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METAL WORKING
金 属 加 工

Metal working machines
The best in quality, value and service

2017/18

Version 1.0

扬州欧普兄弟机械工具有限公司
Yangzhou Euro Brother Machine & Tools Co., Ltd.

欧之星工厂 (Euro Star Factory)



陈军 (董事长)
James Chen (Chairman)

公司简介

扬州欧普集团公司，系一家工贸一体化外向型企业，下设三大生产基地：扬州欧普兄弟机械工具有限公司，中德合资欧普铁玛（扬州）机械有限公司、扬州欧普鼎盛机械有限公司，和一家外贸公司：扬州拓展进出口有限公司。集团员工人数300余人，生产基地4万余平方米，年产能1万台套，年出口总额3亿元人民币，并逐年稳步提升。

扬州欧普兄弟机械工具有限公司执行严谨的工艺流程、严格的品质管理。依据ISO9001质量管理体系，对各类产品进行全面品质管理，确保产品质量的优异。

扬州欧普兄弟机械工具有限公司汇聚国内外技术经验丰富的机械专家和研究人员，拥有国际先进水准的生产设备，生产各种中小型数控加工中心、数控车床、数控铣床、以及各种工业及家用钻铣床、钻床和车床等。我们始终致力于专业服务团队建设。在欧洲、美洲、澳大利亚、中东、东南亚、非洲等区域的大多数国家和地区建立贸易服务网络，我们的产品受到全球各地客户的喜爱。

Company Introduce

As an export-oriented, industry & trade integrated enterprise, Yangzhou Euro Group has three production bases: Yangzhou Euro Brother Machine & Tools Co., Ltd.; China-German joint venture OPTIMUM (Yangzhou) Machinery Co., Ltd.; Yangzhou Oprcraft Machinery Co., Ltd. and one trading company: Yangzhou Developing Import & Export Co., Ltd. With more than 3 0 0 employees and 4 0,0 0 0 square meters production bases Yangzhou Euro Group has a yearly capacity of more than 1 0 0 0 0 sets of different machines and a yearly total export of 3 0 0 million RMB which rises steadily year by year.

Yangzhou Euro Brother Machine & Tools Co., Ltd. carries out strict technical process and quality control. Based on ISO 9 0 0 1 system, it performs a total quality management on its products so that they meet high quality requirements.

With a team of experienced experts and researchers from home and abroad and advanced production equipments, Yangzhou Euro Brother Machine & Tools Co., Ltd produces quality products such as small and medium sized cnc machining centers, cnc lathe, cnc milling machines and milling, drilling and lathe machines for both industrial & home use.

We are always committed to the building of professional service team. We have established the trade & service network in many countries and districts such as Europe, America, Australia, Mid-East, Southeast Asia and Africa, and our products are welcomed by customers from all over the world.

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Accessories	A117
Lamp	A123

欧普铁玛工厂(Optimum Factory)



CNC

MILLING

DRILLING

LATHE

SAW

GRINDER

SHEET WORKING

DRILLING & MILLING MACHINE

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Variable speed machines

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欧普鼎盛工厂 (Opcraft Factory)



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TU2404/2404V/2406V	D7
TU2506/2506V/2807/2807V ..	D9
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TU4210V	D23
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公司产品(Company Produces)

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CNC

MILLING

DRILLING

LATHE

SAW

GRINDER

SHEET WORKING

CNC machines

CNC MACHINE

M2LS	A3
M3HS / M4HS CNC	A5
M4 CNC	A7
F2 CNC	A9
F2 Pro CNC	A11
F3 CNC.....	A13
F3 Pro CNC.....	A15
F4 CNC.....	A17
F80/F80AD CNC.....	A19
F105 CNC	A21
F150 CNC	A23
F151 HSC.....	A25
F120X CNC	A29
F120X Pro CNC	A31
F210/F300 CNC.....	A33
F211 HSC.....	A35
F310.....	A39
F311 HSC.....	A43
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F411 HSC.....	A51
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F500/F600 CNC	A59
F800 CNC	A61
F900 CNC	A63
HF500/HF630/HF800	A65
Toolmaxx tool.....	A67
Magazine.....	A80
Tool post	A81
L28/L28S CNC	A83
L28 HS CNC	A85
L33 HS CNC	A87
L34 HS CNC	A89
L40/L50 CNC	A91
L400 CNC	A93
L44 CNC	A95
L440/L460.....	A97
L500/L520	A101
L560/L660 CNC	A105
S400E/S600 CNC	A107
S400PS/S600PS CNC	A109
S500/S750	A111
SK61128/148/168/198/208.	A115
Accessories	A117
Lamp	A123





CNC Milling machines

CNC MILLING MACHINE

数控铣床 M2LS

可选：

- 广数系统

Optional control:

- GSK system



优质、高效、高性价比

- 三轴滚珠丝杆，带防护
- 三轴伺服驱动
- 前门带安全防护开关
- 冷却系统
- 集中润滑系统

Convincing arguments: quality, efficiency and price

- Ball screw in all three axis with protection
- Three axis with servo drive
- Front door equipped with a safety switch
- With coolant tank
- Central lubricating

标准附件:

- 气动打刀
- 钻接杆 MT2/B16 - M10
- 自动润滑系统
- 冷却系统
- 手持脉冲单元

Standard accessories:

- Pneumatic cylinder
- Drill chuck
- Automatical lubricating system
- Coolant system
- Hand-hold pulse unit

可选附件:

- 58 件套铣夹具
- 平口钳
- 铣刀
- MT2 (4,6,8,10,12) 5 件套弹簧套

Optional accessories:

- 58pcs clamping tool kit
- Vice
- Milling cutter
- 5pcs collet chuck kit

型号	Model	M2LS
产品编号	Code No.	1102100
机床电器	Electric Supply	
总功率	Total connection	2.5KW
主电机功率	Driving motor	1.1KW
冷却泵功率	Coolant pump	40W
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	90-3000RPM
主轴轴线至立柱表面距离	Distance spindle-column	200mm
最大面铣直径	Face milling dimension (Max)	Ø52mm
最大立铣直径	End milling dimension (Max)	Ø20mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	700x180mm
主轴端到工作台面距离	Distance spindle-table	105-365mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	12mm/63mm/3
最大承载重量	Load(Max)	20kg
行程	Travel	
X轴	X axis	480mm
Y轴	Y axis	155mm
Z轴	Z axis	275mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	6000mm/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.04mm
重复定位精度	Repeat positioning accuracy	±0.03mm
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	1590x745x1730mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	1816x996x2054mm
净重/毛重	Net weight/Gross weight	360/420kg
水箱容积	Tank capacity	25L

细节展示 Standard equipment



冷却水箱

- 底座集成水箱
- 水箱容积25升
- Coolant tank
- Coolant tank integrated in the base
- Tank capacity 25 litres

电气箱与驱动器
Electrical -cabinet and drives

CNC MILLING MACHINE

数控铣床 M3HS/M4HS CNC

可选：

- 广数系统

Optional control:

- GSK system



优质、高效、高性价比

- 三轴滚珠丝杆
- 精密可靠的十字工作台，提供了最大面积和最精密的加工表面
- 牢固结实的灰铸铁床身
- 宽泛的转速范围 150-8600rpm
- 西门子变频器 M440
- 前门带安全防护开关
- 自动润滑系统
- Z 轴直线导轨，带配重
- 冷却系统

Convincing arguments: quality, efficiency and price

- Ball screw in all three axis
- Solid, precise cross table, largely dimensioned and precisely machined surface
- Heavy, solid cast iron construction
- Very wide speed range 150-8600rpm
- Siemens inverter M440
- Front door equipped with a safety switch
- Automatical lubricating system
- Linear guiding in the Z-axis with counter weight
- Coolant system

可选附件:

- 58 件套铣床夹具
- 套装铣夹头 (8 件 / 套) MT3 (M3HS CNC)
- ISO40 (M4HS CNC)
- 套装立铣刀 (20 件 / 套)
- 铣床机用平口钳 QG150
- 可转位端面铣刀 ø80mm/MT3
- 立卧两用精密回转工作台 ERT-HV150

Optional accessories:

- 58pcs clamping tool kit
- Milling chuck set (8pcs/set)
- End milling cutter set (20pcs/set)
- Milling vice QG150
- Face milling cutter
- H/V precision rotary table

型号	Model	M3HS	M4HS
产品编号	Code No.	1103100	1104100
机床电器	Electric Supply		
总功率	Total connection	5KW	6KW
主电机功率	Driving motor	2.2KW	3KW
冷却泵功率	Coolant pump	40W	40W
主轴	Spindle		
主轴锥度	Spindle taper	ER32	ER32
主轴转速	Spindle speed	150-8600RPM	150-8600RPM
主轴轴线至立柱表面距离	Distance spindle-column	240mm	275mm
最大面铣直径	Face milling dimension (Max)	Ø75mm	Ø80mm
最大立铣直径	End milling dimension (Max)	Ø30mm	Ø32mm
工作台	Table		
工作台尺寸 (长×宽)	Table length×width	750×210mm	850×240mm
主轴端到工作台面距离	Distance spindle-table	460mm	30-530mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	12mm/63mm/3	18mm/80mm/3
最大承载重量	Load(Max)	50kg	60kg
行程	Travel		
X轴	X axis	430mm	500mm
Y轴	Y axis	200mm	240mm
Z轴	Z axis	450mm	500mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	2000mm/min	6000mm/min
精度	Accuracy		
定位精度	Positioning accuracy	±0.025mm	±0.025mm
重复定位精度	Repeat positioning accuracy	±0.025mm	±0.025mm
尺寸	Dimensions		
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1900×1185×2010mm	1900×1185×2126mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	2030×1290×2280mm	2030×1350×2240mm
净重/毛重	Net weight/Gross weight	760/830KG	800/870kg
水箱容积	Tank capacity	30L	30L

细节展示 Standard equipment



- 自研CNC 4轴控制器
- Self-developed CNC 4-axis controller

CNC MILLING MACHINE

数控铣床 M4 CNC

可选：

- 广数系统

Optional control:

- GSK system



优质、高效与高性价比

- 三轴滚珠丝杠
- 自动润滑系统
- 冷却系统

Convincing arguments: quality, efficiency and price

- Ball screw in all three axis
- Automatical lubricating system
- Coolant system

可选附件:

- 58 件套铣床夹具
- 套装铣夹头 (8 件 / 套) MT3 (M3 CNC)
ISO40 (M4 CNC)
- 套装立铣刀 (20 件 / 套)
- 铣床机用平口钳 QG150
- 可转位端面铣刀 ø80mm/MT3
- 立卧两用精密回转工作台 ERT-HV150

Optional accessories:

- 58pcs clamping tool kit
- Milling chuck set (8pcs/set)
- End milling cutter set (20pcs/set)
- Milling vice QG150
- Face milling cutter
- H/V precision rotary table

型号	Model	M4
产品编号	Code No.	1104000
机床电器	Electric Supply	
总功率	Total connection	5KW
主电机功率	Driving motor	2.2KW
冷却泵功率	Coolant pump	40W
主轴	Spindle	
主轴锥度	Spindle taper	SK40
主轴转速	Spindle speed	150-3100RPM
主轴轴线至立柱表面距离	Distance spindle-column	275mm
最大面铣直径	Face milling dimension (Max)	Ø80mm
最大立铣直径	End milling dimension (Max)	Ø32mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	850x240mm
主轴端到工作台面距离	Distance spindle-table	275mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	18mm/80mm/3
最大承载重量	Load(Max)	60kg
行程	Travel	
X轴	X axis	500mm
Y轴	Y axis	240mm
Z轴	Z axis	500mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	2000mm/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.01mm
重复定位精度	Repeat positioning accuracy	±0.01mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1900X1185X2126mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	2040X1320X2240mm
净重/毛重	Net weight/Gross weight	800/870kg
水箱容积	Tank capacity	30L

细节展示 Standard equipment



- 自研无刷控制器
- Self-developed brushless-controller

CNC MILLING MACHINE

数控铣床 F2 CNC

NEW

可选：
· 广数系统

Optional control:
· GSK system



优质、高效、高性价比

- 三轴滚珠丝杆，带防护
- 三轴伺服驱动
- 前门带安全防护开关
- 冷却系统
- 集中润滑系统

Convincing arguments: quality, efficiency and price

- Ball screw in all three axis with protection
- Three axis with servo drive
- Front door equipped with a safety switch
- With coolant tank
- Central lubricating

标准附件:

- 气动打刀
- 钻接杆 MT2/B16 - M10
- 自动润滑系统
- 冷却系统
- 手持脉冲单元

Standard accessories:

- Pneumatic cylinder
- Drill chuck
- Automatical lubricating system
- Coolant system
- Hand-hold pulse unit

可选附件:

- 58 件套铣夹具
- 平口钳
- 铣刀
- MT2 (4,6,8,10,12) 5 件套弹簧套

Optional accessories:

- 58pcs clamping tool kit
- Vice
- Milling cutter
- 5pcs collet chuck kit

型号	Model	F2
产品编号	Code No.	1102200
机床电器	Electric Supply	
总功率	Total connection	2.5KW
主电机功率	Driving motor	1.1KW
冷却泵功率	Coolant pump	40W
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	90-3000RPM
主轴轴线至立柱表面距离	Distance spindle-column	200mm
最大面铣直径	Face milling dimension (Max)	Ø52mm
最大立铣直径	End milling dimension (Max)	Ø20mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	700x180mm
主轴端到工作台面距离	Distance spindle-table	105-365mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	12mm/63mm/3
最大承载重量	Load(Max)	20KG
行程	Travel	
X轴	X axis	480mm
Y轴	Y axis	155mm
Z轴	Z axis	275mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	6000mm/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.04mm
重复定位精度	Repeat positioning accuracy	±0.03mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1590X745X1900mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	1816x996x2100mm
净重/毛重	Net weight/Gross weight	360/420kg
水箱容积	Tank capacity	25L

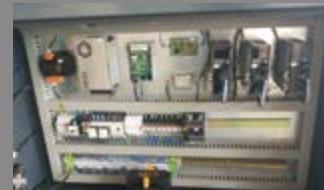
细节展示 Standard equipment



- Z轴电机直连式
- Z axis motor direct connection



- 气动打刀
- Pneumatic cylinder



- 电气箱
- Electrical cabinet

CNC MILLING MACHINE

数控铣床 F 2 PRO CNC



可选：

Optional control:

- 广数系统

- GSK system



优质、高效与高性价比

- 三轴线性导轨、滚珠丝杆
- 三进给轴选用伺服电机
- 欧盟级安全标准
- 选用进口国际品牌元器件
- 自动润滑系统
- 气动打刀、拉刀
- 结构紧凑、易于操作、占地面积小

Convincing arguments: quality, efficiency and price

- Linear guide and ball screw in three axis
- Spindle servo motor
- Conform to European Safety Standards
- Imported components with international brand
- Automatical lubricating system
- Pneumatic cylinder and cutter
- Compact structure, easy for operation and less occupied area

机床技术参数 /Specification

型号	Model	F 2 PRO
产品编号	Code No.	1102300
机床电器	Electric Supply	
总功率	Total connection	3.5 KW
主电机功率	Driving motor	1.1 KW
冷却泵功率	Coolant pump	40 W
电机扭矩(X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	2.4/2.4/2.4 Nm
机床电压	Motor	230 V/50 HZ/1 PH
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	3000 RPM
主轴轴线至立柱表面距离	Distance spindle-column	220 mm
最大面铣直径	Face milling dimension (Max)	Ø40 mm
最大立铣直径	End milling dimension (Max)	Ø25 mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	620x180 mm
主轴端到工作台面距离	Distance spindle-table	20-305 mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	12mm/50mm/3
最大承载重量	Load(Max)	30 KG
行程	Travel	
X轴	X axis	255 mm
Y轴	Y axis	150 mm
Z轴	Z axis	225 mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	6000 m/min
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	1590x965x1890 mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	1816x1116x2108 mm
净重/毛重	Net weight/Gross weight	570/650 kg
水箱容积	Tank capacity	20 L

可选附件 Optional accessories:



- 对刀仪
- Tool-setting gauge



- OPS-30 红外通讯测头系统
- Optical Probe System

CNC MILLING MACHINE

数控铣床 F3 CNC

可选：
· 广数系统

Optional control:
· GSK system



优质、高效与高性价比

- 三轴线性导轨
- 三轴滚珠丝杠
- 各门带安全开关，气路带安全阀
- 自动润滑系统
- 冷却系统
- 主轴伺服电机及驱动
- 气动打刀，拉刀
- 结构紧凑，易于操作，占地面积小

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Ball screw in all three axis
- Each door equipped with a safety switch and air-line with safety valve
- Automatical lubricating system
- Coolant system
- Spindle servo motor and drive
- Pneumatic cylinder and cutter
- Compact structure, easy for operation and less occupied area

型号	Model	F3
产品编号	Code No.	1103200
机床电器	Electric Supply	
总功率	Total connection	4KW
主电机功率	Driving motor	1.5KW
冷却泵功率	Coolant pump	95W
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	50-4000RPM
主轴轴线至立柱表面距离	Distance spindle-column	220mm
最大面铣直径	Face milling dimension (Max)	Ø40mm
最大立铣直径	End milling dimension (Max)	Ø25mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	620x180mm
主轴端到工作台面距离	Distance spindle-table	20-305mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	12mm/50mm/3
最大承载重量	Load(Max)	30KG
行程	Travel	
X轴	X axis	355mm
Y轴	Y axis	190mm
Z轴	Z axis	245mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	6000mm/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.02mm
重复定位精度	Repeat positioning accuracy	±0.01mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1600x1530x2005mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	1720X1720X1950mm
净重/毛重	Net weight/Gross weight	1100/1200kg
水箱容积	Tank capacity	50L

细节展示 Standard equipment



- 电箱宽大，易于维护
- Wide electrical-cabinet for easy maintenance



- 西门子808D控制器
- Siemens 808D control system

CNC MILLING MACHINE

数控铣床 F3 PRO CNC



可选：

Optional control:

- 广数系统

- GSK system



优质、高效与高性价比

- 三轴线性导轨、滚珠丝杆
- 三进给轴选用伺服电机
- 欧盟级安全标准
- 选用进口国际品牌元器件
- 自动润滑系统
- 气动打刀、拉刀
- 结构紧凑、易于操作、占地面积小

Convincing arguments: quality, efficiency and price

- Linear guide and ball screw in three axis
- Spindle servo motor
- Conform to European Safety Standards
- Imported components with international brand
- Automatical lubricating system
- Pneumatic cylinder and cutter
- Compact structure, easy for operation and less occupied area

机床技术参数 /Specification

型号	Model	F 3 PRO
产品编号	Code No.	1103300
机床电器	Electric Supply	
总功率	Total connection	4 KW
主电机功率	Driving motor	1.5 KW
冷却泵功率	Coolant pump	95W
电机扭矩(X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	2.4/2.4/2.4 Nm
机床电压	Motor	400 V/50 HZ/3 PH
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	4000 RPM
主轴轴线至立柱表面距离	Distance spindle-column	220 mm
最大面铣直径	Face milling dimension (Max)	Ø40mm
最大立铣直径	End milling dimension (Max)	Ø25mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	620x180 mm
主轴端到工作台面距离	Distance spindle-table	40-277 mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	12mm/50mm/3
最大承载重量	Load(Max)	30 KG
行程	Travel	
X轴	X axis	355 mm
Y轴	Y axis	170 mm
Z轴	Z axis	237 mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	6000 m/min
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	1410x1331x1817 mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	1510x1430x2040 mm
净重/毛重	Net weight/Gross weight	650/770 kg
水箱容积	Tank capacity	45 L

可选附件 Optional accessories:



- 对刀仪
- Tool-setting gauge



- OPS-30 红外通讯测头系统
- Optical Probe System

CNC MACHINE CENTER

小型立式加工中心 F4 CNC (with tool changer)



优质、高效与高性价比

- 三轴线性导轨
- 三轴伺服驱动
- 门带安全开关
- 三轴滚珠丝杠
- 集中润滑系统
- 冷却系统
- 结构紧凑，易于操作

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Servo-drive in all three axis
- Door equipped with a safety switch
- Ball screw in all three axis
- Central lubricating
- Coolant system
- Compact structure, easy for operation

可选附件 Optional accessories:



- 台湾进口第四轴(回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- 对刀仪
- Tool-setting gauge



- OPS-30 红外通讯测头系统
- Optical Probe System

型号	Model	F4
产品编号	Code No.	1104200
机床电器	Electric Supply	
总功率	Total connection	6KW
主电机功率	Driving motor	2.2KW
冷却泵功率	Coolant pump	95W
电机扭矩(X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	3.3/5/5Nm
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	50-10000RPM
主轴轴线至立柱表面距离	Distance spindle-column	280mm
最大面铣直径	Face milling dimension (Max)	Ø65mm
最大立铣直径	End milling dimension (Max)	Ø30mm
刀库	Magazine	
刀库容量	Capacity	8 tools Ø 70mm (with adjacent tool) Ø110mm
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	
最大刀具重量	Tool weight (Max)	6KG
换刀时间	Time-tool changing	6 Seconds
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	690x210mm
主轴端到工作台面距离	Distance spindle-table	90-390mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	16mm/63mm/3
最大承载重量	Load(Max)	100KG
行程	Travel	
X轴	X axis	310mm
Y轴	Y axis	200mm
Z轴	Z axis	300mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	10000mm/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.02mm
重复定位精度	Repeat positioning accuracy	±0.01mm
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	1800x1641x2000mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	2020x1840x2150mm
净重/毛重	Net weight/Gross weight	1400/1520kg
水箱容积	Tank capacity	50L

细节展示 Standard equipment



- 电箱宽大，易于维护
- Wide electrical-cabinet for easy maintenance



- 斗笠式刀库
- Magazine tool-changer



- 西门子808D控制器
- Siemens 808D control system

CNC MACHINE CENTER

小型立式加工中心 F80/F80AD CNC

F80 CNC :
西门子808D系统
主轴功率2.2 KW
电机扭矩5/5/6 Nm
第三方主轴

F80 CNC:
Siemens 808D system
Spindle power 2.2 KW
Motor torque 5/5/6 Nm
Spindle from third party

F80AD CNC :
808D advanced system
主轴功率3.7 KW
电机扭矩3.5/6/6 Nm
西门子全套

可选：
• 广数系统

Optional control:
• GSK system

F80AD CNC :
808D advanced system
Spindle power 3.7 KW
Motor torque 3.5/6/6 Nm
Full set of parts from Siemens



优质、高效与高性价比

- 三轴线性导轨
- 三轴伺服驱动
- 门带安全开关
- 三轴滚珠丝杠
- 集中润滑系统
- 冷却系统
- 结构紧凑，易于操作

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Servo-drive in all three axis
- Door equipped with a safety switch
- Ball screw in all three axis
- Central lubricating
- Coolant system
- Compact structure, easy for operation

可选附件 Optional accessories:



- 台湾进口第四轴(回转工作台)
- The fourth axis imported from Taiwan (Rotary table)

- 对刀仪
- Tool-setting gauge

- OPS-30 红外通讯测头系统
- Optical Probe System

型号	Model	F8o	F8oAD
产品编号	Code No.	1108000	1108100
机床电器	Electric Supply		
总功率	Total connection	7KW	7KW
主电机功率	Driving motor	2.2KW	3.7KW
冷却泵功率	Coolant pump	370W	370W
电机扭矩(X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	5/5/6Nm	3.5/6/6Nm
主轴	Spindle		
主轴锥度	Spindle taper	BT30	BT30
主轴转速	Spindle speed	50-10000RPM	50-10000RPM
主轴轴线至立柱表面距离	Distance spindle-column	315mm	315mm
最大面铣直径	Face milling dimension (Max)	Ø65mm	Ø65mm
最大立铣直径	End milling dimension (Max)	Ø30mm	Ø30mm
刀库	Magazine		
刀库容量	Capacity	10 tools Ø 104mm (with adjacent tool) Ø160mm	10 tools Ø 104mm (with adjacent tool) Ø160mm
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)		
最大刀具重量	Tool weight (Max)	6KG	6KG
换刀时间	Time-tool changing	6 Seconds	6 Seconds
工作台	Table		
工作台尺寸 (长×宽)	Table length×width	800×260mm	800×260mm
主轴端到工作台面距离	Distance spindle-table	75-475mm	75-475mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	16mm/50mm/5	16mm/50mm/5
最大承载重量	Load(Max)	150KG	150KG
行程	Travel		
X轴	X axis	400mm	400mm
Y轴	Y axis	230mm	230mm
Z轴	Z axis	400mm	400mm
快移速度(X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	10000mm/min	10000mm/min
精度	Accuracy		
定位精度	Positioning accuracy	±0.02mm	±0.02mm
重复定位精度	Repeat positioning accuracy	±0.01mm	±0.01mm
尺寸	Dimensions		
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1925×1679×2070mm	1925×1679×2070mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	2020×1780×2220mm	2020×1780×2220mm
净重/毛重	Net weight/Gross weight	1700/1900KG	1700/1900KG
水箱容积	Tank capacity	160L	160L

细节展示 Standard equipment



- 电箱宽大，易于维护
- Wide electrical-cabinet for easy maintenance



- 斗笠式刀库(10把刀)
- Magazine tool-changer (10 tools)



- 西门子808D控制器
- Siemens 808D control system

CNC MACHINE CENTER

小型立式加工中心 F105 CNC

可选：

- 广数系统
- FANUC Oi-mate
- GSK system
- FANUC Oi-mate

Optional control:



优质、高效、高性价比

- 12 把斗笠式刀库
- 电子手轮
- 冷却系统
- 200 升容量的冷却水箱
- 自动润滑系统

Convincing arguments: quality, efficiency and price

- 12 pcs magazine tool-changer
- Electric hand-wheel
- Coolant system
- Coolant tank with capacity of 200 litres
- Automatical lubricating system

可选附件 Optional accessories:



- 主轴中心出水
- 压力 20 帕
- 过滤精度为 25μm

- Water out from spindle center
- Press 20 Bars
- Filtering precision is 25μm

型号	Model	F105
产品编号	Code No.	1110500
机床电器	Electric Supply	
总功率	Total connection	10kW
主电机功率	Driving motor	5.5kW
冷却泵功率	Coolant pump	370W
电机扭矩 (X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	6/10/10Nm
主轴	Spindle	
主轴锥度	Spindle taper	BT40
主轴转速	Spindle speed	10-8000RPM
主轴轴线至立柱表面距离	Distance spindle-column	410mm
最大面铣直径	Face milling dimension (Max)	Ø75mm
最大立铣直径	End milling dimension (Max)	Ø35mm
刀库	Magazine	
刀库容量	Capacity	12 tools Ø 104mm (with adjacent tool) Ø 160mm
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	
最大刀具重量	Tool weight (Max)	6KG
换刀时间	Time-tool changing	6 Seconds
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	800x350mm
主轴端到工作台面距离	Distance spindle-table	100-560mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	16mm/50mm/5
最大承载重量	Load(Max)	300KG
行程	Travel	
X轴	X axis	550mm
Y轴	Y axis	330mm
Z轴	Z axis	460mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	15m/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.01mm
重复定位精度	Repeat positioning accuracy	±0.008mm
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	2161x1856x2200mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	2238x1981x2215mm
净重/毛重	Net weight/Gross weight	2800/3200kg
水箱容积	Tank capacity	200L

可选附件 Optional accessories:



- 台湾进口第四轴 (回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通讯测头系统
- Optical Probe System



- 对刀仪
- Tool-setting gauge



- 排屑器
- Chip conveyor

CNC MACHINE CENTER

小型立式加工中心 F150 CNC



- 斗笠式刀库 16把刀
- Turntable style tool magazine 16tools

- 圆盘式刀库(可选) 24把刀
- Disc style tool magazine (optional) 24 tools

可选 :

- 广数系统
- FANUC Oi-mate
- GSK system
- FANUC Oi-mate

Optional control:



SIEMENS 808D basic control

西门子808D控制器

优质、高效、高性价比

- 16 把斗笠式刀库
- 电子手轮
- 冷却系统
- 210 升容量的冷却水箱
- 自动润滑系统

Convincing arguments: quality, efficiency and price

- 16 pcs magazine tool-changer
- Electric hand-wheel
- Coolant system
- Coolant tank with capacity of 210 litres
- Automatical lubricating system

可选附件 Optional accessories:



- 主轴中心出水
- 压力 20 帕
- 过滤精度为25μm



- Water out from spindle center
- Press 20 Bars
- Filtering precision is 25μm

型号	Model	F150
产品编号	Code No.	1115000
机床电器	Electric Supply	
总功率	Total connection	12KW
主电机功率	Driving motor	7.5KW
冷却泵功率	Coolant pump	370W
电机扭矩(X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	6/11/11Nm
主轴	Spindle	
主轴锥度	Spindle taper	BT40
主轴转速	Spindle speed	10-10000RPM
主轴轴线至立柱表面距离	Distance spindle-column	575mm
最大面铣直径	Face milling dimension (Max)	Ø80mm
最大立铣直径	End milling dimension (Max)	Ø38mm
刀库	Magazine	
刀库容量	Capacity	16 tools
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	Ø 78mm(with adjacent tool) Ø120mm
最大刀具重量	Tool weight (Max)	8KG
换刀时间	Time-tool changing	5 Seconds
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	960x450mm
主轴端到工作台面距离	Distance spindle-table	100-600mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	18mm/80mm/5
最大承载重量	Load(Max)	400KG
行程	Travel	
X轴	X axis	650mm
Y轴	Y axis	500mm
Z轴	Z axis	500mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	30m/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.01mm
重复定位精度	Repeat positioning accuracy	±0.005mm
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	1760x1880x2200mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	2292x2268x2220mm
净重/毛重	Net weight/Gross weight	3500/4000kg
水箱容积	Tank capacity	210L

可选附件 Optional accessories:



- 台湾进口第四轴(回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通讯测头系统
- Optical Probe System



- 对刀仪
- Tool-setting gauge



- 排屑器
- Chip conveyor

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line

The OPTIMUM PREMIUM CNC vertical machining centre combines maximum productivity with low outlay

- ▶ Heavy duty version
- ▶ High productivity
- ▶ High reliability
- ▶ FEM analysed machine frame to guarantee optimal machine stability
- ▶ Linear guide for fast rapid motion speeds on all axes
- ▶ Precision ground, prestressed, high-performance ball screws ($\varnothing 36 \text{ mm} \times P16 \times C3$) on all axes
- ▶ Tool changer, double arm grab with 32 tool slots
- ▶ Optionally with spindle speed up to 12,000 rpm or 15,000 rpm
- ▶ Torsion free machine base thanks to strong ribbing
- ▶ Quality meehanite cast body
- ▶ Cleaning gun
- ▶ Chip conveyor, belt-type
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Coolant unit with 210 litre coolant tank and chip flushing system
- ▶ Chip carriage
- ▶ Spindle oil cooler
- ▶ Closed cabinet with integrated heat exchanger; optimal temperature even in case of high ambient temperatures; prevents dirt particle penetration
- ▶ Telescopic guide rail covers on all three axes
- ▶ Two-year SIEMENS warranty included
- ▶ "Warranty extension" on page 106

INCLUDING

- Safety integrated (see page 96)
- Residual material detection
- ShopMill work step programming
- Managing network drives
- 3-D simulation
- Simultaneous recording

SIEMENS control SINUMERIK 828D

 Information "SINUMERIK 828D" on page 106

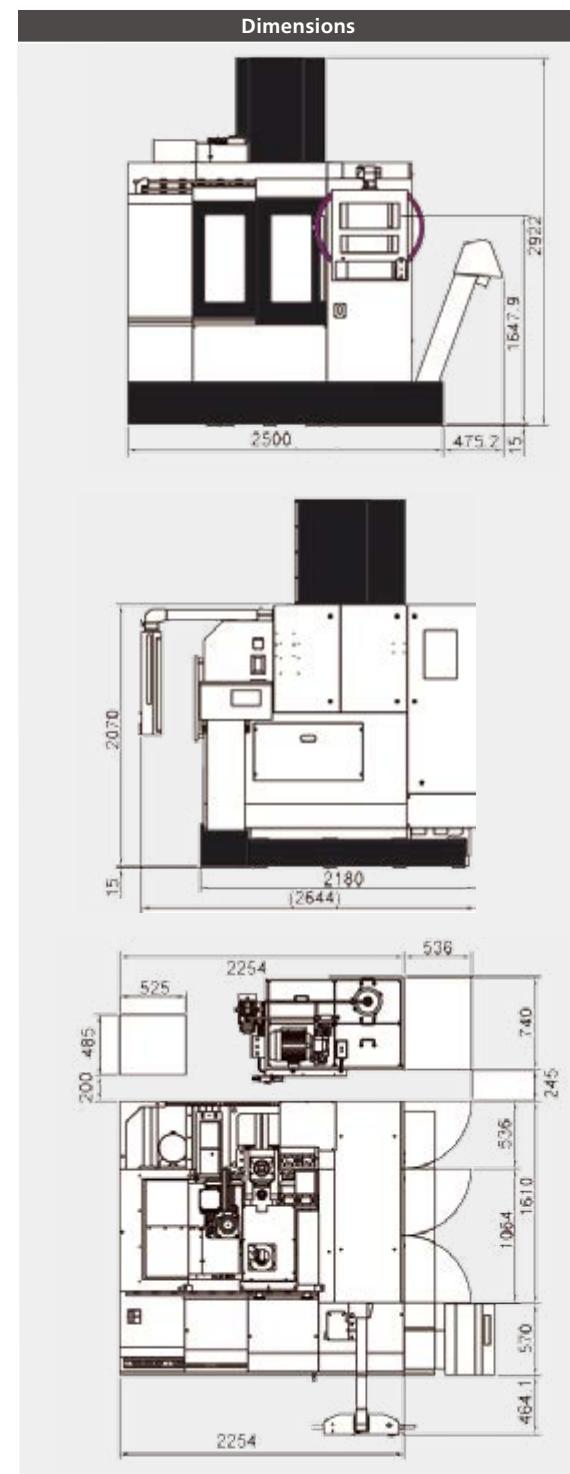


Fig. F 151 HSC with optional fourth axis

Including spindle oil cooler

Model	F 151HSC 12
Article no.	3511310
Model	F 151HSC 15
Article no.	3511312
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected load	25 KVA
Milling spindle	
Drive motor	15 kW (S1 operation 11 kW)
Drive motor torque	80 Nm
Spindle taper	SK 40 DIN 69871
Milling precision	
Repetition accuracy	± 0.005 mm
Positioning accuracy	± 0.005 mm
Tool changer	
Number of tool slots	32 tools
Max. tool diameter	80 mm
Max. tool length	300 mm
Max. tool weight	8 kg
Tool change time	2 seconds
Tool to tool	
Strokes	
X axis	800 mm
Y axis	500 mm
Z-axis	500 mm
Axis feed drive	
Milling feed X, Y, Z axis	12,000 mm/min.
Rapid motion X, Y, Z axis	32,000 mm/min.
Speed range	
Speed F 151HSC 12	12,000 rpm
Speed F 151HSC 15	15,000 rpm
Pneumatic system	
Air pressure	6 bar
Air consumption	400 l/min.
Milling table	
Clearance spindle to table	100 – 600 mm
Throat	595 mm
Table length x width	900 x 520 mm
T-slot size/amount/distance	16 mm / 5 / 63 mm
Max. load	450 kg
Dimensions	
Length x width x height	2,500 x 2,644 x 2,922 mm
Overall weight	5,000 kg

Starter kit SK 40	3536109
Comprises:	
1 pc. milling head holder	
1 pc. chuck	
2 pcs. each Weldon 6 / 20 mm	
1 pc. each Weldon 8 / 10 / 12 / 16 mm	
1 pc. adapter SK 40 to MT 3	
3 pcs. collet chuck ER 32	
1 pc. spanner ER 32	
18 pcs. collet ER 32	
1 pc. height adjuster	
Assembly and tool adjustment gauge	
15 pcs. pull studs	
1 pc. taper wiper	
"Starter set SK40/DIN 69871" on page 117	



"CNC introductory training" on page 96

Standard equipment
• Coolant gun
• Chip flushing system
• Halogen lamp
• Six machine feet
• Spindle oil cooler
• Chip conveyor, belt-type
• Chip carriage
• RS232 / ETHERNET
• Heat exchanger
• 20 bar high pressure internal pump
• Automatic lubrication system

OPTI^{mill}[®] F 151 HSC

STANDARD EQUIPMENT

Cast body

- Quality cast meehanite



Spindle

- SK 40 DIN 69871
- Spindle speed
- optionally 12,000 rpm or 15,000 rpm

Base body

- Quality cast with ribbed design

Servomotors

- Mounted directly on the ball screw
- Improves positioning accuracy

Linear guide

- Fast rapid motion speeds 32,000 rpm on all three axes

Machine feet

- 6 pcs.
- Optimal machine levelling



Heat exchanger

- Closed cabinet with smart cooling management
- Optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



Tool changer system

- Tool changer, double arm grab with 32 tool slots
- Max. tool length 300 mm



Handwheel

- Electronic
- Portable
- Substantially facilitates running in of programs
- Emergency stop mushroom button
- Confirm button



Automatic lubrication system

- Float switch measures the oil quantity. If the oil level is too low, an acoustic signal is output, thus preventing machine damage



Milling table

- Solid, precise and generously dimensioned
- Workpiece mounting surface 900 x 520 mm
- Precision ground
- Five T-slots



Laser measuring

- Guaranteed repetition and positioning accuracy

SPECIAL EQUIPMENT



1 Coolant true spindle



2 Fourth and fifth axis



3 Tool probe



4 Tool control system



5 Air conditioner



8 License



7 Power transformer



6 Oil skimmer



1	351131001	Coolant true spindle CTS 20 bar	• External unit; tank capacity 165 litres
	351131002	Coolant true spindle CTS 70 bar	• External unit; tank capacity 165 litres
2	351131007	Fourth axis complete kit	• Including three-jaw lathe chuck Ø 150 mm, tailstock, SIEMENS motor, assembly • Safety software for collision avoidance
	351131005	Machine preparation - fourth axis	
	351131008	Fourth and fifth axis complete kit	• Including three-jaw lathe chuck Ø 175 mm, tailstock, SIEMENS motor, assembly
	351131006	Machine preparation - fourth and fifth axis	
	<p> "Technical data fourth axis and fifth axis" on page 48</p>		
3	9001041	Touch probe for tool measurement, Renishaw OTS	• Optical transmission module OMI-2T • OTS tool setter for tool measurement • Measuring cycle license • Assembly
	9001040	Touch probe with optical signal transmission, Renishaw OMP40	• OMP40-2 probe with optical recording, OMP 40/400 with SK40 • Straight probe insert PS3-1C • Optical transmission module OMI-2T • Measuring cycle license • Installation
	9001042	Renishaw OTS probe and Renishaw OMP40-2 probe	• OMP40-2 probe with optical recording, OMP 40/400 with SK40 • Optical transmission module OMI-2T • OTS tool setter for tool measurement • Measuring cycle license • Installation
4	351131015	Zero contact laser tool control system, Renishaw NC4	• Compact, two-axis, touchless tool control system • Only one M command required
	351131018	Machine preparation Renishaw NC4	
5	Rapid motion X, Y, Z axis 48,000 mm/min.		• Instead of standard equipment > spindle 32,000 mm/min.
	351131009	Air conditioner	• Instead of standard equipment > heat exchanger
6	351131003	Oil skimmer	• Rotary disc removes oil escaping from the coolant • Capacity: 1 litre per hour
	351131004	Power transformer	• for special voltages. Weight 147 kg
8	9001050	Measuring cycle license	• SIEMENS Steuerung 828D/840D sl
	9001051	Software DXF-Viewer/Reader	• from Version 4,7
	9001056	Top surface for Siemens control	• from Version 4,7

CNC MACHINE CENTER

立式加工中心 F 120X CNC

NEW

可选：

- 广数系统
- FANUC Oi-mate

Optional control:

- GSK system
- FANUC Oi-mate



主轴最高转速 16000 rpm
High speed spindle 16000 rpm

16把斗笠式刀库
16 pcs Tool changer



优质、高效、高性价比

- 高强度树脂砂铸件，床身稳定可靠
- 欧盟级安全标准
- 进口线轨、滚珠丝杆、精密螺母，高精度主轴轴承
- 16 把伞型刀库
- 配西门子 828D 系统及全套西门子驱动电机，实现高精度、高性能
- 机床配自动润滑系统、自动排屑机构等
- 高速主轴、高速进给，提高加工效率
- 机床选配功能丰富，可满足不同客户的要求

Convincing arguments: quality, efficiency and price

- Strong resin sand casting with lathe bed more stable and reliable
- Conform to European Safety Standards
- Imported linear-guide, ball-screw, precision-nut and high-precision spindle bearing
- 16 pcs of tool-changer
- Siemens 828D numerical control system and full-set of Siemens driver-motor which can realize high-precision and high-performance
- Automatic lubricating system and automatic chip conveyor etc
- High-speed spindle, high-speed feed which can improve the machining efficiency
- For optional have rich function which can satisfy the requirement of various customers

机床技术参数 /Specification

型号	Model	F120X
产品编号	Code No.	1112000
机床电器	Electric Supply	
总功率	Total connection	15 KW
主电机功率	Driving motor	4.8 KW
冷却泵功率	Coolant pump	370W
电机扭矩 (X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	11/11/16 Nm
机床电压	Motor	400 V/50 HZ/3 PH
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	16000 RPM
主轴轴线至立柱表面距离	Distance spindle-column	425 mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	650x400 mm
主轴端到工作台面距离	Distance spindle-table	130-410 mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	14mm/125mm/3
最大承载重量	Load(Max)	250 KG
行程	Travel	
X轴	X axis	520 mm
Y轴	Y axis	400 mm
Z轴	Z axis	280 mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	40 m/min
刀库	Magazine	
刀库容量	Capacity	16PCS
最大刀具重量	Tool weight (Max)	3 KG 100mm(相邻) 140mm(间隔)
刀具最大尺寸	Tool diameter (Max)	
换刀时间	Time-tool changing	0.4 S
精度	Accuracy	
定位精度	Positioning accuracy	± 0.01 mm
重复定位精度	Repeat positioning accuracy	± 0.006 mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1990x1961x2135 mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	2017x2030x2222 mm
净重/毛重	Net weight/Gross weight	2400/2700 kg
水箱容积	Tank capacity	180 L

CNC

可选附件 Optional accessories:



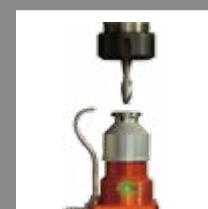
- 主轴中心出水
- Water out from spindle center



- 台湾进口第四轴 (回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通讯测头系统
- Optical Probe System



- 对刀仪
- Tool-setting gauge



- 排屑器
- Chip conveyor

CNC MACHINE CENTER

立式加工中心 F120X PRO CNC



可选：

- 广数系统
- FANUC Oi-mate
- GSK system
- FANUC Oi-mate

Optional control:



优质、高效、高性价比

- 西门子 828D PPU290 大触摸屏
- 安全集成
- 动平衡后的 16000rpm 主轴
- 西门子大功率 12KW 主轴
- 40m/min 进给速度

Convincing arguments: quality, efficiency and price

- Siemens 828D PPU290 system with big touch screen
- Safety integration
- 16000rpm spindle after balance
- Big-power 12KW spindle from Siemens
- Feed speed of 40m/min

机床技术参数 /Specification

型号	Model	F 120X Pro
产品编号	Code No.	1112100
机床电器	Electric Supply	
总功率	Total connection	22 KW
主电机功率	Driving motor	12 KW
冷却泵功率	Coolant pump	370W
电机扭矩 (X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	14/14/21 Nm
机床电压	Motor	380 V
主轴	Spindle	
主轴锥度	Spindle taper	BT30
主轴转速	Spindle speed	16000 RPM
主轴轴线至立柱表面距离	Distance spindle-column	400 mm
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	650x400 mm
主轴端到工作台面距离	Distance spindle-table	150-450 mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	14mm/125mm/3
最大承载重量	Load(Max)	250 KG
行程	Travel	
X轴	X axis	500 mm
Y轴	Y axis	400 mm
Z轴	Z axis	300 mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	40 m/min
刀库	Magazine	
刀库容量	Capacity	16PCS
最大刀具重量	Tool weight (Max)	3 KG 100mm(相邻) 140mm(间隔)
刀具最大尺寸	Tool diameter (Max)	
换刀时间	Time-tool changing	0.5 S
精度	Accuracy	
定位精度	Positioning accuracy	± 0.01 mm
重复定位精度	Repeat positioning accuracy	± 0.006 mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1700X2125X2150
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	2500X2235X2450
净重/毛重	Net weight/Gross weight	3800/4100 kg
水箱容积	Tank capacity	120 L

CNC

可选附件 Optional accessories:



- 主轴中心出水
- Water out from spindle center



- 台湾进口第四轴(回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通讯测头系统
- Optical Probe System



- 对刀仪
- Tool-setting gauge



- 排屑器
- Chip conveyor

CNC MACHINE CENTER

立式加工中心 F210/F300 CNC

可选：

- 广数系统
- GSK system
- FANUC Oi-mate
- FANUC Oi-mate

Optional control:



F 210



F 300

优质、高效、高性价比

- 三轴直线导轨
- 三轴滚珠丝杆
- 机床自动润滑
- 内置工作灯 / 冷却装置

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Ball screw in all three axis
- Automatical lubricating system
- Built-in working lamp/coolant system

可选附件 Optional accessories:



- 主轴中心出水
- 压力 20 帕
- 过滤精度为 25μm



- Water out from spindle center
- Press 20 Bars
- Filtering precision is 25μm

型号	Model	F210	F300
产品编号	Code No.	1121000	1130000
机床电器	Electric Supply		
总功率	Total connection	18KW	21KW
主电机功率	Driving motor	9KW	9KW
冷却泵功率	Coolant pump	370W	370W
电机扭矩 (X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	8/8/11Nm	16/16/16Nm
主轴	Spindle		
主轴锥度	Spindle taper	BT40	BT40
主轴转速	Spindle speed	10-8000RPM	10-8000RPM
主轴轴线至立柱表面距离	Distance spindle-column	561mm	570mm
最大面铣直径	Face milling dimension (Max)	Ø85mm	Ø85mm
最大立铣直径	End milling dimension (Max)	Ø42mm	Ø42mm
刀库	Magazine		
刀库容量	Capacity	24 tools	24 tools
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	Ø 78mm (with adjacent tool) Ø120mm	Ø 78mm (with adjacent tool) Ø120mm
最大刀具重量	Tool weight (Max)	8KG	8KG
换刀时间	Time-tool changing	3 Seconds	2.5 Seconds
工作台	Table		
工作台尺寸 (长×宽)	Table length×width	1050×500mm	1000x500mm
主轴端到工作台面距离	Distance spindle-table	110-660mm	120-720mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	18mm/90mm/5	18mm/84mm/5
最大承载重量	Load(Max)	450KG	800KG
行程	Travel		
X轴	X axis	800mm	900mm
Y轴	Y axis	500mm	550mm
Z轴	Z axis	550mm	600mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	24m/min	24m/min
精度	Accuracy		
定位精度	Positioning accuracy	±0.01mm	±0.01mm
重复定位精度	Repeat positioning accuracy	±0.005mm	±0.005mm
尺寸	Dimensions		
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	2350×2120×2641mm	2850x2450x2645mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	2750×2250×2525mm	3150x2600x2850mm
净重/毛重	Net weight/Gross weight	5000/5500KG	5200/6000kg
水箱容积	Tank capacity	250L	250L

可选附件 Optional accessories:



- 台湾进口第四轴 (回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通
讯测头系统
- Optical Probe
System



- 对刀仪
- Tool-setting gauge



- 排屑器
- Chip conveyor

OPTI^{mill}[®] F 211 HSC

PREMIUM
line

The OPTIMUM PREMIUM CNC vertical machining centre offers the best preconditions for highly productive machining and precise machining results

- ▶ Heavy duty version
- ▶ High productivity
- ▶ FEM analysed machine frame to guarantee optimal machine stability
- ▶ Linear guide for fast rapid motion speeds on all axes
- ▶ Tool changer, double arm grab with 32 tool slots
- ▶ Optionally with spindle speed up to 12,000 rpm or 15,000 rpm
- ▶ High reliability
- ▶ Torsion free machine base thanks to strong ribbing
- ▶ Quality meehanite cast body
- ▶ Precision ground, prestressed, high-performance ball screws (\varnothing 36 mm x P16 x C3) on all axes
- ▶ Cleaning gun
- ▶ Chip conveyor, belt-type
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Integrated coolant unit with 210 litre coolant tank and chip flushing system
- ▶ Chip carriage
- ▶ Closed cabinet with integrated heat exchanger; optimal temperature even in case of high ambient temperatures; prevents dirt particle penetration
- ▶ Oil cooling of ball screws
- ▶ Spindle oil cooler
- ▶ Telescopic guide rail covers on all three axes
- ▶ Two-year SIEMENS warranty included
- ▶ "Warranty extension" on page 106

INCLUDING

- Safety integrated (see page 96)
- Residual material detection
- ShopMill work step programming
- Managing network drives
- 3-D simulation
- Simultaneous recording

SIEMENS control

SINUMERIK 828D

 Information "SINUMERIK 828D" on page 106

PREMIUM

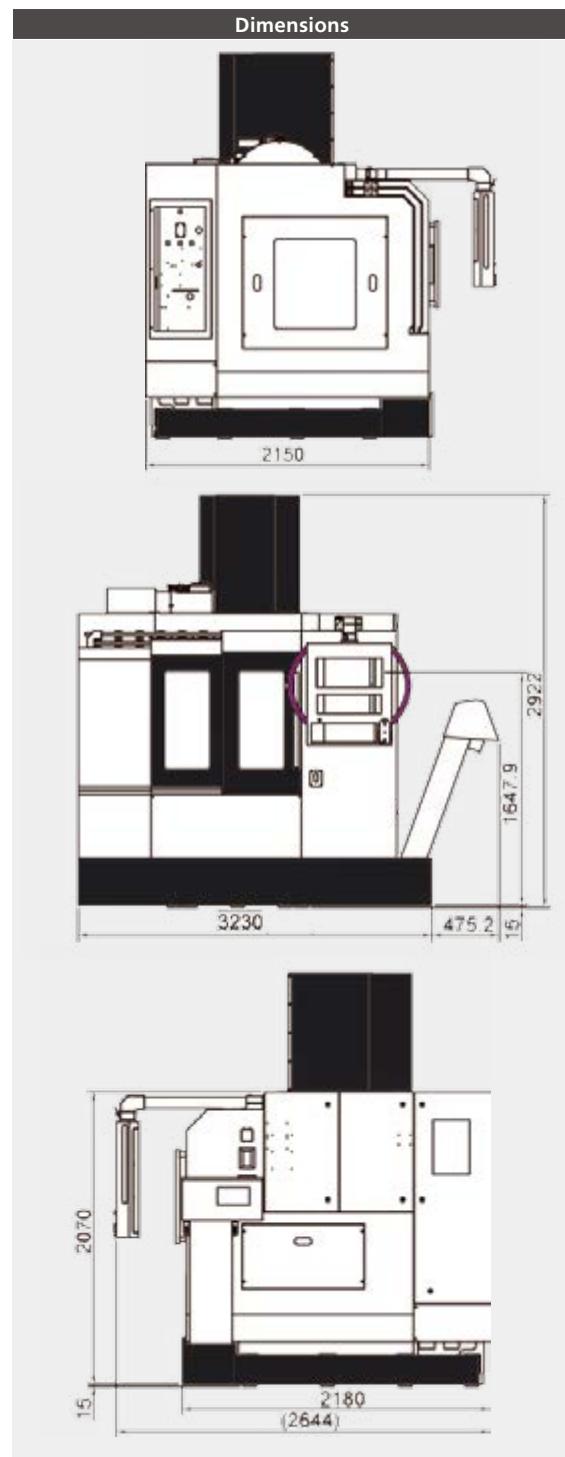


Fig. F 211 HSC with optional fourth axis (option)

Model	F 211HSC 12
Article no.	3511320
Model	F 211HSC 15
Article no.	3511322
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected load	44 KVA
Milling spindle	
Drive motor	11 kW / 15 kW
Drive motor torque	53 Nm
Spindle taper	SK 40 DIN 69871
Milling precision	
Repetition accuracy	± 0.005 mm
Positioning accuracy	± 0.005 mm
Tool changer	
Number of tool slots	32 tools
Max. tool diameter	80 mm
Max. tool length	300 mm
Max. tool weight	8 kg
Tool change time	
Tool to tool	2 seconds
Strokes	
X axis	1,000 mm
Y axis	560 mm
Z-axis	550 mm
Axis feed drive	
Milling feed X, Y, Z axis	12,000 mm/min.
Rapid motion X, Y, Z axis	32,000 mm/min.
Speed range	
Speed F 211HSC 12	12,000 rpm
Speed F 211HSC 15	15,000 rpm
Pneumatic system	
Air pressure	6 bar
Air consumption	400 l/min.
Milling table	
Clearance spindle to table	100 – 650 mm
Throat	595 mm
Table length x width	1,200 x 520 mm
T-slot size/amount/distance	16 mm / 5 / 63 mm
Max. load	800 kg
Dimensions	
Length x width x height	3,230 x 2,644 x 2,972 mm
Overall weight	5,200 kg

Starter set	SK 40 / DIN 69871
Article no.	3536109
 "Starter set SK40/DIN 69871" on page 117	

Standard equipment
• SINUMERIK Operate
• Coolant gun
• Chip flushing system
• Halogen lamp
• Six machine feet
• Spindle oil cooler
• Chip conveyor, belt-type
• Chip carriage
• RS232 / ETHERNET
• Heat exchanger
• Coolant true spindle 20 bar internal
• Oil cooling of ball screws
• Automatic lubrication system



- We urgently recommend initial training by our qualified staff.
"CNC introductory training" on page 96

OPTI^{mill}[®] F 2II HSC

STANDARD EQUIPMENT

Cast body

- Quality cast meehanite

Spindle

- SK 40 DIN 69871
- Spindle speed
- optionally 12,000 rpm or
- 15,000 rpm

Base body

- Quality cast with ribbed design



Servomotors

- Mounted directly on the ball screw
- Improves positioning accuracy

Linear guide

- Fast rapid motion speeds 32,000 rpm on all three axes

Machine feet

- Optimal machine levelling



Heat exchanger

- Closed cabinet with smart cooling management
- Optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



Tool changer system

- Tool changer, double arm grab with 32 tool slots
- Max. tool length 300 mm



Handwheel

- Electronic
- Portable
- Substantially facilitates running in of programs
- Emergency stop mushroom button
- Confirm button



Automatic lubrication system

- Float switch measures the oil quantity. If the oil level is too low, an acoustic signal is output, thus preventing machine damage



Milling table

- Solid, precise and generously dimensioned
- Workpiece mounting surface 900 x 520 mm
- Precision ground
- Five T-slots

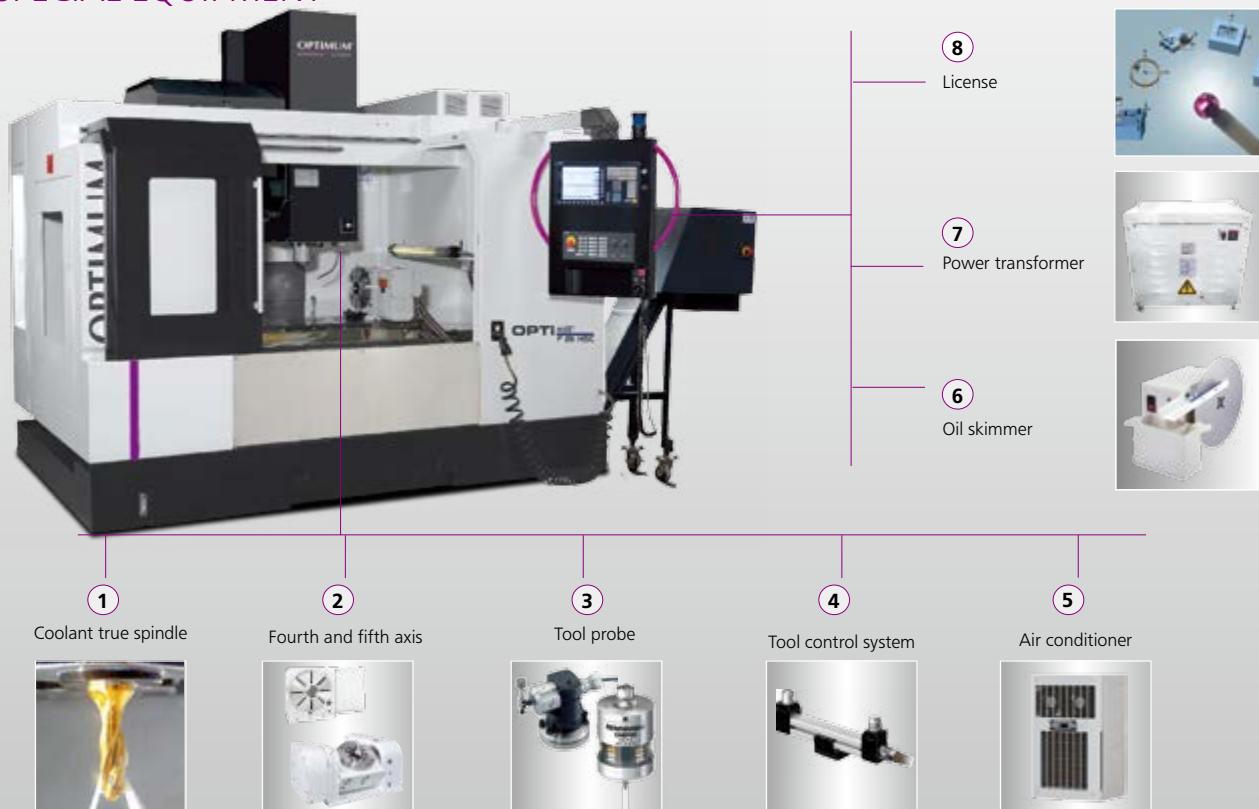


Laser measuring

- Guaranteed repetition and positioning accuracy

Special equipment can only be ordered ex works. Contact your dealer for pricing and further options, or mail us on: info@optimum-maschinen.de

SPECIAL EQUIPMENT



1	351132001	Coolant true spindle CTS 20 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres
	351132002	Coolant true spindle CTS 70 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres
2	351132007	Fourth axis complete kit	<ul style="list-style-type: none"> Including three-jaw lathe chuck Ø 150 mm, tailstock, SIEMENS motor, assembly Safety software for collision avoidance
	351132005	Machine preparation - fourth axis	
	351132008	Fourth and fifth axis complete kit	<ul style="list-style-type: none"> Including three-jaw lathe chuck Ø 175 mm, tailstock, SIEMENS motor, assembly
	351132006	Machine preparation - fourth/fifth axis	
	<p>i Technical data fourth axis and fifth axis" on page 48</p>		
3 Only ex warehouse Germany	9001041	Touch probe for tool measurement, Renishaw OTS	<ul style="list-style-type: none"> Optical transmission module OMI-2T OTS tool setter for tool measurement Measuring cycle license Assembly
	9001040	Touch probe with optical signal transmission, Renishaw OMP40	<ul style="list-style-type: none"> OMP40-2 probe with optical recording, OMP 40/400 with SK40 Straight probe insert PS3-1C Optical transmission module OMI-2T Measuring cycle license Assembly
	9001042	Renishaw OTS probe and Renishaw OMP40-2 probe	<ul style="list-style-type: none"> OMP40-2 probe with optical recording, OMP 40/400 with SK40 Optical transmission module OMI-2T OTS tool setter for tool measurement Measuring cycle license Assembly
4	351132015	Zero contact laser tool control system, Renishaw NC4	<ul style="list-style-type: none"> Compact, two-axis, touchless tool control system Only one M command required
	351132018	Machine preparation Renishaw NC4	
5	Rapid motion X, Y, Z axis 48,000 mm/min.		<ul style="list-style-type: none"> Instead of standard equipment > spindle 32,000 mm/min.
	351132009	Air conditioner	<ul style="list-style-type: none"> Instead of standard equipment > heat exchanger
6	351132003	Oil skimmer	<ul style="list-style-type: none"> Rotary disc removes oil escaping from the coolant Capacity: 1 litre per hour
7	351132004	Power transformer	<ul style="list-style-type: none"> for custom voltage Weight 147 kg
8	9001050	Measuring cycle license	<ul style="list-style-type: none"> SIEMENS Steuerung 828D/840D sl
	9001051	Software DXF-Viewer/Reader	<ul style="list-style-type: none"> from Version 4,7
	9001056	Top surface for Siemens control	<ul style="list-style-type: none"> from Version 4,7

OPTi mill® F 310

PREMIUM
line

The OPTIMUM PREMIUM CNC milling machine is characterised by performance, speed, precision and a long service life

- ▶ Precision linear guide on all axes
- ▶ Tool changer, double arm grab with 24 tool slots
- ▶ Precision ground, prestressed, high-performance ball screws ($\varnothing 40 \text{ mm} \times P12 \times C3$) on all axes
- ▶ Main spindle SK40 up to 10,000 rpm, with belt drive to minimise vibrations, as well as heat and noise development
- ▶ Torsion free machine base thanks to strong ribbing
- ▶ Router table and machine base made of premium cast meehanite, low vibration
- ▶ High-torque servodrives mounted directly on the ball screws on all three axes
- ▶ Chip conveyor, belt-type
- ▶ Coolant system with 4 bar output, 210 litre coolant tank and chip flushing system
- ▶ Cleaning gun
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Telescopic guide rail covers on all three axes
- ▶ Closed cabinet with integrated heat exchanger; optimal temperature even in case of high ambient temperatures; prevents dirt particle penetration
- ▶ Spindle oil cooling
- ▶ Oil skimmer
- ▶ Two-year SIEMENS warranty included
- ▶ "Warranty extension" on page 106

INCLUDING

Safety Integrated
Residual material detection
and processing
ShopMill work step programming
Managing network drives
3-D simulation
Simultaneous recording

SIEMENS control SINUMERIK 828D

 Information "SINUMERIK 828D" on page 106

PREMIUM



Fig. F 310

Model	F 310
Article no.	3511230
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected load	31 KVA
Milling spindle	
Drive motor	13 kW S1
Drive motor torque	70 Nm
Spindle taper	SK 40 DIN 69871
Throat	615 mm
Cooling lubricant system	
Motor - coolant pumps, four pcs.	1.27 kW each
Flow rate	66 - 100 l/min
Tank capacity	210 litres
End mill size	
Max. sensor head size	Ø 63 mm
Max. shaft milling cutter size	Ø 32 mm
Milling precision	
Repetition accuracy	± 0.005 mm
Positioning accuracy	± 0.005 mm
Tool changer	
Number of tool slots	24 tools
Max. tool diameter adjacent slots free	125 mm
Max. tool diameter	80 mm
Max. tool length	300 mm
Max. tool weight	8 kg
Tool change time tool to tool	2 seconds
Strokes	
X axis	1,000 mm
Y axis	560 mm
Z-axis	550 mm
Axis feed drive	
Milling feed X, Y, Z axis	10,000 mm/min.
Motor torque	
X axis	16 Nm
Y axis	16 Nm
Z-axis	11 Nm
Rapid mode	
X/Y axis	30,000 mm/min
Z-axis	24,000 mm/min
Speed range	
Speeds*	10 - 10,000 rpm
Pneumatic system	
Air pressure	6 bar
Milling table	
Clearance spindle to table	100 - 650 mm
Table length x width	1,200 x 520 mm
T-slot size/amount/distance	16 mm / 5 / 80 mm
Max. load	800 kg
Dimensions	
Length x width x height	3,265 x 2,600 x 2,735 mm
Overall weight	5,800 kg

Standard equipment

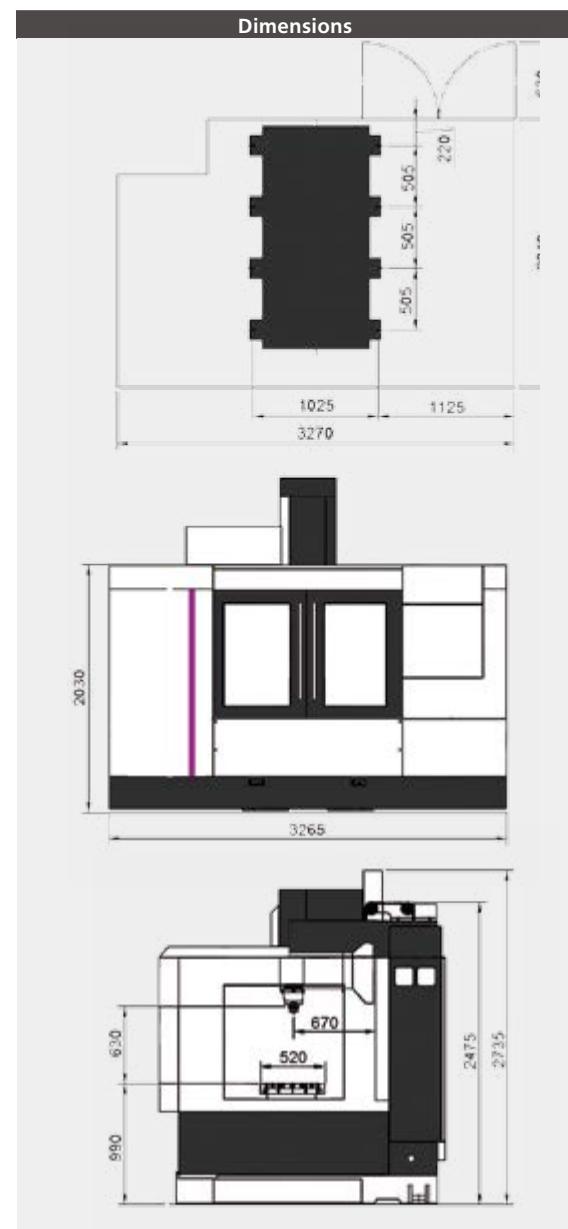
- Coolant gun
- Chip flushing system
- Halogen lamp
- 6 machine feet
- Spindle oil cooler
- Chip conveyor, belt-type
- Chip carriage

- EMC
- Heat exchanger
- Coolant pump 4 bar
- Oil skimmer

Starter set SK 40 / DIN 69871

Article no. 3536109

i "Starter set SK40/DIN 69871" on page 117



Mehr Informationen für Sie
über die F 310 in unserer
Videopräsentation auf dem
Optimum Maschinen YouTube
Kanal



- Wir empfehlen dringend eine Einweisung durch unser Fachpersonal.
"CNC introductory training" on page 96

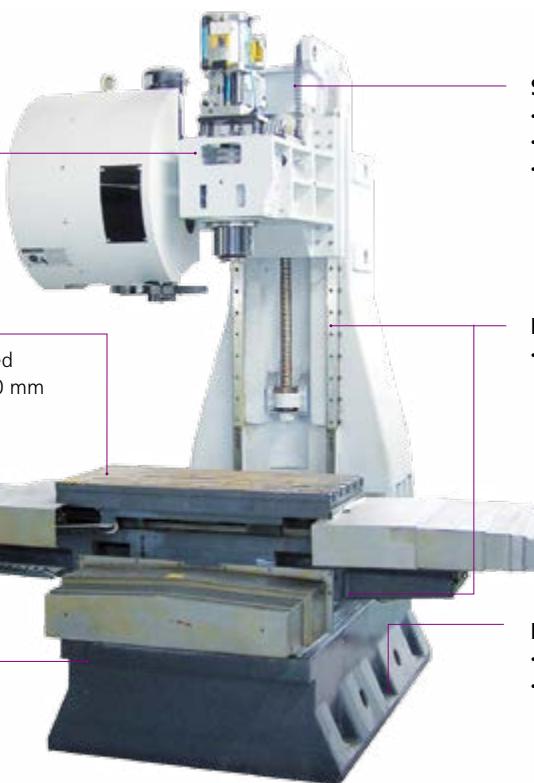
* Please note that the maximum spindle speed has to be reduced by approximately 20% in continuous operation

OPTI mill® F 310

STANDARD EQUIPMENT

Cast body

- Quality cast meehanite



Spindle

- SK 40 DIN 69871
- Spindle speed
- 10,000 rpm standard

Milling table

- Solid, precise and generously dimensioned
- Workpiece mounting surface 1,200 x 520 mm
- Precise surface finish
- Quality cast meehanite
- Five T-slots

Base body

- Quality cast with ribbed design

Linear guide

- Fast rapid motion speeds 30,000 rpm on X and Y axis and 24,000 mm/min on Z axis

Machine feet

- Six pcs.
- Optimal machine levelling



Heat exchanger

- Closed cabinet with smart cooling management
- Optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



Tool changer system

- Double arm grab tool changer with 24 tool slots
- Max. tool length 300 mm



Oil skimmer

- Eliminates impurities from the coolant



Handwheel

- Electronic
- Substantially facilitates running in of programs
- Emergency stop mushroom button
- Confirm button



Chip flushing system

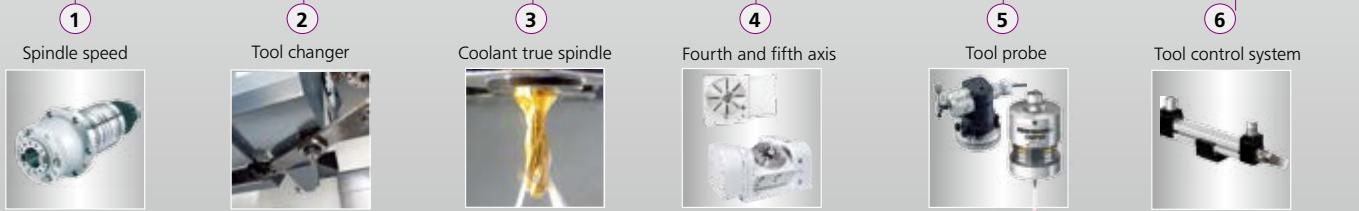
- Powerful chip flushing system for cleaning the workspace and workpiece



Laser measuring

- Guaranteed repetition and positioning accuracy

SPECIAL EQUIPMENT



1	351123004	Spindle speed 12,000 rpm	<ul style="list-style-type: none"> Instead of standard equipment > spindle 10,000 rpm
2	351123010	Double arm grab tool changer with 30 tool slots	<ul style="list-style-type: none"> Instead of standard equipment > double arm grab tool changer with 24 tool slots
3	351123008	Coolant true spindle CTS 20 bar	<ul style="list-style-type: none"> Integrated unit
3	351123009	Coolant true spindle CTS 20 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres
3	351123003	Coolant true spindle CTS 70 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres
4	351123024	Fourth axis complete kit	<ul style="list-style-type: none"> Including three-jaw lathe chuck Ø 120 mm, tailstock, SIEMENS motor, assembly Safety software for collision avoidance
4	351123019	Machine preparation - fourth axis	
4	351123016	Fourth and fifth axis complete kit	<ul style="list-style-type: none"> Including three-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly
4	351123020	Machine preparation - fourth/fifth axis	
i	"Technical data fourth axis and fifth axis" on page 48		
5	351123012	Touch probe for tool measurement, Renishaw TS 27R	<ul style="list-style-type: none"> Standard probe, precise tool length and diameter measurement, checking of rotating tools without wear on the tool or probe
5	351123014	Touch probe with optical signal transmission, Renishaw OMP60	<ul style="list-style-type: none"> Infrared transmission through 360° at an angle of 90° to the spindle axis; reduces tooling times by up to 90%
5	351123017	Machine preparation Renishaw OMP60	
5 Only ex warehouse Germany	9001041	Touch probe for tool measurement, Renishaw OTS	<ul style="list-style-type: none"> Optical transmission module OMI-2T OTS tool setter for tool measurement Measuring cycle license Assembly
	9001040	Touch probe with optical signal transmission, Renishaw OMP40	<ul style="list-style-type: none"> OMP40-2 probe with optical recording, OMP 40/400 with SK40 Straight probe insert PS3-1C Optical transmission module OMI-2T Measuring cycle license Assembly
	9001042	Renishaw OTS probe and Renishaw OMP40-2 probe	<ul style="list-style-type: none"> OMP40-2 probe with optical recording, OMP 40/400 with SK40 Optical transmission module OMI-2T OTS tool setter for tool measurement Measuring cycle license Assembly
6	351123013	Zero contact laser tool control system, Renishaw NC4	<ul style="list-style-type: none"> Compact, two-axis, touchless tool control system Only one M command required
7	351123018	Machine preparation Renishaw NC4	
8	351123005	Air conditioner	<ul style="list-style-type: none"> Instead of standard equipment > heat exchanger
8	351123011	Swarf conveyor Chip conveyor	<ul style="list-style-type: none"> Instead of standard equipment > chip conveyor, belt type
	351123015	Power transformer	<ul style="list-style-type: none"> for custom voltage Weight 147 kg
	9001050	Measuring cycle license	<ul style="list-style-type: none"> SIEMENS Steuerung 828D/840D sl
NEW	9001051	Software DXF-Viewer/Reader	<ul style="list-style-type: none"> from Version 4,7
	9001056	Top surface for Siemens control	<ul style="list-style-type: none"> from Version 4,7

OPTI^{mill}[®] F 3II HSC

PREMIUM
line

Efficient OPTIMUM PREMIUM CNC machining centre, optionally with four spindle speeds, provides the ideal solution for your task

- ▶ Heavy duty version
- ▶ High productivity
- ▶ Precision linear guide on all axes
- ▶ Fast rapid motion speed of 42 m/min on all axes
- ▶ Double arm grab tool changer with 30 tool slots
- ▶ Precision ground, prestressed, high-performance ball screws (\varnothing 40 mm x P16 x C3) on all axes
- ▶ High-speed spindles
 - 12,000 / 15,000 rpm direct drive
 - 18,000 / 24,000 rpm electrical insert spindle
- ▶ Fast work feed up to 10 m/min
- ▶ High-torque servodrives on all three axes, mounted directly on the ball screws
- ▶ Spindle borne on P5 precision bearings and permanently lubricated
- ▶ Coolant true spindle 20 bar
- ▶ Integrated coolant pump with chip flushing system and built-in coolant tank
- ▶ Chip conveyor, screw auger type
- ▶ Cleaning gun
- ▶ Automatic centralised lubrication and minimum level warning
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Telescopic guide rail covers on all three axes
- ▶ Closed cabinet with integrated heat exchanger; optimal temperature even in case of high ambient temperatures; prevents dirt particle penetration
- ▶ Spindle oil cooling
- ▶ Two years Repair service contract including
- ▶ "Warranty extension" on page 106

INCLUDING

Safety Integrated
Residual material detection
and processing
ShopMill work step programming
Managing network drives
3-D simulation
Simultaneous recording

SIEMENS control
SINUMERIK 840D sl

PREMIUM



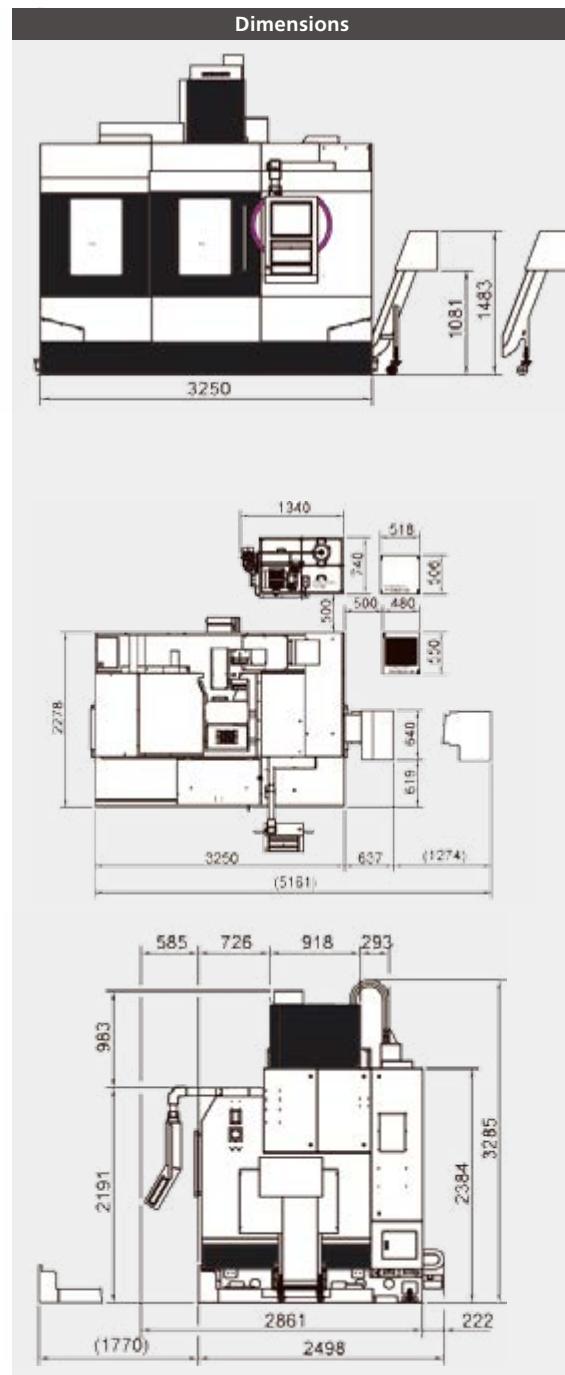
Including spindle oil cooler

Fig. F 3II HSC

Model	F 311HSC 12	F 311HSC 18
Article no.	3511330	3511334
Model	F 311HSC 15	F 311HSC 24
Article no.	3511332	3511336
Machine data		
Electrical connection	400 V / 3 Ph .50 Hz	
Total connected load	62,5 KVA	
Milling spindle		
Drive motor	30 kW S1 operation; 20 kW	
Drive motor torque	250 Nm	
Spindle taper F311 HSC12 / F311 HSC15	SK 40 DIN 69871	
Spindle taper F311 HSC18 / F311 HSC24	HSK 63 DIN 69893	
Throat	745 mm	
Cooling lubricant system		
Motor coolant pumps, 3 pcs.	850 Watts	
Flow rate	60 l/min	
Tank capacity	426.5 litres	
Milling precision		
Repetition accuracy	± 0.005 mm	
Positioning accuracy	± 0.005 mm	
Tool changer		
Number of tool slots	30 tools	
Max. tool diameter	75 mm	
Max. tool diameter (adjacent slots free)	125 mm	
Max. tool length	300 mm	
Max. tool weight	8 kg	
Tool change time tool to tool	2 seconds	
Strokes		
X axis	1,000 mm	
Y axis	650 mm	
Z-axis	650 mm	
Axis feed drive		
Milling feed X, Y, Z axis	10,000 mm/min.	
Rapid mode		
X, Y, Z axis	42,000 mm/min.	
Motor torque		
X axis	11 Nm	
Y axis	11 Nm	
Z-axis	27 Nm	
Speed range		
Speed F 311HSC 12	12,000 rpm	
Speed F 311HSC 15	15,000 rpm	
Speed F 311HSC 18	18,000 rpm	
Speed F 311HSC 24	24,000 rpm	
Pneumatic system		
Air pressure	6 bar	
Air consumption	400 l/min.	
Milling table		
Clearance spindle to table	100 – 750 mm	
Throat	745 mm	
Table length x width	1,400 x 610 mm	
T-slot size/amount/distance	18 mm / 5 / 100 mm	
Max. load	1,000 kg	
Dimensions		
Length with/without chip conveyor	3,250 / 3,887 mm	
width x height	4,103 x 3,285 mm	
Overall weight	10,000 kg	

Accessories	Article no.
Starter kit HSK A-63	3536110
Information "Starter set HSK A-63" on page 118	
Starter kit SK 40 / DIN 69871	3536109
Information "Starter set SK40/DIN 69871" on page 117	

* Please note that the maximum spindle speed has to be reduced by approximately 20% in continuous operation



Standard equipment
• Tool changer, double arm grab with 30 tool slots
• Coolant gun
• Chip flushing system
• Halogen lamp
• Six machine feet
• Spindle oil cooler
• Chip conveyor, screw auger type
• Chip carriage
• EMC
• Heat exchanger
• Coolant true spindle CTS 20 bar internal
• Pneumatic counterweight
• Automatic lubrication system
• Technology package milling SINUMERIK MDynamics

OPTI^{mill}[®] F 3II HSC

STANDARD EQUIPMENT

Cast body

- Premium cast meehanite, low vibration



Servomotors

- Mounted directly on the ball screw
- Improves positioning accuracy
- Orbital spindles are precision centered
- Prestressed nuts, each borne by precision bearings
- Automatic oil lubrication of spindles
- Grease lubrication system for bearings

Spindle

- SK 40 DIN 69871
- Four different spindle speeds - optionally between 12,000 rpm and 24,000 rpm

Base body

- Torsion free premium cast machine base thanks to strong ribbing

Precision liner roller guides

- Fast rapid motion speeds 42,000 rpm on all three axes

Machine feet

- Six pcs.
- Optimal machine levelling



Heat exchanger

- Closed cabinet with smart cooling management
- Optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



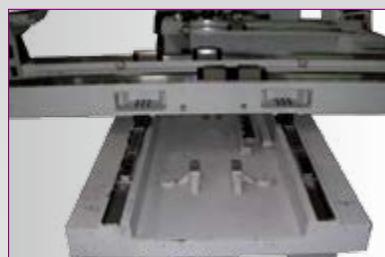
Tool changer system

- Tool changer, double arm grab with 30 tool slots
- Max. tool length 300 mm
- User-friendly tooling from the rear



Handwheel

- Electronic
- Substantially facilitates running in of programs
- Emergency stop mushroom button
- Confirm button



Y axis

- Extra wide guide rails, 700 mm
- Permanent load bearing capability



Milling table

- Solid, precise and generously dimensioned
- Workpiece mounting surface 1,400 x 610 mm
- Precise surface finish
- Five grooves



Laser measuring

- Guaranteed repetition and positioning accuracy

SPECIAL EQUIPMENT



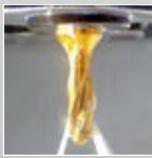
7
Power transformer



6
Oil skimmer



1
Coolant true spindle



2
Fourth and fifth axis



3
Control panel



4
Tool probe



5
Tool control system



6
Air conditioner



1	351133001	Coolant true spindle CTS 20 bar	• External unit; tank capacity 165 litres
	351133002	Coolant true spindle CTS 70 bar	• External unit; tank capacity 165 litres
2	351133007	Fourth axis complete kit	• Including three-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly · Safety software for collision avoidance
	351133005	Machine preparation - fourth axis	
	351133008	Fourth and fifth axis complete kit	• Including 3-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly
	351133006	Machine preparation	• Fourth and fifth axis
i "Technical data fourth axis and fifth axis" on page 48			
3	351133020	Sinumerik control panel OP 019 black	19-inch display, touch control Instead of standard equipment > 19-inch LCD display
	351133019	Sinumerik control panel OP 015 black	19-inch display, touch control alphanumeric keypad Instead of standard equipment > 19-inch LCD display
	9001056	Top surface for Siemens control	• from version 4,7 Informationen: „OP 015 / OP 019 black“ on page <?>
i Informationen Sinumerik, „OP 015 / OP 019 black“ on page 110			
4	9001050	Measuring cycles license	• SIEMENS control 828D/840D sl
	9001051	Software DXF-Viewer/Reader	• from version 4,7
5	351133014	Touch probe for tool measurement, Renishaw TS 27R	• Standard probe, precise tool length and diameter measurement, checking of rotating tools without wear on the tool or probe insert
	351133016	Touch probe with optical signal transmission, Renishaw OMP60	• Infrared transmission through 360° at an angle of 90° to the spindle axis; reduces tooling times by up to 90% • Reduces scrap
	351133017	Machine preparation Renishaw OMP60	
6	9001041	Touch probe for tool measurement, Renishaw OTS	• Optical transmission module OMI-2T • OTS tool setter for tool measurement • Measuring cycle license, Assembly
	9001040	Touch probe with optical signal transmission, Renishaw OMP40	• OMP40-2 probe with optical recording, OMP 40/400 • Straight probe insert PS3-1C • Optical transmission module OMI-2T • Measuring cycle license, Assembly
	9001042	Renishaw OTS probe and Renishaw OMP40-2 probe	• OMP40-2 probe with optical recording, OMP 40/400 • Optical transmission module OMI-2T • OTS tool setter for tool measurement • Measuring cycle license, Assembly
7	351133015	Zero contact laser tool control system, Renishaw NC4	• Compact, two-axis, touchless tool control system • Only one M command required
	351133018	Machine preparation Renishaw NC4	
8	351133009	Air conditioner	• Instead of standard equipment > heat exchanger
7	351133003	Oil skimmer	• Rotary disc removes oil escaping from the coolant • Capacity: 1 litre per hour
8	351133004	Power transformer	• for custom voltage • Weight 147 kg

OPTi mill® F 410

PREMIUM
line

The OPTIMUM PREMIUM CNC milling machine is characterised by performance, speed, precision and a long service life

- ▶ Heavy duty version
- ▶ High productivity
- ▶ Precision linear guide on all axes
- ▶ Tool changer, double arm grab with 24 tool slots
- ▶ Precision ground, prestressed, high-performance ball screws ($\varnothing 40 \text{ mm} \times P12 \times C3$) on all axes
- ▶ Main spindle SK40, with max. spindle speed up to 10,000 rpm as standard
- ▶ Main spindle with belt drive minimises vibrations, as well as heat and noise development
- ▶ Torsion free machine base thanks to strong ribbing
- ▶ Router table and machine base made of premium cast meehanite, low vibration
- ▶ High-torque servodrives on all three axes, mounted directly on the ball screws
- ▶ Precision ground router table with five T-slots
- ▶ Chip conveyor, belt-type
- ▶ Coolant system with 4 bar output, 210 litre coolant tank and chip flushing system
- ▶ Cleaning gun
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Telescopic guide rail covers on all three axes
- ▶ Closed cabinet with integrated heat exchanger; optimal temperature even in case of high ambient temperatures; prevents dirt particle penetration
- ▶ Spindle oil cooler
- ▶ Oil skimmer
- ▶ Two-year SIEMENS warranty included

"Warranty extension" on page 106

INCLUDING

Safety Integrated
Residual material detection
and processing
ShopMill work step programming
Managing network drives
3-D simulation
Simultaneous recording

SIEMENS control

SINUMERIK 828D

 Information "SINUMERIK 828D" on page 106



Model	F 410
Article no.	3511240
Machine data	
Electrical connection	400 V / 3 Ph .50 Hz
Total connected load	44 KVA
Milling spindle	
Drive motor	13 kW S1
Drive motor torque	70 Nm
Spindle taper	SK40 DIN 69871
Cooling lubricant system	
Motor coolant pumps, 2 pcs.	1.27 kW each
Coolant pump motor, 1 pc.	750 W
Flow rate	66 - 100 l/min
Tank capacity	210 litres
End mill size	
Max. sensor head size	Ø 63 mm
Max. shaft milling cutter size	Ø 32 mm
Milling precision	
Repetition accuracy	± 0.005 mm
Positioning accuracy	± 0.005 mm
Tool changer	
Number of tool slots	24 tools
Max. tool size	130 mm
Max. tool length	300 mm
Max. tool weight	8 kg
Max. tool diameter adjacent slots free	125 mm
Max. tool diameter	80 mm
Tool change time tool to tool	2 seconds
Strokes	
X axis	1,300 mm
Y axis	680 mm
Z-axis	730 mm
Axis feed drive	
Milling feed X, Y, Z axis	10,000 mm/min.
Motor torque	
X axis/Y axis	18 Nm
Z-axis	16 Nm
Rapid mode	
X axis/Y axis	30,000 mm/min
Z-axis	24,000 mm/min
Speed range	
Speeds*	10 - 10,000 rpm
Pneumatic system	
Air pressure	6 bar
Milling table	
Clearance spindle to table	100 - 830 mm
Table length x width	1,700 x 600 mm
T-slot size/amount/distance	18 mm / 5 / 100 mm
Max. load	1,000 kg
Dimensions	
Length x width x height	4,200 x 2,720 x 3,130 mm
Overall weight	6,600 kg

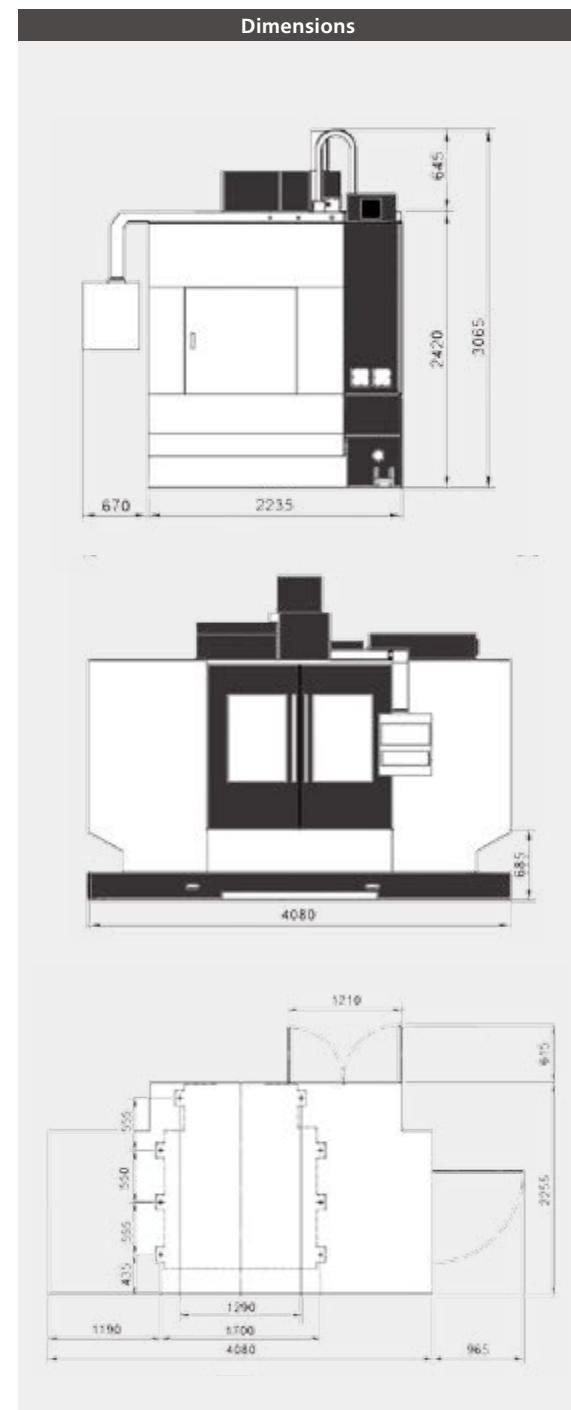
Standard equipment

- Double arm grab - 24 slots
- Coolant gun
- Chip flushing system
- Halogen lamp
- Six machine feet
- Spindle oil cooler
- Chip conveyor, belt-type
- Chip carriage
- EMC
- Heat exchanger
- Coolant pump 4 bar
- Oil skimmer

Accessories**Starter kit SK 40 / DIN 69871**

 Information "Starter set SK40/DIN 69871" on page 117

* Please note that the maximum spindle speed has to be reduced by approximately 20% in continuous operation



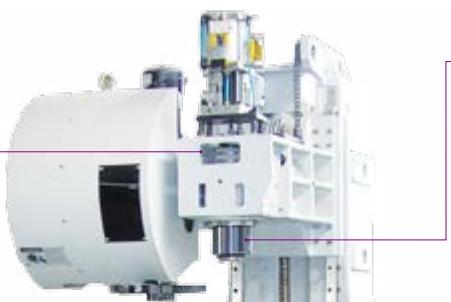
- We urgently recommend initial training by our qualified staff.
"CNC introductory training" on page 96

OPTI^{mill}[®] F 410

STANDARD EQUIPMENT

Cast body

- Quality cast meehanite

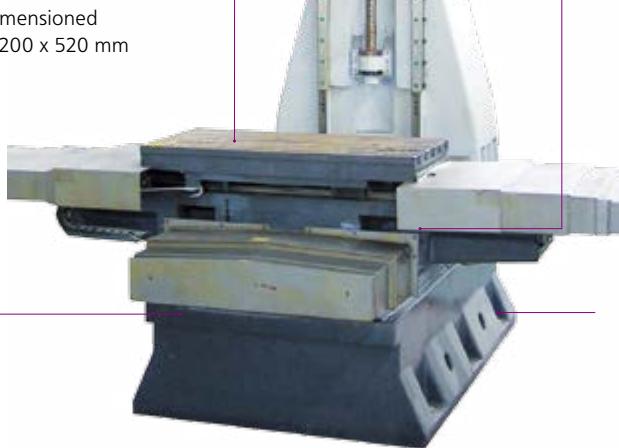


Spindle

- SK 40 DIN 69871
- Spindle speed
- 10,000 rpm standard

Milling table

- Solid, precise and generously dimensioned
- Workpiece mounting surface 1,200 x 520 mm
- Precise surface finish
- Quality cast meehanite



Linear guide

- Fast rapid motion speeds
- 30,000 rpm on X and Y axis and
- 24,000 mm/min on Z axis

Base body

- Quality cast with ribbed design

Machine feet

- Six pcs.
- Optimal machine levelling



Heat exchanger

- Closed cabinet with smart cooling management
- Optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



Tool changer system

- Tool changer, double arm grab with 24 tool slots
- Max. tool length 300 mm



Chip carriage

- Pivoting
- rollable
- L x W x H:
606 x 260 x 500 mm
- Capacity 65 litres



Handwheel

- Electronic
- Portable
- Substantially facilitates running in of programs
- Emergency stop mushroom button
- Confirm button



Chip flushing system

- Powerful chip flushing system for cleaning the workspace and workpiece



Laser measuring

- Guaranteed repetition and positioning accuracy

SPECIAL EQUIPMENT



1	351124004	Spindle speed 12,000 rpm	• Instead of standard equipment > spindle 10,000 rpm
2	351124010	Double arm grab tool changer with 30 tool slots	• Instead of standard equipment > double arm grab tool changer with 24 tool slots
3	351124008	Coolant true spindle CTS 20 bar	• with integrated power unit
3	351124009	Coolant true spindle CTS 20 bar	• With external power unit: tank capacity 165 litres
3	351124003	Coolant true spindle CTS 70 bar	• With external power unit: tank capacity 165 litres
	351124022	Fourth axis complete kit	• Including 3-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly • Safety software for collision avoidance
4	351124019	Machine preparation - fourth axis	
	351124016	Fifth axis complete kit	• Including 3-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly
	351124020	Machine preparation - fifth axis	

"Technical data fourth axis and fifth axis" on page 48

5 Only ex warehouse Germany	9001041	Touch probe for tool measurement, Renishaw OTS	• Optical transmission module OMI-2T • OTS tool setter for tool measurement • Measuring cycle license, Assembly
	9001040	Touch probe with optical signal transmission, Renishaw OMP40	• OMP40-2 probe with optical recording, OMP 40/400 with SK40 • Straight probe insert PS3-1C • Optical transmission module OMI-2T • Measuring cycle license, Installation
	9001042	Renishaw OTS probe and Renishaw OMP40-2 probe	• OMP40-2 probe with optical recording, OMP 40/400 with SK40 • Optical transmission module OMI-2T OTS tool setter for tool measurement • Measuring cycle license, Installation
5	351124012	Touch probe for tool measurement, Renishaw TS 27R	• Standard probe, precise tool length and diameter measurement, checking of rotating tools without wear on the tool or probe insert
	351124014	Touch probe with optical signal transmission, Renishaw OMP60	• Infrared transmission through 360° at an angle of 90° to the spindle axis; reduces tooling times by up to 90% • Reduces scrap
	351124017	Machine preparation Renishaw OMP60	
6	351124013	Zero contact laser tool control system, Renishaw NC4	• Compact, two-axis, touchless tool control system • Only one M command required
	351124018	Machine preparation Renishaw NC4	
7	351124011	Swarf conveyor Chip conveyor version	• Instead of standard equipment • Chip conveyor, belt-type
8	351124015	Power transformer	• for custom voltage • Weight 147 kg
	9001050	Measuring cycle license	• SIEMENS Steuerung 828D/840D sl
	9001051	Software DXF-Viewer/Reader	• from Version 4,7
	9001056	Top surface for Siemens control	• from Version 4,7

OPTI^{mill}[®] F 4II HSC

PREMIUM
line

Efficient OPTIMUM PREMIUM CNC machining centre, optionally with four spindle speeds, provides the ideal solution for your task

- ▶ Heavy duty version
- ▶ High productivity
- ▶ Precision linear guide on all axes
- ▶ Fast rapid motion speed of 42 m/min on all axes
- ▶ Tool changer, double arm grab with 30 tool slots
- ▶ Precision ground, prestressed, high-performance ball screws ($\varnothing 40 \text{ mm} \times P16 \times C3$) on all axes
- ▶ High-speed spindles
 - 12,000 / 15,000 rpm direct drive
 - 18,000 / 24,000 rpm electrical insert spindle
- Fast work feed up to 10 m/min
- ▶ High-torque servodrives on all three axes, mounted directly on the ball screws
- ▶ Spindle borne on P5 precision bearings and permanently lubricated
- ▶ Coolant true spindle 20 bar
- ▶ Coolant unit with chip flushing system and built-in coolant tank
- ▶ Chip conveyor, screw auger type ensures efficient chip discharge
- ▶ Cleaning gun
- ▶ Automatic centralised lubrication and minimum level warning
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Telescopic guide rail covers on all three axes
- ▶ Closed cabinet with integrated heat exchanger; optimal temperature even in case of high ambient temperatures; prevents dirt particle penetration
- ▶ Spindle oil cooling
- ▶ Two years Repair service contract including
- ▶ "Warranty extension" on page 106

INCLUDING

- Safety Integrated
- Residual material detection and processing for contour pockets and tie-down
- ShopMill work step programming
- Managing network drives
- 3-D simulation
- Advanced surface
- Spline interpolation
- Transmit and sleeve surface transformation
- Measuring cycles
- Simultaneous recording
- HMI user memory on CF card

SIEMENS control

SINUMERIK 840D sl

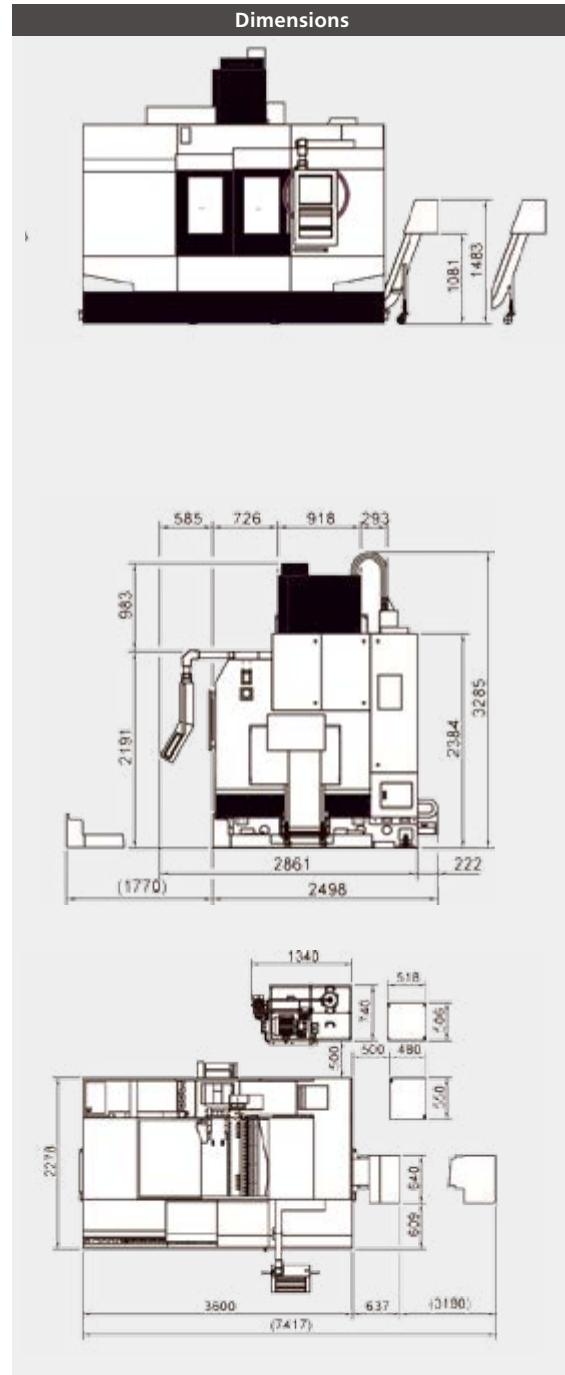
 Information "SINUMERIK 840D sl" on page 108



Model	F 411HSC 12	F 411HSC 18
Article no.	3511340	3511344
Model	F411HSC 15	F 411HSC 24
Article no.	3511342	3511346
Machine data		
Electrical connection	400 V / 3 Ph .50 Hz	
Total connected load	62,5 KVA	
Milling spindle		
Drive motor	30 kW S1 operation; 20 kW	
Drive motor torque	250 Nm	
Spindle taper F411 HSC12 / F411 HSC15	SK 40 DIN 69871	
Spindle taper F411 HSC18 / F411 HSC24	HSK 63 DIN 69893	
Throat	745 mm	
Cooling lubricant system		
Motor coolant pumps, 3 pcs.	850 W	
Flow rate	60 l/min.	
Tank capacity	426 litres	
Milling precision		
Repetition accuracy	± 0.005 mm	
Positioning accuracy	± 0.005 mm	
Tool changer		
Number of tool slots	30 tools	
Max. tool diameter	75 mm	
Max. tool diameter (adjacent slots free)	125 mm	
Max. tool length	300 mm	
Max. tool weight	8 kg	
Tool change time tool to tool	2 seconds	
Strokes		
X axis	1,200 mm	
Y axis	730 mm	
Z-axis	650 mm	
Axis feed drive		
Milling feed X, Y, Z axis	10,000 mm/min.	
Rapid mode		
X, Y, Z axis	42,000 mm/min.	
Motor torque		
X axis	11 Nm	
Y axis	11 Nm	
Z-axis	27 Nm	
Speed range		
Speed F 411HSC 12	12,000 rpm	
Speed F 411HSC 15	15,000 rpm	
Speed F 411HSC 18	18,000 rpm	
Speed F 411HSC 24	24,000 rpm	
Pneumatic system		
Air pressure	6 bar	
Air consumption	400 l/min.	
Milling table		
Clearance spindle to table	100 – 750 mm	
Throat	745 mm	
Table length x width	1,400 x 710 mm	
T-slot size/amount/distance	18 mm / 5 / 100 mm	
Max. load	1,000 kg	
Dimensions		
Length with/without chip conveyor	3,600 / 4,237 mm	
width x height	2,861 x 3,285 mm	
Overall weight	10,500 kg	

Accessories	Article no.
Starter kit HSK A-63	3536110
Information "Starter set HSK A-63" on page 118	
Starter kit SK 40 / DIN 69871	3536109
Information "Starter set SK40/DIN 69871" on page 117	

* Please note that the maximum spindle speed has to be reduced by approximately 20% in continuous operation



Standard equipment

- Tool changer, double arm grab with 30 tool slots
- Coolant gun
- Chip flushing system
- Halogen lamp
- Six machine feet
- Spindle oil cooler
- Chip conveyor, screw auger type
- Chip carriage
- EMC
- Heat exchanger
- Coolant true spindle CTS 20 bar internal
- Pneumatic counterweight
- Automatic lubrication system
- Technology package milling SINUMERIK MDynamics

OPTI^{mill}[®] F 4II HSC

STANDARD EQUIPMENT

Cast body

- Premium cast meehanite, low vibration



Servomotors

Mounted directly on the ball screw

- Improves positioning accuracy
- Orbital spindles are precision centered
- Prestressed nuts, each borne by precision bearings
- Automatic oil lubrication of spindles
- Grease lubrication system for bearings

Spindle

- SK 40 DIN 69871
- Four different spindle speeds - optionally between 12,000 rpm and 24,000 rpm

Base body

- Torsion free premium cast machine base thanks to strong ribbing

Precision liner roller guides

- Fast rapid motion speed of 42 rpm on all three axes

Machine feet

- 6 pcs.
- Optimal machine levelling



Heat exchanger

- Closed cabinet with smart cooling management
- Optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



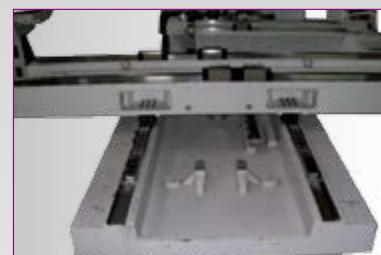
Tool changer system

- Tool changer, double arm grab with 30 tool slots
- Max. tool length 300 mm
- User-friendly tooling from the rear



Handwheel

- Electronic
- Portable
- Substantially facilitates running in of programs
- Emergency stop mushroom button
- Confirm button



Y axis

- Extra wide guide rails, 700 mm
- Permanent load bearing capability



Milling table

- Solid, precise and generously dimensioned
- Workpiece mounting surface
- 1,400 x 710 mm
- Precise surface finish
- Five grooves



Laser measuring

- Guaranteed repetition and positioning accuracy

SPECIAL EQUIPMENT



1	351134001 351134002	Coolant true spindle CTS 20 bar Coolant true spindle CTS 70 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres External unit; tank capacity 165 litres
2	351134005 351134007 351134006 351134008	Fourth axis complete kit Machine preparation - fourth axis Fourth and fifth axis complete kit Machine preparation	<ul style="list-style-type: none"> Including three-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly · Safety software for collision avoidance Including 3-jaw lathe chuck Ø 200 mm, tailstock, SIEMENS motor, assembly Fourth and fifth axis
3	351134020 351134019 9001056	Sinumerik control panel OP 019 black Sinumerik control panel OP 015 black Top surface for Siemens control	<ul style="list-style-type: none"> 19-inch display, touch control Instead of standard equipment > 19-inch LCD display 19-inch display, touch control alphanumeric keypad Instead of standard equipment > 19-inch LCD display from version 4,7 Informationen: „OP 015 / OP 019 black“ on page <?>
4	9001050 9001051 351134014 351134016 351134017	Measuring cycles license Software DXF-Viewer/Reader Touch probe for tool measurement, Renishaw TS 27R Touch probe with optical signal transmission, Renishaw OMP60 Machine preparation Renishaw OMP60	<ul style="list-style-type: none"> SIEMENS control 828D/840D sl from version 4,7 Standard probe, precise tool length and diameter measurement, checking of rotating tools without wear on the tool or probe insert Infrared transmission through 360° at an angle of 90° to the spindle axis; reduces tooling times by up to 90% Reduces scrap
5	9001041 9001040 9001042	Touch probe for tool measurement, Renishaw OTS Touch probe with optical signal transmission, Renishaw OMP40 Renishaw OTS probe and Renishaw OMP40-2 probe	<ul style="list-style-type: none"> Optical transmission module OMI-2T OTS tool setter for tool measurement Measuring cycle license, Assembly OMP40-2 probe with optical recording, OMP 40/400 Straight probe insert PS3-1C Optical transmission module OMI-2T Measuring cycle license, Assembly OMP40-2 probe with optical recording, OMP 40/400 Optical transmission module OMI-2T OTS tool setter for tool measurement Measuring cycle license, Assembly
6	351134015 351134018	Zero contact laser tool control system, Renishaw NC4 Machine preparation Renishaw NC4	<ul style="list-style-type: none"> Compact, two-axis, touchless tool control system Only one M command required
7	351134009	Air conditioner	<ul style="list-style-type: none"> Instead of standard equipment > heat exchanger
8	351134003	Oil skimmer	<ul style="list-style-type: none"> Rotary disc removes oil escaping from the coolant Capacity: 1 litre per hour
8	351134004	Power transformer	<ul style="list-style-type: none"> for custom voltage Weight 147 kg

OPTI^{mill}[®] FU 5

OPTIMUM PREMIUM 5-axis universal machining centre with SIEMENS 840D sl control

- ▶ Heavy duty version
- ▶ High productivity
- ▶ Tool changer double arm with 32 tool stations in the standard (also available with 48 or 60 tool stations)
- ▶ FU 5-600 HSC12 / 15 with In-Line spindle. These are spindles which have a transmission mechanism of the drive motor. The connection to the spindle is performed directly.
- ▶ FU 5-600 HSC18 / 24 with Built-in spindle. The spindles are manufactured with built-in drive motor. No transmission mechanism required. For high speeds at low vibration and noise during operation
- ▶ Heidenhain linear encoders in all three axes
- ▶ Precision linear guide on all axes
- ▶ In all five axes high-torque servo drives
- ▶ Fast rapid motion speed of 36 m/min on the X / Y / Z axis
- ▶ Telescopic guide rail covers on all three axes
- ▶ Precision ground, prestressed, high-performance ball screws (\varnothing 40 mm x P12 x C3) on the X / Y / Z axis
- ▶ Fast work feed up to 10 m/min on the X / Y / Z axis
- ▶ High-torque servodrives on all five axes
- ▶ Spindle borne on P5 precision bearings and permanently lubricated
- ▶ Kinematic measuring cycle CYCLE996 - allows the measurement of the axis kinematics of machine tools with several rotary axes without previous major time and cost
- ▶ Coolant unit with chip flushing system and built-in coolant tank
- ▶ Cleaning gun
- ▶ Coolant spindle 20 bar
- ▶ Chip conveyor, belt type ensures efficient chip discharge
- ▶ Automatic centralised lubrication
- ▶ Portable electronic handwheel
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Water cycle cooling unit for fast winding and ballscrew with ready coolant with corrosion protection. Prevents electrochemical corrosion protects aluminum, nonferrous and ferrous metals and galvanized parts are not affected
- ▶ Two years Repair service contract including
- ▶ "Warranty extension" on page 106

PREMIUM
line

INCLUDING

- Safety Integrated
- Residual material detection and processing for contour pockets and tie-down
- ShopMill work step programming
- MDynamics 5-axis
- Managing network drives
- 3-D simulation
- Advanced surface
- Spline interpolation
- Transmit and sleeve surface transformation
- Measuring cycles
- Simultaneous recording
- HMI user memory on CF card
- 3D tool radius compensation
- CYCLE996

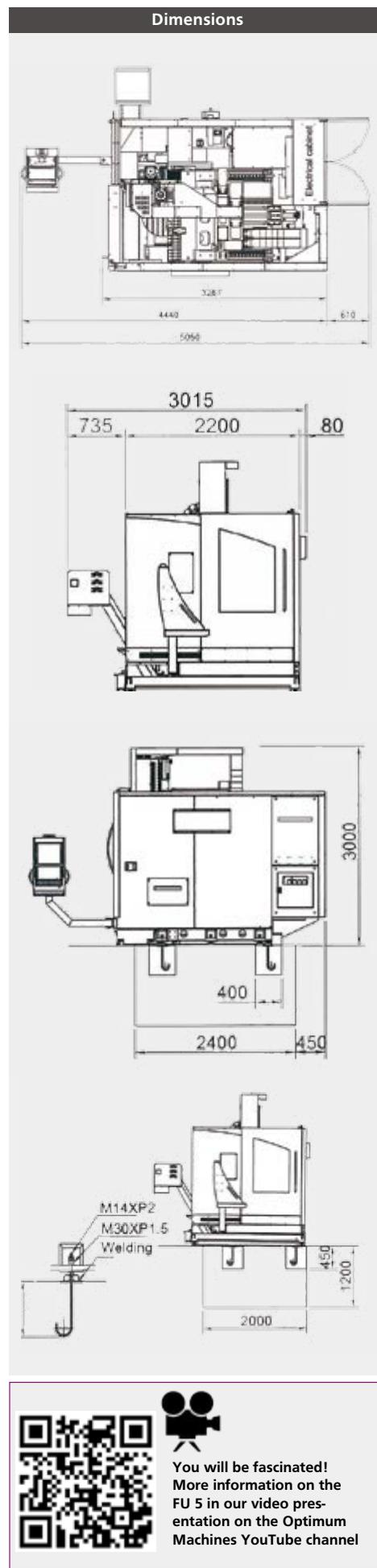
SIEMENS control

SINUMERIK 840D sl with OP 019 black Multitouch control panel

- i "SINUMERIK 840D sl" on page 108
- i „OP 019 black“ on page 110



Model	FU 5-600 HSC 12	FU 5-600 HSC 18
Article no.	3511380	3511384
Model	FU 5-600 HSC 15	FU 5-600 HSC 24
Article no.	3511382	3511386
Machine data		
Electrical connection	400 V / 3 Ph .50 Hz	
Total connected load	70 KVA	
Milling spindle		
Drive motor	20 kW (S1) / 30 kW (S6)	20 kW (S1) / 25 kW (S6)
Drive motor torque	96 Nm	32 Nm
Spindle taper	SK 40 DIN 69871	HSK 63 DIN 69893
Milling table		
Rotary table diameter	600 mm	
Swivel axis A	± 120°	
Rotation axis C	360°	
T-slot size/amount/distance	14 mm / 7 / 75 mm	
Max. load	600 kg	
Milling precision		
Repetition accuracy	± 0.004 mm	
Positioning accuracy	± 0.008 mm	
Tool changer		
Number of tool slots	32 tools	
Max. tool diameter	78 mm	
Max. tool diameter adjacent slots free	120 mm	
Max. tool length	300 mm	
Max. tool weight	7 kg	
Tool change time		1.51 seconds
Tool to tool		
Strokes		
X axis	600 mm	
Y axis	600 mm	
Z-axis	500 mm	
Axis feed drive		
Max. speed A axis	16.6 rpm	
Max. speed C axis	90 rpm	
Acceleration X, Y, Z axis	7 ms⁻²	
Rapid motion X, Y, Z axis	36,000 mm/min.	
Speed range		
Speed	12,000 rpm HSC 12	18,000 rpm HSC 18
Speed	15,000 rpm HSC 15	24,000 rpm HSC 24
Pneumatic system		
Air pressure	6 bar	
Dimensions		
Length	3,015 mm	
width x height	4,440 x 3,000 mm	
Overall weight	9,150 kg	
Standard equipment		
• Double arm grab tool changer with 32 tool slots		
• Heidenhain linear encoders in all three axes		
• Chip flushing system		
• Halogen lamp		
• Machine feet		
• Chip conveyor, belt-type		
• Chip carriage		
• Oil skimmer		
Accessories	Article no.	
Starter kit HSK A-63	3536110	
Information "Starter set HSK A-63" on page 118		
Starter kit SK 40 / DIN 69871	3536109	
Information "Starter set SK40/DIN 69871" on page 117		

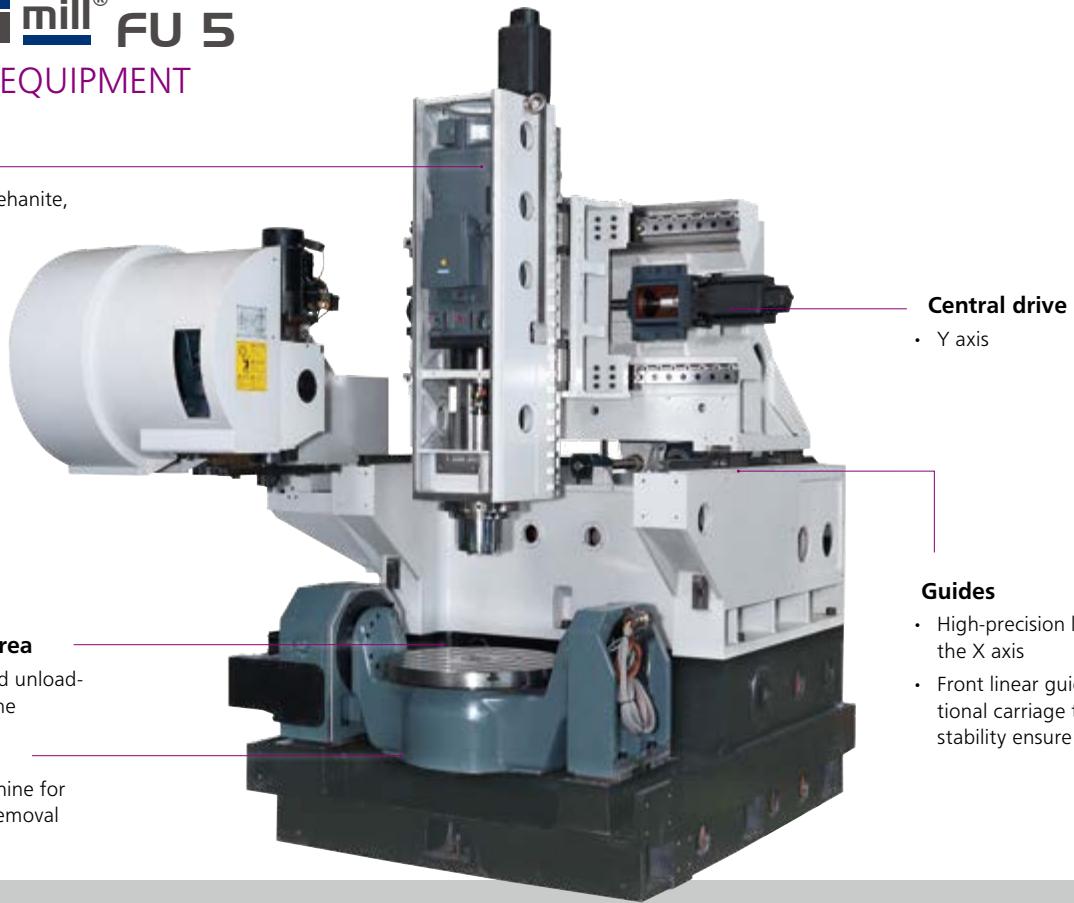


OPTi mill® FU 5

STANDARD EQUIPMENT

Cast body

Premium cast meehanite,
low vibration



Large work area

- for loading and unloading the machine

Chip removal

- designed machine for optimal chip removal

Central drive

- Y axis

Guides

- High-precision linear roller guides the X axis
- Front linear guides contain additional carriage to the dynamic stability ensure



Spindle

- Optionally
- Inline spindle 12,000 rpm or 15,000 rpm
- HF spindle 18,000 rpm or 24,000 rpm

BLUM Laser Controller (option)

- for fast, precise and automatic tool setting or identification

Swivelling table

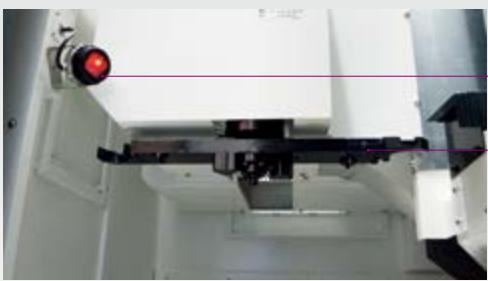
- Load-bearing capacity of up to 600 kg
- Diameter 600 mm
- A axis: worm gear driven with brake system, offers high torque and excellent durability
- C axis: Integrated torque motor. High positioning and repetition accuracy

Transmitter/receiver unit (option)

- Wireless probe system for signal transmission to the transmitter/receiver unit Heidenhain TS 750 and S 640

Automatic tool changer

- Double arm
- 32 tool slots
- Optional with 48 or 60 tool slots



SPECIAL EQUIPMENT



1	9001056	Top surface for Siemens control	<ul style="list-style-type: none"> from Version 4,7
	9001051	Software DXF-Viewer/Reader	<ul style="list-style-type: none"> from Version 4,7
	351138014	Collision Avoidance with SINUMERIK	<ul style="list-style-type: none"> of pioneering in performance and technological bandwidth Approach to avoid collisions in the machine
2	351138003	Coolant true spindle CTS 20 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres
	351138004	Coolant true spindle CTS 70 bar	<ul style="list-style-type: none"> External unit; tank capacity 165 litres
	351138005	Coolant true spindle CTS 20 bar Grundfos	<ul style="list-style-type: none"> with oil separator, paper filter and cooling unit
3	351138013	Double arm grab tool changer 48 tool slots	<ul style="list-style-type: none"> Instead of standard equipment > double arm grab tool changer with 32 tool slots
	351138010	Double arm grab tool changer 60 tool slots	<ul style="list-style-type: none"> Instead of standard equipment > double arm grab tool changer with 32 tool slots
4	351138006	BLUM LaserControl	<ul style="list-style-type: none"> for fast, precise and automatic tool setting or identification; length radius and concentricity are measured on the actual clamping system at rated speed. Tool, spindle and collet faults are directly identified and corrected. Your benefits: highest possible manufacturing quality, minimal tooling times and maximum safety
5	351138002	Air conditioner	<ul style="list-style-type: none"> Instead of standard equipment > heat exchanger
6	9001040 <small>Only ex warehouse Germany</small>	Touch probe with optical signal transmission, Renishaw OMP40	<ul style="list-style-type: none"> OMP40-2 probe with optical recording, OMP 40/400 Straight probe insert PS3-1C Optical transmission module OMI-2T Measuring cycle license Assembly

CNC MACHINE CENTER

立式加工中心 F500/F600 CNC

可选：

- 广数系统
- FANUC Oi-mate

Optional control:

- GSK system
- FANUC Oi-mate



优质、高效、高性价比

- 三轴直线导轨
- 三轴滚珠丝杆
- 机床自动润滑
- 内置工作灯 / 冷却装置

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Ball screw in all three axis
- Automatical lubricating system
- Built-in working lamp/coolant system

可选附件 Optional accessories:



- 主轴中心出水
- 压力 20 帕
- 过滤精度为 25μm



- Water out from spindle center
- Press 20 Bars
- Filtering precision is 25μm

型号	Model	F500	F600
产品编号	Code No.	1150000	1160000
机床电器	Electric Supply		
总功率	Total connection	24KW	24KW
主电机功率	Driving motor	12KW	12KW
冷却泵功率	Coolant pump	370W	370W
电机扭矩 (X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	16/16/16Nm	16/16/16Nm
主轴	Spindle		
主轴锥度	Spindle taper	BT40	BT50
主轴转速	Spindle speed	8000RPM	6000/8000RPM
主轴轴线至立柱表面距离	Distance spindle-column	700mm	760mm
最大面铣直径	Face milling dimension (Max)	Ø90mm	Ø110mm
最大立铣直径	End milling dimension (Max)	Ø50mm	Ø55mm
刀库	Magazine		
刀库容量	Capacity	24 tools	24 tools
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	Ø 78mm(with adjacent tool) Ø120mm	Ø 112mm(with adjacent tool) Ø200mm
最大刀具重量	Tool weight (Max)	8KG	18KG
换刀时间	Time-tool changing	2.5 Seconds	3.5 Seconds
工作台	Table		
工作台尺寸 (长×宽)	Table length×width	1360×650mm	1400x700mm
主轴端到工作台面距离	Distance spindle-table	120-770mm	160-860mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	18mm/110mm/5	18mm/110mm/5
最大承载重量	Load(Max)	1100KG	1200KG
行程	Travel		
X轴	X axis	1100mm	1200mm
Y轴	Y axis	650mm	700mm
Z轴	Z axis	650mm	700mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	24m/min	18m/min
精度	Accuracy		
定位精度	Positioning accuracy	±0.01mm	±0.01mm
重复定位精度	Repeat positioning accuracy	±0.005mm	±0.005mm
尺寸	Dimensions		
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	3150×2550×2850mm	3680x2950x3510mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	3300×2680×3150mm	4090x3290x3650mm
净重/毛重	Net weight/Gross weight	7300/8300KG	8500/9700kg
水箱容积	Tank capacity	280L	300L

可选附件 Optional accessories:



• 台湾进口第四轴 (回转工作台)
• The fourth axis imported from Taiwan (Rotary table)



• OPS-30 红外通讯测头系统
• Optical Probe System



• 对刀仪
• Tool-setting gauge



• 排屑器
• Chip conveyor

CNC MACHINE CENTER

立式加工中心 F800 CNC

可选：

- 广数系统
- FANUC Oi-mate

Optional control:

- GSK system
- FANUC Oi-mate



优质、高效、高性价比

- 三轴直线导轨
- 三轴滚珠丝杆
- 机床自动润滑
- 内置工作灯 / 冷却装置

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Ball screw in all three axis
- Automatical lubricating system
- Built-in working lamp/coolant system

可选附件 Optional accessories:



- 主轴中心出水
- 压力 20 帕
- 过滤精度为 25μm



- Water out from spindle center
- Press 20 Bars
- Filtering precision is 25μm

型号	Model	F800
产品编号	Code No.	1180000
机床电器	Electric Supply	
总功率	Total connection	30kW
主电机功率	Driving motor	15kW
冷却泵功率	Coolant pump	370W
电机扭矩 (X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	20/20/20Nm
主轴	Spindle	
主轴锥度	Spindle taper	BT50
主轴转速	Spindle speed	6000/8000RPM
主轴轴线至立柱表面距离	Distance spindle-column	880mm
最大面铣直径	Face milling dimension (Max)	Ø120mm
最大立铣直径	End milling dimension (Max)	Ø60mm
刀库	Magazine	
刀库容量	Capacity	24 tools Ø 112mm (with adjacent tool) Ø200mm
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	
最大刀具重量	Tool weight (Max)	18KG
换刀时间	Time-tool changing	3.5 Seconds
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	1700x800mm
主轴端到工作台面距离	Distance spindle-table	150-950mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	22mm/160mm/5
最大承载重量	Load(Max)	1600KG
行程	Travel	
X轴	X axis	1500mm
Y轴	Y axis	800mm
Z轴	Z axis	800mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	18m/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.01mm
重复定位精度	Repeat positioning accuracy	±0.008mm
尺寸	Dimensions	
外形尺寸 (长×宽×高)	Overall dimension(LxWxH)	3770x3160x3315mm
包装箱尺寸 (长×宽×高)	Packing size(LxWxH)	3950x3650x3550mm
净重/毛重	Net weight/Gross weight	12800/14000kg
水箱容积	Tank capacity	350L

可选附件 Optional accessories:



- 台湾进口第四轴 (回转工作台)
The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通讯测头系统
Optical Probe System



- 对刀仪
Tool-setting gauge



- 排屑器
Chip conveyor

CNC MACHINE CENTER

立式加工中心 F900 CNC



F900

优质、高效、高性价比

- 三轴直线导轨
- 三轴滚珠丝杆
- 机床自动润滑
- 内置工作灯 / 冷却装置

Convincing arguments: quality, efficiency and price

- Linear guiding in all three axis
- Ball screw in all three axis
- Automatical lubricating system
- Built-in working lamp/coolant system

可选附件 Optional accessories:



- 主轴中心出水
- 压力 20 帕
- 过滤精度为 25μm



- Water out from spindle center
- Press 20 Bars
- Filtering precision is 25μm

型号	Model	F900
产品编号	Code No.	1190000
机床电器	Electric Supply	
总功率	Total connection	40KW 380V 3PH 50Hz
主电机功率	Driving motor	15 KW
冷却泵功率	Coolant pump	370W
电机扭矩(X轴、Y轴、Z轴)	Torque motor(X,Y,Z axis)	36/36/36 Nm
主轴	Spindle	
主轴锥度	Spindle taper	ISO 50
主轴转速	Spindle speed	20-8000RPM
主轴轴线至立柱表面距离	Distance spindle-column	960 mm
最大面铣直径	Face milling dimension (Max)	Ø120mm
最大立铣直径	End milling dimension (Max)	Ø60mm
刀库	Magazine	
刀库容量	Capacity	24 tools Ø 112mm (with adjacent tool) Ø200mm
最大刀具尺寸(满刀/邻空刀)	Tool diameter (Max)	
最大刀具重量	Tool weight (Max)	18KG
换刀时间	Time-tool changing	5 Seconds
工作台	Table	
工作台尺寸 (长×宽)	Table length×width	2000x900 mm
主轴端到工作台面距离	Distance spindle-table	120-970 mm
T型槽槽宽/间距/数量	T-slot(size/distance/number)	18mm/125mm/7
最大承载重量	Load(Max)	1850 kg
行程	Travel	
X轴	X axis	1800 mm
Y轴	Y axis	850 mm
Z轴	Z axis	850 mm
快移速度 (X轴、Y轴、Z轴)	Rapid feed(X,Y,Z axis)	20 m/min
精度	Accuracy	
定位精度	Positioning accuracy	±0.01 mm
重复定位精度	Repeat positioning accuracy	±0.008 mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	
净重/毛重	Net weight/Gross weight	13400/15500 kg
水箱容积	Tank capacity	350L

可选附件 Optional accessories:



- 台湾进口第四轴 (回转工作台)
- The fourth axis imported from Taiwan (Rotary table)



- OPS-30 红外通讯测头系统
- Optical Probe System



- 对刀仪
- Tool-setting gauge



- 排屑器
- Chip conveyor

HORIZONTAL MACHINING CENTERS

卧式加工中心 HF 500/630/800 CNC



优质、高效、高性价比 Convincing arguments: quality, efficiency and price

- 底座采用流行倒“T”型布局，整体结构刚性高，全行程不产生颠覆力矩。
- 底座铸件用高精度五面龙门加工，只需一次装夹即可完成五面的铣削、钻孔、攻丝，减少了装夹误差，提高了加工精度。
- A prevalent inverted “T” shaped layout is in the base frame, which is rigidity of the integral structure and is not creative of any overturning during the full stroke.
- The base frame manufacture by five-sided machined high-precisely machining centre, finish most work in one chucking.
- A grouped 60°angular contact ball bearing is adopted in the lead screw, which is doubly supported and pre-tensioned, so as to increase the machining precision.
- High-frequency hardened slide rails or heavy-load high precision roller guideways, which have an excellent property of shock absorption and bear heavy load cutting.
- 采用台湾高精度主轴，标准转速 6000rpm，并带有主轴气幕保护装置，确保主轴精度稳定，寿命长。
- 数控回转工作台、分度工作台、交换工作台可选。
- Taiwan precision spindle, 6,000rpm and with air film protection device, so as to ensure to keep the spindle precision and service long life.
- CNC rotary table、Indexing table、Exchange table for optional.

型号	MODEL	HF 500 CNC	HF 630 CNC	HF 800 CNC
产品编号	Item No	1550000	1563000	1580000
工作台尺寸 (长x宽)	Worktable dimensions(LxW)	500x500mm	630x630mm	800x800mm
工作台数量	Number of worktables	1	1	1
工作台分度	Worktable indexing	1°x360	1°x360	1°x360
T型槽尺寸 (槽宽/间距/槽数)	T-slot	18mm/100mm/5	22mm/125mm/5	22mm/160mm/5
工作台最大载荷	Maximum load capacity of worktable	500kg	1000kg	1500kg
工作台左右行程 (X轴)	X axis travel	700mm	950mm	1300mm
工作台前后行程 (Z轴)	Z axis travel	580mm	830mm	900mm
主轴箱上下行程 (Y轴)	Y axis travel	580mm	750mm	900mm
主轴中心线到工作台面距离	Distance from center of spindle to worktable	120 ~ 700mm	120 ~ 870mm	100 ~ 1000mm
主轴端面到工作台中心距离	Distance from spindle nose to center of worktable	120 ~ 780mm	170 ~ 1000mm	180 ~ 1080mm
主轴锥度	Spindle taper	BT40	BT50	BT50
主轴最高转速	Maximum spindle speed	8000rpm	6000rpm	6000rpm
快速移动速度 (X、Y、Z)	rapid traveing(X、Y、Z)	24000mm/min	24000mm/min	24000mm/min
转台最大速度	Maximum speed to table	5r/min	10r/min	10r/min
刀库容量	Tool room capacity	30	40	40
选刀方式	Tool selection mode	random	random	random
最大刀具尺寸 (直径x长度)	Maximum tool dimensions(diameter x length)	Φ77x320 (With adjacent tool) Φ130x320	Φ125x350 (With adjacent tool) Φ250x350	Φ125x350 (With adjacent tool) Φ250x350
最大刀具重量	Maximum tool weight	8kg	25kg	25kg
换刀时间 (刀对刀)	Tool change time(tool to tool)	2.5s	5.5s	5.5s
机床重量	G.W.	12000kg 0.01mm (Full range)	14000kg 0.012mm (Full range)	18000kg 0.012mm (Full range)
定位精度	Positioning precision	0.006mm (Full range)	0.008mm (Full range)	0.008mm (Full range)
重复定位精度	Repeatability positioning precision			

标准附件:

- 刚性攻丝
- 30 把凸轮式刀库
- 全封闭防护罩
- 电子手轮
- 照明装置
- 双螺旋排屑器
- 自动轮滑系统
- 电箱恒温装置
- 主轴刀具冷却系统工具箱
- 手动气枪
- 主轴锥孔清洁器
- 工具箱

Standard accessories:

- Rigid tapping
- 30pcs cam-type tool-changer
- Full-guarded housing
- Electric hand-wheel
- Lighting system
- Duplex chip conveyor
- Automatical lubricating system
- Constant temperature device in cabinet
- Tool box of coolant system for spindle tool
- Manual air-gun
- Cleaning device for spindle taper hole
- Tool-box

可选附件:

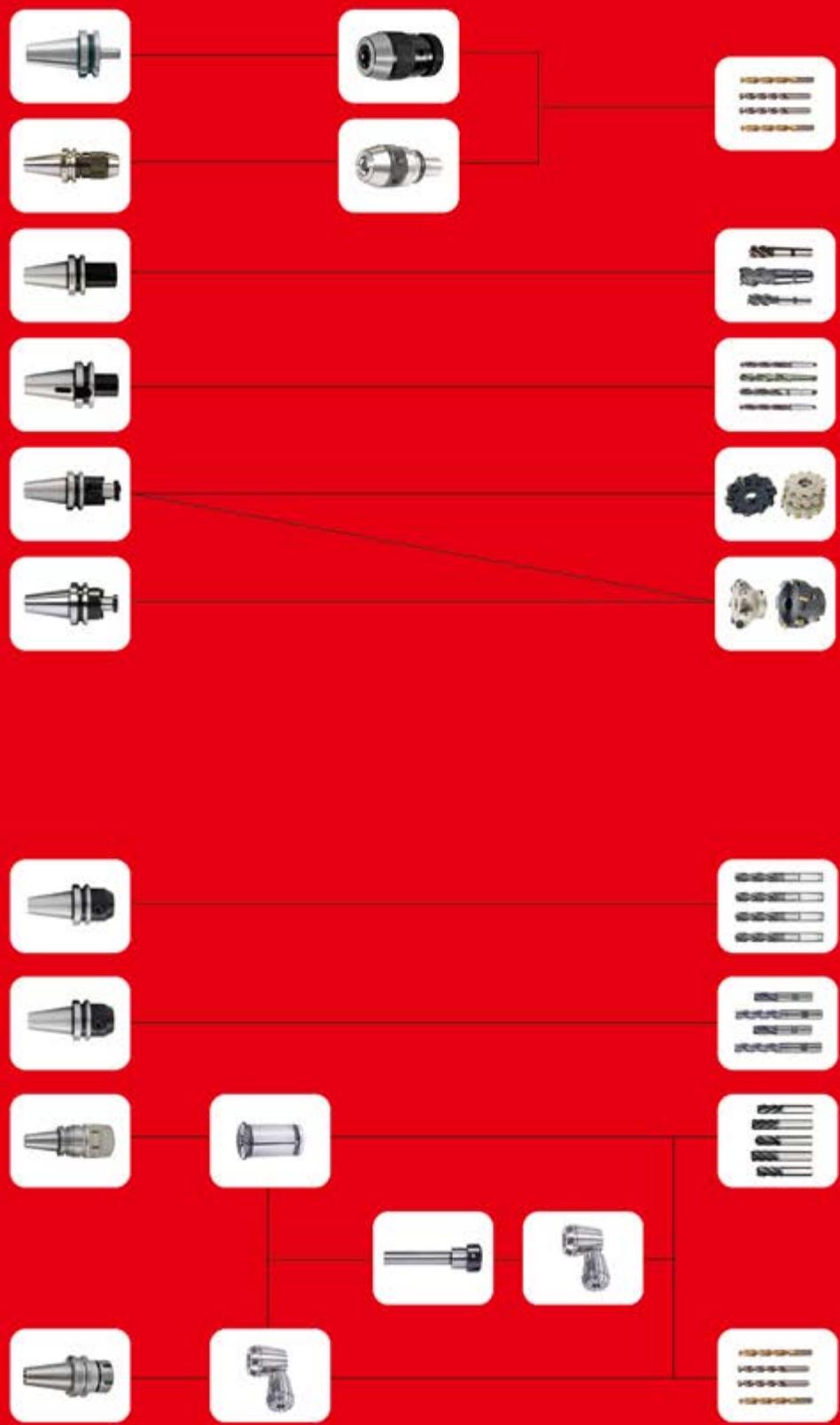
- 24 把凸轮式刀库
- 40 把凸轮式刀库
- 三轴光栅尺检测装置
- 工件测量系统
- 刀具测量系统
- 主轴内冷
- 数控回转工作台
- 链式排屑器
- 刀具长度设定器和寻边器
- 油水分离器
- 主轴水冷装置
- 网络功能

Optional accessories:

- 24pcs cam-type tool-changer
- 40pcs cam-type tool-changer
- Detection device for 3-axis glass-scale
- Measuring system of working-piece
- Measuring system of tool
- Spindle inner-cooling
- CNC-rotary table
- Chain chip conveyor
- Tool length setter and edge-detector
- Oil & water separator
- Spindle water-cooling device
- Internet function

CNC

工具系统配置图
CNC TOOL SYSTEMS





BT 系列



ER 弹簧夹头刀柄
ER Collet Chuck DIN6499



GER 高速刀柄
High Speed GER Collet Chuck



SC 强力铣刀柄
Precision Milling Chuck



APU 钻夹头刀柄
APU Drill Holder



SLA 侧固式刀柄
End Mill Holder Weldon DIN6359/1835B



混合插入式刀柄
Combi Shell Mill Holder DIN6358



面铣刀柄（公制）
FMB Face Mill Holder



有扁尾莫氏刀柄
Morse Taper Adapter with Tang DIN638



弹性攻丝刀柄
Quick Change Tapping Chuck with Length Compensation



热缩刀柄
Shrink Chuck



附件系列



BT 拉钉
BT Pull Stud



刀柄锁刀座
Tool Holder Locking Device



ER 板手
ER Spanner



SKS 滚珠扳手
SKS Ball Spanner

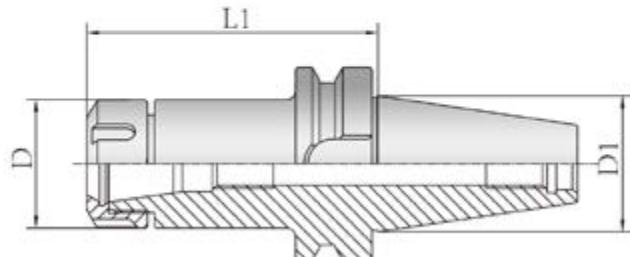


刀具车
Tool Holder Mobile Cabinet

ER Collet Chuck DIN6499

ER弹簧夹头刀柄

MAS 403

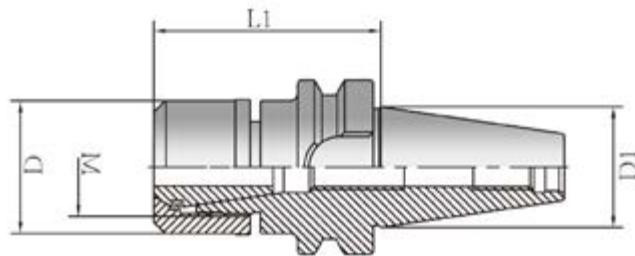


Model	D	D1	L1	Clamping Range	Wt(kg)
BT30-ER20-60	34	31.75	60	0.5-13	0.65
BT30-ER20-100	34	31.75	100	0.5-13	0.87
BT30-ER25-60	42	31.75	60	0.5-16	0.71
BT30-ER25-100	42	31.75	100	0.5-16	1.03
BT30-ER32-60	50	31.75	60	1-20	0.74
BT30-ER32-100	50	31.75	100	1-20	0.85
BT40-ER20-70	34	44.45	70	0.5-13	1.16
BT40-ER20-100	34	44.45	100	0.5-13	1.38
BT40-ER25-70	42	44.45	70	0.5-16	1.22
BT40-ER25-100	42	44.45	100	0.5-16	1.52
BT40-ER32-70	50	44.45	70	1-20	1.30
BT40-ER32-100	50	44.45	100	1-20	1.72
BT40-ER40-80	63	44.45	80	2-26	1.45
BT40-ER40-100	63	44.45	100	2-26	2.01
BT50-ER25-70	42	69.85	70	0.5-16	3.70
BT50-ER25-100	42	69.85	100	0.5-16	4.54
BT50-ER25-150	42	69.85	150	0.5-16	4.80
BT50-ER32-70	50	69.85	70	1-20	3.73
BT50-ER32-100	50	69.85	100	1-20	5.20
BT50-ER40-80	63	69.85	80	2-26	3.76
BT50-ER40-100	63	69.85	100	2-26	4.44

High Speed GER Collet Chuck

GER高速刀柄

MAS 403



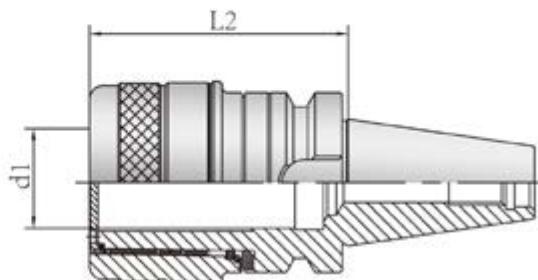
CNC

Model	Clamping Range	D1	D	L	M	Wt(kg)
BT30-GER25-60	1-16	31.75	40	60	32x1.5	0.7
BT30-GER25-90	1-16	31.75	40	90	32x1.5	0.8
BT30-GER32-75	2-20	31.75	48	75	40x1.5	1.0
BT40-GER25-70	1-16	44.45	40	70	32x1.5	1.5
BT40-GER25-100	1-16	44.45	40	100	32x1.5	1.7
BT40-GER32-70	2-20	44.45	48	70	40x1.5	1.8
BT40-GER32-100	2-20	44.45	48	100	40x1.5	1.9
BT50-GER25-100	1-16	69.85	40	100	32x1.5	4.5
BT50-GER32-100	2-20	69.85	48	100	40x1.5	5.2

Precision Milling Chuck

SC强力铣刀柄

MAS 403

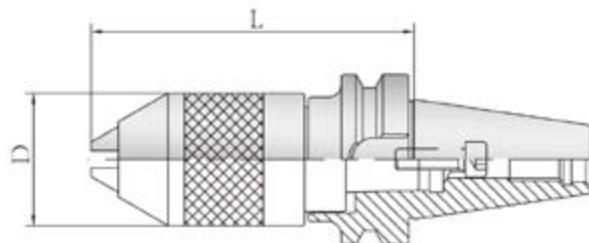


Model	d1	L2	Collet	Wt(kg)
BT30-SC20-75	20	75	C20	1.80
BT30-SC25-80	25	80	C25	1.95
BT30-SC32-85	32	85	C32	2.30
BT40-SC20-80	20	80	C20	2.40
BT40-SC25-80	25	80	C25	2.55
BT40-SC32-105	32	105	C32	2.60
BT50-SC25-105	25	105	C25	4.60
BT50-SC32-110	32	110	C32	5.20
BT50-SC42-105	42	105	C42	6.00

APU Drill Chuck Holder

APU钻夹头刀柄

MAS 403

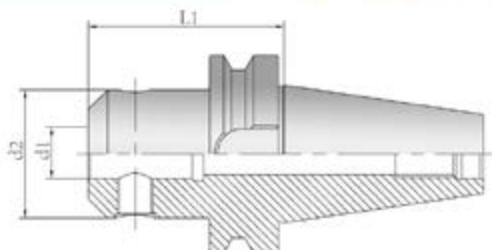


Model	Clamping Range	D	L		Wt(kg)
			Min	Max	
BT30-APU13-100	1-13	51.5	97	104.5	1.65
BT40-APU08-100	1-8	36.3	79	101.5	1.71
BT40-APU13-100	1-13	51.5	98	100	1.55
BT40-APU16-105	3-16	58	116	102	2.04
BT50-APU13-100	1-13	51.5	79	104.5	4.48
BT50-APU13-120	1-13	51.5	109	120	4.3
BT50-APU16-130	3-16	58	116	130	6.22

End Mill Holder Weldon DIN6359/1835B

SLA侧固式刀柄

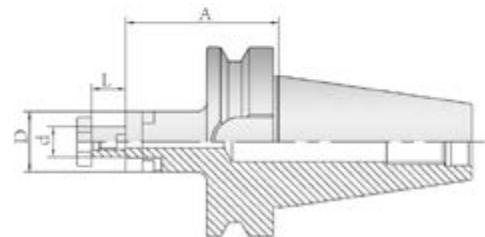
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Model	d1	d2	L1	Wt(kg)
BT30-SLA6-50	6	25	50	1.10
BT30-SLA6-100	6	25	100	1.20
BT30-SLA8-75	8	28	50	1.12
BT30-SLA8-100	8	28	100	1.20
BT30-SLA10-60	10	35	60	0.70
BT30-SLA12-60	12	42	60	0.75
BT30-SLA16-75	16	48	75	1.05
BT30-SLA20-75	20	52	75	1.10
BT30-SLA25-90	25	65	90	1.70
BT40-SLA6-50	6	25	50	1.10
BT40-SLA6-100	6	25	100	1.20
BT40-SLA8-75	8	28	75	1.12
BT40-SLA8-100	8	28	100	1.20
BT40-SLA10-63	10	35	63	1.20
BT40-SLA10-75	10	35	75	1.30
BT40-SLA12-63	12	42	63	1.30
BT40-SLA12-75	12	42	75	1.35
BT40-SLA16-63	16	48	63	1.40
BT40-SLA18-63	18	50	63	1.65
BT40-SLA20-63	20	52	63	1.40
BT40-SLA20-90	20	52	90	2.00
BT40-SLA25-90	25	65	90	2.48
BT40-SLA32-100	32	72	100	2.75
BT40-SLA40-100	40	90	100	2.75
BT50-SLA16-100	16	48	100	5.00
BT50-SLA20-100	20	52	100	5.00
BT50-SLA25-100	25	65	100	5.10
BT50-SLA32-105	32	72	105	6.00
BT50-SLA40-115	40	90	115	6.60

Combi Shell Mill Holder DIN6358 混合插入式刀柄

MAS 403

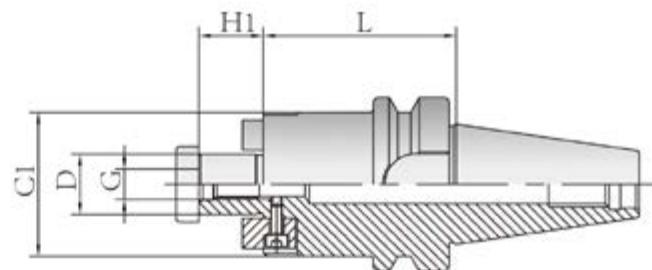


Model	d	D	L	A
BT40-SEMC16-55	16	32	17	55
BT40-SEMC22-55	22	40	19	55
BT40-SEMC27-55	27	48	21	55
BT40-SEMC32-100	32	58	24	100
BT40-SEMC40-100	40	70	27	100

FMB Face Mill Holder

面铣刀柄 (公制)

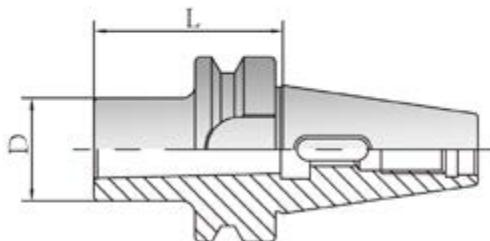
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Model	D	L	C1	H1	G	Wt(kg)
BT30-FMB22-45	22	45	48	19	M10	0.9
BT30-FMB27-60	27	60	60	21	M12	1.4
BT40-FMB22-60	22	60	48	19	M10	1.7
BT40-FMB22-100	22	100	48	19	M10	2.2
BT40-FMB22-150	22	150	48	19	M10	3.3
BT40-FMB27-60	27	60	60	21	M12	2.0
BT40-FMB27-90	27	90	60	21	M12	2.3
BT40-FMB27-100	27	100	60	21	M12	2.5
BT40-FMB27-150	27	150	60	21	M12	3.8
BT40-FMB32-60	32	60	78	24	M16	2.1
BT40-FMB32-100	32	100	78	24	M16	3.5
BT40-FMB32-150	32	150	78	24	M16	5.3
BT40-FMB40-75	40	75	89	27	M20	1.8
BT40-FMB40-100	40	100	89	27	M20	2.4
BT50-FMB22-60	22	60	48	19	M10	6.0
BT50-FMB22-100	22	100	48	19	M10	5.6
BT50-FMB27-100	27	100	60	21	M12	14.0
BT50-FMB27-150	27	150	60	21	M12	21.0
BT50-FMB32-100	32	100	78	24	M16	12.2
BT50-FMB32-150	32	150	78	24	M16	18.3
BT50-FMB32-200	32	200	78	24	M16	24.4

Morse Taper Adapter with Tang DIN6383 有扁尾莫氏刀柄

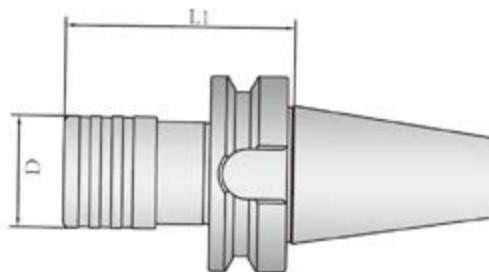
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Model	D	L	\varnothing D (内孔)	Wt(kg)
BT30-MTA2-60	31.75	60	32	0.9
BT30-MTA3-75	31.75	75	40	0.9
BT40-MTA2-60	44.45	60	32	1.3
BT40-MTA3-75	44.45	75	40	1.2
BT40-MTA4-95	44.45	95	48	1.4
BT50-MTA2-60	69.85	60	32	3.6
BT50-MTA3-120	69.85	120	40	4.4
BT50-MTA4-95	69.85	95	48	4.3
BT50-MTA5-105	69.85	105	63	5.0

Quick Change Tapping Chuck with Legeh Compensation 弹性攻丝刀柄

MAS 403

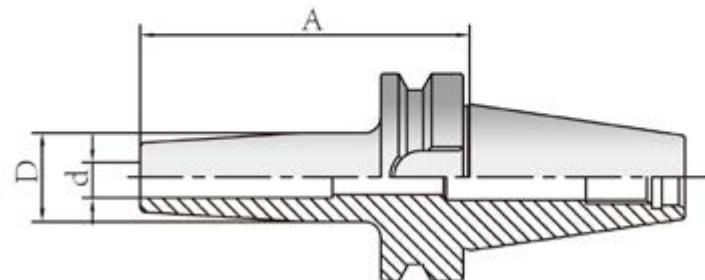


Model	Tapping Range	Stretch	Shrink	D	L1
BT30-TC312-70	M3-M12	7.5	7.5	36	70
BT40-TC312-70	M3-M12	7.5	7.5	36	70
BT40-TC820-95	M8-M20	10	10	56	95
BT50-TC312-85	M3-M12	7.5	7.5	36	85
BT50-TC820-105	M8-M20	10	10	56	105

Shrink Chuck

热缩刀柄

MAS 403

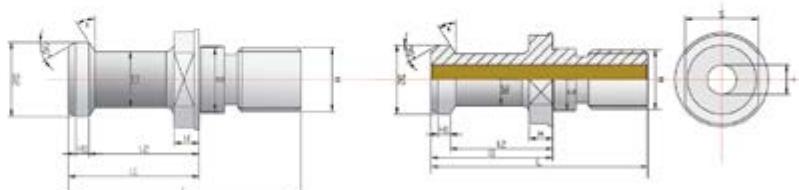


Model	d	A	D	D1	I1	I2
BT40-SRC14-90	14	90	27	34	47	10
BT40-SRC18-90	18	90	33	42	50	10
BT40-SRC25-100	25	100	44	53	58	10
BT40-SRC32-100	32	100	44	53	58	10
BT50-SRC14-100	14	100	27	34	47	10
BT50-SRC18-110	18	110	33	42	50	10
BT50-SRC25-120	25	120	44	53	58	10
BT50-SRC32-120	32	120	44	53	62	10

BT Pull Stud

BT 拉钉

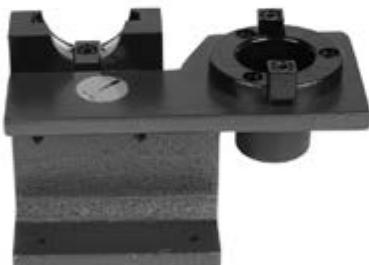
MAS 403-1982



Model	D	D1	D2	M	L	L1	L2	H	H1	\emptyset
BT30	12.5	7	11	M12	43	23	18	5	2.5	30° 45° 60° 90°
BT40	17	10	15	M16	60	35	28	6	3	
BT50	25	17	23	M24	85	45	35	10	5	

Tool Holder Locking Device

刀柄锁刀座

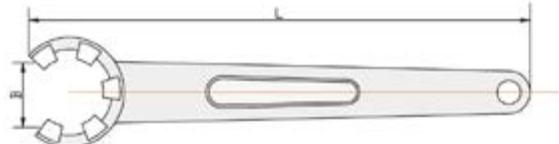


Taper of Tool Holder	Qutsize(mm)	Wt(kg)
BT30	205x98.5x128	3.7
BT40	205x98.5x128	3.8
BT50	275x150x198	11.4
DIN69871.30	205x98.5x128	3.7
DIN69871.40	205x98.5x128	3.8
DIN69871.50	275x150x198	11.4
CAT30	205x98.8x128	3.7
CAT40	205x98.5x128	3.8
CAT50	275x150x198	11.4

ER Spanner

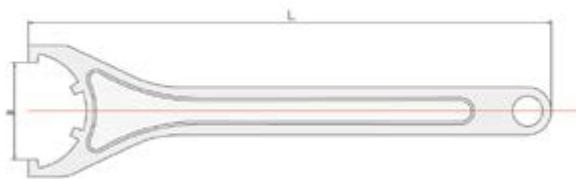
ER 扳手

Mini



Model	B	L	Clamping Nut
ER8-M	7.5	70	ER8-M
ER11-M	11	90	ER11-M
ER16-M	15	110	ER16-M
ER20-M	19.5	120	ER20-M
ER25-M	25	130	ER25-M

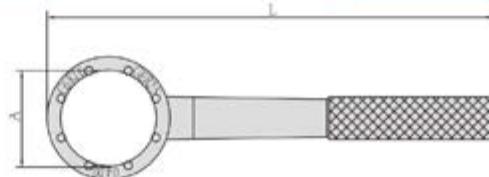
UM



Model	B	L	Clamping Nut
ER16-UM	26	180	ER16-UM
ER20-UM	30	190	ER20-UM
ER25-UM	37	210	ER25-UM
ER32-UM	46.5	250	ER32-UM
ER40-UM	58	290	ER40-UM
ER50-UM	74	350	ER50-UM

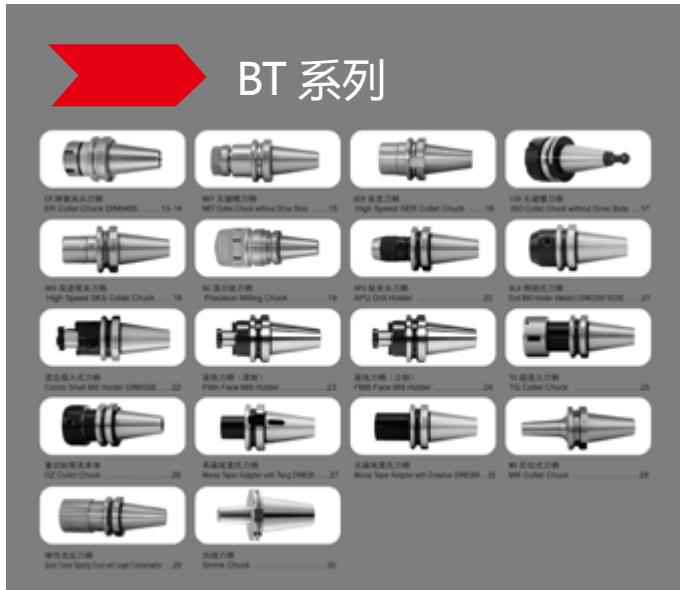
SKS Ball Spanner

SKS滚珠扳手



Model	A	L	Wt(kg)
SKS06	19.5	120	0.24
SKS10	27.1	135	0.30
SKS16	40	180	0.70
SKS25	55	300	0.38
ER25-M	25	130	ER25-M

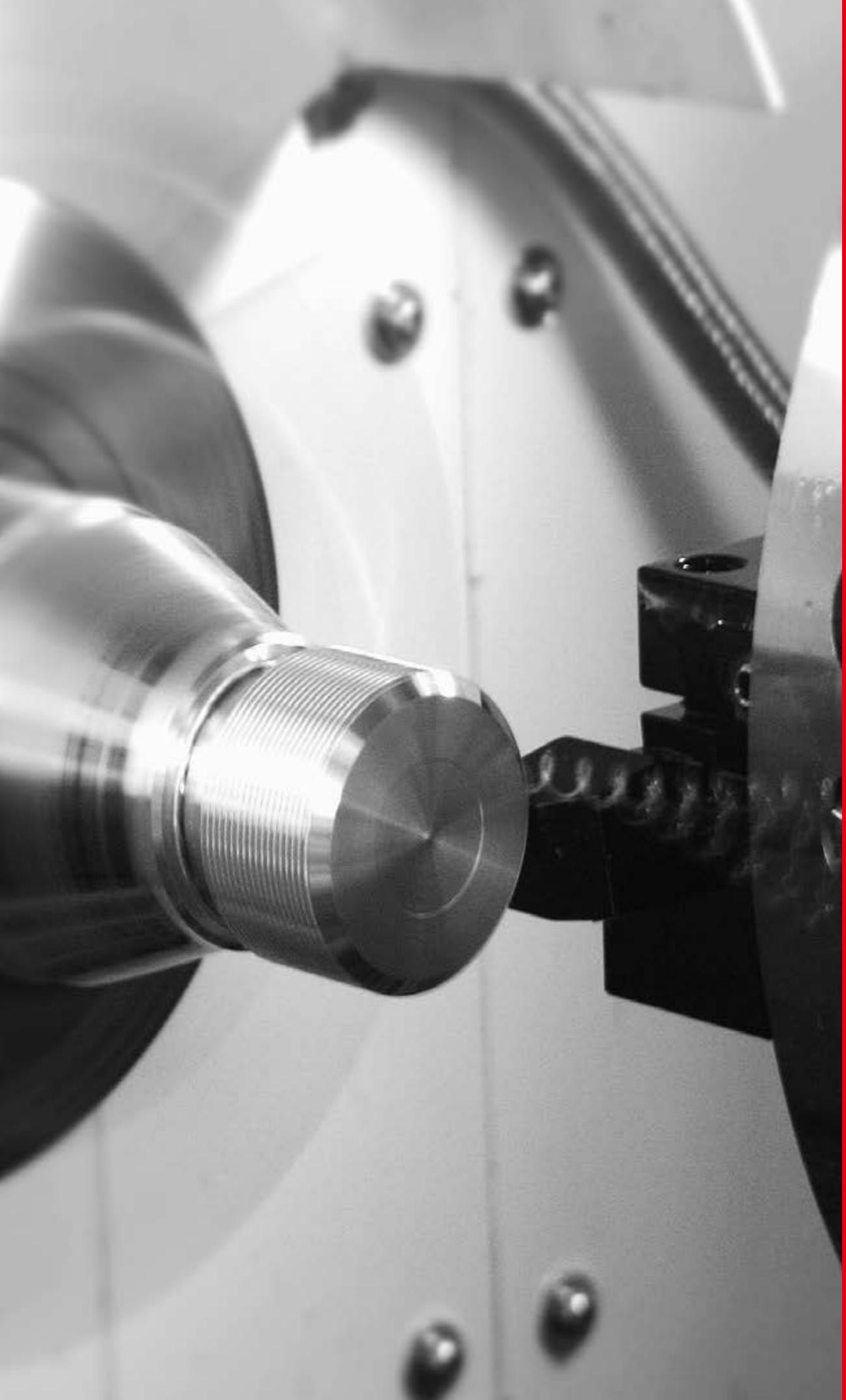
TOOL HOLDER MOBILE CABINET



Model	NW40	RD-7033MA	BT40/25/1
Tool holder	43 pcs BT40	43 pcs BT40	35 pcs BT40
Packing size	810x640x330mm	600x600x1000mm	600x600x1000mm
N.W./G.W.	40/50 kg	40/50 kg	40/50 kg

刀库 Magazine							
机床型号	机床编码	刀库形式	刀库容量	最大刀具重量	刀具最大尺寸	换刀时间	刀库型号
Machine type	Item No.	Magazine type	Capacity	Max load	Max diameter of tool	Tool change time	Part No.
M3HS	1103100	/	/	/	/	/	/
M4HS	1104100	/	/	/	/	/	/
M4	1104000	/	/	/	/	/	/
F3	1103200	/	/	/	/	/	/
F4	1104200	斗笠式 Turnable type	8T	6KG	满刀状态为 (with adjacent tool) Ø70mm	邻空刀状态为 (without adjacent tool) Ø110mm	6S 1914042
F80	1108000	斗笠式 Turnable type	10T	6KG	满刀状态为 (with adjacent tool) Ø104mm	邻空刀状态为 (without adjacent tool) Ø160mm	6S 1914080
F105	1110500	斗笠式 Turnable type	12T	6KG	满刀状态为 (with adjacent tool) Ø104mm	邻空刀状态为 (without adjacent tool) Ø160mm	6S 1914105
F150	1115000	圆盘式 Disc type	16T	8KG	满刀状态为 (with adjacent tool) Ø78mm	邻空刀状态为 (without adjacent tool) Ø120mm	2.5S 1914150
F210	1121000	圆盘式 Disc type	16T	8KG	满刀状态为 (with adjacent tool) Ø78mm	邻空刀状态为 (without adjacent tool) Ø120mm	2.5S 1914210
F300	1130000	圆盘式 Disc type	24T	8KG	满刀状态为 (with adjacent tool) Ø78mm	邻空刀状态为 (without adjacent tool) Ø120mm	2.5S 1914300
F500	1150000	圆盘式 Disc type	24T	8KG	满刀状态为 (with adjacent tool) Ø78mm	邻空刀状态为 (without adjacent tool) Ø200mm	2.5S 1914500
F600	1160000	圆盘式 Disc type	24T	18KG	满刀状态为 (with adjacent tool) Ø112mm	邻空刀状态为 (without adjacent tool) Ø200mm	3.5S 1914600
F800	1180000	圆盘式 Disc type	24T	18KG	满刀状态为 (with adjacent tool) Ø112mm	邻空刀状态为 (without adjacent tool) Ø200mm	3.5S 1914800

刀架 Tool post						
机床型号	机床编码	刀架形式	刀架工位数	刀具最大截面	镗刀直径	刀架型号
Machine type	Item No.	Type	Numbers of tool position	Section of tool(Max)	Boring tool diameter	Part No.
L28	1302800	electric	4	12×12mm	/	1953028
L28HS	1302900	servo	8	12×12mm	16mm	1953029
L33HS	1303400	electric	6/8	16×16mm	16mm	1953034
L34HS	1303500	servo	8	16×16mm	16mm	1953035
L40	1304000	electric	8	20×20mm	30mm	1953040
L50	1305000	electric	6/8	25×25mm	35mm	1953050
L400	1340000	electric	4	20×20mm		1953400
L44	1304400	hydraulic	8	20×20mm	25mm	1953044
L560	1356000	electric	4/6	25×25mm		1953560
L660	1366000	electric	6/8	32×25mm		1953660
S400E	1540000	hydraulic	8	25×25mm	35mm	1953400
S600E	1560000	hydraulic	8/10	25×25mm	35mm	1953600



CNC Lathes

CNC LATHE MACHINE

数控车床 L28/L28S CNC

可选：
· 广数系统

Optional control:
· GSK system

SIEMENS 808D control
西门子808D控制器



小型车身数控车床，适合小批量生产以及培训所用。

Small-size CNC lathe, perfect for small series and training purpose

优质、高效、高性价比

- 机床导轨经过高频淬火 (HRC42-52)
- 冷却系统
- 自动润滑系统
- 二轴滚珠丝杆
- 伺服驱动
- 4 工位电动刀架
- 门带安全防护开关

Convincing arguments: quality, efficiency and price

- Bed guideways inductively hardened (HRC42-52)
- Coolant system
- Automatical lubricating system
- Ball screw in two axis
- Servo-drive
- 4-step electric turret
- Door equipped with a safety switch

标准附件:

- 三爪卡盘
- 死顶尖 MT2
- 各种扳手

Standard accessories:

- 3-jaw chuck
- Dead center MT2
- Various wrench

可选附件:

- 组合车刀
- 活顶尖 MT2

Optional accessories:

- Index turning tools
- Live center MT2

型号	Model	L28	L28S
产品编号	Code No.	1302800	1303000
机床电器	Electrical connection		
总功率	Total connection	3.5KW	3.5KW
主电机功率	Main motor power	2.2KW	2.2KW 230V~50Hz
冷却泵功率	Coolant pump power	40W	40W
加工范围	Capacity		
床身上最大回转直径	Swing over bed	Ø300mm	Ø280mm
拖板上最大回转直径	Swing over cross slide	Ø200mm	Ø200mm
两顶尖距离	Center width	600mm	600mm
中心高	Center height	140mm	140mm
主轴	Spindle		
主轴鼻端	Spindle nose	外锥 1:4	外锥 1:4
主轴内孔锥度	Spindle taper	MT4	MT4
主轴通孔直径	Spindle bore	Ø26mm	Ø26mm
主轴转速	Spindle speed range	30-4000rpm	30-4000rpm
卡盘	Lathe chuck	Ø125mm	Ø125mm
刀架	Tool changer		
刀架形式	Type	electric	electric
刀架工位数	Numbers of tool position	4	4
刀具最大截面	Section of tool (Max)	12×12mm	12×12mm
行程	Travel		
X轴	X axis	180mm	180mm
Z轴	Z axis	465mm	465mm
X轴快移速度	X axis rapid speed	6000mm/min	3000mm/min
Z轴快移速度	Z axis rapid speed	8000mm/min	2500mm/min
精度	Accuracy		
定位精度	Position accuracy	X:±0.05mm,Z:±0.03mm	/
重复定位精度	Repeat position accuracy	X:±0.02mm,Z:±0.02mm	0.01mm
尾座	Tailstock		
尾架锥度	Tailstock taper	MT2	MT2
尾架套筒直径	Tailstock sleeve diameter	Ø30mm	Ø30mm
尾架套筒行程	Tailstock sleeve travel	80mm	80mm
尺寸	Dimensions		
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1590x705x1515mm	1860x960x1450mm
包装尺寸 (长x宽x高)	Packing size(LxWxH)	1830x945x1840mm	/
净重/毛重	Net weight/Gross weight	800/900kg	420kg
水箱容积	Tank capacity	25L	25L

CNC LATHE MACHINE

数控车床 L28HS CNC

可选：

Optional control:

- 广数系统
- GSK system

SIEMENS 808D control

西门子808D控制器



优质、高效、高性价比

- 高速主轴单元
- 伺服主轴
- 伺服驱动
- 伺服刀架
- 2 轴滚珠丝杆
- 自动润滑系统
- 冷却系统
- LED 工作灯

Convincing arguments: quality, efficiency and price

- High-speed spindle unit
- Servo-spindle
- Servo-drive
- Servo turret
- Ball screw in two axis
- Automatical lubricating system
- Coolant system
- LED lamp

标准附件:

- 板手
- 变径套
- 普通顶尖
- 三爪卡盘

Standard accessories:

- Wrench
- Reduction sleeve
- Alloy center
- 3-jaw chuck

型号	Model	L28HS
产品编号	Code No.	1302900
机床电器	Electrical connection	
总功率	Total connection	3.5KW
主电机功率	Main motor power	2.2KW
冷却泵功率	Coolant pump power	95W
加工范围	Capacity	
床身上最大回转直径	Swing over bed	Ø300mm
拖板上最大回转直径	Swing over cross slide	Ø200mm
两顶尖距离	Center width	600mm
中心高	Center height	160mm
主轴	Spindle	
主轴鼻端	Spindle nose	A2-3
主轴内孔锥度	Spindle taper	5C
主轴通孔直径	Spindle bore	Ø30mm
主轴转速	Spindle speed range	40-4000rpm
卡盘	Lathe chuck	Ø125mm
刀架	Tool changer	
刀架形式	Type	servo
刀架工位数	Numbers of tool position	8
刀具最大截面	Section of tool (Max)	12×12mm
行程	Travel	
X轴	X axis	145mm
Z轴	Z axis	465mm
X轴快移速度	X axis rapid speed	6000mm/min
Z轴快移速度	Z axis rapid speed	8000mm/min
精度	Accuracy	
定位精度	Position accuracy	±0.03mm
重复定位精度	Repeat position accuracy	±0.02mm
尾座	Tailstock	
尾架锥度	Tailstock taper	MT2
尾架套筒直径	Tailstock sleeve diameter	Ø30mm
尾架套筒行程	Tailstock sleeve travel	80mm
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1655x1265x1910mm
包装尺寸 (长x宽x高)	Packing size(LxWxH)	1855x1659x1931mm
净重/毛重	Net weight/Gross weight	900/1050kg
水箱容积	Tank capacity	25L

细节展示 Standard equipment



- 普通刀架
- Normal turret

CNC LATHE MACHINE

数控车床 L33HS CNC

可选：
• 广数系统

Optional control:
• GSK system

SIEMENS 808D control

西门子808D控制器



优质、高效、高性价比

- 机床导轨经过高频淬火 (HRC42-52)
- 高速主轴单元 (L33HS)
- 冷却系统
- 自动润滑系统
- 二轴滚珠丝杆
- 伺服驱动
- 6工位电动刀架
- 门带安全防护开关

Convincing arguments: quality, efficiency and price

- Bed guideways inductively hardened (HRC42-52)
- High-speed spindle unit (L33HS)
- Coolant system
- Automatical lubricating system
- Ball screw in two axis
- Servo-drive
- 6-step electric turret
- Door equipped with a safety switch

标准附件:

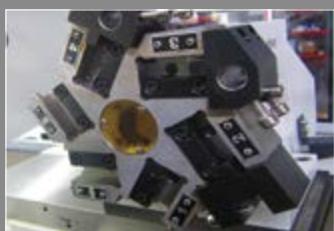
- 板手
- 变径套
- 普通顶尖
- 三爪卡盘

Standard accessories:

- Wrench
- Reduction sleeve
- Alloy center
- 3-jaw chuck

型号	Model	L33HS
产品编号	Code No.	1303400
机床电器	Electrical connection	
总功率	Total connection	5KW (6.7HP)
主电机功率	Main motor power	3.7KW (4.9HP)
冷却泵功率	Coolant pump power	95W (0.1HP)
加工范围	Capacity	
床身上最大回转直径	Swing over bed	Ø330mm (13")
拖板上最大回转直径	Swing over cross slide	Ø152mm (6")
两顶尖距离	Center width	630mm (24.8")
中心高	Center height	165mm (6.5")
主轴	Spindle	
主轴鼻端	Spindle nose	A2-4
主轴内孔锥度	Spindle taper	1:20
主轴通孔直径	Spindle bore	Ø38mm (1.5")
主轴转速	Spindle speed range	30-4000mm (1.2"-157.5")
卡盘	Lathe chuck	Ø160mm (6.3")
刀架	Tool changer	
刀架形式	Type	electric
刀架工位数	Numbers of tool position	6/8
刀具最大截面	Section of tool (Max)	16×16mm
行程	Travel	
X轴	X axis	165mm (6.5")
Z轴	Z axis	600mm (23.6")
X轴快移速度	X axis rapid speed	6000mm/min (236.2"/min)
Z轴快移速度	Z axis rapid speed	8000mm/min (315"/min)
精度	Accuracy	
定位精度	Position accuracy	±0.025mm
重复定位精度	Repeat position accuracy	±0.01mm
尾座	Tailstock	
尾架锥度	Tailstock taper	MT3
尾架套筒直径	Tailstock sleeve diameter	Ø45mm (1.8")
尾架套筒行程	Tailstock sleeve travel	120mm (4.7")
尺寸	Dimensions	
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1900×1185×2126mm
包装尺寸 (长x宽x高)	Packing size(LxWxH)	2060×1390×1815mm
净重/毛重	Net weight/Gross weight	1250/1400KG
水箱容积	Tank capacity	30L

细节展示 Standard equipment



- 普通刀架
- Normal turret

CNC LATHE MACHINE

数控车床 L34HS CNC

可选：
• 广数系统

Optional control:
• GSK system

SIEMENS 808D control
西门子808D控制器



优质、高效、高性价比

- 高速主轴单元
- 伺服主轴
- 伺服驱动
- 伺服刀架
- 2 轴滚珠丝杆
- 自动润滑系统
- 冷却系统
- LED 工作灯

Convincing arguments: quality, efficiency and price

- High-speed spindle unit
- Servo-spindle
- Servo-drive
- Servo-turret
- Ball screw in two axis
- Automatical lubricating system
- Coolant system
- LED lamp

标准附件:

- 板手
- 变径套
- 普通顶尖
- 三爪卡盘

Standard accessories:

- Wrench
- Reduction sleeve
- Alloy center
- 3-jaw chuck

型号	Model	L34HS
产品编号	Code No.	1303500
机床电器	Electrical connection	
总功率	Total connection	6.5KW
主电机功率	Main motor power	3.7KW
冷却泵功率	Coolant pump power	95W
加工范围	Capacity	
床身上最大回转直径	Swing over bed	Ø340mm
拖板上最大回转直径	Swing over cross slide	Ø152mm
两顶尖距离	Center width	630mm
中心高	Center height	170mm
主轴	Spindle	
主轴鼻端	Spindle nose	A2-4
主轴内孔锥度	Spindle taper	1:20
主轴通孔直径	Spindle bore	Ø38mm
主轴转速	Spindle speed range	30-3500rpm
卡盘	Lathe chuck	Ø160mm
刀架	Tool changer	
刀架形式	Type	servo
刀架工位数	Numbers of tool position	8
刀具最大截面	Section of tool (Max)	16×16mm
行程	Travel	
X轴	X axis	185mm
Z轴	Z axis	540mm
X轴快移速度	X axis rapid speed	6000mm/min
Z轴快移速度	Z axis rapid speed	8000mm/min
精度	Accuracy	
定位精度	Position accuracy	±0.025mm
重复定位精度	Repeat position accuracy	±0.01mm
尾座	Tailstock	
尾架锥度	Tailstock taper	MT3
尾架套筒直径	Tailstock sleeve diameter	Ø45mm
尾架套筒行程	Tailstock sleeve travel	120mm
尺寸	Dimensions	
外形尺寸(长x宽x高)	Overall dimension(LxWxH)	1950x1430x1713mm
包装尺寸(长x宽x高)	Packing size(LxWxH)	2070x1650x2050mm
净重/毛重	Net weight/Gross weight	1300/1500kg
水箱容积	Tank capacity	30L

细节展示 Standard equipment



- 普通刀架
- Normal turret

- 刀夹
- 2个圆刀夹 Ø16mm
- 2个方刀夹 16x16mm

CNC LATHE MACHINE

数控车床 L 40/50 CNC

可选：
· 广数系统

Optional control:
· GSK system

SIEMENS 808D control
西门子808D控制器



优质、高效、高性价比

- 主轴采用高速、高精度 NSK 成组角接触球轴承支承，采用高速锂基脂润滑，温升低，免维护
- 主轴电机用高过载及高速专用主轴变频电机、输出扭矩特性好
- 采用全防护结构，防止切屑及冷却液的溅出

Convincing arguments: quality, efficiency and price

- Spindle high-speed, high-precision angular contact ball bearings into a set of support, high-speed lithium grease lubrication, lower temperature and maintenance-free
- Spindle motor with high overload and high-speed dedicated frequency spindle motor, the characteristics of output torque is good
- With full protective structure to prevent chips and coolant spill

标准附件:

- 润滑系统
- 冷却系统
- LED 工作灯
- 减震垫铁
- 工具一套
- 二圆一方刀夹

Standard accessories:

- Lubricating system
- Coolant system
- LED lamp
- Damping cusion
- 1 set of tools
- Tool-holder

可选附件:

- 对刀仪 (Renishaw)
- 液压卡盘，液压尾架

Optional accessories:

- Tool setting gauge
- Hydraulic chuck and hydraulic tail-stock

型号	Model	L40	L50
产品编号	Code No.	1304000	1305000
机床电器	Electrical connection		
总功率	Total connection	11KW (14.7HP)	15KW (20HP)
主电机功率	Main motor power	7.5KW (10HP)	9KW (12HP)
冷却泵功率	Coolant pump power	370W (0.5HP)	370W (0.5HP)
加工范围	Capacity		
床身上最大回转直径	Swing over bed	Ø400mm (15.7")	Ø500mm (197")
拖板上最大回转直径	Swing over cross slide	Ø240mm (9")	Ø280mm (11")
两顶尖距离	Center width	850mm (33.5")	1000mm (39.4")
中心高	Center height	200mm (7.9")	250mm (9.8")
主轴	Spindle		
主轴鼻端	Spindle nose	A2-6	A2-8
主轴内孔锥度	Spindle taper	MT6	MT6
主轴通孔直径	Spindle bore	Ø66mm (2.6")/Ø51mm (2")	Ø100mm (3.9")
主轴转速	Spindle speed range	30-2500mm (1.2"-98.4")	30-1600mm (1.2"-63")
卡盘	Lathe chuck	Ø200mm (7.9")	Ø250mm (9.8")
刀架	Tool changer		
刀架形式	Type	electric	electric
刀架工位数	Numbers of tool position	8	6/8
刀具最大截面	Section of tool (Max)	20×20mm	25×25mm
行程	Travel		
X轴	X axis	240mm (9.4")	330mm (13")
Z轴	Z axis	750mm (29.5")	1000mm (39.4")
X轴快移速度	X axis rapid speed	6000mm/min (236.2"/min)	5000mm/min (196.9"/min)
Z轴快移速度	Z axis rapid speed	8000mm/min (315"/min)	8000mm/min (315"/min)
精度	Accuracy		
定位精度	Position accuracy	±0.025mm	±0.025mm
重复定位精度	Repeat position accuracy	±0.01mm	±0.01mm
尾座	Tailstock		
尾架锥度	Tailstock taper	MT4	MT4
尾架套筒直径	Tailstock sleeve diameter	Ø55mm (2.2")	Ø75mm (3")
尾架套筒行程	Tailstock sleeve travel	120mm (4.7")	150mm (6")
尺寸	Dimensions		
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	2540×1420×1750mm	3320×1600×1830mm
包装尺寸 (长x宽x高)	Packing size(LxWxH)	2760×1630×1953mm	3520×1800×2030mm
净重/毛重	Net weight/Gross weight	2400/2550KG	3500/3750KG
水箱容积	Tank capacity	110L	200L

细节展示 Standard equipment



- 普通刀架
- Normal turret

CNC LATHE MACHINE

数控车床 L400 CNC

可选 : Optional control:

- 广数系统
- GSK system

SIEMENS 808D control

西门子808D控制器



优质、高效、高性价比

- 床身床脚采用整体铸件，刚性好
- 床身宽 400mm
- 中间排屑
- 主轴三支撑
- 滑轨、线轨供选
- 气动弹簧夹头、排刀供选
- 多种数控系统供选

Convincing arguments: quality, efficiency and price

- Stand and base use full casting, good rigidity
- Bed way 400mm width
- Chip convey in the middle of bed
- 3 support in spindle
- Box, linear way for optional
- Pneumatic spring collet, gang tool for optional
- Multi-numerical control system for optional

可选附件:

- 变频主轴电机 7.5KW
- 主轴最大扭矩 95Nm
- 机床电气总容量 13.5Kva
- X 轴滑动导轨、Z 轴滚动导轨
- 六工位卧式电动刀架
- 排刀
- 西门子 802DSL 数控系统
- 中空液压卡盘
- 中实液压卡盘
- 气动卡盘

标准配置:

- 变频主轴电机 5.5KW
- 二轴滑动导轨
- 四工位立式电动刀架
- 自动润滑、冷却系统
- 西门子 802C 数控系统
- 西门子 802S 数控伺服 V60 驱动

Standard configuration

- Inverter spindle motor 5.5KW
- 2-axis slide guide
- 4-step vertical electric turret
- Auto lubrication and coolant system
- Siemens 802C numerical control system
- Siemens 802S numerical control servo V60 drive

Optional accessories:

- Inverter spindle motor 7.5KW
- Max spindle torque 95Nm
- Power capacity 13.5Kva
- X-axis slide guide and Z-axis rolling guide
- 6-step horizontal electric turret
- Row tool
- Siemens 802DSL numerical control system
- Hydraulic chuck with through hole
- Hydraulic chuck without through hole
- Pneumatic chuck

型号	Model	L400 CNC
产品编号	Code No.	1340000
加工范围	CAPACITY	
床身上最大工件回转直径	Swing over bed	Ø450mm
拖板上最大工件回转直径	Swing over cross slide	Ø220mm
最大工件加工长度	Length of workpiece	600mm
两顶尖中心距	Admits between	650mm
主轴	SPINDLE	
主轴端部	Spindle nose	D1-6
主轴通孔直径	Spindle bore	Ø52mm
主轴内孔锥度	Taper of spindle bore	MT6
主轴转速范围	Range of spindle speed	200-2200r/min
进给	FEEDS	
X轴行程	X-travel	250mm
Z轴行程	Z-travel	685mm
X轴快移速度(滑轨)	X rapid speed(Box way)	3000mm/min
X轴快移速度(线轨)	X rapid speed(Linear way)	10000mm/min
Z轴快移速度(滑轨)	Z rapid speed(Box way)	8000mm/min
Z轴快移速度(线轨)	Z rapid speed(Linear way)	12000mm/min
最小设定单位	Min. Input	0.001mm
重复定位精度(滑轨)	repositioning accuracy(Box way)	±0.006mm
重复定位精度(线轨)	repositioning accuracy(Linear way)	±0.004mm
刀架工位数	Nos. of tool position	4
刀具最大截面	Max.section of tool	20x20mm
尾座	TAILSTOCK	
尾座套筒直径	Quill diameter	Ø60mm
尾座套筒行程	Quill travel	160mm
尾座套筒内孔锥度	Quill taper	MT4
电机	MOTOR	
主电机功率	Main motor power	5.5KW
外形尺寸及重量	DIMENSION AND WEIGHT	
外形尺寸(长x宽x高)	Overall dimension(LxWxH)	2100X1200X2000mm
包装箱尺寸(长x宽x高)	Packing size(LxWxH)	2200X1320X2220mm
净重/毛重	NW/GW	1500/1600kg

细节展示 Standard equipment

- 电气箱
- Electric-cabinet



- 普通刀架
- Normal turret

CNC LATHE MACHINE

数控车床 L44 CNC



优质、高效与高性价比

- SIEMENS 828Basic T 数控系统
- SIEMENS 主轴与伺服电机
- 安全 PLC 及门开关
- 带冷却系统
- 自动润滑系统
- 液压卡盘，液压尾座
- 液压刀架
- X、Z 轴电子手轮

Convincing arguments: quality, efficiency and price

- Siemens 828Basic T numerical control system
- Siemens spindle and servo motor
- Safety PLC and door-switch
- With coolant system
- Automatical lubricating system
- Hydraulic chuck and hydraulic tail-stock
- Hydraulic turret
- X and Z-axis electric hand-wheel

型号	Type	L 44 CNC
产品编号	Item No	1304400
电气容量	Electrical connection	
总电机功率	Total connection	18.5 kW 400 V ~50 Hz
主轴电机功率	Power of the spindle motor	8 kW (S1 mode 7kW)
冷却泵功率	Coolant pump	270 W
水箱容积	Tank capacity	99 L
液压系统	Hydraulic system	
电机功率	Motor power	750 W
油箱容积	Tank capacity	50 L
加工范围	Machine data	
主轴中心高	Centre height	223 mm
主轴中心宽度	Centre width	850 mm
拖板上最大工件回转直径	Turning Ø over cross slide	Ø240 mm
床身上最大工件回转直径	Turning Ø over lathe bed	Ø446 mm
马鞍上最大工件回转直径	Turning Ø in the bed bridge	Ø520 mm
主轴	Spindle	
主轴转速	Spindle speed	3'000 rpm
主轴锥度	Spindle taper	MT 6
主轴孔径	Spindle hole	Ø 52 mm
液压车床夹头	Hydraulic lathe chuck	Ø 160 mm
三爪卡盘规格	Jaw chuck passage	Ø 40 mm
主轴端部	Spindle seat	Camlock ASA 2-5"
换刀	Tool changer	
液压类型	Hydraulic type	VDI 30
刀库数量	Number of tools	8
夹持刀具宽度x高度	Seat height, seat width max.	20 x 20 mm
夹持刀具最大直径	Seat diameter max.	Ø25 mm
精度	Accuracy	
重复定位精度	Repeating accuracy	0.005 mm
定位精度	Positioning accuracy	± 0.005 mm
X轴	X axis	
行程	Travel	250 mm
进给速度	Feed speed	15'000 mm/min
滚珠丝杆螺距	Ball screw	25 mm × P5 mm × C3
Z轴	Z axis	
行程	Travel	760 mm
进给速度	Feed speed	15'000 mm/min
滚珠丝杆螺距	Ball screw	40 mm × P5 mm × C3
尾座	Tailstock	
尾座套筒内孔锥度	Tailstock seat	MT 4
尾座套筒尺寸	Tailstock - sleeve diameter	52 mm
尾座套筒行程	Tailstock - sleeve travel	165 mm
体积	Dimensions	
外形尺寸	Length x Width x Height (open)	2230x1580x1795 mm
总重量	Total weight	2'100 kg

细节展示 Standard equipment



- 热交换器
- 避免电气和数控元器件过热产生故障
- Heat exchanger
- To avoid faulty because of electric and numeral control components over-heat



- 液压VDI30刀架
- Hydraulic VDI30 turret

OPTIturn® L 440 / L 460

PREMIUM
line

The OPTIMUM PREMIUM high performance CNC cycle lathe. Powerful performance. More speed. Maximum precision

- ▶ High-precision machine with the latest SIEMENS control and SIEMENS servodrives
- ▶ Compact spindle stock design
- ▶ High-speed spindle 4,500 rpm with high-precision and generously dimensioned taper roller bearings
- ▶ Shifting between the two gears occurs pneumatically via a compressed air cylinder
- ▶ Spindle stock design guarantees minimal noise development
- ▶ Wide machine bed with double-square guide rails, also for roughing work
- ▶ Bed rails tempered and polished
- ▶ Generously dimensioned tailstock, easily positionable with quick clamping mechanism
- ▶ Two separately movable sliding doors with integrated view windows at front
- ▶ Microswitch prevents starting the machine if the door is not fully closed
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Mobile control panel
- ▶ Two electronic hand wheels for manual control of the X and Z axis
- ▶ Automatic spindle stock lubrication
- ▶ Automatic lubrication of longitudinal and transverse slides
- ▶ Halogen work lamp
- ▶ Closed switch cabinet with integrated heat exchanger ensures an optimal temperature even in case of high ambient temperatures, and prevents dirt particle penetration
- ▶ Two-year SIEMENS warranty included
- ▶ "Warranty extension" on page 104

INCLUDING

Safety Integrated
Residual material detection
and machining
Shopturn work step programming
3-D simulation
Network preparation
Simultaneous recording

SIEMENS control

Sinumerik 828 D Basic T



Information "SINUMERIK 828 D BASIC T" on page 104



PREMIUM



Fig. L 460

Model	L 440	L 460
Article no.	3514410	3514420
Machine data		
Electrical connection	400 V / 3 Ph .50 Hz	400 V / 3 Ph .50 Hz
Total connected load	25 KVA	25 KVA
Spindle		
Drive motor	11 kW (S1 operation 9 kW)	11 kW (S1 operation 9 kW)
Drive motor torque	70 Nm	70 Nm
Spindle holder	DIN ISO 702-1 Nr. 6	DIN ISO 702-1 Nr. 6
Spindle hole	Ø 65 mm*	Ø 65 mm
Cooling lubricant system		
Coolant pump output	375 W	375 W
Tank capacity without chip conveyor	170 litres	240 litres
Hydraulic system		
Motor output	750 W	750 W
Tank capacity	50 litres	50 litres
Machine data		
Max. height	235 mm	235 mm
Turning length (max.)	1,000 mm	1,500 mm
Swing over cross slide	240 mm	240 mm
Swing diameter over machine bed	475 mm	475 mm
Swing in the bed bridge	710 mm	710 mm
Hydraulic lathe chuck	Ø 200 mm	Ø 200 mm
Chuck passage	Ø 52 mm	Ø 52 mm
Speed range		
Spindle speed stage 1/stage 2	100 - 950 rpm / 900 - 4,500 rpm	100 - 950 rpm / 900 - 4,500 rpm
Torque stage 1/stage 2	525 Nm / 382 Nm	525 Nm / 382 Nm
Tool turret		
Hydraulic type	LS 160 VDI 40	LS 160 VDI 40
Number of tool slots	8	8
Max. chuck height, width square	25 x 25 mm	25 x 25 mm
Max. chuck diameter drilling rod	Ø 32 mm	Ø 32 mm
Optional C axis		
Motor	5 kW	5 kW
Motor torque	15 Nm	15 Nm
Spindle speeds	6,000 rpm	6,000 rpm
Precision		
Repetition accuracy	± 0,005 mm	± 0,005 mm
Positioning accuracy	± 0,005 mm	± 0,005 mm
Travel		
X axis	260 mm	260 mm
Z axis	1,150 mm	1,680 mm
Feed speed		
X axis	15,000 mm/min	15,000 mm/min
Z axis	15,000 mm/min	15,000 mm/min
Motor torque		
X axis	6 Nm	6 Nm
Z axis	16 Nm	16 Nm
Tailstock		
Tailstock chuck	MK 4	MK 4
Tailstock quill diameter/stroke	65 mm / 150 mm	65 mm / 150 mm
Dimensions		
Length x width x height	3,030 x 1,952 x 2,025 mm	3,530 x 1,952 x 2,025 mm
Overall weight	3,000 kg	3,450 kg

* depending on installed lathe chuck

Serial equipment

- EMC
- Portable electronic handwheel
- Hydraulic tool turret LS160 VDI40
- Hydraulic three-jaw lathe chuck Ø 200 mm
- Hard and soft block jaws
- Heat exchanger
- Tailstock end cover
- Six machine feet
- Coolant system

Starter set

VDI 40

Article no.

3536116

"Lathe chucks and jaws" on page 80

Information "Starter set VDI 40" on page 113

INFORMATION

Lifting device 3514301

- A lifting device is required to unload the machine.



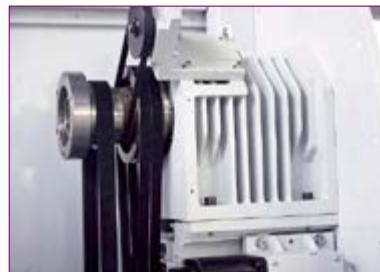
OPTIturn® L 440 / L 460

STANDARD EQUIPMENT



Machine bed

- Particularly wide design
- Ball screw drive for excellent repetition accuracy



Spindle stock

- Precision borne
- Rugged design
- Smooth action even at high spindle speeds



Heat exchanger

- Closed switch cabinet with smart cooling management ensures an optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



Speed changer

- Pneumatic
- Automatic
- The shaft runs in sintered bronze thus guaranteeing excellent precision



Laser measuring

- Guaranteed repetition and positioning accuracy



Tool turret

- 8 tool slots
- Hydraulic VDI 40
- Max. chuck height 25 mm
- Max. chuck diameter 32 mm



Tailstock

- Generously dimensioned
- Slide with ball screw and pre-stressed nut



Hydraulic power unit

- For clamping jaws, lathe chuck and tool turret
- Motor output 750 W
- Tank capacity 50 litres
- Clamping pressure/operating pressure 2,500 - 2,942 kPa



Lathe chuck

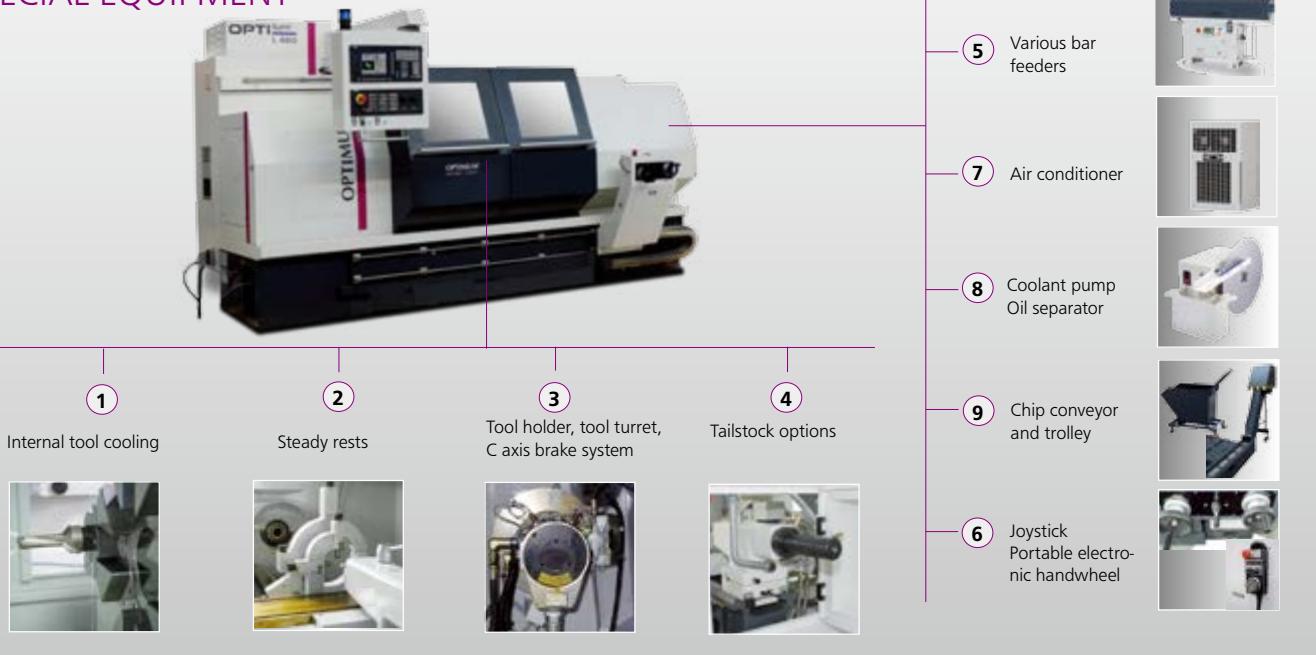
- Three-jaw lathe chuck hydraulic Ø 200 mm
- Passageway Ø 52 mm
- Easy workpiece clamping



Coolant system

- Powerful 375 W pump
- Max. delivery rate 55 l/min.
- Max. pump pressure 235 kPa

SPECIAL EQUIPMENT



	L440	L460		
1	351441001	351442001	Internal tool cooling CTS 20 bar	<ul style="list-style-type: none"> With external power unit
2	351441003	351442003	Fixed steady	<ul style="list-style-type: none"> Passageway Ø 20 - Ø 200 mm
	351441004	351442004	Travelling steady	<ul style="list-style-type: none"> Passageway Ø 20 - Ø 100 mm
	351441016	351442016	Tool holder set	<ul style="list-style-type: none"> instead of standard equipment > hydraulic tool turret LS160 - Only for standard changer, not VDI -
3	351441012	351442012	Tool turret Baruffaldi TBMA160 VDI40	<ul style="list-style-type: none"> 8 tool slots Tool drive hydraulic instead of standard equipment > tool turret LS160 VDI40
	351441017	351442017	C axis brake system	<ul style="list-style-type: none"> only with tool turret Baruffaldi TBMA 160 VDI40 (3514410 12/351442012)
	351441021	351442021	Hydraulic tailstock spindle	
	351441019	351442019	Machine preparation	Hydraulic tailstock spindle
4	351441023	351442023	Pneumatic lifting device for the tailstock	<ul style="list-style-type: none"> Pneumatic air cushion, reduces friction thus facilitating tailstock movement
	351441022	351442022	Device for travelling tailstock	<ul style="list-style-type: none"> Tailstock and support are linked for motion
	351441033	351442033	Bar feeder Pro V 65 E 1.2 metres	<ul style="list-style-type: none"> "Pro V 65 E / Pro V 65 LE" on page 81
	351441035	351442035	Bar feeder Fedek DH-65 1.2 metres	<ul style="list-style-type: none"> "FEDEK DH-65 / DH-65 L" on page 81
	351441034	351442034	Bar feeder Pro V 65 LE 1.5 metres	<ul style="list-style-type: none"> "Pro V 65 E / Pro V 65 LE" on page 81
	351441036	351442036	Bar feeder Fedek DH-65L 1.5 metres	<ul style="list-style-type: none"> "FEDEK DH-65 / DH-65 L" on page 81
	351441037	351442037	Bar feeder Interface	
6	351441020	351442020	Portable electronic handwheel	<ul style="list-style-type: none"> Instead of standard equipment > electronic handwheel (cannot be combined with joystick 3514410 02 / 351442002)
	351441002	351442002	Joystick	<ul style="list-style-type: none"> for moving the X and Z axis (cannot be combined with electronic handwheel 351441(2)0 20)
7	351441014	351442014	Air conditioner	<ul style="list-style-type: none"> Instead of standard equipment > heat exchanger
8	351441007	351442007	Oil separator	<ul style="list-style-type: none"> with rotating disc, removes oil from the coolant, capacity: 1 litre per hour
	351441013	351442013	Coolant pump	<ul style="list-style-type: none"> 5 bar
9	351441005	351442005	Chip conveyor	<ul style="list-style-type: none"> L 440: 1.0 meters - L 460: 1.5 meters
	351441006	351442006	Chip trolley	<ul style="list-style-type: none"> wheels, foldable, L x W x H: 994 x 510 x 838 mm
	9001051	9001051	Software DXF-Viewer/Reader	<ul style="list-style-type: none"> from Version 4,7

OPTIturn® L 500 / L 520

PREMIUM
line

OPTIMUM PREMIUM High performance CNC cycle lathe with the latest SIEMENS control

- ▶ High precision machine with SIEMENS servodrives
- ▶ New compact spindle stock design
- ▶ High-speed spindle 3,500 rpm with high-precision and generously dimensioned taper roller bearings
- ▶ Shifting between the two gears occurs pneumatically via a compressed air cylinder
- ▶ Spindle stock design guarantees minimal noise development
- ▶ Rugged ball screw spindle Ø 45 mm for longitudinal movement
- ▶ Tempered and precision ground, high-precision bearing mounted ball screw spindle on X and Z axis for ultra-precision translation
- ▶ Bed rails tempered and polished
- ▶ Generously dimensioned tailstock, easily positionable with quick clamping mechanism
- ▶ Two separately movable sliding doors with integrated view windows
- ▶ Microswitch prevents starting the machine if the door is not fully closed
- ▶ RJ45 plug-in connection, USB connection and power connection 230 V
- ▶ Mobile control panel
- ▶ Two electronic hand wheels for manual control for the X and Z axis
- ▶ Automatic spindle stock lubrication
- ▶ Automatic lubrication of longitudinal and transverse slides
- ▶ Swarf conveyor
- ▶ Chip carriage
- ▶ Halogen work lamp
- ▶ Two-year SIEMENS warranty included
- ▶ "Warranty extension" on page 104

INCLUDING

- Safety Integrated
- Residual material detection and machining
- Shopturn work step programming
- 3-D simulation
- Network preparation
- Simultaneous recording

SIEMENS control

Sinumerik 828 D Basic T

 "SINUMERIK 828 D BASIC T" on page 104



Fig. L 500

Starter set

VDI 40

Article no.

3536116



"Starter set VDI 40" on page 113

Serial equipment

- EMC
- Portable electronic handwheel
- Hydraulic tool turret LS160 VDI40
- Hydraulic three-jaw lathe chuck Ø 250 mm
- Hard and soft block jaws
- Tailstock end cover
- Tailstock detent
- 6 machine feet
- Coolant system
- Heat exchanger
- Swarf conveyor
- Chip carriage

INFORMATION

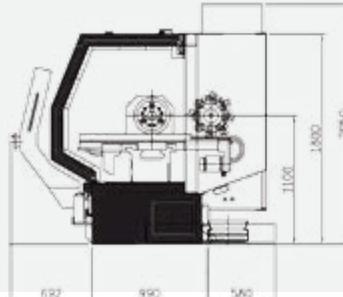
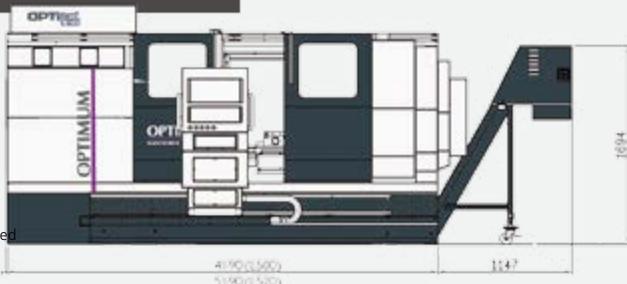
Lifting device

3514302

- For unloading the machine



Model	L 500	L 520
Article no.	3514430	3514440
Machine data		
Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
Total connected load	25 KVA	37,5 KVA
Spindle		
Drive motor	12 kW S1	15 kW S1
Drive motor torque	115 Nm	115 Nm
Spindle holder	DIN ISO 702-1 Nr. 8	DIN ISO 702-1 Nr. 8
Spindle hole	Ø 82 mm*	Ø 82 mm*
Cooling lubricant system		
Coolant pump output	450 W	450 W
Tank capacity	208 litres	260 litres
Hydraulic system		
Motor output	750 W	750 W
Tank capacity	50 litres	50 litres
Machine data		
Max. height	235 mm	235 mm
Max. turning length with tool turret	2,000 mm	3,000 mm
Swing over cross slide	310 mm	310 mm
Swing diameter over machine bed	550 mm	550 mm
Swing in the bed bridge	790 mm	790 mm
Max. workpiece weight with tailstock	2,000 kg	2,000 kg
Bed width	405 mm	405 mm
Hydraulic lathe chuck	Ø 250 mm	Ø 250 mm
Chuck passage	Ø 70 mm	Ø 70 mm
Speed range		
Spindle speed stage 1/stage 2	80 - 950 rpm / 900 - 3,500 rpm	80 - 950 rpm / 900 - 3,500 rpm
Torque stage 1/stage 2	955 Nm / 409 Nm	1.055 Nm / 535 Nm
Optional speed range		
Spindle speed stage 1/stage 2	80 - 950 rpm / 900 - 2,400 rpm	80 - 950 rpm / 900 - 2,400 rpm
Torque stage 1/stage 2	1.616 Nm / 754 Nm	1.791 Nm / 835 Nm
Tool turret		
Hydraulic type	LS 160 VDI 40	LS 160 VDI 40
Number of tool slots	12	12
Max. chuck height, width square	25 x 25 mm	25 x 25 mm
Max. chuck diameter drilling rod	Ø 32 mm	Ø 32 mm
Precision		
Repetition accuracy	± 0,005 mm	± 0,005 mm
Positioning accuracy	± 0,005 mm	± 0,005 mm
Travel		
X axis	345 mm	345 mm
Z axis	2,150 mm	3,150 mm
Feed speed		
X axis	15,000 mm/min	15,000 mm/min
Z axis	15,000 mm/min	15,000 mm/min
Motor torque		
X axis	11 Nm	11 Nm
Z axis	20 Nm	20 Nm
Tailstock		
Tailstock chuck	MK 5	MK 5
Tailstock quill diameter	80 mm	80 mm
Tailstock quill stroke	150 mm	150 mm
Dimensions		
Length with/without chip conveyor x w x h	4.190 / 5.337 x 2.262 x 2.050 mm	5.190 / 6.337 x 2.262 x 2.050 mm
Overall weight	5,170 kg	6,200 kg

Dimensions

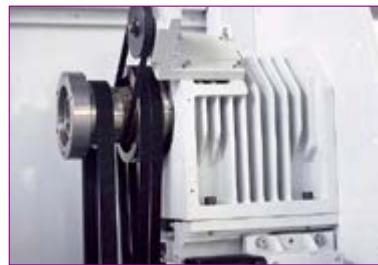
OPTIturn® L 500 / L 520

STANDARD EQUIPMENT



Machine bed

- Particularly wide design
- Higher fast motion
- Ball screw drive for excellent repetition accuracy



Spindle stock

- Pneumatic, automatic speed changer
- Fully automatic mode
- Shaft on manual transmission made of sintered bronze for high precision



Heat exchanger

- Closed switch cabinet with smart cooling management ensures an optimal temperature even in case of high ambient temperatures
- Prevents dirt particles entering



Machine bed

- Full Z axis stroke (the actual rotation capacity of the Z axis on other competitor machines on the market is 10-20% less)



Laser measuring

- Guaranteed repetition and positioning accuracy



Tool turret

- Eight tool slots
- Hydraulic VDI 40
- Max. chuck height 25 mm
- Max. chuck diameter 32 mm



Chip trolley/conveyor

- Chip conveyor makes work easier and saves time
- The chip trolley is rollable and folding



Chip cleaning

- A slanted shape along the bed allows the chips to drop directly into the chip tray
- Slanted design of the door prevents the chips accumulating on the door



Lathe chuck

- Three-jaw lathe chuck hydraulic Ø 250 mm
- Passageway 69 mm
- Easy workpiece clamping



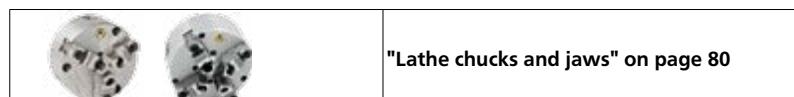
Guide bearing

- Coated
- Hand shaven for highest precision

SPECIAL EQUIPMENT

**1**
Internal tool cooling**2**
Steady rests**3**
Tool turret,
C axis brake system**4**
Tailstock options**5**
Various bar feeders**6**
Joystick
Portable electronic handwheel**7**
Air conditioner**8**
Coolant pump
Oil separator**9**
Drive motor

	L500	L520	
1	351443001	351444001	Internal tool cooling CTS 20 bar
	351443003	351444003	Fixed steady
2	351443014	351444013	Fixed steady
	351443015	351444014	Fixed steady
	351443004	351444004	Travelling steady
3	351443011	351444010	Tool turret Baruffaldi TBMA160 VDI40
	351443012	351444011	C axis brake system
4	351443018	351444017	Hydraulic tailstock spindle
	351443016	351444015	Machine preparation for hydraulic tailstock spindle
	351443019	351444018	Larger tailstock quill
5	351443031	351444031	Bar feeder Pro V 65 E 1.2 metres
	351443032	351444032	Bar feeder Fedek DH-65 1.2 metres
5	351433033	351434033	Bar feeder Pro V 65 LE 1.5 metres
	351433034	351434034	Bar feeder Fedek DH-65L 1.5 metres
	351443035	351444035	Bar feeder interface
6	351443017	351444016	Portable electronic handwheel
6	351443002	351444002	Joystick
7	351443027	351444025	Air conditioner
8	351443022	351444020	Oil separator
8	351443021	351444028	High performance coolant pump
9	9001051		Software DXF-Viewer/Reader
	351443010	351444009	Drive motor 15 kw (S1)



"Lathe chucks and jaws" on page 80

CNC LATHE MACHINE

数控车床 L560/L660 CNC

- 可选：
• 广数系统

- Optional control:
• GSK system

SIEMENS 808D control
西门子808D控制器



■ L 560 CNC



■ L 660 CNC

优质、高效、高性价比

- 齿轮换挡，变频调速，主轴变速范围广，低速扭矩大
- 整体床脚，刚性高，精度稳定

Convincing arguments: quality, efficiency and price

- Range of gear wheel shift, variable frequency control and speed change is wide, torque in low-speed is big
- Whole stand, high rigidity, stable precision

标准配置:

- 西门子 808D 控制系统
- Φ250 三爪卡盘
- 6 工位卧式电动刀架
- 自动润滑系统
- 双拉门

Standard configuration

- Siemens 808D numerical control system
- Φ250 3-jaw chuck
- 6-step horizontal electric turret
- Automatical lubricating system
- Dual-sliding door

标准附件:

- 油枪
- 变径套及顶尖
- 扳手

Standard accessories:

- Oil-gun
- Reduction sleeve and live center
- Wrench

可选附件:

- 八工位卧式电动刀架
- 中空液压卡盘 φ250mm
- 套装数控可转位组合车刀
- GSK988T 数控系统
- Fanuc Oi mate 数控系统
- CE 标准

Optional accessories:

- 8-step horizontal electric turret
- Hydraulic chuck with inside empty
- CNC rotaty turning tool
- GSK988T numeral control system
- Fanuc oi mate numeral control system
- CE standard

型号	Model	L560 CNC x 1000/1500	L660 CNC x 1500/2000
产品编号	Code No.	1356000/1356100	1366000/1366100
加工范围	CAPACITY		
床身上最大工件回转直径	Swing over bed	Ø560mm	Ø660mm
拖板上最大工件回转直径	Swing over cross slide	Ø355mm	Ø440mm
两顶尖中心距	Admits between	1000mm/1450mm	1500mm
主轴	SPINDLE		
主轴端部	Spindle nose	D1-8	D1-8
主轴通孔直径	Spindle bore	Ø80mm	Ø105mm
主轴内孔锥度	Taper of spindle bore	MT7	Ø113(1:20)
主轴转速范围	Range of spindle speed	32-2000 rpm	15-1500 rpm
进给	FEEDS		
X轴行程	X-travel	250mm	370mm
Z轴行程	Z-travel	1340mm	1460mm
X轴快移速度	X rapid speed	3000mm/min	7500mm/min
Z轴快移速度	Z rapid speed	6000mm/min	9000mm/min
最小设定单位	Min. Input	0.001mm	0.001mm
X向定位精度	X positioning accuracy	±0.01mm	±0.015mm
Z向定位精度	Z positioning accuracy	±0.015mm	±0.02mm
X向重复定位精度	X repositioning accuracy	±0.006mm	±0.006mm
Z向重复定位精度	Z repositioning accuracy	±0.01mm	±0.01mm
刀架工位数	Nos. of tool position	8	6 or 8
刀具最大截面	Max.section of tool	25x25mm	32x32mm
尾座	TAILSTOCK		
尾座套筒直径	Quill diameter	Ø75mm	Ø90mm
尾座套筒行程	Quill travel	Ø180mm	Ø235mm
尾座套筒内孔锥度	Quill taper	MT5	MT5
电机	MOTOR		
主电机功率	Main motor power	7.5KW	7.5KW
冷却泵功率	Coolant pump power	0.09KW	0.09KW
外形尺寸及重量	DIMENSION AND WEIGHT		
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	3100X1220X1930mm	3120X1900X1870mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	3400X1400X2240mm	3300X2300X2200mm
净重/毛重	NW/GW	2350/2750kg	2100/3600kg

细节展示 Standard equipment



- 尾架
- Tail-stock



- 冷却水箱
- Coolant tank

CNC LATHE MACHINE

数控车床 S400E/S600 CNC

可选：
· 广数系统

Optional control:
· GSK system

(Slant bedway 斜床身)

SIEMENS 808D control
西门子808D控制器



优质、高效、高性价比

- 高强度树脂砂铸件，床身稳定可靠
- 欧盟级安全标准
- 进口线轨、滚珠丝杆、精密螺母，高精度主轴轴承
- 配动力刀塔，实现车铣复合式加工
- 配西门子 828D 系统及全套西门子驱动电机，实现高精度、高性能
- 机床配自动润滑系统、自动排屑机构等
- 可选配自动送料机等辅助设备，实现机床的自动化，无人值守
- 机床选配功能丰富，可满足不同客户的要求

Convincing arguments: quality, efficiency and price

- Strong resin sand casting with lathe bed more stable and reliable
- Conform to European Safety Standards
- Imported linear-guide, ball-screw, precision-nut and high-precision spindle bearing
- Equipped with power-turret which can realize the turning & milling composite machining
- Siemens 828D numerical control system and full-set of Siemens driver-motor which can realize high-precision and high-performance
- Automatic lubricating system and automatic chip conveyor etc
- For optional have auxiliary equipment (such as automatic feeder machine) which can realize machine automation and unattended operation
- For optional have rich function which can satisfy the requirement of various customers

细节展示 Standard equipment



· 液压尾座
· Hydraulic tail-stock



· Renishaw刀具测量
· 探头(可选)
· Tool measuring
· sensor (Optional)



· 排屑机及小车 (可选)
· Chip conveyor and
· cart (Optional)



S400E
· 液压刀架
· 动力刀架 (可选)
· Hydraulic turret
· Electric turret (Optional)



S600
· 液压站
· Hydraulic station



· 自动润滑泵
· 折叠式
· Auto-lubrication
· pump
· Folding-type

型号	Type	S400E CNC	S600 CNC
产品编号	Code No.	1540000	1560000
床身上最大回转直径	Swing over bed	Ø450mm	Ø500mm
拖板上最大回转直径	swing over cross slide	Ø220mm	Ø250mm
行程	Travel		
X轴	X axis	230mm	250mm
Z轴	Z axis	530mm	850mm
主轴	Spindle		
主轴通孔直径	Spindle hole diameter	Ø51mm (可选optional Ø79mm)	Ø51mm (可选optional Ø79mm)
主轴转速	Spindle speed	4500rpm (Ø79mm 3000rpm)	4500rpm(Ø79mm 3000rpm)
电机功率	Motor Power	7.5KW (可选optional 12/15KW)	12KW
轴向进给率	Axes feed rate		
X轴快速进给率	X axis Rapid feed	12m/min	12m/min
Z轴快速进给率	Z axis Rapid feed	10m/min	10m/min
精度	Accuracy		
定位精度	Positioning accuracy	±0.025mm	±0.025mm
重复精度	Repeatability accuracy	±0.01mm	±0.01mm
切削能力	Capacity		
刀具最大截面	Max. section of tool	25x25mm	25x25mm
最大切削直径	Max. turning diameter(with turret)	Ø400mm	Ø420mm
最大切削长度	Max. turning length(with turret)	430mm	750/1000mm
床身斜度 (角度)	Slant bed degree	45°	30°
尾座	Tailstock		
套筒行程	Quill travel	100mm	100mm
套筒直径	Quill diameter	Ø72mm	Ø72mm
套筒锥度	Quill inside taper	MT4	MT4
冷却	Coolant		
电机	Pump motor	650W	650W
水箱容量	Tank capacity	200L	250L
外形尺寸及重量	Dimensions and weight		
外形尺寸	Dimension	3650x1410x1760mm	3970x1600x1860mm
包装尺寸	Packing size	2816x2240x1998mm	3140x2430x2100mm
净重/毛重	Net weight/Gross weight	3500/4100kg	4000/4500kg



标准附件

- 25mm 圆刀夹两个
- 25×25mm 方刀夹一个

Standard accessories

- tool holder for round tool 25 mm
- tool holder for square tool 25 x 25 mm

CNC LATHE MACHINE

数控车床 S400PS/S600PS CNC

可选：
• 广数系统

Optional control:
• GSK system



(Slant bedway 斜床身)

SIEMENS 808D control
西门子808D控制器



LS-120SP (S400PS 配 LS-120SP)

VDI ø20,12 tools center Dia.ø240 mm

Turret center height 63 mm

VDI ø20,12 刀, 刀具中心 ø240 mm

刀塔中心高 63 mm

SERVO TURRET:

- Mitsubishi Servomotor:HG-KR43JK;Gear ratio 1:48
- Hydraulic power source:P=30kg/cm²;
Hydraulic cylinder clamping force 1640kg

POWERED TOOL HOLDER:

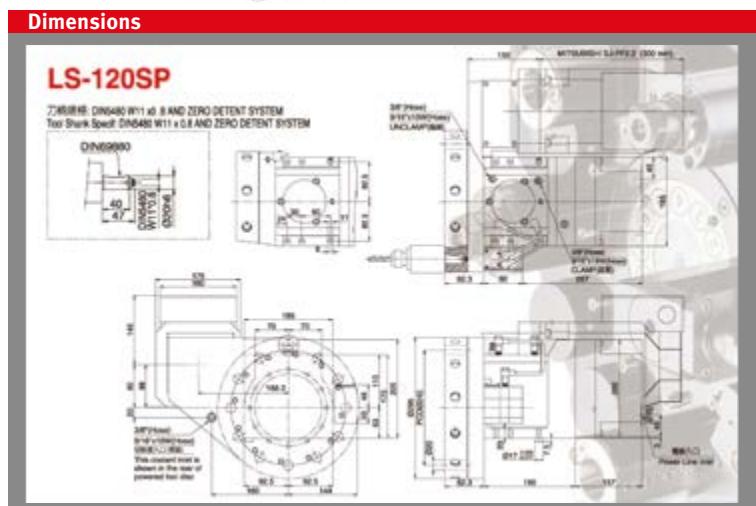
- Tool shank specifications:DIN5480 W11x0.8 and zero detent system
- Max. tool speed:5000 rpm.
- Spindle motor specification:Mitsubishi SJ-PF2.2-01 1.5/2.2 KW
Fanuc α 1.5 1.1/2.2 KW
- Tool and motor transmission gear ratio 1:1

伺服刀塔部分：

- 三菱伺服马达:HG-KR43JK;齿比1:48
- 油压动力源:P=30kg/cm²;油缸夹持力1640kg

动力刀盘部分：

- 刀柄规格:DIN5480 W11x0.8 and zero detent system
- 刀具最高转速:5000 rpm.
- 主轴马达规格:Mitsubishi SJ-PF2.2-01 1.5/2.2 KW
Fanuc α 1.5 1.1/2.2 KW
- 刀具与马达传动齿比1:1



型号	Type	S400PS CNC	S600PS CNC
产品编号	Code No.	1540100	1560100
床身上最大回转直径	Swing over bed	Ø450mm	Ø500mm
拖板上最大回转直径	swing over cross slide	Ø220mm	Ø250mm
行程	Travel		
X轴	X axis	230mm	250mm
Z轴	Z axis	530mm	850mm
主轴	Spindle		
主轴通孔直径	Spindle hole diameter	Ø51mm (可选optional Ø79mm)	Ø51mm (可选optional Ø79mm)
主轴转速	Spindle speed	4500rpm (Ø79mm 3000rpm)	4500rpm (Ø79mm 3000rpm)
电机功率	Motor Power	7.5KW (可选optional 12/15KW)	12KW
轴向进给率	Axes feed rate		
X轴快速进给率	X axis Rapid feed	12m/min	12m/min
Z轴快速进给率	Z axis Rapid feed	10m/min	10m/min
精度	Accuracy		
定位精度	Positioning accuracy	±0.025mm	±0.025mm
重复精度	Repeatability accuracy	±0.01mm	±0.01mm
切削能力	Capacity		
刀具最大截面	Max. section of tool	25x25mm	25x25mm
最大切削直径	Max. turning diameter(with turret)	Ø400mm	Ø420mm
最大切削长度	Max. turning length(with turret)	430mm	750/1000mm
床身斜度(角度)	Slant bed degree	45°	30°
尾座	Tailstock		
套筒行程	Quill travel	100mm	100mm
套筒直径	Quill diameter	Ø72mm	Ø72mm
套筒锥度	Quill inside taper	MT4	MT4
冷却	Coolant		
电机	Pump motor	650W	650W
水箱容量	Tank capacity	200L	250L
外形尺寸及重量	Dimensions and weight		
外形尺寸	Dimension	3650x1410x1760mm	3970x1600x1860mm
包装尺寸	Packing size	2816x2240x1998mm	3140x2430x2100mm
净重/毛重	Net weight/Gross weight	3600/4100kg	4100/4600kg

LS-160SP (S600PS 配 LS-160SP)

VDI Ø30,12 tools center Dia.Ø270 mm

Turret center height 80 mm

VDI Ø30,12 刀, 刀具中心 Ø270 mm

刀塔中心高 80 mm

SERVO TURRET:

- Mitsubishi Servomotor:HG-SP102JK;Gear ratio 1/24
- Hydraulic power source:P=30kg/cm²;
Hydraulic cylinder clamping force 2500kg

POWERED TOOL HOLDER:

- Tool shank specifications:DIN5480 W16×0.8 and zero detent system
- Max. tool speed:5000 rmp.
- Spindle motor specification:Mitsubishi SJ-PF3.7-01 2.2/3.7 KW
Fanuc α 2 2.2/3.7 KW
Siemens 1FT6084-8AK71/4.1 KW
- Tool and motor transmission gear ratio 1:1

伺服刀塔部分 :

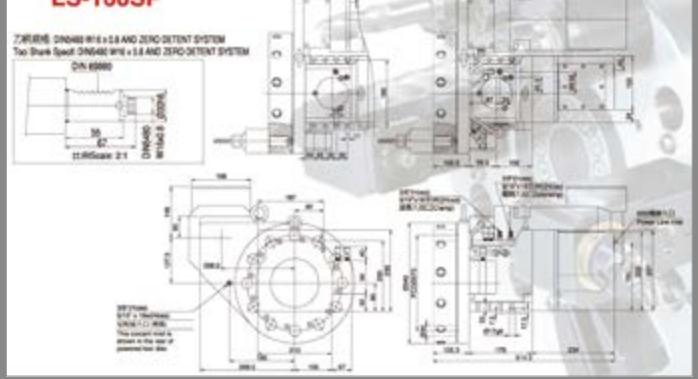
- 三菱伺服马达:HG-SR102JK;齿比1/24
- 油压动力源:P=30kg/cm²;油缸夹持力2500kg

动力刀盘部分 :

- 刀柄规格 :DIN5480 W16×0.8 and zero detent system
- 刀具最高转速:5000 rmp.
- 主轴马达规格:Mitsubishi SJ-PF3.7-01 2.2/3.7 KW
Fanuc α 2 2.2/3.7 KW
Siemens 1FT6084-8AK71/4.1 KW
- 刀具与马达传动齿比1:1



LS-160SP

Dimensions**LS-160SP**

OPTIturn® S 500 / S 750

**PREMIUM
line**

The **OPTIMUM PREMIUM** CNC lathe impresses with high speeds, precision and efficiency and with additional equipment such as chip conveyors and a C axis

- ▶ Rugged and heavy "cartridge" spindle system with one two-row cylinder roller bearing each at the front and back, and a double-side taper bearing in the centre
 - ▶ Long service life of all bearings thanks to permanent lubrication
 - ▶ All axes with SIEMENS servomotors
 - ▶ All axes directly driven to eliminate torsion backlash or for greater precision in thread tapping and contour machining
 - ▶ Doubly pre-stressed ball screw spindles with low helix slope to increase feed force
 - ▶ Fast turret head switching - releasing and rotation occur practically at the same time
 - ▶ Turret head switching occurs non-stop bi-directionally
 - ▶ Tailstock quill is activated with the pedal or in the program
 - ▶ Tailstock body positioned with a drive rod which moves in with the slide
 - ▶ Clamping and releasing of the drive rod are programmable
 - ▶ Portable electronic handwheel
 - ▶ Preparation for bar feeder
 - ▶ Hydraulic tool turret by Sauter with driven tools
 - ▶ Automatic door opening with monitoring
 - ▶ Chip conveyor and chip trolley
 - ▶ Automatic Renishaw measuring arm for measuring tools
 - ▶ Part grippers
 - ▶ Two-year SIEMENS warranty included
 - ▶ "Warranty extension" on page 106

INCLUDING

- Safety Integrated
- Residual material detection
- and machining
- Work step programming
- 3-D simulation
- Network preparation
- Simultaneous recording

SIEMENS control
SINUMERIK 828D

 "SINUMERIK 828D" on page 106



Fig. S 500



- We urgently recommend initial training by our qualified staff.

"CNC introductory training" on page 96



Model	S 500	S 750
Article no.	3515150	3515170
Machine data		
Electrical connection	400 V / 3 Ph .50 Hz	400 V / 3 Ph .50 Hz
Total connected load	50 KVA	62,5 KVA
Spindle		
Drive motor	17 kW	30 kW
Drive motor torque	162 Nm	186 Nm
Spindle holder	DIN ISO 702-1 Nr. 6	DIN ISO 702-1 Nr. 8
Spindle hole	Ø 66 mm*	Ø 88 mm*
Cooling lubricant system		
Coolant pump output	750 W	750 W
Tank capacity	185 litres	185 litres
Hydraulic system		
Motor output	1.5 kW	1.5 kW
Tank capacity	70 litres	70 litres
Machine data		
Max. height	600 mm	600 mm
Max. turning length* with tool turret	750 mm	1,250 mm
Swing over cross slide	450 mm	450 mm
Swing diameter over machine bed	600 mm	600 mm
Max. turning diameter	485 mm	485 mm
Angled bed	45°	45°
Hydraulic lathe chuck	Ø 200 mm	Ø 250 mm
Chuck passage	Ø 52 mm	Ø 77 mm
Speed range		
Spindle speeds	10 - 4.000 rpm	10 - 3,000 rpm
Tool turret		
Hydraulic type	Sauter VDI40 with tool drive	Sauter VDI40 with tool drive
Number of tool slots	12	12
Max. permissible speed at tool coupling	max. 4,000 rpm	max. 4,000 rpm
Tool output	4.82 KW	4.82 KW
Max. tool torque	20 Nm	20 Nm
Max. chuck height, width square	25 x 25 mm	25 x 25 mm
Max. chuck diameter drilling rod	Ø 32 mm	Ø 32 mm
Precision		
Repetition accuracy	± 0.005 mm	± 0.005 mm
Positioning accuracy	± 0.005 mm	± 0.005 mm
Travel		
X axis	305 mm	305 mm
Z axis	750 mm	1,250 mm
Y axis (optional)	+/- 50 mm	+/- 50 mm
Feed speed		
X/Z axis	24,000 mm/min	24,000 mm/min
Motor torque		
X axis	11 Nm	11 Nm
Z axis	27 Nm	27 Nm
Tailstock		
Tailstock chuck	MK 5	MK 5
Travel	650 mm	1,150 mm
Tailstock quill diameter	90 mm	90 mm
Tailstock - quill stroke hydraulic	120 mm	120 mm
Dimensions		
Length with/without chip conveyor	3,015 / 4,114 mm	3,515 / 4,614 mm
width x height	1,856 x 2,016 mm	1,856 x 2,016 mm
Overall weight	5,400 kg	6,500 kg

* other turning lengths on request
 * depending on installed lathe chuck

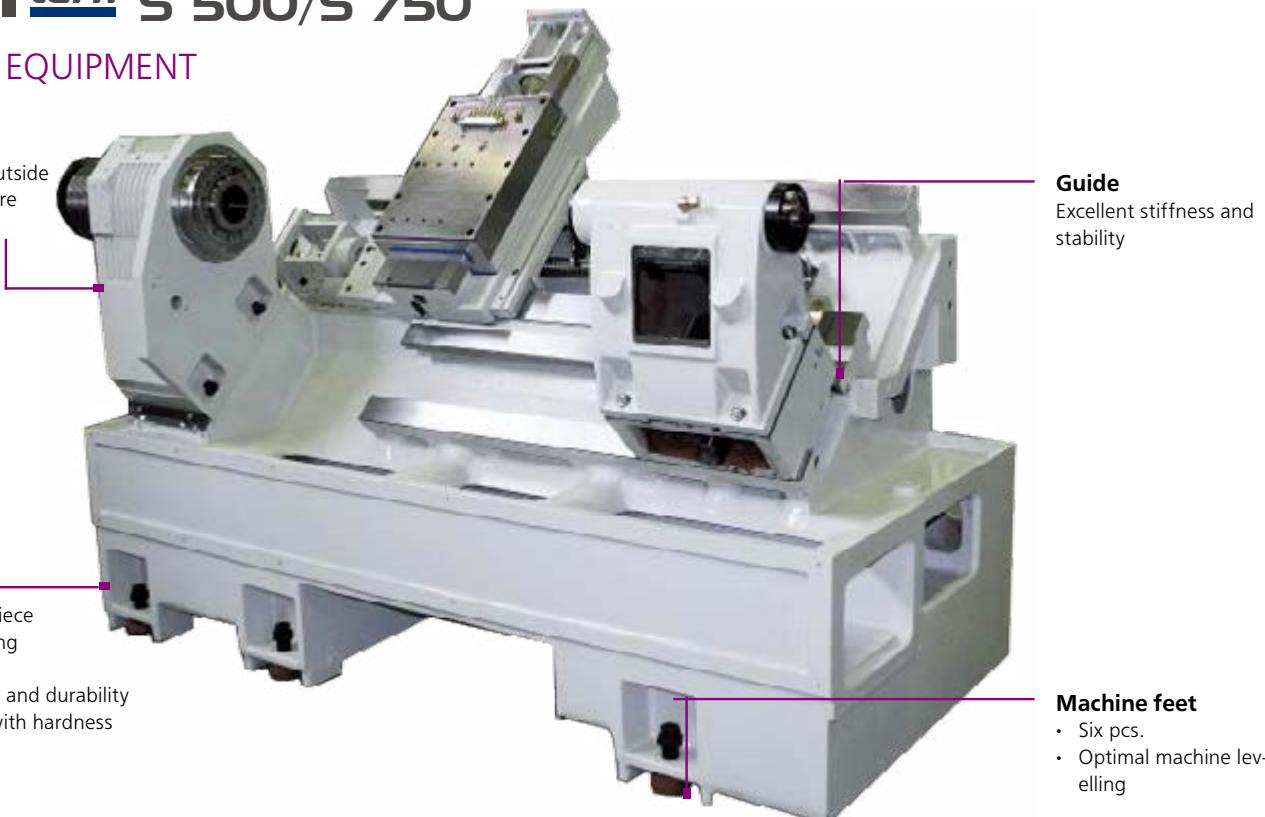
Serial equipment		
• C axis brake system	• Programmable tailstock	• Swarf conveyor
• Automatic Renishaw tool measuring	• Coolant system	• Chip carriage
• Portable electronic handwheel	• Heat exchanger	• Operating tool
• Hydraulic tool turret VDI 40 Sauter	• Bar feeder interface	• Parts gripper
• Hydraulic three-jaw lathe chuck Ø 200 mm S 500	• Spindle interior cooling CTS 20 bar	• Automatic door opener
• Hydraulic three-jaw lathe chuck Ø 250 mm S 750		

OPTIturn® S 500/S 750

STANDARD EQUIPMENT

Spindle stock

- Cast meehanite
- Cooling ribs on outside dissipate heat more effectively



Machine bed

Cast from a single piece

- Pronounced ribbing
- 45-degree slope
- Excellent stiffness and durability
- Cast meehanite with hardness HB 170 ~ 180



Laser measuring

- Guaranteed repetition and positioning accuracy



Tool changer system and C axis

- Excellent part precision and fast tool changes
- Swivel range high torque and maximum stability
- Tool-to-tool time: 0.35 seconds
- 180 degrees: 1.2 seconds



Programmable tailstock

- Heavy duty version
- Excellent stiffness
- Optionally via a program or directly by the operator with the standard foot pedal



Internal tool cooling CTS

- Pressure: 20 bar
- Filter precision 25µm



Part gripper device

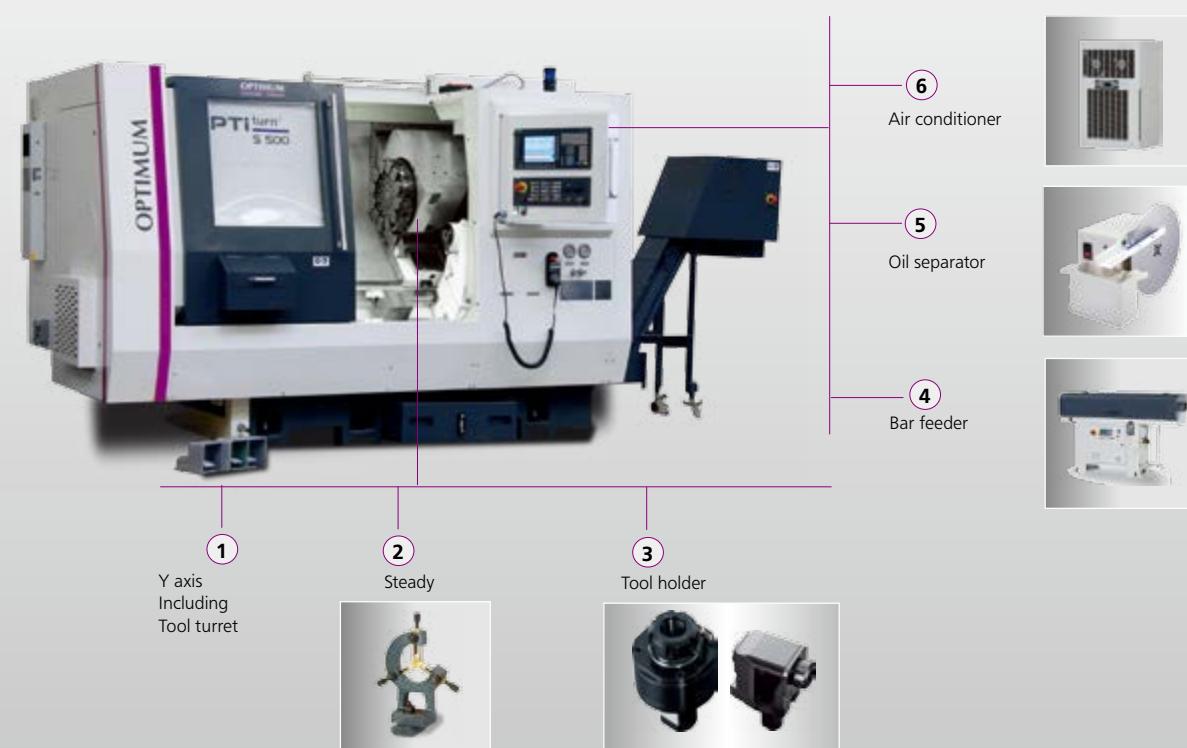
- Automatic



Preparation for bar feeder

- Connection for bar feeder

SPECIAL EQUIPMENT



	S 500	S 750		
①	351515018	351517018	Y axis includes Sauter tool turret with drive	<ul style="list-style-type: none"> Stroke +/- 50 mm* instead of standard equipment > hydraulic tool turret
②	351515010	351517010	Fixed steady	<ul style="list-style-type: none"> Passage Ø 20 mm to Ø 200 mm
③	351515006	351517006	Axially driven tool holder	<ul style="list-style-type: none"> Spring collet ER 32
③	351515007	351517007	Radially driven tool holder	<ul style="list-style-type: none"> Spring collet ER 32
③	351515008	351517008	Radially driven tool holder on rear side	<ul style="list-style-type: none"> Spring collet ER 32
④	351515003	351517003	Bar feeder Pro V 65 E 1.5 metres	<ul style="list-style-type: none"> "Pro V 65 E / Pro V 65 LE" on page 81
④		351517002	Bar feeder Fedek DH-65L 1.5 metres	<ul style="list-style-type: none"> "FEDEK DH-65 / DH-65 L" on page 81
	351515012	351517012	Bar feeder Pro V 65 LE 3.2 metres	<ul style="list-style-type: none"> "Pro V 65 E / Pro V 65 LE" on page 81
⑤	351515001	351517001	Oil separator	<ul style="list-style-type: none"> With rotary disc, removes oil from the coolant Capacity: 1 litre per hour
⑥	351515009	351517009	Air conditioner	<ul style="list-style-type: none"> for the switch cabinet Instead of standard equipment > heat exchanger
	9001051		Software DXF-Viewer/Reader	<ul style="list-style-type: none"> from Version 4,7

* longer stroke on request



CNC LATHE MACHINE

数控车床 SK61128/148/168/198/208



SK61198

标准附件:

- FANUC OI -TD / GSK / SIEMENS
- 冷却系统
- 标准工作灯
- 四工位电动刀架
- 重型四爪卡盘 (螺钉、扳手)
- 主轴顶尖 莫氏 6#
- 刀架板子
- 中心架
- 重叠式双拉门半防护罩
- 自动润滑系统
- 强力风扇
- 电动尾座
- 顶尖套

Standard accessories:

- FANUC OI-TD/GSK/SIEMENS
- Coolant system
- Standard working lamp
- 4-step electric turret
- Heavy-type 4-jaw chuck (screw, wrench)
- Spindle taper Morse tape 6#
- Turret plate
- Steady rest
- Overlapping dual-sliding door semi-protective housing
- Automatical lubricating system
- Powerful fan
- Electric tail-stock
- Center sleeve

可选附件:

- 液压尾座 + 液压卡盘
- 六工位电动刀架
- 八工位电动刀架
- 跟刀架

Optional accessories:

- Hydraulic tail-stock and hydraulic chuck
- 6-step electric turret
- 8-step electric turret
- Follow-rest

注意: 中心架, 跟刀架带与不带, 带多大等信息都需要具体询问!

Note: Pls contact us for further information about with or without steady rest and follow rest as well as the size of them !

型号	MODEL	SK61128	SK61148	SK61168	SK61198	SK61208
产品编号	Code No.	1312200	1314200	1316200	1319200	1320200
床身上最大回转直径	Max swing over bed	Ø1280mm	Ø1480mm	Ø1680mm	Ø1980mm	Ø2080mm
横拖板最大回转直径	Max swing over cross slide	Ø840mm	Ø1040mm	Ø1240mm	Ø1540mm	Ø1640mm
顶尖距	Center distance	2-16M	2-16M	2-16M	2-16M	2-16M
主轴孔径	Spindle hole	Ø130mm	Ø130mm	Ø130mm	Ø130mm	Ø130mm
床身宽度	Bed width	1100mm	1100mm	1100mm	1100mm	1100mm
尾座套筒直径	Diameter of tailstock sleeve	Ø260mm				
刀架位移最大距离	Max distance of moving tool-post					
纵向	Longitude	两顶尖距 Admits between -600mm				
横向	Transverse	800mm	800mm	800mm	800mm	800mm
主轴转速范围 (级数)	Spindle speeds(Number)	3.15-315r/min or 2.5-250(21)r/min or 2-200r/min 25-100 65-250				
主电机功率	Main motor power	30kw				
快速移动速度	Speed of high-speed movement					
纵向	Longitude	4000mm/min				
横向	Transverse	3000mm/min				
刀架装刀数 (自动换刀)	Tool numbers on tool-post	4 (6、8 可选 optional)				
定位精度	Positioning accuracy					
纵向	Longitude	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm
横向	Transverse	0.03mm	0.03mm	0.03mm	0.03mm	0.03mm
机床重复定位精度	Repeatability					
纵向	Longitude	±0.025mm	±0.025mm	±0.025mm	±0.025mm	±0.025mm
横向	Transverse	±0.012mm	±0.012mm	±0.012mm	±0.012mm	±0.012mm
刀架重复定位精度	Repeatability accuracy of tool-post	±0.005mm	±0.005mm	±0.005mm	±0.005mm	±0.005mm
净重 (KG)	NET WEIGHT					
SK61168×4000mm	SK61168×4000mm	22000kg	22000kg	22000kg	22000kg	22000kg
外形尺寸 (长×宽×高)	FLOOR SPACE(L×W×H)					
SK61168×4000mm	SK61168×4000mm	7300×3000×2500 mm				

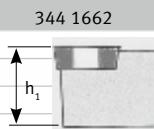
Accessory parts for turning	Item No	S600CNC	S400E	L600CNC	L560CNC	L44CNC	L400CNC	L50CNC	L40CNC	L34HS CNC	L33HS CNC	L28HS CNC	L28 CNC	
Lathe tool HM 8 mm	3441662													
Lathe tool HM 10 mm	3441664													
Lathe tool HM 12 mm	3441666												●	●
Lathe tool HM 12 mm	3441212												●	●
Lathe tool HM 16 mm	3441668												●	●
Lathe tool HM 16 mm	3441216												●	●
Lathe tool HM 16 mm	3441610												●	●
Lathe tool HM 20 mm	3441670									●	●	●		
Lathe tool HM 20 mm	3441617									●	●	●		
Lathe tool HM 25 mm	3441672		●	●		●				●				
Lathe tool HM 25 mm	3441623		●	●		●				●				
Lathe tool HM 32 mm	3441674					●								
Internal turning tool kit 10 mm	3441640													●
Internal turning tool kit 12 mm	3441641													●

Lathe tool

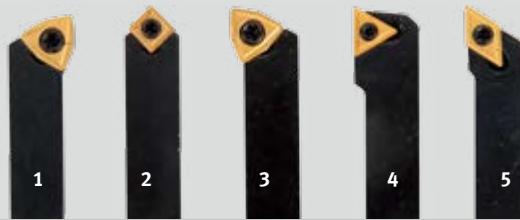
Internal turning tool

Lathe tool kit HM 8 mm**Lathe tool kit HM 8 mm**

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case



No.	ISO			h1
1	SWG C	L0808	D05	8 mm
2	SSDC	N0808	D06	8 mm
3	SWG C	R0808	D05	8 mm
4	STGC	R0808	D09	8 mm
5	SDJC	R0808	D07	8 mm

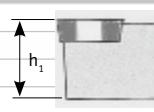
**HM- spare inserts (5 pcs.)**

No.	ISO	D1	D2	B1	S1	Re	Item No.
1/3	WCMT050308	7,94	3,2	80°	3,18	0,8	344 1759
2	SCMT060204	6,35	2,8	90°	2,38	0,4	344 1761
4	TCMT090204	5,56	2,5	60°	2,38	0,4	344 1760
5	DCMT070204	6,35	2,8	55°	2,38	0,4	344 1758

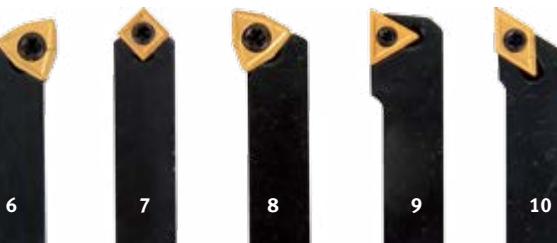
Lathe tool kit HM 10 mm**Lathe tool kit HM 10 mm**

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case

344 1664



No.	ISO			h1
6	SWG C	L1010	E05	10 mm
7	SSDC	N1010	E06	10 mm
8	SWG C	R1010	E05	10 mm
9	STGC	R1010	E09	10 mm
10	SDJC	R1010	E07	10 mm

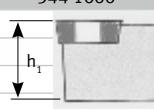
**HM- spare inserts (5 pcs.)**

No.	ISO	D1	D2	B1	S1	Re	Item No.
6/8	WCMT050308	7,94	3,2	80°	3,18	0,8	344 1759
7	SCMT060204	6,35	2,8	90°	2,38	0,4	344 1761
9	TCMT090204	5,56	2,5	60°	2,38	0,4	344 1760
10	DCMT070204	6,35	2,8	55°	2,38	0,4	344 1758

Lathe tool kit HM 12 mm**Lathe tool kit HM 12 mm**

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case

344 1666



No.	ISO			h1
11	SWG C	L1212	H 05	12 mm
12	SSDC	N1212	H 09	12 mm
13	SWG C	R1212	H 05	12 mm
14	STGC	R1212	H 11	12 mm
15	SDJC	R1212	H 07	12 mm

**HM- spare inserts (5 pcs.)**

No.	ISO	D1	D2	B1	S1	Re	Item No.
11/13	WCMT050308	7,94	3,2	80°	3,18	0,8	344 1759
12	SCMT09T304	6,35	2,8	90°	2,38	0,4	344 1763
14	TCMT110204	6,35	2,8	60°	2,38	0,4	344 1762
15	DCMT070204	6,35	2,8	55°	2,38	0,4	344 1758

Lathe tool kit HM 12 mm



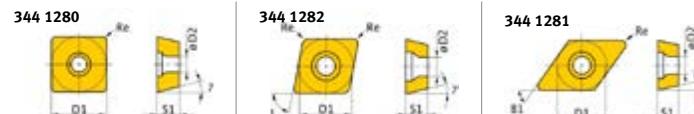
Lathe tool kit HM 12mm

- 5 pieces
- With HM inserts
- TiN-coated

344 1212



HM- spare inserts (5 pcs.)



No.	ISO	D1	D2	B1	S1	Re	Item No.
16	SCMT09T304	9.525	4.4	90°	3.97	0.4	344 1280
17	CCMT09T304	9.525	4.4	80°	3.97	0.4	344 1282
18-20	DCMT11T304	9.525	4.4	55°	3.97	0.4	344 1281

No.	ISO			h1
16	SSSC	R1212	J09	12 mm
17	SCLC	R1212	J09	12 mm
18	SDNC	N1212	J11	12 mm
19	SDJC	R1212	J11	12 mm
20	SDJC	L1212	J11	12 mm

Single lathe tool 12 mm

16	SSSC R1212J09	344 1220	74,00
17	SCLC R1212J09	344 1221	74,00
18	SDNC N1212J11	344 1222	74,00
19	SDJC R1212J11	344 1223	74,00
20	SDJC L1212J11	344 1224	74,00

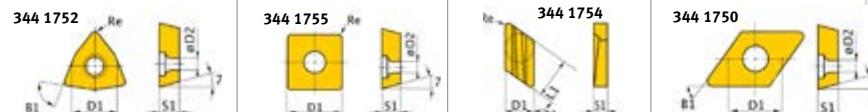
Lathe tool kit HM 16 mm

Lathe tool kit HM 16 mm				344 1668
• 5 pieces				
• With HM inserts				
• TiN-coated				
• Aluminium case				



No.	ISO			h1
21	PWLN	R1616	H06	16 mm
22	PWLN	L1616	H06	16 mm
23	PSDNN	1616	H09	16 mm
24	CKJN	R1616	H16	16 mm
25	MDJN	R1616	H11	16 mm

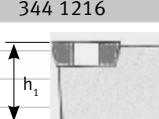
HM- spare inserts (5 pcs.)



No.	ISO	D1	D2	B1	S1	Re	L1	Item No.
23	SNMG090304	9,252	3,81	90°	3,18	0,4		344 1755
24	KNUX160405R	9,252		55°	4,76	0,5	16,15	344 1754
25	DNMG110408	9,525	3,81	55°	4,76	0,8		344 1750

Lathe tool kit HM 16 mm

Lathe tool kit HM16 mm				344 1216
• 5 pieces				
• With HM inserts				
• TiN-coated				



No.	ISO			h1
26	SSSC	R1616	J09	16 mm
27	SCLC	R1616	J09	16 mm
28	SDNC	N1616	J11	16 mm
29	SDJC	R1616	J11	16 mm
30	SDJC	L1616	J11	16 mm

HM- spare inserts (5 pcs.)



No.	ISO	D1	D2	B1	S1	Re	Item No.
26	SCMT09T304	9.525	4.4	90°	3.97	0.4	344 1280
27	CCMT09T304	9.525	4.4	80°	3.97	0.4	344 1282
28-30	DCMT11T304	9.525	4.4	55°	3.97	0.4	344 1281

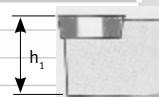
Single lathe tool 16 mm

26	SSSC R1616J09	344 1230	74,00
27	SCLC R1616J09	344 1231	74,00
28	SDNC N1616J11	344 1232	74,00
29	SDJC R1616J11	344 1233	74,00
30	SDJC L1616J11	344 1234	74,00

Lathe tool kit HM 16 mm**Lathe tool kit HM 16 mm**

344 1610

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case



No.	ISO			h_1
31	MVJNR	1616	H16	16 mm
32	MVVNN	1616	H16	16 mm
33	PRANN	1616	H10	16 mm
34	PRGNR	1616	H10	16 mm
35	SER	1616	H16	16 mm

**HM- spare inserts**

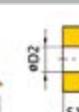
344 1701



344 1702



344 1703



No.

ISO

D1

D2

B1

S1

Re

Item No.

31/33

VNMG160408

9,525

3,81

35°

4,76

0,8

344 1701

32/34

RNMM1003MO

10

3,6

-

3,97

344 1702

35

16ER AG60

16

3,95

60°

3,65

344 1703

Lathe tool kit HM 20 mm**Lathe tool kit HM 20 mm**

344 1670

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case



No.	ISO			h_1
36	PWLN	R2020	K08	20 mm
37	PWLN	L2020	K08	20 mm
38	PSDN	N2020	K12	20 mm
39	CKJN	R2020	K16	20 mm
40	MDJN	R2020	K11	20 mm

**HM- spare inserts**

344 1753



344 1756



344 1754



344 1750



No.

ISO

D1

D2

B1

S1

Re

L1

Item No.

36/37

WNMG080408

9,252

3,81

80°

4,76

0,8

344 1752

38

SNMG120408

12,7

5,16

90°

4,76

0,8

344 1756

39

KNUX160405R

9,252

55°

4,76

0,5

16,15

344 1754

40

DNMG110408

9,525

3,81

55°

4,76

0,8

344 1750

Lathe tool kit HM 20 mm**Lathe tool kit HM 20 mm**

344 1617

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case



No.	ISO			h_1
41	SER	2020	K16	20 mm
42	PRGNR	2020	K10	20 mm
43	PRANN	2020	K10	20 mm
44	MVVNN	2020	K16	20 mm
45	MVJNR	2020	K16	20 mm

**HM- spare inserts**

344 1703



344 1702



344 1701



No.

ISO

D1

D2

B1

S1

Re

Item No.

41

16ER AG60

16

3,95

60°

3,65

344 1703

42/43

RNMM1003MO

10

3,6

-

3,97

344 1702

44/45

VNMG160408

9,525

3,81

35°

4,76

0,8

344 1701

Lathe tool kit HM 25 mm

Lathe tool kit HM 25 mm

344 1623

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case



No.	ISO			h1
46	MVVN	N2525	M16	25 mm
47	SE	R2525	M16	25 mm
48	PRGN	R2525	M12	25 mm
49	PRAN	N2525	M16	25 mm
50	MVJN	R2525	M16	25 mm



HM- spare inserts	
344 1701/04	Re 35° D1 S1
344 1703	Re 90° D1 S1
344 1705	Re D2 D1 S1

No.	ISO	D1	D2	B1	S1	Re	Item No.
46/50	VNMG160408	9,525	3,81	35°	4,76	0,8	344 1701
47	16ER AG60	16	3,95	60°	3,65	-	344 1703
48	RNMG1204MO	12	4,75	R	5,1	-	344 1705
49	RNMG1605MO	16	5,4	R	6,3	-	344 1704

Lathe tool kit HM 25 mm

Lathe tool kit HM 25 mm

344 1672

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case

No.	ISO			h1
51	PWLN	L2525	M08	25 mm
52	PSDN	N2525	M15	25 mm
53	PWLN	R2525	M08	25 mm
54	CKJNR	R2525	M16	25 mm
55	MDJN	R2525	M15	25 mm



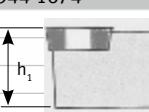
HM- spare inserts	
344 1757	Re D1 S1
344 1752	Re B1 D1 S1
344 1754	Re D1 B1 S1
344 1751	Re D1 B1 S1

Lathe tool kit HM 32 mm

Lathe tool kit HM 32 mm

344 1674

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case



No.	ISO			h1
56	PWLN	L3232	P08	32 mm
57	PSDN	N3232	P15	32 mm
58	PWLN	R3232	P08	32 mm
59	CKJN	R3232	P16	32 mm
60	MDJN	R3232	P15	32 mm



HM- spare inserts	
344 1757	Re D1 S1
344 1752	Re B1 D1 S1
344 1751	Re D1 B1 S1
344 1754	Re D1 B1 S1

Internal turning tool set 10 mm 344 1640

- 3 pieces
- With HM inserts
- TiN-coated
- Aluminium case

No.	ISO		
61	S10K	SCFCR	06
62	S10K	SDQCR	07
63	S10K	STFCR	11

Internal turning tool

Internal turning tool set 12 mm 344 1641

- 3 pieces
- With HM inserts
- TiN-coated
- Aluminium case

No.	ISO		
61	S12M	SCFCR	06
62	S12M	SDQCR	07
63	S12M	STFCR	11

		HM- spare inserts							
für No.	ISO	l	s	r	d	d1	Item No.		
61	CCMT060204	C/80°	6,35	2,60	0,40	6,35	2,70	344 1164	
62	TCMT110204	T/60°	10,84	2,53	0,40	9,1	2,70	344 1163	
63	DCMT070204	D/55°	7,30	2,53	0,40	6,35	2,70	344 1166	


Internal turning tool -Satz 344 1650

- 5 pieces (8/10/12/16/20 mm)
- With HM inserts
- TiN-coated
- Aluminium case

No.	ISO			d
64	S10K	SIR 0008	H08	8 mm
65	S10K	SIR 0010	K11	10 mm
66	S10K	SIR 0012	M11	12 mm
67	S10K	SIR 0016	P16	16 mm
68	S10K	SIR 0020	S16	20 mm

Internal turning tool


		HM- spare inserts							
	ISO	l	s	d	d1	Max.	Item No.		
64	08IR A60	60° IR	8	2,22	4,76	2,5	M10	344 1725	
65/66	11IR A60	60° IR	11	3,22	6,35	3,0	M12	344 1726	
67/68	16IR A60	60° IR	16	3,65	9,5	3,95	M16	344 1727	

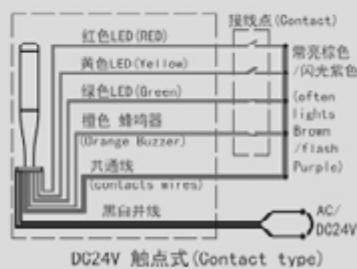
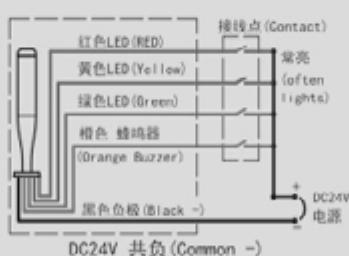
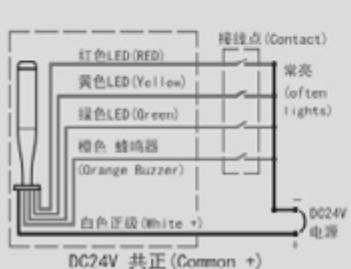
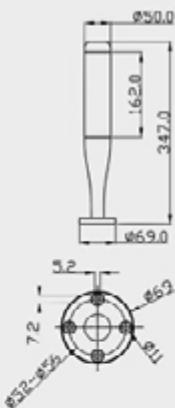
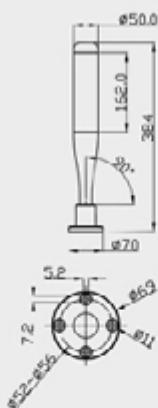
LED LAMP M8000



- LED 光源直接发出有色指示光，时尚、清澈、醒目。
- 外观采用柔美曲线设计，纯金属质感，做工精细；中部清澈透明，直线排列的灯珠美观大方，让行业内人士眼前一亮，从而大幅度提升设备的价值感。
- 采用进口 PC 透明管料，号称防弹胶，耐腐蚀，耐高温，不易变黄。
- 采用名牌高品质 LED 光源，长寿命达 50000 小时以上，保证 5 年不坏灯(可用约 10 年)，与设备同寿命，免除更换指示灯光源或指示灯的麻烦；铝合金的芯轴，确保 LED 光源产生的热量迅速散去，延缓光衰。
- 采用进口长寿命电容器，确保高品质的电源驱动。
- 可拆式安装底座，简便实用，方便设备运输。

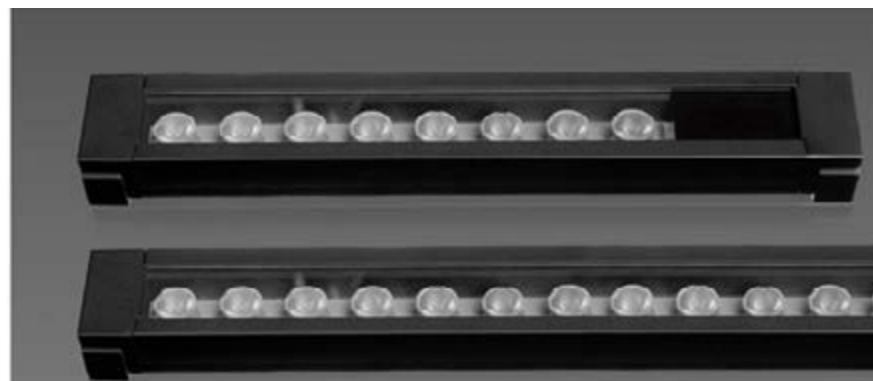
- Display by colored LED, stylish, clean, eye-catching.
- The soft curve design, pure metal texture, fine; central clear and transparent, linear array of light beads, beautiful, so that industry professionals are attracted, thus greatly enhancing the value of equipment.
- Use of imported PC material transparent tube, known as bullet-proof plastic, corrosion-resistant, bear high temperature, anti-yellowing.
- The use of brand-name high-quality LED light source, long life of 50000 hours (for about 10 years), with the same life and equipment, eliminating the replacement of indicator light; Aluminum mandrel to ensure that heat generated by LED quickly dispersed, slow light decline.
- Imported long-life capacitors, ensure high-quality power-driven.
- Can directly plug installation, simple, practical, convenient transportation equipment.

参数及安装结构图(Technical Parameters and Structure Installation)

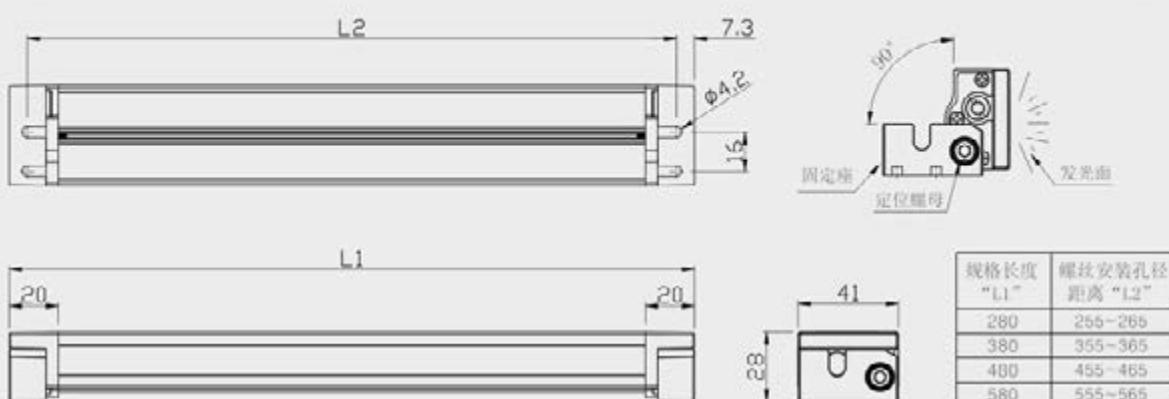


表面温度	<50 °C	出光角度	360°	光源	小功率LED贴片	额定电流	50-200MA
寿命	50.000Hrs	防护等级	IP50	安装方式	固定底座插拔式/可拆式		

LED LAMP M9008/9012/9016/9020

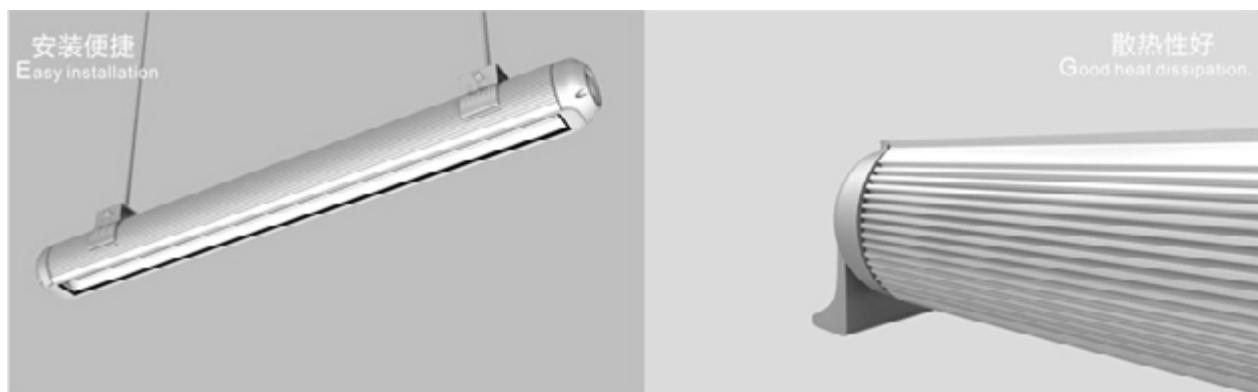
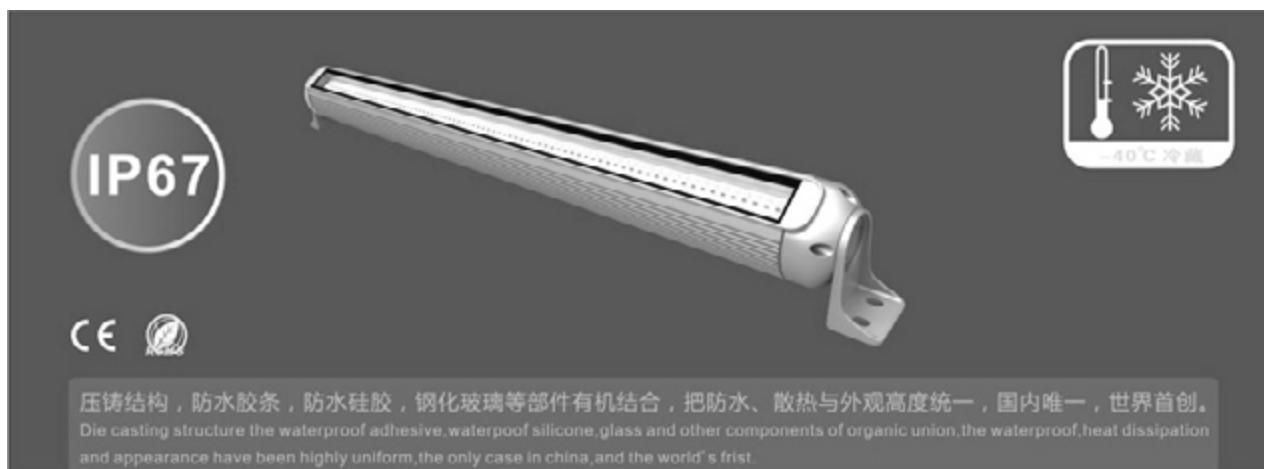


- 采用超小型美学设计，节省空间，可安装在不同样式的机床，名副其实的通用灯具。
- 灯底部安装后，可转动固定座，可依据固定座自由调节角度，提升用光的自由度。
- 通过调节出光角度，不仅可达到最好的光效，同时还能避免灯光对眼睛的刺激造成眼部伤害。
- 隐藏式安装，灯体跟机床达到完美结合，感觉更美观、舒适。
- Ultra-small aesthetic design, can save space, can be installed in different styles of machine, a veritable universal fixtures.
- After the bottom of the lamp installed rotatable mounts, can freely adjust the angle according to holder, enhance freedom of light.
- By adjusting the light angle, not only can achieve the highest light efficient, but also can avoid the light to damage your eyes.
- Hidden installation, light body and machine to achieve the perfect combination, make us feel more comfortable.

参数及安装结构图(Technical Parameters and Structure Installation)

名称	电压	规格长度	功率	表面温度	<50 °C		
LED M9008	<input type="checkbox"/> DC24V	<input type="checkbox"/> 280mm	<input type="checkbox"/> 8W	光源	1-3W/pcs	安装方式	螺丝固定
LED M9012	<input type="checkbox"/>	<input type="checkbox"/> 380mm	<input type="checkbox"/> 12W	寿命	50,000Hrs		
LED M9016	<input type="checkbox"/>	<input type="checkbox"/> 480mm	<input type="checkbox"/> 16W	出光角度	60°	中心照度	70CM 850LUX
LED M9020	<input type="checkbox"/>	<input type="checkbox"/> 580mm	<input type="checkbox"/> 20W	防护等级	IP67		

LED LAMP M1007/M1012/M1016/M1020



参数及安装结构图(Technical Parameters and Structure Installation)

名称	电压	规格长度	功率	表面温度	<50 °C		
LED M1007	<input type="checkbox"/> 24V	<input type="checkbox"/> 300mm	<input type="checkbox"/> 7W	光源	0.2W/pcs	安装方式	固定底座
LED M1012	<input type="checkbox"/> 24V	<input type="checkbox"/> 400mm	<input type="checkbox"/> 12W	寿命	50,000Hrs		
LED M1016	<input type="checkbox"/> 220V	<input type="checkbox"/> 600mm	<input type="checkbox"/> 16W	出光角度	90°	额定电流	180-1000MA
LED M1020		<input type="checkbox"/> 800mm	<input type="checkbox"/> 20W	防护等级	IP67	光效	100-110lm/w



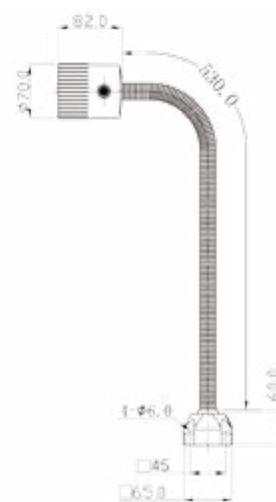
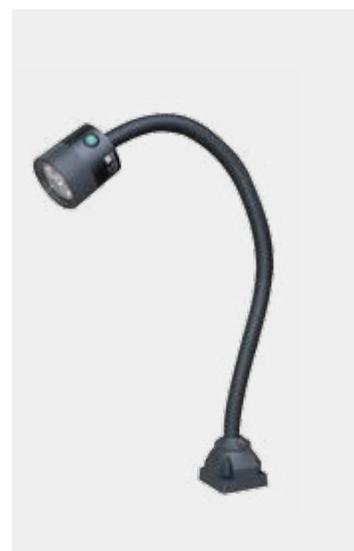
规格长度	(300)	(400)	(600)	(800)
灯具总长 "L1"	370	510	710	910
灯夹安装距离 "L2"	369±3	469±3	669±3	869±3

Robust LED machine lamps for the individual use

Type	LED 3-500
Item No	335 1010

Energy-saving durable machine lamp

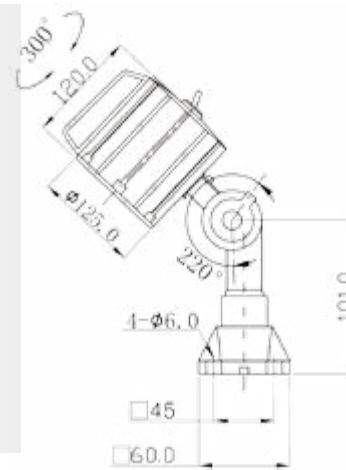
- Equipped with high performance LEDs
- With protection class IP64 (dust and splash water protected)
- Service life 60'000 operating hours
- Little outside temperature so that lubricants and coolants cannot burn in
- Made of robust oil-resistant and impact-proof plastic material
- No impairment of the service life due to vibrations or shocks
- High positioning stability
- Jacketed stable flexible hose arm 530 mm
- Optimum mobility of the articulated arm
- Colour temperature 4000 - 4500 K
- Cable length 1.2 m
- Maintenance-free
- Colour black
- Lamp: 3 x 1 W LED
- 230 V ~50 Hz



Type	LED 8-100
Item No	335 1021

Robust and bright machine anglepoise

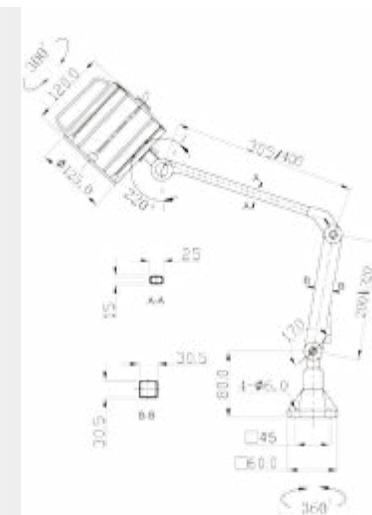
- Highly modern LED technique
- Little outside temperature so that lubricants and coolants cannot burn in
- Dust tight and jet water protected
- Articular head
- Light distribution: medium-width, asymmetric, angle of refraction 25°
- Lamp cover made of safety glass resistant to temperature change
- Protection class IP65 (lamp head)
- Colour temperature 4000 - 4500 K
- Supply cable about 1.2 m
- Colour aluminium silver/black
- Lamp: 8 x 1 W LED
- 230 V ~50 Hz



Type	LED 8-600
Item No	335 1026
	LED 8-720
	335 1027

Robust and bright machine anglepoise

- Highly modern LED technique
- Little outside temperature so that lubricants and coolants cannot burn in
- Dust tight and jet water protected
- Articular head
- Light distribution: medium-width, asymmetric, angle of refraction 25°
- Lamp cover made of safety glass resistant to temperature change
- Articulated arm length 505 mm (LED 8-600) 720 mm (LED 8-720)
- Protection class IP65 (lamp head)
- Colour temperature 4000 - 4500 K
- Supply cable about 1.2 m
- Colour aluminium silver/black
- Lamp: 8 x 1 W LED
- 230 V ~50 Hz
- Weight: 3.6 kg





Drilling & Milling machines

DRILLING & MILLING MACHINE



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DRILLING & MILLING MACHINE

钻 铣 床 DM25/DM30

优质、高效、高性价比

- 操作简单，加工范围广
- 主轴箱可作360°回转
- 机头可垂直升降
- 采用高强度铸铁立柱
- 宽大型工作台
- 精密微调进给
- 高负荷圆锥滚子轴承支撑主轴
- 主轴任意位置可锁紧
- 工作台间隙镶条调整
- 皮带传动噪音低

标准附件：

- 铣刀吊紧拉杆
- 钻夹头 1-13mm/B16
- 钻接杆 MT3/B16(DM25)
R8/B16(DM30)

可选附件：

- 石英工作灯 JC34A
- 冷却系统 AB-12
- 58 件套铣床夹具
- Q24-16 套装铣夹头 (4.5.6.8.10.12.16)
- 套装立铣刀 (20 件 / 套)
- 铣床机用平口钳 QG100
- 可转位端面铣刀 ø63mm/MT3
- 全钢床脚及油盘
- 二轴数显装置
- 立卧两用精密回转工作台 ERT-HV125

Convincing arguments: quality, efficiency and price

- Very easy to operate
- Head swivels 360
- Head worktable up & down vertically
- Strong iron casting column
- Wide and big table
- Micro feed precision
- Heavy-duty tapered roller bearing Spindle
- Positive spindle lock
- Adjustable gibs on table
- Belt drive, low noise

Standard Accessories:

- Draw bar
- Drill chuck 1-13mm/B16
- Morse taper MT3/B16(DM25)
R8/B16(DM30)

Optional equipment:

- Halogen lamp
- Coolant pump
- 58pcs clamping tool kit
- Q24-16 Milling chuck set (4.5.6.8.10.12.16)
- End milling cutter set(HSS 20pcs)
- Milling vice QG100(100mm)
- Face milling cutter ø63mm/MT3
- Steel stand and chip tray
- X/Y 2-axis DRO
- H/V Precision rotarytable ERT-HV125



DM30

床脚和油盘为可选
Stand & chip tray is
for optional

机床技术参数 /Specification

型号	Model	DM25	DM30
产品编号	Code No.	2102500	2103000
钻铣能力	DRILLING-MILLING CAPACITY		
最大钻孔直径(铁/钢)	Max.drilling capacity(Iron/Steel)	ø25/ø20mm	ø30/ø25mm
面铣直径	Milling capacity cutter head	ø63mm	ø76mm
立铣直径	Milling capacity end mill cutter	ø20mm	ø20mm
主轴	SPINDLE		
主轴锥度	Spindle taper	MT3	MT3 or R8
套筒行程	Sleeve travel	120mm	120mm
钻铣头	DRILL-MILL HEAD		
主轴倾斜角度	Spindle inclined angle	/	/
主轴转速	Spindle speed	100-2080rpm	100-2080rpm
十字工作台	CROSS TABLE		
工作台(长x宽)	Tabel(LxW)	585X190mm	730X210mm
Y轴行程	Y-axis travel	168mm	210mm
X轴行程	X-axis travel	370mm	500mm
T型槽尺寸/长度/数量	T-slot size/distance/number	14mm/475mm/3	14mm/630mm/3
主轴端面至工作台面距离	Distance spindle-cross table	430mm	440mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	1.1KW	1.5KW
体积	DIMENSIONS		
长x宽x高	LxWxH	730X670X1020mm	950X760X1200mm
净重/毛重	NW/GW	270/320kg	300/350kg

DRILLING & MILLING MACHINE

钻 铣 床 DMF 40

优质、高效、高性价比

- 铣削、钻削、攻丝、扩孔、镗孔
- 主轴箱可作360°回转
- 机头、工作台可垂直升降
- 超高立柱
- 高精度十字工作台
- 精密微调进给
- 高负荷圆锥滚子轴承支撑主轴
- 主轴任意位置可锁紧
- 工作台间隙镶条调整
- 齿轮传动，低噪音

Convincing arguments: quality, efficiency and price

- Milling drilling, tapping, boring, reaming
- Head swivels 360°
- Head worktable up & down vertically
- Super high column
- High precision cross table table
- Micro feed precision
- Heavy-duty tapered roller bearing Spindle
- Positive spindle lock
- Adjustable gibs on table
- Gear drive, lower noise

标准附件:

- 铣刀吊紧拉杆
- 钻夹头 1-13mm/B16
- 钻接杆 MT4/B16

Standard Accessories:

- Draw bar
- Drill chuck 1-13mm/B16
- Morse taper MT4/B16

可选附件:

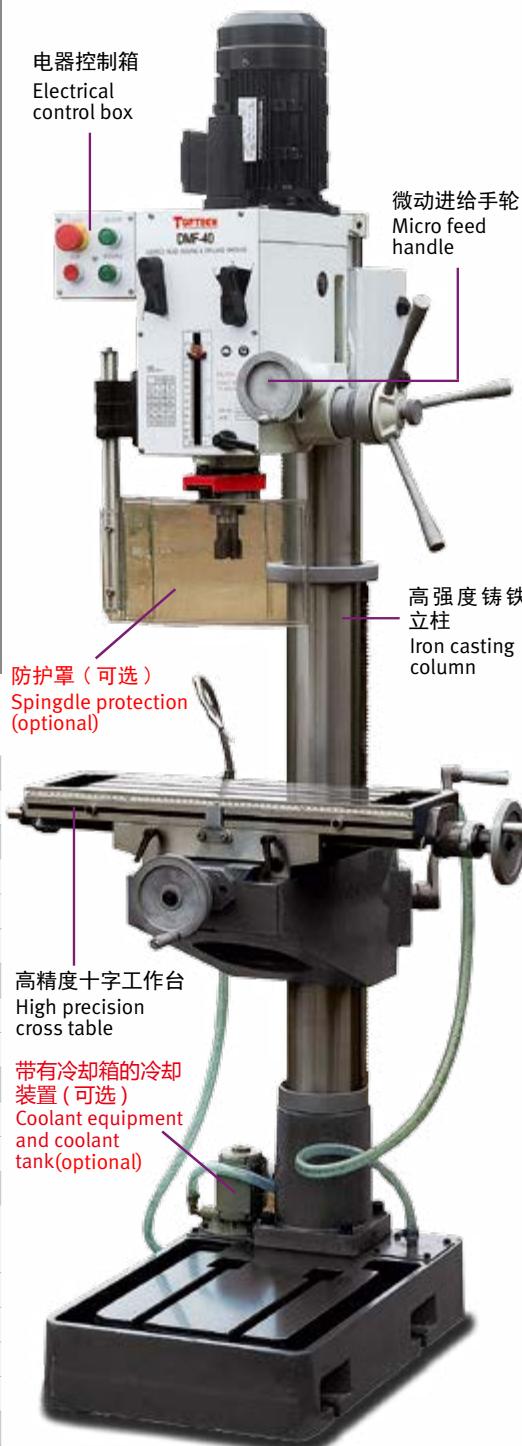
- 石英工作灯 JC34A
- 冷却系统
- 主轴自动进给
- 双速电机 1.1/1.5KW or 1.5KW

Optional equipment:

- Halogen lamp
- Coolant pump
- Headstock spindle power down feed
- Double speed motor 1.1/1.5KW or 1.5KW

机床技术参数 /Specification

型号	Model	DMF40
产品编号	Code No.	2204000
钻铣能力	DRILLING-MILLING CAPACITY	
最大钻孔直径(铁/钢)	Max.drilling capacity(Iron/Steel)	ø40/ø32mm
面铣直径	Milling capacity cutter head	ø80mm
立铣直径	Milling capacity end mill cutter	ø32mm
主轴	SPINDLE	
主轴锥度	Spindle taper	MT3 MT4 or R8
套筒行程	Sleeve travel	120mm
钻铣头	DRILL-MILL HEAD	
主轴倾斜角度	Spindle inclined angle	±90°
主轴转速	Spindle speed	75-1600rpm
十字工作台	CROSS TABLE	
工作台 (长x宽)	Table(LxW)	600x190mm 730x210mm (for optional)
Y轴行程	Y-axis travel	280mm
X轴行程	X-axis travel	500mm
T型槽尺寸/长度/数量	T-slot size/distance/number	14mm/630mm/3
主轴端面至工作台面距离	Distance spindle-cross table	630mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	1.5KW
体积	DIMENSIONS	
长x宽x高	LxWxH	830X760X1885mm
净重/毛重	NW/GW	340/390kg



DMF40

DRILLING & MILLING MACHINE

钻 铣 床 DM40/DM45/DM45L

优质、高效、高性价比

- 铣削、钻削、攻丝、扩孔、镗孔
- 主轴箱垂直方向可作 $\pm 90^\circ$ 回转
- 宽大型工作台
- 主轴微动进给
- 使用强力高负荷圆锥滚子轴承支撑主轴
- 主轴可任意位置锁紧，机头可升降
- 工作台间隙镶条调整
- 工作台限位位置可调
- 齿轮变速箱驱动
- 定位准确，刚性强，切削力大

Convincing arguments: quality, efficiency and price

- . Milling drilling, tapping, boring, reaming
- . Head swivels $\pm 90^\circ$ vertically
- . Largely dimensioned table
- . Spindle micro feed
- . Heavy-duty tapered roller bearing spindle
- . Spindle can be locked, headstock power down feed
- . Adjustable gibbs on table
- . Adjustable stops on table
- . Gear drive headstock
- . Accurate position, good rigidity, big cutting power



机床技术参数 /Specification

型号	Model	DM40	DM45	DM45L
产品编号	Code No.	2104000	2104500	2104600
钻铣能力	DRILLING-MILLING CAPACITY			
最大钻孔直径(铁/钢)	Max.drilling capacity(Iron/Steel)	ø40/ø32mm	ø45/ø32mm	ø45/ø32mm
面铣直径	Milling capacity cutter head	ø63mm	ø80mm	ø80mm
立铣直径	Milling capacity end mill cutter	ø32mm	ø32mm	ø32mm
主轴	SPINDLE			
主轴锥度	Spindle taper	MT3 or R8 or MT4	MT3 or MT4 or R8	MT3 or MT4 or R8
主轴行程	Spindle travel	120mm	120mm	120mm
钻铣头	DRILL-MILL HEAD			
主轴倾斜角度	Spindle inclined angle	±90°	±90°	±90°
主轴转速	Spindle speed	75-1600rpm	75-1600rpm	75-1600rpm
十字工作台	CROSS TABLE			
工作台(长x宽)	Table(LxW)	730x210mm	800x240mm	1000x240mm
Y轴行程	Y-axis travel	230mm	190mm	190mm
X轴行程	X-axis travel	500mm	560mm	760mm
T型槽尺寸/长度/数量	T-slot size/distance/number	14mm/575mm/3	14mm/630mm/3	14mm/840mm/3
主轴端面至工作台面距离	Distance spindle-cross table(Max.)	470mm	470mm	470mm
电机	ELECTRIC SUPPLY			
电机功率	Motor	1.5KW	1.5KW	1.5KW
体积	DIMENSIONS			
长x宽x高	LxWxH	820x760x1150mm	1015x1015x1425mm	1200x760x1150mm
净重/毛重	NW/GW	270/300kg	312/378kg	375/400kg

标准附件：

- 铣刀吊紧拉杆
- 钻夹头 1-13mm/B16
- 钻接杆 MT3/B16(DM40)
MT4/B16(DM45)

Standard Accessories:

- Draw bar
- Drill chuck 1-13mm/B16
- Morse taper MT3/B16(DM40)
MT4/B16(DM45)

可选附件：

- 石英工作灯 JC34A
- 冷却系统
- 58 件套铣床夹具 M12Q24-16 套装铣夹头
(4.5.6.8.10.12.16)
- 套装立铣刀 (20 件 / 套)
- 铣床机用平口钳 QG125
- 可转位端面铣刀 ø63mm/MT3
- 全钢床脚及油盘
- 两轴数显装置 (DM40)
- 两 / 三轴数显装置 (DM45)
- 立卧两用精密回转工作台 ERT-HV150
- 工作台自动走刀器 (DM45)
- 主轴自动进给
- 双速电机 1.1/1.5KW or 1.5KW

Optional equipment:

- Halogen lamp
- Coolant pump
- 58pcs clamping tool kit
- Milling chuck set (8pcs/set) 4-16mm
- End milling cutter set(HSS 20pcs)
- Milling vice QG125(125mm)
- Face milling cutter ø63mm/MT3
- Steel stand and chip tray
- X,Y 2-axis DRO(DM40)
X,Y 2-axis / X,Y,Z 3-axis DRO(DM45)
- H/V Precision rotary table ERT-HV150
- Table power feed TPF-01
- Headstock spindle power down feed
- Double speed motor 1.1/1.5KW or 1.5KW

DRILLING & MILLING MACHINE

钻 铣 床 DH40CT



优质、高效、高性价比

- 厚重结实的铸铁制造
- 抛光淬火的齿轮浸在油槽内带来顺畅运转
- XY轴大尺寸工作台
- 转速范围广95 - 3,200 rpm
- 两级高品质工业电机
- 机头和工作台高度可调
- 工作台导轨通过燕尾精度可调
- 可正转/反转
- 齿轮头可± 60°左右旋转
- 带钻销深度限位

Convincing arguments: quality, efficiency and price

- Heavy, solid cast design
- Smooth action due to polished gearwheels running in an oil sump
- Large XY table
- Large speed range of 95 - 3,200 rpm
- Two-stage industrial quality electric motor
- Gear head and table are height adjustable
- Table guideways precisely adjustable via V-ledges
- Clockwise/Anti-clockwise rotation
- Gear head pivots through ± 60°
- Drilling depth stop

钻夹头防护罩

- 最大限度保护用户的安全

- 高度可调

- 带微动开关

Chuck guard

- Best possible protection of the user

- Height-adjustment

- Micro switch

高精度十字工作台

- High precision cross table

套筒进给

- 通过手轮

Sleeve feed

- Via handwheel

切削深度限位

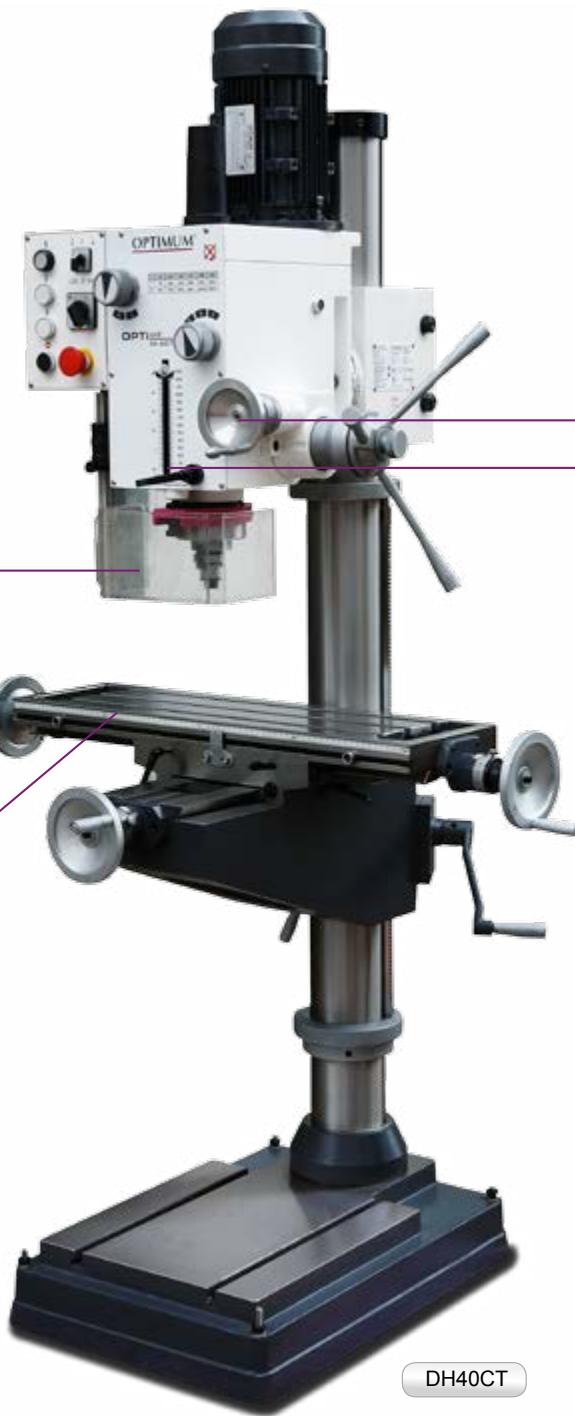
- 毫米刻度尺

- 可调

Drilling depth stop

- Millimeter scale

- adjustable



机床技术参数 /Specification

型号	Model		DH40CT								
产品编号	Code No.		2214000								
钻孔能力	铸铁	Drilling capacity	cast iron	$\varnothing 40\text{mm}$							
	低碳钢		mild steel	$\varnothing 32\text{mm}$							
面铣直径	Face mill capacity		$\varnothing 76\text{mm}$								
立铣直径	End mill capacity		$\varnothing 25\text{mm}$								
工作台尺寸	Working table size		730mm×210mm								
水平工作台尺寸	Working table cross travel		490mm ×180mm								
底座尺寸	Dimension of base		670mm×470mm								
立轴中心至床身垂直面距离	distance spindle to column		278mm								
主轴头左右倾斜角度	Head tilt left right		$\pm 45^\circ$								
T型槽尺寸	T-slot size		3-14×63mm								
主轴锥度 (可选)	Spindle taper(option)		MT3 or MT4		R8 or ISO30						
主轴端面至工作台面最大距离	Max distance spindle to table		600mm								
卧轴端面至工作台面最大距离	Max distance nose to base		1180mm								
主轴行程	Spindle travel		120mm								
主轴转速			Motor 1.1KW/1.5KW/50HZ		I	75 180 280 600 1000 1600					
	Spindle speed(rpm)				II	150 360 560 1200 2000 3200					
可选			Motor 1.1KW/1.5KW/60HZ		I	115 205 345 530 940 1575					
	(option)				II	230 410 690 1060 1880 3150					
外形尺寸 (长 × 宽 × 高)	Overall dimension		1060mm×750mm×1760mm								
包装尺寸 (长 × 宽 × 高)	Packing dimension		950mm×760mm×1885mm								
净重 / 毛重	NW/GW Weight		360/390Kg								

随机标准附件:

- 钻夹头 $\varnothing 1\text{-}\varnothing 13\text{mm}/\text{B}18$
- T型螺母 M12×55
- 退刀楔
- 变径套 MT4/MT3

Standard Accessories included:

- Drill chuck $\varnothing 1\text{-}\varnothing 13\text{mm}/\text{B}18$
- T-nuts M12×55
- Tilted wedge
- Adjustable sets MT4/MT3

DRILLING & MILLING MACHINE

钻 铣 床 DH40CTV



速度显示
· 方便读数
Digital speed display
· Easy to read

主轴套筒行程显示
· 0.01mm 精度的数字显示
· 毫米 / 英寸转换
Spindle sleeve travel display
· Digital, accuracy of the display 0.01 mm.
· Reversible mm/inch

带有冷却箱的冷却装置
· Coolant equipment and coolant tank

DH40CTV

机床技术参数 /Specification

型号	Model		DH40CTV	
产品编号	Code No.		2514000	
钻孔能力	铸铁	Drilling capacity	cast iron	Ø40mm
	低碳钢		mild steel	Ø32mm
面铣直径	Face mill capacity		Ø76mm	
立铣直径	End mill capacity		Ø25mm	
工作台尺寸	Working table size		730mm×210mm	
水平工作台尺寸	Working table cross travel		490mm ×180mm	
底座尺寸	Dimension of base		670mm×470mm	
立轴中心至床身垂直面距离	distance spindle to column		278mm	
主轴头左右倾斜角度	Head tilt left right		±45°	
T型槽尺寸	T-slot size		3-14×63mm	
主轴锥度 (可选)	Spindle taper(option)		MT3 or MT4	R8 or ISO30
主轴端面至工作台面最大距离	Max distance spindle to table		600mm	
卧轴端面至工作台面最大距离	Max distance nose to base		1180mm	
主轴行程	Spindle travel		120mm	
	Motor 1.1KW/1.5KW/50HZ		I	75~435
主轴转速	Spindle speed(rpm)		II	435~2500
外形尺寸 (长 × 宽 × 高)	Overall dimension		1060mm×1760mm×980mm	
包装尺寸 (长 × 宽 × 高)	Packing dimension		1000mm×760mm×1970mm	
净重 / 毛重	NW/GW Weight		360/390Kg	

随机标准附件:

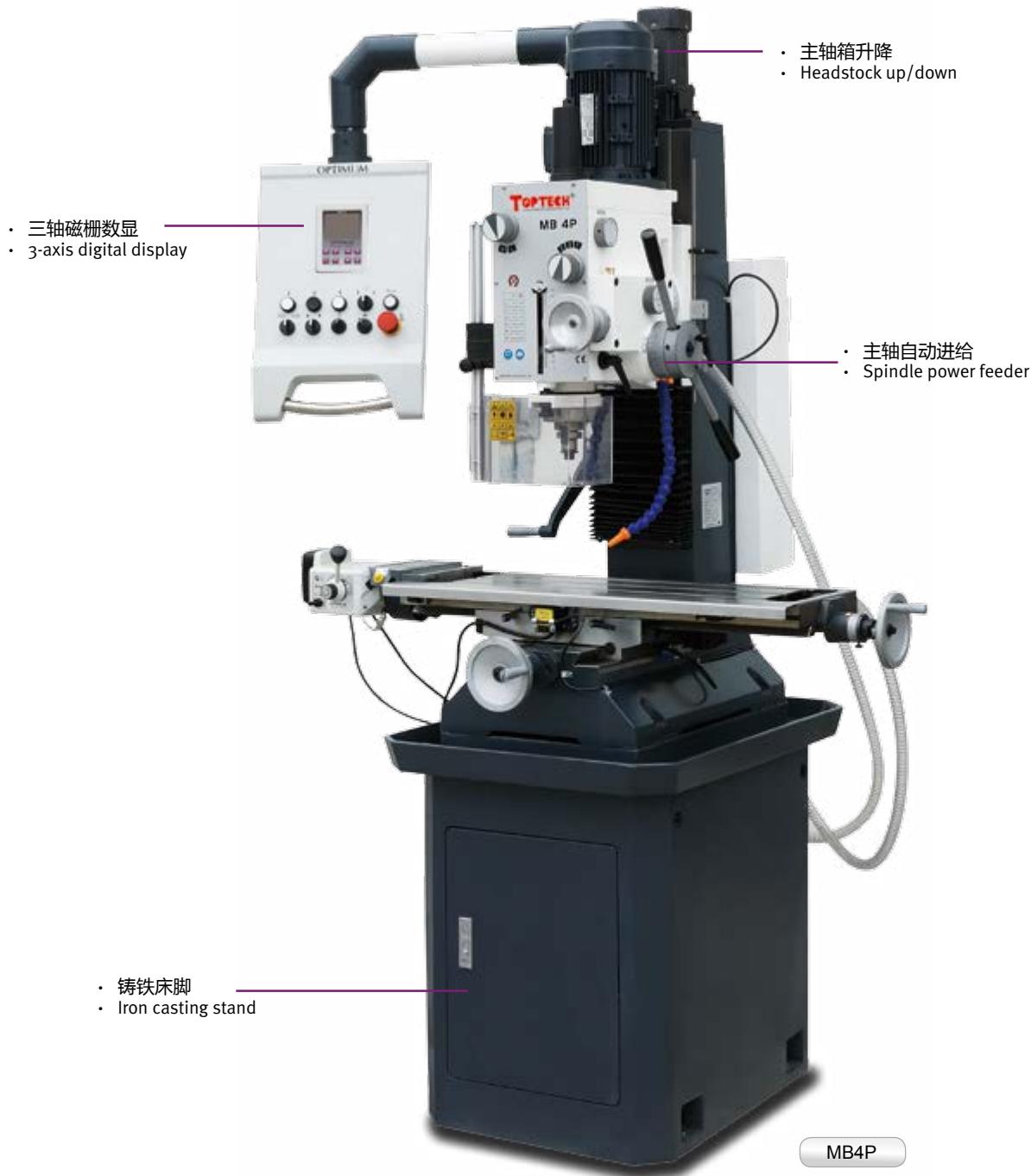
- 钻夹头 Ø1-Ø13mm/B18
- T型螺母 M12×55
- 退刀楔
- 变径套 MT4/MT3

Standard Accessories included:

- Drill chuck Ø1-Ø13mm/B18
- T-nuts M12×55
- Tilted wedge
- Adjustable sets MT4/MT3

DRILLING & MILLING MACHINE

钻 铣 床 MB4P/MB4PV



标准附件：

- 三轴磁栅
- X 轴自动走刀器
- 铣刀吊紧拉杆
- LED 工作灯
- 冷却系统

Standard Accessories:

- 3-axis magnetic
- X-axis power feed
- Draw bar
- LED lamp
- Coolant pump

可选附件：

- 58 件套铣床夹具 M12 套装铣夹头 (8 件 / 套) 规格 4-16mm
- 套装立铣刀 (20 件 / 套)
- 铣床机用平口钳 QG125
- 可转位端面铣刀 ø63mm/MT3(or MT4)
- 立卧两用精密回转工作台 ERT-HV150
- X 轴自动进给

Optional equipment:

- 58pcs clamping tool kit M12x1.75 Milling chuck set (8pcs/set) size 4-16mm
- End milling cutter set(HSS 20pcs)
- Milling vice QG125
- Face milling cutter ø63mm/MT3(or MT4)
- H/V Precision rotary table ERT-HV150
- X-axis power feeder

机床技术参数 /Specification

型号	Model	MB4P	MB4PV
产品编号	Code No.	2204580	2504580
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø45	Ø45
面铣直径	Milling capacity cutter head(max.)	Ø80	Ø80
立铣直径	Milling capacity end mill cutter(max.)	Ø32	Ø32
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle holding fixture	MT4 orR8	MT4 orR8
套筒直径	Sleeve diameter	Ø75mm	Ø75mm
套筒行程	Sleeve travel	120mm	120mm
主轴轴线至立柱表面距离	Distance spindle-column	258mm	258mm
钻铣头	DRILL-MILL HEAD		
主轴倾斜角度	Spindle inclined angle	±60°	±60°
主轴转速	Spindle speed	95-3200RPM	60-2760RPM
十字工作台	CROSS TABLE		
工作台(长×宽)	Table(L×W)	800x240mm	800x240mm
X轴行程	X-axis travel	560mm	560mm
Y轴行程	Y-axis travel	230mm	230mm
Z轴行程	Z-axis travel	350mm	350mm
T型槽尺寸/距离/数量	T-slot size/distance/number	14mm/ 80 mm /3	14mm/ 80 mm /3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	460mm	460mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	1.5KW/1.1KW	1.5KW/230V/50HZ
外形尺寸及重量	DIMENSIONS AND WEIGHT		
外形尺寸(长×宽×高)	size(L×W×H)	1250x945x1920mm	1250x945x1920mm
包装尺寸(长×宽×高)	packing size(L×W×H)	950x1240x2160mm	1240x930x2050mm
净重/毛重	Net weight/Gross weight	515/590kg	480/530kg

VARIABLE SPEED DRILL & MILL MACHINE

无级变速钻铣床 BF16 V

优质、高效、高性价比

- 应用广泛
- 2级变挡
- 100 – 3000rpm无级变速
- 钻铣头90°任意倾斜调整
- 立柱侧面可调整作为今后进一步应用
- 简单清晰的控制面板
- 带有低压释放的人性化IP54安全开关
- 可固定所有行程
- 刀具锥度MT2
- 锥形滚珠轴承产生的精密同心度，主轴套筒
- 内测得的数据为小于0.015mm
- 3轴燕尾导轨运行平稳精确
- 铣削面干净整齐
- 带T型槽和冷却水槽的精加工十字工作台
- 可调高度的铣夹头防护罩
- 所有行程均有刻度显示
- 产品按制造商精度制造并有检测证书
- 性能稳定、性价比高

Convincing arguments: quality, efficiency and price

- Wide range of applications
- Two-step gear multiplication
- With dynamic infinitely variable drive from 100 to 3,000 rpm
- Drill-mill head is inclinable to any direction by 90° and thus allows milling and drilling operations at any angle position
- Upright laterally adjustable for further applications
- Simple and clear control panel
- User-friendly safety switch for IP 54 with low-voltage release
- Possibility of fixing for all travels
- Tool holding fixture MT2
- High concentricity precision due to taper roller bearings less than 0.015 mm measured in the spindle sleeve
- Stable and precise dovetail control adjustable via V-ledges on all 3 axes
- Clean cut surface of milled work by individually clampable cheeks
- Solid, precisely machined cross table with T-slots and coolant gutter
- Height-adjustable screening grid
- All travels are readable from scales
- Produced according to toolmaker's precision with test certificate
- Price-efficient and stable value

安全开关

带有急停按钮、低压释放的安全开关 (IP54)

Safety switch

- Easy-to-operate according to IP 54
- Low-voltage release
- Emergency-stop button

高同心度

小于 0.015mm 的精密同心度

High concentricity precision

- Due to taper roller bearings less than 0.015 mm measured in the spindle sleeve

十字工作台

带 T 型槽和水槽的十字工作台

Cross table

- Solid and precisely machined
- T-slots
- Coolant gutter
- Adjustable limit stops

长度刻度尺

嵌于工作台内的长度刻度尺

Length measuring scale

- Integrated in the cross table



钻铣头

可 90°倾斜的钻 - 铣头

Drill-mill head

- Inclinable by ± 90° to both sides for milling and drilling works in angular position, as required

立柱

精加工、带燕尾导轨

Column

- Solid and precisely machined
- Dovetail guiding

手轮

带定位刻度的进刀手轮

Handwheels

- Correct feed with positionable graduated scale on all handwheels

BF16 V

机床技术参数 /Specification

型号	Model	BF16 V
产品编号	Code No.	2501600
加工范围	CAPACITY	
钻孔直径	Drilling capacity(max.)	Ø16mm
面铣直径	Milling capacity cutter head(max.)	Ø50mm
立铣直径	Milling capacity end mill cutter(max.)	Ø16mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle holding fixture	MT2/M10
套筒直径	Sleeve diameter	Ø60mm
套筒行程	Sleeve travel	50mm
主轴轴线至立柱表面距离	Distance spindle-column	188mm
钻铣头	DRILL-MILL HEAD	
主轴箱倾斜角度	Head rotation	±90°
主轴转速	Gear stages	L:100-1500 rpm H: 200-3000rpm
十字工作台	CROSS TABLE	
工作台 (长×宽)	Table(L×W)	400×120mm
Y轴行程	Y-axis travel	160mm
X轴行程	X-axis travel	220mm
Z轴行程	Z-axis travel	210mm
T型槽尺寸/距离/数量	T-slot size/distance/number	10mm / 35mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	280mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	500W
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸 (长×宽×高)	size(L×W×H)	510×470×745mm
包装尺寸 (长×宽×高)	packing size(L×W×H)	483×444×857mm
净重/毛重	Net weight/Gross weight	62/78kg

标准附件：
 • 铣刀吊紧拉杆
 • 钻接杆 MT2/B16-M10

Standard Accessories:
 • Draw bar
 • Morse taper MT2/B16-M10

可选附件：
 • 莫氏弹簧夹头 (5 件 / 套) (4/6/8/10/12)
 • 套装立铣刀 (12/20 件 / 套)
 • 自紧钻夹头 0-13mm/B16
 • 套装铣夹头 (8 件 / 套) 4-16mm
 • 平口钳 QG100
 • 端面铣刀 Ø63/MT2
 • 床脚和油盘

Optional equipment:
 • Morse collet chuck MT2/M10(5pcs/set) (4/6/8/10/12)
 • End mill cutter kit HSS 12/20pcs/set
 • Keyless chuck 1-13mm/B16
 • Milling chuck kit Q24-16(8pcs/set) 4-16mm
 • Machine vice QG100
 • Face milling cutter ø63/MT2
 • Stand & chip tray



床脚和油盘为可选
Stand & chip tray is
for optional

VARIABLE SPEED DRILL & MILL MACHINE

无级变速钻铣床 BF20/20L V

优质、高效、高性价比

- 通过星形把手进行钻削
- 横向精密铣削
- 进给主轴无缝隙调节
- 可调的精确稳定的燕尾导轨
- 可调控制面板，操作简易、清晰
- 主轴行程速度数据可显示
- 电子无级变速驱动
- 铣头可±90°倾斜，可进行任何角度的钻铣削
- 通过手轮上的刻度定位进行精确进给

Convincing arguments: quality, efficiency and price

- Spindle sleeve feed via star grip (drilling)
- Fine crossfeed of spindle sleeve when milling
- Feed spindles can be adjusted without clearance due to adjustable spindle nuts
- Stable and precise dovetail control adjustable with V-ledges
- Expansion bellow as guide protection
- Easy and clear operation due to adjustable control panel
- All travels speed are readable on scales
- Electronic infinitely variable drive
- The drill head can be inclined by ± 90°, thus permitting milling and drilling operations at any angular position
- Accurate infeed by positioning graduated collar on any handwheels

可选附件：

- 莫氏弹簧夹头（5件/套）
- 套装立铣刀12/20件/套
- 自紧钻夹头0-13mm/B16
- Q24/16套装铣夹头（8件/套）规格4-16mm
- 平口钳QG100
- 端面铣刀Ø63/MT2
- 床脚和油盘

Optional Accessories:

- Morse collet chuck MT2/M10(5pcs/set)
- End mill cutter kit HSS 12pcs/set
- Keyless chuck 1-13mm/B16
- Milling chuck kit Q24-16(8pcs/set) size 4-16mm
- Machine vice QG100
- Face milling cutter Ø63/MT2
- Stand & chip tray

标准附件：

- 铣刀吊紧拉杆
 - 钻接杆MT2/B16 - M10
- Standard Accessories:
- Draw bar
 - Morse taper MT2/B16-M10

电机

- (850W) 功率传输2级倍增
- 恒定电流控制的直流电机

Motor

- Two-stage multiplication for a powerful transmission of the motor power (850 W)
- DC motor with permanent current control

电子元件控制

- 使用可选件NC控制器通过集成继电器控制实现机床自动开启和关闭

Control electronics

- It is possible to switch the machine on and off using the optional NC controller via an integrated relay control

转速

- 100至3000rpm 大范围可连续调节

正反转

Speeds

- Large, continuously adjustable speed range from 100 to 3,000 rpm
- Right-/left-handed rotation



机床技术参数 /Specification

型号	Model	BF2o V	BF2oL V
产品编号	Code No.	2502000	2502100
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø20mm	Ø20mm
面铣直径	Milling capacity cutter head(max.)	Ø63mm	Ø63mm
立铣直径	Milling capacity end mill cutter(max.)	Ø20mm	Ø20mm
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle holding fixture	MT2/M10	MT2/M10
套筒直径	Sleeve diameter	Ø60mm	Ø60mm
套筒行程	Sleeve travel	50mm	50mm
主轴轴线至立柱表面距离	Distance spindle-column	201mm	201mm
钻铣头	DRILL-MILL HEAD		
主轴箱倾斜角度	Head rotation	±90°	±90°
主轴转速	Gear stages	L:90~1480 rpm H:150~3000 rpm	L:90~1480 rpm H:150~3000 rpm
十字工作台	CROSS TABLE		
工作台(长×宽)	Tabel(L×W)	500×180mm	700×180mm
Y轴行程	Y-axis travel	175mm	175mm
X轴行程	X-axis travel	280mm	480mm
Z轴行程	Z-axis travel	280mm	280mm
T型槽尺寸/距离/数量	T-slot size/distance/number	12mm / 63mm / 3	12mm / 63mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	380mm	380mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	850W	850W
外形尺寸及重量	DIMENSIONS AND WEIGHT		
外形尺寸(长×宽×高)	size(L×W×H)	722x550x770mm	950x550x770mm
包装尺寸(长×宽×高)	packing size(L×W×H)	606x554x917mm	770x714x917mm
净重/毛重	Net weight/Gross weight	103/130kg	112/139kg

DRILLING&MILLING HEAD

钻 铣 头 BF2oAV

型号	Model	BF2o AV
货号	Item no.	2502055
电器容量	Electrical connection	
电机	Motor	850W 230 V / 1 Ph ~50 Hz
钻孔能力	Drilling capacity	
钻孔能力	Drilling capacity in steel (S235JR)	Ø20 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø18 mm
主轴	Spindle seat	
套筒直径	Sleeve diameter	Ø60 mm
主轴锥度	Spindle seat	MT2 / M10
钻铣头	Drill-milling head	
摆动角度	Swivel range	± 90°
主轴转速	Spindle speeds	L:90~1480 rpm H:150~3000 rpm
最大尺寸	Length x width x height max.	825x530x570mm
净重/毛重	Net weight / Gross weight	67/84 kg



BF2o AV

VARIABLE SPEED DRILL & MILL MACHINE

无级变速钻铣床 BF30V/BF46 V

优质、高效、高性价比

- 无级变速
- 厚重铸铁制造
- 锥形滚珠轴承产生的高同心度
- 主轴箱可±45°回转
- 高强度燕尾导轨适合高精度高稳定性的加工
- 可选床脚，厚重结实，让加工更稳定无振动
- 钻削深度限位
- 攻丝模式
- 自动模式
- CNC控制预备
- 高性价比、性能稳定

Convincing arguments: quality, efficiency and price

- . Variable speed
- . Heavy solid casting
- . High concentricity precision due to taper roller bearings
- . Gearhead ± 45° rotatable
- . Solid dovetail slideway, hand-scraped, provides for highest stability and optimum precision
- . Optional, solid, heavy substructure provides for stability and vibration-free working
- . Drill depth stop
- . Threading mode
- . Automatic mode
- . CNC prepared (special spindle bearing of the axes and assembly options of the Y-axis housing from the rear side)
- . Price-efficient and stable value

主轴转速

- . 从 115-3100rpm 的无级变速调节

Spindle speeds

- . Infinitely variable speed adjustment from 115 to 3100 rpm

控制面板

- . 速度数字显示，急停按钮
- . 操作模式 / 转动方向选择开关

Control panel

- . Digital speed display
- . Emergency-stop push button
- . Selector switch operating mode/rotating direction

深度显示

- . 数字显示(显示精度 0.01mm)
- . 公 / 英制转换 (毫米 / 英寸)

Depth gauge

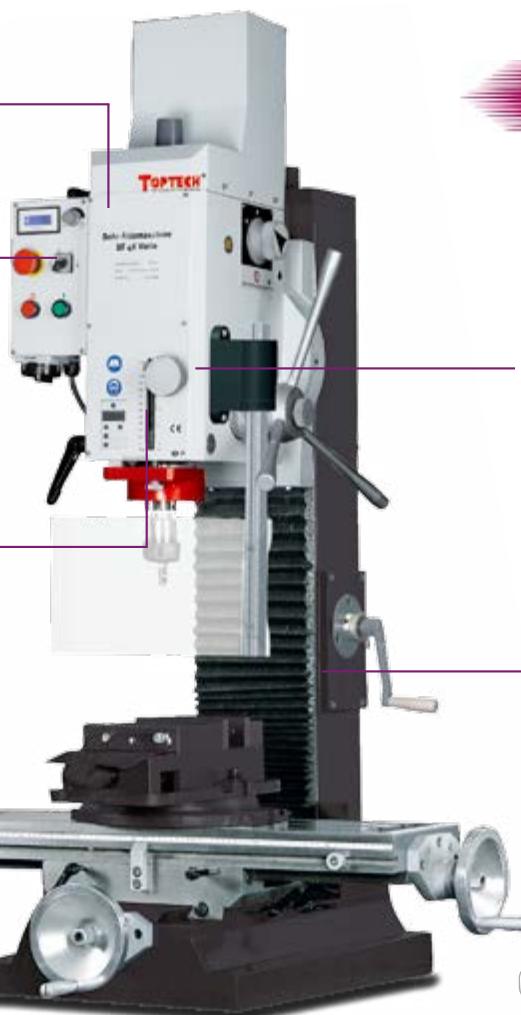
- . Digital accuracy of the display 0.01 mm
- . Reversible mm/inch

十字工作台

- . 大尺寸、表面精加工
- . 带长度刻度尺
- . 限位可调

Cross table

- . Solid, precise, largely dimensioned and precisely machined surface
- . Included length measuring scale
- . Adjustable limit stops



主轴套筒进给

- . 通过星形把手进行钻削
- . 粗进给 / 微进给转换
- . 微进给手柄

Spindle sleeve feed

- . Via star grip (drilling)
- . Coupler to change from manual rough feed to manual fine feed
- . Handwheel for spindle sleeve fine feed

立柱

- . 精密结实的燕尾导轨
- . 高稳定性高精度

Column

- . With solid dovetail slideway,
- . Hand-scraped, provides for highest stability and optimum precision

BF46 V

标准附件：

- . 铣刀吊紧拉杆
- . 钻接杆 MT3/B16 (BF30V)
ISO40/B16 (BF46V)

Standard Accessories:

- . Draw bar
- . Morse taper MT3/B16
ISO40/B16



- . 床脚和油盘为可选

• Stand & chip tray is for optional

机床技术参数 /Specification

型号	Model	BF30 V	BF46 V
产品编号	Code No.	2503000	2504600
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø35mm	Ø45mm
面铣直径	Milling capacity cutter head(max.)	Ø75mm	Ø80mm
立铣直径	Milling capacity end mill cutter(max.)	Ø30mm	Ø32mm
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle holding fixture	MT3/SK30	MT4/SK40
套筒直径	Sleeve diameter	Ø68	Ø80
套筒行程	Sleeve travel	100mm	115mm
主轴轴线至立柱表面距离	Distance spindle-column	240mm	290mm
钻铣头	DRILL-MILL HEAD		
主轴箱倾斜角度	Head rotation	±45°	±45°
主轴转速	Gear stages	L:100-1100rpm M:160-1700rpm H:320-3100rpm	L:115-600rpm M:270-1400rpm H:590-3100rpm
十字工作台	CROSS TABLE		
工作台(长×宽)	Tabel(L×W)	750x210mm	850x240mm
X轴行程	X-axis travel	450mm	500mm
Y轴行程	Y-axis travel	200mm	260mm
Z轴行程	Z-axis travel	470mm	540mm
T型槽尺寸/距离/数量	T-slot size/distance/number	12mm / 63mm / 3	18mm / 80mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	470mm	550mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	2.2KW DC brushless motor	2.2KW DC brushless motor
外形尺寸及重量	DIMENSIONS AND WEIGHT		
外形尺寸(长×宽×高)	size(L×W×H)	1073x791x1324mm	950x1210x1520mm
包装尺寸(长×宽×高)	packing size(L×W×H)	844x844x1342mm	904x904x1535mm
净重/毛重	Net weight/Gross weight	266/318kg	426/492kg

可选附件:

- 石英工作灯 JC34A
- 冷却系统
- 58 件套铣床夹具
M10x1.5 (BF30 V) M16x2.0(BF46 V)
- 套装铣夹头 (8 件 / 套) MT3 (BF30 V)
SK40 (BF46 V)
规格 4-16mm
- 套装立铣刀 (20 件 / 套)
- 铣床机用平口钳 QG150
- 可转位端面铣刀 Ø80mm/MT3
- 全钢床脚及油盘
- 三轴数显装置
- 立卧两用精密回转工作台 ERT-HV150
- 工作台自动进给器

Optional equipment:

- Halogen system
- Coolant pump
- 58pcs clamping tool kit
M10x1.5 (BF30 V) M16x2.0(BF46 V)
- Milling chuck set (8pcs/set) MT3 (BF30 V)
SK40 (BF46 V)
size 4-16mm
- End milling cutter set(HSS 20pcs)
- Milling vice QG150(150mm)
- Face milling cutter Ø80mm/MT3
- Steel stand and chip tray
- X/Y/Z 3-axis DRO
- H/V Precision rotary table ERT-HV150
- Table power feed

DRILLING & MILLING MACHINE

钻 铣 床 BF50 TC

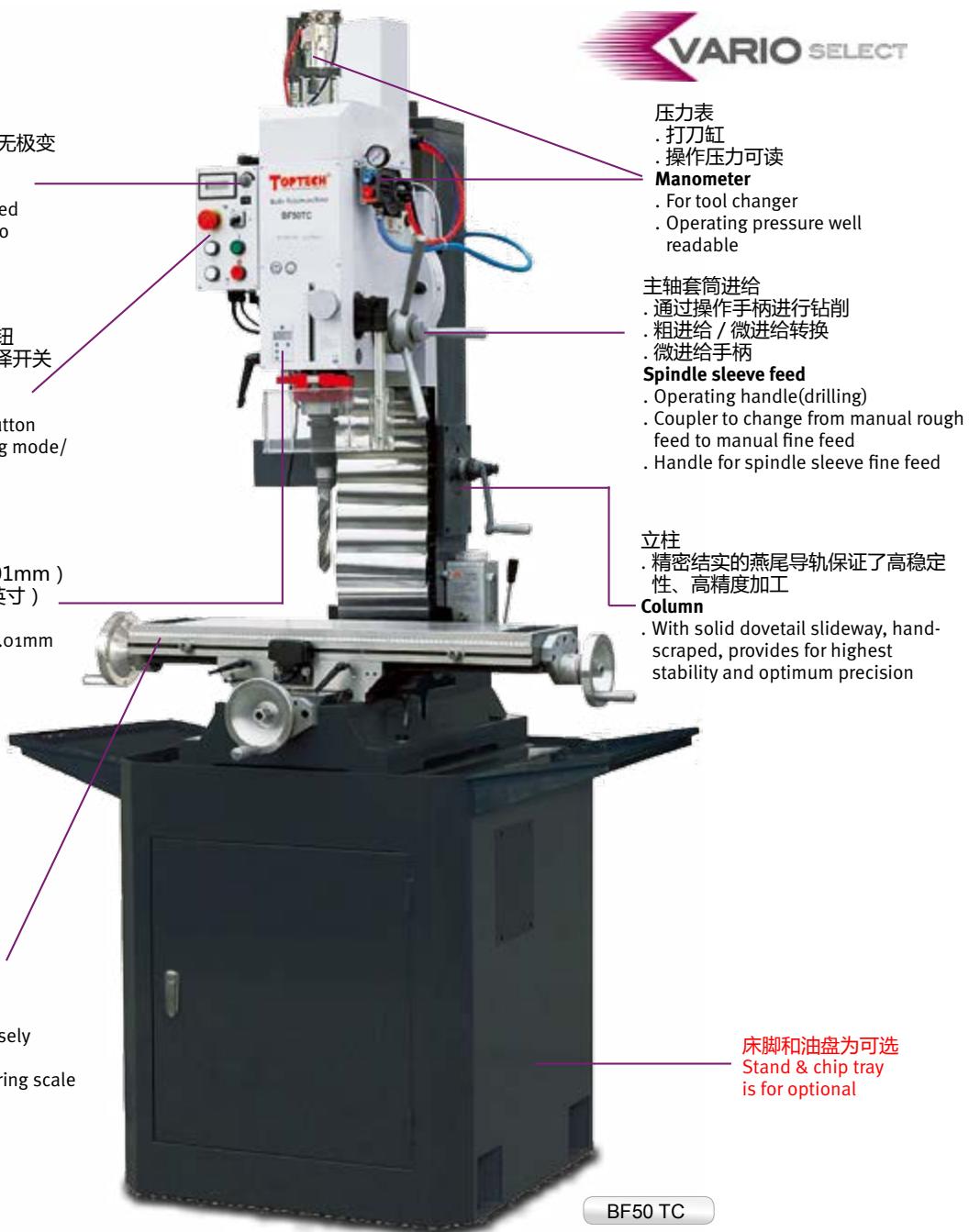
优质、高效、高性价比

- 高强度铸铁
- 无极变速
- 高同心度滚锥轴承，套筒测量精度高于 0.015mm
- 齿轮头可± 60°偏转
- 齿轮头的燕尾滑轨保证机床的高稳定性和最佳精度
- 可选的高强度钢底座

- 钻削深度可调
- 攻丝模式
- 自动模式
- CNC预留 (特殊滚轴丝杆及Y轴从后部安装的安装套件)
- 集中润滑系统
- 性价比高
- 打刀缸，Z轴电动升降

Convincing arguments: quality, efficiency and price

- Heavy, solid casting
- Infinitely variable drive
- High concentricity precision due to taper roller bearings, higher than 0.015 mm measured in the spindle sleeve
- Gearhead ± 60° slewable
- Solid dovetail slideway of the gearhead provides for highest stability and optimum precision
- Optional, solid, heavy steel substructure provides for stability
- Drill depth stop
- Threading mode
- Automatic mode
- CNC prepared (special spindle bearing of the axes and assembly options of the Y-axis housing from the rear side)
- Central lubricating for spindle, screw nut and slideways
- Cost-efficient and of stable value
- For tool changer,Z-axis power feed



机床技术参数 /Specification

型号	Model	BF50 TC
产品编号	Code No.	2505000
加工范围	CAPACITY	
钻孔直径	Drilling capacity(max.)	Ø45mm
面铣直径	Milling capacity cutter head(max.)	Ø80mm
立铣直径	Milling capacity end mill cutter(max.)	Ø32mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle holding fixture	SK40/MT4
套筒直径	Sleeve diameter	Ø80
套筒行程	Sleeve travel	115mm
主轴轴线至立柱表面距离	Distance spindle-column	290mm
钻铣头	DRILL-MILL HEAD	
主轴箱倾斜角度	Head rotation	±60°
主轴转速	Gear stages speed	L:115-600rpm M:270-1400rpm H:590-3100rpm
十字工作台	CROSS TABLE	
工作台(长×宽)	Tabel(L×W)	850x240mm
X轴行程	Y-axis travel	500mm
Y轴行程	X-axis travel	260mm
Z轴行程	Z-axis travel	540mm
T型槽尺寸/距离/数量	T-slot size/distance/number	18mm / 80mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	550mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	2.2KW DC brushless motor
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸(长×宽×高)	size(L×W×H)	1230×948×1519mm
包装尺寸(长×宽×高)	packing size(L×W×H)	1210×950×1320mm
净重/毛重	Net weight/Gross weight	480/525kg

细节展示 Details



- 手动润滑泵
- Lubricant pump



- 气动换刀
- Pneumatic tool changer



- Z 轴电动升降
- Z-axis power feed

细节展示 Details



自动模式

在自动模式下，电机能够自动的开始操作和自动的回到原始状态，无须重复使用按钮来控制其开始和停止。

In the automatic mode, the engine will start automatically upon lifting the lever and stops in the initial position. This way, it is not necessary to press the push button Start and Stop for repeated drilling tasks.

攻丝模式

当向下扳动星形把手时电机启动，开始攻丝。丝锥旋转方向是通过按动深度调节尺上的开关来实现。

The engine is being activated by moving the star grip downward. The turning direction is changed by pressing the end switch on the adjustable drilling depth stop.

DRILLING & MILLING MACHINE

钻 铣 床 MH12V/MH20V/MH22V



优质、高效、高性价比

- 两级齿轮变挡
- 100-3000rpm电子无级变速驱动
- 三轴燕尾导轨运行平整精确，且行程数据可显示
- 刀具锥度MT2 (MH20V);
刀具锥度BT20, 简易换刀装置 (MH22V)
- 触摸式控制面板，操作简易、清晰
- LED工作灯，套筒行程显示采用磁删尺读数
- 铣头可90°倾斜，可进行任意角度的钻铣削
- 带有可调节高度的双层铣夹头防护罩
- 性能稳定、性价比高

Convincing arguments: quality, efficiency and price

- Two-step gear-transmission
- 100-3000rpm electronic infinitely variable drive
- Stable dovetail guiding precision ground and scrapped with re-adjustable V-leges, and all travel speed are readable on scales
- Tool holding-fixture MT2 (MH20V);
Tool holding-fixture BT20 with simple tool-change system (MH22V)
- Easy and clear operation due to touch panel
- LED lamp, sleeve traval is readable through magnetic-scale
- The drill head can be inclined by $\pm 90^\circ$, thus permitting milling and drilling operation at any angular position
- With double-layer height-adjustable screening grid
- Price-efficient and stable value



MH20V



. 高度可调的双防护罩
. Double safety guard with height adjustment



MH22V

控制面板

- 速度数字显示
- 急停按钮
- 无极调速最大值到 3000rpm

Control panel

- Digital speed display
- Emergency-stop push button
- Variable speed adjustment up to 3000rpm

机床技术参数 /Specification

型号	Model	MH 12V	MH 20V	MH 22V
货号	Item number	2501200	2501800	2502200
电机	Motor			
插头电源	Electrical connection	230V 50HZ	230V 50HZ	230V 50HZ
电机功率	Motor power	450W	750W	950W
加工范围	Milling capacity			
钢制品切削量	Drilling capacity in steel (S235JR)	Ø13mm	Ø20mm	Ø20mm
钢制品连续切削量	Continuous drilling capacity in steel (S235JR)	Ø11mm	Ø16mm	Ø16mm
铣刀最大尺寸	Milling head dimension max.	Ø50mm	Ø63mm	Ø63mm
立铣刀最大尺寸	End mill dimension max.	Ø16mm	Ø20mm	Ø20mm
主轴	Spindle seat			
主轴行程	Spindle stroke	60mm	50mm	50mm
主轴类型	Spindle seat	MT2	MT2	BT20
主轴到立柱距离	Throat	145mm	188mm	185mm
套筒直径	Spindle sleeve diameter	/	Ø60mm	Ø60mm
拉杆	Draw-in rod	M10	M10	/
钻铣头	Drilling-milling head			
主轴转速	Spindle speed	80-2500 rpm	100-3000 rpm	90-3000 rpm
齿轮档位数	Gear stages/Steps	Gear:2	Gear:2	Gear:2
主轴箱倾斜角度	Inclination of spindle head	/	±90°	±90°
十字工作台	Cross table			
工作台长 × 宽	Table length x table width	390x100mm	400x120mm	700x180mm
T型槽尺寸 / 距离	T-slot size /distance	10mm/30mm	10mm/35mm	12mm/63mm
主轴到工作台距离	Distance spindle - cross table	260mm	280mm	370mm
行程	Travel			
X 轴行程	Travel X axis	240mm	220mm	480mm
自动 / 手动	automatic/ manual	manual	manual	manual
Y 轴行程	Travel Y axis	100mm	160mm	175mm
自动 / 手动	automatic/ manual	manual	manual	manual
Z 轴行程	Travel Z axis	200mm	210mm	370mm
自动 / 手动	automatic/ manual	manual	manual	manual
尺寸	Dimensions			
长 × 宽 × 高	Length x width x height	/	636×499×857mm	770×714×917mm
净 / 毛重	N.W./G.W.	/	70/90kg	116/143kg

随机标准附件:

- T型螺钉 M8×60(M10×60 , MH22V)
- 螺母 M8(M10 , MH22V)
- 垫片 8(10 , MH22V)
- 十字起子 , 一字起子
- 六角扳手 2.5/3/4/5/6/8
- 呆扳手 8-1/12-14/16-18/25(16-18/25 , MH22V)

Standard Accessories included:

- T-solt bolt M8×60(M10×60 , MH22V)
- nut M8(M10 , MH22V)
- washer 8(10 , MH22V)
- crosshead-screwdriver/straight
- allen key 2.5/3/4/5/6/8
- fixed spanner 8-1/12-14/16-18/25(16-18/25 , MH22V)

DRILLING & MILLING MACHINE

钻 铣 床 MH25V/MH25SV

优质、高效、高性价比

- 用户易使用的主界面
- 平衡力使Z轴易调整
- 无级转速控制
- 摆臂轻松变换工具
- 主轴螺母调节主轴走刀器
- 全方位360导向(润滑油打滑)
- 精加工
- 三轴之间可自由调整角度
- 钻洗头可 $\pm 45^\circ$ 旋转
- 左右手轮可自动切换
- 带微动开关的升降界面框体
- 3轴燕尾导轨运行平稳精确
- MH 25SV
- 所有轴带无极变速
- X-/Y轴快速定位
- 数显表DRO5

Convincing arguments: quality, efficiency and price

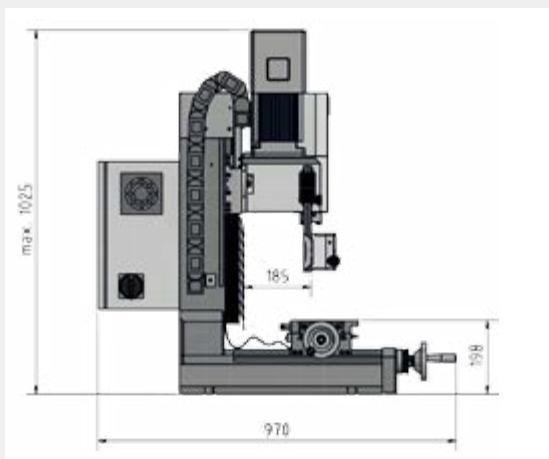
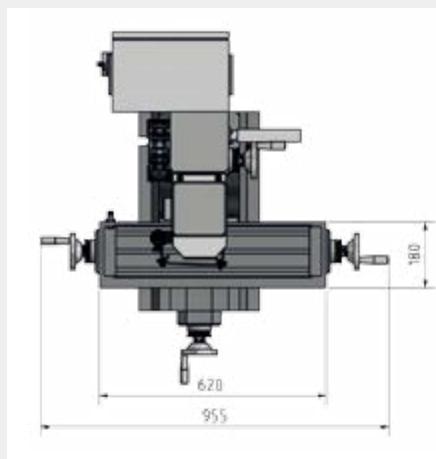
- User-friendly membrane key pad
- Counterweight eases the adjustment of the Z axis
- Infinately variable speed control
- Easy tool change by using a rocker arm
- Feed spindles adjustable by readjustable spindle nuts
- All guideways are ground and sight scrapped (oil pockets for greasing)
- Precisely manufactured
- Angular contact bearings in the axis, can be adjusted free of play
- Drilling-milling head slewable by $\pm 45^\circ$
- Right-hand/left-hand rotation
- Height-adjustable screening grid with micro switch
- Stable dovetail guiding precision ground and scraped with re-adjustable V-ledges
- MH 25SV:
- Infinately variable feed in all axis
- Rapid feed X-/Y-axis for rapid positioning
- Digital speed display DRO 5



机床技术参数 /Specification

型号	Model	MH25V	MH25SV
货号	Item no.	2502500	2502600
技术数据	TECHNICAL DATA		
插头电源	Electrical connection	230V 50HZ 1PH	230V 50HZ 1PH
电机功率	Motor power	1.5KW	1.5KW
加工范围	Drilling capacity		
钢制品最大钻孔能力	Drilling capacity in steel (S235JR)	Ø 20 mm	Ø 20 mm
最大铣削能力 (面铣)	Face milling dimension max.	Ø 50 mm	Ø 50 mm
最大铣削能力 (立铣)	End milling dimension max.	Ø 25 mm	Ø 25 mm
主轴	Spindle seat		
主轴类型	Spindle seat	BT30	BT30
主轴中心到立柱表面距离	Throat	185mm	185mm
钻铣头	Drilling-milling head		
主轴箱旋转角度	Swivel range	90°	90°
主轴转速	Spindle speed	200-4000 rpm	200-4000 rpm
十字工作台	Cross table		
工作台长度	Table length	620mm	620mm
工作台宽度	Table width	180mm	180mm
T型槽尺寸	T-slot size	12mm	12mm
行程	Travel		
X轴行程	X axis	400mm	400mm
Y轴行程	Y axis	210mm	210mm
Z轴行程	Z axis	270mm	270mm
三轴驱动电机扭矩	Torque driving motor		
X/Y/Z行程	X-/Y-/Z axis	/	2,2 / 2,2 / 4,2 Nm
自动进给走刀量	Automatic feed quantity		
X轴行程	X axis	/	150 / 930 mm/min.
Y轴行程	Y axis	/	100 / 580 mm/min.
Z轴行程	Z axis	/	80 / 450 mm/min.
尺寸	Dimensions		
外型尺寸	Length×width×height	914×844×1119mm	914×844×1119mm
净重/毛重	N.W./G.W.	192/242kg	200/250kg

Dimensions



DRILLING & MILLING MACHINE

钻 铣 床 MH28V

优质、高效、高性价比

- 齿轮头高强度燕尾导轨适合高精度高稳定性的加工
- 水平工作台稳固耐用，高精度，大尺寸而且工作台表面精密加工
- EMC滤波器（保护感光电子器件受电源信号干扰）
- 所有导轨经精加工处理
- 机床三轴上装有两排径向止推滚珠轴承便于自由调节
- 内部电气工作电压为24V而不是230V（避免危险）
- 使用可选配的CNC控制器通过集成的继电器控制可以开关机床
- 导轨处有风罩保护
- 正反转旋转开关
- 钻铣头可倾斜90度，可用于不同角度的钻铣工作
- 钻夹头防护罩尺寸大、高度可调节并带微动开关，有利防护铁屑飞溅和零件滑脱带来的危险

Convincing arguments: quality, efficiency and price

- Solid dovetail guideway of the gearhead provides for highest stability and optimum precision
- Solid, precise cross table, largely dimensioned and precisely machined surface
- EMC filter (to protect sensitive electronics for override mains-borne signals)
- All guideways are ground and sight scrapped (oil pockets for greasing)
- The machines are equipped with 2-rowed angular ball bearings in the axes allowing to adjust them free of play.
- Internal electrical works with 24 volts instead of 230 volts (risk potential)
- It is possible to switch the machine on and off using the optional CNC controller via an integrated relay control
- Bellow as guide protection
- Right-/left handed rotation
- Drilling milling head tiltable by $\pm 90^\circ$ for milling and drilling works at different angles
- Height-adjustable protective screen with micro switch providing maximum protection of the user against chips and parts flying off at high speed



转速

- 无级变速转速范围大，从100-2,500rpm
- 数显表显示清楚
- 正反转旋转开关

Speeds

- Large, speed variable speed range from 100 - 2.500 rpm
- Clear readable digital speed display
- Right-/left handed rotation

启动-停止连接

- 可选CNC控制器
- Start- Stop connection**
- optional CNC controller

立柱

- 立柱两边可进行30mm的调整、倾斜机头可延长工作台上工件加工的行程

Column

- Relocatable by 30 mm to both sides, thus there are longer travels also with tilted head and central processing of the workpiece on the cross table

限位装置

- 机械的
- 可调
- Limit stops**
- Mechanical
- Adjustable



MH 28V

机床技术参数 /Specification

型号	Model	MH z8 V
货号	Item no.	2502800
电器容量	Electrical connection	
电机	Motor	1.1 kW 230 V / 1 Ph ~50 Hz
加工范围	Drilling capacity	
钻孔能力	Drilling capacity in steel (S235JR)	Ø 28 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 25 mm
主轴	Spindle seat	
套筒直径	Throat	Ø 70 mm
主轴锥度	Spindle seat	MT3 or R8
钻铣头	Drill-milling head	
摆动角度	Swivel range	± 90°
主轴转速	Spindle speeds	100 - 2'500 rpm
十字工作台	Cross table	
工作台长度	Table length	730 mm
工作台宽度	Table width	210 mm
T型槽尺寸	T-slot size	14 mm
行程	Travel	
X轴行程	Travel X-axis	440 mm
Y轴行程	Travel Y-axis	190 mm
Z轴行程	Travel Z-axis	380 mm
尺寸	Dimensions	
长x宽x高	Length x width x height max.	940x730x1140mm
净重/毛重	NW./GW.	205/240 kg

标准附件：
 • 铣刀吊紧拉杆
 • 钻接杆 MT4/B16

Standard Accessories:
 • Draw bar
 • Morse taper MT4/B16



• 新床脚(可选)
 • New stand for operation

可选附件
 通用底座构架
 • 油盘
 通用冷却装置
 • 冷却箱尺寸：370 x 245 x 170 mm



Optional Accessories:
 Universal base frame
 • Chip tray
 Universal Coolant equipment
 • Tank size : 370 x 245 x 170 mm

DRILLING & MILLING MACHINE

钻 铣 床 MH35G/MH35V/MH50G/MH50V

优质、高效、高性价比

- 高强度铸件结构
- 无级调速 120~3600 rpm
- 正、反转
- 头箱可±60°偏转
- 导轨可调
- 深度限位

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Variable speed 120~3600 rpm
- Right-hand/left-hand rotation
- Gear head slewable by ± 60°
- Adjustable V-ledges
- Drill depth stop

控制面板

- 操作简易
- 急停开关
- 无级调速 120~3600 rpm
- 攻丝功能

Control panel

- Easy-to-operate
- Emergency-stop push button
- Variable speed 120~3600 rpm
- Threading function



主轴防护

- 高度可调
- 双护罩
- 微动开关

Safety screen

- Height-adjustable
- Double covers
- Micro switch



十字工作台

- 导轨可调
- 带 T型槽
- 通过 3 个手轮调节
- 带长度测量尺
- 限位可调

Cross table

- Adjustable V-ledges
- Including T-slots
- Adjustable via 3 handwheels
- Incorporated length measurement scale
- Adjustable limit stops



转速调节

- 通过拨档手柄轻易调节

Speed change

- Simply by actuating the gear selector switch

立柱

- 燕尾导向
- 手工铲刮

Column

- Dovetail guide
- Manually scraped

机床技术参数 /Specification

型号	Model	MH35G / MH35V	MH50G / MH50V
货号	Item no.	2703500 / 2503500	2705000 / 2705100
技术数据	TECHNICAL DATA		
插头电源	Electrical connection	400V 50HZ 3PH	400V 50HZ 3PH
电机功率	Motor power	1.1/1.5KW / 1.5KW	1.5/2.2KW / 2.2KW
加工范围	Drilling capacity		
钢制品钻孔能力	Drilling capacity in steel (S235JR)	Ø 32 mm	Ø 38 mm
钢制品连续切削量	Continuous drilling capacity in steel (S235JR)	Ø 28 mm	Ø 32 mm
最大铣削能力 (平铣)	Face milling dimension max.	Ø 80 mm	Ø 63 mm
最大铣削能力 (面铣)	End milling dimension max.	Ø 28 mm	Ø 32 mm
主轴	Spindle seat		
主轴行程	Spindle stroke	90mm	115mm
主轴类型	Spindle seat	BT30	BT40
主轴中心到立柱表面距离	Throat	235mm	260mm
钻铣头	Drilling-milling head		
主轴箱旋转角度	Swivel range	60°	60°
主轴转速	Spindle speed	330-3000 rpm / 120-3600 rpm	330-3000 rpm / 120-3600 rpm
十字工作台	Cross table		
工作台长度	Table length	750mm	850mm
工作台宽度	Table width	240mm	240mm
T型槽尺寸	T-slot size	12mm	18mm
行程	Travels		
X轴行程	X axis	max. 450 mm	max. 500 mm
Y轴行程	Y axis	max. 200 mm	max. 260 mm
Z轴行程	Z axis	max. 460 mm	max. 540 mm
尺寸	Dimensions		
外型尺寸	Length×width×height	864×844×1577mm	924×964×1809mm
净重/毛重	N.W./G.W.	316/376kg / 306/366kg	525/595kg / 515/585kg

DRILLING & MILLING MACHINE

钻 铣 床 MF1 V

优质、高效、高性价比

- 厚重结实的高级米哈奈特铸铁制造
- 所有轴燕尾导轨可调
- 锥形滚珠轴承产生的高运转精度，主轴套筒内测得的数据为小于0.01mm
- 主轴自动进给
- 主轴、丝杆螺母和导轨采用中央润滑
- 铣头可左右90度回转
- 主轴机头支撑可90度回转

Convincing arguments: quality, efficiency and price

- Heavy, solid type made of high-grade Meehanite casting
- All axes with adjustable dovetail guide
- High true running accuracy due to taper roller bearings of less than 0.01 mm measured in the spindle sleeve
- Automatic spindle sleeve feed
- Central lubricating for spindle, screw nut and guideways
- Milling head can be slewed to the left and right by 90°
- Spindle head support slewable by ± 90°

强大的无刷驱动器 Powerful Brushless drive

- 特别地平稳运行
- 转矩在整个速度范围内基本不变
- Particularly smooth running
- Nearly constant torque over the entire speed range



控制面板

- 速度数字显示
 - 左右旋转
 - 急停按钮
 - 电位计
 - 按钮停止/启动
- Control panel**
- Digital speed display
 - Right-/left handed rotation
 - Emergency-stop push button
 - Potentiometer
 - Push button stop / start

钻削深度可调

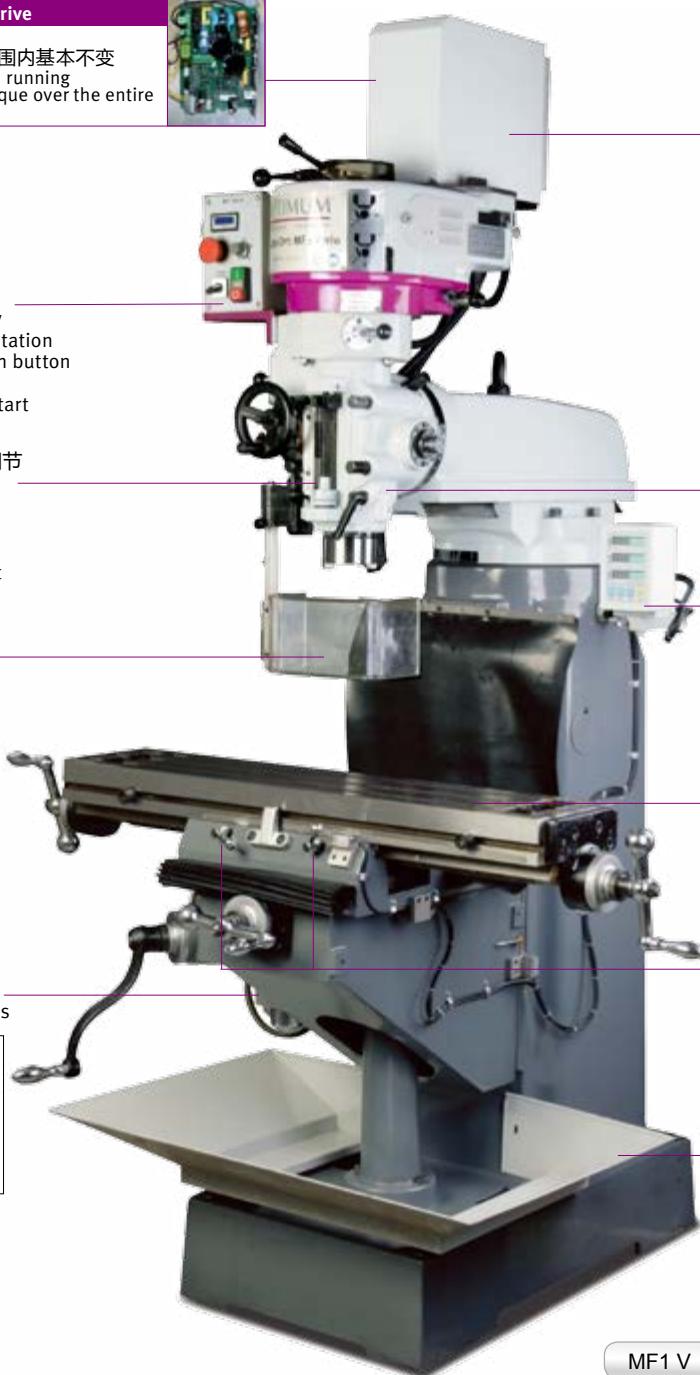
- 使用毫米范围内可调节
 - 前面可读
- Drilling depth stop**
- Adjustable using the millimetre scale
 - Readable at the front

安全防护罩

- 高度可调节
 - 大尺寸
 - 微动开关
- Safety screen**
- Height-adjustable
 - Largely dimensioned
 - Micro switch

中央润滑

- 十字工作台和Z轴
- Central lubricating**
- Cross table and Z axis



主轴转速

- 无极变速控制变频器
 - 非常广泛的转速范围
- Spindle speeds**
- Infinitely variable speed control with frequency converter
 - Very wide speed range

铣头

- 可倾斜±90°
- Milling head**
- Slewable by ±90°

- 数显装置
- 三轴数显(X-Y-Z)
- 可单独编程
- 三排五段显示

Digital Read Out DRO

- Compact digital 3-axes position display (X - Y - Z)
- Individually programmable
- Three-row five-segment display

十字工作台 Cross table

- 高强度、高精
度、大尺寸
- 表面精加工
• Precisely machined at the surface

X 轴

- 可调节的开关
- X axis**
- Adjustable limit stops

油盘

- 可移动
- Chip tray**
- Removable

MF1 V

机床技术参数 /Specification

型号	Model	MF 1 V
货号	Item no.	2310080
电压	Electrical connection	230 V / 1 Ph ~50 Hz
电机功率	Motor	2.2 kW
加工范围	Drilling-milling capacity	
钢制品钻孔能力	Drilling capacity in steel (S235JR)	Ø 30 mm
钢制品连续切削量	Continuous drilling capacity in steel (S235JR)	Ø 21 mm
最大铣削能力 (平铣)	Milling head dimension max.	Ø 63 mm
最大铣削能力 (面铣)	End mill dimension max.	Ø 20 mm
主轴	Spindle seat	
主轴行程	Spindle stroke	127 mm
主轴类型	Spindle seat	ISO 40 DIN 2080
钻铣头	Drilling-milling head	
主轴箱旋转角度	Swivel range	± 90°
主轴回转角度	Inclination of spindle head carrier	± 180°
主轴转速	Spindle speed	50 - 6'300 min⁻¹
齿轮级数	Gear stages Vario	6 steps, electrically adjustable speed
主轴套筒自动进给	Automatic spindle sleeve feed	0.04 / 0.08 / 0.16 mm/rev
十字工作台	Cross table	
工作台尺寸	Table length x table width	915 x 200 mm
最大承载重量	Load of cross table (max.)	160 kg
T型槽尺寸/距离	T-slot size /distance	16 mm / 64 mm / number 3
主轴端面至工作台面最大距离	Distance spindle - cross table	360 mm
行程	Travels	
X轴行程	Travel X axis	570 mm
Y轴行程	Travel Y axis	210 mm
Y轴行程的主轴头支架	Travel Y axis spindle head support	330 mm
Z轴行程	Travel Z axis	365 mm
尺寸	Dimensions	
包装尺寸	Length x width x height	1'350 x 1'050 x 2'015 mm
重量	Total weight	850 kg

DRILLING & MILLING MACHINE

多功 能 钻 铣 床 MT2BV

优质、高效、高性价比

- 厚重结实的高级米哈奈特铸铁制造
- 无级变速驱动
- 结实的Z轴矩形导轨
- 所有轴均带可调燕尾导轨
- 可调钻削深度限位带刻度尺
- 锥形滚珠轴承产生的高同心度，主轴套筒内测得的数据为小于0.01mm
- 主开关带电机保护，带急停开关按钮
- 主轴自动进刀
- 攻丝正反转开关

标准附件

- 操作工具
- 油盘
- 3 轴数显
- X 轴自动进给器
- 冷却装置
- LED 工作灯
- Standard accessories
- Operating tool
- Chip tray
- 3-axis digital position display
- X-axis power feeder
- cooling pump
- LED working lamp

Convincing arguments: quality, efficiency and price

- Heavy, compact model made of high-grade Meehanite casting
- Variable drive for stepless vario speed
- Solid rectangular guideways for Z-axis
- All axes with adjustable dovetail guideway
- Adjustable drill depth stop with millimeter scale
- High true running accuracy due to taper roller bearings, better than 0.01 mm measured in the spindle sleeve
- Main switch with motor protection, emergency-stop push button
- Automatic spindle sleeve feed
- Chip tray
- Right-/left handed rotation for tapping

可选附件

- Y/Z 轴自动进给器
- 气动拉杆
- 机用平口钳 QG100
- 58 件套套装夹具 (M14x2)
- 套装铣夹头 J7325(8 件 / 套)
- Optional accessories
- Y/Z-Axis power feeder
- Air power draw bar
- Milling vice QG100
- 58pcs Clamping Fixture(58pcs/set)
- Milling chuck set J7325(8pcs/set)
- Milling chuck set J7325(15pcs/set)

钻铣头

- 可向两边倾侧
- Drill-milling head
- Inclinable to both sides

操作面板带数字定位显示

- 易操作
- 大量缩减生产时间
- 可在床身左右侧回转

Operating panel with digital positioning display

- Easy-to-operate
- Considerable reduction of the manufacturing times
- Slewable to the left and right side of the machine

冷却装置

- 带有定量阀和停止阀
- 个别塑料器件带各种水管

Coolant equipment

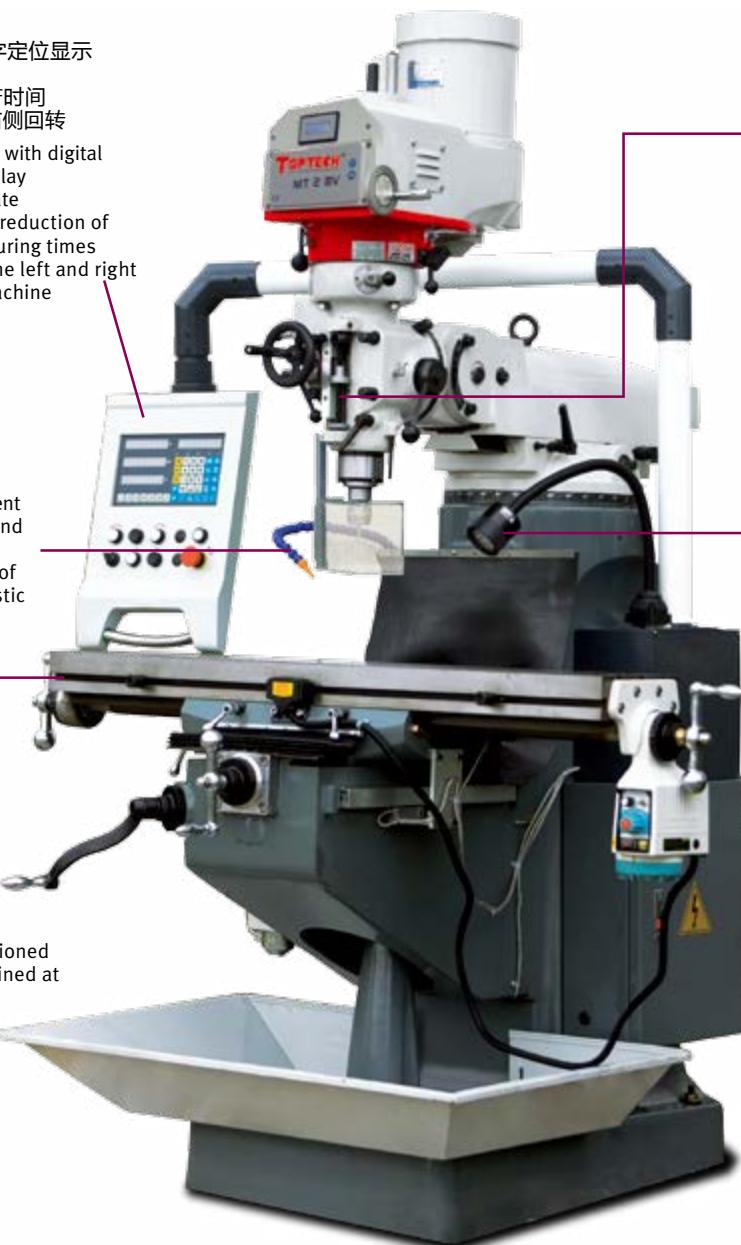
- Dosing valve and stop valve
- Variable hose of individual plastic elements

水平工作台

- 高强度
- 高精度
- 大尺寸
- 表面精加工

Cross table

- Solid
- Precise
- Largely dimensioned
- Precisely machined at the surface



工作灯

- 光线集中的LED灯
- 带阳极氧化处理, 半宽辐射循环的反射器

Machine lamp

- Concentrated LED light
- Anodized, semi-wide radiating round reflector

机床技术参数 /Specification

型号	Model	MT 2 BV
货号	Item no.	2320080
电器容量	Electrical connection	
总电机功率	Motor ~50 Hz	2.2 kW 230 V / 1 Ph ~50 Hz
冷却泵功率	Motor cooling pump	40 W
钻铣头	Drill-milling head	
钻孔能力	Drilling capacity in steel (S235JR)	Ø 18 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 16 mm
最大卧铣直径	Milling head dimension max.	Ø 75 mm
最大立铣直径	End mill dimension max.	Ø 20 mm
主轴	Spindle seat	
主轴行程	Spindle travel	127 mm
主轴锥度	Spindle taper	ISO 40 (DIN 2080)
套筒直径	Throat	Ø 86 mm
钻铣头	Drill-milling head	
主轴转速	Spindle speed	60 - 4'200 rpm
主轴自动进给	Automatic spindle sleeve feed	0,086/0,045/0,142 mm/rev
主轴头前后倾斜角度	Inclination of spindle head	± 45°
十字工作台	Cross table	
工作台尺寸	Table length x Table width	1'245 x 230 mm
T型槽尺寸宽度/距离/数量	Slot size /Distance	16 mm/63 mm/3
最大承载重量	Load of cross table (max.)	350 kg
行程	Travel	
X轴行程	Travel X-axis automatic	730 mm
Y轴行程	Travel Y-axis manual	320 mm
Z轴行程	Travel Z-axis manual	390 mm
尺寸	Dimensions	
长	Length	1'660 mm
宽	Width	1'800 mm
高	Height	2'040 mm
净重/毛重	N.W./G.W.	1'100 /1280kg

细节展示 Details



控制面板
• 可向床身两边倾侧
Control panel
• Inclinable to both sides of the machine



X轴走刀器
• 带无级变速调节
X-axis power feed
• with infinitely variable speed adjustment



无级变速
• 机械无级变速驱动
• 主轴转速60-4'200rpm
variable speed
• Mechanical stepless driver
• Spindle speed 60 - 4'200 rpm

VERTICAL & HORIZONTAL DRILLING & MILLING MACHINE

立卧两用钻铣床 MT50/MT50V

优质、高效、高性价比

- 厚重结实的高级缓震铸铁制造
- 微进给操作
- X轴手动/自动进给
- 通过加装卧铣挂架可夹持侧面铣刀
- 立铣位置的操作带钻削，有角度的钻削，以及最大程度的铣操作

标准附件

- 钻夹头
- 变径套
- 变径套
- 操作工具
- 冷却装置
- LED工作灯
- X轴进给器
- Drill chuck Ø 3 - 16mm / B18
- Reducing bush 7:24 MK4 / MK3
- Reducing bush 7:24 MK4 / MK2
- Operating tool
- Coolant equipment
- Machine lamp
- x-axis power feeder

Convincing arguments: quality, efficiency and price

- Heavy, compact model made of high-grade vibration absorbing cast iron
- Spindle sleeve feed operating handle (drilling) or with fine feed handwheel to manual fine feed
- The X-axis can be selectively moved with the handwheel or via the feed device
- For operations in horizontal milling position with counter support and support for side milling cutters, adjustable slide bearing
- For operations in vertical milling position with drilling, Inclined drilling and at the most milling operations

可选附件

- 机用平口钳QG100
- 58件套夹具 (M12)
- 套装铣夹头 J7325(8件/套)
- 套装铣夹头 J7325(15件/套)
- 3轴数显

Optional accessories

- Milling vice QG100
- 58pcs Clamping fixture M12
- Milling chuck set J7325(8pcs/set)
- Milling chuck set J7325(15pcs/set)
- 3-axis digital position display

操作面板带数字行程显示

- 易操作
- 大量缩减生产时间
- 可在床身左右侧回转

Operating panel with digital positioning display

- Easy-to-operate
- Considerable reduction of the manufacturing times
- Slewable to the left and right side of the machine

钻铣头

- 可向两边倾侧
- Drill-milling head
- Inclinable to both sides

可调主轴头

- 向前和向后移动
- Adjustment of spindle head
- move forward and backward

冷却装置

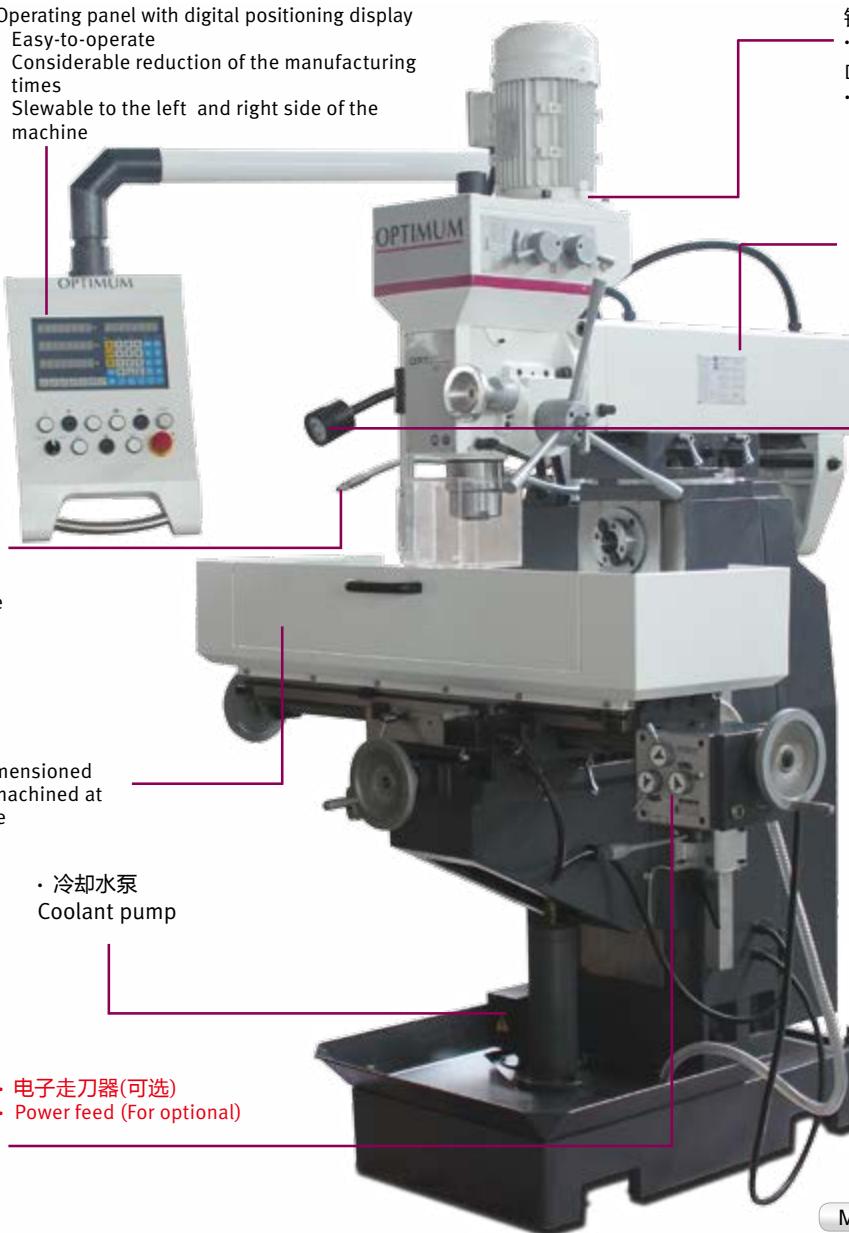
- 带有定量阀和停止阀
- 个别塑料器件带各种水管
- Coolant equipment
- Dosing valve and stop valve
- Variable hose of individual plastic elements

工作灯

- 光线集中的LED灯
- 带阳极氧化处理,半宽辐射循环的反射器
- Machine lamp
- Concentrated LED light
- Anodized, semi-wide radiating round reflector

水平工作台

- 高强度
- 高精度
- 大尺寸
- 表面精加工
- Cross table
- Solid
- Precise
- Largely dimensioned
- Precisely machined at the surface



机床技术参数 /Specification

型号	Type	MT50	MT50V
货号	Item No	2205000	2205100
电器容量	Electrical connection		
总电机功率	Total connected value	4.5 kW 400 V~50 Hz or 230 V~50 Hz	4.5 kW 400 V~50 Hz or 230 V~50 Hz
卧铣电机功率	Motor horizontal spindle	1.5 kW	1.5 kW
立铣电机功率	Motor vertical spindle	1.1 / 2.2 kW	1.1 / 2.2 kW
冷却泵功率	Motor coolant pump	40 W	40 W
进给电机功率	Motor table	370 W	370 W
立铣	Spindle seat vertical		
主轴锥度	Spindle seat	SK 40	SK 40
主轴行程	Spindle stroke	120 mm	120 mm
钻孔能力	Drilling capacity in steel (S235JR)	Ø 50 mm	Ø 50 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 40 mm	Ø 40 mm
套筒直径	Throat	Ø 90 mm	Ø 90 mm
主轴转速	Spindle speed	115-1750 rpm	100-600/350-2000 rpm
齿轮级数	Gear stages	8 steps	2 steps
卧铣	Spindle seat horizontal		
主轴锥度	Spindle seat	SK 40	SK 40
钻孔能力	Drilling capacity in steel (S235JR)	Ø 50 mm	Ø 50 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 40 mm	Ø 40 mm
套筒直径	Throat	Ø 90 mm	Ø 90 mm
主轴转速	Spindle speed	60 - 1'355 rpm	60 - 1'355 rpm
齿轮级数	Gear stages	9 steps	9 steps
十字工作台	Cross table		
工作台尺寸	Table length x Width	1000x240mm 1200x240mm (For optional)	1000x240mm 1200x240mm (For optional)
T型槽尺寸	T-slot size	14 mm	14 mm
最大承载重量	Load capacity (max.)	160 kg	160 kg
主轴端面至工作台面距离	Distance spindle - crosstable	60-390 mm	60-390 mm
X轴自动行程	X-axis Travel	390 mm	390 mm
X轴工作台进给	X-axis Table feed	24 - 720 mm/min	24 - 720 mm/min
Y轴手动行程	Y-axis Travel manual	200 mm	200 mm
Z轴手动行程	Z-axis Travel manual	340 mm	340 mm
长x宽x高	Length x Width x Height	1'400 x 1'40 x 2'200 mm	1'400 x 1'40 x 2'200 mm
总重量	Total weight	900 kg	900 kg

细节展示 Details



- 卧铣位置**
· 加装卧铣挂架可夹持侧面铣刀
- Horizontal milling position**
· For operations in horizontal milling position with counter support and support for side milling cutters



- 控制面板**
· 可向床身两边倾侧
- Control panel**
· Inclinable to both sides of the machine



- 工作台走刀器**
· 自动走动
- Table power feeder**
· Automatic
- Table power feeder**
· Motor with gear table feed X-Axis



- 水平工作台罩壳**
· 可拆翻
- Housing cross table**
· folding

DRILLING & MILLING MACHINE

NEW

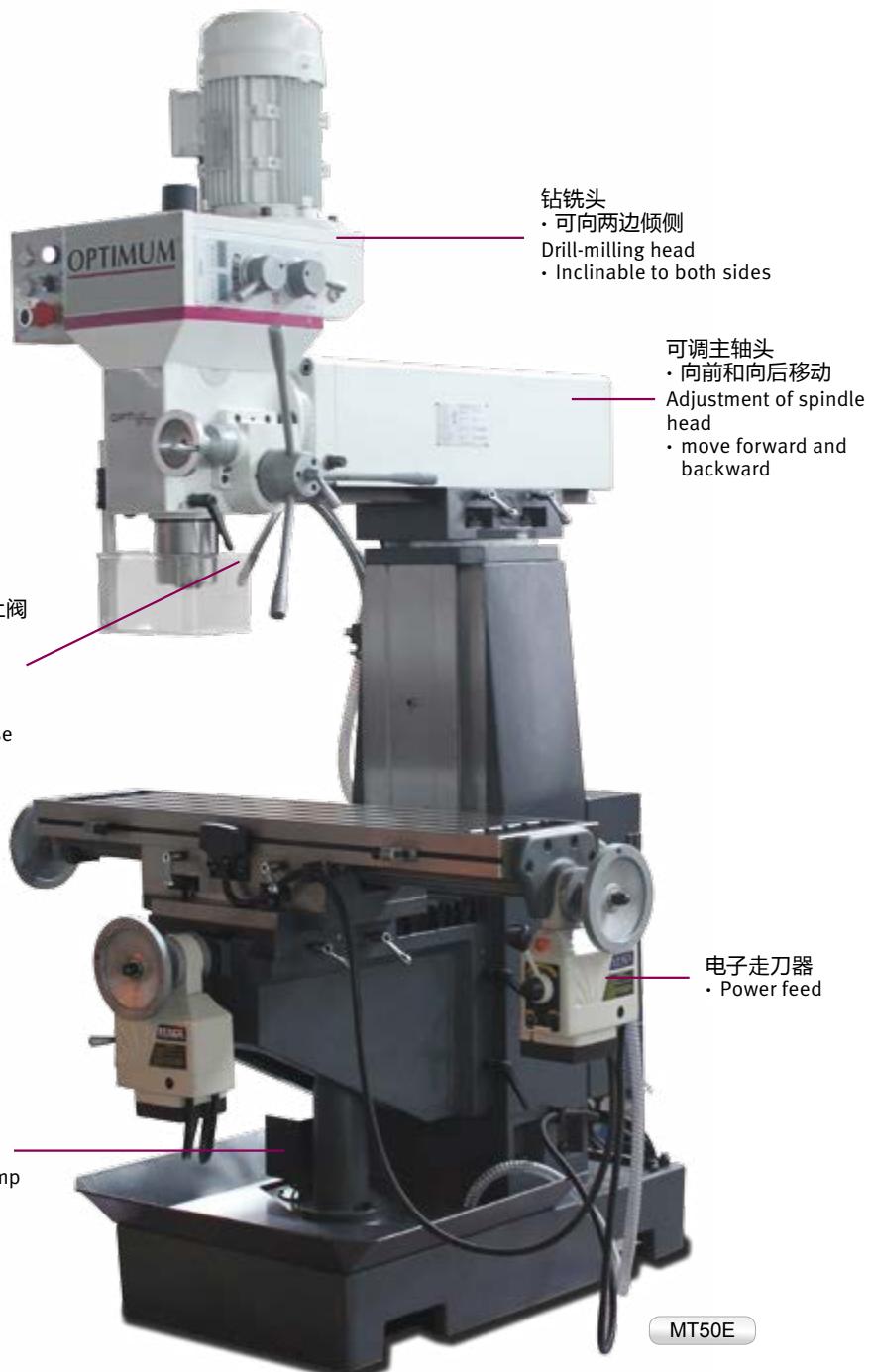
钻铣床 MT50E

优质、高效、高性价比

- 高级铸造制造缓冲
- 旋转铣头带齿轮箱
- 抛光淬火的齿轮浸在油槽内
- 可正转/反转
- 主轴走刀带微进给
- 通过联轴器将手动粗进给切换成手动微进给
- 高精度XY轴工作台，大尺寸，三轴燕尾导轨运
- 行平稳精确
- X、Y轴自动走刀带速度调节
- X轴带自动可调的限位开关硬限位
- 机械主轴走刀，通过主轴套筒手柄钻孔
- 工作台燕尾导轨可调
- 带冷却系统
- 带LED灯

Convincing arguments: quality, efficiency and price

- Vibration absorbing cast design
- Pivoting milling head with gearbox
- Gears in oil bath with polished, hardened gear wheel
- Clockwise/Anti-clockwise rotation
- Spindle sleeve feed with fine feed
- Coupling for switching from manual coarse feed to manual fine feed
- Precision XY table, generously dimensioned with precision
- surface finish with adjustable V-ledges
- Automatic feed of X and Y axis with speed adjustment
- Automatic and adjustable limit switch cut-off of the X axis
- Mechanical spindle sleeve feed for drilling via spindle sleeve lever
- Dovetail guides of the table, adjustable via V-ledges
- Coolant system
- LED lamp



MT50E

机床技术参数 /Specification

型号	Model	MT50E
货号	Item No	2705000
最大立铣直径	Max.end drilling dia	Ø20 mm
钻孔能力	Drilling capacity in steel (S235JR)	Ø 30 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 25 mm
套筒直径	Throat	Ø 90 mm
主轴锥度	Spindle taper	NT40
主轴档位数	Spindle speed number	8(V)
主轴转速范围 (50/60Hz)	Spindle speed range(50/60Hz)	115-1750/140-2100 (V)
立铣主轴和立柱面的距离	Distance between Vertical spindle and surface of column	250-650 mm
立铣主轴与工作台面的距离	Distance between Vertical spindle and surface of table	70-420 mm
立铣主轴行程	Vertical spindle travel	120(V) mm
工作台尺寸	Table size	1000×240 mm
工作台行程	Table travel	600×230 mm
T型槽尺寸	T-slot size	14 mm
X轴行程	X-axis Travel	600 mm
Y轴行程	Y-axis Travel	230 mm
Z轴行程	Z-axis Travel	350 mm
电机功率	Motor	YD100L-8/4 0.85/1.5KW(V)
外形尺寸	Overall size	1380×1220×2100 mm
净重 / 毛重	N.W/G.W	760/840 kg

随机标准附件:

- 钻夹头 Ø3-Ø16mm/B18
- 转接杆 ISO40/B18
- T型螺母 M14×55
- 退刀楔
- 变径套 ISO40-MT3 ; MT3/MT2

Standard Accessories included:

- Drill chuck Ø3-Ø16mm/B18
- Taper shank for drilling chuck ISO40/B18
- T-nuts M14×55
- Tilted wedge
- Adjustable sets ISO40-MT3 ; MT3/MT2

VERTICAL & HORIZONTAL DRILLING & MILLING MACHINE

立卧两用钻铣床 MT60



优质、高效、高性价比

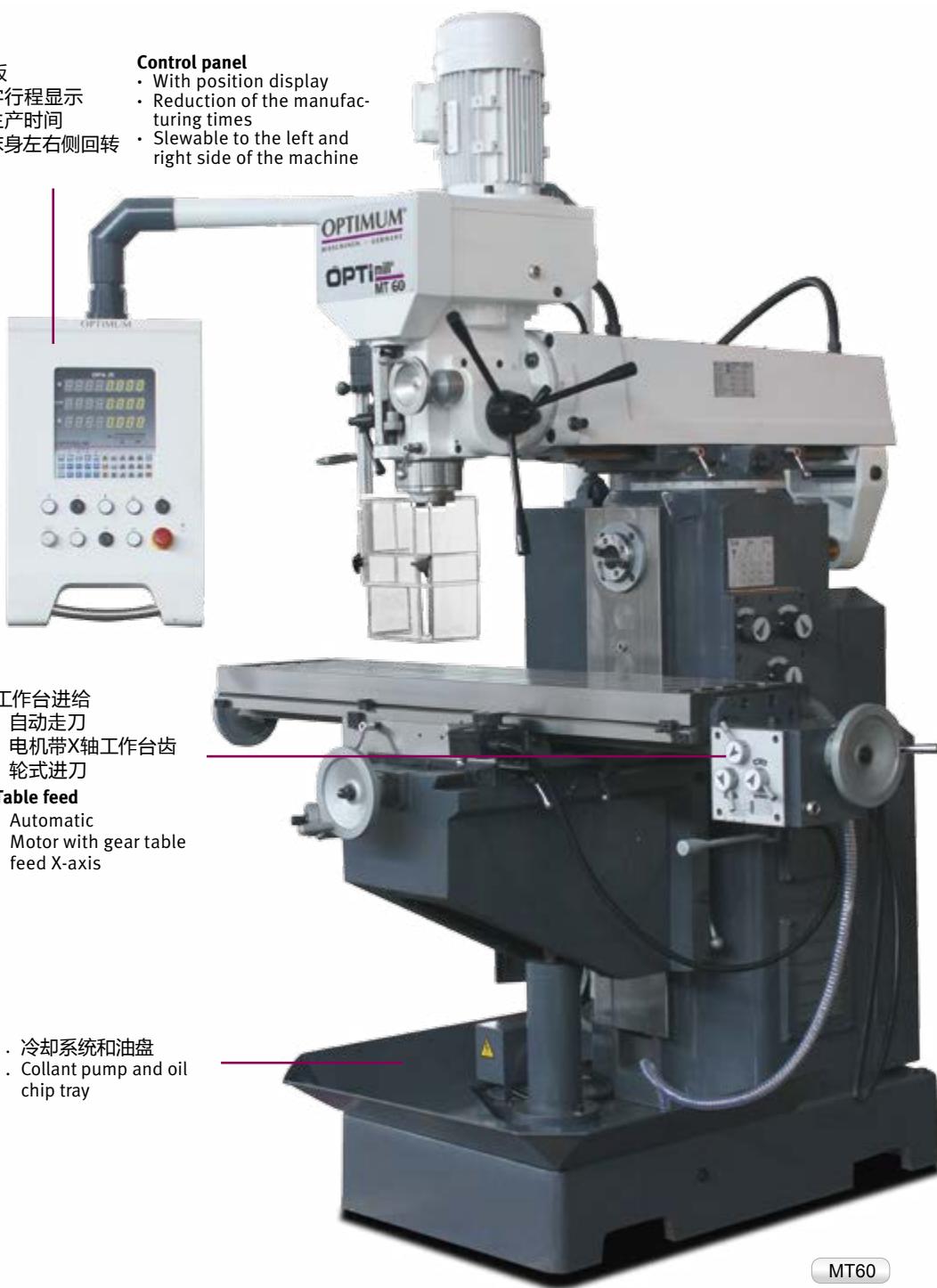
- 厚重结实的高级缓震铸铁制造
- 通过主轴套筒手柄或手动微进给手轮实现主轴自动进给
- X轴手动/自动进给

Convincing arguments: quality, efficiency and price

- Heavy, solid design using premium vibration-absorbing grey cast material
- Spindle sleeve feed via spindle sleeve lever or manual fine feed hand wheel
- X axis can be moved optionally with the hand wheel or the table feed unit

- 操作面板
· 带数字行程显示
· 缩减生产时间
· 可在床身左右侧回转

- Control panel**
· With position display
· Reduction of the manufacturing times
· Slewable to the left and right side of the machine



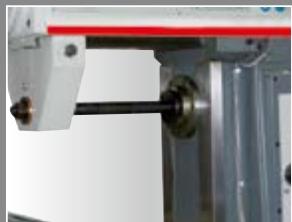
MT60

机床技术参数 /Specification

型号	Model	MT60
货号	Item No	2206000
最大钻孔直径	Max.drilling dia	Ø30 mm
最大立铣直径	Max.end drilling dia	Ø25 mm
主轴锥度	Spindle taper	R8 or ISO30 or ISO40
主轴档位数	Spindle speed number	8(V)/9(H)
主轴转速范围 (50/60Hz)	Spindle speed range(50/60Hz)	90-2000/108-2400 (V) rpm 40-1300/48-1560 (H) rpm
立铣主轴和立柱面的距离	Distance between Vertical spindle and surface of column	220-600 mm
立铣主轴与工作台面的距离	Distance between Vertical spindle and surface of table	125-460 mm
卧铣主轴与工作台面的距离	Distance between Horizontal spindle and surface of table	35-370(H) mm
立铣主轴行程	Vertical spindle travel	120(V) mm
工作台尺寸	Table size	1120X280 /1270X280 mm
工作台行程	Table travel	600X260 /750X260 mm
电机功率	Motor	2.2KW
外形尺寸	Overall size	1580x1450x2150 mm
包装尺寸	Packing size	1700x1360x2240 mm
净重 / 毛重	N.W./G.W.	900/1300kg

随机标准附件:

- 钻夹头 Ø3-Ø16mm/B18
- 转接杆 ISO40/B18
- T型螺母 M14×55
- 退刀楔
- 变径套 ISO40-MT3 ; MT3/MT2



卧铣位置

- 加装卧铣挂架, 可夹持侧面铣刀

Horizontal milling position

- For operations in horizontal milling position with counter support and support for side milling cutters, adjustable slide bearing

Standard Accessories included:

- Drill chuck Ø3-Ø16mm/B18
- Taper shank for drilling chuck ISO40/B18
- T-nuts M14×55
- Tilted wedge
- Adjustable sets ISO40-MT3 ; MT3/MT2



工作台走刀器

- 自动走刀
 - 电机带X轴、Y轴工作台齿轮式进刀
- Table power feeder**
- Automatic
 - Motor with gear table feed X-Aaxis



控制面板

- 可向床身两边倾侧
- Control panel**
- Inclinable to both sides of the machine

DRILLING & MILLING MACHINE

多功 能 钻 铣 床 MT8

标准附件

- 套装铣夹头 J7316A/40 M16 Ø4-16mm
 - 钻夹头Ø 1 - 16mm / B18
 - 钻接杆 SK40/B18
 - 变径套
 - SK40/MK3 SK40/MK2
 - 操作工具
 - 卧铣位置的操作交错支持，并支撑侧铣刀
 - 3轴数显
 - 气动打刀缸
 - 冷却装置
 - 工作灯
 - 卧式吊杆

Standard accessories

- Mill chuck set J7316A/40 M16 Ø4-16mm
 - Drill chuck Ø 1 - 16mm / B18
 - Arbor SK40/B18
 - Reducer
 - SK40/MK3 SK40/MK2
 - Operating tool
 - Counter support for horizontal milling with suport for side milling cutter
 - 3-axis position display
 - Pneumatic tool changer
 - Coolant equipment
 - Machine lamp
 - Horizontal boom

可选附件

- 机用平口钳 QG150/QG200
 - 58件套铣夹具 M16
 - 套装铣夹头 J7325-ISO40(8件套)
 - 套装铣夹头 J7325-ISO40(15件套)

Optional accessories

- Vice QG150/QG200
 - 58pcs mill fixture M16
 - mill chuck J7325-ISO40(8pcs)
 - Milling chuck set J7325-ISO40(15pcs)

操作面板带数字行程显示

- 易操作
 - 大量缩减生产时间
 - 可在床身左右侧回转

Operating panel with digital positioning display

- Easy-to-operate
 - Considerable reduction of the manufacturing times
 - Slewable to the left and right side of the machine

气动打刀钉

- 单手操作简单方便，更换时间短
 - 结构优化，重量变轻
 - 切换原理代理的安全锁扣功能
 - 优化几何带来的精确制导
 - 压缩空气消耗量最低

Pneumatic tool changer

- Pneumatic tool change
 - Short replacement times by one-hand operation
 - Low weight due to optimised structure
 - Safe locking due to toggle principle
 - Precise guidance due to optimised geometry
 - Lowest air consumption

钻铣头

· 功率强大

- ### **Drill-milling head**

十字工作台

- 高强度
 - 高精度
 - 大尺寸
 - 表面精加工
 - 快速电动调节高度

Cross table

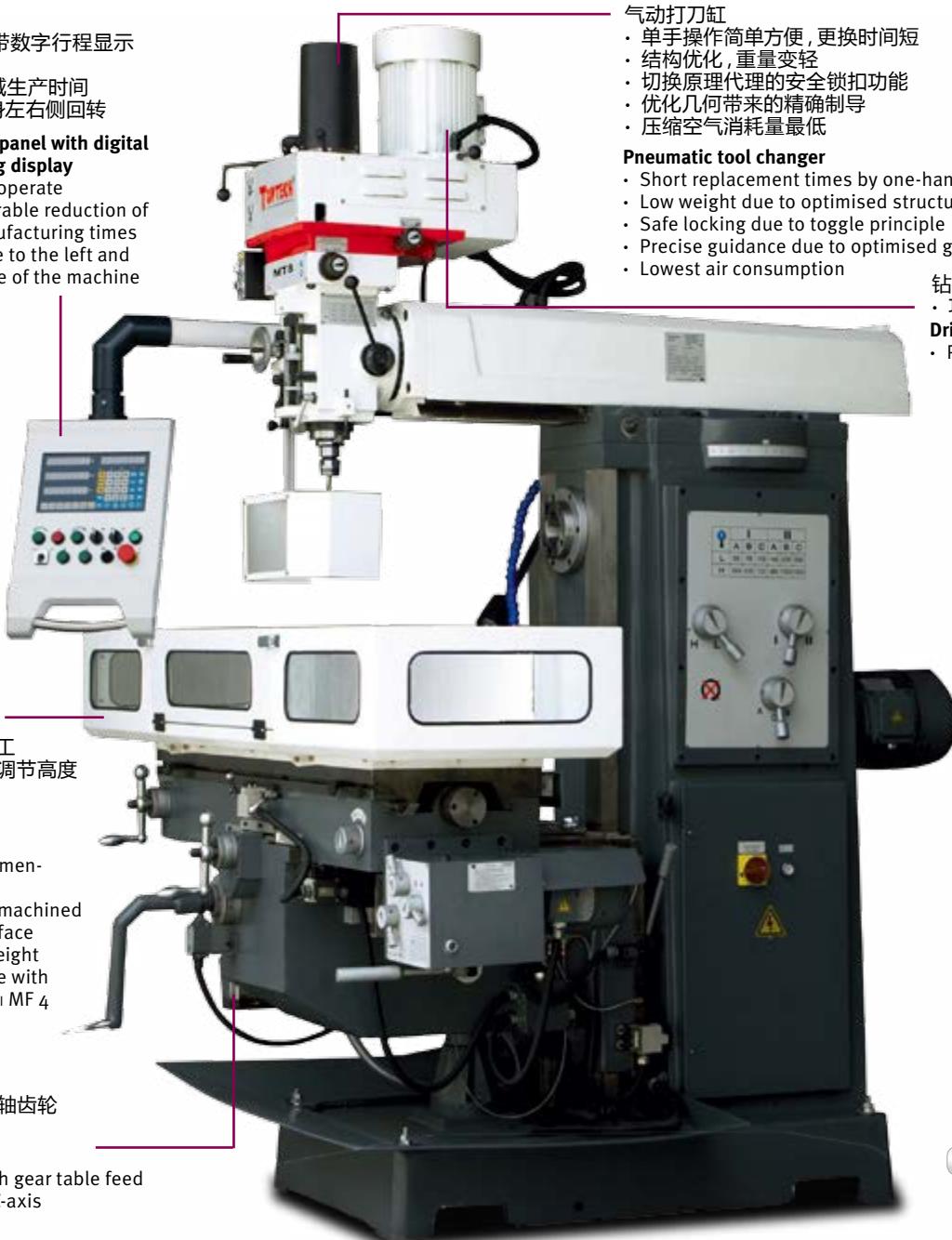
- Solid
 - Precise
 - Largely dimensioned
 - Precisely machined at the surface
 - Electric height adjustable with rapid (OPTI MF 4 Vario)

工作台走刀

- ### • 电机带两轴齿轮 式走刀

Table feed

- Motor with gear table feed
X- Y-and Z-axis



MT8

机床技术参数 /Specification

型号	Model	MT8
货号	Item no.	2280000
电器容量	Electrical connection	
总电机功率	Total connected value	10 kW 400 V / 3 Ph ~50 Hz
卧铣电机功率	Motor vertical spindle	5.5 kW
立铣电机功率	Motor horizontal spindle	4 kW
冷却泵功率	Motor coolant pump	90 W
立铣	Spindle taper	
钻孔能力	Drilling capacity in steel (S235JR)	Ø 30 mm
持续钻孔能力	Continuous drilling capacity in steel (S235JR)	Ø 21 mm
最大面铣直径	Milling head dimension max.	Ø 125 mm
最大立铣直径	End mill dimension max.	Ø 25 mm
立铣	Spindle taper vertical	
主轴锥度	Spindle taper	ISO 40
主轴转速	Spindle speed	60 - 4'660 rpm
转速级数	Gear stages	20 steps
卧铣	Spindle taper horizontal	
主轴锥度	Spindle taper	ISO 50
主轴转速	Spindle speed	58 - 1'800 rpm
齿轮级数	Gear stages	12 steps
十字工作台	Cross table	
工作台尺寸	Table length x width	1'320 x 360 mm
工作台进给	Table feed (9 steps)	15 - 370 mm/min
最大承载重量	Load of cross table (max.)	350 kg
T型槽尺寸宽度/距离/数量	T-slot size / distance / number	18 mm/80 mm/3
X轴自动行程	X-axis Travel automatic	980 mm
X轴工作台进给	X-axis Table feed	15 - 370 mm/min
Y轴自动行程	Y-axis Travel automatic	300 mm
Y轴工作台进给	Y-axis Table feed	575 mm/min
Z轴自动行程	Z-axis Travel automatic	450 mm
Z轴工作台进给	Z-axis Table feed	575 mm/min
尺寸	Dimensions	
长x宽x高	Length x width x height	1900x1900x2250mm
总重量	Total weight	2200/2400 kg

细节展示 Details

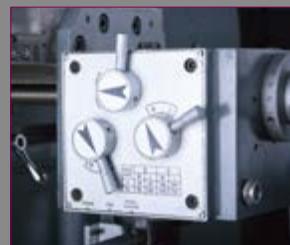


卧铣位置

- 加装卧铣挂架, 可夹持侧面铣刀

Horizontal milling position

- For operations in horizontal milling position with counter support and support for side milling cutters



工作台走刀器

- 自动走刀
- 电机带X轴、Y轴工作台齿轮式进刀

Table power feeder

- Automatic
- Motor with gear table feed X-Axis

UNIVERSAL MILLING MACHINE

万能铣床 MT100/MT200



MT200



MT100

- 铣头
• 两个旋转轴
• 带刻度尺

- Milling head
• Two rotation axes
• Scales

- 操作面板带数字定位显示
• 易操作
• 大量缩减生产时间
• 可在床身左右侧回转

- Operating panel with digital positioning display
• Easy-to-operate
• Considerable reduction of the manufacturing times
• Slewable to the left and right side of the machine

- 标准附件
• 钻夹头
• 钻接杆
• 变径套
• 变径套
• 变径套
- 操作工具
• 卧铣挂架,
卧铣刀杆
• 3轴数显
• 冷却装置
• 工作灯

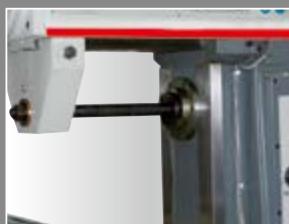
Standard accessories

- Drill chuck Ø 3 - 16mm / B18 (MT200)
- Arbor 7:24 ISO 50 (MT200)
- Adapter ISO 50 / MK3 (MT200)
- Adapter ISO 40 / MK3 (MT100)
- Adapter ISO40-B16 (MT100)
- Operating tool
- Counter support for horizontal milling with support for side milling cutter
- 3-axis position display
- Coolant equipment
- Machine lamp

机床技术参数 /Specification

型号	Model	MT 100	MT 200
货号	Item no.	2210080	2220080
电器容量	Electrical connection		
总电机功率	Total connection Motor	3.36 kW 400 V / 3 Ph	9.2 kW 400 V / 3 Ph
卧铣电机功率	Motor vertical spindle	2.2 kW 400 V / 3 Ph	4 kW 400 V / 3 Ph
立铣电机功率	Motor horizontal spindle	2.2 kW 400 V / 3 Ph	4 kW 400 V / 3 Ph
主轴	Spindle taper		
主轴锥度	Spindle taper	ISO 40 (DIN 2080)	ISO 50
攻丝	Draw-in rod	M16	M24
钻孔能力	Drilling capacity in steel (S235JR)	Ø 20 mm	Ø 30 mm
最大面铣直径	Milling head max.	Ø 85 mm	Ø 100 mm
最大立铣直径	End mill max.	Ø 16 mm	Ø 20 mm
立铣	Spindle taper vertical		
主轴转速	Spindle speed	45 - 1660 rpm	60 - 1750 rpm
齿轮级数	Gear stages	11 steps	12 steps
主轴端面至工作台面距离	Distance spindle - table	90 - 520 mm	140 - 540 mm
旋转范围	Rotation range	360°	360°
卧铣	Spindle taper horizontal		
主轴端面至工作台面距离	Distance spindle - table	140 - 520 mm	0 - 400 mm
主轴转速	Spindle speed	45 - 1660 rpm	58 - 1800 rpm
齿轮级数	Gear stages	11 steps	12 steps
十字工作台	Cross table		
工作台尺寸	Table length x width	1120 x 260 mm	1650 x 360 mm
工作台进给	Table feed (9 steps)	24 - 402 mm/min	20 - 380 mm/min
最大承载重量	Load capacity (max.)	350 kg	450 kg
T型槽尺寸宽度/距离/数量	T-slot size / Distance / Number	14 mm / 63 mm / 3	14 mm / 95 mm / 3
X轴	X-axis		
自动行程	Travel automatic	600 mm	1290 mm
工作台进给	Table feed	24 - 402 mm/min	20 - 380 mm/min
电机功率	Motor	370 W	1,1 kW
Y轴	Y-axis		
自动行程	Verfahrweg automatisch	270 mm	280 mm
工作台进给	Tischvorschub	24 - 402 mm/min	20 - 380 mm/min
电机功率	Leistung Vorschubmotor	370 W	1,1 kW
Z轴	Z-axis		
自动行程	Travel automatic	380 mm	400 mm
工作台自动进给	Table feed automatic	/	7 - 127 mm/min
电机功率	Motor	750 W	1.1 kW
冷却泵功率	Motor pump	40 W	90 W
尺寸	Dimensions		
长x宽x高	Length x Width x Height	2500x2300x1850 mm	3340x2200x1920 mm
总重量	Total weight	1300 kg	2220 kg

细节展示 Details



卧铣位置

- 加装卧铣挂架, 可夹持侧面铣刀

Horizontal milling position

- For operations in horizontal milling position with counter support and support for side milling cutters, adjustable slide bearing



工作台走刀器

- 电机带X和Y轴工作台齿轮式进刀

Table feed

- Motor with gear table feed X- and Y-axis



水平工作台罩壳

Housing cross table

TURRET MILLING MACHINE

炮塔铣床 MT 150



优质、高效、高性价比

- X、Y、Z三轴伺服进给，无级变速
- 主传动采用齿轮传动，效率高、传扭大，主传动
变速范围大，选择面广
- 新式操作面板，集中式操作站设计，操作更直
观、方便
- 同时具备立铣、卧铣功能
- 三轴坐标数显系统
- 优质基础铸件、导轨淬火处理

Convincing arguments: quality, efficiency and price

- X/Y/Z three-axis servo drive and variable speed
- Main drive use gear transmission which has higher efficiency and bigger torque. Main drive has bigger speed range and more wide choice
- New-style control panel, concentrated operation station which is more directly and more easy for operation
- With both vertical and horizontal milling function
- With three-axis coordinate digital display system
- High-quality foundation casting and hardened guide-way



机床技术参数 /Specification

型号	Type	MT 150
产品编号	Code No.	2315000
工作台尺寸	working table size	1320×320 mm
工作台行程 (纵向/横向/垂向)	travel of working table (X/Y/Z)	800/290/400mm
工作台T槽 (槽数/宽度/间距)	T-SLOT size of working table	3/14/95 mm
主轴锥孔	spindle seat(V/H)	7:24 ISO40
主轴转速范围 (50Hz)	spindle speeds 50Hz	Horizontal spindle: 12 steps 38—1310 r.p.m. Vertical spindle: 8 steps 115—1750 r.p.m.
卧轴中心至工作台面的距离	distance from center of H spindle to working table	40—440 mm
立轴端面至工作台面的距离	distance from center of V spindle to working table	170--590 mm
工作台中心至立柱表面的距离	distance from working table to surfact of column	240--740 mm
滑枕行程	ram travle	500 mm
工作台进给速度	feed speed of working table	X/Y: 25 800 mm/min Z 8-267 mm/min
卧式主轴电机	Horizontal spindle motor	2.2KW
垂直主轴电机	Vertical spindle motor	0.85/1.5KW
工作台进给伺服电机	Table feed servo motor	1.8KW 11.5N.M
外形尺寸	dimension	1950×1950×2350 mm
净重	N.W.	2100 kg

MT150 多功能摇臂铣床是我公司针对国内外市场开发的新型机床产品，主要适用于加工于各种中、小型零件的平面、斜面、沟槽、孔、齿轮等，是机械制造、仪器仪表工业、模具、汽车、纺织机械、化工、石油、电子等行业理想的加工设备。

MT150 universal radial milling machine is our new-type machine aim to domestic and foreign market. It is mainly applicable to machining the surface, slope, groove, hole, gear etc in various middle & small size components, which is ideal processing equipment for the industry of machine manufacturing, instrument & meter, mould, automobile, textile machinery, chemical industry, petroleum and electronics.

UNIVERSAL MILLING MACHINE

万能铣床 MT130S



MT130S

机床技术参数 /Specification

型号	Type	MT 130S
产品编号	Code No.	2213000
插头电源	Electrical connection	400V/50HZ/3PH
电机功率	Motor power horizontal	3KW
电机功率	Motor power vertical	3KW
冷却泵电机	Motor coolant pump	60W
铣刀最大尺寸	Milling head dimension max.	Ø 100
立铣刀最大尺寸	End mill dimension max.	Ø 100
主轴类型	Spindle seat	7:24 ISO40
主轴中心至立柱表面距离	Throat	150-550mm
拉杆	Draw-in rod	M16
主轴转速横向	Spindle speed horizontal	45-1660rpm
齿轮级数	Gear stages/Steps horizontal	11
主轴转速纵向	Spindle speed vertical	45-1660rpm
齿轮级数	Gear stages/Steps vertical	11
主轴箱倾斜角度	Inclination of spindle head	360°
工作台长×宽	Table length x table width	1270×300mm
工作台最大承重	Load of cross table (max.)	200kg
T型槽尺寸/距离	T-slot size /distance	3/14/80
主轴到工作台距离 纵向	Distance spindle - cross table vertical	100-500mm
电机功率	Power Feed drive	3kw
X轴行程	Travel X axis	720mm
Y轴行程	Travel Y axis	300mm
Z轴行程	Travel Z axis	400mm
驱动快速进给	Drive speed feed/rapid motion	1335/1335/1000mm/min
进给速度	Feed speed	XY:30-830mm/min、Z: 23-625mm/min
长×宽×高	Length x width x height	1730×1760×1700mm
净重/毛重	N.W./G.W.	1450/1600 kg

UNIVERSAL MILLING MACHINE

万能铣床 MT220S

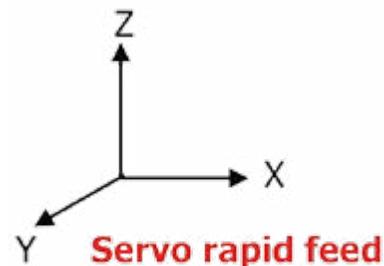
NEW

控制面板

- 集成控制面板
 - 带位置显示
 - 面板可自转
- Operating panel
- Integrated control panel
 - Integrated position dispaly
 - Turnable around the own axis

铣头

- 两个旋转轴
 - 带刻度尺
- Milling head
- Two rotation axes
 - With scales



工作台

- 高强度
 - 高精度
 - 大尺寸
 - 表面精加工
- Cross table
- Solid
 - Precise
 - Largely dimensioned
 - Precisely machined at the surface

MT220S

机床技术参数 /Specification

型号	Type	MT 220S
产品编号	Code No.	2222080
卧轴主电机	main motor of V spindle	5.5 KW 1440r/min
万能回转头主电机	main motor of universal swiveling head	4KW
工作台进给伺服电机	motor of working table feed	1.8KW 11.5N.M
冷却泵电机功率	Motor coolant pump	0.09 KW
面铣最大直径	Milling capacity cutter head(max.)	Ø160mm
立铣最大直径	Milling capacity end mill cutter(max.)	Ø25mm
工作台最大承重	Load of cross table(max.)	400 kg
工作台尺寸	working table size	1650×360 mm
工作台行程 (纵向/横向/垂向)	travel of working table (X/Y/Z)	1300/320/420mm
工作台T槽 (槽数/宽度/间距)	T-SLOT size of working table	3/14 mm /95 mm
主轴锥孔	spindle seat(V/H)	7:24 ISO50
主轴转速范围 (50Hz)	spindle speeds 50Hz	V spindle: 12 step 58—1800 r.p.m. H spindle: 12 step 60—1750 r.p.m.
卧轴中心至工作台面的距离	distance from center of H spindle to working table	0—420 mm
立轴端面至工作台面的距离	distance from center of V spindle to working table	170--590 mm
工作台中心至立柱表面的距离	distance from working table to surfact of column	230--550 mm
工作台最大回转角度	swivel range of working table	±35°
滑枕行程	ram travle	500 mm
工作台进给速度	feed speed of working table	X/Y: 25-800 mm/min Z 8-267 mm/min rapid: X/Y 1200mm/min Z 400mm/min
外形尺寸	dimension	2550×2160×2100 mm
净重	N.W.	2850 kg
毛重	G.W.	3150 kg

UNIVERSAL MILLING MACHINE

万能铣床 MT230S



MT230S

机床技术参数 /Specification

型号	Type	MT 230S
产品编号	Code No.	2223000
插头电源	Electrical connection	380V 50HZ 3Phase
电机功率	Motor power horizontal	5.5kw
电机功率	Motor power vertical	4kw
冷却泵电机	Motor coolant pump	90w
铣刀最大尺寸	Milling head dimension max.	Ø 160
主轴类型	Spindle seat	7:24 ISO50
主轴中心至立柱表面距离	Throat	260-910mm
拉杆	Draw-in rod	M24
主轴转速横向	Spindle speed horizontal	60-1800 rpm
齿轮级数	Gear stages/Steps horizontal	12
主轴转速纵向	Spindle speed vertical	60-1750 rpm
齿轮级数	Gear stages/Steps vertical	12
主轴箱倾斜角度	Inclination of spindle head	360°
工作台长×宽	Table length x table width	1600×360mm
工作台最大承重	Load of cross table (max.)	400kg
T型槽尺寸/距离	T-slot size /distance	3/18/80
主轴到工作台距离 横向	Distance spindle - cross table horizontal	20-420mm
主轴到工作台距离 纵向	Distance spindle - cross table vertical	100-500mm
电机功率	Power Feed drive	10Nm
X轴行程	Travel X axis	1300mm
Y轴行程	Travel Y axis	300mm
Z轴行程	Travel Z axis	400mm
驱动快速进给	Drive speed feed/rapid motion	X 1200mm/min Y 800mm/min Z 600mm/min
进给速度	Feed speed	30-750/20-500/15-375mm/min
长×宽×高	Length x width x height	2520×2100×2000mm
净重/毛重	N.W./G.W.	2800/2900 kg

TURRET MILLING MACHINE

炮塔铣床 TMM100/TMM100V

优质、高效、高性价比

- 厚重结实的高级米哈奈特铸铁制造
- 结实的 Z 轴矩形导轨
- 所有轴均带有可调燕尾导轨
- 左右回转
- 锥形滚珠轴承产生的高同心度，主轴套筒内测得的数据为小于 0.01mm
- 主轴自动进刀
- 带有电机保护的主开关，正反转开关，急停按钮
- 高性价比、性能稳定

标准附件：

- 优质铣头（独特设计）
- 使用西门子元器件的电气箱
- 油盘
- 所有床身导轨均带防护罩
- 操作控制面板
- 手动润滑油泵
- 工具与工具盒
- 刀具拉杆

Standard Accessories:

- High quality Milling head(made in Taiwan)
- With Siemens electrical parts in electrical box
- With chip tray
- ALL the bedway with splash guard
- With operation control box
- With manual lubrication oil pump
- With tools and tool box
- With draw bar

Convincing arguments: quality, efficiency and price

- Heavy,solid model made of high-grade Meehanite casting
- Solid rectangular slideways for Z-axis
- All axes with adjustable dovetail slideways
- Right-/left handed rotation
- High concentricity precision due to taper roller bearings, less than 0.01mm measured in the spindle sleeve
- Automatic spindle sleeve feed
- Main switch with motor protection, right/left handed rotation switch, emergency-stop button
- Price-efficient and value stable

可选附件：

- X/Y/Z 轴自动进给器
- 三轴数显装置
- 气动拉杆
- 机用平口钳 QG100
- 58 件套铣夹具 (M14)
- 套装铣夹头 J7325 (8 件 / 套)
规格 4-16mm
- 套装铣夹头 J7325 (15 件 / 套)
规格 3-26mm
- 冷却系统
- 石英灯 JC34A

Optional accessories:

- X/Y/Z-axis power feeder
- Digital Readout for X/Y/Z
- Air power draw bar
- Milling Vice QG100
- 58pcs Clamping Fixture(M14)
- Milling Chuck Set J7325
(8 pcs/set) size 4-16mm
- Milling Chuck Set J7325
(15 pcs/set) size 3-26mm
- Coolant system
- Halogen lamp JC34A

主轴自动进刀铣头
. Milling head is with spindle power down feed

大功率电机
. Strong power motor

高强度、高精度、大尺寸的
十字工作台
. Solid, precise,
largelydimensioned and
preciselymachined surface

冷却系统和油盘 (可选)
. Coolant pump and oil chip tray(Optional)

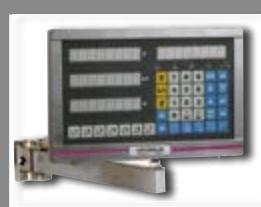


TMM 100

机床技术参数 /Specification

型号	Model	TMM100/TMM100V
产品编号	Code No.	2310000 / 2310100
加工范围	CAPACITY	
钻孔直径	Drilling capacity(max.)	Ø15mm
面铣直径	Milling capacity cutter head(max.)	Ø75mm
立铣直径	Milling capacity end mill cutter(max.)	Ø20mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle taper	R8/ NT40
套筒直径	Sleeve diameter	Ø86mm
套筒行程	Sleeve travel	127mm
钻铣头	DRILL-MILL HEAD	
机头倾斜功能(左及右)	Head incline(L-R)	± 90°
机头倾斜功能(前及后)	Head lincline(back-forth)	0°
主轴套筒自动进给	Automatic spindle sleeve feed	0.04/0.08/0.15mm/rev
速度	SPEEDS	
主轴转速	Spindle speed	65-4550 rpm /50-3500rpm(V)
十字工作台	CROSS TABLE	
工作台(长×宽)	Table(LxW)	200x910mm
X轴自动行程	X-axis travel automatic	560mm
Y轴手动行程	Y-axis travel manual	240mm
Z轴行程	Z-axis travel	350mm
T型槽尺寸宽度/距离/数量	T-slot size/distance/number	16mm / 64mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	370mm
主轴轴线至机身最大距离	Distance spindle to machine body(Max.)	400mm
主轴轴线至机身最小距离	Distance spindle to machine body(Min.)	134mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	2.2KW/3Ph/50Hz
冷却泵电机功率	Motor coolant pump	40W
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸(长×宽×高)	size(LxWxH)	1040x1300x1950mm
净重/毛重	Net weight/Gross weight	785/895kg

细节展示 Details



- 数显 (可选)
Digital readout(optional)



- 台湾产铣头带主轴自动进给器
Taiwan mill head with spindle power down feeder



- 西门子电子元器件
Siemens electric cabinet



- 强力十字工作台，刚性好
Solid cross table with good rigidity

TURRET MILLING MACHINE

炮塔铣床 TMM200(V)/TMM400(V)

优质、高效、高性价比

- . 厚重结实的高级米哈奈特铸铁制造
- . 结实的 Z 轴矩形导轨
- . 所有轴均带有可调燕尾导轨
- . 左右回转
- . 锥形滚珠轴承产生的高同心度，主轴套筒内测得的数据为小于 0.01mm
- . 主轴自动进刀
- . 带有电机保护的主开关，正反转开关，急停按钮
- . 高性价比、性能稳定

Convincing arguments: quality, efficiency and price

- . Heavy,solid model made of high-grade Meehanite casting
- . Solid rectangular slideways for Z-axis
- . All axes with adjustable dovetail slideways
- . Right-/left handed rotation
- . High concentricity precision due to taper roller bearings, less than 0.01mm measured in the spindle sleeve
- . Automatic spindle sleeve feed
- . Main switch with motor protection, right/left handed rotation switch, emergency-stop button
- . Price-efficient and value stable



机床技术参数 /Specification

型号	Model	TMM200 / TMM200V	TMM400/ TMM400V
产品编号	Code No.	2320000 / 2320100	2340000 / 2340100
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø18mm	Ø24mm
面铣直径	Milling capacity cutter head(max.)	Ø75mm	Ø100mm
立铣直径	Milling capacity end mill cutter(max.)	Ø20mm/Ø25mm(V)	Ø20mm/Ø25mm(V)
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle taper	R8/NT40	R8/NT40
套筒直径	Sleeve diameter	Ø86mm	Ø86mm
套筒行程	Sleeve travel	127mm	127mm
钻铣头	DRILL-MILL HEAD		
机头倾斜功能(左及右)	Head incline(L-R)	±90°	±90°
机头倾斜功能(前及后)	Head lincline(back-forth)	±45°	±45°
主轴套筒自动进给	Automatic spindle sleeve feed	0.04/0.08/0.15mm/rev	0.04/0.08/0.15mm/rev
速度	SPEEDS		
主轴转速	Spindle speed	65-4550 rpm / 65-4500rpm(V)	80-5440 rpm / 65-4500rpm(V)
十字工作台	CROSS TABLE		
工作台 (长×宽)	Tabel(LxW)	230x1245mm/ 230x1246mm(V)	254x1270mm/ 254x1370mm(V)
X轴手动行程	X-axis travel automatic	730mm/690mm(V)	700mm/820mm(V)
Y轴手动行程	Y-axis travel automatic	315mm/310mm(V) 405mm/390mm(V) (自动automatic)	380mm/410mm(V) 385mm/400mm(V) (手动manual)
Z轴行程	Z-axis travel	16mm/64mm/3 16mm/63mm/3(V)	16mm/64mm/3 16mm/63mm/3(V)
T型槽尺寸宽度/距离/数量	T-slot size/distance/number		
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	450mm/405mm(V)	465mm/405mm(V)
主轴轴线至机身最大距离	Distance spindle to machine body(Max.)	440mm	620mm
主轴轴线至机身最小距离	Distance spindle to machine body(Min.)	213mm	260mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	2.2KW/3Ph/50Hz/380V 2.2KW/3Ph/50Hz/400V(V)	2.2KW/3Ph/50Hz 2.2KW/3Ph/50Hz/400V(V)
冷却泵电机功率	Motor coolant pump	40W/90W(V)	40W/90W(V)
外形尺寸及重量	DIMENSIONS AND WEIGHT		
外形尺寸 (长×宽×高)	size(L×W×H)	1460x1600x2032mm/ 1650x1700x2010mm(V) 1000/1150kg	1600x1700x2100mm/ 1905x1880x2235mm(V) 1310/1490kg
净重/毛重	Net weight/Gross weight	1000/1100kg(V)	1200/1300kg(V)

标准附件 :

- . 优质铣头
- . 使用西门子元器件的电气箱
- . 油盘
- . 所有床身导轨均带防护罩
- . 操作控制面板
- . 手动润滑油泵
- . 工具与工具盒
- . 刀具拉杆
- . X 轴自动进给器

Standard accessories:

- . High quality Milling head(made in Taiwan)
- . With Siemens electrical parts in electrical box
- . With chip tray
- . ALL the bedway with splash guard
- . With operation control box
- . With manual lubrication oil pump
- . With tools and tool box
- . With draw bar
- . X-axis power feed(made in Taiwan)

可选附件 :

- . Y/Z 轴自动进给器
- . 三轴数显装置
- . 气动拉杆
- . 机用平口钳 QG100
- . 58 件套铣夹具 (M14)
- . 套装铣夹头 J7325 (8 件 / 套)
- . 套装铣夹头 J7325 (15 件 / 套)
- . 石英灯
- . Y/Z-axis power feeder
- . Digital Readout forX/Y/Z
- . Air power draw bar
- . Milling Vice QG100
- . 58pcs Clamping Fixture(M14)
- . Milling Chuck Set J7325(8 pcs/set)
- . Milling Chuck Set J7325(15 pcs/set)
- . Halogen lamp

Optional accessories:

TURRET MILLING MACHINE

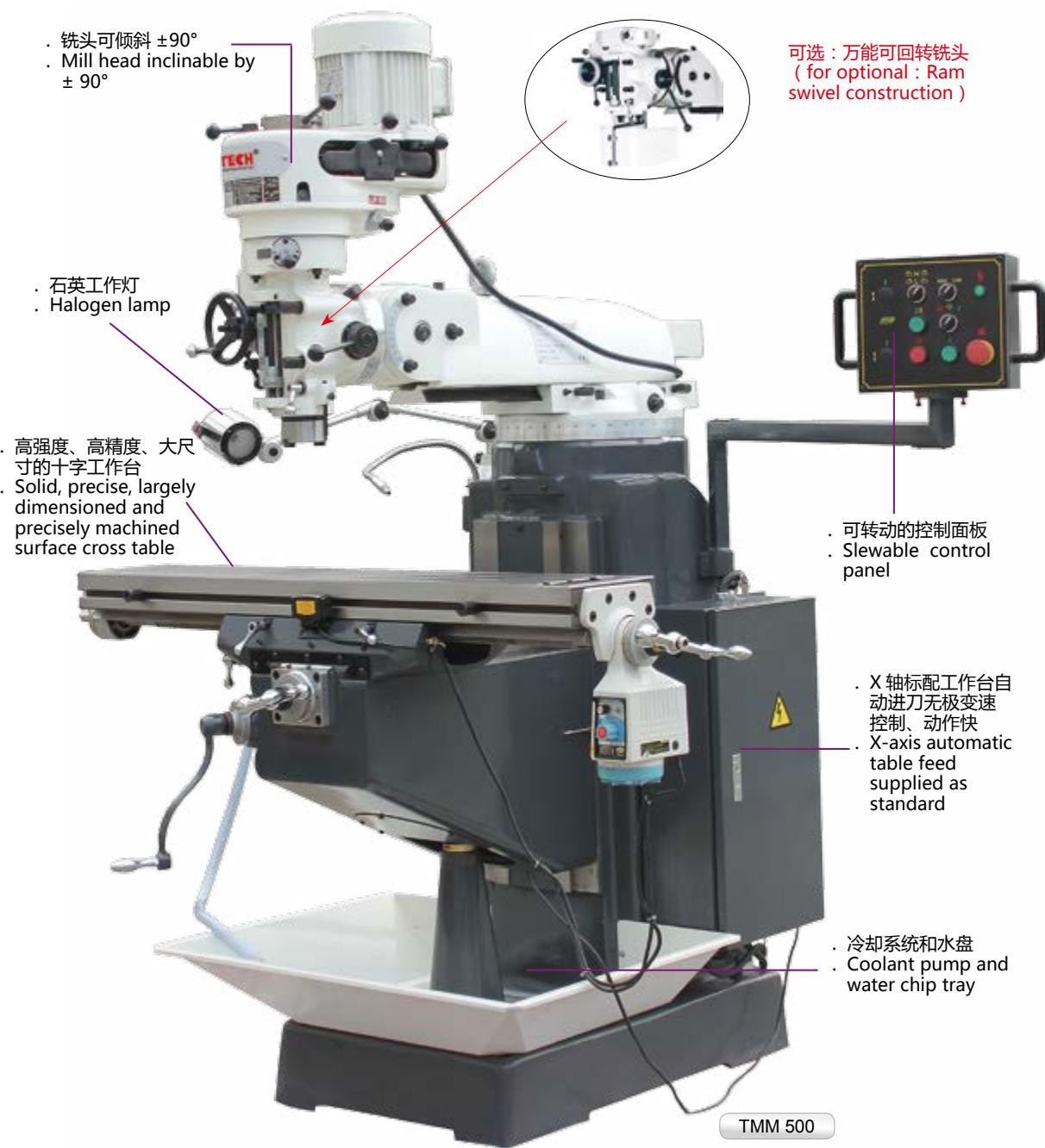
炮塔铣床 TMM500/TMM500V

优质、高效、高性价比

- . 厚重结实的高级米哈奈特铸铁制造
- . 结实的 Z 轴矩形导轨
- . 所有轴均带有可调燕尾导轨
- . 左右回转
- . 锥形滚珠轴承产生的高同心度，主轴套筒内测得的数据为小于 0.01mm
- . 主轴自动进刀
- . 带有电机保护的主开关，正反转开关，急停按钮
- . 高性价比、性能稳定

Convincing arguments: quality, efficiency and price

- . Heavy,solid model made of high-grade Meehanite casting
- . Solid rectangular slideways for Z-axis
- . All axes with adjustable dovetail slideways
- . Right-/left handed rotation
- . High concentricity precision due to taper roller bearings, less than 0.01mm measured in the spindle sleeve
- . Automatic spindle sleeve feed
- . Main switch with motor protection, right/left handed rotation switch, emergency-stop button
- . Price-efficient and value stable



机床技术参数 /Specification

型号	Model	TMM500/TMM500V
产品编号	Code No.	2350000 / 2350100
加工范围	CAPACITY	
钻孔直径	Drilling capacity(max.)	Ø24mm
面铣直径	Milling capacity cutter head(max.)	Ø100mm
立铣直径	Milling capacity end mill cutter(max.)	Ø20mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle taper	NT40
套筒直径	Sleeve diameter	Ø105mm
套筒行程	Sleeve travel	127mm
钻铣头	DRILL-MILL HEAD	
机头倾斜功能(左及右)	Head incline(L-R)	± 90°
机头倾斜功能(前及后)	Head lincline(back-forth)	0°
主轴套筒自动进给	Automatic spindle sleeve feed	0.04/0.08/0.15mm/rev
速度	SPEEDS	
主轴转速	Spindle speed	70-3600 rpm/50-3000(V) rpm
十字工作台	CROSS TABLE	
工作台 (长×宽)	Tabel(LxW)	250x1270mm <i>/305x1370mm(for optional)</i>
X轴自动行程	X-axis travel automatic	700mm
Y轴手动行程	Y-axis travel manual	400mm
Z轴行程	Z-axis travel	420mm
T型槽尺寸宽度/距离/数量	T-slot size/distance/number	16mm / 64mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	500mm
主轴轴线至机身最大距离	Distance spindle to machine body(Max.)	645mm
主轴轴线至机身最小距离	Distance spindle to machine body(Min.)	130mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	3.75KW/3Ph/50Hz/380V
冷却泵电机功率	Motor coolant pump	40W
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸 (长×宽×高)	size(L×W×H)	1660x1950x2100mm
净重/毛重	Net weight/Gross weight	1650/1850kg

标准附件 :

- . 优质铣头 (台湾造)
- . 油盘
- . 所有床身导轨均带防护罩
- . 操作控制面板
- . 手动润滑油泵
- . 工具与工具盒
- . 刀具拉杆
- . X 轴自动进给器
- . Z 轴电动升降
- . 冷却泵
- . 石英灯

Standard accessories:

- . High quality Milling head
- . With Siemens electrical parts in electrical box
- . With chip tray
- . ALL the bedway with splash guard
- . With operation control box
- . With manual lubrication oil pump
- . With tools and tool box
- . With draw bar
- . X-axis power feeder (made in Taiwan)
- . Z-axis power feeder
- . Coolant system
- . Halogen lamp

可选附件 :

- . Y 轴自动进给器
- . 三轴数显装置
- . 气动拉杆
- . 机用平口钳 QG100
- . 58 件套铣夹具 (M14x2)
- . 套装铣夹头 J7325 (8 件 / 套)
- . 套装铣夹头 J7325 (15 件 / 套)
- . Optional accessories:
- . Y-axis power feeder
- . Digital Readout forX/Y/Z
- . Air power draw bar
- . Milling Vice QG100
- . 58pcs Clamping Fixture(M14x2)
- . Milling Chuck Set J7325(8 pcs/set)
- . Milling Chuck Set J7325(15 pcs/set)

TURRET MILLING MACHINE(VERTICAL & HORIZONTAL)

立卧两用炮塔铣床 TMM700/700V TMM800/800V

优质、高效、高性价比

- 厚重结实的高级米哈奈特铸铁制造
- 结实的 Z 轴矩形导轨
- 所有轴均带有可调燕尾导轨
- 左右回转
- 锥形滚珠轴承产生的高同心度，主轴套筒内测得的数据为小于 0.01mm
- 主轴自动进刀
- 带有电机保护的主开关，正反转开关，急停按钮
- 高性价比、性能稳定

Convincing arguments: quality, efficiency and price

- Heavy, solid model made of high-grade Meehanite casting
- Solid rectangular slideways for Z-axis
- All axes with adjustable dovetail slideways
- Right-/left handed rotation
- High concentricity precision due to taper roller bearings, less than 0.01mm measured in the spindle sleeve
- Automatic spindle sleeve feed
- Main switch with motor protection, right/left handed rotation switch, emergency-stop button
- Price-efficient and value stable

- 大功率强力铣头
- Strong power milling head with spindle power down feed



- 卧铣
- with horizontal milling

TMM700

细节展示 Details



- 电气箱采用西门子元器件
- Electrical cabinet with Siemens parts



- 电气控制面板
- Electrical control panel



- Z轴自动走刀
- Z axis power feed



- X/Y齿轮式工作台自动走刀
- X/Y axis table power feed

机床技术参数 /Specification

型号	Model	TMM700 / TMM700V	TMM800/TMM800V
产品编号	Code No.	2370000 / 2370100	2380000 / 2380100
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø30	Ø30
面铣直径	Milling capacity cutter head(max.)	Ø80	Ø125
立铣直径	Milling capacity end mill cutter(max.)	Ø25	Ø25
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle taper	ISO40(V&H)	ISO40(V),ISO50(H)
套筒直径	Sleeve diameter	Ø105	Ø110
套筒行程	Sleeve travel	127mm	140mm
钻铣头	DRILL-MILL HEAD		
机头倾斜功能(左及右)	Head incline(L-R)	±45°	±45°
机头倾斜功能(前及后)	Head lincline(back-forth)	0°	0°
主轴套筒自动进给	Automatic spindle sleeve feed	0.04-0.08-0.15rev/mm	0.04-0.08-0.15rev/mm
速度	SPEEDS		
主轴转速	Spindle speed	70-3620rpm(V), 60-1350rpm(H)	70-3620rpm(V), 60-1800rpm(H)
十字工作台	CROSS TABLE		
工作台 (长×宽)	Tabel(LxW)	1270x320mm	1320x360mm
X轴自动行程	X-axis travel automatic	780mm	980mm
Y轴手动行程	Y-axis travel manual	300mm	300mm
Z轴行程	Z-axis travel	380mm	450mm
T型槽尺寸宽度/距离/数量	T-slot size/distance/number	14mm / 70mm / 5	18mm / 80mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	500mm	650mm
主轴轴线至机身最大距离	Distance spindle to machine body(Max.)	550mm	550mm
主轴轴线至机身最小距离	Distance spindle to machine body(Min.)	150mm	150mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	3.7KW(V)/2.2KW(H)	5.5KW(V)/4KW(H)
冷却泵电机功率	Motor coolant pump	40W	90W
外形尺寸及重量	DIMENSIONS AND WEIGHT		
外形尺寸 (长×宽×高)	size(L×W×H)	1720x1520x2270mm	2070x2020x2330mm
包装尺寸 (长×宽×高)	packing size(L×W×H)	1620x1620x2250mm	1930x1850x2250mm
净重/毛重	Net weight/Gross weight	1770/1972kg	2250/2400kg

标准附件 :

- 优质铣头
- 油盘
- 所有床身导轨均带防护罩
- 操作控制面板
- 手动润滑油泵
- 工具与工具盒
- 刀具拉杆
- X 轴自动进给
- Z 轴自动进给
- 冷却泵
- 石英灯

Standard accessories:

- High quality Milling head
- With Siemens electrical parts in electrical box
- With chip tray
- ALL the bedway with splash guard
- With operation control box
- With manual lubrication oil pump
- With tools and tool box
- With draw bar
- X-axis power feeder
- Z-axis power feeder
- Coolant system
- Halogen lamp

可选附件

- 三轴数显装置
- 气动拉杆
- 机用平口钳 QG150/QG200
- 58 件套铣夹具 (M12/M16)
- 套装铣头 J7325-ISO40 (8 件 / 套)
- 套装铣头 J7325-ISO40 (15 件 / 套)

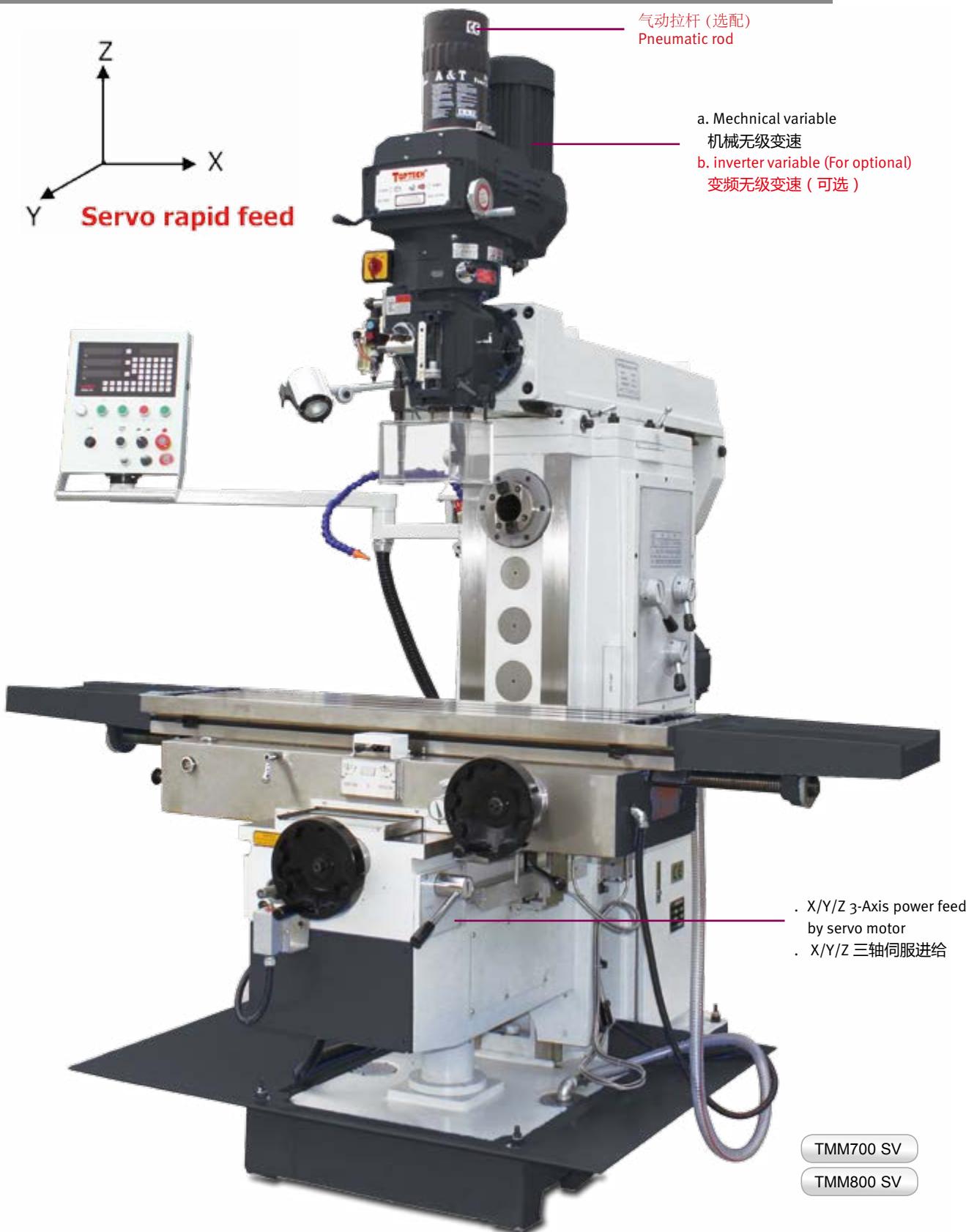
Optional accessories:

- Digital Readout forX/Y/Z
- Air power draw bar
- Milling Vice QG150/QG200
- 58pcs Clamping Fixture(M12/M16)
- Milling Chuck Set J7325-ISO40(8 pcs/set)
- Milling Chuck Set J7325-ISO40(15 pcs/set)

MILLING MACHINE

铣床 TMM700 SV 系列机器 (工作台宽度320mm)

TMM800 SV 系列机器 (工作台宽度360mm)



机床技术参数 /Specification

型号	Model	TMM700 SV TMM800 SV
产品编号	Code No.	2370200 2380200
工作台面尺寸	Table size	1600×320mm 1600x360mm
工作台行程(X, Y, Z)	Table travel (X, Y, Z)	1300/310(DRO:290)/450mm
工作台进给速度(X, Y, Z)	Table feed. (X, Y, Z)	30~750、20~500、 15~375mm/min
主轴轴孔锥度	Spindle taper	7 : 24 ISO50 (H) 7 : 24 ISO40 (V)
主轴行程	Spindle travel	5hp有段、5hp无段、7.5hp无段 : 127 (V) mm 7.5hp有段铣头 : 150 (V) mm
主轴端面至工作台距离	Distance between spindle nose and table surface	200~650mm
卧轴端面至工作台距离	Distance between horizontal nose and table surface	10~460mm
主轴孔中心至悬梁距离	Distance between spindle axis and ram surface	245mm
主轴转速范围	Spindle speed range	12 级 60 ~ 1800 rpm (H) 标配: 5hp有段铣头 80-5440(16) 选配: 5hp无段铣头 50-3750(16) 选配: 7.5hp有段铣头 70-3600(20) 选配: 7.5hp无段铣头 50-3750(20)
T型槽槽数、槽宽、槽距	T-slots(NO:/width/pitch)	3/18mm/70mm 3/18mm/80mm
悬梁行程	Arm travel	550mm
主传动电机功率	Main motor power	5.5 (H) KW 标配: 3.75 (V) KW 选配: 5.5 (V) KW
三相进给交流伺服电机扭矩	3PH to feed Ac servo motor torque	10NM
外形尺寸	Overall size	2500×2100×2350mm
净重	Net weight	2450/2500kg

标准附件 :

- 7 : 24 中间套 ISO50/MS4
- 卧铣刀杆组件 Φ27
- 卧铣刀杆组件 Φ32
- 拉杆 M24
- 双头呆扳手 S21-24

- 双头呆扳手 S27-30
- 内六角扳手 5
- 内六角扳手 10
- QB13 平口钳 160
- 螺母 M24
- 垫圈

可选附件 :

- 15 件套铣夹头 ISO50
- 58 件套组合压板
- 分度头 F11125A
- 三轴数显表
- 调整垫铁 (每台机器配置四个)
- 100mm 刀盘
- 自动润滑泵

Standard Accessories:

- 7 : 24 middle set ISO50/MS4
- Horizontal arbor assembly Φ27
- Horizontal arbor assembly Φ32
- Drawbar M24
- Double-ended wrench S21-24

- Double-ended wrench S27-30
- Inner hexagonal wrench 5
- Inner hexagonal wrench 10
- Q13 Series Machine vice 160
- sleeve
- Washer

Optional Accessories:

- 15 pcs of milling chuck set ISO50
- 58 pcs of combination plate
- Dividing head F11125A
- Digital readout for X/Y/Z axis
- Adjusting size-block (4 pcs on each unit)
- 100mm cutter
- Automatic lubricant pump

UNIVERSAL MILLING MACHINE

万能工具铣床 MXI



优质、高效、高性价比

- 应用范围广
- 前面铣和平面铣
- 平面铣和套式端面铣削
- 按注释方法加工齿轮
- 带 T型槽和铣槽
- 所有导轨经淬火
- 较高切削能力
- 所有轴限位可调

Convincing arguments: quality, efficiency and price

- Versatile applications
- Front milling and surface milling
- Plane milling and shell end milling
- Gear machining in the indexing method
- T-groove and slot milling
- All guideways hardened
- Very high cutting capacity
- Adjustable stops on all axes

倾斜

- 铣头可以倾斜 ±30°

Inclination

- Milling head can be inclined in both directions by 30°

控制面板

- 可回转的和大尺寸
- 转动方向选择开关
- 电位计的速度设定
- 速度数字显示
- 急停按钮

Control panel

- Slewable and largely dimensioned
- Rotational direction switch with position off
- Potentiometer for speed setting
- Digital speed display
- Emergency-stop pushbutton

十字工作台

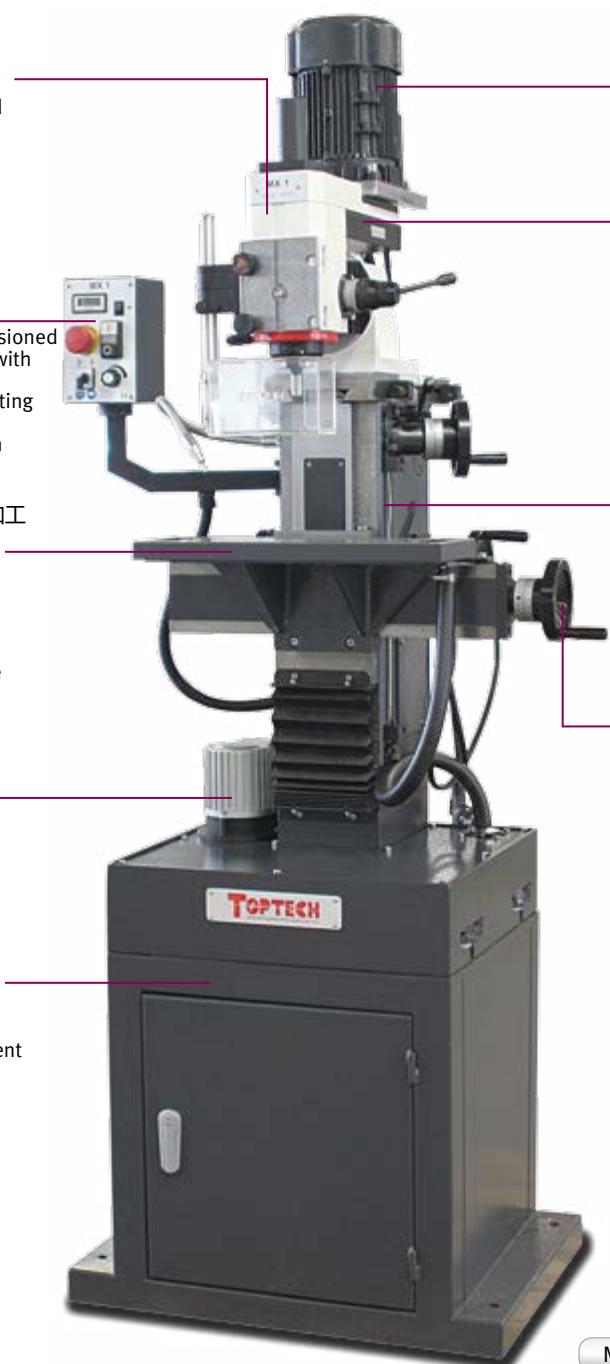
- 高强度 , 高精度 , 表面精加工
- 带 T型槽
- 标准的立式和卧式工作台

Cross table

- Solid, exact and precisely machined surface
- With T-slots
- Vertical and horizontal table as standard

冷却装置

Coolant equipment



主轴转速

- 无级变速控制, 采用 100-3750rpm 转速的变频工业电机

Spindle speeds

- Infinitely variable speed control with frequency-controlled industrial motor 100 - 3750 rpm



该机器也可以用于卧铣加工
This machine can also use for horizontal working

燕尾导轨

- 坚固耐用 , 精度高
- 间隙可重调

Dovetail guideway

- Solid and precise
- Readjustable clearance

刻度圈

- 清晰可读
- 所有运动方向手轮上都带刻度圈

Measuring tape and scalings

- Clearly readable
- On all handwheels and in all directions of motion



工作台防护罩
Table housing

机床技术参数 /Specification

型号	Model	MX 1
货号	Item no.	2401000
电器总功率	Electrical connection	
总电压	Total connection Motor	1.1 kW 230 V ~50 Hz
主轴	Spindle taper	
主轴锥度	Spindle taper	ISO 40
钻孔能力	Drilling capacity in steel (S235JR)	Ø 25 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 20 mm
最大面铣直径	Milling head diameter max.	Ø 76 mm
最大立铣直径	End mill cutter diameter max.	Ø 20 mm
主轴行程	Spindle stroke	53 mm
攻丝	Draw-in rod	M12
钻铣头	Drill-milling head	
主轴箱旋转角度	Swivel range	± 30°
Z轴行程	Travel Z axis	310 mm
卧铣刀杆支架	Steady for horizontal milling	Ø 22, groove 6 x 2.5 mm
转速级数	Gear stages Vario	3 steps, speed variable
主轴低转速	Spindle speed low	100 - 1250 rpm
主轴平均转速	Spindle speed average	200 - 2500 rpm
主轴高转速	Spindle speed fast	300 - 3750 rpm
十字工作台	Cross table	
工作台尺寸(立铣)	Table length x table width - vertical	430 x 150 mm
主轴端面到工作台面距离(立铣)	Vertical displacement area min.	240 mm
工作台尺寸(卧铣)	Table length x Table width - horizontal	485 x 150 mm
主轴端面到工作台面距离(卧铣)	Horizontal displacement area	330 mm
X轴行程	Travel X-axis	290 mm
Y轴行程	Travel Y-axis	175 mm
T槽尺寸/距离	T-slot size / Distance	12 mm / 45 mm
尺寸	Dimensions	
长x宽x高	Length x Width x Height	750 x 620 x 1790 mm
净重	NW	270 kg

标准附件 :

- 接杆
- 内六角圆柱头螺钉 M8×30
- 挂脚
- V 带
- 支架
- 锥度刀杆
- 双头呆扳手 22-24
- 连接片
- 内六角扳手 3-8
- 压板

Standard Accessories :

- Connective rod
- Hex cylinder head screw M8×30
- Hang a foot
- V belt
- Stents
- Oil can
- Taper cutter bar
- Double-ended wrench 22-24
- Connection piece
- Inner hexagonal wrench 3-8
- Clamp

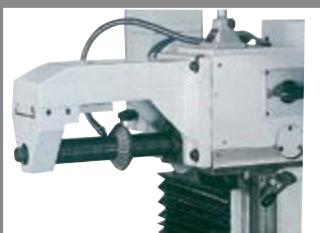
细节展示 Details

卧铣位置

- 当用侧铣刀工作时 (尤其主轴中心离立柱表面最大距离)
- 包含侧铣刀稳定座和拉杆
- 铣头直接装在中拖板上

Horizontal position

- When working with side milling cutters in particular at large throat
- Including steady and shaft for side milling cutters
- The milling head is directly mounted on the cross slide



立铣位置

- 用于钻孔、斜钻孔及大部分铣削工作
- 铣头通过转盘和支架装在中拖板上

Vertical position

- For works such as e.g. drilling, inclined drilling and for most milling tasks
- The milling unit is mounted on a cross slide by means of a turntable and a bracket



UNIVERSAL MILLING MACHINE

万能工具铣床 MX2/MX3

优质、高效、高性价比

- 应用范围广
- 三轴主轴带快速自动走刀
- 精加工工作台，水平和垂直位置带T型槽
- 盘式铣刀带刀杆支架和轴
- 变速开关元件操作简单
- 机床结构结实
- 厚重结实的高品质铸铁强筋设计制造
- 所有燕尾导轨经淬火和精加工处理
- 集中润滑
- 大口径手轮带刻度尺
- 标准工作灯
- 带标准冷却装置
- 导轨经淬火处理
- 带数显DPA2000和光栅尺
- 油盘
- 主轴头可旋转正负90度

Convincing arguments: quality, efficiency and price

- Wide range of applications
- Robust machine construction
- Heavy, solid design of high quality cast Meehanite
- All guides and hardened by V-ledge
- Central lubrication
- Simple operation of the switching ele-
- Slewing digital position display DPA 2000 precise travel measurement of an integrated control unit
- Attached glass scales - 5 microns accuracy
- Dovetail with adjustable dovetail
- Main switch and motor protection switch, right-left rotation, emergency stop switch
- Large diameter handwheel with scale
- Standard machine Lamp
- Standard coolant equipment
- ments for the speed change guides in all 3 Axis
- Extremely quiet operation due to ground, running in oil bath gears
- Standard features include automatic mode table feed in the X-Y, and Z-axis



标准附件
 • 变径套 ISO40/MT3
 • 操作工具
 • 卧铣位置刀杆支架
 • 冷却装置
 • 工作灯
 • 数显 DPA2000
 • 三轴光栅尺
 • 工厂组装
 • 三轴自动进给
 • 套装铣夹头 (8 件 / 套) Ø2-12mm
 Ø2-12mm

可选附件
 • 回转工作台
 • 万能分度头
 • 平口钳 QG125

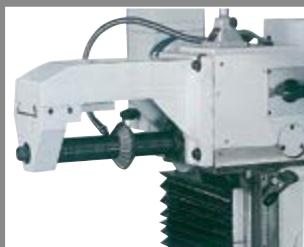
Standard accessories
 • Adapter ISO40/MT3
 • Operating tool
 • Steady for horizontal milling position
 • Coolant equipment
 • Machine lamp
 • Digital position display DPA 2000
 • Glass scales for three axis
 • Factory assembly
 • 3-Axis power feeder
 • Mill chuck set(8pcs/set) Ø2-12mm
 Ø2-12mm

Optional accessories
 • Rotary table
 • Universal head
 • Milling vice QG125

机床技术参数 /Specification

型号	Model	MX 2	MX 3
货号	Item no.	2402080	2403080
电器总功率	Electrical connection		
总电压	Total connection Motor ~50 Hz	2.2 kW 400 V / 3 Ph	2.2 kW 400 V / 3 Ph
进给电机	Feed motor	750 W	750 W
主轴	Spindle taper		
主轴锥度	Spindle taper	ISO 40	ISO 40
钻孔能力	Drilling capacity in steel (S235JR)	Ø 32 mm	Ø 32 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 28 mm	Ø 28 mm
主轴行程	Spindle stroke	80 mm	80 mm
立铣	Spindle vertical		
主轴转速	Spindle speed	40 - 1'600 rpm	40 - 2'000 rpm
转速级数	Gear stages	12 steps	18 steps
主轴端面至工作台面距离	Distance spindle - table	60 - 440 mm	50 - 450 mm
卧铣	Spindle horizontal		
主轴转速	Spindle speed	40 - 1'600 rpm	40 - 2'000 rpm
转速级数	Gear stages	12 steps	18 steps
主轴端面至工作台面距离	Distance spindle - table	35 - 425 mm	85 - 485 mm
工作台	Working table		
水平工作台尺寸	Dimensions horizontal table L x W	750 x 320 mm	750 x 320 mm
T型槽尺寸/距离/数量	T-slot size / Distance / Number	14 mm / 63 mm / 5	14 mm / 63 mm / 5
垂直工作台尺寸	Dimensions vertical table L x W	830 x 225 mm	930 x 225 mm
T型槽尺寸/距离/数量	T-slot size / Distance / Number	14 mm / 126 mm / 2	14 mm / 63 mm / 3
最大承载重量	Load capacity (max.)	300 kg	300 kg
X轴	X-Axis		
自动行程	Travel automatic	405 mm	400 mm
工作台进给	Table feed (18 Steps)	10 - 380 mm/min	10 - 380 mm/min
工作台快移速度	Table feed rapid	1'200 mm/min	1'200 mm/min
Y轴	Y-Axis		
自动行程	Travel automatic	200 mm	300 mm
工作台进给	Table feed (18 Steps)	10 - 380 mm/min	10 - 380 mm/min
工作台快移速度	Table feed rapid	1'200 mm/min	1'200 mm/min
Z轴	Z-Axis		
自动行程	Travel automatic	390 mm	390 mm
工作台进给	Table feed (18 Steps)	10 - 380 mm/min	10 - 380 mm/min
工作台快移速度	Table feed rapid	1'200 mm/min	1'200 mm/min
冷却系统	Coolant equipment		
电机功率	Motor pump	140 W	90 W
尺寸	Dimensions		
长 (系统摆臂在右/在左)	Length (DPA arm right /left side)	1'840 / 1'340 mm	1'880 / 1'650 mm
宽x高	Width x Height	1'640 x 2'120 mm	1'300 x 2'200 mm
净重/毛重	NW/GW	1200/1400 kg	1300/1650 kg

细节展示 Details



- 用于操作圆盘铣刀，尤其是在大的工作范围
- 拥有稳定的圆盘铣刀轴
- 可调轴承

Horizontal position

- For operations with disc milling cutter especially at large working ranges
- With steady and shaft for disc mill cutter
- Adjustable bearings



- 可以向机器两侧旋转

Control panel

- Swiveled to the left and right side of the machine

UNIVERSAL MILLING MACHINE

万能工具铣床 MX4

优质、高效、高性价比

- 应用范围广
- 三轴主轴带快速自动走刀
- 精加工工作台，水平和垂直位置带 T 型槽
- 盘式铣刀带刀杆支架和轴
- 变速开关元件操作简单
- 机床结构结实
- 厚重结实的高品质铸铁强筋设计制造
- 所有燕尾导轨经淬火和精加工处理
- 集中润滑
- 大口径手轮带刻度尺
- 标准工作灯
- 带标准冷却装置
- 导轨经淬火处理
- 带数显 DPA2000 和光栅尺
- 油盘
- 主轴头可旋转正负 90 度

Convincing arguments: quality, efficiency and price

- Wide range of applications
- Robust machine construction
- Heavy, solid design of high quality cast Meehanite
- All guides and hardened by V-ledge
- Central lubrication
- Main switch and motor protection switch, right-left rotation, emergency stop switch
- Large diameter handwheel with scale
- Standard machine Lamp
- Standard coolant equipment
- Simple operation of the switching elements for the speed change
- Slewing digital position display DPA 2000 precise tavel measurement of an integrated control unit
- Attached glass scales - 5 microns accuracy
- Dovetail with adjustable dovetail guides in all 3 Axis
- Extremely quiet operation due to ground, running in oil bath gears
- Standard features include automatic mode table feed in the X-Y, and Z-axis



MX 4

标准附件

- 变径套 ISO40/MT3
- 操作工具
- 卧铣位置刀杆支架
- 冷却装置
- 工作灯
- 数显 DPA2000
- 三轴光栅尺
- 工厂组装

Standard accessories

- Adapter ISO40/MT3
- Operating tool
- Steady for horizontal milling position
- Coolant equipment
- Machine lamp
- Digital position display DPA 2000
- Glass scales for three axis
- Factory assembly

可选附件

- 回转工作台
- 万能分度头
- 平口钳 QG125

Optional accessories

- Rotary table
- Universal head
- Milling vice QG125

机床技术参数 /Specification

型号	Model	MX 4
货号	Item no.	2404080
电器总功率	Electrical connection	
总电压	Total connection Motor ~50 Hz	3 kW 400 V / 3 Ph
进给电机	Feed motor	1.1 kW
主轴	Spindle taper	
主轴锥度	Spindle taper	ISO 40
钻孔能力	Drilling capacity in steel (S235JR)	Ø 32 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 28 mm
主轴行程	Spindle stroke	80 mm
立铣	Spindle vertical	
主轴转速	Spindle speed	40 - 2000 rpm
转速级数	Gear stages	18 steps
主轴端面至工作台面距离	Distance spindle - table	55 - 445 mm
卧铣	Spindle horizontal	
主轴转速	Spindle speed	40 - 2000 rpm
转速级数	Gear stages	18 steps
主轴端面至工作台面距离	Distance spindle - table	95 - 475 mm
工作台	Working table	
水平工作台尺寸	Dimensions horizontal table L x W	800 x 400 mm
T型槽尺寸/距离/数量	T-slot size / Distance / Number	14 mm / 63 mm / 6
垂直工作台尺寸	Dimensions vertical table L x W	1060 x 250 mm
T型槽尺寸/距离/数量	T-slot size / Distance / Number	14 mm / 63 mm / 3
最大承载重量	Load capacity (max.)	300 kg
X轴	X-Axis	
自动行程	Travel automatic	500 mm
工作台进给	Table feed (18 Steps)	10 - 380 mm/min
工作台快移速度	Table feed rapid	1200 mm/min
Y轴	Y-Axis	
自动行程	Travel automatic	400 mm
工作台进给	Table feed (18 Steps)	10 - 380 mm/min
工作台快移速度	Table feed rapid	1200 mm/min
Z轴	Z-Axis	
自动行程	Travel automatic	400 mm
工作台进给	Table feed (18 Steps)	10 - 380 mm/min
工作台快移速度	Table feed rapid	1200 mm/min
冷却系统	Coolant equipment	
电机功率	Motor pump	90 W
尺寸	Dimensions	
长 (系统摆臂在右/在左)	Length (DPA arm right /left side)	2190 / 1700 mm
宽x高	Width x Height	1500 x 2200 mm
净重/毛重	NW/GW	1400/1800 kg

细节展示 Details



- 用于操作圆盘铣刀，尤其是在大的工作范围
- 拥有稳定的圆盘铣刀轴
- 可调轴承

Horizontal position

- For operations with disc milling cutter especially at large working ranges
- With steady and shaft for disc mill cutter
- Adjustable bearings



- 可以向机器两侧旋转

Control panel

- Swiveled to the left and right side of the machine

UNIVERSAL MILLING MACHINE

万能工具铣床 MZ2/MZ4

标准附件：

- 客户颜色 & logo
- 整个控制面板总成
- XYZ 三轴运动台达变频电机
- XY 轴精度滚珠丝杆
- 主轴转速齿轮传动(台湾制造)
- 立柱右侧带急停开关
- 4 只长铣刀杆(16,22,27,32mm)
- 3 只变径套(MT-1,MT-2,MT-3)
- 8 只弹簧夹头(dia.2,3,4,5,6,8,10,12mm)
- 卧轴 / 立轴一根拉杆(ISO-40)
- 可折叠式工作台防护罩
- 卧铣外部接杆支架
- 工作灯
- 封闭的润滑系统
- X/Y/Z 三轴安全水泵
- 冷却系统带油盘
- 精度单
- X/Z 带风琴罩
- 工具 & 工具箱
- CE 认准的开关
- 垫块 & 螺栓
- 说明书和装箱单

Standard Accessories:

- Customer color & logo
- Completely control panel assembly
- DELTA Inverter motor on X,Y,Z axes movement
- Precision Ball screw on X,Y axis
- Geared Transmission for the Spindle speed (Taiwan made)
- E-Stop switch build on right side of column
- 4 pcs of Long cutter arbors (16,22,27,32mm)
- 3 pcs of Reducing sleeves(MT-1,MT-2,MT-3)
- Collet chuck with 8 pcs collets(dia.2,3,4,5,6,8,10,12mm)
- One-piece Draw bar(ISO-40) for Hor./Ver. Spindle
- Folding Housing Table Guard Assembly
- Outer arbor support for Hor. Milling
- Work lamp
- One-shut lubrication system
- Safety Handle on X/Y/Z axis
- Coolant system w/Chip tray
- Accuracy List
- Telescoping cover on X/Z axes
- Tools & Tool box
- CE Switches approved
- Level pad & Bolts
- Manual and Parts List



MZ 4



MZ 2

可选附件：

- Z 轴精度滚珠丝杆
- LED 工作灯
- 自动油润滑系统(只针对 MZ4)
- TUV 认证的 CE 证书
- Optimum 进口的三轴 Newall 数显表
- 三轴 Newall 数显表安装费
- 西门子开关(CE)
- Optimum 中国特殊附件

Optional Accessories:

- Precision Ball screw on Z axis
- LED work lamp
- Auto Oil lubrication system(only for MZ4)
- CE certificate approved by TUV
- Newall DRO 3 axis-import from Optimum
- Installation Charge for Newall DRO 3 axis
- SIEMENS Switches (CE)
- Special Accessories from China-Optimum

机床技术参数 /Specification

产品型号	Model	MZ 2	MZ 4
货号	Article no.	3346220	3346240
机器参数	Machine data		
电气参数	Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
总功率	Total consumption	4 kW	5,4 kW
快移电机功率	Motor rapid traverse / feed	0,375 kW	0,75 kW
水泵电机功率	Engine coolant pump	95 W	95 W
钻铣能力	Drilling-milling		
钢件钻销直径	Drilling capacity steel (S235JR)	Ø 20 mm	Ø 20 mm
钢件持续钻销直径	Duration drilling steel (S235JR)	Ø 16 mm	Ø 16 mm
主轴驱动	Spindle drive		
驱动电机	Drive motor	2,2 kW	3,75 kW
主轴转速	Spindle speeds	50 - 1.890 min-1	30 - 2.250 min-1
齿轮档位	Gear stage	12 stages	18 stages
主轴锥度	Spindle taper	ISO 40 DIN 2080	ISO 40 DIN 2080
拉杆	Drawbar	M16	M16
主轴到工作台距离	Distance spindle - cross table min./max.	75 - 410 mm	40 - 440 mm
套筒	Quill	120 mm	120 mm
最大能到	Reach max.	100 mm	185 mm
立铣旋转角度	Vertical rotation range	± 90°	± 90°
卧铣主轴	Horizontal spindle		
主轴锥度	Spindle taper	ISO 40 DIN 2080	ISO 40 DIN 2080
主轴到工作台距离	Distance spindle - cross table min./max.	70 - 400 mm	130 - 530 mm
工作台	Cross table		
卧铣工作台尺寸	Table length x width horizontal table	750 x 320 mm	900 x 500 mm
T型槽尺寸/间距/数量	T-slot size / distance / number	14 mm / 63 mm / 5	14 mm / 63 mm / 7
卧铣工作台最大负载	Load Horizontal table max.	385 kg	500 kg
立铣工作台尺寸	Table length x width vertical table	880 x 250 mm	1.200 x 250 mm
T型槽尺寸/间距/数量	T-slot size / distance / number	14 mm / 63 mm / 2	14 mm / 63 mm / 3
进给	Traversing with feed		
X轴 (XY档) 最大进给	X-axis (XY stage) max.	400 mm (manual) / 385 mm (auto)	600 mm (manual) / 585 mm (auto)
Y轴 (铣头) 最大进给	Y-axis (milling head) max.	200 mm (manual) / 185 mm (auto)	485 mm (manual) / 465 mm (auto)
Z轴 (XY档) 最大进给	Z-axis (XY stage) max.	380 mm (manual) / 365 mm (auto)	400 mm (manual) / 385 mm (auto)
驱动速度进给/快移	Drive speed feed / rapid traverse	50 - 450 min-1 / 700 min-1	50 - 450 min-1 / 800 min-1
进给率/快移	Feed rate / Rapid traverse	8 - 450 / 1000 mm/min	8 - 450 / 1000 mm/min
尺寸	Dimensions		
长宽高	Length x width x height	1.239 x 1.168 x 1.900 mm	1.610 x 1.825 x 1.885 mm
重量	Total weight	1.180 kg	1.450 kg

UNIVERSAL MILLING MACHINE

万能升降台铣床 UF 100

优质、高效、高性价比

- 应用范围广
- 机床结构结实
- 厚重结实的高级米哈奈特铸铁制造
- 燕尾导轨
- 所有导轨经淬火处理
- 中心润滑
- 带有电机保护的主开关，正反转开关
- 急停按钮
- 带有刻度的大尺寸手轮
- 标配的机床工作灯和冷却系统
- 高性价比、性能稳定

Convincing arguments: quality, efficiency and price

- Multi-purpose range of application
- Solid machine structure
- Heavy, solid model made of high-grade Meehanite casting
- Dovetail slideways
- All slideways hardened
- Central lubricating
- Main switch with protective motor switch, right-/left-handed rotation switch, emergency-stop button
- Largely dimensioned handwheels with scale
- Machine lamp supplied as standard
- Coolant equipment supplied as standard
- Price-efficient and stable value

标准附件：

- 高质量的强力万能铣削头
- 油盘
- 所有床身导轨均带防护罩
- 操作控制面板
- 手动润滑油泵
- 工具与工具盒

刀具拉杆

- X/Y 轴齿轮传动自动进给器
- 冷却泵
- 石英灯
- 套装铣夹头 J7325-ISO 40(8件套) 规格 4-16mm

Standard accessories:

- High quality Milling head
- With chip tray
- ALL the bedway with splash guard
- With operation control box
- With manual lubrication oil pump

可选附件

- 三轴数显装置
- 机用平口钳 QG150/QG200
- 58 件套铣夹具 (M12)
- 套装铣夹头 J7325-ISO40 (15 件 / 套) 规格 3-26mm

Optional accessories:

- Digital Readout for X/Y/Z
- Milling Vice QG150/QG200
- 58pcs Clamping Fixture(M12)
- Milling Chuck Set J7325-ISO40(15 pcs/set) size 3-26mm

带有定量阀和停止阀的冷却装置

- Coolant equipment with dosing valve and stop valve



· 卧铣
· Horizontal milling position

- 高度可调节的大尺寸防护罩 (可选)
- Safe guard height-adjustable largely dimensioned (optional)

- 油盘(可选)
- Chip tray (optional)

- 高强度、高精度、大尺寸的工作台
- Solid, precise, large cross table

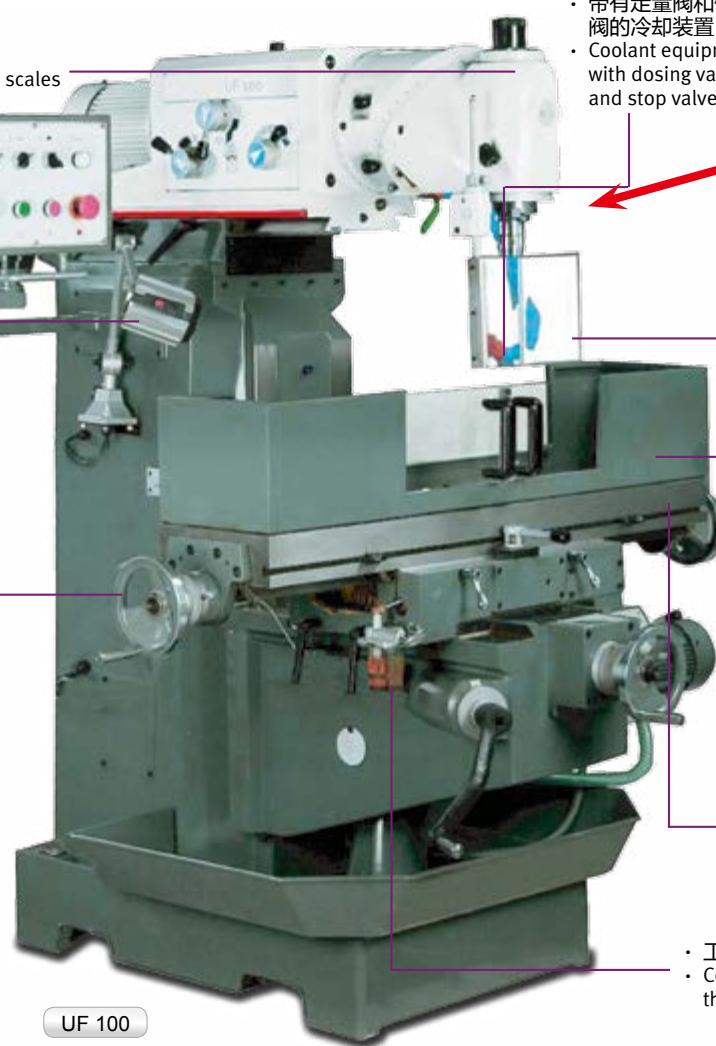
- 工作台手动润滑泵
- Central lubrication of the cross table

- 带有刻度的万能铣头
- Universal milling head with scales

- 布局清楚、可转动、易操作的控制面板
- Clearly arranged and steerable, Easy-to-operate control panel

- 机床工作灯
- Machine lamp

- 大尺寸可调节刻度的安全手轮
- Largely dimensioned adjustable graduated safety handwheels



UF 100

机床技术参数 /Specification

型号	Model	UF 100
产品编号	Code No.	2210000
加工范围	CAPACITY	
钻孔直径	Drilling capacity(max.)	Ø50mm
面铣直径	Milling capacity cutter head(max.)	Ø125mm
立铣直径	Milling capacity end mill cutter(max.)	Ø25mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle holding fixture	ISO40(DIN2080,DIN69871)
套筒直径	Sleeve diameter	no sleeve
套筒行程	Sleeve travel	0
钻铣头	DRILL-MILL HEAD	
主轴回转角度	Head rotation	360°
主轴转速	Spindle speed	45-1660rpm
Z轴手动行程	Z-axis travel manual	380mm
十字工作台	CROSS TABLE	
工作台(长×宽)	Table(LxW)	1120x260mm
X轴自动行程	X-axis travel automatic	600mm
Y轴自动行程	Y-axis travel automatic	300mm
工作台进给(9级)	Table feed(9 steps)	24-402mm/min
T型槽尺寸宽度/距离/数量	T-slot size/distance/number	14mm / 63mm / 3
主轴端面至工作台面最大距离	Distance spindle-cross table(max.)	480mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	2.2KW 380V-50Hz
冷却泵电机功率	Motor coolant pump	40W
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸(长×宽×高)	size(L×W×H)	1655x1325x1730mm
包装尺寸(长×宽×高)	packing size(L×W×H)	1600x1520x2220mm
净重/毛重	Net weight/Gross weight	1200/1320kg

细节展示 Details



- Z 轴自动走刀 (可选)
- Z axis power feed (optional)



- X 和 Y 轴工作台齿轮走刀器
- Motor with gear table feed X-and Y-axis

UNIVERSAL MILLING MACHINE

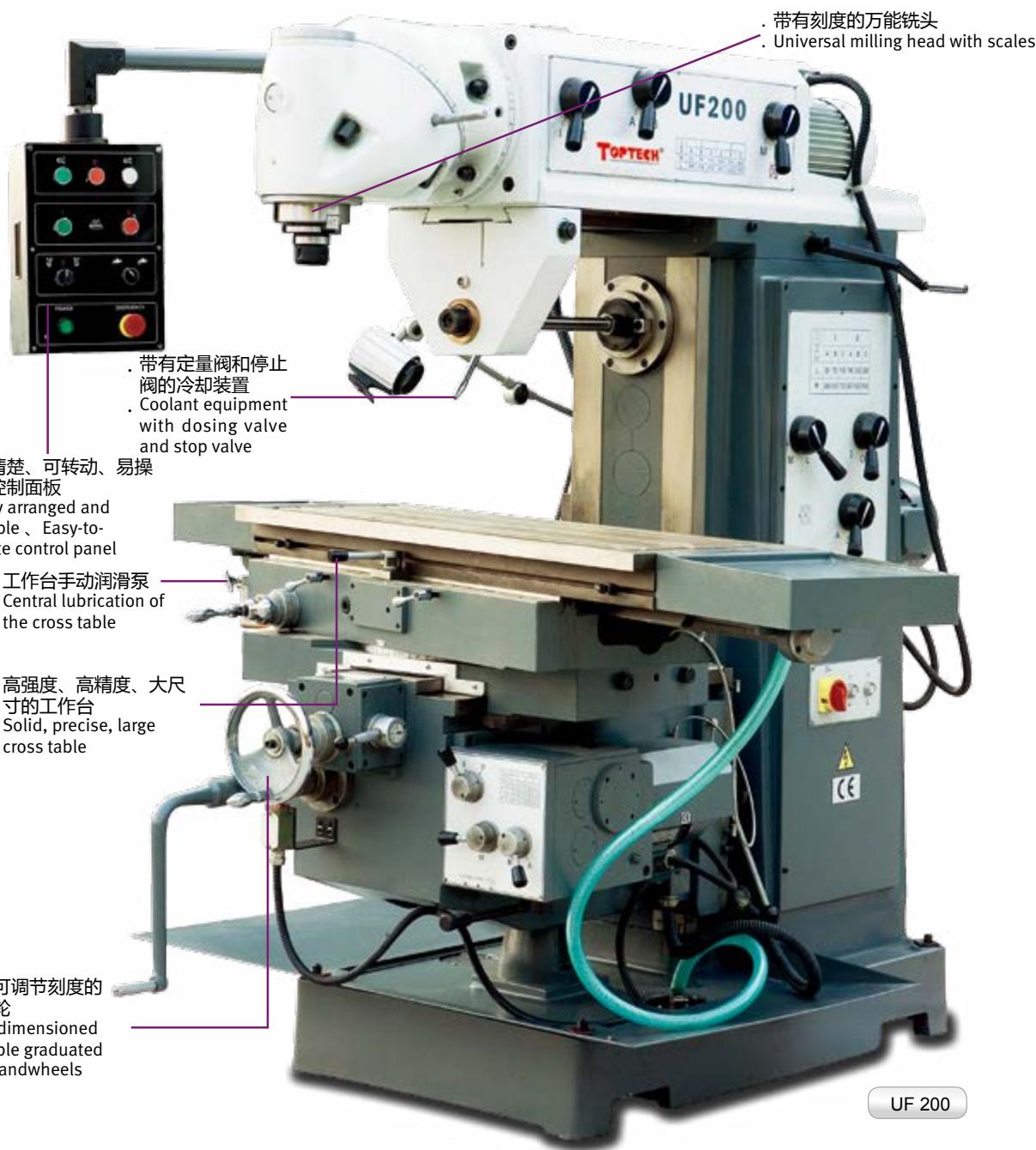
万能铣床 UF200

优质、高效、高性价比

- 应用范围广
- 机床结构结实
- 厚重结实的高级米哈奈特铸铁制造
- 燕尾导轨
- 所有导轨经淬火处理
- 中心润滑
- 带有电机保护的主开关，正反转开关，急停按钮
- 带有刻度的大尺寸手轮
- 标配的机床工作灯和冷却系统
- 高性价比、性能稳定

Convincing arguments: quality, efficiency and price

- Multi-purpose range of application
- Solid machine structure
- Heavy, solid model made of high-grade Meehanite casting
- Dovetail slideways
- All slideways hardened
- Central lubricating
- Main switch with protective motor switch, right-/left-handed rotation switch, emergency-stop button
- Largely dimensioned handwheels with scale
- Machine lamp supplied as standard
- Coolant equipment supplied as standard
- Price-efficient and stable value



UF 200

机床技术参数 /Specification

型号	Model	UF 200
货号	Code No.	2220000
钻孔直径	Drilling capacity(max.)	Ø40mm
面铣直径	Milling capacity cutter head(max.)	Ø200mm
立铣直径	Milling capacity end mill cutter(max.)	Ø30mm
主轴锥度	Spindle taper	ISO50
主轴转速范围(级数)	Spindle speed range(steps)	58~1800rpm(50Hz) 60~1750rpm(60Hz)
铣头回转	Head rotation	±35°
滑枕行程	Ram travel	500mm
Z 轴行程	Z-axis travel manual	400mm
Y 轴行程	Y-axis travel manual	300mm
X 轴行程	X-axis travel manual	1000mm
T型槽尺寸宽度/距离/数量	T-slot size/distance/number	14mm / 95mm / 5
工作台纵向电机进给速度	Table power feed speed range(X)	22~420mm/min
工作台横向电机进给速度	Table power feed speed range(Y)	22~393mm/min
工作台竖向电机进给速度	Table power feed speed range(Z)	10~168mm/min(50Hz)
主轴孔中心到工作台面距离	Distance between spindle and table	0~400mm
主轴孔中心到悬梁平面距离	Distance between spindle and ram	175mm
电机功率	Motor power	4kW
工作台尺寸	Working table size	1320x360mm / 1600x360mm(optional)
总体长度 x 宽度 x 高度	Overall dimension(LxWxH)	2260x2070x2250mm
净重 / 毛重	Net weight / Gross weight	2250/2450kg

标准附件

- 高质量的强力万能铣削头
- 油盘
- 所有床身导轨均带防护罩
- 操作控制面板
- 手动润滑油泵
- 工具与工具盒
- 刀具拉杆
- X/Y/Z 轴齿轮传动自动进给器
- 冷却泵
- 石英灯

Standard accessories:

- High quality Milling head
- With chip tray
- ALL the bedway with splash guard
- With operation control box
- With manual lubrication oil pump
- With tools and tool box
- With draw bar
- X/Y/Z-axis gear driver power feeder
- Coolant system
- Halogen lamp

可选附件

- 三轴数显装置
 - 机用平口钳 QG150
 - 58 件套铣夹具 (M12)
 - 套装铣夹头 J7325-ISO40 (8 件 / 套)
 - 套装铣夹头 J7325-ISO40 (15 件 / 套)
- Optional accessories:**
- Digital Readout forX/Y/Z
 - Milling Vice QG150
 - 58pcs Clamping Fixture(M12)
 - Milling Chuck Set J7325-ISO40(8 pcs/set)
 - Milling Chuck Set J7325-ISO40(15 pcs/set)

UNIVERSAL MILLING MACHINE

万能铣床 UF 150S



优质、高效、高性价比

- 采用一个伺服电机控制工作台三向自动进给，扭力大，节能安全可靠
- 机器铣头回转时可卧铣，机器齿轮全部采用高品质磨齿，噪音好，使用寿命长

Convincing arguments: quality, efficiency and price

- Using a three axis servo motor control table, large torque, energy saving safe and reliable
- Machines can lie milling, when milling and turning gear are all made of high quality grinding, good noise, long service life



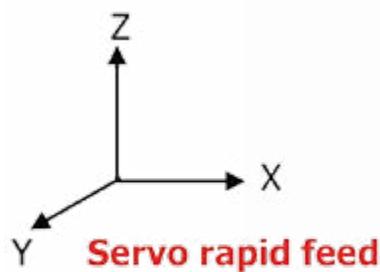
- 机头回转时可卧铣
- Swivel head when horizontal milling



- 工作台回转为选配
- Rotary table ($\pm 45^\circ$) is optional accessories

- 进给方向选择手柄
- Selector lever for feed direction

- 轴进给选择手柄
- Selector lever for feed axis



机床技术参数 /Specification

型号	Model	UF 150S
货号	Code No.	2215100
工作台最大承重	Max load of table	300 kg
工作台回转角度	Max rotary angle of table	±45° (optional)
主轴锥度	Spindle holding fixture	7:24 ISO40
主轴旋转	Spindle speed	45-1660 rpm
立主轴端面到工作台面的距离	Distance between spindle nose and table surface	100-500 mm
工作台尺寸	Table(LxW)	1270×300 mm
工作行程X/Y/Z	X/Y/Z travel	720/300/400 mm
T型槽	T-slots NO./width/pitch	3/14mm/80mm
工作台快移速度 (X/Y/Z)	Table rapid speed X/Y/Z	1335/1335/1000 mm
进给速度 (X/Y/Z)	Table feed X/Y/Z	X Y 30-830 Z 23-625
主电机功率	Motor	3Kw
外形尺寸	Packing size(L×W×H)	1730×1760×1700mm
机床净重	Net weight	1550 kg

标准附件

- 拉杆 M16
- 双头呆扳手 S22-24、S17-19、S32-36
- 内六扳手 5、6、10
- 平口钳 QB13
- 螺母 M16
- 垫圈 M16
- 锥柄套式铣刀柄 ISO40

Standard accessories:

- Draw bar M16
- Double-ended wrench S22-24、S17-19、S32-36
- Inner hexagonal wrench 5、6、10
- QB13 Series Machine vice
- Nut M16
- Washer M16
- Taper shank sleeve milling cutter arbor ISO40

UNIVERSAL MILLING MACHINE

万能铣床 UF200S

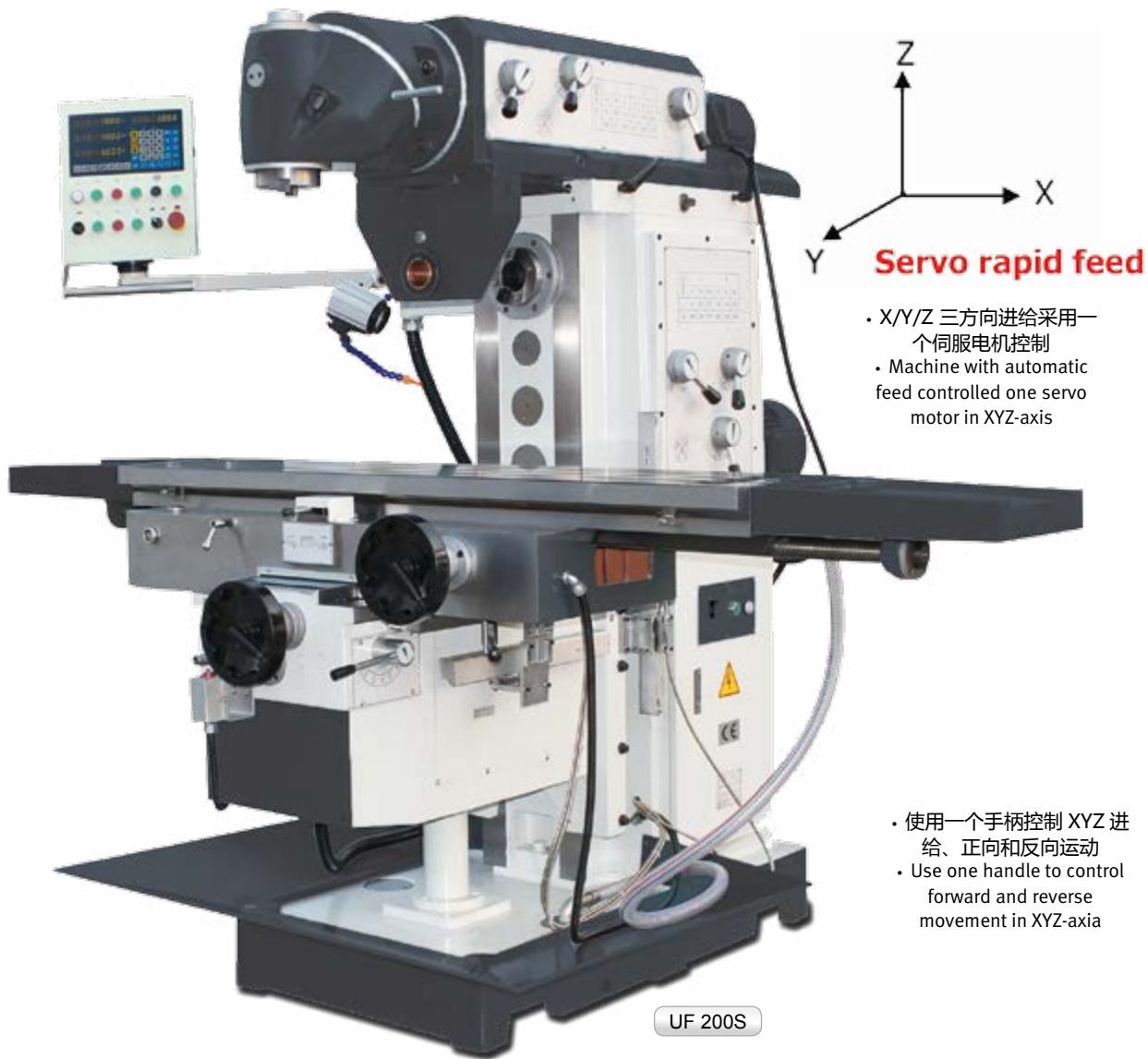


优质、高效、高性价比

- 高强度 HT-200 铸件及加强筋，带来高强度的床身
- 精磨导轨，表面淬火，保证长期使用精度和耐用性
- 1600 x 360 mm 的大工作区域面积，以及高达 500 kg 的工作台负载能力
- 齿轮淬火并磨齿，带来主轴箱齿轮噪音低、精度高
- 万能铣头可在两种水平位置回转 - 可迅速从水平方向切换到垂直方向加工
- 基于两种回转水平位置，可以设置几乎任何角度
- 使用强劲的伺服电机保证三轴进给无限调整
- Y 轴上可伸缩式护罩可保护进给主轴
- 控制面板可以旋转到任意一边，另外集成的位置显示器也是其特色
- 5.5 kW 的主驱动保证高扭矩
- 带冷却系统和油盘

Convincing arguments: quality, efficiency and price

- Extremely rigid machine bed made of high-strength HT-200 cast-iron with heavy ribbing
- Precision-ground guideways with hardened surfaces for long-term accuracy and wear-resistance
- Large work area of 1600 x 360 mm and up to 500 kg table load capacity
- Quiet, precision-made headstock gears with hardened and ground gears
- Universal cutter head swivels on 2 levels - quick change-over from horizontal to vertical machining
- By combining both swivel levels, almost any spatial angle can be set
- Powerful axis servo-motors allow infinite adjustment of feeds on all 3 axes
- Telescoping covers on the Y axis protect the feed spindle
- Control panel swings out to either side and features an integrated position indicator
- 5.5 kW main drive guarantees high torque
- Coolant system and chip tray are included



机床技术参数 /Specification

型号	Model	UF 200S
货号	Code No.	2220100
工作台最大承重	Max load of table	500 kg
工作台回转角度	Max rotary angle of table	±45° (optional)
主轴锥度	Spindle holding fixture	7:24 ISO50
主轴旋转	Spindle speed	60-1750 (V) rpm 60-1800 (H) rpm
卧轴端面到工作台的距离	Distance from horizontal spindle to table	20-410 mm
主轴端面到工作台的距离	Spindle nose-to-table distance	175-565 mm
立轴端面到工作台的距离	Distance between spindle nose and table surface	200 mm
工作台尺寸	Table(LxW)	1600×360 mm
工作行程X/Y/Z	X/Y/Z travel	1200/800/600 mm
T型槽	T-slots NO./width/pitch	3/18mm/80mm
工作台快移速度 (X/Y/Z)	Table rapid speed X/Y/Z	1200/800/600 mm
进给速度 (X/Y/Z)	Axis feed X/Y/Z	30-750/20-500/15-375 mm
主电机功率	Motor	4kw / 5.5kw
外形尺寸	Packing size(L×W×H)	2450×2100×2150mm
机床净重	Net weight	2750 kg

标准附件

- 卧铣接杆 Φ27、Φ32
- 拉杆 M16
- 双头呆扳手 S22-24、S17-19、S36-41
- 内六扳手 5、10、14
- QB13 平口钳 160mm
- 套筒 M24
- 垫圈 M24
- ISO50 套铣夹头 7:24 ISO50 4\5\6\8\10\12\14\16
- 立式铣刀杆 7:24 ISO50-Φ32

Standard accessories:

- Horizontal arbor assembly Φ27、Φ32
- Draw bar M24
- Double-ended wrench S22-24、S17-19、S36-41
- Inner hexagonal wrench 5、10、14
- QB13 Series Machine vice 160mm
- Sleeve M24
- Washer M24
- ISO50 sets milling chuck 7:24 ISO50 4\5\6\8\10\12\14\16
- Vertical milling cutter arbor 7:24 ISO50-Φ32

UNIVERSAL HORIZONTAL KNEE-TYPE MILLING MACHINE

万能卧式升降台铣床 UF 300

卧铣
Horizontal milling postion

NEW



- 高强度、高精度、大尺寸的工作台
- Solid precise large cross table

UF 300

机床技术参数 /Specification

型号	Model	UF 300
货号	Code No.	2230000
工作台面积	Worktable area	425x2000 mm
工作台行程 - 纵向 (手动 / 机动)	Trip of worktable longitudinal(manual/mobile)	1200/1180 mm
工作台行程 - 横向 (手动 / 机动)	Trip of worktable transverse(manual/mobile)	410/400 mm
工作台行程 - 升降 (手动 / 机动)	Trip of worktable movements(manual/mobile)	460/450 mm
工作台进给级数	Feed series workstations	15
工作台进给范围 - 纵向	Feed scope workstations longitudinal	10-1250 mm/min
工作台进给范围 - 横向	Feed scope workstations transverse	10-1250 mm/min
工作台进给范围 - 升降	Feed scope workstations movements	2.5-315 mm/min
主轴中心至工作台距离	Face to workstations from the spindle	30-480 mm
主轴变速级数	Spindle speed series	20
主轴变速范围	Spindle speed range	18-1400 rpm
主电机功率	Main electrical power	11 KW
外形尺寸	Size of machine	2614x2497x2043 mm
净重 / 毛重	Net weight/ Gross weight	5200 kg/5850kg

VERTICAL KNEE-TYPE MILLING MACHINE

立式升降台铣床 UF 400

NEW

. 带刻度的铣头
. milling head with scales

机床的三向坐标运动均采用 T 型杠杆付、性能可靠、工作效率高
coordinates movement of the three-machine lever used to pay T-reliable performance,high efficiency

. 高强度、高精度、大尺寸的工作台
. Solid precise large cross table

**机床技术参数 /Specification**

型号	Model	UF 400
货号	Code No.	2240000
工作台面积	Worktable area	425x2000 mm (可选 425×2500 mm) 1200/1180 mm (可选 1600/1580mm)
工作台行程 - 纵向 (手动 / 机动)	Trip of worktable longitudinal(manual/mobile)	410/400 mm
工作台行程 - 横向 (手动 / 机动)	Trip of worktable transverse(manual/mobile)	460/450 mm
工作台行程 - 升降 (手动 / 机动)	Trip of worktable movements(manual/mobile)	15
工作台进给级数	Feed series workstations	10-1250 mm/min
工作台进给范围 - 纵向	Feed scope workstations longitudinal	10-1250 mm/min
工作台进给范围 - 横向	Feed scope workstations transverse	2.5-315 mm/min
工作台进给范围 - 升降	Feed scope workstations movements	40-490 mm
主轴中心至工作台距离	Face to workstations from the spindle	90mm
主轴套筒行程	Spindle sleeve trip	20
主轴变速级数	Spindle speed series	18-1400 rpm
主轴变速范围	Spindle speed range	11 KW
主电机功率	Main electrical power	2600x2435x2500 mm (可选 3100×2435×2500mm)
外形尺寸	Size of machine	5500/6160 kg (可选 5600/6260 kg)
净重 / 毛重	Net weight/ Gross weight	

UNIVERSAL MILLING MACHINE

万能铣床 UF500 Servo

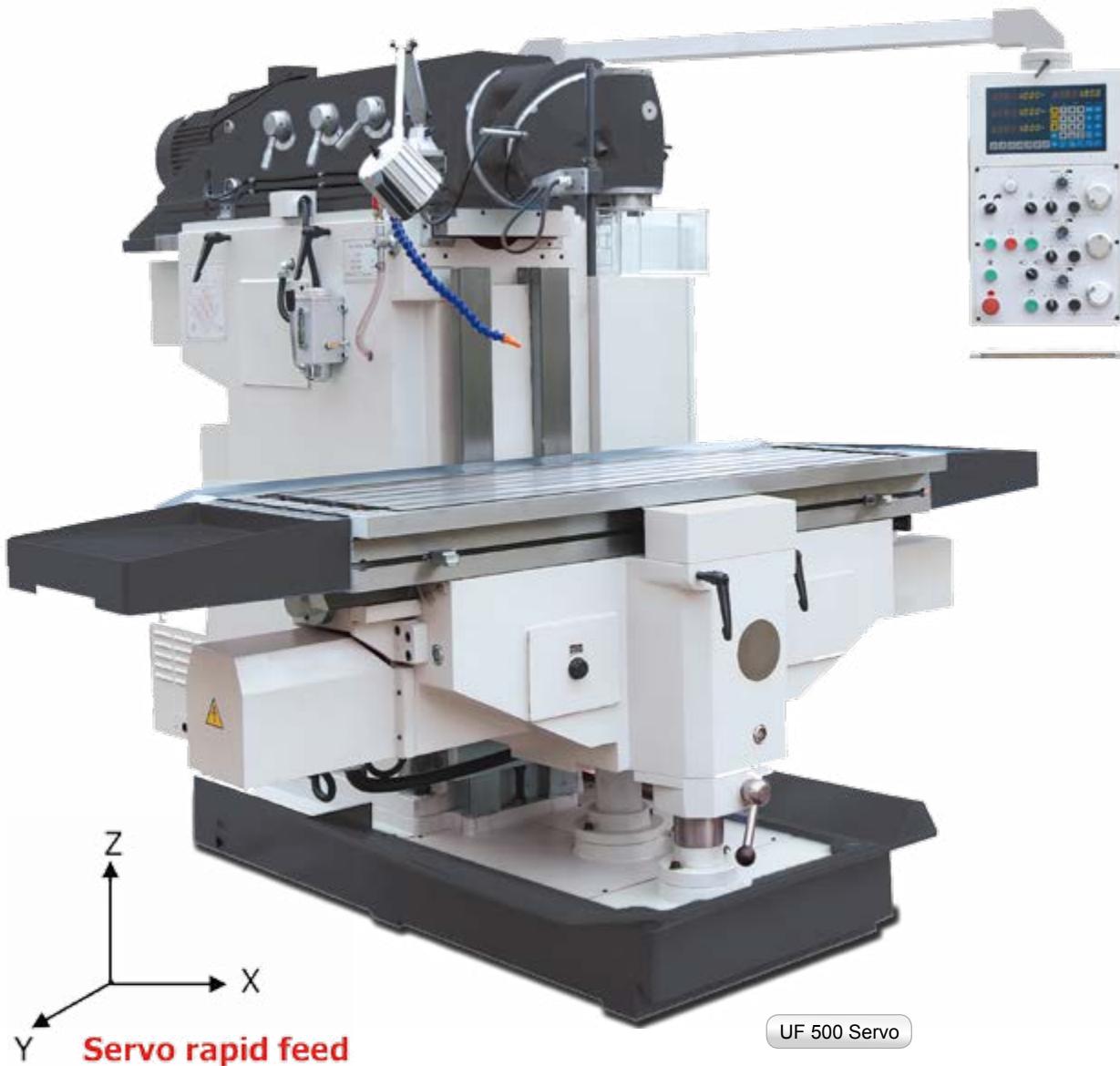


优质、高效、高性价比

- 工作台三轴装配滚珠丝杠，精度高
- 3个独立的马达控制工作台进给，无级变速，互补影响，可靠并易于操控厚重结实的高级米哈奈特铸铁制造
- 机械变速的主轴箱实现强力铣削
- 工作台另配支柱，承重量大且精度高中心润滑
- 通过铣头的旋转，前面半圆可以铣削任何角度表面

Convincing arguments: quality, efficiency and price

- Table 3 axes with ball screws, high precision
- Table feeding with 3 separate servo motors, variable speeds, not interfere each other high reliability easy to operate
- Mechanical change speeds in head stock, powerful milling
- Table with an extra supporting column, big load, high accuracy
- It can mill any angle surface through front half-sphere by swiveling milling head



机床技术参数 /Specification

型号	Model	UF 500 Servo
货号	Code No.	2250000
主轴箱旋转角度	Swivel angle	360°
主轴锥度	Spindle holding fixture	IS050
主轴旋转	Spindle speed	(27) 30-2050 rpm
主轴中心到立柱的距离	Distance from spindle center line to column	45-745 mm
立轴端面到工作台的距离	Distance between spindle nose and table surface	50-550 mm
工作台尺寸	Table(LxW)	500×2000 mm
工作行程X/Y/Z	X/Y/Z travel	1400×700×500 mm
T型槽	T-slots NO./width/pitch	5/18mm/80mm
工作台快移速度 (X/Y/Z)	Table rapid speed X/Y/Z	2200/2200/1100 mm/min
工作台进给 (X/Y/Z)	Table feed X/Y/Z	10-1000/10-1000/5-500 mm/min
主电机功率	Motor	7.5 kw
外形尺寸	Packing size(L×W×H)	2625×2860×2080 mm
机床净重	Net weight	5500 kg

细节展示 Details



- 通过铣头的旋转，前面半圆可以铣削任何角度表面
- It can mill any angle surface through front half-sphere by swivelling milling head
- X/Y/Z 导轨集中润滑
- Central lubrication for X/Y/Z axis

UNIVERSAL MILLING MACHINE

万 能 铣 床 UF 1500



UF 1500

机床技术参数 /Specification

型号	Model	UF 1500
货号	Code No.	2215000
工作台尺寸	Table size	2100x500 mm
工作台行程X、Y	Table travel(X、Y)	1500x670 mm
Z向(机头上下)	Vertical travel of headstock	0-670 mm
工作台T型槽个数/宽度/间距	Number/width/distance of T-slot	4/20mm/100mm
工作台最大承重	Max.load of table	2000 kg
X、Y向进给速度	Feed speed	20-1800 mm/min
X、Y快速移动速度	Rapid feed speed	3500 mm/min
主轴锥度	Taper of spindle	7:24 ISO50
主轴转速范围	Spindle speed range	35-1345 rpm
主轴转速级数	Spindle speed step	12 steps
主轴中心至立柱导轨面距离	Distance from spindle axis to column guideway	610 mm
主轴电机功率	Spindle motor power	7.5 KW
冷却泵电机	Cooling pump motor	550 W
外形尺寸	Overall dimension	3300x2380x2750 mm
重量	Weight	7300 kg

标准附件 :

- 拉杆
- 铣夹头 ISO50
- 铣接杆 φ40
- 卧铣接杆 φ32
- 7 : 24 中间套筒 ISO50/MS4
- 工具箱
- 油枪
- 地脚螺栓 M12×500

Standard Accessories :

- Draw bar
- ISO50 Milling chuck
- ISO50 Milling arbor φ40
- Horizontal milling arbor φ32
- 7 : 24 Middle sleeve ISO50/MS4
- Tool box
- Oil gun
- Foundation bolts M12×500

细节展示 Details



SURFACE GRINDING MACHINE

平面磨床 HSG 2050(VF)/2550(VF)

VF 系列

X、Y 轴自动

Z 轴标配交流伺服电机，在西门子 PLC 及 TD400 显示器控制下，可以实现机动升降，以及全自动磨削功能。

VF Series

X/Y axis auto

Z axis standard equipped with AC servo motor, controlled by SIEMENS PLC & TD400 HMI, by this to realize AUTO down feed and rapid down feed function.



左右、前后自动进给
升降配备普通马达，可实现机
动升降，手动进给
X/Y axis auto motion
Z axis equipped with AC motor,
to realize rapid move and
manual down feed

标准附件：

- 砂轮卡盘
- 砂轮平衡轴
- 砂轮拔出装置
- 冷却水箱
- 工作灯
- 工具箱及工具
- 砂轮修整器座 (含金刚笔)
- 标准砂轮
- 水平调整螺栓及垫铁
- 电磁吸盘
- 内置式电磁吸盘控制器
- PLC 自动磨削控制器 (只限于 VF 机型)

Standard accessories :

- Wheel Flange
- Balancing Arbor
- Wheel Extractor
- Coolant Tank
- Working Lamp
- Tool Box And Tools
- Wheel Dresser Stand (With Diamond Pen)
- Standard Grinding Wheel
- Leveling Wedge And Bolt
- Standard Eletro Magnetic Chuck
- Build In Electro Magnetic Chuck Controller
- Plc Auto Grinding Controller (Only For VF Models)

机床技术参数 /Specification

型号	Model	HSG 2050/HSG 2050VF	HSG 2550/HSG 2550VF
货号	Code No.	8120500	8125500
工作台面积 (宽×长)	Table size (w×L)	200×508 mm	254×508 mm
左右最大移动量	Max. longitudinal travel	560 mm	560 mm
工作台前后最大移动量	Max. cross travel	240 mm	275 mm
主轴轴线至工作台面最大距离	Max. distance from spindle center to table surface	450 mm	450 mm
电磁吸盘尺寸	Magnetic chuck size	200×460 mm	250×500 mm
工作台纵向移动速度	Speed of table longitudinal movement	5~25 m/min	5~25 m/min
工作台横向移动自动进给量	Table transverse movement intermittent feed	0.1~8 mm/ stroke	0.1~8 mm/ stroke
工作台横向移动机动速度	Table transverse movement Rapid speed	990 mm/min	990 mm/min
工作台横向移动手轮进给量	Table transverse movement Feed of hand wheel	0.02 mm/div.	0.02 mm/div.
砂轮转速	Grinding wheel speed	2850 rpm(50Hz、 3450 rpm(60Hz)	2850 rpm(50Hz)、 3450 rpm(60Hz)
砂轮尺寸	Grinding wheel Size (OD×W×ID)	200×20×31.75 mm	200×20×31.75 mm
主轴电机	Spindle Motor	2.2 KW	2.2 KW
液压站电机	Hydraulic pump motor	0.75 KW	0.75 KW
冷却泵电机	Cooling pump motor	0.04 KW	0.04 KW
前后驱动电机	Cross feed motor	0.04 KW	0.04 KW
工作台最大载重量 (含吸盘)	Max. loading capacity of table(include magnetic chuck)	120 kg	180 kg
总额定功率	Total rated power	3.7 KW	3.7 KW
净重/毛重	N.W./G.W.	1600/1650 kg	1750/1800 kg
包装尺寸	Packing size (L×W×H)	2000×2100×2150 mm	2000×2100×2150 mm

可选附件 :

- 冷却吸尘装置
- 平衡架
- 砂轮卡盘
- 磁分冷却系统
- 纸带冷却系统
- 磁分 / 纸带冷却系统
- 平行修整器

Optional accessories :

- Coolant Tank With Dust Collector
- Balancing Stand
- Wheel Flange
- Coolant Tank With Magnetic Separator
- Coolant Tank With Paper Filter
- Coolant With Magnetic Separator And Paper Filter
- Parallel Wheel Dresser



- 平行修整器
- Parallel Wheel Dresser

SURFACE GRINDING MACHINE

平面磨床 HSG 3063/4080



HSG 4080

可选 Optional:
HSG 3063VF/4080VF

- 普通马达
- 可以实现快速升降
- 进给用手动；
by handle wheel and normal AC motor,
the AC motor will make the quick elevating
movement.

- 伺服马达
- 既可以实现快速升降
- 又可以实现自动进给；
by handle wheel and normal
AC SERVO motor, the AC SERVO
motor will make the AUTO FEED
movement.

标准附件：

- 砂轮卡盘
- 砂轮平衡轴
- 砂轮拔出装置
- 冷却水箱
- 工作灯
- 工具箱及工具
- 砂轮修整器座 (含金刚笔)
- 标准砂轮
- 水平调整螺栓及垫铁
- 电磁吸盘
- 内置式电磁吸盘控制器
- PLC 自动磨削控制器 (只限于 VF 机型)

Standard accessories :

- Wheel Flange
- Balancing Arbor
- Wheel Extractor
- Coolant Tank
- Working Lamp
- Tool Box And Tools
- Wheel Dresser Stand (With Diamond Pen)
- Standard Grinding Wheel
- Leveling Wedge And Bolt
- Standard Eletro Magnetic Chuck
- Build In Electro Magnetic Chuck Controller
- Plc Auto Grinding Controller (Only For VF Models)

可选附件：

- 冷却吸尘装置
 - 平衡架
 - 砂轮卡盘
 - 磁分冷却系统
 - 纸带冷却系统
 - 磁分 / 纸带冷却系统
 - 平行修整器
- Optional accessories :**
- Coolant Tank With Dust Collector
 - Balancing Stand
 - Wheel Flange
 - Coolant Tank With Magnetic Separator
 - Coolant Tank With Paper Filter
 - Coolant With Magnetic Separator And Paper Filter
 - Parallel Wheel Dresser

机床技术参数 /Specification

型号	Model	HSG 3063	HSG 4080
货号	Code No.	8130630	8140800
工作台面积 (宽×长)	Table size (w×L)	305×635 mm	406×813 mm
左右最大移动量	Max. longitudinal travel	765 mm	900 mm
工作台前后最大移动量	Max. cross travel	340 mm	450 mm
主轴轴线至工作台面最大距离	Max. distance from spindle center to table surface	580 mm	580 mm
电磁吸盘尺寸	Magnetic chuck size	300×600 mm	400×800 mm
工作台纵向移动速度	Speed of table longitudinal movement	7~23 m/min	7~23 m/min
工作台横向移动自动进给量	Table transverse movement intermittent feed	0.1~8 mm/ stroke	0.1~8 mm/ stroke
工作台横向移动机动速度	Table transverse movement Rapid speed	990 mm/min	990 mm/min
工作台横向移动手轮进给量	Table transverse movement Feed of hand wheel	0.02 mm/div.	0.02 mm/div.
砂轮转速	Grinding wheel speed	1450 rpm(50Hz) 1750 rpm(60Hz)	1450 rpm(50Hz) 1750 rpm(60Hz)
砂轮尺寸	Grinding wheel Size (OD×W×ID)	350×40×127 mm	350×40×127 mm
主轴电机	Spindle Motor	5.5 KW	5.5 KW
液压站电机	Hydraulic pump motor	2.2 KW	2.2 KW
冷却泵电机	Cooling pump motor	0.125 KW	0.125 KW
前后驱动电机	Cross feed motor	0.04 KW	0.04 KW
工作台最大载重量 (含吸盘)	Max. loading capacity of table(include magnetic chuck)	270 kg	500 kg
总额定功率	Total rated power	9 KW	9 KW
净重/毛重	N.W./G.W.	2850/2900 kg	3300/3500 kg
包装尺寸	Packing size (L×W×H)	2350×2220×2150 mm	2850×2270×2180 mm

可选附件 /Optional accessories :



· 4080R 小半罩



· 4080A 大半罩

MANUAL SURFACE GRINDING MACHINE

手动平面磨床 MSG 180/MSG 250



MSG 180



MSG 250

MSG 180

标准附件：

- 砂轮卡盘
- 砂轮平衡轴
- 砂轮拔出装置
- 冷却水箱
- 工作灯
- 工具箱及工具
- 砂轮修整器座 (不含金刚笔)
- 标准砂轮
- 水平调整螺栓及垫铁

Standard accessories :

- Wheel Flange
- Balancing Arbor
- Wheel Extractor
- Coolant Tank
- Working Lamp
- Tool Box And Tools
- Wheel Dresser Stand Not Include Diamond Pen
- Standard Grinding Wheel
- Leveling Wedge And Bolt

MSG 250

标准附件：

- 砂轮卡盘
- 砂轮平衡轴
- 砂轮拔出装置
- 冷却水箱
- 工作灯
- 工具箱及工具
- 砂轮修整器座 (含金刚笔)
- 标准砂轮
- 水平调整螺栓及垫铁
- 砂轮平衡架

Standard accessories :

- Wheel Flange
- Balancing Arbor
- Wheel Extractor
- Coolant Tank
- Working Lamp
- Tool Box And Tools
- Wheel Dresser Stand (With Diamond Pen)
- Standard Grinding Wheel
- Leveling Wedge And Bolt
- Balancing Stand

机床技术参数 /Specification

型号	Model	MSG 180	MSG 250
货号	Code No.	8171800	8172500
可磨最大宽度	Max. width to be ground	220 mm	220 mm
可磨最大长度	Max. length to be ground	470 mm	520 mm
可磨最大高度	Max. height to be ground	350 mm	350 mm
工作台面积	table size (W×L)	210×450 mm	200×520 mm
永磁吸盘面积 (特殊附件)	Permanent magnetic chuck size (Optional)	200×400 mm	200×450 mm
最大纵向行程	Max. longitudinal travel	500 mm	570 mm
最大横向行程	Max. cross travel	240 mm	250 mm
主轴中心到台面最大距离	Max. distance from spindle center to table surface	450 mm	450 mm
砂轮机尺寸	Grinding wheel Wheel sizes	200×13×31.75 mm	200×20×31.75 mm
砂轮转速	Grinding wheel Speed	3450 (60HZ) , 2850 (50HZ) r/min	
磨头电机功率	Spindle motor power	标准standard 1.5KW (电主轴build in spindle : 1.1KW)	
机床最大承载(含永磁吸盘)	Max. table loading (include chuck)	128 kg	140 kg
机床重量	Machine weight	920 kg	1120 kg
机床外形尺寸	Machine size (L×W×H)	1330×1150×1680 mm	1450×1390×1770 mm
标准包装箱尺寸	Package size (standard)	1150×1410×1950 mm	1670×1700×1980 mm
拆工作台包装尺寸	Package size (dismantle table)	1400×1120×1980 mm	1670×1120×1980 mm

MSG 180

可选附件 :

- 永磁吸盘 200×400 用于 M818A
- 冷却吸尘装置
- 砂轮平衡架
- 平行修整器 (滑块式)
- 砂轮卡盘

Optional accessories :

- Permanent Magnetic Chuck For M818A
- Cooling And Dust Collector
- Wheel Balancing Stand
- Parallel Wheel Dresser
- Wheel Chuck

MSG 250

可选附件 :

- 砂轮平衡架
- 冷却吸尘装置
- 砂轮卡盘
- 平行修整器
- 吸尘装置

Optional accessories :

- Wheel Balancing Stand
- Cooling And Dust Collector
- Wheel Chuck
- Parallel Wheel Dresser
- Dust Collector

OPTIMUM Precision quick-action drill chuck

True running accuracy of better than 0.06 mm

0 - 8 mm; B16	305 0608
0 - 10 mm; B16	305 0610
0 - 13 mm; B16	305 0623
0 - 16 mm; B16	305 0626
0 - 16 mm; B18	305 0630



Quick-action drill chuck

1 - 13 mm; B16	305 0656
3 - 16 mm; B16	305 0657



OPTIMUM Direct quick-action drill chuck

MT 2 1 - 16 mm; up to 6'000 min⁻¹	305 0571
MT 2 1 - 13 mm; up to 8'000 min⁻¹	305 0572
MT 3 1 - 16 mm; up to 6'000 min⁻¹	305 0573
MT 4 1 - 16 mm; up to 6'000 min⁻¹	305 0574



Extension bushings

MT 2 - MT 3	305 0667
MT 3 - MT 4	305 0668



Arbor for drill chuck

Outside cone MT 2 / M10 / B16	305 0670
Outside cone MT 3 / M12 / B16	305 0303
Outside cone MT 4 / M16 / B16	335 0304
Outside cone ISO 30 / M12 / B16	335 2069
Outside cone ISO 40 / M 16 / B16	335 2070



Arbor for milling cutter MK2

335 2102

- Outside cone MK2
- Seat for milling cutter Ø 16 mm

Arbor for milling cutter SK50

335 2066

Outside cone 27 mm DIN2080

Arbor for milling cutter ISO 40

335 2071

- Outside cone ISO 40
- Seat for milling cutter Ø 22 mm



Fig.: ISO 40

Morse taper SK50

335 2067

B18 DIN2080

Vibration damping machine foot

- Machines and devices can be installed without anchoring and exactly levelled per height adjustment
- Machine capability is improved by efficient impact and vibration damping

SE 1	338 1012
SE 2	338 1016
SE 3	338 1018

Charge	SE 1	SE 2	SE 3
Milling machines	340 Kg	460 kg	1'600 kg
Sawing/ General machinery	570 kg	1'460 kg	3'500 kg
Thread	M12	M 16	M 20
Base Ø/Base height	120/32	160/35	185/39



End mill kit

- Coated with titanium
- Higher durability and stability with 2 to 5 times longer service life
- Double chipping performance
- Better workpiece surface
- With cylindrical shaft and lateral pulling faces
- Type with 2 cutting edges for milling of keyways / drilling slots as well as milling grooves in the centre of the workpiece
- Vertical or lateral milling processes can be performed
- Type with 4 cutting edges with 30° right-handed helix for good chip removal for standard to rigid materials
- Wooden box

End mill kit HSS 12 pcs

335 2113

- 6 milling cutter, short type • Type with 2 cutting edges.
- DIN 1835 B (ø12x73, ø10 x 63, ø8 x 61, ø6 x 52, ø5 x 52, ø4 x 51 mm)
- 6 milling cutter, short type • Type with 4 cutting edges.
- DIN 1835 B (ø12 x 83, ø10 x 73, ø8 x 6, ø6 x 57, ø5 x 57, ø4 x 55 mm)

End mill kit HSS 20 pcs

338 6200

- 10 milling cutter DIN 327 D • short type • 2 cutting edges
- DIN 1835 B, (3/4/5/6/8/10/12/14/18/20 mm)
- 10 milling cutter DIN 844 B • short type • 4 cutting edges
- DIN 1835 B, (3/4/5/6/8/10/12/14/18/20 mm)


Hard-metal milling cutter kit

335 2118

- 18 pcs; 3 pcs each of the sizes 3/4/6/8/10 and 12 mm
- Type with 4 cutting inserts
- Coated full hard metal milling cutter (TiALN)
- Central cut for plunging
- Angle of rake 35°


Precision modular vices

305 1010

- Coated with titanium
- Higher service life and durability
- Higher hardness than hard metal
- More rapid working results
- Lower wear
- 25 pcs; Sizes 1 - 13 mm
- Metal box


Twist drill HSS incl. Morse taper

- 9 pieces; sizes 14,5/16/18/20/22/24/26/28/30 mm
- Wooden box
- Long service life
- Good chip removal
- Right hand cutting

MT2

305 1002

MT3

305 1003


Milling cutter kit radius

335 2116

- 9-pieces; Sizes 3 x 4 mm/3 x 6 mm/3 x 8 mm
- Type with 2 cutting inserts
- Coated full hard metal milling cutter (TiALN)
- Face cutting edge geometry for plunging
- Angle of rake 30°



Copy and planing cutter head "Made in Germany"

- Universal insert to treat all steel and NE metals
- For surface and copy milling
- Made of special steel - highly annealed
- High plan and true running accuracy
- Milling body with irregular partition for very smooth running and regular cuts
- Base body and clamping shaft are forming a unit, thus short protruding length and stable tension
- No additional milling arbors are used
- Special geometries for milling at high speed
- Economic since the plate can be easily turned on when the cutting edge is getting blunt (it can be used up to 12 times)
- Including 5 cutting inserts RDET 1003 MOSN 8026
- Including Torx TX15

- 5 cutting edges
- Outside diameter 52 mm
- Cutting inserts Ø 10 mm
- ISO designation RDX. 1003 D52/R5

Seat shaft MT 2/M10	335 0212	195.00
Seat shaft MT 3/M12	335 0213	215.00
Seat shaft MT 4	335 0214	289.00
Seat shaft ISO 30	335 0215	249.00



Fig.: MT 2

- 5 cutting edges
- Outside diameter 63 mm
- Cutting inserts Ø 10 mm
- ISO designation RDX. 1003 D63/R5

Seat shaft ISO 40	335 0216	289.00
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Fig.: ISO40

HM cutting inserts 5 pcs

- RDET 1003 MOSN8026
- Positive cutting edge geometry
- PVD coated
- To machine steel of up to 900 N/mm², stainless steel, aluminium, non-ferrous metal, cast iron

RDET	335 0220	45.00
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- RDHT 1003 MO-FA HF7
- Highly positive cutting edge geometry
- Polished
- To machine AL alloys, copper alloys, plastic materials

RDHT	335 0221	45.00
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Fig.: RDET



Fig.: RDHT

Precision boring drilling head kit

- Tool kit for universal use for drilling/turning tasks to produce fit drills, clearance grooves, internal threads, etc.
- Also suitable for outside and vertical machining
- Field of application from Ø 10 mm to Ø 220 mm
- Made of high quality steel, hardened and precision ground
- Including boring cutters, shafts, clamp sleeves, socket spanners
- Case

MT 3	335 2083	269.00
MT 4	335 2084	269.00
ISO 30	335 2085	279.00
ISO 40	335 2086	269.00



Precision boring drilling head kit

- Tool kit for universal use for drilling/turning tasks to produce fit drills, clearance grooves, internal threads, etc.
- Also suitable for outside and vertical machining
- Field of application from Ø 5 mm to Ø 250 mm
- Made of high quality steel, hardened and precision ground
- Including boring cutters, shafts, clamp sleeves, socket spanners
- Case

MT 3	335 2073	1'050.00
ISO 30	335 2072	1'050.00
ISO 40	335 2074	1'050.00



Collet chuck kit

• Collet chuck	
• Sickle spanner	
MT 2/M10/ER 25	335 2052
• 15 collets; sizes Ø 1,5 - Ø 16 mm / DIN ISO 15488	
MT 2/M10/ER 32	335 2053
• 18 collets; sizes Ø 2 - Ø 20 mm / DIN ISO 15488	
MT 3/M12/ER 32	335 2093
• 18 collets; sizes Ø 2 - Ø 20 mm / DIN ISO 15488	
MT 4/M16/ER 32	335 2094
• 18 collets; sizes Ø 2 - Ø 20 mm / DIN ISO 15488	
ISO 30/ER32/DIN 2080	335 2054
• Collet chuck	
• 18 collets, sizes Ø 2 - 20 mm / DIN ISO 15488	
• Draw-in bolt M12/M12 and draw-in bolt BT 30	
• Sickle spanner	
• Metal case	
ISO 40/ER32/DIN 2080	335 2056
• Collet chuck	
• 18 collets, sizes Ø 2 - Ø 20 mm / DIN ISO 15488	
• Draw-in bolt M16/M16 and draw-in bolt BT 40	
• Sickle spanner	
• Metal case	
SK 50/ER32/DIN 2080	335 2065
• Collet chuck	
• 18 collets, sizes Ø 2 - Ø 20 mm / DIN ISO 15488	



Fig. ISO 40

Collet chuck ISO 30/ER25

335 2046

- Sickle spanner

**Collet kit**

ER 25	344 1109
• 15 collets, sizes Ø 1 - 16 mm / DIN ISO 15488	
ER 32	344 1122
• 18 collets, sizes Ø 3 - 20 mm / DIN ISO 15488	

**Adapter ISO 30 / MT 3**

344 2068

Collets MT 3 directly clamping / M 12 (single)

Ø 4 mm	335 2004
Ø 6 mm	335 2006
Ø 8 mm	335 2008
Ø 10 mm	335 2010
Ø 12 mm	335 2012
Ø 16 mm	335 2013

Collet kit

MT 2 directly clamping /M 10	335 1980
• 5-pieces; sizes Ø4 / Ø6 / Ø8 / Ø10 / Ø12 mm	
• Wooden box	
MT 3 directly clamping /M 12	335 2014
• 6-pieces; sizes Ø4 / Ø6 / Ø8 / Ø10 / Ø12 / Ø16 mm	
• Wooden box	

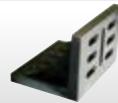
**Clamping tool kit SPW 58 pcs**

• Metric threads	
• 24 pcs draw-in bolts	
• 6 pcs T-slots	
• 6 pcs nuts	
• 4 pcs elongation nuts	
• 6 pcs step blocks	
• 12 pcs clamping blocks	
• Practical wall bracket	
SPW 8	335 2015
• T-slots 10 mm; draw bar thread M 8	
SPW 10	335 2016
• T-slots 12 mm; draw bar thread M 10	
SPW 12	335 2017
• T-slots 14 mm; draw bar thread M 12	
SPW 14	335 2018
• T-slots 16 mm; draw bar thread M 14	
SPW 16	335 2019
• T-slots 18 mm; draw bar thread M 16	

**Bracket 90°**

338 5052

• For clamping purposes when performing mechanic machining of workpieces control and marking off works	
• Precision: Parallelism and angularity of 0.01 on 100 mm	
• Lateral stiffening ribs	
• Neat processing of outsides	
• Dimensions L x W x H: 202 x 126 x 150 mm	
• Weight 7 kg	



Horizontal-vertical circular dividing tables including 3-jaw chuck

- Quality circular dividing tables made of high quality Meehanite cast
- Reliable and precise
- Precision taper roller bearing
- Stability even under heavy load
- Large spindle hole to clamp longer workpieces
- Direct dividing via locking discs for higher manufacturing speed for mass parts
- Degree division on a scale of 360° (RTE 165)
- Degree division on a scale of 360° with crank and nonius (RTU 165)
- Direct dividing via locking disc
- 24 positions (15° division)
- Three jaw chuck
- 7 locking disks for 2/3/4/6/8/12/24 divisions
- Including clamping disk with 3 grooves

RTE 165	335 6365		
RTU 165	335 4165		
Table diameter	mm	165	165
Construction height	mm	200	221
Width	mm	260	250
Length	mm	218	235
Centre height	mm	130	130
Clamping disks	mm	203	203
Passage	mm	36	36
Weight	kg	32.5	48
Direct indexing plate		Spacing of 24 (= 15°)	
Indirect indexing plate		Spacing of 2, 3, 4, 6, 8 and 12	
Spacing accuracy of the direct dividing equipment		45°	
Clamping option		Horizontal and vertical	
clamping surface		With scale of 360°	



Fig.: RTE 165



Fig.: RTU 165

Horizontal-vertical circular dividing tables

- Quality circular dividing tables made of high quality Meehanite cast
- Reliable and precise
- Precision bearing
- Stability even under heavy load
- Large spindle hole to clamp longer workpieces
- Quick-action dividing via locking discs for higher manufacturing speed for mass parts
- Hardened and ground screw
- Working table with 360° scaling
- 1 turn of the handwheel 4° rotation
- Scaling on the handwheel 2°
- Possible division via scaled handwheel with vernier
- Up to 150 pcs (RT 150) and 400 pcs (RT 200) different divisions with indirect dividing plates are available

RT 100

Circular dividing table 335 6110

RT 150

Circular dividing table 335 6150

Flange for lathe chucks 335 6154

Three jaw chuck Ø 130 mm centric 335 6100

RT 200

Circular dividing table 335 6200

Technical data	RT 100	RT 150	RT 200	
Centring cone	MT2	MT2	MT3	
Transmission ratio	90:1	90:1	90:1	
Disk size	Ø 110	Ø 150	Ø 210	
Construction height	mm	72	79	104
Length	mm	138	204	265
Width	mm	118	156	199
Centre height	mm	80	102	133
Slot width	mm	11	11	16
Number of grooves		3	4	4
Indirect dividing equipment	No	Yes	Yes	
Net weight	kg	9	12	30



Flange for lathe chucks

335 6254

Three jaw chuck Ø 165 mm

335 6225

Optional:
„CNC add-on kits MK RT1 and MK RT2 to control the horizontal vertical circular dividing tables“ on page <?>

Indirect dividing equipment

IT 150

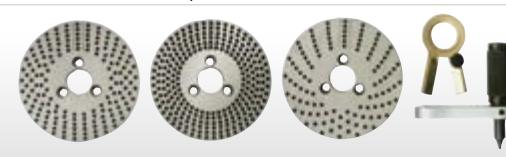
335 6152

- 3 pcs. Indexing plates . Sector arm
- Angle shear with spring steel plate
- Suitable for RT 100/RT 150

IT 200

335 6205

- 2 pcs. Indexing plates . Sector arm
- Angle shear with spring steel plate
- Suitable for RT 200/RTU 165



Height adjustable tailstock**Tailstock Rst 1** 335 6155

- Height of centres 72 - 108 mm
- suitable for RT 100, RT 150

Tailstock Rst 2 335 6157

- Height of centres 110 - 145 mm
- suitable for RT 200, RTE 165, RTU 165

**Universal compressed air tool clamping system**

- Incl. tool clamping device, cover, maintenance unit, crown gear, draw-in rod, switch cabinet, control element
- High achievable vacuum
- Short change times by one-hand operation
- Little weight due to optimised structure
- Safe locking due to toggle principle
- Precise guiding due to optimised geometry
- Little air consumption

ISO 30 335 2393 **719,00**

- For OPTIMILL BF30 Vario

Adapterplatte 335 2391 **61,00**

- For OPTIMILL BF30 Vario

ISO 40 335 2394 **719,00**

- For OPTIMILL MF 2 Vario / OPTI MF 4 Vario / BF 46 Vario

Adapter plate 335 2392 **81,00**

- For OPTIMILL BF 46 Vario

Factory assembly of clamping system 900 0490 **250,00**

(Note: In order for any work of installation: it can arise adaptation work)



Adapter plate

Thread cutting device M5 - M12/B16

335 2042

- Integrated quick return, immediately effective when changing the feed direction
- Sliding clutch 4-stage adjustable

Scope of delivery:

- 2 flexible collets
- 2 open-end wrenches
- Handle

Technical data

Notching path	4 mm
Free wheel	1.5 mm
Length compensation to tension	8.5 mm
Max. speed	1000 min ⁻¹
Transmission ration forward and return	1:1.75
Cutting range	M5 - M12
Clamping range	3.5-10
Length	B16 DIN 238
Length compensation to pressure	156 mm
Shaft seat	5 mm

- Allen key

**Universal dividing head TA 125**

335 6125

- Slewable from -10° to +90°
- Hardened and ground screw
- Precision taper roller bearing
- Hardened and ground main dividing plate (spacing of 24), in order to exactly divide to 15°
- Up to 300 different divisions with indirect dividing plates are available

Scope of delivery

- Height adjustable tailstock Rst1
- Centre point 60° / MT2
- Carrier attachment

Technical data

Transmission	40:1
Construction height	175 mm
Width with centre point	205 mm
Length	230 mm
Centre height	100 mm
Hole in the seat shaft (passage)	18 mm
Slot width	16 mm
Direct indexing plate (division)	15°
Indirect indexing plates (Hole on the pitch circle)	15; 16; 17; 18; 19; 20; 21; 23; 27; 29; 31; 33; 37; 39; 41; 43; 47
True running accuracy	0.015 mm
Net weight	12 kg

- Flange (Ø 140 mm, t = 12 mm) for carrier pin or lathe chuck assembly



Universal table feed

- Milling table feed
- Horizontal assembly (V99)
- Vertical assembly (V250)
- Infinitely variable speed adjustment and rapid feed
- Right-/left handed rotation
- 230 v, Overload protection and limit stop switch
- For self-assembly

OPTI V 99

OPTI V 250

335 2022

335 2029



Fig.: V 99



Fig.: V 250

Cross table KT

- Coolant channel
- Adjustable dovetail guide
- Adjustable handwheel scaling with a division of 0.05 mm

KT 120

335 6595

KT 179

335 6596

KT 180

335 6591

KT 210

335 6600

Technical data

KT120 **KT179** **KT 180** **KT210**

Length	mm	506	748	945	1065
Width	mm	400	483	483	555
Height	mm	140	148	169	200
T-slot size	mm	10	12	12	14
Table length	mm	400	500	700	730
Table width	mm	120	180	180	210
Load of cross table	kg	40	55	55	80
Pedestal width	mm	220	274	274	280
Pedestal length	mm	280	340	340	362
Travel X axis	mm	220	280	480	480
Travel Y axis	mm	165	175	175	210
Net weight	kg	22	32	49	84



Fig.: KT 180

Holding down clamp, kit of 2 pcs

- Adjustable clamping height
- Brass plate under clamping arm protects the material against damages

Table groove 14 mm/M 12

335 2031

- L x W x H: 115 x 42 x 39 mm;
- Height adjustment: 0 - 89 mm

Table groove 18 mm/M 16

335 2032

- L x W x H: 133 x 50 x 49 mm
- Height adjustment: 0 - 101 mm



Kit of parallel packing plates 20-pcs

335 4001

- For precision works for parallel mounting of workpieces on the machine, vices, on marking-on plates or machine tools
- Ground to very high precision of 0.01 mm
- Thickness 3 mm
- Length 150 mm
- Sizes 2 x 13 mm/2 x 16 mm/2 x 19 mm/2 x 22 mm/2 x 25 mm/2 x 28 mm/2 x 31 mm/2 x 35 mm/2 x 38 mm/2 x 41 mm



Kit of parallel packing plates

335 4000

- Hardness HRC 50 - 55
- Ground to very high precision of 0.01 mm
- 18-pieces; sizes from 5 x 16 x 100 up to 22 x 62 x 150
- Plastic case



Prism WP 30

335 2195

- Robust type to be used on machine tools
- Highly precise type
- Adjustable from 0° to 60° and from 0° to -30°
- Hardened and ground carbons steel
- Precision perpendicularity 0.005 mm
- Angular tolerance 0.01°
- Dimensions L x W x H: 75 x 25 x 32 mm



Universal coolant equipment

- Delivery height max. 2.5 m
- Delivery volume 8 l/min
- Tank capacity 11 l
- Tank size L x W x H: 370 x 245 x 170 mm
- Complete including tank, flexible tube, hose
- With switch-plug combination
- Magnetic anchoring
- For self-assembly

Universal coolant equipment 230 V/1 Ph

335 2002

Universal coolant equipment 400 V/3 Ph

335 2001



Coolant lubricant sprayer with magnetic base MMC1

335 6663

- Foot size L x W x H: 62 x 50 x 55.5 mm
- Magnetic stand holding force 75 kg
- Flexible hose
- Length of the coolant hose 500 mm



Coolant hose KMS 2

335 6660

- Two variable coolant hoses made of individual plastic elements
- Not electroconductive
- Magnetic stand holding force up to 50 kg
- Length of the coolant hoses 335 mm
- Flexible and stable
- Resistant against most solvents and chemicals
- Universally applicable on all machine tools



Universal machine base BF 16/BF20

Chip tray

- Dimensions L x W x H: 340 x 420 x 800 mm
- Weight: 35 kg



335 3000

335 2999

Steel base frame BF30 Vario / F40 E

335 3004

- Chip plates
- Solidity and weightiness provide for stability
- Dimensions L x W x H: 940 x 650 x 815 mm
- Weight: 85 kg

Steel base frame BF46 Vario/ BF46 TC

335 3005

- Chip plates
- Solidity and weightiness provide for stability
- Dimensions L x W x H: 765 x 765 x 860 mm
- Weight: 142 kg



Steel base MB 4 / MH28V

335 3006

- Chip plates
- Solidity and weightiness provide for stability
- Dimensions L x W x H: 625 x 415 x 750 mm
- Weight: 54 kg





Drilling machines

DRILLING MACHINE

V-belt machines

- Drilling 13/16/20/25/32 C3
- Radial Drilling 16/20 C5
- B17/B23/B26/B33Pro..... C7
- E17/E23/E26/E33 C9
- I 13 / I 15 /I 17 /I 20 C11
- I 12 / I 16.5 C13
- B16H/24H/28H/34H..... C15



Variable speed machines

- B16HV/24HV/28HV/34HV..... C17
- DH18V C19
- DH24BV/28BV/34BV C21
- DX13V/DX15V/DX17V C23
- B30BS C25



Gear machines

- B30VGM C27
- B40E/B40PTE C29
- DH26GT/28GS/32GS C31
- DH26GTV/28GSV/32GSV..... C33
- DH35G/DH45G/DH55G.....C35
- DH45V C37
- Drilling 45/45E C39
- Drilling 50 C41



Electr-magnetic base drill

- MBD19/25/38 C43
- Accessories C44



DRILLING MACHINE

钻 床 DRILLING 13/16/20/25/32



机床技术参数 /Specification



Drilling 16



Drilling 20

型号	Model	Drilling 13	Drilling 16	Drilling 20
产品编号	Code No.	3101300	3101600	3102000
加工范围	CAPACITY			
钻孔直径	Drilling capacity(max.)	Ø13mm	Ø16mm	Ø20mm
工作范围	WORKING RANGE			
套筒直径	Sleeve diameter	Ø40mm	Ø42mm	Ø47mm
套筒行程	Sleeve travel	50mm	60mm	80mm
主轴轴线至立柱表面距离	Distance spindle-column	104mm	126mm	169mm
主轴	SPINDLE HOLDING FIXTURE			
主轴锥度	Spindle holding fixture	B16	MT2	MT2
速度	SPEEDS			
主轴转速	Spindle speeds	580-2650rpm	220-2450rpm 660-2500rpm	210-2220rpm
转速级数	Number of steps	5 steps	12 or 5 steps	12 steps
工作台	DRILLING TABLE			
工作台尺寸(长×宽)	Table size(LxW)	160x160mm	200x195mm	300x300mm
T型槽尺寸	T-slot size	/	/	14mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	200mm	350mm	390mm
底座尺寸(长×宽)	Working surface stand(LxW)	200x314mm	355x235mm	455x270mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	290mm	524mm	640mm
电机	ELECTRIC SUPPLY			
电机功率	Motor	350W	450W	550W
外形及重量	DIMENSIONS AND WEIGHT			
包装尺寸(长×宽×高)	packing size(LxWxH)	445x345x255mm	700x440x230mm	820x490x300mm
净重/毛重	Net weight/Gross weight	15/17kg	27/29kg	47/51kg



优质、高效、高性价比

- 本产品荣获“CE”“EMC”认证
- 一般钻夹头或自紧钻夹头
- 高精度主轴 (MT4/MT3/MT2)
- 强功率电机
- 全面质量控制

Convincing arguments: quality, efficiency and price

- Machine approved "CE" "EMC"
- Normal drill chuck or quick-action drill chuck
- High precision spindle
- Big power motor
- Overall control

标准附件:

- 自紧式钻夹头 1- Ø13/B16
- 钻接杆

可选附件:

1. 中型、重型锥孔钻夹头
1-13/B16 or 3-16/B16
2. 莫氏变径套
MT4/MT3,MT4/MT2,MT3/MT2
3. 扁尾型莫氏钻接杆
MT4/B16,MT3/B16,MT2/B16
4. 可逆转丝锥夹头 M5-M12
5. 平口钳
BMS85 BMS100 BMS125
BMS150
6. 防护罩，急停开关

Standard Accessories:

- Keyless chuck 1- Ø13/B16
- Morse taper

Optional Accessories:

1. Middle heavy taper drill chuck
1-13/B16 or 3-16/B16
2. Morse reducing bushes
MT4/MT3,MT4/MT2,MT3/MT2
3. Morse taper with flat top
MT4/B16,MT3/B16,MT2/B16
4. Reversible tapering chuck M5-M12
5. Machine vice BMS85 BMS100
BMS125 BMS150
6. Drill chuck,emergency stop switch



Drilling 25



Drilling 32

机床技术参数 /Specification

型号	Model	Drilling 25	Drilling 32
产品编号	Code No.	3102500	3103200
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø25mm	Ø32mm
工作范围	WORKING RANGE		
套筒直径	Sleeve diameter	Ø52mm	Ø72mm
套筒行程	Sleeve travel	80mm	120mm
主轴轴线至立柱表面距离	Distance spindle-column	190mm	226mm
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle holding fixture	MT3	MT4
速度	SPEEDS		
主轴转速	Spindle speeds	210-2220rpm	150-2020rpm
转速级数	Number of steps	12 steps	9 steps
工作台	DRILLING TABLE		
工作台尺寸 (长X宽)	Table size(LxW)	270x270mm	364x364mm
T型槽尺寸	T-slot size	15mm	15mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	780mm	590mm
底座尺寸(长X宽)	Working surface stand(LxW)	500x300mm	625x372mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	1220mm	1177mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	550W	1100W
外形及重量	DIMENSIONS AND WEIGHT		
包装尺寸 (长×宽×高)	packing size(L×W×H)	1150x490x318mm	1460x640x340mm
净重/毛重	Net weight/Gross weight	60/63kg	135/140kg

细节展示 Details



- Highly smooth running due to aluminium pulleys and grounded multi tooth dog
- Toothed GATES quality V-belt for better power transmission
- V-belt covering with safety switch
- 铝皮带轮保证高速平滑运行,减少功率损失
- 高质量盖茨皮带带来更好的传动效果
- 皮带轮带安全开关防护



- Guaranteed true running accuracy better than 0.03 mm measured in the drilling spindle
- Drilling spindle with precision ball bearings
- High-quality quick-action drill chuck as standard
- 保证主轴跳动精度小于 0.03mm
- 主轴轴承使用高精度滚珠轴承
- 高质量快换钻夹头作为标准附件



- Long, ergonomically star grips with soft grips handles for safe working
- Drilling depth stop
- 人体操作的加长星形把手,采用软质手柄材料,更能带来安全操作
- 带钻削深度限位



- User-friendly safety switch for IP 54 with low-voltage release,
- Emergency-stop push button
- 用户友好操作的安全开关,符合IP54,带低压释放保护
- 带急停开关按钮

DRILLING MACHINE

台 钻 RADIAL DRILLING 16/20

优质、高效、高性价比

- 精加工铝皮带轮和精加工保证高速平滑运行
- 主轴带高精度滚珠轴承
- 高质量标准齿圈钻夹头
- Optimum高性价比
- 稳定可靠的性能和品质

Convincing arguments: quality, efficiency and price

- High smooth running due to aluminium pulleys and grounded multi tooth dog
- Drilling spindle with precision ball bearings
- High-quality gear rim drill chuck as standard
- Optimum price/performance ratio
- Stable value

高质量皮带轮

- 齿形
 - 理想的传动比
- Quality V-belts
- Toothed
 - Considerably higher transmission of force

安全开关

- 易操作
 - 防护等级IP54
 - 低压释放保护
- Safety switch
- Easy-to-operate
 - Protection class IP 54
 - Undervoltage release

主轴

- 保证主轴跳动精度小于0.03mm
 - 主轴轴承使用高精度滚珠轴承
- Drilling spindle
- Guaranteed true running accuracy better than 0.03 mm measured in the drilling spindle
 - Precision ball bearings

钻夹头

- 最大可能地保护用户
 - 高度可调
 - 带微动
- Drill chuck
- Best possible protection of the user
 - Height-adjustable
 - Micro switch

工作台

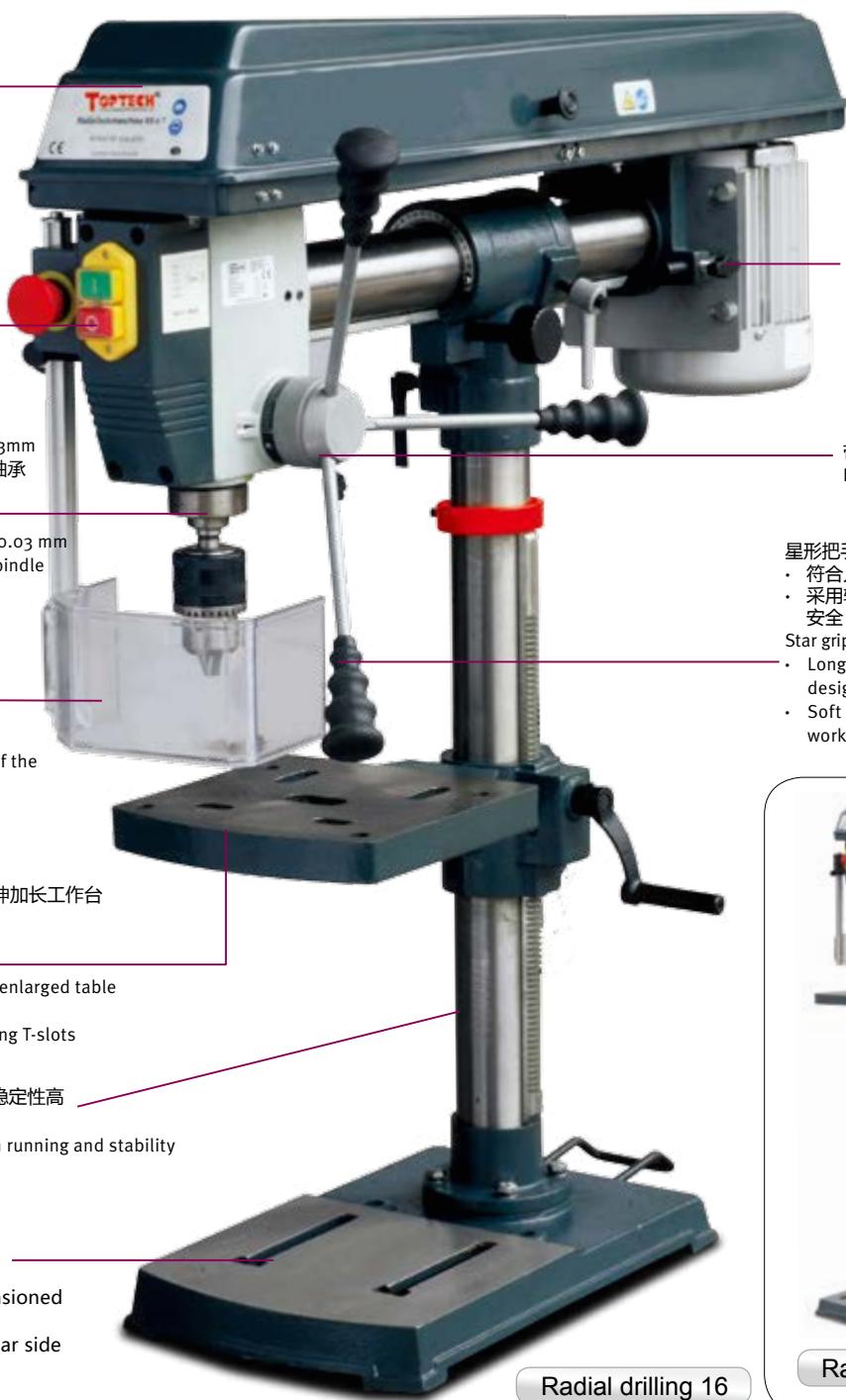
- RB6T: 带安装孔确保可延伸加长工作台
 - RB8S: 带横向运动T型槽
- Working table
- Precisely worked
 - RB 6T: Mounting holes for enlarged table support)
 - RB 8S: Transversally running T-slots

钢立柱

- 运行平滑，稳定性高
- Steel column
- High smooth running and stability

底座

- 大尺寸、精加工
 - 带T型槽
 - 背面带高筋
- Base plate
- Solid and largely dimensioned
 - slots for T-slots
 - Heavily ribbed at the rear side



Radial drilling 16



Radial drilling 20

机床技术参数 /Specification

型号	Model	Radial drilling 16	Radial drilling 20
产品编号	Code No.	3701600	3702000
加工范围	CAPACITY		
钻孔直径	Drilling capacity(max.)	Ø16mm	Ø16mm
工作范围	WORKING RANGE		
套筒直径	Sleeve diameter	Ø47	Ø47
套筒行程	Sleeve travel	100mm	100mm
主轴中心线至立柱表面距离	Distance spindle-column	400mm	400mm
主轴	SPINDLE HOLDING FIXTURE		
主轴锥度	Spindle holding fixture	MT2	MT2
机头可旋转角度	Head rotation	±45°	±45°
速度	SPEEDS		
主轴转速	Spindle speeds	470-3030rpm	390-3000rpm
转速级数	Number of steps	5 steps	5 steps
工作台	DRILLING TABLE		
工作台尺寸	Table size(L×W)	225x230mm	262x262mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	470mm	1075mm
底座尺寸	Working surface stand(L×W)	430x260mm	600x350mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	550mm	1260mm
电机	ELECTRIC SUPPLY		
电机功率	Motor	230V/ 50Hz 550W	230V/ 50Hz 550W
外形尺寸及重量	DIMENSIONS AND WEIGHT		
外形尺寸	size(L×W×H)	820x290x930mm	820x350x1640mm
包装尺寸	packing size(L×W×H)	932x407x323mm	1155x500x295mm
净重/毛重	Net weight/Gross weight	45/47.5kg	63/66kg

标准附件

- 齿轮钻夹头 (1-16mm) B16
- 莫氏锥度 MT2-B16
- Standard accessories
- Gear rim drill chuck (1-16 mm) B 16
- Morse taper MT 2 - B 16

可选附件

1. 麻花钻套装 MT2
2. 夹紧工具 SPW12
3. 攻丝夹头 M5-M12
4. 平口钳 MSO100/MSO75

OPTIONAL EQUIPMENT

1. Twist drill kit HSS MT2
2. Clamping tool kit SPW 12
3. Tapping chuck M5-M12
4. Machine Vice MSO100/MSO75



细节展示 Details

- 机头可倾斜 ± 45°
- The drill head can be inclined by ± 45°

- 移动机头改变厚度
- Variable throat by shifting the drilling head

- 工作台可倾斜 ± 45°
- The working table can be inclined by ± 45°



DRILL PRESS PRO LINE

钻 床 B 17/B 23/B 26/B 33 Pro



B17 Pro

B23 Pro

B26 Pro

B33 Pro



Belt drive

- High running smoothness thanks to ground multi-toothed follower
- Best power transmission due to aluminium belt pulleys in connection with toothed GATES quality V-belt

皮带驱动

- 经打磨的多齿耦合器，保证高速运转平滑运行
- 铝皮带轮配上高品质盖茨皮带带来最佳的动力传输



- Guaranteed true running accuracy ≤ 0.02 mm measured in the drilling spindle
- Drilling spindle with precision ball bearings
- High-quality quick-action drill chuck as
- Largely dimensioned, height adjustable protective screen with safety switch
- 主轴同心度小于0.02 mm
- 主轴带有精密球形滚珠轴承
- 带高质量快速夹紧钻夹头
- 大尺寸、高度可调节、带安全开关的防护罩

机床技术参数 /Specification

产品型号	Type	B 17Pro	B 23Pro
货号	Code No.	3111700	3112302/3112303
机器参数	Machine datas		
电气参数	Electrical connection	230 V / 1 Ph ~50 Hz	230 V/1 Ph or 400 V/3 Ph
电机功率	Motor power	500 W	750 W
钻销直径	Drilling capacity		
钢件钻销直径	Drilling capacity in steel (S235JR)	Ø 16 mm	Ø 25 mm
钢件持续钻销直径	Continuous drilling capacity in steel	Ø 12 mm	Ø 20 mm
主轴锥度	Spindle seat		
主轴行程	Spindle stroke	65 mm	80 mm
主轴锥度	Spindle seat	MT 2	MT 2
主轴轴线至立柱管表面距离	Throat	152 mm	180 mm
转速	Speeds		
主轴转速	Spindle speeds	500-2520 rpm	200-2440 rpm
档位数	Number of steps	5 steps	12 steps
工作台	Drilling table		
工作台尺寸	Work surface table length x width	235 x 220 mm	280 x 245 mm
T型槽尺寸	T-slot size	12 mm	12 mm
工作台回转角度	Drilling table slewable/turnable	± 45° / 360°	± 45° / 360°
主轴端面至工作台表面最大距离	Distance spindle - table (max.)	325 mm	425 mm
底座尺寸	Work surface stand length x width	220 x 230 mm	240 x 250 mm
主轴端面至底座表面距离	Distance spindle - stand (max.)	530 mm	618 mm
尺寸	Dimensions		
立柱直径	Column diameter	Ø 60 mm	Ø 73 mm
长宽高	Length x width x height	600 x 260 x 860 mm	654 x 330 x 1012 mm
重量	Total weight	39 kg	66 kg

产品型号	Type	B 26Pro	B 33Pro
货号	Code No.	3112600	3113300
机器参数	Machine datas		
电气参数	Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
电机功率	Motor power	750 W	1.1 kW
钻销直径	Drilling capacity		
钢件钻销直径	Drilling capacity in steel (S235JR)	Ø 25 mm	Ø 30 mm
钢件持续钻销直径	Continuous drilling capacity in steel	Ø 20 mm	Ø 25 mm
主轴锥度	Spindle seat		
主轴行程	Spindle stroke	85 mm	120 mm
主轴锥度	Spindle seat	MT 3	MT 4
主轴轴线至立柱管表面距离	Throat	210 mm	254 mm
转速	Speeds		
主轴转速	Spindle speeds	200-2440 rpm	120-1810 rpm
档位数	Number of steps	12 steps	9 steps
工作台	Drilling table		
工作台尺寸	Work surface table length x width	330 x 290 mm	475 x 425 mm
T型槽尺寸	T-slot size	14 mm	14 mm
工作台回转角度	Drilling table slewable/turnable	± 45° / 360°	± 45° / 360°
主轴端面至工作台表面最大距离	Distance spindle - table (max.)	720 mm	695 mm
底座尺寸	Work surface stand length x width	385 x 260 mm	410 x 270 mm
主轴端面至底座表面距离	Distance spindle - stand (max.)	1'230 mm	1'180 mm
尺寸	Dimensions		
立柱直径	Column diameter	Ø 80 mm	Ø 92 mm
长宽高	Length x width x height	700 x 350 x 1'670 mm	860 x 480 x 1'720 mm
重量	Total weight	82 kg	135 kg

DRILL PRESS E LINE

钻 床 € 17/€ 23/€ 26/€ 33

优质、高效与性价比：

- 保证主轴同心度，主轴套筒内测得的数据为小于0.02mm
- 主轴带高精度滚珠轴承
- 标准提供的ROHM快换钻夹头
- 钻夹头防护罩尺寸大、高度可调节并带安全开关，有利防护铁屑飞溅和零件滑脱带来的危险
- 精加工铝皮带轮和精加工保证高速平滑运行（E 23）
- V型带可获得理想的传动比，减少功率损失
- V型皮带装有安全开关
- 精加工带对角T型槽的工作台

- 通过齿条调节工作台高度
- 带钻削深度限位
- 工作台可以倾斜45度，自由回转360度
- 大尺寸、精加工底座，带T型槽和背面有加强筋（E 33 T型槽）
- 一体式铸铝星形升降手柄带软式把手
- 安全开关（符合IP54）易操作，带低压释放和急停按钮
- 400V电压外加正反转开关
- 运行平滑稳定，电机功率强
- 床身厚重结实

Convincing arguments: quality, efficiency and price

- . Guaranteed true running accuracy of less than 0.02 drilling spindle sleeve
- . Drilling spindle with precision ball bearings
- . ROHM quick-action drill chuck supplied as standard mm measured in the
- . Largely dimensioned, height-adjustable screening grid with safety switch
- . High smoothness due to aluminium V-belt pulleys and grinded multitooth dog (from E 23)
- . Considerably higher power transmission due to toothed quality V-belts
- . V-belt covering with safety switch
- . Precisely machined work table with diagonally running T-slots

- . Height adjustment of the drilling table via toothed rack
- . Drill depth stop
- . Worktable can be inclined by $\pm 45^\circ$ and slewed by 360°
- . Solid, largely dimensioned base plate with slots, heavily ribbed at the rear side (for E 33 T-slots)
- . One-piece star grip made of diecast aluminium with soft grip handle
- . Easy-to-operate safety switch (IP 54compliant) with low-voltage release and emergency-stop pushbutton
- . 400 volt types additionally with right-/left-handed rotation
- . Smooth running and powerful electric motors
- . Heavy construction of the whole machine



E 17

E 23

E 26

E 33

机床技术参数 /Specification

型号	Model	E 17	E 23	E 26	E 33
货号	Item No	3101700	3102302 (230V)	3102600	3103300
货号	Item No		3102303 (400V)		
电器总容量	Electrical connection		750W 230V/400V~50Hz (400V)		
电机功率	Motor	500W 230V~50Hz		750W 400V~50Hz	1.1KW 400V~50Hz
钻孔直径	Drilling capacity				
钻孔直径	Drilling capacity in steel (St. 37)	Ø16mm	Ø25mm	Ø25mm	Ø30mm
连续钻孔直径	Continuous drilling cap. steel	Ø12mm	Ø20mm	Ø20mm	Ø25mm
主轴	Spindle seat				
主轴锥度	Spindle seat	MT2	MT2	MT3	MT4
主轴套筒直径	Spindle sleeve stroke	Ø65mm	Ø80mm	Ø85mm	Ø120mm
主轴套筒行程	Throat	152mm	180mm	210mm	254mm
转速	Speeds				
主轴转速	Spindle speeds	500-2520rpm	200-2440rpm	200-2440rpm	120-1810rpm
转速级数	Number of steps	5 steps	12 steps	12 steps	9 steps
工作台	Drilling table				
工作台尺寸	Table size Length x width	235x220mm	280x250mm	330x290mm	475x425mm
T型槽	T-slot size	12mm	12mm	14mm	14mm
工作台倾斜角度	Drilling table inclinable	±45°	±45°	±45°	±45°
工作台旋转角度	Drilling table slewable	360°	360°	360°	360°
主轴端面至工作台面最大距离	Distance spindle - table (max.)	325mm	360mm	720mm	695mm
主轴端面至底座表面最大距离	Distance spindle - stand (max.)	530mm	610mm	1230mm	1180mm
体积	Dimensions				
立柱尺寸	Column diameter	60mm	73mm	80mm	92mm
外形尺寸	Length x width x height	600x260x860mm	650x320x1010mm	700x350x1670mm	860x480x1720mm
包装尺寸	packing size(LxWxH)	680x460x290mm	815x530x325mm	1430x545x290mm	1435x645x325mm
净重/毛重	Net weight/Gross weight	36.5/40 kg	63.5/66 kg	81/85 kg	132/140 kg

细节展示 Details



- Guaranteed true running accuracy of less than 0.02 mm measured in the drilling spindle
- Drilling spindle with precision ball bearings
- High-quality quick-action drill chuck supplied as standard
- Largely dimensioned, height-adjustable screening grid with safety switch (optional)
- 保证主轴跳动精度小于 0.02mm
- 主轴轴承使用高精度滚珠轴承
- 高质量快换钻夹头作为标准附件
- 钻夹头防护罩尺寸大、高度可调节并带安全开关，有利防护铁屑飞溅和零件滑脱带来的危险（可选）



- Aluminium V-belt pulleys
- Smooth running
- Ground multitooth dog (E 23)
- Considerably better power transmission due to the quality toothed V-belt
- V-belt covering with safety switch (optional)
- 铝皮带轮
- 保证高速平滑运行，减少功率损失
- 高质量盖茨皮带带来更好的传动效果
- 皮带轮带安全开关防护（可选）

DRILL PRESS I LINE

钻 床 I 13/ I 15/ I 17/ I 20

优质、高效与性价比：

- 厚重结实铸铁制造
- 适用于重型家庭作坊和维修车间及轻工业
- 转速可根据不同加工工件材质（钢，铸铁，铝，木质和塑料）可调
- DRO 数显表用于显示主轴钻深和转速
- 2只按钮开关（带急停开关）
- 更长的主轴行程，I 13-- 3-1/4" . I 15-17" --5" . I 20 --6"

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Heavy type for home shops, maintenance shops and light industrial applications
- Spindle speeds are adjustable for drilling steel, cast iron, aluminum wood and plastic
- DRO for spindle depth and speed
- 2 button switch with Emergency Off Paddle
- Longer spindle travel, I 13--3-1/4". I 15-17"--5". I 20--6"



- DRO数显表用于显示主轴钻深和转速
- DRO for spindle depth and speed



I 13

I 15



- 更长的主轴行程，
I 13--3-1/4". I 15-17" --5". I 20 --6"
- Longer spindle travel, I 13--3-1/4". I 15-17"--5". I 20--6"



I 20 F

机床技术参数 /Specification

型号	Type	I 13	I 15
货号	Item No.	3101390	3101590
电机参数	Motor	120V 60Hz 1/3HP	120/240V 60hz 1/2HP
电机转速	Motor speed	1725 RPM	1725 RPM
主轴转速	Spindle speed	244-3386 RPM 16steps	138-3476RPM 16steps
转速范围	Range of RPM	244-3386 RPM	138-3476 RPM
钻夹头型号	Chuck Size	1-13mm (1/2")	1-16mm (5/8")
主轴锥度	Spindle Taper	JT33	MT2
主轴行程	Spindle Travel	3 1/4"	5"
钻孔直径(铸铁)	Drilling Capacity - Cast Iron	1/2"	5/8"
工作台尺寸	Table Size	8-5/8 x 9-7/16"	11-1/2 x 13"
工作台工作面	Table Work surface (D x W)	8-5/8 x 9-7/16"	11-1/2 x 13"
工作台倾斜	Table Tilt	±45°	±45°
工作台回转	Table Swivel	No	360°
T型槽	T-Slot	14mm	14mm
主轴端到工作台表面距离	Distance Spindle to Table	1-1/2 to 16-3/4"	1-5/8" to / 13"
主轴轴线到立柱表面距离	Spindle to column distance	6-5/8"	7-1/2"
立柱直径	Column Diameter	2.34"	2.87"
底座尺寸	Base size (W x D)	9-3/4 x 16-1/2"	10-5/8 x 18-1/8"
底座工作面	Base Work Surface	8-3/8 x 9-3/8"	9-3/8 x 9-3/8"
主轴端到底座表面距离	Max Distance Spindle to Base	22-5/16"	23-1/8"
总高度	Overall Height	38-7/8"	43"
净重	Net Weight	113 lbs.	174 lbs.
毛重	Shipping Weight	123 lbs.	185 lbs.

型号	Type	I 15 F	I 17 F	I 20 F
货号	Item No.	3801590	3801790	3802090
电机参数	Motor	120/240V 60hz 1/2HP	120/240V 60hz 1HP	120/240V 60hz 1-1/2HP
电机转速	Motor speed	1725 RPM	1725 RPM	1725 RPM
主轴转速	Spindle speed	138-3476RPM 16steps	138-3476RPM 16steps	120-3605 RPM 16steps
转速范围	Range of RPM	138-3476 RPM	138-3476 RPM	120-3605 RPM
钻夹头型号	Chuck Size	1-16mm (5/8")	1-16mm (5/8")	5-20mm (3/4")
主轴锥度	Spindle Taper	MT2	MT2	MT3
主轴行程	Spindle Travel	5"	5"	6"
钻孔直径(铸铁)	Drilling Capacity - Cast Iron	5/8"	5/8"	1"
工作台尺寸	Table Size	11-1/2 x 13"	11-1/2 x 13"	16-5/8 x 18-5/8"
工作台工作面	Table Work surface (D x W)	11-1/2 x 13"	11-1/2 x 13"	16-5/8 x 18-5/8"
工作台倾斜	Table Tilt	±45°	±45°	±45°
工作台回转	Table Swivel	360°	360°	No
T型槽	T-Slot	14mm	14mm	14mm
主轴端到工作台表面距离	Distance Spindle to Table	3-1/4 to 26-1/4"	1-1/2 to 25"	4-3/4 to 26-3/8"
主轴轴线到立柱表面距离	Spindle to column distance	7-1/2"	81/2"	10"
立柱直径	Column Diameter	2.87"	3.15"	3.62"
底座尺寸	Base size (W x D)	12-3/4 x 19-3/4"	12-3/4 x 19-3/4"	17-5/8 x 22-1/2"
底座工作面	Base Work Surface	10-1/4 x 11"	10-1/4 x 11"	13 x 16"
主轴端到底座表面距离	Max Distance Spindle to Base	46-3/16"	45"	45-3/8"
总高度	Overall Height	66-1/2"	65-1/4"	69-3/4"
净重	Net Weight	193 lbs.	206 lbs.	336 lbs.
毛重	Shipping Weight	204 lbs.	216 lbs.	352 lbs.

WOODWORKING DRILL

木工钻 | I 12 / | I 16.5



优质、高效与性价比：

- 强功率电机
- 机械式无级调速
- 钻孔带十字镭射灯定位
- 带主轴转速显示及套筒行程显示（带公英制转换）
- 可调整的钻削深度限位
- 工作台沿齿条可上下移动
- 工作台可带可调位靠栅

Convincing arguments: quality, efficiency and price

- Strong power motor
- Mechanical variable speed
- Drilling hole with cross laser-light for positioning
- Have the display showing spindle speed and sleeve travel, reversible between metric and inch
- Adjustable drilling depth stop
- Height adjustment of the drilling table via toothed rack
- Table with adjustable support



I 12



I 16.5

机床技术参数 /Specification

型号	Model	I 12	I 16.5
货号	Item No	3101290	3101690
电压参数	Electrical connection (60Hz)	120V	120V
电机功率	Motor power	2/3HP	3/4HP
主轴	Spindle seat		
主轴锥度	Spindle taper	JT33	MT2
主轴行程	Spindle stroke	60mm	60mm
套筒直径	Quill Diameter	1-9/16"	2.05"
钻夹头尺寸	Chuck Size	1-13mm (1/2")	1-16mm (5/8")
钻孔能力铸件	Drilling capacity	5/8"	5/8"
转速	Speeds		
主轴转速	Spindle speeds	530-3100RPM	500-3500RPM
工作台	Drilling table		
工作台尺寸	Drilling table size length x width	9-1/2" x 9-1/2""	14" x 14"
工作台T型槽宽度	T-slot width	14mm	14mm
工作台回转角度	Drilling table turnable	45°	45°
主轴端到工作台距离	Drill chuck -drilling table	16-1/4"	29-1/8"
底座	Machine foot		
底座尺寸	Stand work surface L x W	10-1/2" x 16"	11.22" x 19.6"
底座加工面尺寸	Base Work Surface	9 x 8-5/8"	15-1/8 x 10-1/4"
主轴端到底座距离	Distance drill chuck - machine foot	23"	48-1/2"
尺寸	Dimensions		
立柱直径	Column diameter	2.56"	3.15"
包装尺寸	Packing size	900×470×330mm	1380×650×270mm
净重/毛重	N.W./G.W.	42/47Kg	82/90Kg

DRILL PRESS H LINE

钻 床 B16H/B24H/B28H/B34H

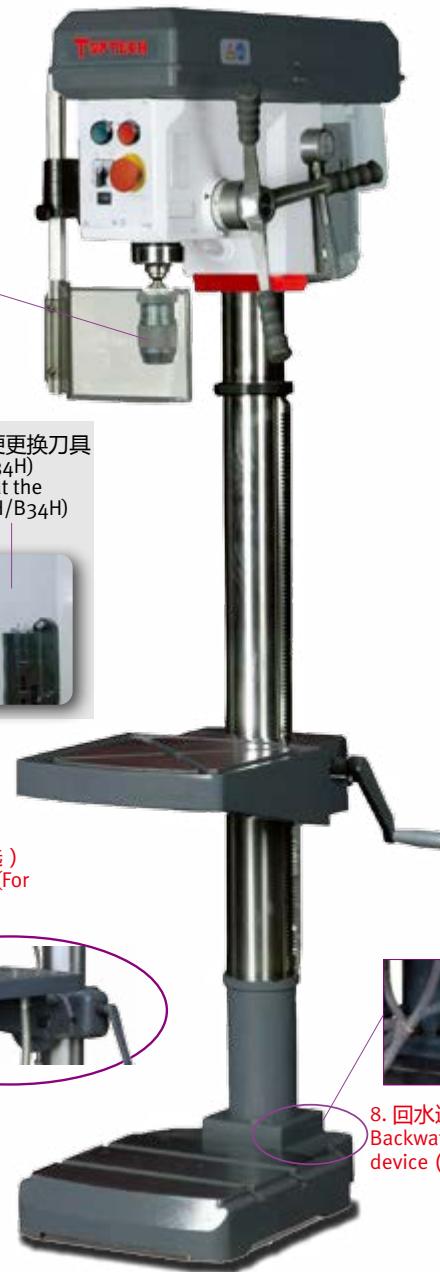


1. 自紧式钻夹头可选
Keyless chuck Optional

- 快换退刀可方便更换刀具
(仅限 B28H/B34H)
- Easy for take out the tools(only B28H/B34H)



. 回转型工作台 (可选)
. Swivel working table(For optional)



8. 回水过滤装置 (可选)
Backwater filtration device (for optional)

可选附件

1. 自紧式钻夹头 1-16mm/B16
2. 变径套 MT3/MT2
3. 攻丝夹头 M5-M12(B24H/B28H/B34H)
4. 麻花钻套装 1-13mm/25PCS
5. 莫氏锥柄钻头套头 MT2/9PCS 14.5-30mm MT3/9PCS 14.5-30mm
6. 机用平口钳 TQ100 (B16H/B24H) TQ140(B28H/B34H)
7. 冷却装置
8. 回水过滤装置 (B28H/B34H)

OPTIONAL EQUIPMENT

1. Keyless chuck 1-16mm/B16
2. Reduction bush MT3/MT2
3. Threading tapping chuck M5-M12(B24H/B28H/B34H)
4. Twist drill bit set 1-13mm/25PCS
5. Morse taper drill bit set MT2/9PCS 14.5-30mm MT3/9PCS 14.5-30mm
6. Drilling vice TQ100 (B16H/B24H) TQ140(B28H/B34H)
7. Coolant system
8. Backwater filtration device (B28H/B34H)





标准附件

- 钻接杆 MT2/B16(B24H)
MT3/B16(B28H) MT3/B16(B34H)
- 钻夹头 3-16mm/B16

Standard accessories

- Drill chuck taper MT2/B16(B24H)
MT3/B16(B28H) MT3/B16(B34H)
- Drill chuck 3-16mm/B16

机床技术参数 /Specification

型号	Model	B16H	B24H	B28H	B34H
产品编号	Code No.	3201600	3202400	3202800	3203400
电压	Electrical connection	400 V / 3 Ph ~50 Hz	230V/1Ph - 400V/3Ph	400 V/3 Ph ~50 Hz	400 V/3 Ph ~50 Hz
加工范围	CAPACITY				
钻孔直径	Drilling capacity (max.)	ø16mm	ø24mm	ø28mm	ø34mm
工作范围	WORKING RANGE				
套筒直径	Sleeve diameter	ø47mm	ø47mm	ø52mm	ø68mm
套筒行程	Sleeve travel	65mm	85mm	107mm	160mm
主轴	SPINDLE HOLDING FIXTURE				
主轴锥度	Spindle holding fixture	MT2	MT2	MT3	MT4
主轴中心线至立柱表面距离	Distance spindle-column	132.5mm	164mm	200mm	285.5mm
速度	SPEEDS				
主轴转速	Spindle speeds	450-3500rpm	350-4000rpm	260-4075rpm	145-4800rpm
转速级数	Number of steps	5 steps	7steps	16steps	9x2steps
工作台	DRILLING TABLE				
工作台尺寸 (长×宽)	Table size(L×W)	230×245mm	280×300mm	340×360mm	426×400mm
T型槽尺寸	T-slot size	12mm	14mm	14mm	14mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	370mm	445mm	927mm	790mm
底座尺寸(长×宽)	Working surface stand(L×W)	260×362mm	280x264mm	364x320mm	388x370mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	485mm	595mm	1282mm	1025mm
电机	ELECTRIC SUPPLY				
电机功率	Motor	550W	850W	850W	2.2/1.5KW
外形尺寸及重量	DIMENSIONS AND WEIGHT				
外形尺寸	size(L×W×H)	541×370×848mm	665×435×1000mm	715×450×1720mm	918×585×1895mm
包装尺寸	packing size(L×W×H)	600×360×1000mm	760×440×1170mm	770×500×1940mm	965×600×2140mm
净重/毛重	Net weight/Gross weight	55/70kg	92/116kg	142/178kg	260/313kg

VARIABLE SPEED DRILLING MACHINE

无级变速钻床 B16HV/B24HV/B28HV/B34HV

B 34 H Variable

Operating mode "Auto"

- In the automatic mode, the engine will start automatically upon lifting the lever and stops in the initial position. This way, it is not necessary to press the push button Start and Stop for repeated drilling tasks



Operating mode "Threading"

- The motor is being activated by moving the star grip downward. The turning direction is changed by pressing the end switch on the adjustable drilling depth stop

B34H Variable

操作模式 “自动”

在这种自动模式下，只有一提升手柄，机器就会自动启动，并且停在初始位置。这种方式下，没有必要按按钮启动和停止进行重复钻削工作。

操作模式 “攻丝”

将星形把手向下移动的时候激活电机。按动可调钻深限位上的终端开关可以改变转动方向。



- 自紧式钻夹头可选
Keyless chuck
Optional

- 回水过滤装置
(可选)
Backwater filtration device
(for optional)



B28HV

B34H Variable

操作模式 “自动”

在这种自动模式下，只有一提升手柄，机器就会自动启动，并且停在初始位置。这种方式下，没有必要按按钮启动和停止进行重复钻削工作。

操作模式 “攻丝”

将星形把手向下移动的时候激活电机。按动可调钻深限位上的终端开关可以改变转动方向。

- 内置工作灯
Halogen lamp

主轴保护

- 带微型开关、高度可调的钻夹头防护罩
Spindle protection with micro switch and highly adjustable chuck cover

钻削工作台

- 大尺寸、精加工
Large
dimensioned,solid and precisely machined
- 带横向运动 T型槽
Transversally running T-slot
- 背面加强筋
Heavily ribbed at the backside
- 通过齿条调节高度
Height-adjustable via toothed rack
- 360° 旋转
Rotation of 360° through its own axis and about the upright

底座

- 带 T型槽
Solid with T-slots
- 精加工
Precisely machined
- 工作台转向一边即可加工超高尺寸工件
May be used for extra high work pieces with the work table slewed to one side

- 主轴套筒进给
Spindle sleeve feed
- 可攻丝
Tapping and threading

- 强力、厚壁的铸铁立柱
Casting upright thick walled; for a high power admission and stability

- 带有冷却箱的冷却装置
Coolant equipment and coolant tank

B34HV

标准附件

- 一体式钻夹头 3-16mm/B16
- 自紧钻夹头 1-16mm/B16
- 大尺寸防护罩
- 冷却装置
- Standard accessories
- Direct quick-action drill chuck 3-16mm/B16
- Keyless chuck 1-16mm/B16
- Largely dimensioned chuck cover
- Coolant system

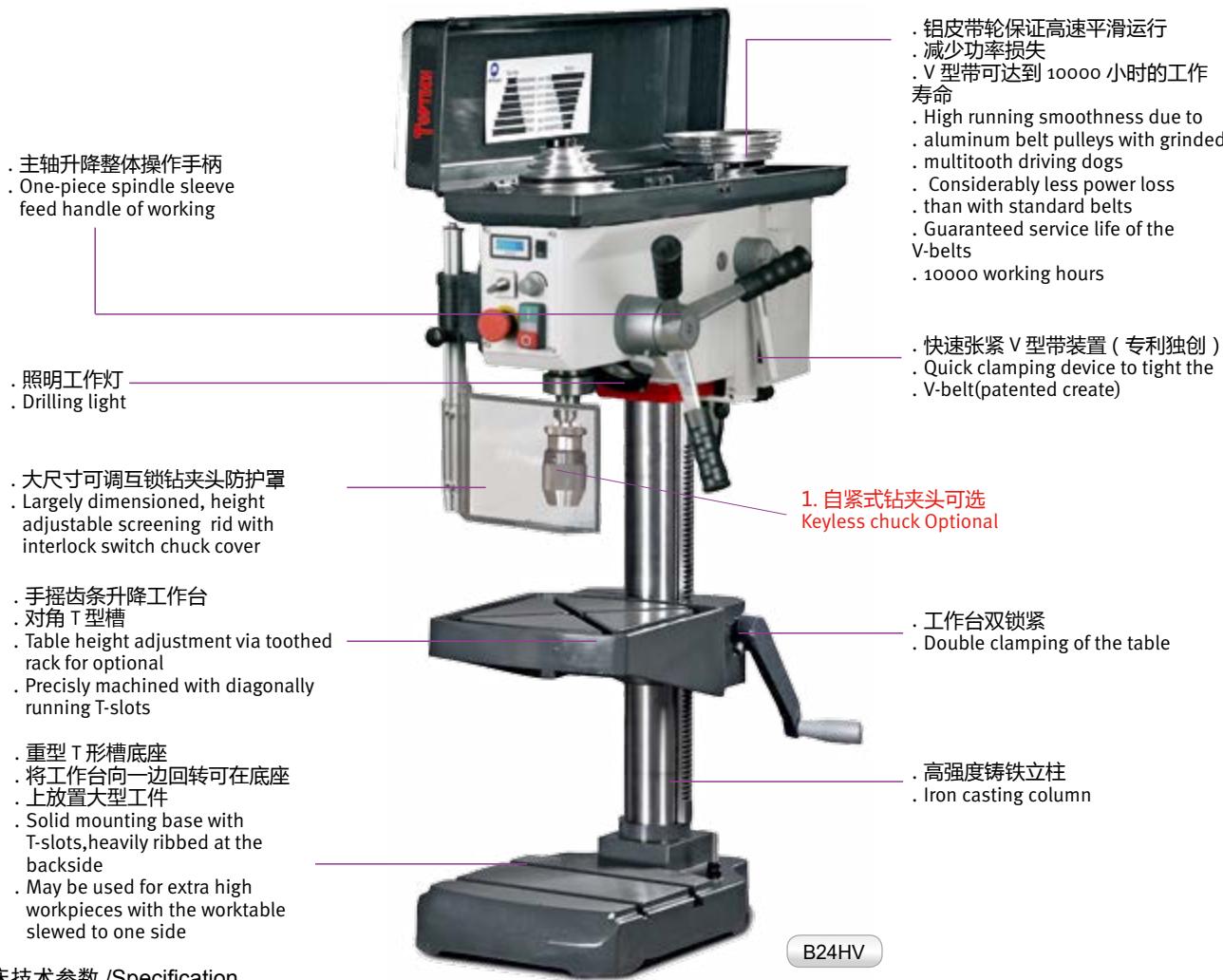
可选附件

- 变径套 MT3/MT2 (B28HV/B34HV)
MT4/MT3 (B34HV)
- 钻接杆 MT2/B16 MT3/B16 MT4/B16
- 攻丝夹头 M5-M12
- 麻花钻套装 1-13mm/25PCS
- 莫氏锥柄钻头套头 MT2/9PCS 14.5-30mm
MT3/9PCS 14.5-30mm
- 回水过滤装置 (B28HV/B34HV)



OPTIONAL EQUIPMENT

- 减速套 MT3/MT2 (B28HV/B34HV)
MT4/MT3 (B34HV)
- 钻接杆 MT2/B16 MT3/B16 MT4/B16
- 攻丝夹头 M5-M12
- 麻花钻套装 1-13mm/25PCS
- 莫氏锥柄钻头套头 MT2/9PCS 14.5-30mm
MT3/9PCS 14.5-30mm
- 回水过滤装置 (B28HV/B34HV)



机床技术参数 /Specification

型号	Model	B16HV	B24HV	B28HV	B34HV
产品编号	Code No.	3401600	3402400	3402800	3403400
电压	Electrical connection	230 V / 1 Ph ~50 Hz			
加工范围	CAPACITY				
钻孔直径	Drilling capacity (max.)	Ø16mm	Ø24mm	Ø28mm	Ø34mm
工作范围	WORKING RANGE				
套筒直径	Sleeve diameter	Ø47mm	Ø47mm	Ø52mm	Ø68mm
套筒行程	Sleeve travel	65mm	85mm	107mm	160mm
主轴	SPINDLE HOLDING FIXTURE				
主轴锥度	Spindle holding fixture	MT2	MT2	MT3	MT4
主轴中心线至立柱表面距离	Distance spindle-column	132.5mm	164mm	200mm	285.5mm
速度	SPEEDS				
主轴转速	Spindle speeds	90-6000rpm	100-5950rpm	35-5600rpm	40-5000rpm
转速级数	Number of steps	5 steps	4steps	12steps	9 steps
工作台	DRILLING TABLE				
工作台尺寸(长×宽)	Table size(L×W)	230×245mm	300×280mm	358×340mm	426×400mm
T型槽尺寸	T-slot size	12mm	14mm	14mm	14mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	370mm	445mm	927mm	790mm
底座尺寸(长×宽)	Working surface stand(L×W)	260×362mm	280×264mm	364×320mm	388×390mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	485mm	595mm	1282mm	1025mm
电机	ELECTRIC SUPPLY				
电机功率	Motor	1.5KW / 230V/50Hz	1.5KW/230V/50Hz	1.5KW/230V/50Hz	2.2KW / 230V/50Hz
外形尺寸及重量	DIMENSIONS AND WEIGHT				
外形尺寸(长×宽×高)	size(L×W×H)	550×370×850mm	665×435×1000mm	705×475×1755mm	918×595×1930mm
包装尺寸(长×宽×高)	packing size(L×W×H)	600×360×1000mm	755×440×1175mm	765×500×1940mm	970×600×2140mm
净重/毛重	Net weight/Gross weight	67/82kg	96/122kg	166/202kg	275/328kg

VARIABLE SPEED DRILLING MACHINE

NEW

无级变速钻床 DH 18V

优质、高效、高性价比

- 机械方面，更换了原有的齿轴升降部件，采用了新型的刻度圈限位结构—运用单向滚针轴承来进行限位，省去了原有的繁琐结构
- 重新设计了升降手柄，外形新颖，简单实用
- 电器方面，采用了高度集成的薄膜开关板，使得操作更加方便，替换了原有的控制原件，减少了故障率，更加可靠
- 功能增加了深度显示、钻孔深度调控以及攻丝功能
- 升级了电器控制箱，通过了EMC认证，更加安全可靠

Convincing arguments: quality, efficiency and price

- Cancel the original part of gear shaft up & down, but use now new structure of graduated ring for limit (to limit with one-way needle bearing instead of original complicated structure)
- New-designed the up & down handle is more nice and more easy for operation
- Highly-integrated touch panel is more convenient for operation and instead of original control components so reduce the failure rate which is more reliable
- Have additional function (such as depth display, drilling-depth adjust and tapping)
- Use the updated electric-cabinet and pass the EMC test already which is more safety and reliable

皮带驱动

- 铝皮带轮和盖茨皮带保证功率强劲
- 抛光齿轮带来平顺运转

Belt drive

- Best possible force transmission thanks to aluminium pulleys in combination with GATES quality toothed belts
- Smooth action thanks to polished multi-tooth carrier

带OLED显示屏，清晰可见读数

- 主轴转速
- 深度显示(目标深度和实际深度)

Easily readable display field with OLED display

- Spindle speed
- Depth display (target/actual)



钻削工作台

- 精加工
- 带横向运动T型槽
- 360° 旋转
- 环形冷却剂管道

Drilling table

- Precise workmanship
- Diagonal T-slot
- 360° rotating
- Circumferential coolant channel

底座

- 坚固耐用
- 大尺寸
- 工作台转向一边即可加工超高尺寸工件

Base plate

- Solid
- Generously dimensioned
- May be used for extra high work pieces with the work table slewed to one side

强劲的无刷驱动

- 运转特别平顺
- 功率非常强劲
- 整个转速范围扭矩稳定

Powerful brushless drive

- Particularly smooth action
- Extremely powerful
- Virtually constant torque over the entire speed range

同心度

- 保证主轴套筒处同心度在0.015 mm内

Concentricity

- Guaranteed less than 0.015 mm measured at the drilling spindle sleeve

机床技术参数 /Specification

型号	Model	DH 18V
货号	Item no.	3401800
电压	Motor	230V 50Hz
电机功率	Motor power	1.5KW
钢制品(S235JR)切削量	Drilling capacity in steel (S235JR)	Ø18mm
钢制品(S235JR)连续切削量	Continuous drilling capacity in steel (S235JR)	Ø13mm
钢制品(S235JR)攻丝量	Threading in steel (S235JR)	M12
主轴行程	Spindle stroke	65mm
主轴类型	Spindle seat	MT2
主轴中心到立柱表面距离	Throat	130mm
主轴转速	Spindle speeds	100-6000 rpm
档位	Number of steps	5
工作台尺寸	Work surface table length x width	230x245mm
T型槽尺寸/间距/数量	T-slot size / distance / number	12mm/90°/2
主轴到工作台(最小/最大)距离	Distance spindle - table (min/max.)	0-370mm
主轴到底座(最大)距离	Distance spindle - stand (max.)	485mm
底座尺寸	Work surface stand length x width	260x362
T型槽尺寸/间距/数量	T-slot size / distance / number	12mm/80mm/2
立柱直径	Column diameter	Ø60mm
机床尺寸	Lenght x Width x Height	550x370x850mm
机床总重	Total weight	64kg

标准附件

- 自紧式钻夹头0.3-13mm/MT2
- 退刀模GJ-19
- T型螺母M10

Standard accessories

- Keyless chuck 0.3-13mm/MT2
- drill drift GJ-19
- T-type nut M10

可选附件 : 这个可以根据客户的要求来配 , 可以是整套的六角扳手 , 或者是实用的工具箱 , B16H/HV 的可选附件都可以用。

Optional accessories: This is according to the requirement from customer. It could be full set of hexagon wrench or tool box, also we can use the same optional accessories from B16H/HV.

VARIABLE SPEED DRILLING MACHINE

无级变速钻床 DH 24BV/28BV/34BV/40BV

NEW

优质、高效、高性价比

- 内置自动卸刀装置，换刀简单方便
- 正反转开关
- 钻削深度限位可调
- 钻削深度数显表，显示精确度为0.01mm (DH34BV)
- 工作灯
- 高精度钻夹头

Convincing arguments: quality, efficiency and price

- Easy tool change due to integrated drill drift (from DH 28BV)
- Right-/left-hand rotation
- Adjustable drill depth stop
- Digital depth gauge, accuracy of the display 0.01 mm (DH34BV)
- Machine lamp
- High quality precision drill chuck

高同心度

- 小于0.015mm的精密同心度

High concentricity precision

- Due to taper roller bearings less than 0.015 mm measured in the spindle sleeve

钻夹头防护罩

- 最大限位保护用户的安全
- 高度可调
- 带微动开关
- Chuck guard**
- Best possible protection of the user
- Height-adjustable
- Micro switch



控制面板

- 速度数字显示
- 操作模式 / 转动方向选择开关
- Control panel**
- Digital speed display
- Selector switch operating mode/rotating direction

工作灯

- 内置在钻床头中
- 卤素灯

Machine lamp

- Integrated in the drill head
- Halogenlamp

铸造立柱

- 壁厚
- 高强度
- 坚固耐用
- Casting column**
- Thick-walled
- High power admission
- Solid

工作台

- 大尺寸
- 坚固耐用
- 带横向运动T型槽
- 背面加强筋
- Drilling table**
- Largely dimensioned
- Solid
- Transversally running T-slots
- Heavily ribbed at the rear side

底座

- 工作台转向一边即可加工超高尺寸工件
- 坚固耐用
- 精加工

Base plate

- Usable as a working surface for extra high workpieces due to therotatable drill table
- Solid
- Precisely machined at the surface



DH 24BV



DH 28BV

机床技术参数 /Specification

型号	Model	DH 24BV	DH 28BV	DH 34BV	DH 40BV
货号	Item no.	3502480	3502880	3503480	3504080
电压	Motor	0,85/1,5 kW 400 V/3Ph	0,85/1,5 kW 400 V/3Ph	1,5/2,4 kW 400 V/3Ph	1,5/2,4 kW 400 V/3Ph
电机功率	Motor power	0.5/1.5KW	0.85/1.5KW	1.5/2.2KW	1.5/2.2KW
钢制品(S235JR)切削量	Drilling capacity in steel (S235JR)	Ø24mm	Ø28mm	Ø34mm	Ø34mm
钢制品(S235JR)连续切削量	Continuous drilling capacity in steel (S235JR)	Ø20mm	Ø24mm	Ø26mm	Ø26mm
主轴行程	Spindle stroke	85mm	105mm	160mm	160mm
主轴类型	Spindle seat	MT 2	MT 3	MT 4	MT 4
主轴中心到立柱表面距离	Throat	165mm	200mm	285mm	285mm
主轴转速	Spindle speeds	300-4000 rpm	300-4000 rpm	300-4000 rpm	150-2000 rpm
工作台尺寸	Work surface table length x width	280x300mm	340x358mm	400x426mm	400x426mm
T型槽尺寸/间距/数量	T-slot size / distance / number	14mm/90°/2	14mm/90°/2	14mm/90°/2	14mm/90°/2
工作台旋转	Drilling table turnable	360°	360°	360°	360°
主轴到工作台(最小/最大)距离	Distance spindle - table (min/max.)	0-445mm	0-927mm	0-790mm	0-790mm
主轴到底座(最大)距离	Distance spindle - stand (max.)	595mm	1282mm	1025mm	1025mm
底座尺寸	Work surface stand length x width	264x280	350x320	410x450	410x450
立柱直径	Column diameter	Ø80mm	Ø92mm	Ø115mm	Ø115mm
机床尺寸	Lenght x Width x Height	755x440x1175mm	765x500x1940mm	975x600x2120mm	975x600x2120mm
净/毛重	N.W/G.W	115/139 kg	152/186 kg	270/320 kg	275/328 kg

标准附件
• 钻接杆
• 钻夹头3-16mm

Standard accessories
• Drill chuck taper
• Drill chuck 3-16mm



可选附件

1. 自紧钻夹头 1-16mm/B16
2. 变径套 MT3/MT2
3. 攻丝夹头 M5-M12
4. 麻花钻套装 1-13mm/25PCS
5. 莫氏锥柄钻头套头 MT2/9PCS 14.5-30mm MT3/9PCS 14.5-30mm
6. 机用平口钳 TQ100 (DH24BV) TQ140(DH28BV/DH34BV)
7. 冷却装置

OPTIONAL EQUIPMENT

1. Keyless chuck 1-16mm/B16
2. Reduction bush MT3/MT2
3. Threading tapping chuck M5-M12
4. Twist drill bit set 1-13mm/25PCS
5. Morse taper drill bit set MT2/9PCS 14.5-30mm MT3/9PCS 14.5-30mm
6. Drilling vice TQ100 (DH24BV) TQ140(DH28BV/DH34BV)
7. Coolant system

机械无级变速 Mechanical variable speed driver

- 无级变速驱动
- 机床功率大,而运转时噪音控制很好
- 皮带经久耐用
- 易学易操控
- 机运转过程中可更换速度
- Reliably by manual speed adjustment
- Powerful quiet operation
- Long-lived belt
- manageable technique
- Speed change during the course of the machine

可选附件 OPTIONAL EQUIPMENT



BENCH DRILLING MACHINE DX TYPE

台式钻床 DX13V / DX15V / DX17V

优质、高效、高性价比(仅DX17V)

- 铝皮带轮功率强劲
- 带急停按钮
- 精度滚珠轴承，钻削有力
- 保证主轴套筒处同心度在0.03 mm内
- 卡盘防护罩带微动开关，高度可调

Convincing arguments: quality, efficiency and price(only DX17V)

- Best power transmission due to aluminium belt pulleys
- Emergency-stop push button
- Drilling spindle with precision ball bearings
- Guaranteed concentricity less than 0.03 mm measured at the drilling
- Height adjustable chuck guard with microswitch

DX 13V:

- 薄膜开关按键，防水防脏，易清洁
- EMC 滤波器 B 级 (家庭私人使用)
- 机头高度可调

DX 13V:

- Membrane keyboard, dirt/water-resistant , easy to clean
- EMC filter class B (use in private households)
- Drill head height adjustable

DX 15V:

- 薄膜开关按键，防水防脏，易清洁
- EMC 滤波器 B 级 (家庭私人使用)
- 带工作站
- 带 MT 转接杆

DX 15V:

- Membrane keyboard, dirt/water-resistant , easy to clean
- EMC filter class B (use in private households)
- Drilling table
- MT Adapter

DX 17V:

- 薄膜开关按键，防水防脏，易清洁，带高对比度 LED 显示屏
- 带攻丝模式
- 显示屏带语言选择功能，可选择德语、英语、法语和俄罗斯语
- 带数字零位参考点功能
- 带计数功能
- 钻销深度限位声音报警
- 攻丝模式带减速功能
- 带西门子变频器 SINAMICS V20
- 机头左右内嵌防炫目 LED 灯

DX 17V:

- Dirt- and water-resistant, easy-to-clean membrane keyboard with highcontrast OLED display
- Thread tapping mode
- Language selection in display field, choice of DE-EN-FR-RUS
- Digital zero point
- Digital parts counter
- Audible signal on reaching drilling depth
- Reduced speed in thread tapping mode
- Siemens frequency inverter SINAMICS V20
- Anti-glare LED lighting on the left and right, integrated into the drilling head

变频电机 Inverter motor
无级变速 Variable speed



DX13V



DX15V



DX17V

机床技术参数 /Specification

型号	Model	DX13V	DX15V	DX17V
货号	Item No	3301300	3301500	3301700
电压参数	Electrical connection	230V/1ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
电机功率	Motor power	850W	850W	1.0 kW
钻孔直径	Drilling capacity			
钢件(S235JR)钻孔直径	Drilling capacity in steel (S235JR)	Ø13mm	Ø16mm	Ø16 mm
钢件连续钻孔直径	Continuous drilling cap. steel	Ø13 mm	Ø13 mm	Ø13 mm
钢件(S235JR)攻丝直径	Thread cutting in steel (S235JR)	/	/	M8
主轴座	Spindle seat			
主轴中心到立柱表面距离	Throat depth	235mm	235mm	235mm
主轴锥度	Spindle seat	B16	MT2	MT2
主轴行程	Spindle stroke	60mm	60mm	60 mm
转速	Speeds			
主轴转速	Spindle speeds	100-3000rpm	100-3000rpm	50-4000rpm
工作台	Drilling table			
工作台尺寸	Drilling table size length x width	/	290x290 mm	290x290 mm
工作台T型槽尺寸/距离/数量	T-slot size / number / distance	/	10mm/2/100mm	10mm/2/100mm
工作台回转角度	Drilling table turnable	/	360°	360°
主轴端到工作台距离	Drill chuck -drilling table	/	125 mm	125 mm
底座	Machine foot			
底座尺寸	Stand work surface L x W	290x280mm	290x280mm	290x280mm
底座T型槽尺寸/距离/数量	T-slot size / number / distance	14mm/2/100mm	14mm/2/100mm	14mm/2/100mm
主轴端到底座距离	Distance drill chuck - machine foot	300 mm	300 mm	300 mm
尺寸	Dimensions			
立柱直径	Column diameter	Ø60 mm	Ø60mm	Ø60 mm
外形尺寸	Length x width x height	475x425x880mm	475x425x910mm	475x425x910mm
包装尺寸	Packing size	540x420x1035mm	540x420x1060mm	540x420x1100mm
净重/毛重	N.W./G.W.	51/65.1 kg	66/83 kg	73/85 kg



VARIABLE SPEED DRILLING MACHINE

工业无级变速钻床 B30BS

优质、高效、高性价比

- 减震高速强功率电机
- 主轴使用精确滚珠轴承
- 套筒行程125mm
- 工作台沿齿条可上下移动
- 可调整的钻削深度限位
- 紧急停止开关
- 钻削深度数显表，公英制转换，精度为0.01mm
- 可调透明互锁钻夹头防护罩

Convincing arguments: quality, efficiency and price

- Smooth running and high performance electro motor
- Drilling spindle with precise ball bearings
- Large sleeve travel of 125 mm
- Height adjustment of the drilling table via toothed rack
- Adjustable drilling depth stop
- EMERGENCY-STOP-switch
- Digital depth gauge, accuracy of the display 0.01 mm, reversible mm/inch
- Height adjustable screening grid with interlock switch for best possible protection of the user

- . 退刀器可方便更换钻头及其他工具
- . Simple tool change by ejection mechanism



- . 钻孔深度数显表精确为 0.01mm
- . Digital depth gauge accuracy of the display 0.01 mm

- . 钻削深度限位块
- . Drill depth stop

- . 高强度铸铁立柱
- . Thick-walled cast upright for high power compensation and stability



- . 大尺寸高刚性对角 T 行槽工作台
- . Largely dimensioned, solid drilling table, precisely machined, with diagonally running T-slots, heavily ribbed at the back side

- 重型 T 型槽底座**
- . 将工作台向一边回转可在底座上放置大型工件
- . Solid base plate with T-slots, precisely machined surface by swivelling the table, it can be used as working surface for extremely high workpieces



- . 强功率电机
- . 无级变速
- . Powerful motor
- . Vario speed (infinitely variable)

- . 急停开关
- . Emergency-Stop button
- . 调速旋钮
- . Change speed button

- . 工作灯
- . Machine lamp

- . 可调互锁防护罩
- . Height adjustable screening grid with interlock switch for best possible protection of the user

- . 工作台升降齿条
- . Height adjustable via toothed rack

- 7. 回水过滤装置 (可选)**
- Backwater filtration device (for optional)

机床技术参数 /Specification

型号	Model	B30BS
产品编号	Code No.	3403000
加工范围	CAPACITY	
钻孔直径	Drilling capacity (max.)	Ø30mm
工作范围	WORKING RANGE	
套筒直径	Sleeve diameter	Ø62mm
套筒行程	Sleeve travel	125mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle holding fixture	MT3
主轴中心线至立柱表面距离	Distance spindle-column	285mm
速度	SPEEDS	
主轴转速	Spindle speeds	30-3800rpm
转速级数	Number of steps	4 x 2 steps
工作台	DRILLING TABLE	
工作台尺寸 (长×宽)	Table size(L×W)	426×400mm
T型槽尺寸	T-slot size	14mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	790mm
底座尺寸(长×宽)	Working surface stand(L×W)	388×390mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	1025mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	2.2KW /230V/50Hz
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸 (长×宽×高)	size(L×W×H)	693×534×1850mm
包装尺寸 (长×宽×高)	packing size(L×W×H)	855×600×2110mm
净重/毛重	Net weight/Gross weight	295/344kg

标准附件

- 钻接杆 MT3/B16
- 钻夹头 3-16mm/B16

Standard accessories

- Drill chuck taper MT3/B16
- Drill chuck 3-16mm/B16

可选附件

1. 自紧钻夹头 1-16mm/B16
2. 变径套 MT3/MT2
3. 攻丝夹头 M5-M12
4. 麻花钻套装 1-13mm/25PCS
5. 真氏锥柄钻头套头 MT3/9PCS 14.5-30mm
6. 机用平口钳 TQ140
7. 回水过滤装置

OPTIONAL EQUIPMENT

1. Keyless chuck 1-16mm/B16
2. Reduction bush MT3/MT2
3. Threading tapping chuck M5-M12
4. Twist drill bit set 1-13mm/25PCS
5. Morse taper drill bit set MT3/9PCS 14.5-30mm
6. Drilling vice TQ140
7. Backwater filtration device

可选附件 OPTIONAL EQUIPMENT



DRILLING MACHINE

钻 床 B 30VGM

优质、高效、高性价比

- 床身厚重大型铸铁制造
- 铸铁立柱大尺寸、壁厚，运转平稳、性能稳定
- 主轴经淬火、精加工，同心度高
- 攻丝功能，主轴自动进给
- 可锁式主开关、以及带安全保护的电机开关
- 主轴自动卸刀装置，换刀简单方便
- 钻夹头防护罩尺寸大、高度可调节并带微调开关，有利防护铁屑飞溅和零件滑脱带来的危险

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Smooth running and stability due to a largely dimensioned thick-walled steel column upright
- High concentricity precision due to hardened and ground work spindle
- Threading attachment, Spindle power feeder
- Lockable main switch and protective motor switch
- Spindle locking with integrated drill for a simple tool change
- Height-adjustable screening grid with micro switch to prevent from parts flying off, for best possible protection of the user

- . 内置工作灯
. Machine lamp

- 主轴保护**
. 带微型开关、高度可调的钻夹头防护罩
. Spindle protection with micro switch and highly adjustable chuck cover

- 钻削工作台**
. 大尺寸、精加工
. 带横向运动 T型槽
. 背面加强筋
. 通过齿条调节高度
. 360° 旋转
Drilling table
. Largely dimensioned, solid and precisely machined
. Transversally running T-slots
. Heavily ribbed at the backside
. Height-adjustable via toothed rack
. Rotation of 360° through its own axis and about the upright

- . 带有冷却箱的冷却装置
. Coolant equipment and coolant tank

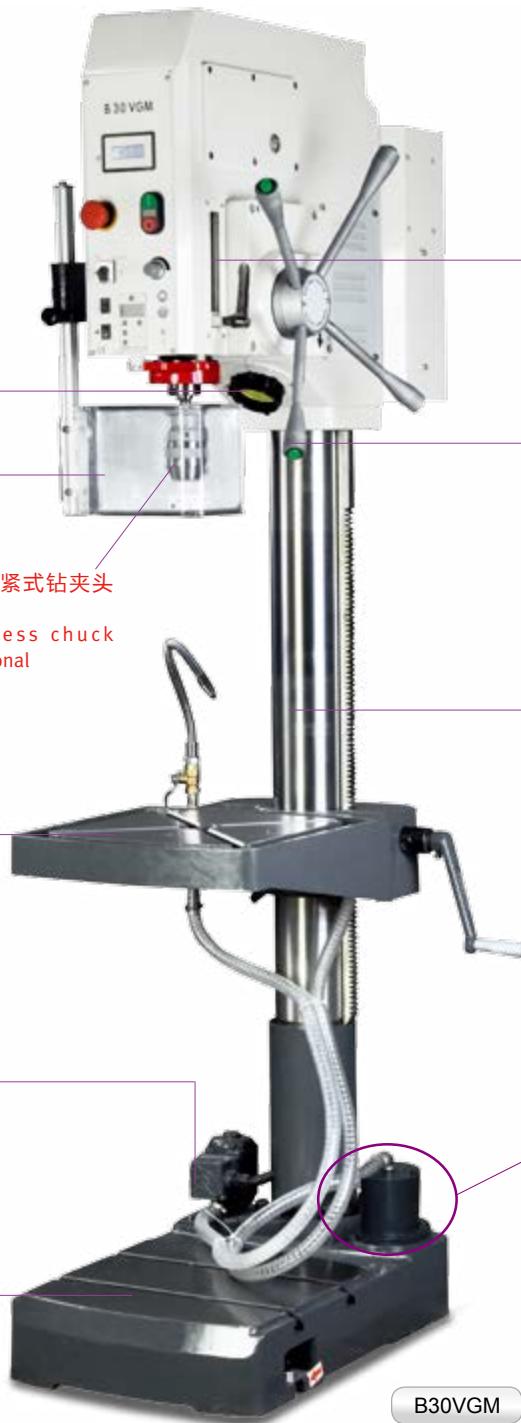
- 底座**
. 带 T型槽
. 精加工
. 工作台转向一边即可加工超高尺寸工件
Base plate
. Solid with T-slots
. Precisely machined
. May be used for extra high work pieces with the work table slewed to one side

- . 毫米刻度钻削深度限位
. Drill depth stop

- . 主轴套筒进给
. 可攻丝，带有 3 种速度的主轴自动进给
. Spindle sleeve feed
. Automatic with 3 speeds
. Right-left-handed rotation for threading

- . 强力、厚壁的铸铁立柱
. Casting upright thick-walled, for a high power admision and stability column

7. 回水过滤装置 (可选)
Backwater filtration device (for optional)



机床技术参数 /Specification

型号	Model	B30VGM
产品编号	Code No.	3413000
加工范围	CAPACITY	
钻孔直径	Drilling capacity (max.)	Ø30mm
工作范围	WORKING RANGE	
套筒直径	Sleeve diameter	Ø62mm
套筒行程	Sleeve travel	125mm
主轴	SPINDLE HOLDING FIXTURE	
主轴锥度	Spindle holding fixture	MT3
主轴中心线至立柱表面距离	Distance spindle-column	285mm
速度	SPEEDS	L:80-700rpm M:200-1700rpm H:400-3000rpm
主轴转速	Spindle speeds	
转速级数	Number of steps	3 steps
进给量	Autom.spindle sleeve feed	0.1/0.15/0.2mm/rev
工作台	DRILLING TABLE	
工作台尺寸 (长×宽)	Table size(L×W)	426×400mm
T型槽尺寸	T-slot size	14mm
主轴端面至工作台面最大距离	Distance spindle-table(max.)	790mm
底座尺寸(长×宽)	Working surface stand(L×W)	388×390mm
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	1025mm
电机	ELECTRIC SUPPLY	
电机功率	Motor	2.5KW 230v/50Hz
外形尺寸及重量	DIMENSIONS AND WEIGHT	
外形尺寸 (长×宽×高)	size(L×W×H)	735×600×1915mm
包装尺寸 (长×宽×高)	packing size(L×W×H)	855×600×2110mm
净重/毛重	Net weight/Gross weight	302/366kg

标准附件

- 钻接杆 MT3/B16
- 钻夹头 3-16mm/B16

Standard accessories

- Drill chuck taper MT3/B16
- Drill chuck 3-16mm/B16

可选附件

1. 自紧钻夹头 1-16mm/B16
2. 变径套 MT3/MT2
3. 攻丝夹头 M5-M12
4. 麻花钻套装 1-13mm/25PCS
5. 真氏锥柄钻头套头 MT3/9PCS 14.5-30mm
6. 机用平口钳 TQ140
7. 回水过滤装置

OPTIONAL EQUIPMENT

1. Keyless chuck 1-16mm/B16
2. Reduction bush MT3/MT2
3. Threading tapping chuck M5-M12
4. Twist drill bit set 1-13mm/25PCS
5. Morse taper drill bit set MT3/9PCS 14.5-30mm
6. Drilling vice TQ140
7. Backwater filtration device

可选附件 OPTIONAL EQUIPMENT



DRILLING MACHINE

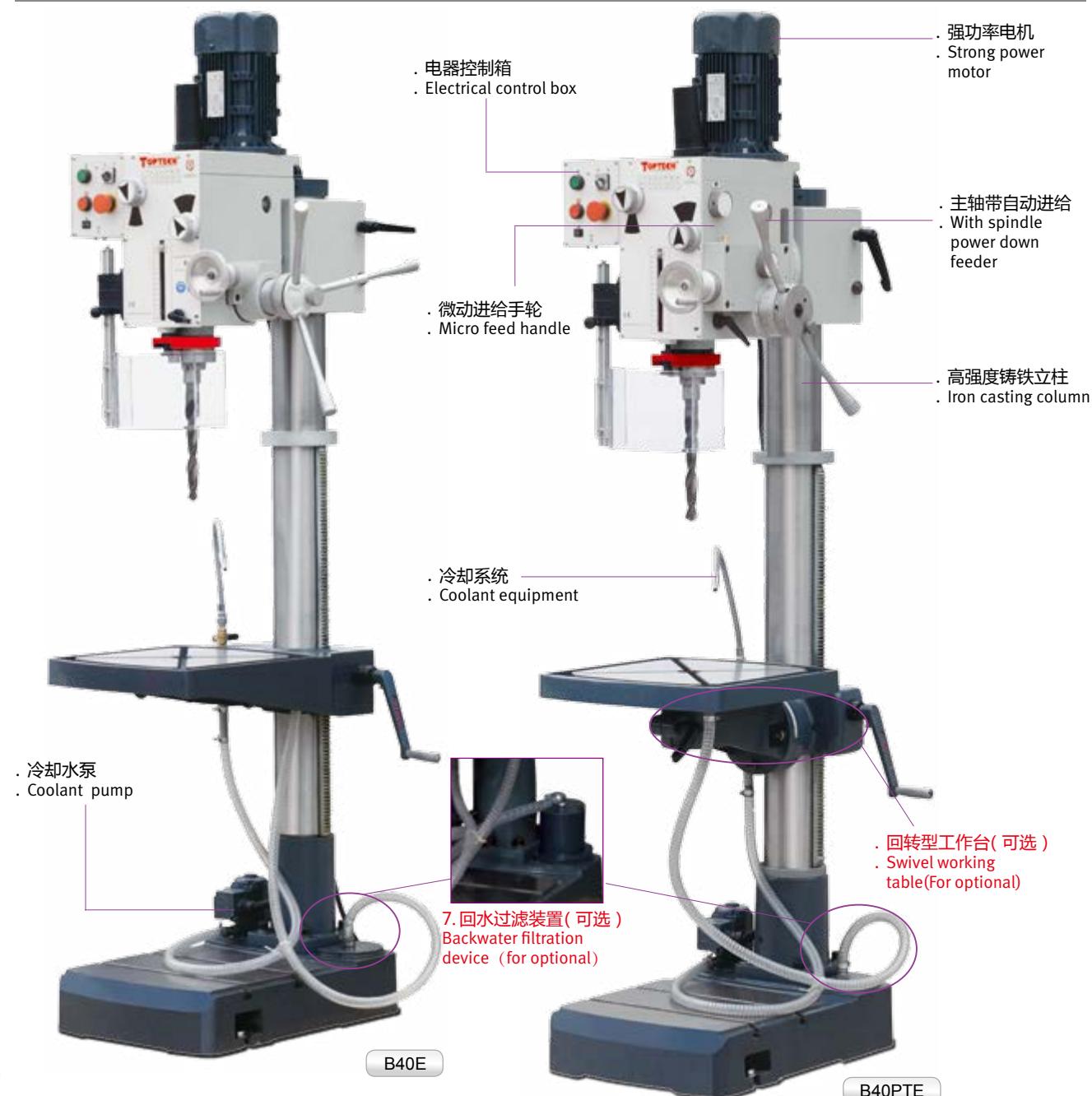
钻 床 B 40E/B40PTE

优质、高效、高性价比

- 铸铁结构 结实耐用
- 通过手轮精确进给的主轴套筒，方便实用
- 钻削工作台大尺寸、结实耐用、加工精密，带有T型槽，背部强筋加固，双夹持
- 通过前端的换挡手柄实现轻易变速
- 星形把手主轴套筒进给
- 耦合器用以实现由手动粗进给转换为手动精进给
- 厚壁铸铁立柱，令加工操作平滑稳定
- 工作台通过齿条调节高度
- 冷却装置
- 机头高度可通过齿条调节
- 主轴套筒自动走刀，加工方便快捷
- 旋转工作台

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Spindle sleeve fine infeed via handwheel, easy to use
- Largely dimensioned drilling table, solid and precisely machined with transversally running T-slots, heavily ribbed at the backside and double clamping
- Easy speed change via gear shifting lever at the front
- Spindle sleeve feed via star grip (B 40 E)
- Coupler to change from manual rough feed to manual fine feed
- Thick-walled cast-iron upright for high smooth running and stability
- Height adjustment of table via toothed rack
- Coolant equipment
- Machine head adjustable via toothed rack B 40 PTE:
- Automatic sleeve feed allows easy working
- Swiveling drilling table



机床技术参数 /Specification

型号	Model	B40E	B40PTE
货号	Code No.	3304000	3314000
钻孔能力	Drilling CAPACITY		
钻孔直径	Drilling capacity in steel	Ø32mm	
连续钻孔直径	Continuity drilling cap.steel	Ø25mm	
套筒行程	Sleeve travel	120mm	
主轴套筒直径	Spindle sleeve diameter	Ø75mm	
工作范围	Working range	285mm	
主轴锥度	SPINDLE		
主轴锥度	Spindle taper	MT4	
速度	SPEEDS		
主轴转速	Spindle speeds	95-3200rpm	
转速级数	Number of steps	2x6steps	
工作台尺寸	Working surface table LxW	426x400mm	
T型槽尺寸	T-slot size	14mm	
工作台回转角度	Drilling table slewable	-360°	
主轴端面到工作台面的最大距离	Distance spindle-table(max.)	855mm	
床脚尺寸	Working surface stand LxW	388x390mm	
主轴到床脚距离	Distance spindle-stand(max.)	1215mm	
立柱直径	Upright diameter	Ø115mm	
电机	ELECTRIC SUPPLY		
电机功率	Driving power	1.1/1.5KW 400V~50Hz	
冷却泵功率	Coolant pump	40W	
外形尺寸及重量	DIMENSIONS AND WEIGHT		
包装尺寸	Packing size	755x620x2010mm 760x620x2000mm	
净重/毛重	N.W./G.W.	288/336kg 302/360kg	

标准附件

- 操作工具
- 快换钻夹头
- Standard accessories
- Operating tools
- Quick-action drill chuck

可选附件

1. 自紧钻夹头 1-16mm/B16
2. 变径套 MT3/MT2
3. 攻丝夹头 M5-M12
4. 麻花钻套装 1-13mm/25PCS
5. 莫氏锥柄钻头套头 MT3/9PCS 14.5-30mm
6. 机用平口钳 TQ100/TQ140
7. 回水过滤装置

OPTIONAL EQUIPMENT

1. Keyless chuck 1-16mm/B16
2. Reduction bush MT3/MT2
3. Threading tapping chuck M5-M12
4. Twist drill bit set 1-13mm/25PCS
5. Morse taper drill bit set MT3/9PCS 14.5-30mm
6. Drilling vice TQ100/TQ140
7. Backwater filtration device

可选附件 OPTIONAL EQUIPMENT



GEAR HEAD DRILLING MACHINE

钻 床 DH26GT/DH28GS/DH32GS

优质、高效、高性价比

- 床身厚重结实铸铁制造
- 铸铁立柱大尺寸，壁厚，运转平稳、性能稳定
- 主轴经淬火、精加工，同心度高
- 精加工铝皮带轮保证高速平滑运行
- 转速范围较宽
- 钻夹头防护罩尺寸大、高度可调节并带微调开发，有利
防护铁屑飞溅和零件滑脱带来的危险
- 钻夹头防护最大限度地保护使用者
- 内置工作灯
- DH28GS和DH32GS带冷却装置

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Smooth running and stability due to a largely dimensioned, thick-walled casting column
- High true running accuracy due to hardened and ground work spindle
- Smooth running due to aluminum pulleys with ground multi
- Wide speed range
- Height-adjustable spindle protection with microswitch to prevent
chips and parts
- Spindle protection for best possible protection of the user
- Integrated Machine lamp
- DH28GS and DH 32 GS with coolant equipment

工作灯

- 内置在钻床头中
- 卤素灯

Machine lamp

- Integrated in the drill head
- Halogenlamp

- 自紧式钻夹头 (可选)
- Keyless chuck (Optional)

铸铁立柱

- 壁厚
- 高强度
- 坚固耐用

Casting column

- Thick-walled
- High power admission
- Solid

工作台高度可调整

- 通过齿条
- via toothed rack

工作台

- 大尺寸
- 坚固耐用
- 带横向运动T型槽
- 背面加强筋

Drilling table

- Largely dimensioned
- Solid
- Transversally running T-slots
- Heavily ribbed at the rear side



- 脚踏开关 (可选)
- Foot pedal(for optional)

底座

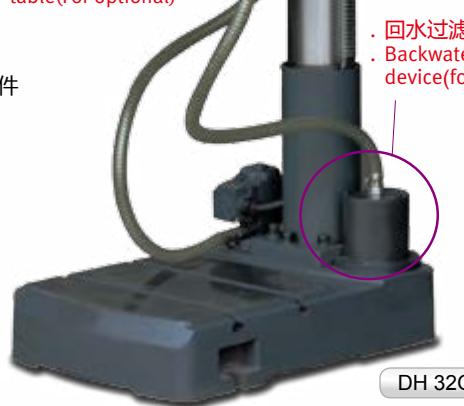
- 工作台转向一边即可加工超高尺寸工件
- 坚固耐用
- 精加工

Base plate

- Usable as a working surface for extra high workpieces due to the rotatable drill table
- Solid
- Precisely machined at the surface

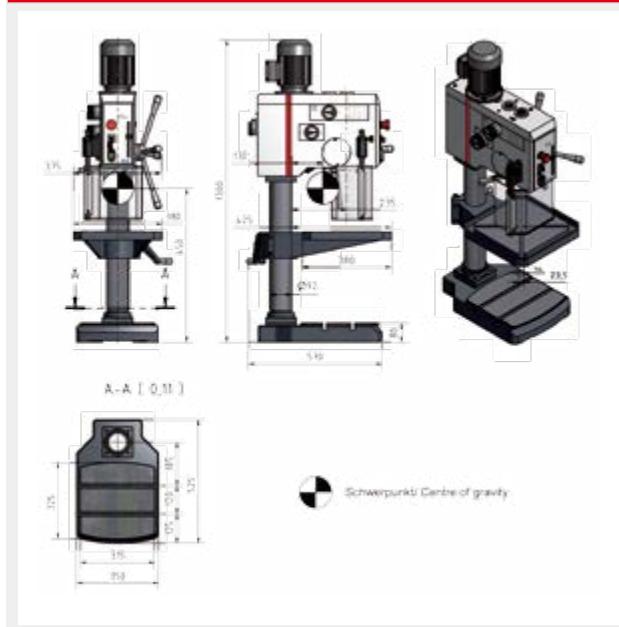


- 回转型工作台 (可选)
- Swivel working table(For optional)

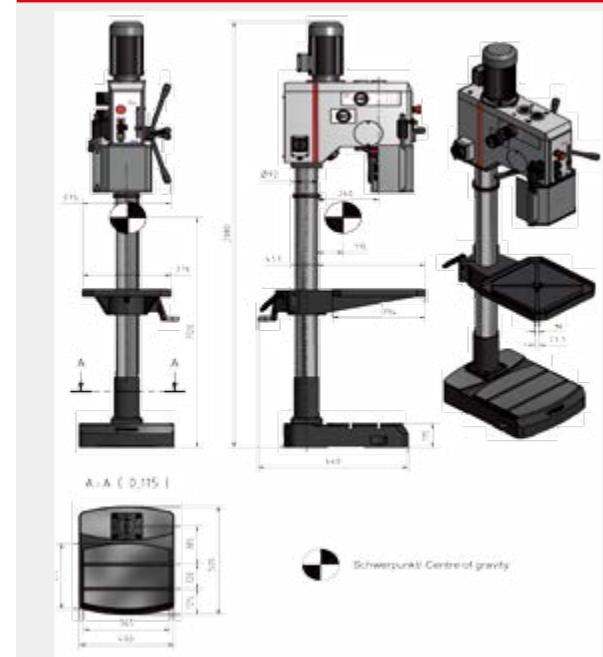


- 回水过滤装置 (可选)
- Backwater filtration device(for optional)

Dimensions DH 26GT



Dimensions DH 28GS



机床技术参数 /Specification

型号	Model	DH26GT	DH28GS	DH32GS
货号	Item no.	3312680	3322880	3323280
电机	Electrical connection			
电压	Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
主电机功率	Total connexion ~50 Hz	1,1/1,5 kW	1,1/1,5 kW	1,5/2.2KW
钻孔能力	Drilling capacity			
最大钻孔能力(钢件)	Drilling capacity in steel (S235JR)	Ø 26 mm	Ø 28 mm	Ø 32 mm
持续钻孔能力	Continuous drilling cap. steel (S235JR)	Ø 24 mm	Ø 25 mm	Ø 30 mm
主轴	Spindle seat			
主轴锥度	Spindle taper		MT 3	MT4
主轴套筒行程	Spindle sleeve stroke	235 mm	260 mm	285 mm
转速	Speeds			
主轴转速	Spindle speeds	75 / 150 rpm 250 / 500 rpm 420 / 840 rpm 1450 / 2900 rpm	75 / 110 rpm 240 / 360 rpm 420 / 620 rpm 1330 / 2000 rpm	
工作台	Drilling table			
工作台尺寸	Working surface table Length x width	380 x 380 mm	376 x 394 mm	400 x 420 mm
T型槽尺寸	T-slot size	14 mm	14 mm	14 mm
工作台旋转角度(可选)	Drilling table turntable(for optional)	360°	360°	360°
主轴端面至工作台面最大距离	Distance spindle - table (max.)	450 mm	933 mm	822
主轴端面至底座最大距离	Distance spindle - stand (max.)	610 mm	1300 mm	1270 mm
底座尺寸	Working surface stand	322 x 320 mm	322 x 356 mm	420 x 393 mm
尺寸	Dimensions			
立柱直径	Column diameter	Ø 92 mm	Ø 92 mm	Ø 115 mm
包装尺寸(长x宽x高)	packing size(LxWxH)	725x500x1600mm	2070x480x845mm	2240x550x990mm
净重/毛重	Net weight/Gross weight	158/184 kg	175/230 kg	312/378 kg

细节展示 Details



- 主轴自动卸刀装置,换刀方便
- Spindle locking with integrated drill drift:
- for a simple tool change



- 齿轮
- 8级转速75-2' 900rpm
- Gear
- 8 speeds 75 - 2'900 rpm

GEAR HEAD DRILLING MACHINE

钻 床 DH26GTV/28GSV/32GSV



面板
· 良好的薄膜键盘
· 数字速度显示

Front panel
· User-friendly membrane keyboard
· Digital speed display



工作灯
· 内置在钻床头中
· 卤素灯

Machine lamp
· Integrated in the drill head
· Halogenlamp



钻夹头防护罩
· 最大限位保护用户的安全
· 高度可调
· 带微动开关
Chuck guard
· Best possible protection of the user
· Height-adjustable
· Micro switch

铸造立柱
· 壁厚
· 高强度
· 坚固耐用

Casting column
· Thick-walled
· High power admission
· Solid



工作台
· 大尺寸
· 坚固耐用
· 带横向运动T型槽
· 背面加强筋

Drilling table
· Largely dimensioned
· Solid
· Transversally running T-slots
· Heavily ribbed at the rear side



. 脚踏开关 (可选)
. Foot pedal(for optional)

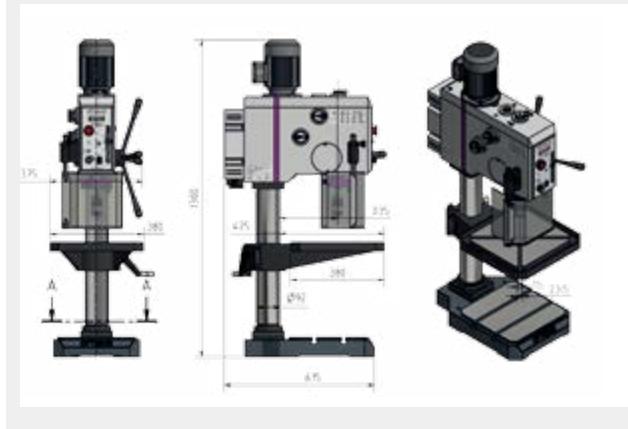


DH 26GTV

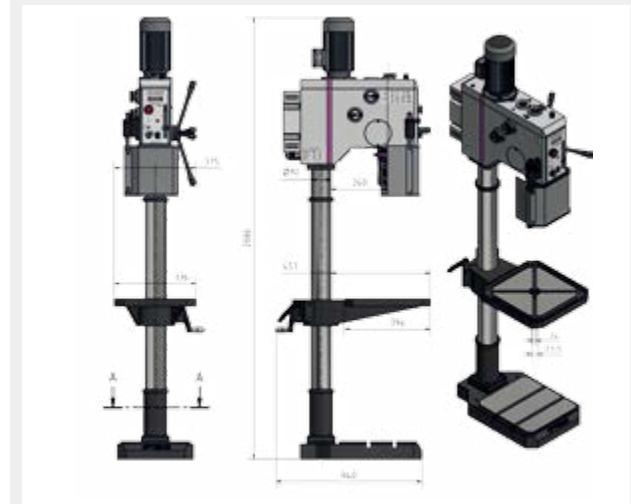


DH 28GSV

Dimensions DH 26GTV



Dimensions DH 28GSV



机床技术参数 /Specification

型号	Model	DH 26GTV	DH 28GSV	DH32GSV
货号	Item no.	3412600	3422800	3423280
机器参数	Machine datas			
插头电源	Electrical connection	230V 50HZ 1PH	400V 50HZ 3PH	400V 50HZ 3PH
电机功率	Motor power	1.5KW	1.5KW	2.2KW
冷却泵电机	Motor coolant pump	/	/	40W
钻孔能力	Drilling capacity			
钢制品切削量	Drilling capacity in steel (S235JR)	Ø 26 mm	Ø 28 mm	Ø 32 mm
钢制品连续切削量	Continuous drilling capacity in steel(S235JR)	Ø 24 mm	Ø 25 mm	Ø 30 mm
主轴	Spindle seat			
主轴行程	Spindle stroke	127mm	127mm	125mm
主轴类型	Spindle seat	MT3	MT3	MT4
主轴中心到立柱表面距离	Throat	235mm	260mm	285mm
主轴自动走刀	Automatic spindle sleeve feed	/	/	0.1-/0.05 mm/rev
转速	Speeds			
主轴转速	Spindle speed	45-165 rmp 150-550 rmp 250-925 rmp 870-3200 rmp	45-165 rmp 150-550 rmp 250-925 rmp 870-3200 rmp	50-160 rpm 160-530 rpm 280-920 rpm 900-3000 rpm
档位	Gear stages/Steps	4档变速+变频调速	4档变速+变频调速	4档变速+变频调速
工作台	Drillling table			
工作台尺寸	Table work surface length x width	380×380mm	376×394mm	400×420mm
T型槽尺寸	T-slot size T	14mm	14mm	14mm
工作台旋转	Rotatable drilling table			
主轴到工作台距离	Distance spindle - table	max. 450 mm	max. 875 mm	max. 822 mm
主轴到底座距离	Distance spindle - stand	max. 610 mm	max. 1200 mm	max. 1270 mm
底座尺寸	Stand work surface length x width	320×322 mm	350×322 mm	420×393 mm
尺寸	Dimensions			
立柱直径	Column diameter	Ø 92 mm	Ø 92 mm	Ø 115 mm
机床尺寸	Dimensions	725×500×1600mm	2070×480×890mm	2240×550×990mm
净重/毛重	Total weight	168/194KG	184/242KG	303/369 KG

DRILLING MACHINE

钻 床 DH35G/DH45G/DH55G

NEW

优质、高效、高性价比

- 铸铁结构，结实耐用
- 铸铁立柱大尺寸、壁厚，运转平稳、性能稳定
- 通过油泵自动齿轮润滑
- 主轴经淬火、精加工，同心度高
- 齿轮打磨，保证运转平稳，性能稳定
- 攻丝机构
- 可锁式主开关，以及带安全保护的电机开关
- 主轴自动卸刀装置，换刀简单方便
- 带机械3级可调主轴套筒进给

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Smooth running and stability due to a largely dimensioned, thick-walled casting column
- Automatic gearwheel lubrication via oil pump
- High true running accuracy due to hardened and ground work spindle
- High smooth running due to grinded gearwheels
- Threading mechanism
- Lockable main switch and protective motor switch
- Spindle locking with integrated drill drift for a simple tool change
- With mechanic, 3-fold adjustable spindle sleeve feed



DH 35G

冷却装置

- 连续的
 - 分体式冷却箱
 - 冷却箱体积为7升
 - 排量是12升/分钟
- Coolant equipment**
- Serial
 - Coolant tank on the base
 - Tank capacity 7 litres
 - Delivery volume 12 l/min.



主轴转速

- 通过机头前部齿轮拨档手柄调速，可调8速
 - 90-1520 rpm
- Spindle speed**
- 8 selectable speeds via gear shifting lever at the front of the drill head
 - 90-1520 rpm

主轴套筒进给

- 自动
 - 3档, 0.1, 0.15, 0.2毫米/转
- spindle sleeve feed**
- Automatic
 - 3 steps, 0.1, 0.15, 0.2 mm/rev

正反旋转

- 当攻丝时
- Right-/left handed rotation**
- when threading

工作灯：内置在机头内

- Machine lamp**
- Integrated in the drill head

工作台

- 大尺寸
- 结实耐用
- 加工紧密
- 带T型槽
- 背部强筋加固
- 工作台通过齿条调节高度
- 360度旋转

Drilling table

- Largely dimensioned
- Solid
- Precisely worked
- Transversally running T-slots
- Heavily ribbed at the rear side
- Height-adjustable via toothed rack
- Rotation of 360° through its own axis and about the column

过滤器

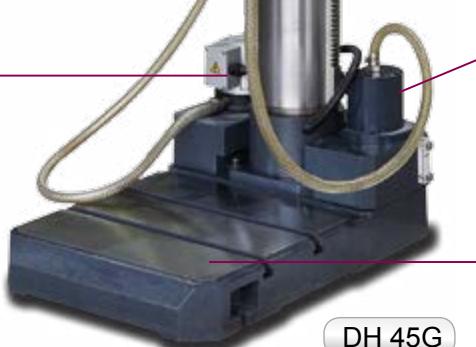
- 清洁及过滤的冷却液
- Chip filter**
- Cleans the coolant from rough components

底座

- 结实耐用
- 带T型槽
- 工作面精加工
- 工作台转向一边即可加工超高尺寸工件

Base plate

- Solid
- Parallel running T-slots
- Precisely machined surface
- Usable as a worksurface for extra high workpieces due to the rotatable drill table



DH 45G

机床技术参数 /Specification

型号	Model	DH 35G	DH 45G	DH 55G
货号	Item no.	3323500	3324500	3325500
电压	Electrical connection	400 V	400 V	400 V
电机功率	Motor power	2.2 KW	2.2 KW	4/3 KW
水泵电机功率	Motor coolant pump	0.1kW	0.1kW	0.1kW
钢制品(ST60 - E335)切削量	Drilling capacity in steel (ST60 - E335)	Ø35mm	Ø45mm	Ø55mm
钢制品连续切削量	Continuous drilling capacity in steel	Ø26mm	Ø38mm	Ø38mm
钢制品(ST60 - E335)攻丝量	Threading in steel (ST60 - E335)	M20	M24	M42
主轴行程	Spindle stroke	125mm	170mm	200mm
主轴类型	Spindle seat	MT4	MT4	MT4
主轴中心到立柱表面距离	Throat	285mm	350mm	405mm
主轴自动走刀	Automatic spindle sleeve feed	0.1,0.15,0.2mm/rev	0.1,0.15,0.2mm/rev	0.1,0.15,0.2mm/rev
主轴转速	Spindle speeds	40-3000 rpm	90-1520 rpm	45-2000 rpm
档位	Number of steps	8 steps	8 steps	16steps
工作台尺寸	Work surface table length x width	400x420mm	530x530mm	650x650mm
T型槽尺寸/间距/数量	T-slot size / distance / number	14/36-305/4	16/125/3	18/160/3
工作台最大载荷	Load drilling table	200kg	250Kg	350Kg
工作台旋转	Drilling table turnable	NO	YES	YES
主轴到工作台(最小/最大)距离	Distance spindle - table (min/max.)	65-800mm	130-725mm	130-725mm
主轴到底座(最大)距离	Distance spindle - stand (max.)	1258mm	1210mm	1300mm
底座尺寸	Work surface stand lengthxwidth	659x420mm	755x480mm	910x600mm
T型槽尺寸/间距/数量	T-slot size / distance / number	14/150/2	18/150/2	18/150/2
立柱直径	Column diameter	Ø115mm	Ø150mm	Ø200mm
机床尺寸	Lenght x Width x Height	725x450x2175mm	850x480x2195mm	/
包装尺寸	packing size	2240x550x990mm	1110x770x2440mm	/
净重/毛重	Net weight/Gross weight	350/420kg	560/625kg	590kg

标准附件 (DH45G)

- 莫氏锥柄钻头 MT4/B16
- 自紧式钻夹头 1-16 mm/B16
- Standard accessories(DH45G)
- Morse taper MT4/B16
- Keyless chuck 1-16 mm/B16

可选附件 (DH45G)

1. 快换钻夹头 MT4/1-16mm
2. 变径套 MT4-MT3
3. 钻接杆 MT4-B16
4. 麻花钻套装 Ø1-13mm
5. 夹紧工具 SPW12
6. 攻丝夹头 M5-M12
7. 机用平口钳 BSI 140/200
8. 脚踏开关

OPTIONAL EQUIPMENT(DH45G)

1. Quick-action drill chuck MT4/1-16 mm
2. Reducing bushes MT 4 - MT 3
3. Drilling chuck taper MT 4 - B16
4. Twist drill kit coated with titanium Ø 1-13 mm
5. Clamping tool kit SPW 12
6. Tapping chuck M5-M12
7. Machine vices BSI 140/200
8. Foot pedal



VARIABLE SPEED DRILLING MACHINE

无级变速钻床 DH 45V



DH 45V

速度显示表
speed display

正反旋转
• 当攻丝的时候
Right-/left handed rotation
• when threading

工作台
• 大尺寸
• 结实耐用
• 加工紧密
• 背部强筋加固
• 自动升降
Drilling table
• Largely dimensioned
• Solid
• Precisely worked
• Heavily ribbed at the rear side
• Table with power up & down

冷却装置
• 连续的
• 底座内置冷却箱
• 冷却箱体积为7升
• 排量是12升/分钟
Coolant equipment
• Serial
• Coolant tank integrated in the base plate
• Tank capacity 7 litres
• Delivery volume 12 l/min.

主轴转速
• 通过机头前部齿轮拨挡手柄调速，可调8速
• 90-1520 rpm
Spindle speed
• 8 selectable speeds via gear shifting lever at the front of the drill head
• 90-1520 rpm

主轴套筒进给
• 自动
• 3档，0.1,0.15,0.2毫米/转
spindle sleeve feed
• Automatic
• 3 steps, 0.1,0.15,0.2 mm/rev

工作灯：内置在机头内
Machine lamp
• Integrated in the drill head

过滤器
• 清洁粗糙部件处出来的冷却液
Chip filter
• Cleans the coolant from rough components

底座
• 结实耐用
• 带T型槽
• 工作面精加工
• 工作台转向一边即可加工超高尺寸工件
Base plate
• Solid
• Parallel running T-slots
• Precisely machined surface
• Usable as a worksurface for extra high workpieces due to the rotatable drill table

机床技术参数 /Specification

型号	Model	DH 45V
货号	Item no.	3404500
电压	Electrical connection	400V
电机功率	Motor power	2.2KW
水泵电机功率	Motor coolant pump	0.04KW
钢制品(ST60 - E335)切削量	Drilling capacity in steel (ST60 - E335)	40
钢制品连续切削量	Continuous drilling capacity in steel	0.15
钢制品(ST60 - E335)攻丝量	Threading in steel (ST60 - E335)	M35
主轴行程	Spindle stroke	170
主轴类型	Spindle seat	MT4
主轴中心到立柱表面距离	Throat	350mm
主轴自动走刀	Automatic spindle sleeve feed	3steps/0.1-0.2mm/rev
主轴转速	Spindle speeds	30-2430/min
档位	Number of steps	4 4-step vario
工作台尺寸	Work surface table length x width	530X530
T型槽尺寸/间距/数量	T-slot size / distance / number	16/125/3
工作台最大载荷	Load drilling table	250Kg
工作台旋转	Drilling table turnable	YES
主轴到工作台(最小/最大)距离	Distance spindle - table (min/max.)	130-725mm
主轴到底座(最大)距离	Distance spindle - stand (max.)	1210mm
底座尺寸	Work surface stand length x width	755X480
T型槽尺寸/间距/数量	T-slot size / distance / number	18/150/2
立柱直径	Column diameter	150mm
机床尺寸	size(L×W×H)	850X480X2195
包装尺寸	packing size(L×W×H)	2540X770X1110
净重	N.W	550 kg

DRILLING MACHINE

钻 床 DRILLING 45/45E

优质、高效、高性价比

- 铸铁结构，结实耐用
- 铸铁立柱大尺寸、壁厚，运转平稳、性能稳定
- 通过油泵自动齿轮润滑
- 主轴经淬火、精加工，同心度高
- 齿轮打磨，保证运转平稳，性能稳定
- 攻丝机构
- 可锁式主开关，以及带安全保护的电机开关
- 主轴自动卸刀装置，换刀简单方便
- Drilling 45 带机械 2 级可调主轴套筒进给
- Drilling 45E 带电磁主轴套筒进给

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Smooth running and stability due to a largely dimensioned, thick-walled casting column
- Automatic gearwheel lubrication via oil pump
- High true running accuracy due to hardened and ground work spindle
- High smooth running due to grinded gearwheels
- Threading mechanism
- Lockable main switch and protective motor switch
- Spindle locking with integrated drill drift for a simple tool change
- DRILLING 45 with mechanic, 2-fold adjustable spindle sleeve feed
- DRILLING 45E with electromagnetic spindle sleeve feed

主轴转速

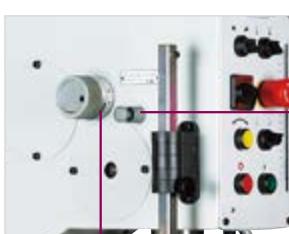
- 通过机头前部齿轮拨档手柄调速，可调9速
- 两级驱动电机
- 18速 50-1'450 rpm

Spindle speed

- 9 selectable speeds via gear shifting lever at the front of the drill head
- Two-stage driving motor
- 18 speeds 50 - 1'450 rpm

内置换刀便捷

- 插入换刀盘
- 按动星形把手向上
- 锥形心轴退出主轴
- Easy tool change due to integrated drill drift:**
- Insert drill drift
- Press star grip upwards
- The taper mandrel is pressed out of the drilling spindle



主轴套筒进给

- 自动
- 2档, 0.1/0.2毫米/转
- spindle sleeve feed**
- Automatic
- 2 steps, 0.1/0.2 mm/rev

钻夹头防护罩

- 最大限位保护用户的安全
- 高度可调
- 带微动开关
- Chuck guard**
- Best possible protection of the user
- Height-adjustable
- Micro switch

工作台

- 大尺寸
- 结实耐用
- 加工紧密
- 带T型槽
- 背部强筋加固
- 工作台通过齿条调节高度
- 360度旋转
- Drilling table**
- Largely dimensioned
- Solid
- Precisely worked
- Transversally running T-slots
- Heavily ribbed at the rear side
- Height-adjustable via toothed rack
- Rotation of 360° through its own axis and about the column

底座

- 结实耐用
- 带T型槽
- 工作面精加工
- 工作台转向一边即可加工超高尺寸工件
- Base plate**
- Solid
- Parallel running T-slots
- Precisely machined surface
- Usable as a worksurface for extra high workpieces due to the rotatable drill table



控制箱

- 布局清晰
- Control cabinet**
- Clearly arranged structure

钻削深度限位

- 使用刻度尺调节
- Drilling depth stop**
- Adjustable using the millimetre scale

正反旋转

- 当攻丝的时候
- Right-/left handed rotation**
- when threading

工作灯：内置在机头内

- Machine lamp**
- Integrated in the drill head

铸件立柱

- 厚壁
- 高强度
- 稳定可靠
- Casting column**
- Thick-walled
- High power absorption
- Stable

过滤器

- 清洁粗糙部件处出来的冷却液
- Chip filter**
- Cleans the coolant from rough components

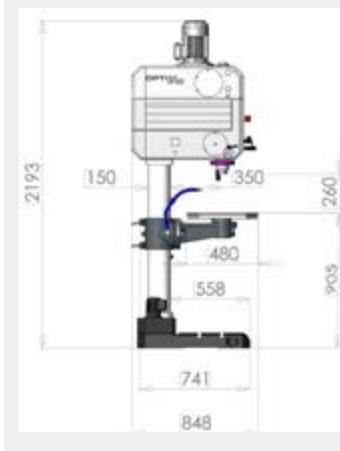
冷却装置

- 连续的
- 底座内置冷却箱
- 冷却箱体积为5升
- 排量是2升/分钟
- Coolant equipment**
- Serial
- Coolant tank integrated in the base plate
- Tank capacity 5 litres
- Delivery volume 2 l/min.

DRILLING 45E

机床技术参数 /Specification

型号	Model	Drilling 45 Drilling 45E	Dimensions
产品编号	Code No.	3304500 3334500	
加工范围	CAPACITY		
钻孔直径	Drilling capacity (max.)	Ø45mm	
攻丝直径	Threading in steel (max.)	M20	
工作范围	WORKING RANGE		
主轴直径	Sleeve diameter	Ø75mm	
主轴套筒行程	Sleeve travel	180mm	
主轴	SPINDLE		
主轴锥度	Spindle taper	MT4	
主轴中心线至立柱表面距离	Distance spindle-column	350mm	
速度	SPEEDS		
主轴转速	Spindle speeds	50-1450rpm	
转速级数	Number of steps	9 steps	
工作台	DRILLING TABLE		
工作台尺寸 (长×宽)	Table size(L×W)	560x560mm	
T型槽尺寸	T-slot size	18mm	
主轴端面至工作台面最大距离	Distance spindle-table(max.)	770mm	
底座尺寸(长×宽)	Working surface stand(L×W)	730x405mm	
主轴端面至底座表面最大距离	Distance spindle-stand(max.)	1320mm	
电机	ELECTRIC SUPPLY		
电机功率	Motor	0.85/1.5KW	
外形尺寸及重量	DIMENSIONS AND WEIGHT		
包装尺寸 (长×宽×高)	packing size(L×W×H)	2270x690x1100mm	
净重/毛重	Net weight/Gross weight	480/615kg	



标准附件

- 莫氏锥柄钻头 MT4
- 自紧式钻夹头
- Standard accessories
- Morse taper MT4
- Keyless chuck

可选附件

- 1. 快换钻夹头 MT4/1-16mm
- 2. 变径套 MT4-MT3
- 3. 钻接杆 MT4-B16
- 4. 麻花钻套装 Ø1-13mm
- 5. 夹紧工具 SPW12
- 6. 攻丝夹头 M5-M12
- 7. 机用平口钳 MSO 125/150,BMS 150/200, BSI 140/200
- 8. 脚踏开关

OPTIONAL EQUIPMENT

- 1. Quick-action drill chuck MT4/1-16 mm
- 2. Reducing bushes MT 4 - MT 3
- 3. Drilling chuck taper MT 4 - B16
- 4. Twist drill kit coated with titanium Ø 1-13 mm
- 5. Clamping tool kit SPW 12
- 6. Tapping chuck M5-M12
- 7. Machine vices:MSO 125/150,BMS 150/200,BSI 140/200
- 8. Foot pedal



DRILLING MACHINE

钻 床 DRILLING 50

优质、高效、高性价比

- 铸铁结构，结实耐用
- 铸铁立柱大尺寸、壁厚，运转平稳、性能稳定
- 通过油泵自动齿轮润滑
- 主轴经淬火、精加工，同心度高
- 齿轮打磨，保证运转平稳，性能稳定
- 攻丝机构
- 可锁式主开关，以及带安全保护的电机开关
- 主轴自动卸刀装置，换刀简单方便
- Drilling 50 带电磁主轴套筒进给

Convincing arguments: quality, efficiency and price

- Heavy, solid cast iron construction
- Smooth running and stability due to a largely dimensioned, thick-walled casting column
- Automatic gearwheel lubrication via oil pump
- High true running accuracy due to hardened and ground work spindle
- High smooth running due to grind-
- ed gearwheels
- Threading mechanism
- Lockable main switch and protective motor switch
- Spindle locking with integrated drill drift for a simple tool change
- Drilling 50 with electromagnetic spindle sleeve feed

钻削深度限位

- 使用刻度尺调节
- 毫米尺度

Drilling depth stop

- Adjustable
- Millimetre scale

主轴套筒进给

- 通过手轮

Spindle sleeve fine feed

- Via handwheel

内置退刀块

- 弹射结构，换刀更简单方便

Integrated drill drift

- Easy tool change due to ejection mechanism

工作台

- 大尺寸
- 结实耐用
- 加工精密
- 带T型槽
- 背部强筋加固
- 工作台通过齿条调节高度
- 360度旋转
- 冷却剂通道

Drilling table

- Largely dimensioned
- Solid
- Precisely worked
- Transversally running T-slots
- Heavily ribbed at the rear side
- Rotation of 360° through its own axis and about the column
- Coolant channel

底座

- 工作台转向一边即可加工超高尺寸工件
- 结实耐用
- 带T型槽
- 工作面精加工

Base plate

- Usable as a working surface for extra high workpieces due to the rotatable drill table
- Solid
- Parallel running T-slots
- Precisely machined at the surface



主轴套筒进给

- 自动
- 按动星形手柄上的按钮激活

Spindle sleeve feed

- Automatic
- Infeed is activated by means of push buttons in the star grip



- 深度钻削或打孔时，自动主轴套筒进给耦合器可在启动主轴进给开关的时候开启或者关
- For deep drillings or pocket hole drillings, the coupler of the automatic spindle sleeve feed can be opened or closed at any time by actuating the spindle feed switch

钻夹头防护罩

- 最大限位保护用户的安全
- 高度可调
- 带微动开关

Chuck guard

- Best possible protection of the user
- Height-adjustable
- Micro switch

新的

- 电动工作台高度可调
- New
- Motor table height adjustment

冷却装置

- 连续的
- 底座内置冷却箱
- 冷却箱体积为5升
- 排量是2升/分钟

Coolant equipment

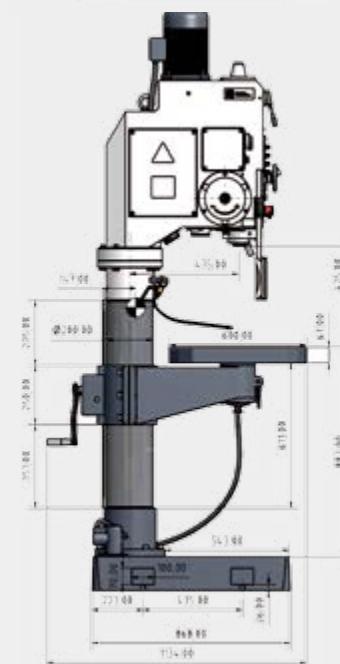
- Serial
- Coolant tank integrated in the base plate
- Tank capacity 5 litres
- Delivery volume 2 l/min.

过滤器

- 清洁粗糙部件处出来的冷却液
- Chip filter
- Cleans the coolant from rough components

机床技术参数 /Specification

型号	Type	Drilling 50
产品编号	Item No	3305000
电器容量	Electrical connection	
主电机功率	Total connected value	3.0 / 2.4 kW 400 V / 3 Ph ~50 Hz
冷却泵电动功率	Motor coolant pump	40 W
加工范围	Drilling capacity	
钻孔直径	Drilling capacity in steel (S235JR)	Ø 50 mm
连续钻孔直径	Continuous drilling capacity in steel	Ø 45 mm
攻丝直径	Thread cutting in steel	M 42
主轴	Spindle seat	
主轴套筒行程	Spindle sleeve stroke	230 mm
主轴锥度	Spindle taper	MT 4
孔径	Throat	Ø 375 mm
自动主轴进给	Autom. spindle sleeve feed	6 steps, 0.05/0.3 mm/rev
速度	Speeds	
主轴转速	Spindle speeds	54 - 2'090 rpm
转速级数	Number of steps	18 steps
工作台	Drilling table	
工作台尺寸	Work surface table length x width	600 x 600 mm
T型槽尺寸	T-slot size	18 mm
工作台最大负载	Load drilling table	400 kg
工作台旋转	Drilling table slewable	360°
主轴端面至工作台面最大距离	Distance spindle - table (max.)	800 mm
底座工作面尺寸	Working surface stand length x width	600 x 520 mm
主轴端面至底座最大距离	Distance spindle - stand (max.)	1'300 mm
尺寸	Dimensions	
立柱尺寸	Column diameter	Ø 200 mm
包装尺寸(长x宽x高)	Length x width x height	1'134 x 600 x 2'460 mm
总重量	Total weight	950 kg

Dimensions

标准附件

- 莫氏锥柄钻头 MT4
- 钻夹头
- 快换钻夹头 0-16mm
- T 型槽

Standard accessories

- Morse taper MT4
- Drill chuck
- Quick-action drill chuck 0-16mm
- T-slots

可选附件

- 1. 快换钻夹头 MT4/1-16mm
- 2. 变径套 MT4-MT3
- 3. 钻接杆 MT4-B16
- 4. 麻花钻套装 MT3
- 5. 夹紧工具 SPW16
- 6. 攻丝夹头 M5-M12

OPTIONAL EQUIPMENT

1. Quick-action drill chuck MT4/1-16 mm
2. Reducing bushes MT 4 - MT 3
3. Drilling chuck taper MT 4 - B16
4. Twist drill kit HSS incl. Morse taper MT3
5. Clamping tool kit SPW 16
6. Tapping chuck M5-M12



ELECTR-MAGNETIC BASE DRILL

磁 座 钻 MBD 19/25/38



MBD 19



MBD 25



MBD 38

机床技术参数 /Specification

型号 Model	MBD19	MBD25	MBD38
产品编号 Code No.	3601900	3602500	3603800
钻孔直径 Max.drilling capacity	Ø19mm	Ø23mm	Ø32mm
额定转速 Rated speed	350r/min	330r/min	150r/min
额定电压 Rated voltage	220V	220V	380V
额定频率 Rated frequency	50Hz	50Hz	50Hz
额定输入功率 Rated output power	850W	1100W	1600W
最大行程 Max.travel	180mm	180mm	220mm
电磁铁吸力 Electromagnetism	11000N	13000N	16000N
包装尺寸 Packing size	410x200x510mm	410x200x510mm	530x280x680mm
净重 Net weight	30kg	30kg	50kg

可选附件 OPTIONAL EQUIPMENT



OPTIMUM quick-action drill chuck

- True running accuracy ≤ 0.06 mm

0 - 8 mm; B16	305 0608
0 - 10 mm; B16	305 0610
0 - 13 mm; B16	305 0623
0 - 16 mm; B16	305 0626



ROHM Quick-action drill chuck

1 - 13 mm; B16	305 0656
3 - 16 mm; B16	305 0657



OPTIMUM Direct quick-action drill chuck

MT 2 1 - 13 mm	305 0572
• up to 8'000 min ⁻¹	
MT 2 1 - 16 mm	305 0571
• up to 6'000 min ⁻¹	
MT 3 1 - 16 mm	305 0573
• up to 6'000 min ⁻¹	
MT 4 1 - 16 mm	305 0574
• up to 6'000 min ⁻¹	



Reducing bushes

MT 3 - MT 2	305 0663
MT 4 - MT 3	305 0664
MT 4 - MT 2	305 0665



Morse taper

MT 2 - B16	305 0659
MT 3 - B16	305 0660
MT 4 - B16	305 0661
MT 5 - B16	305 0675
MT 6 - B16	305 0676



Extension bushings

MT 2 - MT 3	305 0667
MT 3 - MT 4	305 0668



Tapping chuck M5 - M12

- Integrated quick return, immediately effective when changing the feed direction
 - Sliding clutch 4-stage adjustable
 - With seat B16
- Standard equipment:
- 2 flexible collets
 - 2 open-end wrenches
 - 1 Allen key



Twist drill kit 25-pieces

305 1010

- Coated with titanium
- Sizes 1 - 13 mm
- Higher service life and durability
- Higher hardness than hard metal
- More rapid working results
- Lower wear



Twist drill kit HSS incl. Morse taper

- 9 pieces; Sizes 14,5/16/18/20/22/24/26/28/30 mm

Twist drill MT 2

305 1002

Twist drill MT 3

305 1003



Clamping tool kit SPW 58 pcs

- | | |
|--------------------------|--------------------------|
| • Practical wall bracket | • Metric threads |
| • 24 pcs draw-in bolts | • 6 pcs T-slots |
| • 4 pcs elongation nuts | • 6 pcs nuts |
| • 6 pcs step blocks | • 12 pcs clamping blocks |

SPW 8

335 2015

- T-slots 10 mm . Draw bar thread M 8

SPW 10

335 2016

- T-slots 12 mm . Draw bar thread M 10

SPW 12

335 2017

- T-slots 14 mm . Draw bar thread M 12

SPW 14

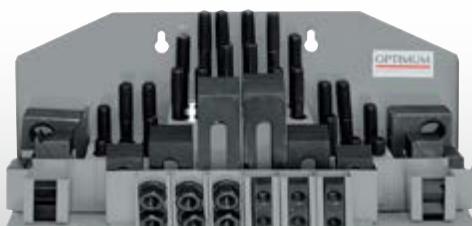
335 2018

- T-slots 16 mm . Draw bar thread M 14

SPW 16

335 2019

- T-slots 18 mm . Draw bar thread M 16



Universal coolant equipment

- Delivery height max. 2.5 m
- Delivery volume 8 l/min
- Tank capacity 11 l
- Tank size L x W x H: 370 x 245 x 170 mm
- Complete including tank, flexible tube, hose
- With switch-plug combination
- Magnetic anchoring
- For self-assembly

**Universal coolant equipment
230 V/1 Ph**

335 2002

**Universal coolant equipment
400 V/3 Ph**

335 2001



Coolant lubricant sprayer MMC1

335 6663

- Magnetic stand
- Foot size L x W x H: 62 x 50 x 55 mm
- Connecting coupling for external compressed air supply
- Magnetic stand holding force 75 kg
- Flexible and rigid hose
- Length of the coolant hose 500 mm



Coolant hose KMS 2

335 6660

- Two variable coolant hoses made of individual plastic elements
- Not electroconductive
- Magnetic stand holding force up to 50 kg
- Length of the coolant hoses 335 mm
- Flexible and stable
- Resistant against most solvents and chemicals
- Universally applicable on all machine tools



Cone drill drift

MSP 1 for MT 1 - MT 3	305 0636
MSP 2 for MT 4 - MT 6	305 0637

**Cross table KT**

- Coolant channel
- Adjustable dovetail guide
- Adjustable handwheel scaling with a division of 0.05 mm

KT 120	335 6595
KT 179	335 6596
KT 180	335 6591
KT 210	335 6600

Technical data		KT 120	KT 179	KT 180	KT 210
Length	mm	506	748	945	1'065
Width	mm	400	483	483	555
Height	mm	140	148	169	200
T-slot size	mm	10	12	12	14
Table length	mm	400	500	700	730
Table width	mm	120	180	180	210
Load of cross table	kg	40	55	55	80
Pedestal width	mm	220	274	274	280
Pedestal length	mm	280	340	340	362
Travel X axis	mm	220	280	480	480
Travel Y axis	mm	165	175	175	210
Net weight	kg	22	32	49	84

LED - Machine lamp 3-500

335 1010

- Energy saving
- Durable LED lamp
- High positioning stability
- Coated articulated arm with a length of 500 mm
- Optimum mobility of the articulated arm
- Cable length 1.2 m
- Illumination temperature 4000 - 4500 K
- Protection class IP 65
- 24 V illuminant
- 9 watts/230 V connection



Fig.: KT 180

Lathe machines



LATHE MACHINE

OPTIMUM

TU1503V/TU1804V D2

TU2004V D3

TU2304/2304V D5

TU2404/2404V/2406V D7

TU2506/2506V/2807/2807V..D9

D320x630/920 D11

TU3209V D13

D330x1000 D15

D360x1000 D17

TU3610V D19

D420x1000/1500 D21

TU4210V D23

TM4010 D25

TX4412/TX5216/TX6222 D27

TOPTECH

TURNER 140/TURNER 180 D29

TURNER 210(V)/250F(V) D31

TURNER 240(V)/280F(V) D33

TURNER 250M(V)/280M(V) ... D35

TU2907 D37

TU3008/TU3008V D38

TU3008G D39

TURNER 320/360L/3610 D41

TURNER 360/380H D43

TURNER 400x1000 D45

TURNER 400L D47

TURNER 420x1000/1500 D49

TURNER 410/460/510/560....D51

TURNER 530/600/680 D53

TURNER 660/800 D55

Turner 800H/1000H/1200H.. D57

Turner 1000HD/1200HD..... D59

Turner 1400HM/1600HM D61

Turner 1600HI/1800HI D63

Turner 1280HH/1480HH/1680HH

/1980HH/2080HH D65

Turner 1600HH/1800HH/2000HH

..... D67

Toolmaxx D69

The new compact lathe with electronically adjustable speed. Perfect for the model maker

Convincing arguments: quality, efficiency and price

- DC motor
- Ribbed prism bed made of grey cast iron, inductively hardened and ground
- Hardened and ground bed guideways
- Guaranteed true running accuracy of the spindle nose better than 0.015 mm
- True running accuracy - Lathe chuck max 0.05 mm
- With leading spindle for threading or automatic longitudinal turning
- With longitudinal slide, cross slide and top slide
- Automatic longitudinal/leading spindle drive
- Right-/left-handed rotation switchable on the control panel
- Lathe chuck protection with microswitch
- Handwheels with adjustable precision scaling of 0.04/0.01 mm
- Double tool holder
- All guideways adjustable via V-ledges free of play
- Comprehensive accessory
- Emergency stop push button
- Low power electronics
- Acceptance certificate



Fig.: TU 1503V

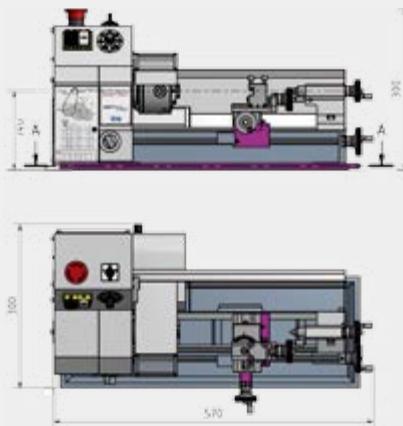
Type	TU 1503V	TU 1804V
Item No	342 0260	3420280
Machine data		
Electrical connection	230 V / 1 Ph ~50 Hz	230 V / 1 Ph ~50 Hz
Motor power	450 W	450 W
Working areas		
Centre height	75 mm	90 mm
Centre width	250 mm	400 mm
Turning diameter (max.)	150 mm	180 mm
Bed width	70 mm	70 mm
Speeds		
Number of steps	Electronically adjustable speed	Electronically adjustable speed
Headstock		
Spindle taper	MT 1	MT 1
Spindle drilling	Ø 11 mm	Ø 11 mm
Slide		
Travel top slide	40 mm	40 mm
Travel cross slide	55 mm	55 mm
Longitudinal feed	0.05 - 0.1 mm/rev	0.05 - 0.1 mm/rev
Pitch - Metric (11)	0.5 - 1.5 mm/rev	0.5 - 1.5 mm/rev
Tool holder seat height	12 mm	12 mm
Tailstock		
Tailstock taper	MT 1 shortened	MT 1 shortened
Tailstock - sleeve travel	30 mm	30 mm
Dimensions L x W x H		720 x 415 x 345 mm
NW/GW		23/26 kg
		810 x 430 x 380 mm
		26.5/30 kg

Convincing arguments...



- Wide range of threading due to change gear kit
- Simple and rapid speed change via V-belt

Dimensions



Standard equipment

Three jaw lathe chuck Ø 80 mm, fixed centre point MT1, lathe chuck protection, splashback, chip tray, 2-fold tool holder, change gear kit, acceptance certificate

Accessories	Item No
Four jaw lathe chuck Ø 80 mm	344 0286
Follow rest	344 0210
Steady rest	344 0211
Revolving centre MT 1	344 0700
Collet chuck ER 16	344 0281
Collet chuck kit ER 16, 1 - 10 mm, 12 pcs.	344 0282
Lathe tool kit 8 mm, 11 pcs	344 1008
Lathe tool kit HM 8 mm, 7 pcs	344 1011

vario drive

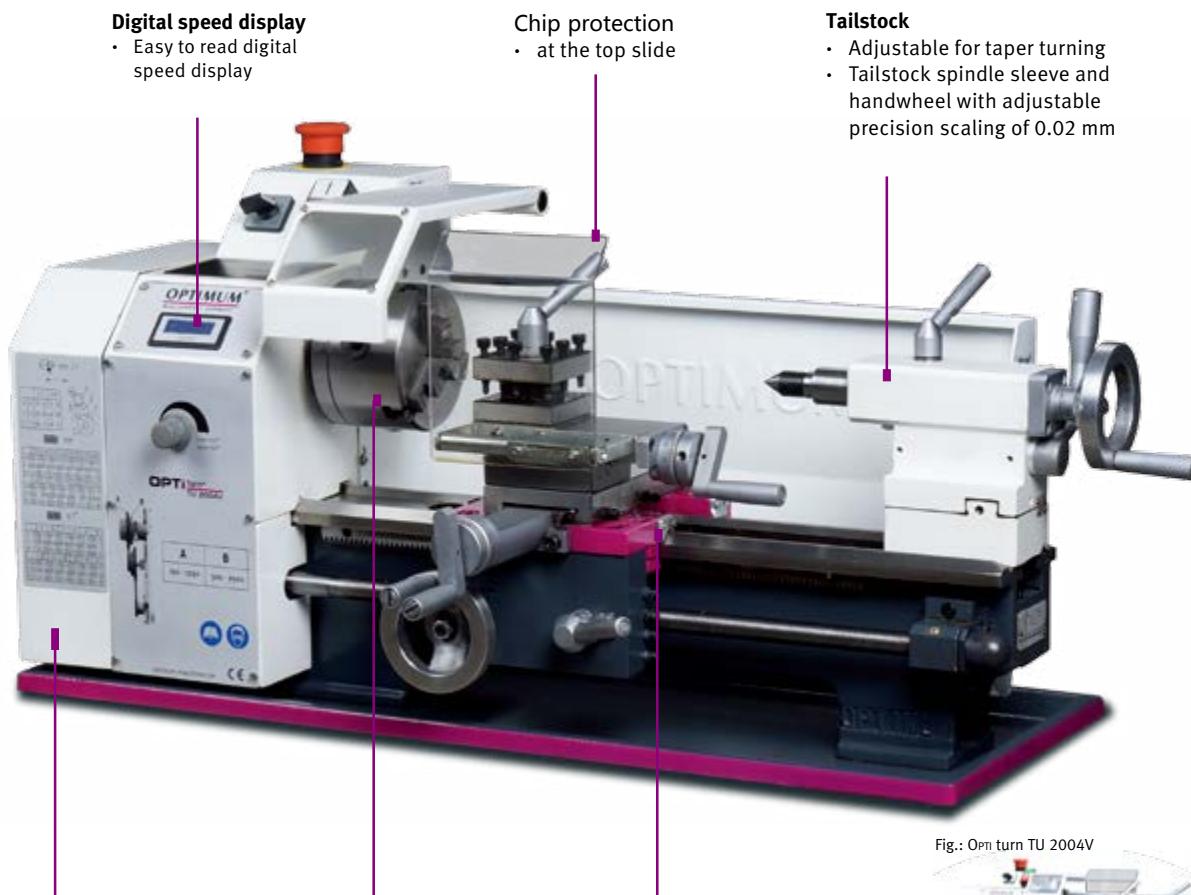
LATHE

Lathe with digital speed display and infinitely variable speed control

Convincing arguments: quality, efficiency and price

- Precise manufacturing
- Heavily ribbed prism bed made of steel casting, inductively hardened and precision ground
- Hardened and ground bed guideways
- Hardened spindle nose (DIN 6350)
- Guaranteed true running accuracy of the spindle nose of better than 0.009 mm
- Automatic longitudinal/leading spindle drive
- With longitudinal slide, cross slide and top slide
- Right-/left-handed rotation switchable on the control panel
- Emergency-stop push button and low-voltage release
- Lathe chuck protection
- Thrust bearing
- Leading spindle run on two porous bearings
- Large threading range due to set of change gears
- Change gear train
- Acceptance certificate

vario drive



Main spindle

- Hardened and with re-adjustable accurate taper roller bearings
- Taper roller bearing of P5 quality
- Cylindrical centring consumption
- hardened spindle nose with a spindle hole of Ø 21 mm

Lathe chuck

- True running accuracy of better than 0.04 mm

Quadruple tool holder

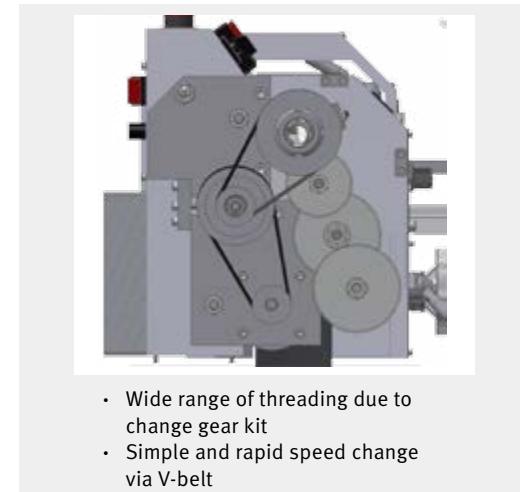
- turnable
- Rolled trapezoid thread
- Leading spindle



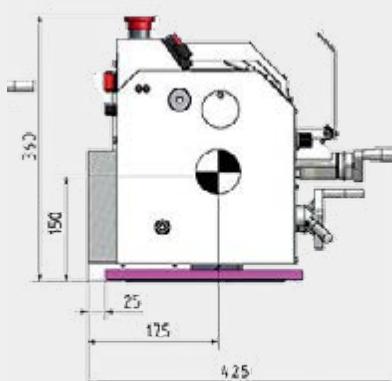
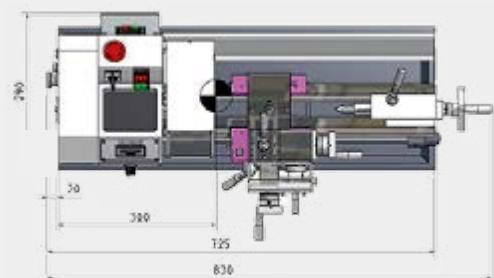
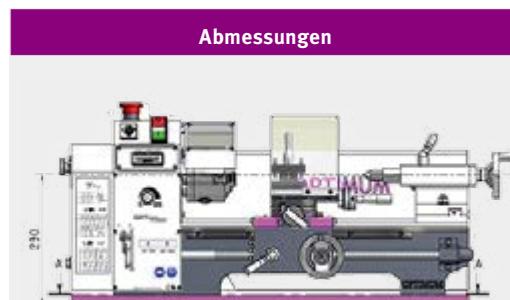
Accessories	Machine substructure
Item No	344 0409

Type	TU 2004 V
Item No	342 0310
Machine datas	
Electrical connection	230 V / 1 Ph ~50 Hz
Motor power	600 W
Working areas	
Centre height	100 mm
Centre width	300 mm
Turning diameter (max.)	200 mm
Turning Ø over cross slide	110 mm
Bed width	100 mm
Speeds	
Spindle speeds	150 - 2'500 min ⁻¹
Number of steps	2 steps, electrically adjustable speed
Headstock	
Spindle taper	MT 3
Spindle drilling	Ø 21 mm
Passage 3-jaw chuck	20 mm
Slide	
Travel top slide	55 mm
Travel cross slide	75 mm
Longitudinal feed	0.1/0.2 mm/rev
Pitch - Metric (11)	0.5 - 3 mm/rev
Pitch - Inch (8)	44 - 10 threads/1"
Tool holder seat height	Max. 12 mm
Tailstock	
Tailstock taper	MT 2
Tailstock - sleeve travel	65 mm
Dimensions L x H x W	
Dimensions L x H x W	830 x 425 x 360 mm
Net weight	61 kg
Standard equipment	
	Three jaw chuck Ø 100 mm Steady centre MT 2 and MT 3 Splash board and Chip tray Quadruple tool holder Change gear kit Operating tool
Accessories	
Four jaw lathe chuck Ø 100 mm	Item No
(centric) Speed: 3'400 min ⁻¹	344 2810
Flange for lathe chucks Ø 100 mm	344 0312
Face clamping disc Ø 170 mm	344 0295
Follow rest	344 0230
Steady rest	344 0231
Revolving centre MT2	344 0702
Quick action tool holder SWH-AA	338 4311
Lathe tool kit HM 10 mm, 7 pcs	344 1111
Lathe tool kit 10 mm, 11 pcs	344 1108
Workshop assembly SWH	900 0401

Convincing arguments...



- Wide range of threading due to change gear kit
- Simple and rapid speed change via V-belt



Lathes for the demanding do-it-yourselfer. TU 2304V with electronically infinitely variable drive.

Convincing arguments: quality, efficiency and price

- Precise manufacturing
 - Hardened and ground guideways
 - Guaranteed true running accuracy of the spindle nose better than 0.009 mm
 - True running accuracy - Lathe chuck better than 0.05 mm
 - With leading spindle for threading or automatic longitudinal turning
 - Right-/left-handed rotation switchable on the control panel
 - Rolled trapezoid spindles
 - Emergency-stop push button and low-voltage release
 - Comprehensive accessory
 - Acceptance certificate
 - Stable value
- TU 2304 V**
- Speed change easily adjustable via potentiometer
 - Digital speed display

conventional/Vario

Change gear kit

- for threading
- Simple and rapid speed change via V-belt

Taper roller bearing

- two pieces
- of P5 quality

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.01 mm
- Quadruple tool holder
- All guidings adjustable via V-ledges

Tailstock

- Adjustable by ± 5 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.02 mm

Prism bed

- Solid and tempered made of grey cast iron
- Matured at least for six months
- Inductively hardened (HRC 42-52)
- Precision ground

Thrust bearing

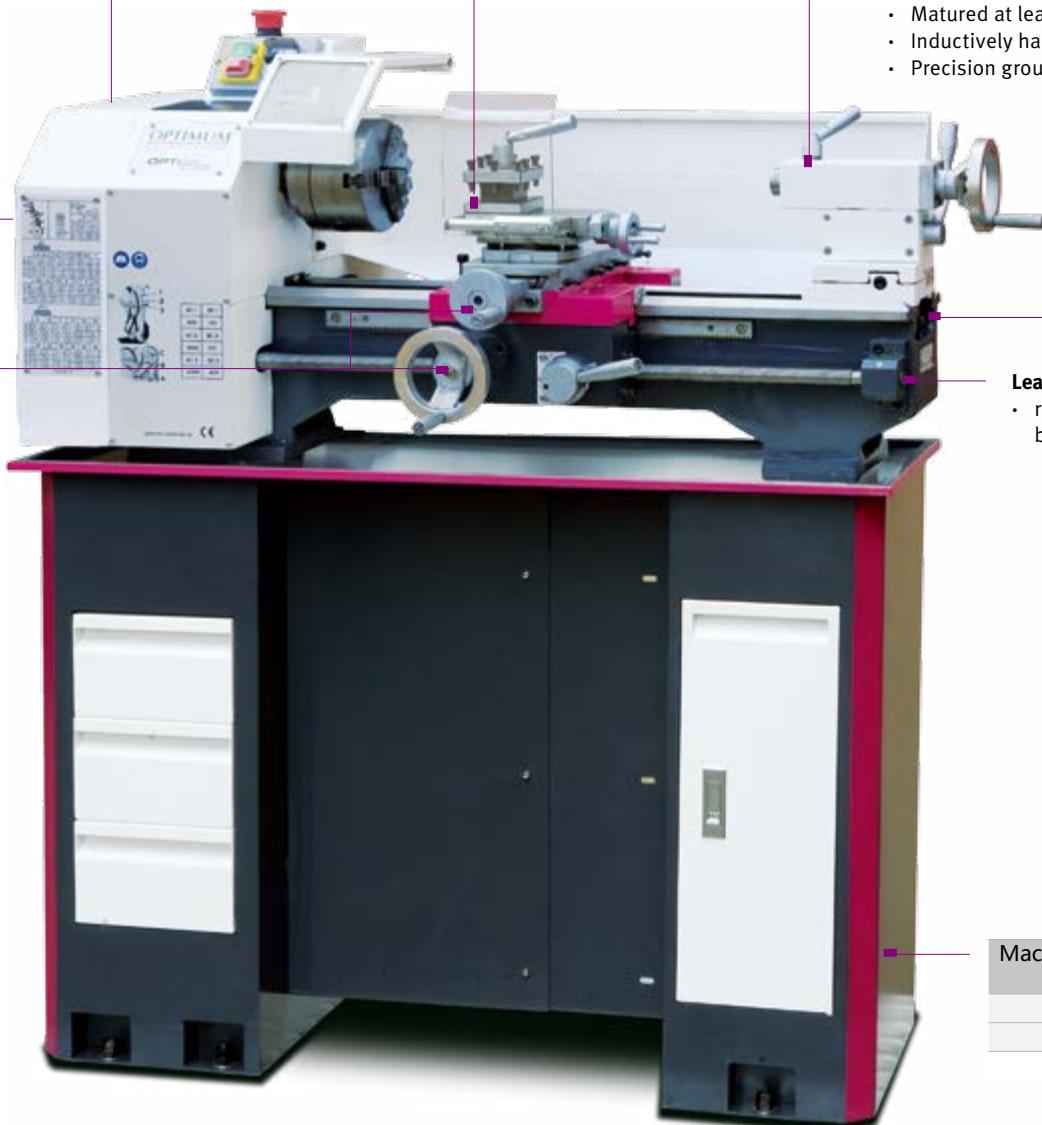
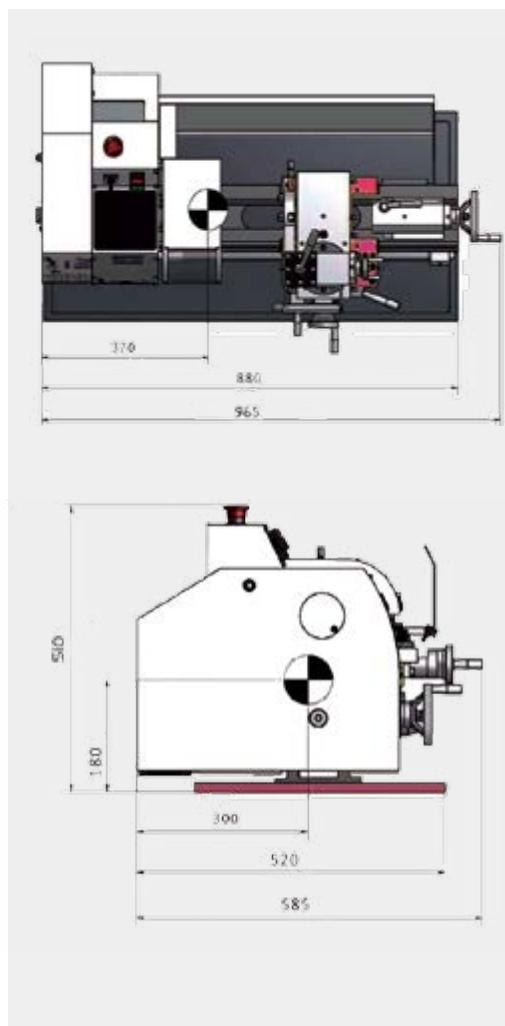


Fig.: Opti turn TU 2404 with optional machine base

Type	TU 2304
Item No	342 0320
Type	TU 2304V
Item No	342 0325
Machine data	
Electrical connection	230 V / 1 Ph ~50 Hz
Motor power	750 W
Working areas	
Centre height	115 mm
Centre width	450 mm
Turning Ø over lathe bed	230 mm
Bed width	135 mm
Speeds	
Spindle seat	Ø 72 mm
Spindle speed	125 - 2'000 min ⁻¹
Number of steps	6 steps
Spindle speed Vario machines	150 - 2'200 min ⁻¹
Number of steps Vario machines	2 steps, electronically adjustable speed
Headstock	
Spindle taper	MT 3
Spindle drilling, rod passage	Ø 20 mm
Slide	
Travel top slide	75 mm
Travel cross slide	120 mm
Pitch - Metric in the range of	0.4 - 3.5 mm/rev
Pitch - Inch in the range of	44 - 10 Threads/1"
Quadruple tool holder seat height	14 x 14 mm
Tailstock	
Tailstock seat	MT 2
Tailstock - sleeve travel	70 mm
Dimensions	
Length x width x height	965 x 585 x 510 mm
Net weight	114 kg
Net weight Vario machines	111 kg



Standard equipment	Accessories	Item No
Three jaw chuck Ø 100 mm	Three jaw chuck Ø 125 mm, Speed 3'000 min ⁻¹	344 2712
Steady centre MT 2	Four jaw chuck Ø 125 mm, Speed 2'750 min ⁻¹	344 2812
Steady centre MT 3	Three jaw chuck CI3P Ø 125 mm cast iron, Speed 3'200 min ⁻¹	344 2020
Splash board	Three jaw chuck CS3C Ø 125 mm steel, Speed 4'800 min ⁻¹	344 2520
Chip tray	Flange for three jaw chuck Ø 125 mm	344 0511
Quadruple tool holder	Flange for four jaw chuck Ø 125 mm	344 0512
Change gear kit	Face clamping disc Ø 200 mm	344 0352
Operating tool	Revolving centre MT2	344 0702
	Steady rest	344 0361
	Follow rest	344 0360
	Lathe tool kit HM 8 mm, 7 pcs	344 1011
	Lathe tool kit HM 10 mm, 7 pcs	344 1111
	Lathe tool kit 10 mm, 11 pcs	344 1108
	Lathe tool kit HM 12 mm, 9 pcs	344 1211
	Collet chuck kit ER 25, 1 - 16 mm	344 1109
	Collet chuck holder for collet chuck ER 25	344 0505
	Quick change tool holder SWH 1-A	338 4301
	Workshop assembly SWH	900 0401

Lathes for the demanding do-it-yourselfer. TU 2404V / TU 2406V with electronically infinitely variable drive.

Convincing arguments: quality, efficiency and price

- Precise manufacturing
- Hardened and ground guideways
- Guaranteed true running accuracy of the spindle nose better than 0.009 mm
- True running accuracy - Lathe chuck better than 0.05 mm
- With leading spindle for threading or automatic longitudinal turning
- Right-/left-handed rotation switchable on the control panel
- Rolled trapezoid spindles

- Emergency-stop push button and low-voltage release
- Comprehensive accessory
- Acceptance certificate
- Stable value

TU 2404 V/ TU 2406 V

- Speed change easily adjustable via potentiometer
- Digital speed display

conventional/variо

Change gear kit

- for threading
- Simple and rapid speed change via V-belt

Taper roller bearing

- two pieces
- of P5 quality

Thrust bearing

Leading spindle

- run on two porous bearings



Prism bed

- Solid and tempered made of grey cast iron
- Matured at least for six months
- Inductively hardened (HRC 42-52)
- Precision ground

Accessories	Machine substruc-ture
Item No	344 0409

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.01 mm
- Quadruple tool holder
- All guidings adjustable via V-ledges

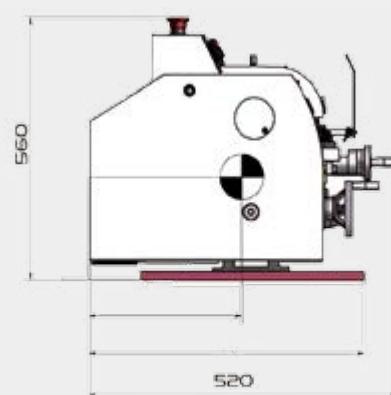
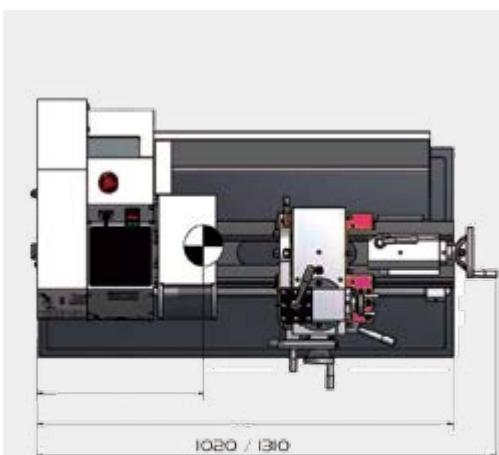
Tailstock

- Adjustable by ± 5 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.02 mm



Fig.: Opti turn TU 2404 with optional machine base

Type	TU 2404	TU 2406
Item No (230 V)	342 0330	-
Item No (400 V)	342 0333	-
Type	TU 2404V	TU 2406V
Item No (230 V)	342 0335	342 0355
Machine data		
Electrical connection	230 V or 400 V	-
Motor power	750 W	-
Connection Vario machine	230 V / 1 Ph ~50 Hz	
Motor Vario machine	1.1 kW	
Working areas		
Centre height	125 mm	
Centre width	450 mm	550 mm
Turning Ø over lathe bed	250 mm	
Bed width	135 mm	
Speeds		
Spindle seat	Ø 52 mm	
Spindle speed	125 - 2'000 min ⁻¹	
Number of steps	6 steps	-
Spindle speed Vario machines	150 - 2'500 min ⁻¹	
Number of steps Vario machines	2 steps, electronically adjustable speed	
Headstock		
Spindle taper	MT 3	
Spindle drilling, rod passage	Ø 21 mm	
Slide		
Travel top slide	75 mm	
Travel cross slide	120 mm	
Pitch - Metric in the range of	0.4 - 3.5 mm/rev	
Pitch - Inch in the range of	44 - 10 Threads/1"	
Quadruple tool holder seat	14 x 14 mm	
Tailstock		
Tailstock seat	MT 2	
Tailstock - sleeve travel	70 mm	
Dimensions		
Length x width x height	1'020 x 520 x 560 mm	1.310 x 520 x 560 mm
Net weight	110 kg	127 kg



Standard equipment	Three jaw chuck Ø 125 mm Steady centre MT 2 Steady centre MT 3 Splash board Chip tray Quadruple tool holder Change gear kit Operating tool	Accessories	Item No
		Three jaw chuck Ø 125 mm, Speed 3'000 min ⁻¹	344 2712
		Four jaw chuck Ø 125 mm, Speed 2'750 min ⁻¹	344 2812
		Three jaw chuck CI3P Ø 125 mm cast iron, Speed 3'200 min ⁻¹	344 2020
		Three jaw chuck CS3C Ø 125 mm steel, Speed 4'800 min ⁻¹	344 2520
		Flange for three jaw chuck Ø 125 mm	344 0511
		Flange for four jaw chuck Ø 125 mm	344 0512
		Face clamping disc Ø 250 mm	344 0552
		Revolving centre MT2	344 0702
		Steady rest	344 0515
		Follow rest	344 0510
		Lathe tool kit HM 8 mm, 7 pcs	344 1011
		Lathe tool kit HM 10 mm, 7 pcs	344 1111
		Lathe tool kit 10 mm, 11 pcs	344 1108
		Lathe tool kit HM 12 mm, 9 pcs	344 1211
		Collet chuck kit ER 25, 1 - 16 mm	344 1109
		Collet chuck holder for collet chuck ER 25	344 0505
		Quick change tool holder SWH 1-A	338 4301
		Workshop assembly SWH	900 0401

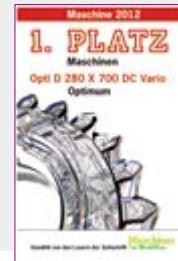
**Lead screw lathes with feed gear for demanding users.
Vario type with infinitely variable speed control for brushless motor**

OPTIMUM
The original

Convincing arguments: quality, efficiency and price

- Precise manufacturing
- Powerful, maintenance free motor
- Heavily ribbed prism bed made of grey cast iron, inductively hardened and precision ground
- Hardened and ground bed guideways
- Guaranteed true running accuracy of the spindle nose better than 0.009 mm
- True running accuracy of the lathe chuck better than 0.04 mm
- Automatic longitudinal/leading spindle drive
- With leading spindle for threading or automatic longitudinal turning
- Right-/left-handed rotation switchable on the control panel

- Leading spindle run on two porous bearings
 - Handwheels on the slide with adjustable precision scaling of 0.04/0.01 mm
 - With change gear kit for threading
 - Thrust bearing
 - Emergency-stop push button and low-voltage release
 - Acceptance certificate
- TU 2506 V / TU 2807 V**
- Smooth and high-performance DC drive with excellent control characteristics
 - High-precision tool chuck for higher speeds
 - Speed change easily adjustable via potentiometer
 - Digital speed display



05.2012

conventional/vario

Powerful Brushless drive

- Particularly smooth running
- Nearly constant torque over the entire speed range
- High power output



Main spindle

- Hardened and with re-adjustable precision taper roller bearings
- Two taper roller bearing of P5 quality
- Short taper, hardened spindle nose with a spindle hole of Ø 26 mm

Feed gear

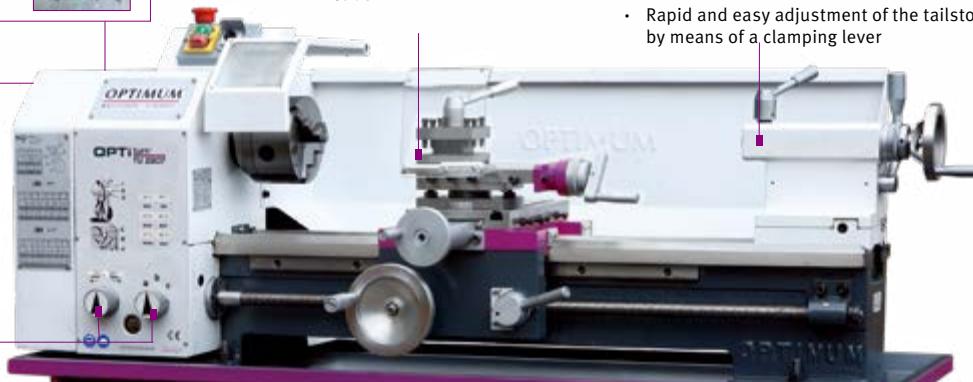
- Smooth running
- Rounded toothed wheels
- running in the oil bath

Slide

- Quadruple tool holder
- All guideways adjustable via V-ledges free of play
- Rolled trapezoid spindles
- Chip protection at the top slide

Tailstock

- Adjustable by ± 5 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.02 mm
- Rapid and easy adjustment of the tailstock by means of a clamping lever



Accessories	Machine substruc-
Item No	344 0409

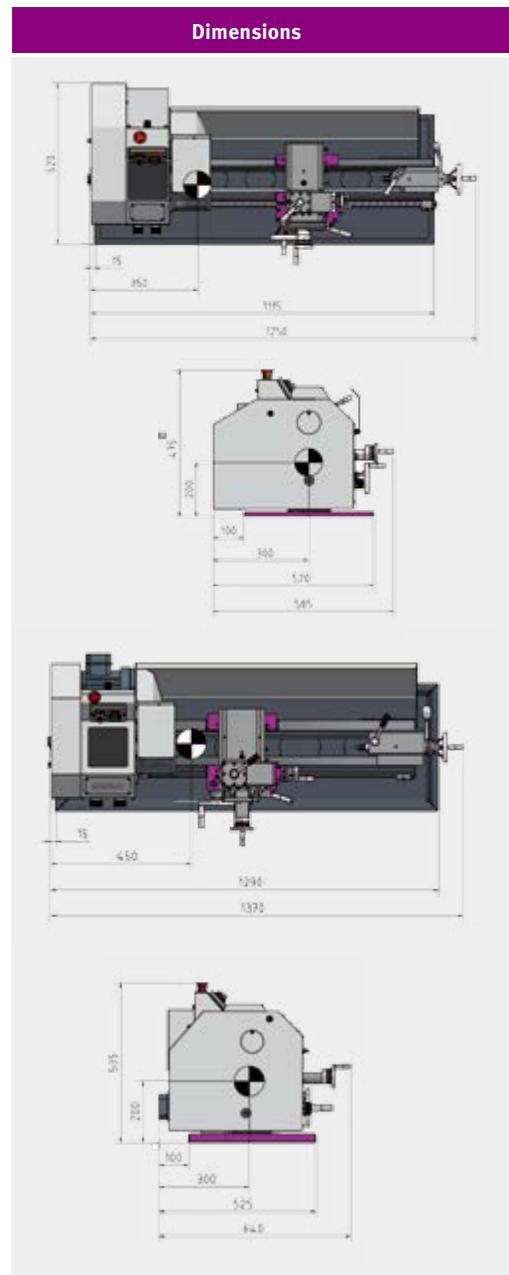


Fig.: Opti turn TU 2506

Fig.: Opti turn TU 2807

Technical data and accessories

Type	TU 2506	TU 2807
Item No (230 V)	342 5001	342 7001
Item No (400 V)	342 5003	342 7003
Type	TU 2506V	TU 2807V
Item No (230 V)	342 5006	342 7006
Machine data		
Electrical connection	230 V / 1 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
Motor	750 W	850 W
Connection Vario machine	230 V / 1 Ph ~50 Hz	
Motor Vario machine	1.5 kW	
Working areas		
Centre height	125 mm	140 mm
Centre width	550 mm	700 mm
Turning Ø over lathe bed	250 mm	266 mm
Bed width	135 mm	180 mm
Speeds		
Spindle speed	125 - 2'000 min ⁻¹	150 - 2'000 min ⁻¹
Number of steps	6 steps	
Spindle speed Vario machines	30 - 4'000 min ⁻¹	
Number of steps Vario machines	4 steps, electrically adjustable speed	
Headstock		
Spindle taper	MT 4	
Spindle drilling, rod passage	Ø 26 mm	
Slide		
Travel top slide	70 mm	60 mm
Travel cross slide	110 mm	160 mm
Longitudinal feed in the range of	0.07 - 0.2 mm/rev	
Pitch - Metric in the range of	0.2 - 3.5 mm/rev	
Pitch - Inch in the range of	56 - 8 threads/1"	
Quadruple tool holder seat height	(max.) 13 mm	(max.) 13.5 mm
Tailstock		
Tailstock seat	MT 2	
Tailstock - sleeve travel	65 mm	85 mm
Dimensions		
Length x width x height	1'250 x 585 x 475 mm	1'370 x 640 x 535 mm
Length x Width x Height Vario	1'250 x 650 x 420 mm	1'370 x 660 x 440 mm
Net weight	125 kg	180 kg
	3-jaw lathe chuck Ø 125 mm, steady centre MT2 / MT4, drill chuck protection, lathe tool made of high speed steel, lathe dog, quadruple tool holder Change gear kit, operating tool	
Standard equipment		



Accessories TU 2506 / TU 2506 V	Item No
Face clamping disc Ø 240 mm	344 1352
Steady rest Ø max. 50 mm	344 1315
Follow rest Ø max. 34 mm	344 1310
Revolving centre MT2	344 0702
Lathe tool kit HM 10 mm, 7 pcs	344 1111
Lathe tool kit 10 mm, 11 pcs	344 1108
Lathe tool kit HM 12 mm, 9 pcs	344 1211
Collet chuck kit ER 25, 1 - 16 mm	344 1109
Collet chuck kit ER 32, 3 - 20 mm	344 1122
Collet chuck ER 25	344 1305
Collet chuck ER 32	344 1306
Quick change tool holder SWH 1-A	338 4301
Workshop assembly SWH	900 0401
Add-on adaptor column/milling head BF20V	335 6572
Add-on adaptor column/milling head BF16V	335 6568
BF20AV - milling head and column of a BF20V	333 8129

Accessories TU 2807 / TU 2807 V	Item No
Face clamping disc Ø 265 mm	344 1452
Flange for lathe chucks Ø 160 mm	344 1413
Steady rest Ø max. 55 mm	344 1415
Follow rest Ø max. 56 mm	344 1410
Revolving centre MT2	344 0702
Lathe tool kit HM 10 mm, 7 pcs	344 1111
Lathe tool kit 10 mm, 11 pcs	344 1108
Lathe tool kit HM 12 mm, 9 pcs	344 1211
Collet chuck kit ER 25, 1 - 16 mm	344 1109
Collet chuck kit ER 32, 3 - 20 mm	344 1122
Collet chuck ER 25	344 1305
Collet chuck ER 32	344 1306
Quick change tool holder SWH 1-A	338 4301
Workshop assembly SWH	900 0401
Add-on adaptor column/milling head BF20V	335 6572
Add-on adaptor column/milling head BF16V	335 6568

Completely equipped centre lathe with feed mechanism running in the oil bath. DPA version with digital position display DPA 2000

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock spindle seat DIN ISO 702-2 Nr. 4
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Electrical system with Siemens components
- Emergency-stop push button, protective motor switch, lockable main switch
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Chip protection at the top slide
- Cover for leading spindle
- Machine substructure including tool compartment
- Acceptance certificate

DPA machines:

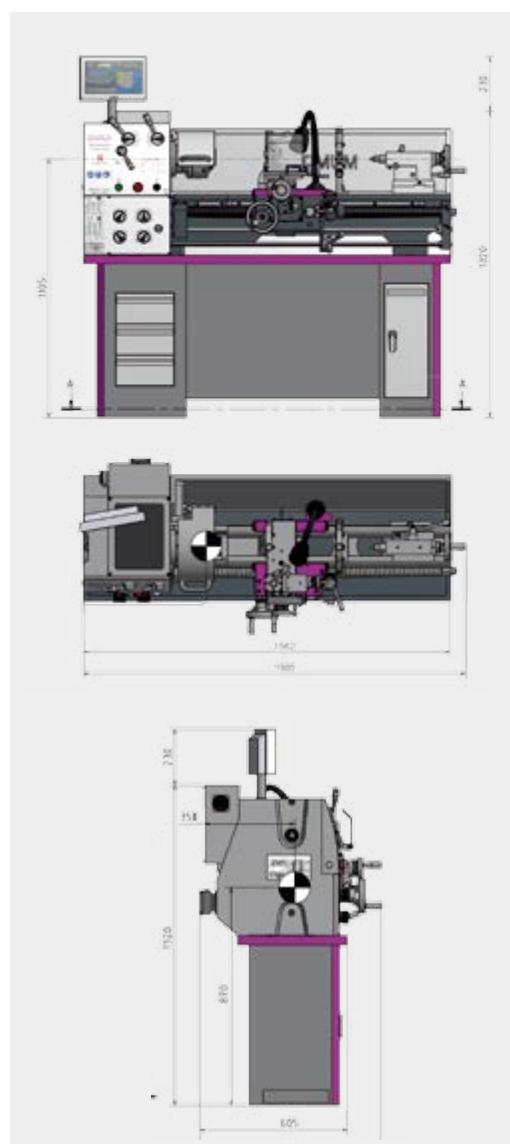
- Digital position display DPA 2000 and glass scales
- Considerable reduction of the manufacturing times
- Easy-to-operate
- High working accuracy
- Error rate is reduced
- Clearly-arranged keyboard
- Glare-free display

conventional



Fig.: Opti turn D 320 x 920 DPA

Type	D 320 x 630	D 320 x 920
Item No	340 0633	340 0923
DPA - type	D 320 x 630 DPA	D 320 x 920 DPA
Item No	340 0633DPA	340 0923DPA
Machine data		
Electrical connection	400 V / 3 Ph ~50 Hz	
Motor power	1.5 kW	
Working areas		
Centre height	160 mm	
Centre width	630 mm	920 mm
Turning Ø over lathe bed	320 mm	
Turning Ø over cross slide	190 mm	
Turning Ø in the bed bridge	430 mm	
Length of bed bridge	230 mm	
Bed width	181 mm	
Speeds		
Spindle speed	65 - 1'800 min ⁻¹	
Number of steps	18 steps	
Headstock		
Spindle taper	MT 5	
Spindle seat	Camlock DIN ISO 702-2 Nr. 4	
Spindle drilling, rod passage	Ø 38 mm	
Slide		
Travel top slide	85 mm	
Travel cross slide	162 mm	
Longitudinal feed in the range of	0.052 - 1'392 mm/rev; 32 feeds	
Transverse feed in the range of	0.014 - 0.380 mm/rev; 32 feeds	
Pitch - Metric in the range of	0.4 - 7 mm; 26 thread pitches	
Pitch - Inch in the range of	56 - 4 threads/1"; 34 thread pitches	
Quadruple tool holder seat height	16 x 16 mm	
Tailstock		
Tailstock seat	MT 3	
Tailstock - sleeve travel	100 mm	
Dimensions		
Length	1,485 mm	1,685 mm
Width x Height	750 x 1.350 (DPA 1'550) mm	
Weight	400 kg	410 kg



Standard equipment	
• Three-jaw lathe chuck Ø 160 mm	• Chip tray
• Four jaw lathe chuck Ø 200 mm with universally adjustable jaws	• Machine base (not mounted)
• Face clamping disc Ø 250 mm	• Splashback (not mounted)
• Revolving centre MT3	• Lathe chuck protection
• Steady rest Passage Ø max. 70 mm	• Machine lamp
• Follow rest Passage Ø max. 50 mm	• Threading gauge
	• Quadruple tool holder
	• Change gear kit
	• Operating tool

	Item No
Accessories	
Three jaw chuck Camlock cast iron Ø 200 mm	344 2762
Three jaw chuck CI3P Camlock cast iron Ø 200 mm	344 2045
Four jaw chuck CI4P Camlock cast iron Ø 200 mm	344 2145
Three jaw chuck CS3C Camlock steel Ø 200 mm	344 2545
Four jaw chuck CS4C Camlock steel Ø 200 mm	344 2645
Please find more lathe chucks and non-rigid block jaws from page 104 on	
Lathe tool kit 16 mm, 11 pcs	344 1508
Lathe tool kit HM 16 mm, 7 pcs	344 1511
Universal collet attachment 5C	344 1506
Collet chuck kit 3 - 25 mm, 5c, 17 pcs.	344 1509
Position limit stop with fine adjustment	344 1524
Quick change tool holder SWH 3-E	338 4303
Workshop assembly SWH	900 0400
Vibration damping machine foot SE 2	338 1016

Completely equipped centre lathe with electronically infinitely variable drive

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock spindle seat DIN ISO 702-2 Nr. 4
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Emergency-stop push button, protective motor switch, lockable main switch
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Chip protection at the top slide
- Cover for leading spindle
- New machine base with drawers
- Acceptance certificate

- **Digital position display DPA 2000 S** and glass scales
- Speed display
- Considerable reduction of the manufacturing times
- High working accuracy
- Error rate is reduced
- Glare-free display

Powerful Brushless drive

- Particularly smooth running
- Nearly constant torque over the entire speed range
- High power output



Main spindle

- Hardened and ground
- Running in an oil bath
- Running on 2 readjustable precision taper roller bearings
- Main spindle gearwheels smooth running, hardened and ground

Quality lathe chuck

- Precisely
- Higher speed is enabled
- High concentricity and repeatability

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quadruple tool holder
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Range of adjustment top slide ± 90°

Halogen machine lamp

- Coated articulated arm
- High positioning stability

Prism bed

- Heavily ribbed
- Inductively hardened
- Precision ground

Tailstock

- Adjustable by +/- 10 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.025 mm

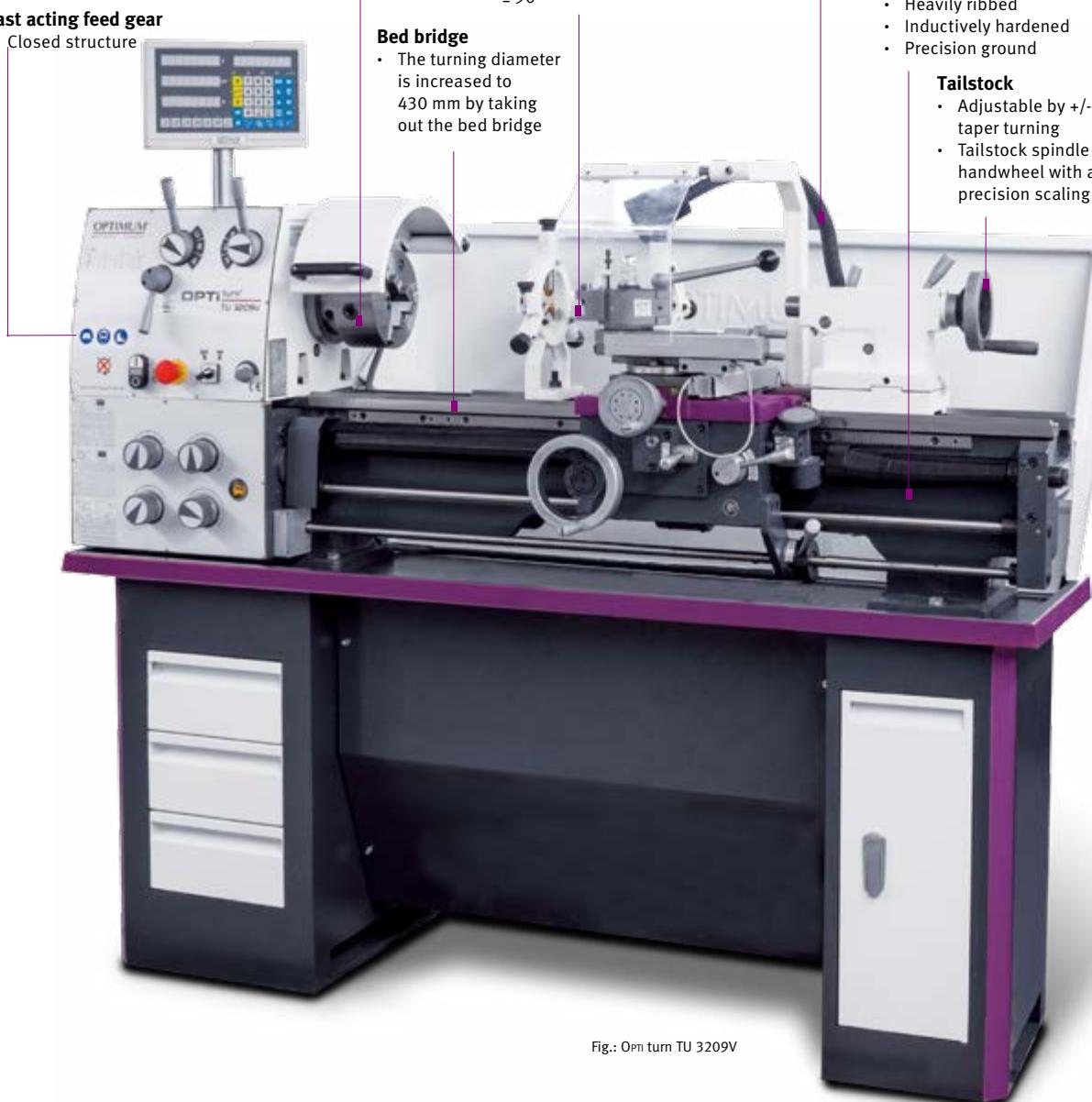


Fig.: OPTIturn TU 3209V

Type	TU 3209V
Item No	340 3110
Machine datas	
Electrical connection	230 V / 1 Ph ~50 Hz
Motor power	1.5 kW
Working areas	
Centre height	160 mm
Centre width	920 mm
Turning Ø over lathe bed	320 mm
Turning Ø over cross slide	190 mm
Turning Ø in the bed bridge	430 mm
Length of bed bridge	230 mm
Bed width	181 mm
Speeds	
Spindle speed	12 - 2'250 min ⁻¹
Number of steps	9 steps
Headstock	
Spindle taper	MT 5
Spindle seat	Camlock DIN ISO 702-2 Nr. 4
Spindle drilling, rod passage	Ø 38 mm
Slide	
Travel top slide	85 mm
Travel cross slide	162 mm
Longitudinal feed in the range of	0.052 - 1'392 mm/rev; 32 feeds
Transverse feed in the range of	0.014 - 0.380 mm/rev ;32 feeds
Pitch - Metric in the range of	0.4 - 7 mm;26 thread pitches
Pitch - Inch in the range of	56 - 4 threads/1";34 thread pitches
Quadruple tool holder seat height	16 x 16 mm
Tailstock	
Tailstock seat	MT 3
Tailstock - sleeve travel	100 mm
Dimensions	
Length X Width x Height	1'685 x 750 x 1'550 mm
Weight	410 kg

Standard equipment

- Three-jaw lathe chuck Ø 160 mm
- Four jaw lathe chuck Ø 200 mm with universally adjustable jaws
- Face clamping disc Ø 250 mm
- Revolving centre MT3
- Steady rest Passage Ø max. 70 mm
- Follow rest Passage Ø max. 50 mm
- Chip tray
- Machine base (not mounted)
- Splashback (not mounted)
- Lathe chuck protection
- Machine lamp
- Threading gauge
- Quadruple tool holder
- Change gear kit
- Operating tool

Accessories

Item No
344 2762
344 2045
344 2145
344 2545
344 2645
Please find more lathe chucks and non-rigid block jaws from page 104 on
344 1508
344 1511
344 1506
344 1509
344 1524
338 4303
900 0400
338 1016

Completely equipped mechanic's lathe including enclosed feed mechanism for rapid and easy switching over of feed pitches. DPA version with digital position display DPA 2000

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock DIN ISO 702-2 Nr. 4
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Hardened and ground toothed wheels and shafts, running in an oil bath on precision bearings
- Emergency-stop push button, protective motor switch, lockable main switch
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Cover for leading spindle
- Electrical system with Siemens components

- Foot brake
- Acceptance certificate

DPA machine:

- **Digital position display DPA 2000** and glass scales
- Considerable reduction of the manufacturing times
- Easy-to-operate
- High working accuracy
- Error rate is reduced
- Clearly-arranged keyboard
- Glare-free display

conventional

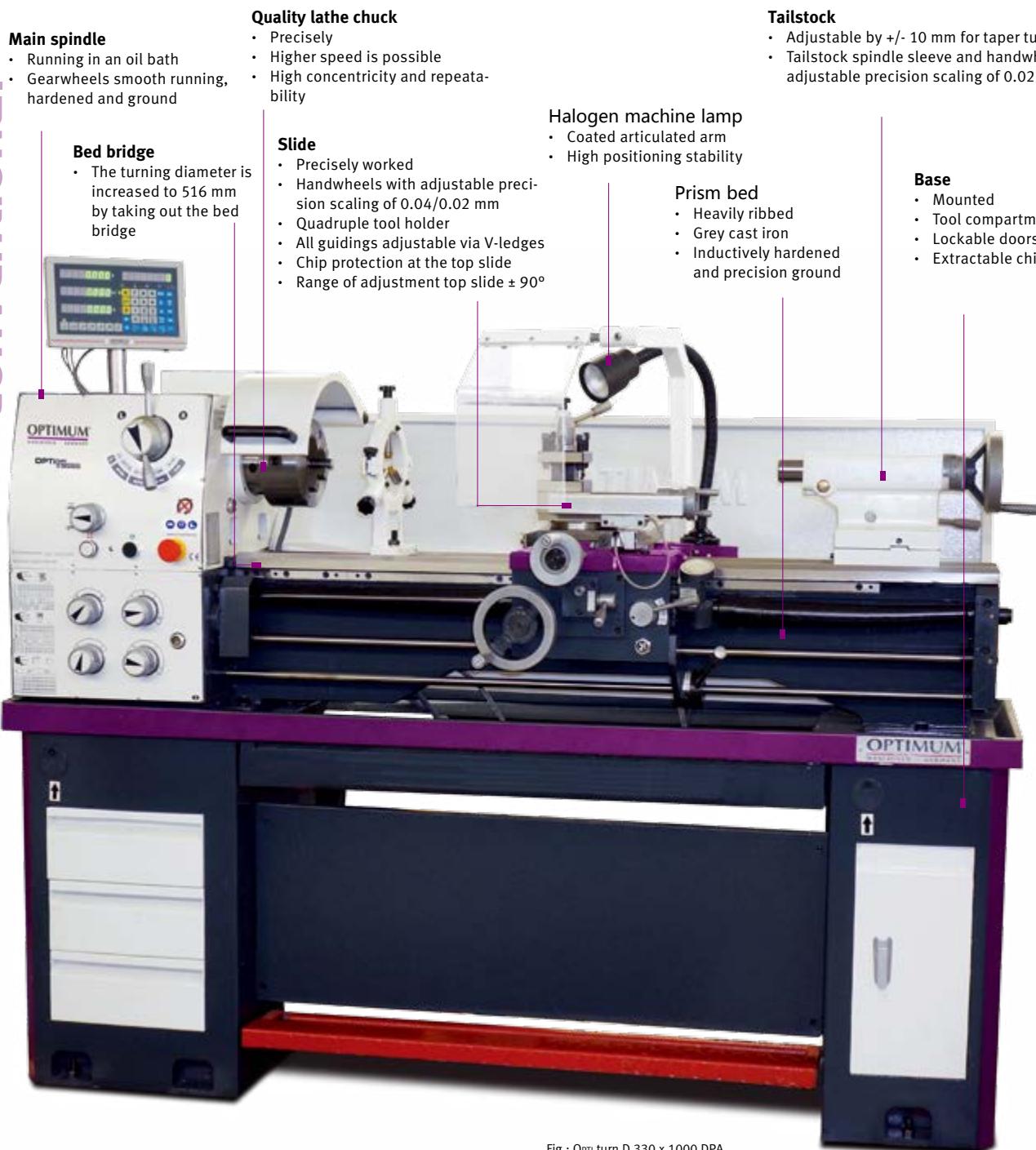


Fig.: Opti turn D 330 x 1000 DPA

Type	D 330 x 1000
Item No	340 1000
Type	D 330 x 1000 DPA
Item No	340 1000DPA
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor power	1.5 kW
Working areas	
Centre height	165 mm
Centre width	1'000 mm
Turning Ø over lathe bed	330 mm
Turning Ø over cross slide	198 mm
Turning Ø in the bed bridge	476 mm
Length of bed bridge	210 mm
Bed width	187 mm
Speeds	
Spindle speed	70 - 2'000 min ⁻¹
Number of steps	8 steps
Headstock	
Spindle taper	MT 5
Spindle seat	Camlock DIN ISO 702-2 Nr. 4
Spindle drilling, rod passage	Ø 38 mm
Slide	
Travel top slide	95 mm
Travel cross slide	170 mm 0.052 - 1'392 mm/rev; 40 feeds
Longitudinal feed in the range of	0.014 - 0.380 mm/rev; 40 feeds
Transverse feed in the range of	
Pitch - Metric in the range of	0.4 - 7 mm/rec; 32 thread pitches
Pitch - Inch in the range of	56 - 4 threads/1"; 40 thread pitches
Quadruple tool holder seat height	max. 16 mm
Tailstock	
Tailstock seat	MT 3
Tailstock - sleeve travel	126 mm
Dimensions	
Length x width x height	1'930 x 755 x 1'300 (DPA 1'550) mm
Net weight	550 kg

Standard equipment	
• Three jaw lathe chuck Ø 160 mm centric clamping	slide
• Four jaw lathe chuck Ø 200 mm with universally adjustable jaws	<ul style="list-style-type: none"> Position limit stop with fine adjustment Lathe chuck protection Spindle brake Machine substructure mounted including tool compartment Splash board mounted Threading gauge Quadruple tool holder Machine lamp Change gear kit Operating tool
• Face clamping disc Ø 250 mm	
• Reducing bush MT 5/MT 3	
• 2 steady centres MT 3	
• Steady rest Passage up to Ø 100 mm	
• Follow rest Passage up to Ø 95 mm	
• Chip protection at the top	

Accessories	Item No
Three jaw chuck Camlock cast iron Ø 200 mm	344 2762
Three jaw chuck CI3P Camlock cast iron Ø 200 mm	344 2045
Four jaw chuck CI4P Camlock cast iron Ø 200 mm	344 2145
Three jaw chuck CS3C Camlock steel Ø 200 mm	344 2545
Four jaw chuck CS4C Camlock steel Ø 200 mm	344 2645
Please find more lathe chucks and non-rigid block jaws from page 104 on	
Lathe tool kit 16 mm, 11 pcs	344 1508
Lathe tool kit HM 16 mm, 7 pcs	344 1511
Universal collet attachment 5C	344 1506
Collet chuck kit 3 - 25 mm, 5c, 17 pcs.	344 1509
Quick change tool holder SWH 3-E	338 4303
Workshop assembly SWH	900 0400
Vibration damping machine foot SE 2	338 1016

Completely equipped precision centre lathe including enclosed feed mechanism for rapid and easy switching over of feed pitches

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock spindle seat DIN ISO 702-2 Nr. 4
- Coolant equipment
- Coolant tank with filling level display and oil separator; easy and complete draining and cleaning according to DIN
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Hardened and ground toothed wheels and shafts, running in an oil bath on precision bearings
- Emergency-stop push button, protective motor switch, lockable main switch
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Steady rest and follow rest
- Halogen machine lamp
- Cover for leading spindle

- Cable duct in an energy chain
- Foot brake
- Electrical system with Siemens components
- Adjustable scale of the threading gauge
- Acceptance certificate

DPA machine:

- **Digital position display DPA 2000** and glass scales
- Considerable reduction of the manufacturing times
- Easy-to-operate
- High working accuracy
- Error rate is reduced
- Clearly-arranged keyboard
- Glare-free display

conventional

Main spindle

- Hardened and ground
- Running in an oil bath
- Running on 2 readjustable precision taper roller bearings
- Main spindle gearwheels smooth running, hardened and ground

Quality lathe chuck

- Precisely
- Higher speed is possible
- High concentricity and repeatability

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quadruple tool holder
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Range of adjustment top slide $\pm 90^\circ$

Tailstock

- Adjustable by ± 6 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.025 mm

Prism bed

- Heavily ribbed
- Grey cast-iron
- Inductively hardened
- Precision ground

Bed bridge

- The turning diameter is increased to 516 mm by taking out the bed bridge

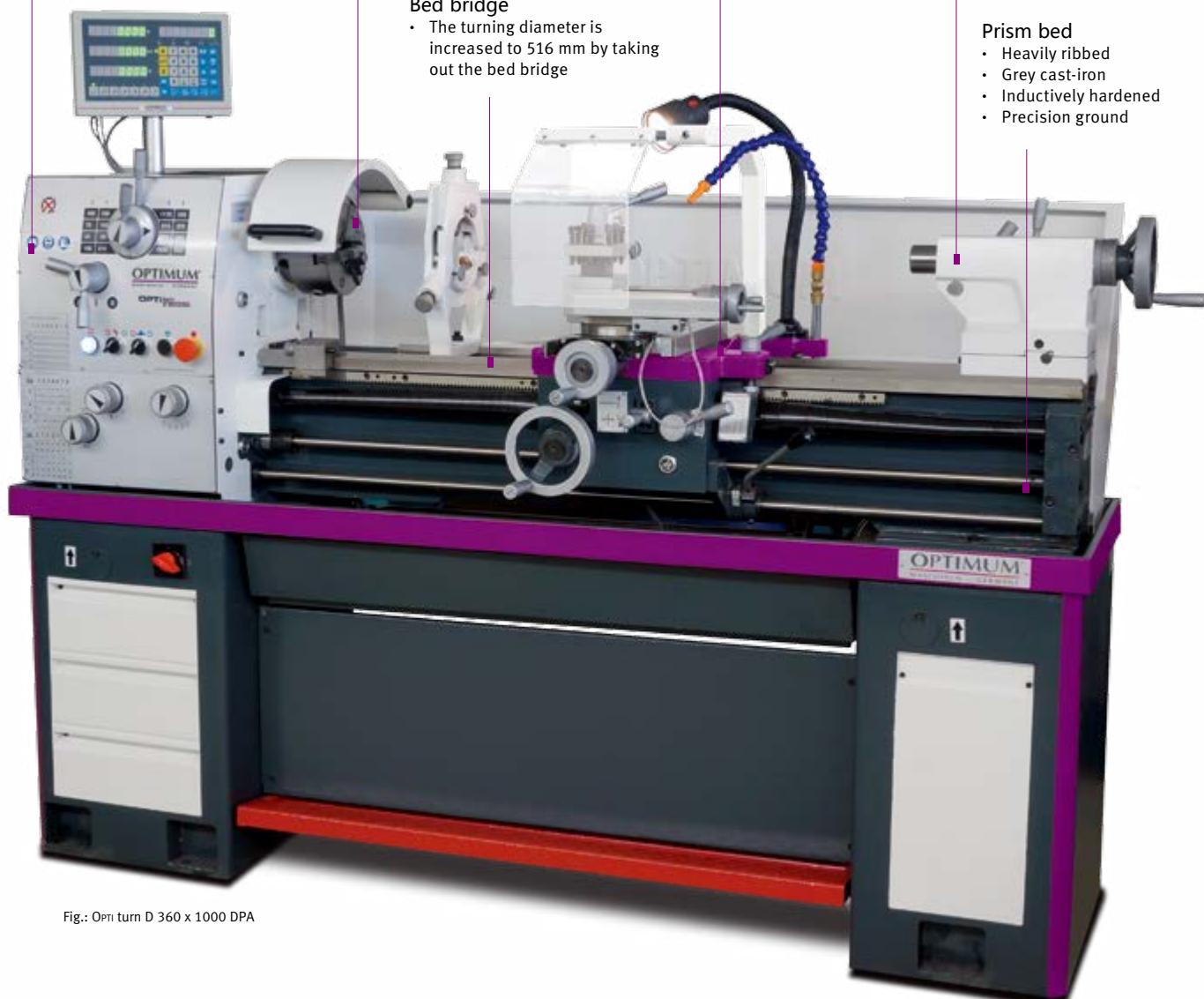


Fig.: Opti turn D 360 x 1000 DPA

Type	D 360 x 1000
Item No	340 1150
Type	D 360 x 1000 DPA
Item No	340 1150DPA
Machine datas	
Electrical connection	400 V / 3 Ph ~50 Hz
Main motor power, 2 stages	1.5/2.4 kW
Coolant equipment	40 W
Working areas	
Centre height	180 mm
Centre width	1'000 mm
Turning Ø over lathe bed	356 mm
Turning Ø over cross slide	220 mm
Turning Ø in the bed bridge	516 mm
Length of bed bridge	240 mm
Bed width	205 mm
Speeds	
Spindle speed	45 - 1'800 min ⁻¹
Number of steps	16 steps
Headstock	
Spindle taper	MT 5
Spindle seat	Camlock DIN ISO 702-2 Nr. 4
Spindle drilling, rod passage	Ø 38 mm
Slide	
Travel top slide	95 mm
Travel cross slide	180 mm
Longitudinal feed in the range of	0.043 - 0.653 mm/rev; 42 feeds
Transverse feed in the range of	0.015 - 0.220 mm/rev; 42 feeds
Pitch - Metric in the range of	0.45 - 7.5 mm/rev; 37 thread pitches
Pitch - Inch in the range of	112 - 4 threads/1"; 28 thread pitches
Quadruple tool holder seat height	Max. 16 mm
Tailstock	
Tailstock seat	MT 3
Tailstock - sleeve travel	126 mm
Dimensions	
Length x width x height	1'920 x 800 x 1'250 (DPA 1.490) mm
Net weight	850 kg

Standard equipment

- Three jaw lathe chuck Ø 160 mm centric clamping
- Four jaw lathe chuck Ø 200 mm with universally adjustable jaws
- Face clamping disc Ø 320 mm
- Reducing bush MT 5/MT 3
- 2 steady centres MT 3
- Steady rest Passage up to Ø 100 mm
- Follow rest Passage up to Ø 95 mm
- Mounted machine base
- Spindle brake
- Splash board mounted
- Lathe chuck protection
- Threading gauge
- Quadruple tool holder
- Coolant equipment
- Machine lamp
- Change gear kit
- Operating tool

Accessories

	Item No
Three jaw chuck cast iron Ø 200 mm	344 2762
Three jaw chuck CI3P cast iron Ø 200 mm	344 2045
Four jaw chuck CI4P cast iron Ø 200 mm	344 2145
Three jaw chuck CS3C steel Ø 200 mm	344 2545
Four jaw chuck CS4C steel Ø 200 mm	344 2645
Please find more lathe chucks/non-rigid block jaws from page 104 on	
Lathe tool kit 16 mm, 11 pcs	344 1508
Lathe tool kit HM 16 mm, 7 pcs	344 1511
Universal collet attachment 5C	344 1506
Collet chuck kit 3 - 25 mm, 5c, 17 pcs.	344 1509
Position limit stop with fine adjustment	344 1524
Quick change tool holder SWH 3-E	338 4303
Workshop assembly SWH	900 0400
Vibration damping machine foot SE 2	338 1016

Completely equipped precision centre lathe with electronically infinitely variable drive "power by Siemens" and digital position display DPA 2000 S

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock spindle seat DIN 702-2 Nr. 4
- Speed monitoring according to machine directive
- EMC filter also for the use in mixed-use areas
- Coolant equipment with separate coolant tank separately with filling level display and oil separator; easy and complete draining and cleaning according to DIN
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Hardened and ground toothed wheels and shafts, running in an oil bath on precision bearings
- Emergency-stop push button, protective motor switch, lockable main switch
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Quick action tool holder and tool holder for square tools
- Halogen machine lamp
- Cover for leading spindle
- New machine base with drawers
- Largely dimensioned chip protection
- Cable duct in an energy chain
- Foot brake
- Electrical system with Siemens components
- Adjustable scale of the threading gauge

vario drive

Quality lathe chuck

- Precisely
- Higher speed is possible
- High concentricity and repeatability

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Range of adjustment top slide ± 90°

Bed bridge

- The turning diameter is increased to 516 mm by taking out the bed bridge



Converter SINAMICS G120D

- Enhanced safety function (STO, SLS)
- Energetic recovery system, low circuit feedback
- Energy saving of up to 20 %
- No braking resistor required
- Easy and rapid diagnosis capability by means of LE
- Continuous standardized plug connection
- Robust construction of flat type (IP65)
- EMV class C2 according to EN 61800-3
- Safety Integrated without transmitter!
- STO - Safe Torque Off according to EN 61800-5
- SLS - Safety Limited Speed according to EN 61800-5



Tailstock

- Adjustable by ± 6 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.025 mm

Prism bed

- Heavily ribbed
- Grey cast-iron
- Inductively hardened
- Precision ground

Fig.: Opti turn TU3610V



Type	TU 3610 V
Item No	340 3130
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Main motor power	4 kW
Coolant equipment	40 W
Working areas	
Centre height	180 mm
Centre width	1'000 mm
Turning Ø over lathe bed	356 mm
Turning Ø over cross slide	220 mm
Turning Ø in the bed bridge	516 mm
Length of bed bridge	240 mm
Bed width	205 mm
Speeds	
Spindle speed	30 - 550 min ⁻¹ / 160 - 3000 min ⁻¹ *
Number of steps	2 steps, electrically adjustable speed
Headstock	
Spindle taper	MT 5
Spindle seat	Camlock DIN ISO 702-2 Nr. 4
Spindle drilling, rod passage	Ø 38 mm
Slide	
Travel top slide	95 mm
Travel cross slide	180 mm
Longitudinal feed in the range of	0.043 - 0.653 mm/rev; 42 feeds
Transverse feed in the range of	0.015 - 0.220 mm/rev; 42 feeds
Pitch - Metric in the range of	0.45 - 7.5 mm/rev; 37 thread pitches
Pitch - Inch in the range of	112 - 4 threads/1"; 28 thread pitches
Quadruple tool holder seat height	Max. 16 mm
Tailstock	
Tailstock seat	MT 3
Tailstock - sleeve travel	120 mm
Dimensions	
Length x width x height	1'920 x 800 x 1'250 (DPA 1.490) mm
Net weight	850 kg

* Speed under reserve

Standard equipment
• Three jaw lathe chuck Ø 160 mm centric clamping
• Four jaw lathe chuck Ø 200 mm with universally adjustable jaws
• Face clamping disc Ø 320 mm
• Reducing bush MT 5/MT 3
• 2 steady centres MT 3
• Steady rest Passage up to Ø 100 mm
• Follow rest Passage up to Ø 95 mm

- Mounted machine base
- Splash board mounted
- Lathe chuck protection
- Threading gauge
- Quick action tool holder
- Tool holder for square tools
- Coolant equipment
- Machine lamp
- Change gear kit
- Operating tool

Accessories	Item No
Three jaw chuck CS3C steel Ø 160 mm Speed 4'500 min ⁻¹	344 2540
Three jaw chuck CS3C steel Ø 200 mm Speed 4'000 min ⁻¹	344 2545
Four jaw chuck CS4C steel Ø 160 mm Speed 4'500 min ⁻¹	344 2640
Four jaw chuck CS4C steel Ø 200 mm Speed 4'000 min ⁻¹	344 2645
Please find more lathe chucks and non-rigid block jaws from page 104 on	
Revolving centre MT 3	344 0703
Lathe tool kit 16 mm, 11 pcs	344 1508
Lathe tool kit 16 mm, 7 pcs	344 1511
Collet chuck kit 3 - 25 mm, 5c, 17 pcs.	344 1509
Workshop assembly SWH	900 0400
Position limit stop with fine adjustment	344 1524
Universal collet attachment 5C	344 1506
Vibration damping machine foot SE 2	338 1016

Precise centre lathes. Advanced technology, complete equipment, easy-to-operate. DPA version with digital position display DPA 2000

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock spindle seat DIN ISO 702-2 No. 6
- Coolant equipment with separate coolant tank separately with filling level display and oil separator; easy and complete draining and cleaning according to DIN
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Main spindle running in an oil bath hardened and ground mounted on 2 adjustable precision taper roller bearings
- All metric thread pitch in the range from 0.2 to 14 mm/r and all inch threads in the range from 72 - 2 threads per inch without replacing the change gears by means of gear levers adjustable on the control panel
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Central lubrication at the bed slide
- Cover for leading spindle

- Electrical system with Siemens components
- Foot brake
- Adjustable scale of the threading gauge
- Halogen machine lamp with articulated arm
- Acceptance certificate

DPA machine:

- Digital position display DPA 2000 and glass scales
- Considerable reduction of the manufacturing times
- High working accuracy
- Error rate is reduced
- Clearly-arranged keyboard
- Glare-free display

- Main spindle**
- Hardened and ground
 - Running in an oil bath
 - Running on 2 readjustable precision taper roller bearings
 - Main spindle gearwheels smooth running, hardened and ground

- Fast acting feed gear**
- Closed structure
 - Hardened and ground toothed wheels and shafts
 - Running in an oil bath on precision bearings

Quality lathe chuck

- Precisely
- Higher speed is possible
- High concentricity and repeatability

Turret head

- With fine adjustment as limit stop for table saddle

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quadruple tool holder
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Range of adjustment top slide $\pm 90^\circ$

Bed bridge

- The turning diameter is increased to 590 mm by taking out the bed bridge

Base frame and lathe bed

- Meehanite casting
- One-piece casting



Energy chain

- Cable duct in an energy chain

Tailstock

- Adjustable by ± 13 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling

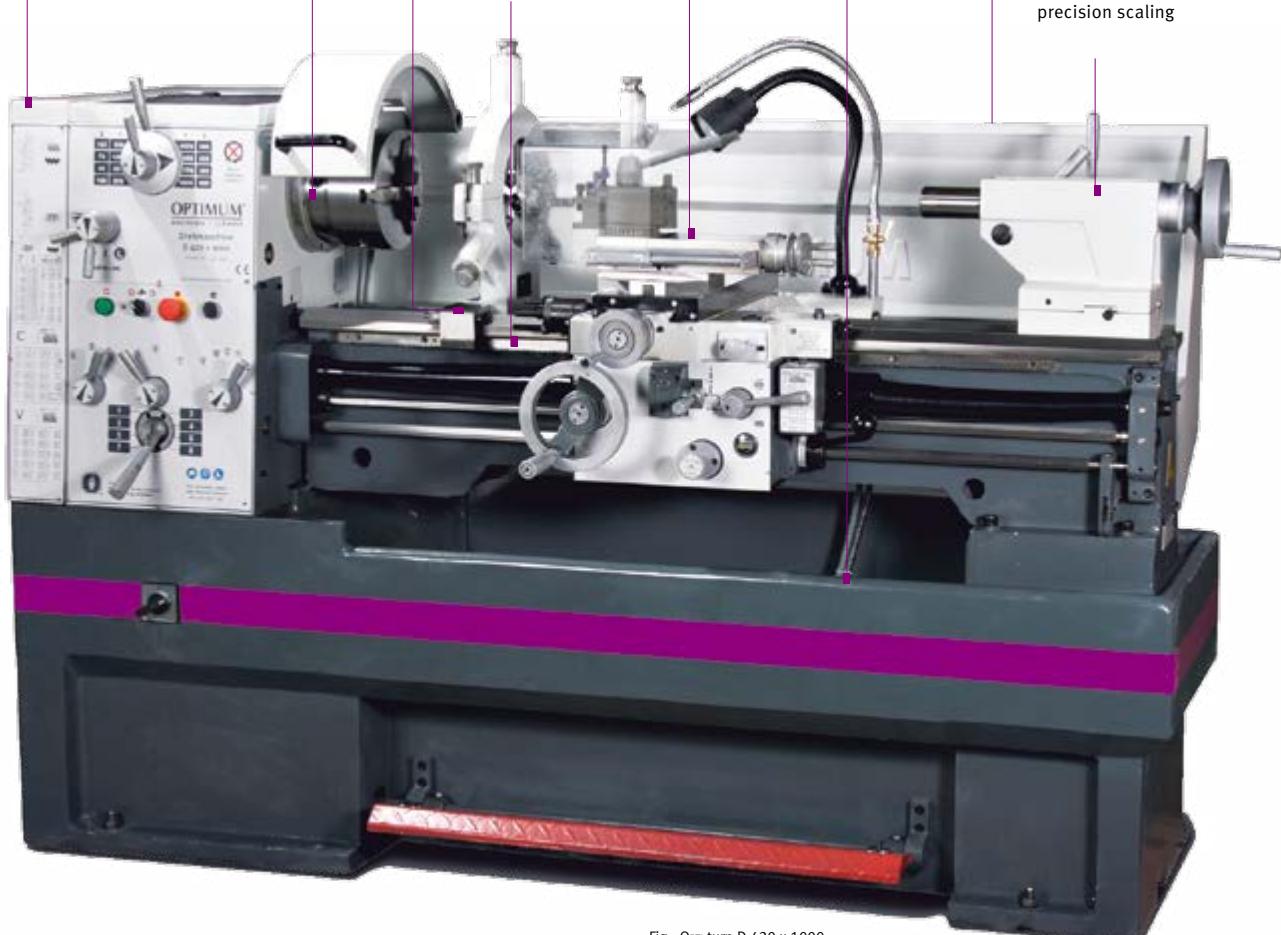
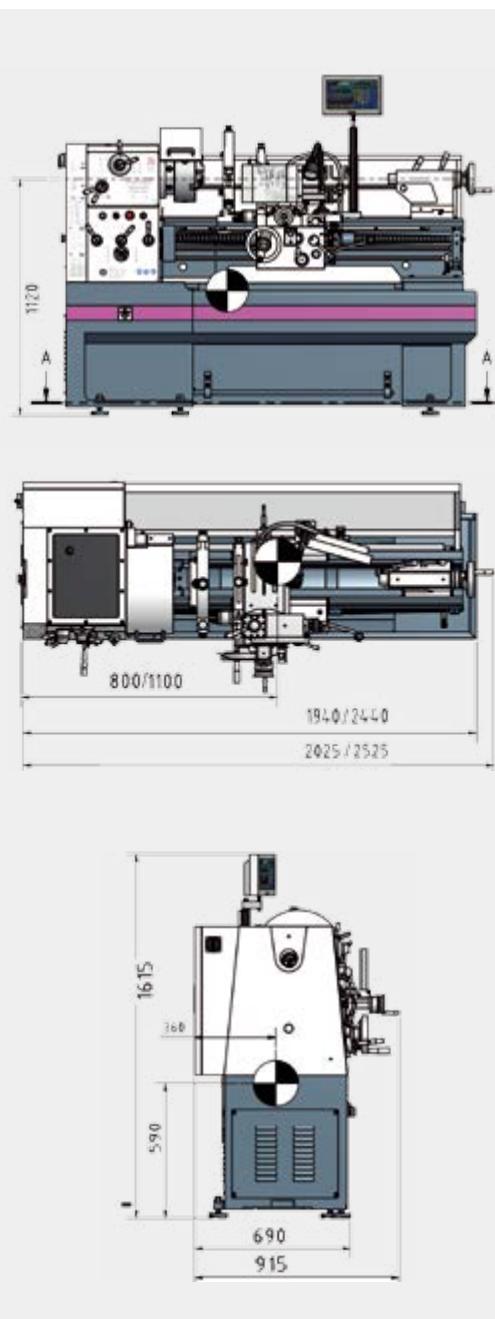


Fig.: Opti turn D 420 x 1000

Type	D 420 x 1000	D 420 x 1500
Item No	340 1160	340 1165
Type	D 420 x 1000 DPA	D 420 x 1500 DPA
Item No	340 1160DPA	340 1165DPA
Machine data		
Electrical connection	400 V / 3 Ph ~50 Hz	
Total connected value	4.5 kW	
Coolant equipment	100 W	
Working areas		
Centre height	210 mm	
Centre width	1'000 mm	1'500 mm
Turning Ø over lathe bed	420 mm	
Turning Ø over cross slide	250 mm	
Turning Ø in the bed bridge	590 mm	
Length of bed bridge	260 mm	
Bed width	250 mm	
Speeds		
Spindle speed	45 - 1'800 min ⁻¹	
Number of steps	16 steps	
Headstock		
Spindle taper	MT 6	
Spindle seat	Camlock DIN ISO 702-2 Nr. 6	
Spindle drilling, rod passage	Ø 52 mm	
Slide		
Travel top slide	140 mm	
Travel cross slide	230 mm	
Longitudinal feed in the range of	0.05 - 1.7 mm/rev; 17 feeds	
Transverse feed in the range of	0.025 - 0.85 mm/rev; 17 feeds	
Pitch - Metric in the range of	0.2 - 14 mm/rec; 39 thread pitches	
Pitch - Inch in the range of	72 - 2 threads/1"; 45 thread pitches	
Trapezoid thread in the range of	8 - 44; 21 trapezoid thread	
Modular thread in the range of	0.3 - 3.5; 18 modular thread	
Quadruple tool holder seat height	Max. 20 x 20 mm	
Tailstock		
Tailstock seat	MT 4	
Tailstock - sleeve travel	120 mm	
Dimensions		
Length	2,025 mm	2,525 mm
Width x Height	915 x 1'375 (DPA 1'615) mm	
Net weight	1,550 kg	1,800 kg



Standard equipment	
• Three-jaw lathe chuck Ø 200 mm	Ø max. 75 mm
• Four jaw lathe chuck Ø 250 mm with universally adjustable jaws	<ul style="list-style-type: none"> • Machine substructure • Spindle brake • Splash board mounted • Lathe chuck protection • Chip protection at the top slide • Turret stop with fine adjustment • Threading gauge • Coolant equipment • Machine lamp • Change gear kit • Operating tool
• Face clamping disc Ø 350 mm	
• Quick action tool holder	
• Tool holder for square tools	
• Reducing bush MT 6/MT 4	
• 2 steady centres MT 4	
• Steady rest Passage Ø max. 145 mm	
• Follow rest Passage	

Accessories	Item No
Three jaw chuck CI3P Ø 250 mm cast iron Speed 2'000 min ⁻¹	344 2055
Four jaw chuck CI4P Ø 200 mm cast iron Speed 2'500 min ⁻¹	344 2150
Three jaw chuck CS3C Ø 250 mm steel Speed 3'500 min ⁻¹	344 2555
Four jaw chuck CS4C Ø 250 mm steel Speed 3'500 min ⁻¹	344 2655
Please find more lathe chucks and non-rigid block jaws from page 104 on	
Lathe tool kit HM 20 mm, 7 pcs	344 4011
Collet chuck kit 3 - 25 mm, 5C, 17 pcs.	344 1509
Vibration damping machine foot SE 2	338 1016
Universal collet attachment 5C	344 1507

Completely equipped precision centre lathe with electronically infinitely variable drive "power by Siemens" and digital position display DPA 2000 S

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
- Camlock spindle seat DIN ISO 702-2 No. 6
- Speed monitoring according to machine directive
- EMC filter also for the use in mixed-use areas
- Coolant equipment with separate coolant tank separately with filling level display and oil separator; easy and complete draining and cleaning according to DIN
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- All metric thread pitch in the range from 0.2 to 14 mm/rev and all inch threads in the range from 72 - 2 threads per inch without replacing the change gears by means of gear levers adjustable on the control panel
- Right-handed / left-handed rotation on the bed slide switchable via stem
- Halogen machine lamp
- Central lubrication at the bed slide
- Cover for leading spindle
- Largely dimensioned chip protection
- Foot brake

- Electrical system with Siemens components
- Adjustable scale of the threading gauge
- Acceptance certificate

- **Digital position display DPA 2000 S** and glass scales
- Considerable reduction of the manufacturing times
- High working accuracy
- Error rate is reduced
- Glare-free display

Converter SINAMICS G120D

- Enhanced safety function (STO, SLS)
- Energetic recovery system, low circuit feedback
- Energy saving of up to 20 %
- No braking resistor required
- Easy and rapid diagnosis capability by means of LED
- Continuous standardized plug connection
- Robust construction of flat type (IP65)
- EMV class C2 according to EN 61800-3
- Safety Integrated without transmitter!
- STO - Safe Torque Off according to EN 61800-5
- SLS - Safety Limited Speed according to EN 61800-5



Main spindle

- Hardened and ground **Quality lathe chuck**
- Running in an oil bath • Precisely
- Running on 2 readjust- • Higher speed is possible
- able precision taper • High concentricity and repeat-
- roller bearings ability
- High quality GATES driv-
- ing belts

Slide

- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Range of adjustment top slide $\pm 90^\circ$

Base frame and lathe bed

- Meehanite casting
- One-piece casting

Tailstock

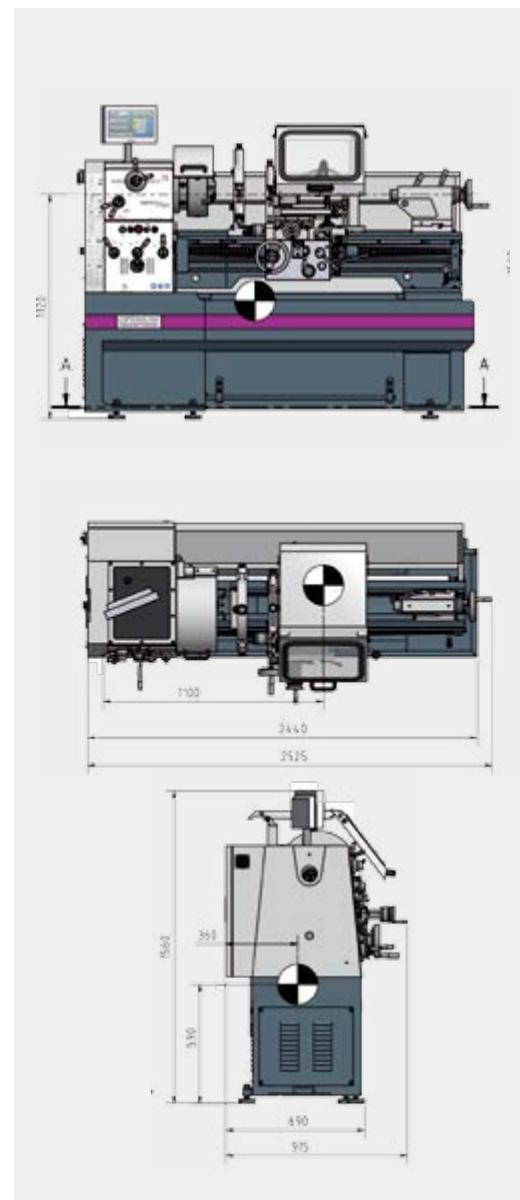
- Adjustable by ± 13 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling



Fig.: Opti turn TU 4210V

Type	TU 4210 V
Item No	340 3150
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected value	5.5 kW
Coolant equipment	100 W
Working areas	
Centre height	210 mm
Centre width	1'000 mm
Turning Ø over lathe bed	420 mm
Turning Ø over cross slide	250 mm
Turning Ø in the bed bridge	590 mm
Length of bed bridge	260 mm
Bed width	250 mm
Speeds	
Spindle speed	30 - 550 min ⁻¹ / 160 - 3'000 min ⁻¹ *
Number of steps	2 steps, electrically adjustable speed
Headstock	
Spindle taper	MT 6
Spindle seat	Camlock DIN ISO 702-2 Nr. 6
Spindle drilling, rod passage	Ø 52 mm
Slide	
Travel top slide	140 mm
Travel cross slide	230 mm
Longitudinal feed in the range of	0.05 - 1.7 mm/rev;
Transverse feed in the range of	0.025 - 0.85 mm/rev;
Pitch - Metric in the range of	0.2 - 14 mm/rec;
Pitch - Inch in the range of	72 - 2 threads/1";
Trapezoid thread in the range of	8 - 44;
Modular thread in the range of	0.3 - 3.5;
Quadruple tool holder seat height	Max. 20 x 20 mm
Tailstock	
Tailstock seat	MT 4
Tailstock - sleeve travel	120 mm
Dimensions	
Length x width x height	2'025 mm x 915 x 1'615 mm
Net weight	1'550 kg

* Speed under reserve



Standard equipment

- Three-jaw lathe chuck Ø 200 mm
- Four jaw lathe chuck Ø 250 mm with universally adjustable jaws
- Face clamping disc Ø 350 mm
- Reducing bush MT 6/MT 4
- 2 steady centres MT 4
- Steady rest Passage Ø max. 145 mm
- Follow rest Passage Ø max. 75 mm
- Digital position display

- DPA 2000 S
- Glass scales
- Splash board mounted
- Lathe chuck protection
- Chip protection at the top slide
- Turret stop with fine adjustment
- Threading gauge
- Quick action tool holder
- Tool holder for square tools
- Coolant equipment
- Machine lamp
- Change gear kit
- Operating tool

Accessories

Item No
344 2550
344 2555
344 2650
344 2655
Please find more lathe chucks and non-rigid block jaws from page 104 on
Revolving centre MT 3
344 0703
Collet chuck kit 3 - 25 mm, 5c, 17 pcs.
344 1509
Position limit stop with fine adjustment
344 1524
Universal collet attachment 5C
344 1506
Vibration damping machine foot SE 2
338 1016

LATHE MACHINE

车 床 TM4010



优质、高效、高性价比

- 配置欧洲最新款卡盘防护罩
- 配置带刹车电机，刹车断电及时可靠
- 配置全防护刀架防护罩
- 配置整体床脚，外观造型更美观
- 配置 LED 节能灯，照明效果更好

Convincing arguments: quality, efficiency and price

- New style European chuck guard
- New brake motor system, more timely and reliable for brake and power cut
- Full-protection tool-post guard
- Integral stand, appearance and style much nicer
- LED lamp, save more power and better lighting effect

主轴

- 好的同心度
 - 高承载能力
 - 精密锥度滚珠轴承支撑
- Spindle**
- Perfect concentricity
 - High loading capacity
 - Mounted in precision taper roller bearings

工作灯

- 能完全照射到工作区域
- Machine lamp**
- Complete illumination to the working area



快换刀架(可选)
Quick action tool holder(optional)

尾架

- 经淬火和精密磨削的套筒
 - 大尺寸
 - 套筒带刻度
- Tailstock**
- Hardened and ground sleeves
 - Largely dimensioned
 - Sleeve with scale



整体床脚
one piece base

TM 4010



直流控制
DC control

- 动作响应速度快, 转速稳定
- Fast response, stable running



主轴刹车
Brake motor

- 主轴电机带电磁制动, 刹车停止快, 动作准确
- spindle motor with electro-magnetic brake, fast stop by brake, accurate operation

六边形结构床身
Hexagon structure bed

- 高强度加强筋
- 高强度
- Heavily ribbed special cast
- High rigidity



机床技术参数 /Specification

型号	Model	TM4010
货号	Item No.	4640300
电机功率	Motor power	2.2kw
水泵电机功率	Motor coolant pump	100W
主轴电机功率	Spindle Motor	2.2kw
主轴锥度	Spindle taper	MK4
主轴类型	Spindle seat	D5
主轴通孔直径	Spindle drilling,rod passage	53mm
主轴中心高	Centre height	200mm
主轴中心距	Centre width	1000mm
床身上最大回转直径	Turning Ø over lathe bed	400mm
拖板上最大回转直径	Turning Ø over cross slide	250mm
主轴转速	Spindle speed	2000/1255/755/460/300/190/155/70
档位数	Steps of spindle	8
小拖板行程	Travel top slide	98mm
中拖板行程	Travel cross slide	205mm
纵向进给范围	Longitudinal feed in the range of	0.014-0.38mm
横向进给范围	Transverse feed in the range of	0.052-1.392mm
公制螺纹范围	Pitch - Metric in the range of	0.4-7mm
英制螺纹范围	Pitch - Inch in the range of	56-4
刀架安装座最大高度	Tool holder seat height(max.)	30mm
尾架套筒直径	Tailstock seat	50mm
尾架套筒行程	Tailstock - sleeve travel	0-110mm
外形尺寸	Length x width x height	1950×820×1530mm
净重/毛重	Net weight/Gross weight	500/598 kg

标准附件 :

- LED 工作灯 CLL40S12DBS6HN
- 冷却泵 400V 3Ph 50Hz 100W
- 三爪卡盘 K11-200/D5
- 中心架 Φ10- Φ100 mm
- 跟刀架 Φ10- Φ60 mm
- 四方刀架
- 电磁离合器主轴刹车

Standard Accessories:

- LED Machine lamp CLL40S12DBS6HN
- Coolant pump 400V 3Ph 50Hz 100W
- 3-jaw chuck K11-200/D5
- Steady rest Φ10- Φ100 mm bronze bushes
- Follow rest Φ10- Φ60 mm roll
- Quadruple tool holder
- Brake motor

可选附件 :

- 四爪卡盘 K72-200/D5
- 数显表
- 乱扣盘
- 花盘 Φ330/D5
- 卡盘护罩
- 刀架护罩
- 丝杆防护罩
- 一体一夹欧式 3-E 快换刀架 SWH3-E

Optional Accessories:

- 4-jaw chuck K72-200/D5 cast
- Digital position display
- Threading watch
- Face plate Φ330/D5
- Chuck cover
- Tool-post guard
- Leadscrew cover
- One-body one-holder European 3-E quickaction tool-holder SWE3-E

LATHE MACHINE

车 床 TX 4412/TX 5216/TX 6222



主轴

- 好的同心度
- 高承载能力
- 精密度滚珠轴承支撑

Spindle

- Perfect concentricity
- High loading capacity
- Mounted in precision taper roller bearings

工作灯

- 能完全照射到工作区域

Machine lamp

- Complete illumination to the working area

快换刀架(可选)

Quick action tool holder(optional)



尾架

- 经淬火和精密磨削的套筒
- 大尺寸
- 套筒带刻度

Tailstock

- Hardened and ground sleeves
- Largely dimensioned
- Sleeve with scale

整体床脚
one piece base



TX 5216



进给齿轮

- 所有齿轮均为钢件制作
- 淬火加精磨
- 轴安装在滚针轴承上
- 所有部件都有润滑

Feed gear

- All gears made of steel
- hardened and precision ground
- Shafts on needle bearings
- All components are lubricated in an oil bath



溜板箱

- 完整密封的箱体
- 带有安全防护以免车螺纹和进给机构同时操作

Apron

- Completely sealed housing
- With safety equipment against operation of threading and feed mechanism at the same time



棱柱床身

- 高强度加强筋
- 高强度

Prism bed

- Heavily ribbed special cast
- High rigidity

机床技术参数 /Specification

型号	Model	TX 4412	TX 5216	TX 6222
货号	Item No.	4244300	4254400	4262500
电压	Electrical connection	3 x 400V ~50 Hz	3 x 400V ~50 Hz	3 x 400V ~50 Hz
电机功率	Drive motor	4 KW	5.5 KW	7.5 KW
加工范围	Work areas			
主轴中心高	Centre height	220mm	260mm	310mm
主轴中心距	Centre width	1150mm	1600mm	2225mm
床身上最大回转直径	Turning Ø over lathe bed	Ø400mm	Ø520mm	Ø620mm
马鞍板上最大回转直径	Turning Ø in the bed bridge	Ø600mm	Ø780mm	Ø880mm
拖板上最大回转直径	Turning Ø over cross slide	Ø210mm	Ø325mm	Ø425mm
花盘前马鞍板的有效长度	Turning length in the bed bridge from face plate	250mm	280mm	200mm
主轴	Headstock			
主轴通孔	Spindle bore	Ø52mm	Ø80mm	Ø105mm
主轴锥度	Main spindle taper	MT4	MT7(Ø80)	1:20(Ø105)
主轴转速	Spindle speeds	40/72/92/185/340/ 425/625/950/1150/ 1400/1750/2200 rpm	30/44/62/80/110/ 170/230/350/500/ 750/1100/1500 rpm	30/44/62/80/110/ 170/230/350/500/ 750/1100/1500 rpm
档位数	Speed step	12 steps	12 steps	12 steps
进给及螺纹	Feed and thread pitch			
纵向进给范围	Longitudinal feed	0.05 - 0.75 mm/rev	0.05 - 1.5 mm/rev	0.05 - 1.5 mm/rev
横向进给范围	Cross feed	0.025 - 0.375 mm/rev	0.025 - 0.75 mm/rev	0.025 - 0.75 mm/rev
公制螺纹范围	Metric thread	0.5 - 7.5 mm/rev	0.5 - 15 mm/rev	0.5 - 15 mm/rev
大丝杆规格	Pitch lead screw	6mm	12mm	12mm
拖板	Carriage			
中拖板行程	Travel cross slide	300mm	350mm	365mm
小拖板行程	Travel top slide	130mm	170mm	165mm
尾架	Tailstock			
尾架套筒直径	Quill diameter	Ø58mm	Ø72mm	Ø72mm
尾架套筒行程	Sleeve stroke	155mm	180mm	180mm
套筒内孔锥度	Taper in the sleeve	MT4	MT5	MT5
外形尺寸	Dimensions			
长宽高	Length x width x height	/	3016x1256x2220mm	3600x1060x1845mm
净重	Total weight	/	1795kg	2020kg

标准附件 : (TX5216)

- LED 工作灯 CLL40S24DBS6HN-5630
- 冷却泵 400V 3Ph 50Hz 100W
- 三爪卡盘 K11-315/D8
- 大托板快速进给
- 四工位行程挡铁
- 四方刀架
- 主轴电磁刹车

Standard Accessories: (TX5216)

- LED Machine lamp CLL40S24DBS6HN-5630
- Coolant pump 400V 3Ph 50Hz 100W
- 3-jaw chuck K11-315/D8
- Rapid-feed on carriage
- 4-station length stop
- Quadruple tool holder
- Spindle electro-magnetic brake

可选附件 : (TX5216)

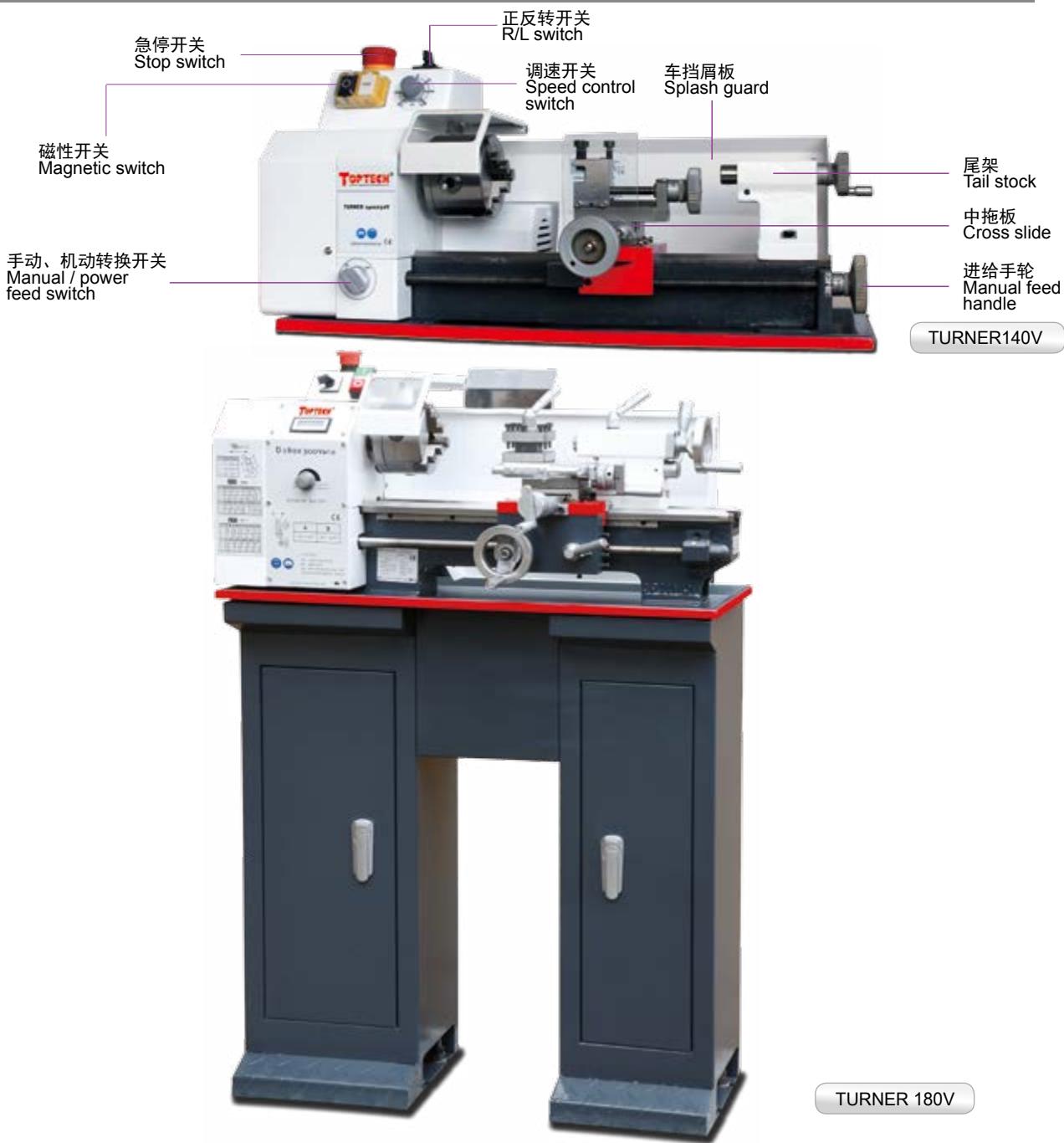
- 四爪卡盘 K72-350/D8
- 中心架 Ø10-185 mm
- 跟刀架 Ø15-125 mm
- 花盘 Ø480/D1-8
- 卡盘护罩
- 刀架护罩
- 丝杆防护罩
- 一体一夹欧式 5-B 快换刀架 SWH5-B
- NEWALL 球栅三轴
- 三轴数显

Optional Accessories:(TX5216)

- 4-jaw chuck K72-350/D8 cast
- Steady rest Ø10- Ø185 mm bronze bushes
- Follow rest Ø15- Ø125 mm roll
- Face plate Ø480/D1-8
- Chuck cover
- Tool-post guard
- Leadscrew cover
- One-body one-holder European 5-B quickaction tool-holder SWE5-B
- NEWALL 3-axis ball grid DRO
- DPA21

VARIABLE SPEED MINI LATHE

无级变速小车床 TURNER 140x250V/ TURNER 180x300V



细节展示 Details



头箱控制板
Head stock control board



刀架与拖板
Tool post & slide



三爪卡盘
3 jaw chuck



精密强力切削刀架
Precision solid tool post



速度控制，主轴支撑采用双锥形滚珠轴承
Speed control,spindle mounted in dual taper ball bearing



尾架可调整切削锥度
Tailstock adjustable with cutting taper

机床技术参数 /Specification

型号	Model	Turner 140V	Turner 180V
产品编号	Code No.	4114000	4118000
加工范围	Capacity		
床身上最大回转直径	Swing over bed	Ø140mm	Ø180mm
拖板上最大回转直径	Swing over cross slide	Ø78 mm	Ø120mm
两顶尖中心距	Admits between	250mm	300mm
主轴中心高	Center height	70mm	90mm
床身宽度	Width of bed	70mm	100mm
主轴	HEADSTOCK		
主轴通孔直径	Spindle bore	Ø11mm	Ø21mm
主轴内孔锥度	Taper of spindle bore	MT1	MT3
主轴转速范围	Range of spindle speed	150-3000 rpm	150-2500rpm
进给及螺纹	FEEDS AND THREADS		
小拖板最大纵向行程	Compound rest travel	40mm	75mm
中拖板最大横向行程	Cross slide travel	55mm	100mm
车刀刀杆最大截面	Max.Section of tool	8x8 mm	10x10mm
公制螺纹范围	Threads metric pitches	0.5-1mm	0.5-3mm
英制螺纹范围	Threads imperial pitches	5-15TPI	10-44TPI
尾座	TAILSTOCK		
尾座套筒直径	Quill diameter	Ø18mm	Ø25mm
尾座套筒行程	Quill travel	50mm	60mm
尾座套筒内孔锥度	Quill taper	MT1	MT2
电机	MOTOR		
主电机功率	Main motor power	230V or 110V/ 350W	600W
外形尺寸及重量	DIMENSION AND WEIGHT		
外形尺寸 (长×宽×高)	Overall dimension(L×W×H)	550×255×280mm	740×390×310mm
包装箱尺寸 (长×宽×高)	Packing size(L×W×H)	720×415×345mm	810×470×440mm
净重/毛重	Net weight/Gross weight	23/26kg	61/71kg

标准附件 :

- 三爪卡盘 Ø80 (Turner 140)
Ø100 (Turner 180)
- 死顶尖 MT1
- 挂轮
- 六角扳手
- 挡屑板
- 油盘
- 油枪

Standard Accessories:

- 3-jaw chuck Ø80 (Turner 140)
Ø100 (Turner 180)
- Dead center MT1
- Change gears kit
- Hexagon wrench
- Splash guard
- Chip tray
- Oil gun

可选附件 :

- 中心架 Ø2-50 (Turner180)
- 跟刀架 Ø2-50 (Turner180)
- 车刀 8x8mm
- 活顶尖 MT1
- ER16 弹簧夹头
- ER16 弹簧夹头座
- 花盘 Ø80-140mm(Turner180)
- 四爪卡盘 Ø80 (Turner 140)
Ø100 (Turner 180)
- 法兰盘 Ø80 (Turner 140)
Ø100 (Turner 180)

Optional Accessories:

- Steady rest Ø2-50 (Turner180)
- Follow rest Ø2-50 (Turner180)
- Turning tools 8x8mm
- Live center MT1
- ER16 collet
- ER16 collet chuck
- Face plate Ø80-140mm(Turner180)
- 4-jaw chuck Ø80 (Turner 140)
Ø100 (Turner 180)
- Back plate Ø80 (Turner 140)
Ø100 (Turner 180)

LATHE MACHINE

车床 TURNER 210(V)/TURNER 250F(V)



TURNER 210V

挂轮组

- . 攻丝
- . 通过 V 形皮带快速简单地变速

Change gear kit

- . For threading
- . Easy and fast speed change via V-belts

尾架

- . 可调节车前锥度
- . 带有 0.02mm 精度可调的尾架套筒和手轮

Tailstock

- . Adjustable for taper turning
- . Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.02 mm



拖板

- . 精加工
- . 可调精度(0.04/0.01mm)
- . 四方刀架
- . 所有导轨均可调节

Slide

- . Precisely machined
- . Hand wheels with adjustable precision scaling of 0.04/0.01mm
- . Quadruple tool holder
- . All guidings adjustable via Vledges

TURNER 250F

机床技术参数 /Specification

型号	Model	Turner 210x400	Turner 210x400 Vario	Turner 250F	Turner 250F V
产品编号	Code No.	4121002(230V)	4421000	4125102(230V)	4425100
产品编号	Code No.	4121003(400V)		4125103(400V)	
加工范围	Capacity				
床身上最大回转直径	Swing over bed	Ø210mm	Ø210mm	Ø250mm	Ø250mm
拖板上最大回转直径	Swing over cross slide	Ø110mm	Ø110mm	Ø150mm	Ø150mm
两顶尖中心距	Admits between	330mm	330mm	550mm	550mm
主轴中心高	Center height	105mm	105mm	125mm	125mm
床身宽度	Width of bed	135mm	135mm	135mm	135mm
主轴	HEADSTOCK				
主轴通孔直径	Spindle bore	Ø21mm	Ø21mm	Ø21mm	Ø21mm
主轴内孔锥度	Taper of spindle bore	MT3	MT3	MT3	MT3
主轴转速范围	Range of spindle speed	125-2000rpm	150-2200rpm	125-2000rpm	150-2200rpm
进给及螺纹	FEEDS AND THREADS				
小拖板最大行程	Top slide travel	75mm	75mm	75mm	75mm
中拖板最大行程	Cross slide travel	110mm	110mm	120mm	120mm
车刀刀杆最大截面	Max.Section of tool	12x12mm	12x12mm	12x12mm	12x12mm
公制螺纹范围	Threads metric pitches	0.4-3.5mm	0.4-3.5mm	0.4-3.5mm	0.4-3.5mm
英制螺纹范围	Threads imperial pitches	8-44TPI	8-44TPI	8-44TPI	8-44TPI
尾座	QUILL				
尾座套筒直径	Quill diameter	Ø30mm	Ø30mm	Ø30mm	Ø30mm
尾座套筒行程	Quill travel	70mm	70mm	70mm	70mm
尾座套筒内孔锥度	Quill taper	MT2	MT2	MT2	MT2
横向调整	Cross adjustment	±5mm	±5mm	±5mm	±5mm
电机	MOTOR				
主电机功率	Main motor power	750W	750W	750W	1100W
外形尺寸及重量	DIMENSION AND WEIGHT				
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	880x500x480mm	880x500x480mm	1110x500x500mm	1110x500x500mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	980x560x560mm	980x560x560mm	1200x560x570mm	1200x560x570mm
净重/毛重	Net weight/Gross weight	114/130kg	114/130kg	127/145kg	127/145kg

标准附件 :

- 三爪卡盘 Ø100(Turner 210(V))
Ø125(Turner 250F(V))
- 顶尖 MT2/MT3
- 挂轮
- 各种扳手
- 油盘

Standard Accessories:

- 3-jaw chuck Ø100(Turner 210(V))
Ø125(Turner 250F(V))
- Dead center MT2/MT3
- Change gears kit
- Hexagon wrench
- Chip tray

可选附件 :

- 中心架 Ø2-60(Turner 210(V))
Ø2.5-60(Turner 250F(V))
- 跟刀架 Ø2-60(Turner 210(V))
Ø2.5-60(Turner 250F(V))
- 花盘 Ø80-150mm(Turner 210(V))
Ø90-200mm(Turner 250F(V))
- 床脚
- 组合车刀 10mm/7 件
- 四爪卡盘 Ø100(Turner 210(V))
Ø125(Turner 250F(V))
- 活顶尖 MT2
- 工作灯 JC34A
- 冷却泵
- 快换刀架

Optional Accessories:

- Steady rest Ø2-60(Turner 210(V))
Ø2.5-60(Turner 250F(V))
- Follow rest Ø2-60(Turner 210(V))
Ø2.5-60(Turner 250F(V))
- Face plate Ø80-150mm(Turner 210(V))
Ø90-200mm(Turner 250F(V))
- Stand
- Cutting tool set 10mm/7pcs
- 4-jaw chuck Ø100(Turner 210(V))
Ø125(Turner 250F(V))
- Live center MT2
- Lamp JC34A
- Coolant pump
- Quick change tool post

LATHE MACHINE

车床 TURNER 240(V)/TURNER 280F(V)

优质、高效、高性价比

- 超音频淬火床身
- 强功率电机
- 欧洲标准安全磁性开关

标准附件：

- 三爪卡盘 Φ125
- 顶尖 MT2/MT4
- 挂轮
- 各种扳手
- 油盘
- Standard Accessories:
- 3-jaw chuck Φ125
- Dead center MT2/MT4
- Change gears kit
- Hexagon wrench
- Chip tray

Convincing arguments: quality, efficiency and price

- Induction harden bedway
- Enough strong power motor
- Euro-safety magnetic switch or lock key switch

可选附件：

- 中心架 Φ2.5-60
- 跟刀架 Φ2.5-60
- 花盘 Φ90-200mm(Turner 240(V))
Φ90-240mm(Turner 280F(V))
- 四爪卡盘 Φ125mm
- 法兰盘
- 活顶尖 MT2
- 工作灯 JC34A
- 冷却泵 AB-12
- 快换刀架
- 床脚

Optional Accessories:

- Steady rest Φ2.5-60
- Follow rest Φ2.5-60
- Face plate Φ90-200mm(Turner 240(V))
Φ90-240mm(Turner 280F(V))
- 4-jaw chuck Φ125mm
- Back plate
- Live center MT2
- Lamp JC34A
- Coolant pump AB-12
- Quick change tool post
- Stand



TURNER 280F



TURNER 240

机床技术参数 /Specification

型号	Model	Turner240x500	Turner240x500 Vario	Turner 280F	Turner 280FV
产品编号	Code No.	4124102(230V)	4424100	4128102(230V)	4428100
产品编号	Code No.	4124103(400V)		4128103(400V)	
加工范围	Capacity				
床身上最大回转直径	Swing over bed	Ø250mm	Ø250mm	Ø280mm	Ø280mm
拖板上最大回转直径	Swing over cross slide	Ø150mm	Ø150mm	Ø170mm	Ø170mm
两顶尖中心距	Admits between	550mm	550mm	700mm	700mm
主轴中心高	Center height	125mm	125mm	140mm	140mm
床身宽度	Width of bed	135mm	135mm	180mm	180mm
主轴	HEADSTOCK				
主轴通孔直径	Spindle bore	Ø26mm	Ø26mm	Ø26mm	Ø26mm
主轴内孔锥度	Taper of spindle bore	MT4	MT4	MT4	MT4
主轴转速范围	Range of spindle speed	125-2000rpm	50-2200rpm	150-2000rpm	50-2200rpm
进给及螺纹	FEEDS AND THREADS				
小拖板最大行程	Top slide travel	75mm	75mm	60mm	60mm
中拖板最大行程	Cross slide travel	120mm	120mm	150mm	150mm
车刀刀杆最大截面	Max.Section of tool	12x12mm	12x12mm	14x14mm	14x14mm
公制螺纹范围	Threads metric pitches	0.2-3.5mm	0.2-3.5mm	0.2-3.5mm	0.2-3.5mm
英制螺纹范围	Threads imperial pitches	8-56TPI	8-56TPI	8-56TPI	8-56TPI
尾座	TAILSTOCK				
尾座套筒直径	Quill diameter	Ø30mm	Ø30mm	Ø30mm	Ø30mm
尾座套筒行程	Quill travel	70mm	70mm	105mm	105mm
尾座套筒内孔锥度	Quill taper	MT2	MT2	MT2	MT2
横向调整	Cross adjustment	±5mm	±5mm	±5mm	±5mm
电机	MOTOR				
主电机功率	Main motor power	750W	1.1KW	850W DC	1.1KW DC
外形尺寸及重量	DIMENSION AND WEIGHT				
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1110x500x500mm	1110x500x500mm	1220x660x560mm	1220x660x560mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	1200x560x570mm	1200x560x570mm	1320x700x680mm	1320x700x680mm
净重/毛重	Net weight/Gross weight	138/156kg	138/156kg	196/225kg	196/225kg

MULTIFUNCTION LATHE MACHINE

多功能车床 TURNER 250M(V)/TURNER 280M(V)

优质、高效、高性价比

- 超音频淬火床身
- 强功率电机
- 欧洲标准安全磁性开关

Convincing arguments: quality, efficiency and price

- . Induction harden bedway
- . Enough strong power motor
- . Euro-safety magnetic switch or lock key switch



TURNER 250M



TURNER 280M

机床技术参数 /Specification

型号	Model	Turner 250 M	Turner 250 MV	Turner 280 M	Turner 280 MV
产品编号	Code No.	4325000	4325100	4328000	4328100
车床	LATHE				
床身上最大回转直径	Swing over bed	Ø250mm	Ø250mm	Ø280mm	Ø280mm
两顶尖中心距	Distance between centers	550mm	550mm	700mm	700mm
主轴孔径	Spindle bore	Ø21mm	Ø21mm	Ø26mm	Ø26mm
主轴锥度	Spindle taper	MT3	MT3	MT4	MT4
主轴转速	Spindle speeds	125-2000rpm	150-2200rpm	125-2000rpm	50-2200rpm
尾架套筒锥度	Tailstock taper	MT2	MT2	MT2	MT2
公制螺距	Pitch-metric	0.4-3.5mm	0.4-3.5mm	0.2-3.5mm	0.2-3.5mm
英制螺距	Pitch-inch	8-44TPI	8-44TPI	8-56TPI	8-56TPI
电机功率	Motor power	750W	1.1KW	850W	1.1KW
钻铣床	MILL&DRILL				
最大钻孔直径	Max.drilling capacity	Ø16mm	Ø16mm	Ø20mm	Ø20mm
最大面铣能力	Face milling capacity(Max.)	Ø50mm	Ø50mm	Ø63mm	Ø63mm
最大立铣能力	End milling capacity(Max.)	Ø16mm	Ø16mm	Ø20mm	Ø20mm
主轴手动升降行程	Spindle travel manually	175mm	175mm	185mm	185mm
主轴锥度	Spindle taper	MT2/M10	MT2/M10	MT2/M10	MT2/M10
主轴转速	Spindle speed	100-3000rpm	100-3000rpm	100-3000rpm	100-3000rpm
套筒行程	Sleeve travel	50mm	50mm	50mm	50mm
T型槽尺寸 / 长度 / 数量	T-Slots size / Distance / Number	10mm / 35mm / 3	10mm / 35mm / 3	12mm / 63mm / 3	12mm / 63mm / 3
Z 轴行程	Z-axis travel	200mm	200mm	280mm	280mm
Y 轴行程	Y-axis travel	140mm	140mm	170mm	170mm
电机功率	Motor power	500W	500W	750W	750W
包装尺寸	Packing size	1200x620x1060mm	1200x620x1060mm	1370x750x1010mm	1370x750x1010mm
净重 / 毛重	Net weight / Gross weight	192/208kg	192/208kg	266/290kg	266/290kg

标准附件 :

- 三爪卡盘 Ø125
- 顶尖 MT3
- 挂轮 M1.5:30,40,42,52,60,70,75(TURNER 250M)
- M1.5:30,45,50,60(2),65,85(TURNER 280M)
- 各种扳手
- 挡屑板

Standard Accessories:

- 3-jaw chuck Ø125
- Dead center MT3
- Change gears kit
- M1.5:30,40,42,52,60,70,75(TURNER 250M)
- M1.5:30,45,50,60(2),65,85(TURNER 280M)
- Hexagon wrench
- Splash guard

可选附件 :

- 中心架 Ø2.5-60
- 跟刀架 Ø2.5-60
- 花盘 Ø90-200mm(Turner 250M) Ø90-240mm(Turner 280M)
- 四爪卡盘 Ø125mm
- 法兰盘
- 活顶尖 MT2
- 工作灯 JC34A
- 冷却泵
- 快换刀架
- 床脚

Optional Accessories:

- Steady rest Ø2.5-60
- Follow rest Ø2.5-60
- Face plate Ø90-200mm(Turner 250M) Ø90-240mm(Turner 280M)
- 4-jaw chuck Ø125mm
- Back plate
- Live center MT2
- Lamp JC34A
- Coolant pump
- Quick change tool post
- Stand

LATHE MACHINE**车 床 TU 2907****NEW**

机床技术参数 /Specification

型号	Model	TU2907
货号	Item No.	4429100
两顶尖距离	Distance between centers	700mm
床身回转直径	Swing over bed	Ø290mm
中拖板回转直径	Swing over cross slide	Ø175mm
床身宽度	Width of bed	180mm
电机功率	Motor power	1100W
主轴转速	Range of Spindle speed	150-2000rpm
横向进给速度	Range of cross feed	0.0085-0.12mm/rev
纵向进给速度	Range of longitudinal feed	0.07-1.0mm/rev
英制螺纹	Range of imperial thread	8-56TPI
公制螺纹	Range of metric thread	0.2-4mm
主轴锥度	Spindle taper	MT4
主轴通孔直径	Spindle hole	Ø26mm
小拖板行程	Travel top slide	60mm
中拖板行程	Travel cross slide	140mm
尾架套筒行程	Tailstock quill travel	80mm
尾架套筒锥度	Taper of tailstock quill	MT2
包装尺寸	Packing size	1320X700X690mm
净重	Net weight	195Kg

标准附件 :

- 三爪卡盘 Ø125mm
- 四爪卡盘 Ø125mm
- 花盘 Ø250mm
- 顶尖 MT2/MT4
- 刀架防护
- 车床卡盘防护罩
- 四方刀架
- 挂轮
- 工具箱

Standard accessories

- Three-jaw chuck Ø 125 mm
- Four-jaw chuck Ø 125 mm
- Face plate Ø 250 mm
- Center MT2/MT4
- Tool post guard
- Lathe chuck protection
- Quadruple tool holder
- Change gear kit
- Toolbox

LATHE MACHINE

车 床 TU 3008/TU 3008V



TU3008



TU3008V

机床技术参数 /Specification

型号	Model	TU3008	TU3008V
货号	Item No.	4130200	4430200
加工范围	Capacity		
床身上最大回转直径	Turning Ø over lathe bed	Ø310mm	Ø310mm
拖板上最大回转直径	Turning Ø over cross slide	Ø190mm	Ø190mm
两顶尖距离	Admits between	750mm	750mm
主轴中心高	Center height	158mm	158mm
床身宽度	Width of bed	180mm	180mm
主轴	Headstock		
主轴通孔直径	Spindle bore	Ø38mm	Ø38mm
主轴内孔锥度	Spindle taper	MT5	MT5
主轴转速范围	Spindle speed	150/300/600/500 /1000/2000 rpm	30-300/70-700/140-1400/200- 2000/300-3000 rpm
进给及螺纹	Feed and thread		
小拖板最大行程	Top slide travel	65mm	65mm
中拖板最大行程	Cross slide travel	150mm	150mm
公制螺纹范围	Threads metric pitches	0.2-3.5mm/U	0.2-3.5mm/U
英制螺纹范围	Threads inch pitches	56-8 threads/inch	56-8 threads/inch
尾架	Tailstock		
尾架套筒直径	Quill diameter	Ø38mm	Ø38mm
尾架套筒行程	Quill travel	70mm	70mm
尾架套筒内孔锥度	Quill taper	MT3	MT3
电机	Motor		
电压	Electric tension	400V	230V
电机功率	Motor power	1.1KW	1.5KW
尺寸及重量	Dimension and weight		
外形尺寸	Overall dimension	1525×705×583mm	1525×705×583mm
包装尺寸	Packing size	1500×720×690mm	1500×720×690mm
毛重	Gross weight	260kg	260kg

LATHE MACHINE

车 床 TU 3008G

NEW

优质、高效、高性价比

- 全新的齿轮箱变速结构，通过拨档齿轮啮合来变换主轴转速，操作便捷，换速可靠
- 相对于皮带换速，不需要拆装挂轮罩，节省了操作者的工作时间，提高了工作效率
- 具有传动安全可靠，传动精度高等优点

Convincing arguments: quality, efficiency and price

- Adopt brand-new gear-box transmission structure and change the spindle speed through the shift gear engagement which is more convenient by operation and more reliable when change the speed
- Compared to speed change by belt, no need to disassembly and assembly the change-gear cover which can save the working time of operator and also improve the working efficiency
- More safety and reliable by transmission, and higher transmission accuracy

预备

- 预先加工的磁栅槽 X 轴和 Z 轴
- Preparation
- Prepared for measurement system mounting the X and Z axis

拖板

- 四方刀架
- 所有导轨均可调节
- 大尺寸的刀架防护罩

Slide

- Quadruplicate tool holder
- All guideways adjustable via
- V-ledges free of play
- Big dimensioned chip protection
- at the top slide

尾架

- 可调节车前锥度
- 带有 0.02mm 精度可调的尾架套筒和手轮
- 通过锁紧手柄快速方便调节尾架

Tailstock

- Adjustable for taper turning
- Tailstock spindle sleeve and handwheel with
- adjustable precision scaling of 0.02 mm
- Rapid and easy adjustment of the tailstock by means of a clamping lever



TU3008G

机床技术参数 /Specification

型号	Model	TU3008G
货号	Item No.	4530200
加工范围	Capacity	
床身上最大回转直径	Turning ø over lathe bed	ø310mm
拖板上最大回转直径	Turning ø over cross slide	ø190mm
两顶尖距离	Admits between	750mm
主轴中心高	Center height	158mm
床身宽度	Width of bed	180mm
主轴	Headstock	
主轴通孔直径	Spindle bore	ø38mm
主轴内孔锥度	Spindle taper	MT5
主轴转速范围	Spindle speed	180/320/560/820/1500/2600 rpm
进给及螺纹	Feed and thread	
小拖板最大行程	Top slide travel	65mm
中拖板最大行程	Cross slide travel	150mm
公制螺纹范围	Threads metric pitches	0.2-3.5mm/U
英制螺纹范围	Threads inch pitches	56-8 threads/inch
尾架	Tailstock	
尾架套筒直径	Quill diameter	ø38mm
尾架套筒行程	Quill travel	70mm
尾架套筒内孔锥度	Quill taper	MT3
电机	Motor	
电压	Electric tension	400V
电机功率	Motor power	1.1KW
尺寸及重量	Dimension and weight	
外形尺寸	Overall dimension	1525×672×602mm
包装尺寸	Packing size	1500×720×730mm
毛重	Gross weight	243kg

LATHE

标准附件 :

- 三爪卡盘 Ø 160 mm
- 固定中心 MK3 /MK5
- 四方刀架
- 挂轮
- 操作工具

Standard accessories:

- 3-jaw chuck Ø 160 mm
- Fixed center MK3 /MK5
- Quadruple tool holder
- Change gear kit
- Operating tool

可选附件 :

- 中心架 Ø5-Ø60
- 跟刀架 Ø5-Ø60
- 花盘 Ø300 (D1-4)
- 乱扣盘
- 活顶尖 MK3
- 快换刀架
- 数显表 DRO5

Optional accessories:

- Steady rest Ø5-Ø60
- Follow rest Ø5-Ø60
- Face plate Ø300 (D1-4)
- Chasing dial indicator
- Live center MK3
- Quick change tool post
- Digital readout DRO5

LATHE MACHINE

车 床 TURNER 320 / TURNER 360L



LATHE MACHINE

车 床 TURNER 3610



机床技术参数 /Specification

型号	Model	Turner 320	Turner 360L	Turner 3610
产品编号	Code No.	4232300	4237300	4236310
加工范围	Capacity			
床身上最大回转直径	Swing over bed	Ø330mm	Ø360mm	Ø360mm
拖板上最大回转直径	Swing over cross slide	Ø190mm	Ø210mm	Ø210mm
马鞍槽内最大回转直径	Swing in gap diameter	Ø475mm	Ø490mm	Ø490mm
花盘前马鞍有效长度	Length of gap	115mm	115mm	115mm
两顶尖中心距	Admits between	1000mm	1000mm	1000mm
主轴中心高	Center height	165mm	165mm	165mm
床身宽度	Width of bed	185mm	185mm	185mm
主轴	HEADSTOCK			
主轴端部	Spindle nose	D1-4	D1-4	D1-5
主轴通孔直径	Spindle bore	Ø38mm	Ø38mm	Ø52mm
主轴内孔锥度	Taper of spindle bore	MT5	MT5	MT6
主轴转速范围	Range of spindle speed	70-2000rpm	70-2000rpm	70-2000rpm
进给及螺纹	FEEDS AND THREADS			
小拖板最大行程	Top slide travel	95mm	95mm	95mm
中拖板最大行程	Cross slide travel	180mm	180mm	180mm
大丝杆规格	Lead screw thread	4mm	4mm	4mm
车刀刀杆最大截面	Max.Section of tool	16x16mm	16x16mm	16x16mm
公制螺纹范围	Threads metric pitches	0.25-11mm	0.4-7mm	0.4-7mm
英制螺纹范围	Threads imperial pitches	4-112T.P.I.	8-112T.P.I	8-112T.P.I
尾座	TAILSTOCK			
尾座套筒直径	Quill diameter	Ø32mm	Ø32mm	Ø32mm
尾座套筒行程	Quill travel	100mm	100mm	100mm
尾座套筒内孔锥度	Quill taper	MT3	MT3	MT4
电机	MOTOR			
主电机功率	Main motor power	1.5KW	1.5KW	1.5KW
冷却泵功率	Coolant pump power	40W	40W	40W
外形尺寸及重量	DIMENSION AND WEIGHT			
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1820x740x1240mm	1870x740x124mm	1870x740x124mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	1930x760x1450mm	1970x760x1450mm	1970x760x1450mm
净重/毛重	NW/GW	520/640kg	520/640kg	520/640kg

标准附件：

- 直装式三爪卡盘 Ø160/D4
- 挂轮
- 油盘
- 变径套 MT5/MT3
- 死顶尖 MT3 (2只)
- 挡屑板
- 冷却系统
- 工作灯
- 直装式四爪卡盘 Ø200/D4
- 花盘 Ø280 (Turner 320)
Ø280 (Turner 3610)
- 中心架 Ø10-70 (Turner 320)
Ø10-70 (Turner 3610)
- 跟刀架 Ø10-60 (Turner 320)
Ø10-60 (Turner 3610)
- 脚刹
- 床脚

Standard Accessories:

- Straight-mounted 3-jaw chuck Ø160/D4
- Change gear kit
- Chip tray
- Reduction bushes MT5/MT3
- Dead center MT3 (2pcs)
- Splash guard
- Coolant system
- Machine lamp
- Straight-mounted 4-jaw chuck Ø200/D4
- Face plate Ø280 (Turner 320)
Ø280 (Turner 3610)
- Steady rest Ø10-70 (Turner 320)
Ø10-70 (Turner 3610)
- Follow rest Ø10-60 (Turner 320)
Ø10-60 (Turner 3610)
- Foot brake
- Stand

可选附件：

- 车锥度附件
- 活顶尖 MT3
- 丝杆防护罩
- 快换刀架
- 套装组合车刀 16mm 7件套
- 三轴数显装置
- 行程挡铁

Optional Accessories:

- Tapet turning attachment
- Live center MT3
- Leadscrew cover
- Quick change tool post
- Turning tool kit 16mm/7pcs
- 3-axis Digital readout
- 4-way tool holder

LATHE MACHINE

车 床 TURNER 360



TURNER 360

LATHE MACHINE

车 床 TURNER 380H



TURNER 380H

机床技术参数 /Specification

型号	Model	Turner 360	Turner 380H
产品编号	Code No.	4236300	4238303
加工范围	Capacity		
床身上最大回转直径	Swing over bed	Ø355mm	Ø400mm
拖板上最大回转直径	Swing over cross slide	Ø220mm	Ø260mm
马鞍槽内最大回转直径	Swing in gap diameter	Ø505mm	Ø550mm
花盘前马鞍有效长度	Length of gap	145mm	220mm
两顶尖中心距	Admits between	1000mm	1000mm
主轴中心高	Center height	175mm	200mm
床身宽度	Width of bed	205mm	205mm
主轴	HEADSTOCK		
主轴端部	Spindle nose	D1-4	D1-5
主轴通孔直径	Spindle bore	Ø40mm	Ø51mm
主轴内孔锥度	Taper of spindle bore	MT5	MT6
主轴转速范围	Range of spindle speed	45-1800rpm	45-1800rpm
进给及螺纹	FEEDS AND THREADS		
小拖板最大行程	Top slide travel	92mm	92mm
中拖板最大行程	Cross slide travel	176mm	178mm
大丝杆规格	Lead screw thread	4mm	Tr22x4mm/8TPI
车刀刀杆最大截面	Max.Section of tool	16x16mm	16X16mm
公制螺纹范围	Threads metric pitches	0.45-7.5mm	M(37)0.4-7mm IN(22)0.45-7.5mm
英制螺纹范围	Threads imperial pitches	4-56T.P.I.	M(28)4-56TPI IN(40)4-112TPI
尾座	TAILSTOCK		
尾座套筒直径	Quill diameter	Ø45mm	Ø45mm
尾座套筒行程	Quill travel	120mm	115mm
尾座套筒内孔锥度	Quill taper	MT3	MT4
电机	MOTOR		
主电机功率	Main motor power	1.5 / 2.4KW	1.5/2.4KW
冷却泵功率	Coolant pump power	40W	40W
外形尺寸及重量	DIMENSION AND WEIGHT		
外形尺寸 (长x宽x高)	Overall dimension(LxWxH)	1820x740x1250mm	1830x720x1350mm
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	1950x760x1450mm	1950x760x1480mm
净重/毛重	NW/GW	750/830kg	780/850Kg

标准附件 :

- 直装式三爪卡盘 Ø160/D4
- 挂轮
- 油盘
- 变径套 MT5/MT3
- 死顶尖 MT3 (2 只)
- 挡屑板
- 冷却系统
- 工作灯
- 直装式四爪卡盘 Ø200/D4
- 花盘 Ø250 (Turner 360)
Ø250 (Turner 380H)
- 中心架 Ø6-85 (Turner 360)
Ø6-85 (Turner 380H)
- 跟刀架 Ø6-85 (Turner 360)
Ø6-85 (Turner 380H)
- 脚刹
- 床脚

Standard Accessories:

- Straight-mounted 3-jaw chuck Ø160/D4
- Change gear kit
- Chip tray
- Reduction bushes MT5/MT3
- Dead center MT3 (2pcs)
- Splash guard
- Coolant system
- Machine lamp
- Straight-mounted 4-jaw chuck Ø200/D4
- Face plate Ø250 (Turner 360)
Ø250 (Turner 380H)
- Steady rest Ø6-85 (Turner 360)
Ø6-85 (Turner 380H)
- Follow rest Ø6-85 (Turner 360)
Ø6-85 (Turner 380H)
- Foot brake
- Stand

可选附件 :

- 车削度附件
- 活顶尖 MT3
- 丝杆防护罩
- 快换刀架
- 套装组合车刀 16mm 7 件套
- 三轴数显装置
- 行程挡铁

Optional Accessories:

- Tapet turning attachment
- Live center MT3
- Leadscrew cover
- Quick change tool post
- Turning tool kit 16mm/7pcs
- 3-axis Digital readout
- 4-way tool holder

LATHE MACHINE

车 床 TURNER 400x1000

优质、高效、高性价比

- 加工钢铁，有色金属和塑料的理想工具
- 电磁脚刹降低故障率
- 传动进给中的齿轮经淬火和打磨处理
- 该实用结实的机床特色为带丝杆和进刀杆
- 灰口铸铁床身，经淬火和高精度打磨处理
- 主轴配有高质量角面滚珠轴承
- 机床底座为厚重结实的铸铁制造
- 尾架锥度切削可以 +/- 5 mm 调节
- 用于技校，维修车间和培训室的完美机床
- 可方便、顺利、精确地调节速度和进给设置
- 油盘可抽出，带来空间要求最小化
- 可移动式齿桥用于加工大口径工件
- 高性价比，设计时尚
- 标准配置滑动离合器

Convincing arguments: quality, efficiency and price

- Ideal for processing of steel, non-ferrous metals and plastics
- Electro-magnetic foot brake reduces downtime
- Hardened and polished toothed gears also in feed drive
- Practical, solid machine featuring a lead screw and feed rod
- Grey cast-iron machine bed, inductively hardened and precisely polished
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Machine base in heavy cast iron construction
- Tailstock can be adjusted +/- 5 mm for taper turning
- Ideal for technical colleges, repair shops and training purposes
- Easy, smooth and precisely adjustable speed and feed settings
- Pull-out chip tray allows for minimum space requirements
- Removable bridge for processing of work pieces with a large diameter
- Optimal price-benefit ratio, modern design
- Serially equipped with slip clutch



细节展示 Details



· 中心架 & 跟刀架
· Steady rest & Follow rest



· 花盘 Ø320mm
· Face plate Ø320mm



· 刀架与拖板
· Tool post & slide

技术参数 Specification

型号	Model	Turner 400x1000
产品编号	Code No.	4240300
两顶尖中心距	Distance between centers	1000mm
主轴中心高	Center height	200mm
床身上最大回转直径	Swing over bed	Ø400mm
马鞍上最大回转直径	Swing over gap	Ø506mm
拖板上最大工件回转直径	Swing over cross slide	Ø240mm
床身宽度	Bed width	210mm
主轴通孔直径	Spindle bore	Ø52mm
主轴端部	Spindle nose fixture	DIN55029,D1-5
主轴转速	Speed range	(12)45-2000rpm
公制螺纹范围	Metric thread	(36)0.8-14mm
英制螺纹范围	Inch thread	(30)2-28TPI
尾座套筒直径	Diameter of tailstock sleeve	Ø45mm
尾座套筒行程	Travel of tailstock sleeve	100mm
尾座套筒锥度	Taper of tailstock sleeve	MT4
电机功率	Motor power	2.4kw/2.0kw
包装尺寸	Packing size	1930x760x1540mm
净重 / 毛重	N.W./G.W.	820/860kg

标准附件

- 三爪卡盘 K11-200mm/D5
- 四爪卡盘 K72-200 mm / D5
- 中心架 Ø6-85
- 跟刀架 Ø6-85
- 冷却系统
- 花盘 Ø320
- 行程挡铁
- 纵向千分尺
- 刻度盘
- 卤素工作灯
- 变径套 MT5/MT4
- 更换齿轮
- 死顶尖 MT4 (2只)
- 脚刹
- 工具

Standard accessories:

- 3-jaw chuck K11-200 mm / D5
- 4-jaw chuck K72-200 mm / D5
- Steady rest Ø6-85
- Follow rest Ø6-85
- Coolant device
- Face plate 320 mm
- 4-way tool holder
- Micrometer longitudinal fence
- Thread dial
- Halogen lamp
- Reduction bush MT5/MT4
- Change gears
- Dead centers MT4 (2pcs)
- Foot brake
- Tools



• 尾架
• Tailstock



• 三爪卡盘
• 3-jaw chuck
Φ200/D5



• 四爪卡盘
• 4-jaw chuck
Φ200/D5

LATHE

LATHE MACHINE

车床 TURNER 400L



主轴孔径 52mm D1-5
Spindle bore



卤素工作灯
Halogen lamp



铸铁床脚
Iron casting stand

脚刹
Foot brake

TURNER 400L

机床技术参数 /Specification

型号	Model	Turner 400L
货号	Item No.	4239303
加工范围	CAPACITY	
床身上最大回转直径	Swing over bed	Ø400mm
床鞍上最大回转直径	Swing over cross slide	Ø250mm
马鞍槽内回转直径	Swing in gap diameter	Ø520mm
主轴中心高度	Height of center	200mm
两顶尖距离	Distance between centers	1015mm
床身宽度	Width of bed	218mm
主轴	HEADSTOCK	
主轴通孔孔径	Spindle bore	Ø52mm
主轴端部	Spindle nose	D 1-5
主轴内孔锥度	Spindle Morse taper in nose,in sleeve	MT6/MT4
主轴转速范围	Spindle speeds range	65-1800rpm
进给及螺纹	FEEDS AND THREADS	
加工刀具尺寸	Cutting tool max. section	20x20mm
小拖板最大行程	Total travel of top slide	120mm
横向滑板最大行程	Total travel of cross slide	230mm
英制螺纹车削范围	Threads imperial pitches	4-60TPI
公制螺纹车削范围	Threads metric pitches	0.4-7MM
尾架	TAILSTOCK	
尾座套筒行程	Total travel of tailstock quill	110mm
尾座套筒直径	Tails stock quill	Ø52mm
尾座套筒锥度	Taper tailstock quill	MT4
电机	MOTOR	
主轴电机功率	Spindle drive motor	1.5KW
冷却电机功率	Coolant pump motor	40W
外形尺寸及重量	DIMENSION AND WEIGHT	
外形尺寸	Overall dimension	overall:1830x770x1300mm; split:1830x770x700mm
机床包装尺寸	Packing size	overall:2010x870x1580mm; split:2010x870x980mm
机床净重	Net weight	overall:650kg ; split:570kg
机床毛重	Gross weight	overall:760kg ; split:670kg

标准附件 :

- 中心架 Ø6-85
- 跟刀架 Ø6-85
- 花盘 Ø250
- 脚刹

冷却系统

- 工作灯
- 三爪与接盘或直接式三爪
- 四爪与接盘或直接式四爪

可选附件 :

- 钻夹头 MT4
- 活动顶尖
- 快换刀架
- 二轴数显
- 三轴数显
- 定程机构
- 卡盘护罩
- 丝杠护罩
- 光杠安全接合子
- 车锥度附件
- 主电机无级调速

Standard Accessories :

- Steady rest Ø6-85
- Follow rest Ø6-85
- Face plate Ø250
- Foot brake
- Coolant system

Machine lamp

- 3-jaw independent chuck & back plate
- 4-jaw independent chuck & back plate

Optional Accessories :

- Drill chuck MT4
- Live centers
- Quick change tool post
- Digital readout (2 axis)
- Digital readout (3 axis)
- Localizer

Chuck cover

- Leadscrew cover
- Clutch for feed rod
- Taper turning attachment
- Main motor stepless speed regulation

LATHE MACHINE

车床 TURNER 420x1000/1500

Convincing arguments: quality, efficiency and price

- Hardened and ground bed guideways
 - Camlock spindle seat ASA D1 - 6"
 - Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
 - Main spindle running in an oil bath hardened and ground mounted on 2 adjustable precision taper roller bearings
 - All metric thread pitch in the range from 0.2 to 14 mm/r and all inch threads in the range from 72 - 2 threads per inch without replacing the change gears by means of gear levers adjustable on the control panel
 - Emergency-stop push button, protective motor switch, lockable main switch
 - Right-/left-handed rotation at the bed slide, switchable via indexing spindle
 - Central lubrication at the bed slide
 - Cover for leading spindle
 - Mechanical feet spindle brake
 - Adjustable scale of the threading gauge
 - Coolant tank with filling level display and oil separator; easy and complete draining and cleaning according to DIN
 - Serial halogen machine lamp with articulated arm
- DPA machines:
- including digital position display DPA 2000 and glass scales
- Special equipment Vario machine:
- Including VARIO conversion kit 400V
 - Replacement of the Digital position display DPA 2000 against a DPA 2000S

优质、高效、高性价比：

- 床身导轨经淬火和打磨
 - Camlock 主轴安装座 ASAD1-6"
 - 保证主轴端更高精度 (低于 0.015mm)
 - 主轴在油槽中运转 (经淬火和打磨)，带 2 个可调的高精度锥度滚珠轴承
 - 所有公制螺距范围是 0.2-14mm，英制螺纹范围是每英寸 72-2，但是不需要换挂轮，只要调节控制面板上的变速杆就可以
 - 急停开关按钮，防护型电机开关，可锁式主开关
 - 拖板上左右旋转，通过分度轴可切换
 - 拖板上中央润滑
 - 丝杆防护
 - 机械脚刹制动
 - 攻丝表刻度盘可调
 - 冷却水箱带深度显示和分油器；根据 DIN 排水和清洁更容易彻底
 - 系列石英工作灯 (带关节杆)
- DPA 机器
- 包括数显 DPA2000 和光栅尺
- 特殊设备无极变速机器
- 带无极变速转换套件 400V
- 普通数显 DPA2000 换成 DPA2000S

主轴

- 经淬火和打磨
- 油槽运转
- 带 2 个可调高精度锥度滚珠轴承

- 主轴齿轮经淬火和打磨，运转平顺
- 初次加油使用高级润滑油

快动进给齿轮

- 密封型
- 齿轮和轴经淬火和打磨
- 油槽中运行，带高精度轴承

Main spindle

- Hardened and ground
- Running in an oil bath
- Running on 2 adjustable precision taper roller bearings
- Main spindle gearwheels smooth running, hardened and ground
- First filling with high grade Mobil oil

Fast acting feed gear

- Closed type
- Toothed wheels and shafts hardened and ground
- Running in an oil bath on precision bearings

六角刀架 Turret head

- 带工作台鞍座
- 限位精细调节
- With fine adjustment as limit stop for table saddle

拖板

- 精度加工
- 手轮高精度刻度盘可调 0.04/0.02mm
- 四方刀架
- 所有导轨通过 V-ledges 可调
- 小拖板上带切削防护
- 小拖板可调范围为正负 90 度
- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quadruple toolholder
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Adjustment range top slide ± 90°

尾架

- 锥度车削可调正负 13mm
- 尾架套筒和手轮带可调精度刻度尺
- Tailstock
- Adjustable by ± 13 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling

- 丝杆防护罩 (可选)
- Leadscrew cover (For optional)

车床卡盘

- 高精度
- 更高转速
- 更高同心度和重复性

Lathe chuck

- Precise
- Higher speed is enabled
- High concentricity and repeatability

马鞍

- 通过拿掉马鞍车削直径增加到 Ø590mm

Bed bridge

- The turning diameter is increased to Ø590 mm by taking out the bed bridge

底架和床身

- 米哈奈特铸件床身
- 一体铸件床身
- Base frame and lathe bed
- Meehanite casting
- One-piece casting

TURNER 420

机床技术参数 /Specification

型号	Model	Turner 420 x 1000	Turner 420 x 1500
产品编号	Code No	4242300	4242400
DPA-型号	DPA - model	Turner 420 x 1000 DPA	Turner 420 x 1500 DPA
产品编号	Code No	4242380	4242480
电气连接	Electrical connection		
总功率	Total connected value	2.2/3.3 kW	
冷却泵电机功率	Coolant equipment	100 W	
工作范围	Working areas		
主轴中心高	Centre height	210 mm	
两顶尖中心距	Centre width	1'000 mm	1'500 mm
床身上最大回转直径	Swing over bed	Ø420 mm	
拖板上最大回转直径	Swing over cross slide	Ø250 mm	
马鞍上最大回转直径	Turning Ø in the bed bridge	Ø590 mm	
马鞍长度	Length of bed bridge	260 mm	
床身宽	Bed width	250 mm	
速度	Speeds		
主轴转速	Spindle speed	45 - 1'800 rpm	
无级变速主轴转速	Spindle speed Vario-machine	30 - 1'800 rpm	
转速级数	Number of steps	16 stages; for Vario-models electr. adjustable speed	
主轴	Headstock		
主轴锥度	Spindle taper	MT6	
主轴端部	Spindle seat	Camlock ASA D1 - 6"	
主轴通孔直径	Spindle drilling, rod passage	Ø 52 mm	
进给及螺纹	Slide		
小拖板行程	Travel top slide	140 mm	
中拖板行程	Travel cross slide	230 mm	
公制螺纹范围	Pitch - Metric in the range of	0.2 - 14 mm/rev; 39 thread pitches	
英制螺纹范围	Pitch - Inch in the range of	72 - 2 threads/1"; 45 thread pitches	
车刀刀杆最大截面	Max. section of tool	20 x 20 mm	
尾座	Tailstock		
尾座内孔锥度	Tailstock seat	MT4	
尾座套筒行程	Tailstock - sleeve travel	120 mm	
尾座套筒直径	Quill diameter	50mm	
尺寸	Dimensions		
长	Length	2'060 mm	2'550 mm
宽x高	Width x Height	900 x 1'650 (DPA 1'615) mm	
净重	Net weight	1'160/1350 kg	1'340/1565kg

标准附件 Standard equipment

- Three-jaw lathe chuck Ø 200 mm
- Four-jaw chuck Ø 250 mm with universally adjustable jaws
- Face clamping disc Ø 350 mm
- Reducing bush MT6/MT4
- 2 steady centres MT4
- Steady rest Passage Ø max. 145 mm
- Follow rest Passage Ø max. 75 mm
- Machine substructure
- Spindle brake
- Splash board mounted
- Lathe chuck protection
- Chip protection at the top slide
- Turret stop with fine adjustment
- Threading gauge
- Quadruple tool holder
- Coolant equipment
- Machine lamp
- Change gear kit
- Operating tool
- First filling with high grade Mobil oil
- 三爪卡盘 Ø200mm
- 四爪卡盘 Ø250mm 带通用可调软爪
- 多面夹紧盘 Ø250mm
- 变径套 MT6/MT4
- 2个稳定中心 MT4
- 中心架最大 Ø145mm
- 跟刀架最大 Ø75mm
- 机器带底座
- 主轴刹车制动
- 装有挡屑板
- 车床卡盘防护罩
- 小拖板处有切削防护罩
- 定位限位带精细调节
- 车螺纹测量器
- 四方刀架
- 冷却设备
- 工作灯
- 挂轮
- 操作工具
- 初次加油使用高级润滑油

可选附件 Optional accessories

- GD-125 车床内外径研磨机
- GD-125 Lathe diameter grinding machine



LATHE MACHINE

车 床 TURNER 410x1000/1500 TURNER 460x1000/1500 TURNER 510x1500/2000/3000 TURNER 560x1500/2000/3000

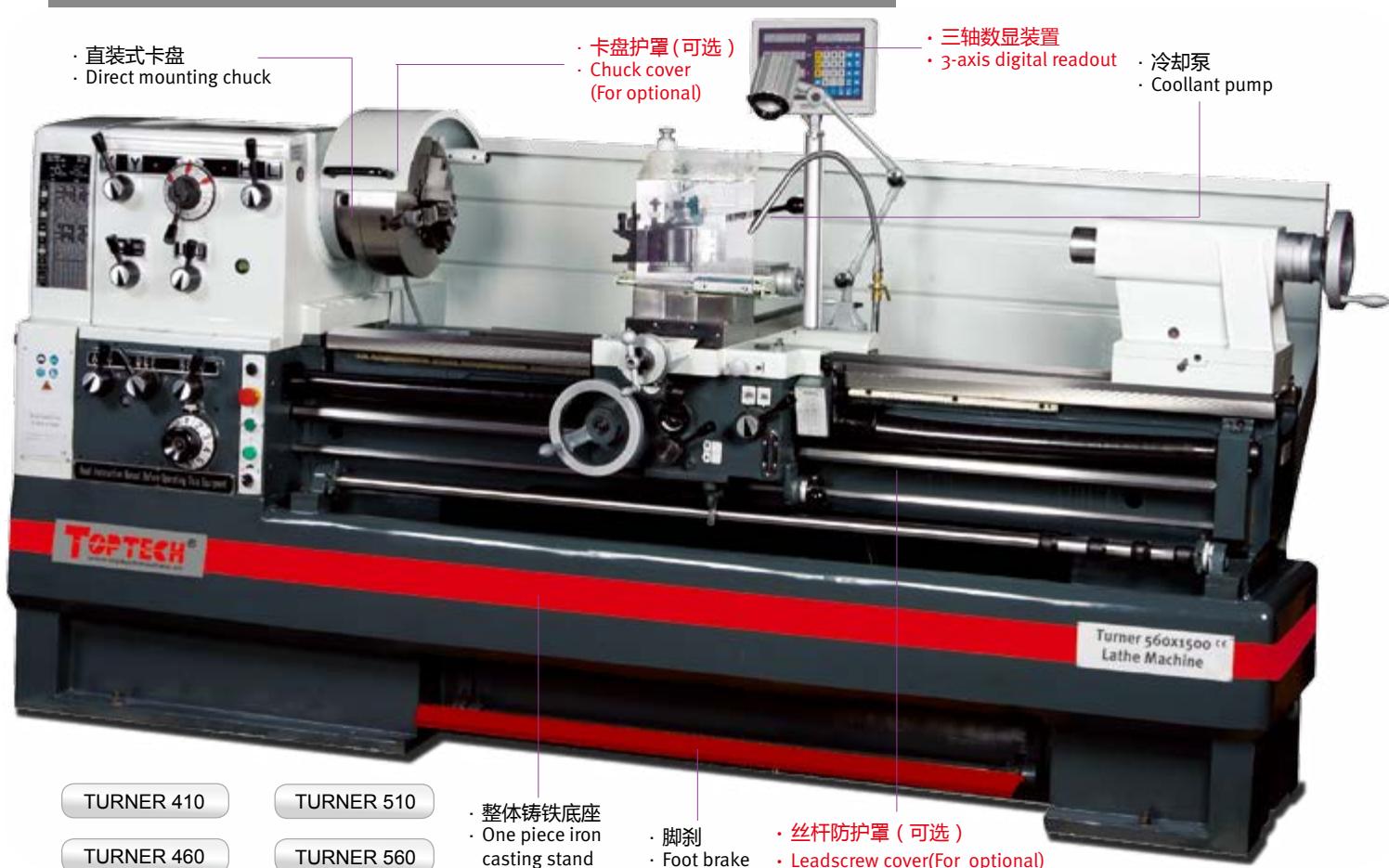
优质、高效、高性价比

- 超音频淬火床身
- 强功率电机
- 欧洲标准安全磁性开关

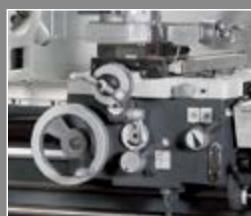
Convincing arguments: quality, efficiency and price

- Induction harden bedway
- Enough strong power motor
- Euro-safety magnetic switch or lock key switch

强劲动力工业车床
Power for industry



细节展示 Details



- 多功能溜板箱，操作简单灵活
· Good funcation & Easy operate apron



- 大范围强力进给箱
· Big range & power feed box

可选附件 Optional accessories

- GD-125 车床内外径研磨机
· GD-125 Lathe diameter grinding machine



机床技术参数 /Specification

型号	Model	Turner 410/Turner 460	Turner 510/Turner 560
产品编号	Code No.	4241300/4246400	4251400/4256400
加工范围	CAPACITY		
床身上最大回转直径	Swing over bed	Ø410mm/Ø460mm	Ø510mm/Ø560mm
拖板上最大回转直径	Swing over cross slide	Ø220mm/Ø270mm	Ø305mm/Ø355mm
马鞍板上最大回转直径	Turning Ø without bed bridge	Ø640mm/Ø690mm	Ø735mm/Ø785mm
花盘前马鞍有效长度	Length of gap	165mm	170mm
两顶尖中心距	Admits between	1000mm/1500mm	1500mm/1500mm
主轴中心高	Center height	205mm/230mm	255mm/280mm
床身宽度	Width of bed	300mm	350mm
主轴	HEADSTOCK		
主轴端部	Spindle nose	D1-6	D1-8
主轴通孔直径	Spindle bore	Ø58mm/Ø80mm(For optional)	Ø80mm/Ø105mm(For optional)
主轴内孔锥度	Spindle taper	MT6	MT7
主轴转速范围	Range of spindle speed	25-2000rpm	25-1600rpm
进给及螺纹	FEEDS AND THREADS		
小拖板行程	Top slide travel	128mm	130mm
中拖板行程	Cross slide travel	285mm	316mm
车刀刀杆最大截面	Max.Section of tool	25x25mm	25x25mm
公制螺纹范围	Threads metric pitches	0.1-14mm	0.2-14mm
英制螺纹范围	Threads imperial pitches	2-112TPI	2-112TPI
尾座	TAILSTOCK		
尾座套筒直径	Quill diameter	Ø60mm(2-5/16")	Ø75mm
尾座套筒行程	Quill travel	120mm(4-3/4")	180mm
尾座套筒内孔锥度	Quill taper	MT4	MT5
电机	MOTOR		
主电机功率	Main motor power	4 / 5.5KW	7.5KW
冷却泵功率	Coolant pump power	0.125KW	0.1KW
外形及重量	DIMENSION AND WEIGHT		
包装箱尺寸 (长x宽x高)	Packing size(LxWxH)	2850x1120x1700mm	2960x1130x1820mm
净重/毛重	N.W./G.W.	1670/1980kg 2020/2385kg	2335/2700kg 2370/2740kg

标准附件 :

- 三爪卡盘 Ø250/D6 (TURNER 410/460)
Ø315/D8 (TURNER 510/560)
- 挂轮
- 油盘
- 变径套 MT6/MT4
- 死顶尖 莫氏 DG4(TURNER410/460)
莫氏 DT7/5 DX5(TURNER 510/560)
- 挡屑板
- 冷却系统

Standard Accessories:

- 3-jaw chuck Ø250/D6 (TURNER 410/460)
Ø315/D8 (TURNER 510/560)
- Change gear kit
- Chip tray
- Reduction bush MT6/MT4
- Dead center
Morse DG4(TURNER410/460)
Morse DT7/5 DX5(TURNER 510/560)
- Splash guard
- Coolant system

乱扣盘

- 中心架 Ø25-178(TURNER 410/460)
Ø19-165(TURNER 510/560)
- 跟刀架 Ø19-114(TURNER 410/460)
Ø16-95(TURNER 510/560)
- 工作灯
- 四爪卡盘 Ø300/D6(TURNER 410/460)
Ø350/D8(TURNER 510/560)
- 花盘 Ø350(TURNER 410/460)
Ø450(TURNER 510/560)

Chasing dial indicator

- Steady rest Ø25-178(TURNER 410/460)
Ø19-165(TURNER 510/560)
- Follow rest Ø19-114(TURNER 410/460)
Ø16-95(TURNER 510/560)
- Work light
- 4-jaw chuck Ø300/D6(TURNER 410/460)
Ø350/D8(TURNER 510/560)
- Face plate Ø350(TURNER 410/460)
Ø450(TURNER 510/560)

可选附件 :

- 车锥度附件
- 活顶尖
- 丝杆防护罩
- 快换刀架 SWH5-B
- 套装组合车刀
- 三轴数显
- 卡盘护罩
- 中心架 Ø140-270(TURNER 510/560)

Optional Accessories:

- Taper turning attachment
- Live center
- Leadscrew cover
- Quick change tool post SWH5-B
- Turning tool kit
- 3-Axis digital readout
- Chuck cover
- Steady rest Ø140-270 (TURNER 510/560)

LATHE MACHINE (NEW LINE)

车 床 TURNER 530x1500/2000

TURNER 600x1500/2000

TURNER 680x1500/2000

优质、高效、高性价比：

- 整体型铸铁床脚
- 床身 400mm 宽，高硬度，稳定精度
- 主电机 11KW (15HP) - 可选

Convincing arguments: quality, efficiency and price

- Whole piece casting iron foot stand
- 400mm width of bedway , high rigidity , stable precision
- 11KW(15HP)main motor for optional

标准附件

- 三爪卡盘
- 冷却系统
- 套筒和中心
- 脚刹制动系统
- 工具箱和工具 1 套
- 中心架
- 跟刀架
- 花盘
- 工作灯
- 四爪独立卡盘 / 法兰盘

Standard Accessories:

- Three jaw chuck
- Coolant system
- Sleeve and center
- Footbrake system
- Toolbox&tools 1 set
- Steady Rest
- Follow Rest
- Face Plate
- Work light
- 4-jaw Independent Chuck&Back Plate

可选附件

- 钻夹头
- 活顶尖
- 快换刀架
- 数显 (2 轴)
- 数显 (3 轴)
- 卡盘防护罩
- 丝杆防护
- 车锥度附件

Optional Accessories:

- Drill Chuck
- Rolling Centres
- Quick Change Tool Post
- Digital readout(2Axis)
- Digital readout(3Axis)
- Chuck cover
- Leadscrew guard
- Taper Turning Attachment

数显 (可选)

- 易操作
- 大幅减少生产加工时间
- Digital position display (For optional)
- Easy-to-operate
- Considerable reduction of the manufacturing times



尾架

- 锥度车削可调正负 15mm
- 尾架套筒和手轮带可调精度刻度尺
- Tailstock
- Adjustable by ± 15 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling

快移 (可选)

- 通过按钮和操纵杆起动横、纵向快移
- 更高的工作效率
- 触及限位开关无法启动整个机床
- Rapid feed (For optional)
- Push button and selector lever to activate the rapid feed for transverse and longitudinal direction
- For more efficient working
- Does not switch the whole machine, if the limit switch is retracted

主轴

- 经淬火和打磨
- 油槽运转
- 带 3 个可调高精度锥度滚珠轴承
- 主轴齿轮经淬火和打磨，运转平顺
- 初次加油使用高级润滑油
- 快动进给齿轮
- 密封型
- 齿轮和轴经淬火和打磨
- 油槽中运行，带高精度轴承

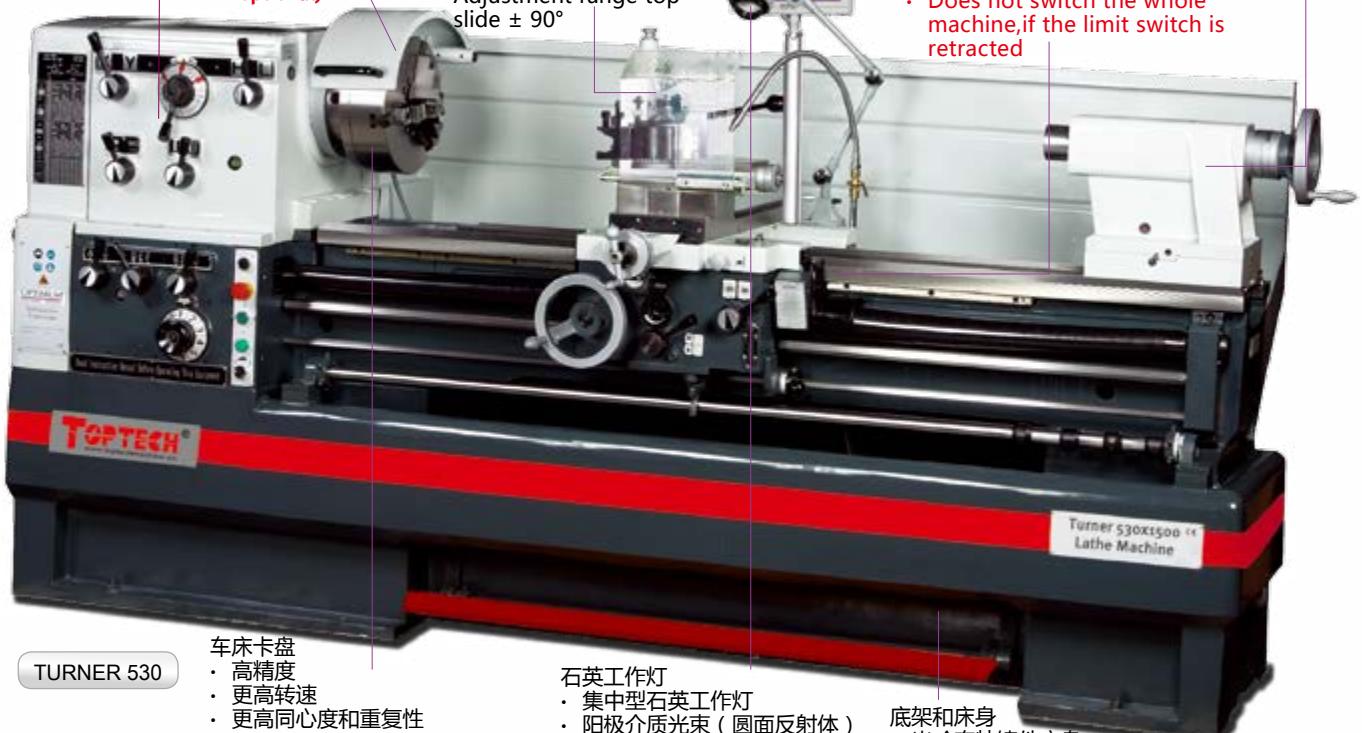
Main spindle

- Hardened and ground
- Running in an oil bath
- Running on 3 adjustable precision taper roller bearings
- Main spindle gear-wheels smooth running, hardened and ground
- First filling with high grade Mobil oil
- Fast acting feed gear
- Closed type
- Toothed wheels and shafts hardened and ground
- Running in an oil bath on precision bearings

卡盘护罩 (可选)
Chuck cover (for optional)

拖板

- 精度加工
- 手轮高精度刻度盘可调 0.04/0.02mm
- 快换刀架
- 所有导轨通过V-ledges可调
- 小拖板上带切削防护
- 小拖板可调范围为正负90度
- Slide
- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quick-action tool holder
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Shafts and wheels running in the oil bath
- Adjustment range top slide ± 90°



车床卡盘

- 高精度
- 更高转速
- 更高同心度和重复性
- Lathe chuck
- Precise
- Higher speed is enabled
- High concentricity and repeatable clamping accuracy

石英工作灯

- 集中型石英工作灯
- 阳极介质光束 (圆面反射体)
- Halogen machine lamp
- Concentrated halogen light
- Anodized medium beams as round reflectors

底架和床身

- 米哈奈特铸件床身
- 一体铸件床身
- Base frame and lathe bed
- Meehanite casting
- One-piece casting

机床技术参数 /Specification

型号	Model	Turner 530x1500/2000	Turner 600x1500/2000	Turner 680x1500/2000
产品编号	Code No.	4253400/4253500	4260400/4260500	4268400/4268500
加工范围	Capacity			
床身上最大回转直径	Swing over bed	Ø530mm	Ø600mm	Ø680mm
拖板上最大回转直径	Swing over cross slide	Ø329mm	Ø399mm	Ø479mm
马鞍上最大回转直径	Swing in GAP(D×W)	Ø765×218mm(D1-8) /Ø765×240mm(A1-8)	Ø838mm×218mm(D1-8) /Ø835×240mm(A1-8)	Ø918mm×218mm(D1-8) /Ø915×240mm(A1-8)
主轴中心高	Height of center	265mm	300mm	380mm
两顶尖中心距	Distance between centers	1500/2000mm	1500/2000mm	1500/2000mm
床身宽度	Width of bed	400mm	400mm	400mm
主轴	Headstock			
主轴通孔直径	Spindle bore	Ø82	Ø82	Ø82
主轴端部	Spindle nose Spindle morse taper in nose,in sleeve	D1-8 or A1-8	D1-8 or A1-8	D1-8 or A1-8
主轴内外锥度		ME90/MT5	ME90/MT5	ME90/MT5
主轴转速级数	Spindle speeds number	12	12	12
主轴转速范围	Spindle speeds range	20-1600rpm	20-1600rpm	20-1600rpm
进给及螺纹	Feeds and threads			
车刀杆最大尺寸	Cutting tool max.section	25x25mm	30x30mm	25x25mm
中拖板总行程	Total travel of cross slide	320mm	358mm	438mm
小拖板总行程	Total travel of top slide	200mm	200mm	200mm
英制螺纹范围	Threads imperial pitches	4-112TPI	4-112TPI	4-112TPI
公制螺纹范围	Threads metric pitches	0.25-7mm	0.25-7mm	0.25-7mm
尾架	Tailstock			
尾座套筒行程	Total travel of tailstock quill	180mm	180mm	180mm
尾座套筒直径	Tails stock quill	Ø80	Ø75	Ø80
尾座套筒内孔锥度	Taper tailstock quill	MT5	MT5	MT5
电机	Motor			
主轴电机	Spindle drive motor	7.5KW	7.5KW	7.5KW
冷却泵电机功率	Coolant pump motor	0.09KW	0.09KW	0.09KW
外形尺寸及重量	Dimension and weight			
净重	Net weight	2750/3010kg	2820/3080kg	2900/3160kg
毛重	Cross weight	3090/3400kg	3180/3490kg	3260/3570kg
包装尺寸	Packing size	3335x1110x1900mm	3335x1110x1900mm	3270/3770x1150x1900mm

细节展示 Details


- 多功能溜板箱，操作简单灵活
- Good funcation & Easy operate apron



- 大范围强力进给箱
- Big range & power feed box

可选附件 Optional accessories

- GD-125 车床内外径研磨机
- GD-125 Lathe diameter grinding machine



LATHE

LATHE MACHINE**车 床****TURNER 660x2000****660x3000****TURNER 800x2000****800x3000****细节展示 Details**

· 尾架
· Tailstock



· 主轴箱 & 进给箱
· Spindle box & feed box



· 中心架
· Steady rest



· 多功能溜板箱
· Good funcation box

- 标准附件 :
- 三爪卡盘 $\Phi 315/D8$
- 挂轮
- 油盘
- 变径套
- 死顶尖
- 挡屑板
- 冷却系统
- 乱扣盘
- 中心架 $\Phi 20-170$
- 跟刀架 $\Phi 20-130$
- 工作灯
- 四爪卡盘 $\Phi 400/D8$
- 花盘 $\Phi 450$

- Standard Accessories:
- 3-jaw chuck $\Phi 315/D8$
- Change gear kit
- Chip tray
- Reduction bush
- Dead center
- Splash guard
- Coolant system
- Chasing dial indicator
- Steady rest $\Phi 20-170$
- Follow rest $\Phi 20-130$
- Work light
- 4-jaw chuck $\Phi 400/D8$
- Face plate $\Phi 450$

- 可选附件 :**
- 车锥度附件
 - 活顶尖
 - 丝杆防护罩
 - 快换刀架
 - 套装组合车刀
 - 三轴数显
 - 卡盘护罩
 - 中心架 $\Phi 190-380$
 - GD-125 车床内外径研磨机

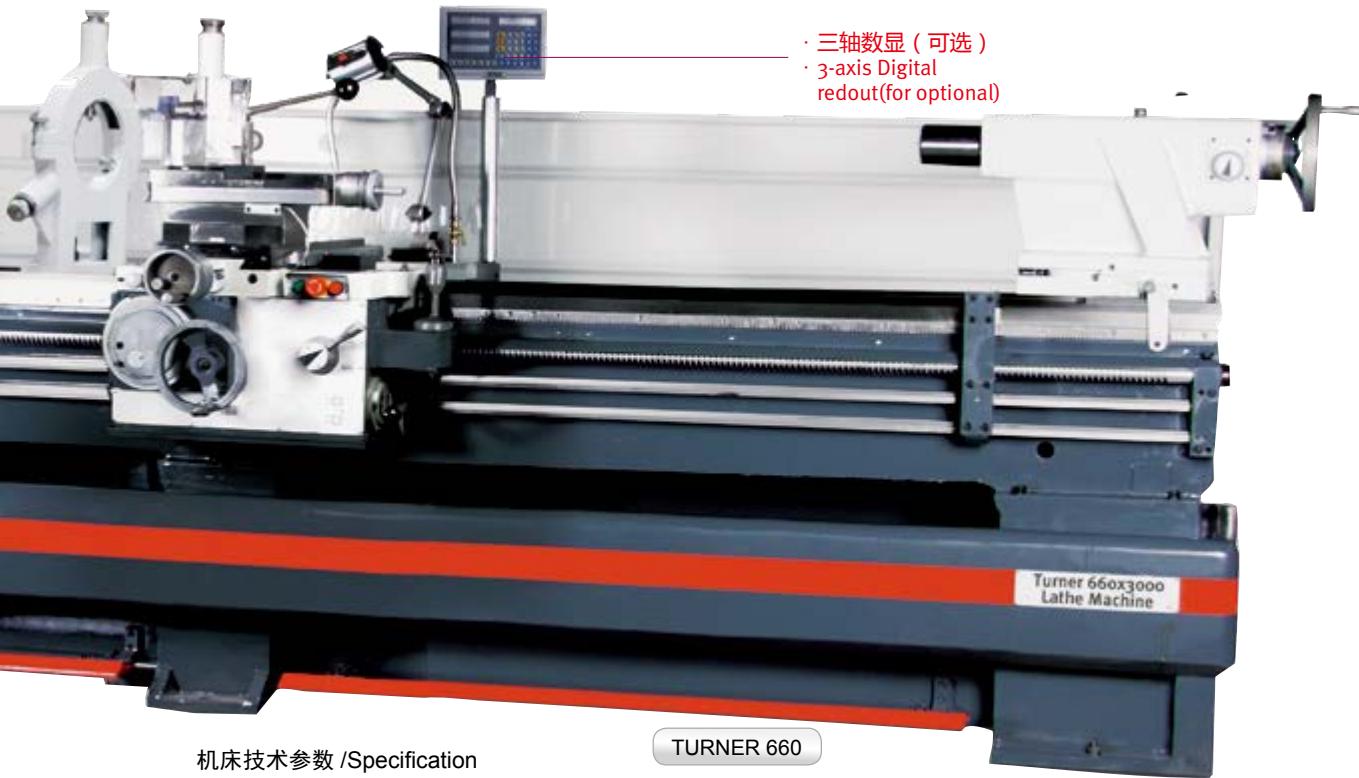
- Optional Accessories:**
- Tapet turning attachment
 - Live center
 - Leadscrew cover
 - Quick change tool post
 - Turning tool kit
 - 3-Axis digital readout
 - Chuck cover
 - Steady rest $\Phi 190-380$
- GD-125 Lathe diameter grinding machine**



三轴数显装置
3-axis digital readout



GD-125 车床内外径研磨机
GD-125 Lathe diameter grinding machine



机床技术参数 /Specification

TURNER 660

型号	Model	Turner 660x2000 Turner 660x3000	Turner 800x2000 Turner 800x3000
产品编号	Code No.	4266500/4266700	4280500/4280700
加工范围	Capacity		
床身上最大回转直径	Swing over bed	Ø660mm	Ø800mm
拖板上最大回转直径	Swing over cross slide	Ø440mm	Ø570mm
马鞍槽内最大回转直径	Swing in gap diameter	Ø900mm	Ø1035mm
花盘前马鞍有效长度	Length of gap	250mm	250mm
两顶尖中心距	Admits between	2000mm/3000mm	2000mm/3000mm
主轴中心高	Center height	330mm	400mm
床身宽度	Width of bed	400mm	400mm
主轴	HEADSTOCK		
主轴端部	Spindle nose	D1-8	D1-8
主轴通孔直径	Spindle bore	Ø105mm	Ø105mm
主轴内孔锥度	Taper of spindle bore	1:20/MT5	1:20/MT5
主轴转速范围	Range of spindle speed	25-1600rpm	25-1600rpm
进给及螺纹	FEEDS AND THREADS		
小拖板最大行程	Top slide travel	230mm	230mm
中拖板最大行程	Cross slide travel	368mm	420mm
大丝杆规格	Lead screw thread	Ø40mm x 2 TPI or Ø40mm x 12mm	Ø40mm x 2 TPI or Ø40mm x 12mm
车刀刀杆最大截面	Max.Section of tool	25x25mm	25x25mm
公制螺纹范围	Threads metric pitches	0.45-120mm(54kinds)	0.45-120mm(54kinds)
英制螺纹范围	Threads imperial pitches	7/16-80T.P.I.(54kinds)	7/16-80T.P.I.(54kinds)
尾座	TAILSTOCK		
尾座套筒直径	Quill diameter	Ø90mm	Ø90mm
尾座套筒行程	Quill travel	235mm	235mm
尾座套筒内孔锥度	Quill taper	MT5	MT5
横向调整	Cross adjustment	±13mm	±13mm
电机	MOTOR		
主电机功率	Main motor power	7.5KW	7.5KW
冷却泵功率	Coolant pump power	0.1KW	0.1KW
外形尺寸及重量	DIMENSION AND WEIGHT		
外形尺寸 (长×宽×高)	Overall dimension(L×W×H)	3710X1230X1600mm/ 4710X1230X1600mm	3710X1230X1670mm/ 4710X1230X1670mm
包装尺寸 (长×宽×高)	packing size(L×W×H)	3740X1140X1840mm/ 4740X1140X1840mm	3740X1140X1910mm/ 4740X1140X1910mm
净重/毛重	NW/GW	3345/3835kg 3710/4310kg	3455/4005kg 3820/4495kg

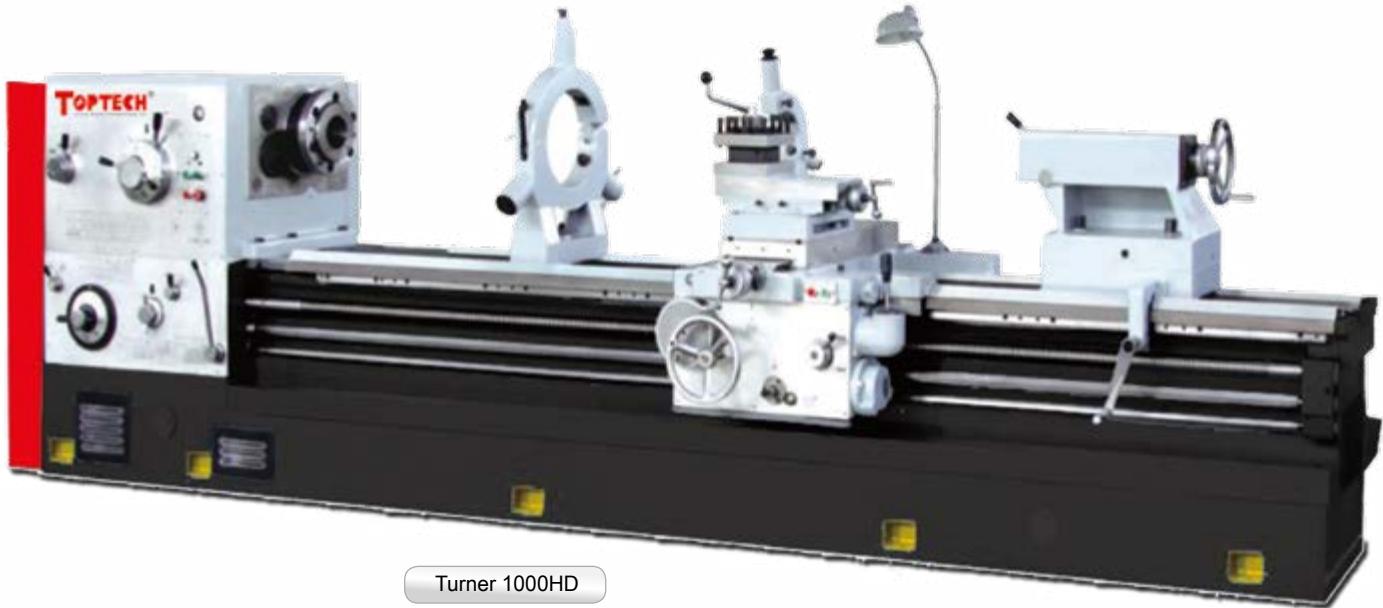
LATHE MACHINE**车 床**
TURNER 800H
TURNER 1000H
TURNER 1200H
**床身宽度 Bed width 550mm**

Turner 1200H

Standard accessories:	标准配置 :	备注 Remark
Driving plate ø350	拨盘 ø350	
Three-jaw chuck ø325	三爪卡盘 ø325	
Three-jaw chuck sect	三爪卡盘座	
Four-jaw chuck ø400	四爪卡盘 ø400	
Four-jaw chuck sect	四爪卡盘座	
Spindle Center	主轴顶尖	
Tailstock center	尾座顶尖	
Center sleeve	顶尖套	
Tool post spanner	刀架扳手	
Steady rest	中心架	小于2M车床不配中心架，8M以上车床配2只中心架， 其余配1只。 Below 2M without steady rest, above 8M with two steady rests, others with one.
Follower rest	跟刀架	小于3M车床不配跟刀架，其余配1只跟刀架。 Below 3M without follow rest, others with one.
Iron gasket	调整垫铁	
Thread dial	乱扣盘	
Round nut spanner	圆螺母扳手	
<hr/>		
Special accessories:	特殊配置 :	
Taper turning attachment	锥度靠模	
Face chuck ø800mm/ø1000mm	花盘 ø800mm/ø1000mm	
Three-jaw chuck ø400mm	三爪卡盘 ø400mm	
Four-jaw chuck ø630mm	四爪卡盘 ø630mm	


机床技术参数 /Specification

型号	MODEL	Turner 800H	Turner 1000H	Turner 1200H
货号	Item No.	4602000	4613000	4603000
加工能力	CAPACITIES			
床身上最大回转直径	Max.swing over bed	Ø800mm	Ø1000mm	Ø1200mm
横拖板上最大回转直径	Max.swing over cross slide	Ø485mm	Ø685mm	Ø800mm
两顶尖距	Center distance	1000 / 1500 / 2000 / 3000 / 4000 / 5000 / 6000 / 8000 / 10000mm		
马鞍上最大回转直径	Max.swing over gap	Ø1000mm	Ø1200mm	Ø1400mm
花盘前马鞍有效长度	Valid length of gap	300m	300m	300m
床身宽度	Bed width	550mm	550mm	550mm
床头箱	HEAD-STOCK			
主轴孔径	Spindle hole	Ø105mm/Ø130mm(可选)		
主轴端部尺寸	Spindle nose	C-11 or D-11/ C-15 or D-15 (可选)	C-11 or D-11/ C-15 or D-15 (可选)	C-11 or D-11/ C-15 or D-15 (可选)
主轴锥孔	Spindle taper	1:20	1:20	1:20
主轴转速范围 (级数)	Spindle speeds(Number)	14-750RPM(18 STEPS)	14-750RPM(18 STEPS)	14-750RPM(18 STEPS)
进给箱	GEAR BOX-THREADS & FEEDS			
公制螺纹范围 (种数)	Metric threads range(kinds)	1-240mm(54 kinds)	1-240mm(54 kinds)	1-240mm(54 kinds)
英制螺纹范围 (种数)	Inch threads rangs(Kinds)	28-1 TPI(36 kinds)	28-1 TPI(36 kinds)	28-1 TPI(36 kinds)
拖板	CARRIAGE			
中拖板行程	Cross slide travel	420mm	520mm	520mm
小拖板行程	Top slide travel	200mm	200mm	200mm
车刀杆尺寸	Size of tool shank	32×32mm	32×32mm	32×32mm
尾座	TAILSTOCK			
尾座套筒直径	Spindle diameter	Ø100mm	Ø120mm	Ø120mm
尾座套筒锥度	Spindle taper	MT6	MT6	MT6
尾座套筒行程	Spindle travel	240mm	240mm	240mm
电机功率	MOTOR			
主轴功率	Spindle power	11KW	11KW	11KW
冷却泵电机	Coolant pump motor	0.09KW	0.09KW	0.09KW
快速进给电机	Rapid feed motor	1.1KW	1.1KW	1.1KW
净重	N.W.			
两顶尖距为 : (1500mm)	Genter distance:(1500mm)	4800kg	5300kg	5800kg
外形尺寸 (长*宽*高)	WEIGHT FLOOR SPACE(L*W*H)			
两顶尖距为 : (1500mm)	Genter distance: (1500mm)	3452x1326x1390mm	3452x1326x1390mm	3452x1326x1390mm

LATHE MACHINE**车 床 TURNER 1000HD/1200HD****床身宽度 Bed width 600mm**

Standard accessories:	标准配置 :	备注 Remark
Three-jaw chuck ø325	三爪卡盘 ø325	
Three-jaw chuck sect	三爪卡盘座	
Four-jaw chuck ø400	四爪卡盘 ø400	
Four-jaw chuck sect	四爪卡盘座	
Spindle Center	主轴顶尖	
Tailstock center	尾座顶尖	
Center sleeve	顶尖套	
Square socket wrench	方套筒扳手	
Steady rest	中心架	小于2M车床不配中心架，8M以上车床配2只中心架， 其余配1只。 Below 2M without steady rest, above 8M with two steady rests, others with one.
Follower rest	跟刀架	小于3M车床不配跟刀架，其余配1只跟刀架。 Below 3M without follow rest, others with one.
Iron gasket	调整垫铁	
Special accessories:	特殊配置 :	
Face plate ø800mm/ø1000mm	花盘 ø800mm/ø1000mm	
Larger size steady rest ø200-ø450	大规格中心架 ø200-ø450	
Compound slide auto feed	小刀架自动走刀	
Taper turning attachment	锥度靠模	
Three-jaw chuck ø400mm	三爪卡盘 ø400mm	
Four-jaw chuck ø630mm	四爪卡盘 ø630mm	

机床技术参数 /Specification

型号	MODEL	Turner 1000HD	Turner 1200HD
货号	Item No.	4813000	4803000
加工能力	CAPACITY		
床身上最大回转直径	Max.swing over bed	Ø1000mm	Ø1200mm
马鞍内最大回转直径	Max.swing over gap	Ø1200mm	Ø1400mm
横拖板上最大回转直径	Max.swing over cross slide	Ø680mm	Ø680mm
两顶尖距	Center distance	1m 1.5m 2m 3m 4m 5m 6m 8m 10m 12m	1m 1.5m 2m 3m 4m 5m 6m 8m 10m 12m
床身导轨宽度	Width of bed	600mm	600mm
床头箱	HEAD STOCK		
主轴孔径	Spindle hole	Ø105mm 或 Ø130mm (可选)	
主轴锥孔	Spindle taper	1:20	1:20
主轴转速范围	Spindle speeds	5.5-730 rpm	5.5-730 rpm
进给系统	GEAR Box-threads&feeds		
公制螺纹mm	Metric threads mm	1-240mm (52)	1-240mm (52)
英制螺纹TPI	Inch threads TPI	1-14 (26)TPI	1-14 (26)TPI
快速进给纵向/横向	Rapid feed:long/cross	4000mm/min,2000mm/min	4000mm/min,2000mm/min
刀架	TOOL-POST		
刀具截面	Tool section	32×32mm	32×32mm
拖板	CARRIAGE		
滑板最大横向行程	Cross slide travel	520mm	520mm
小拖板最大行程	Top slide travel	200mm	200mm
尾座	TAILSTOCK		
尾座套筒直径	Sleeve diameter	Ø120mm	Ø120mm
尾座套筒锥度	Sleeve taper	MT6	MT6
尾座套筒最大行程	Sleeve travel	240mm	240mm
中心架	Steady rest	Ø100-300mm	Ø100-300mm
跟刀架	Follow rest	Ø20-135mm	Ø20-135mm
电机功率	MOTOR		
主电机	Main motor	11KW	11KW
快速进给电机	Rapid feed motor	1.1KW	1.1KW

Turner 1000HD 净重 (kg) 外形尺寸 (长宽高)	Turner 1000HD Net weight(kg) Dimention(L×W×H)	2000mm	5600kg	4000×1170×1250mm
		3000mm	6200kg	5000×1170×1250mm
		4000mm	6800kg	6000×1170×1250mm
		5000mm	7400kg	7000×1170×1250mm
		6000mm	8000kg	8000×1170×1250mm
		8000mm	9200kg	10000×1170×1250mm
		10000mm	10500kg	12000×1170×1250mm
		12000mm	11800kg	14000×1170×1250mm

LATHE MACHINE**车 床 TURNER I400HM/I600HM****床身宽度 Bed width 780mm**

Standard accessories:	标准配置 :	备注 Remark
Four-jaw chuck ø1250	四爪卡盘 ø1250	
Main spindle centre Morse 6#	主轴顶尖 莫氏 6#	
Centre sleeve	顶尖套	
Tailstock centre Metric 8o	尾架顶尖 公制8o	
Fixed wrench by four-jaw chuck	四爪卡盘固定扳手	
Steady rest ø50-ø470	中心架 ø50-ø470	3M以上车床配1只，8M以上配2只 Above 3M with one, above 8M with two
Follower rest ø50-ø220	跟刀架 ø50-ø220	3M以上车床配1只 Above 3M with one
Adjusting bolt of shim plate	垫铁调整螺栓	
Anchor bolt (Including nut and gasket)	地脚螺栓 (含螺母及垫圈)	
Electrical cabinet	电气箱	
Oil gun	油枪	
Double-headed solid wrench	双头呆扳手	
Special accessories:	特殊配置 :	
Steady rest ø380-ø800	中心架 ø380-ø800	
Electric tailstock	电动尾座	
Live center	活顶尖	

机床技术参数 /Specification

型号	MODEL	Turner 1400HM	Turner 1600HM
货号	Item No.	4705100	4707100
机床最大承重	Max.weight of workpiece	8T	8T
床身上最大回转直径	Max.swing over bed	Ø1400mm	Ø1600mm
横拖板上最大回转直径	Max.swing over cross slide	Ø1000mm	Ø1200mm
两尖顶距离	Center distance	1.5m 2m 3m 4m 5m 6m 8m 10m 12m	1.5m 2m 3m 4m 5m 6m 8m 10m 12m
床身宽度	Width of bed	780mm	780mm
床头箱	HEAD STOCK		
主轴孔径	Spindle hole	Ø130mm	Ø130mm
主轴锥孔	Spindle taper	140#	140#
主轴转速范围	Spindle speeds	3.15-315r/min或2.5-250r/mm.转数种数：正21种，反12种	3.15-315r/min或2.5-250r/mm.转数种数：正21种，反12种
进给箱	GEAR BOX-THREADS&FEEDS		
快速进给：纵向/横向	Rapid feed:Long/Cross	3400mm/min,1700mm/min	3400mm/min,1700mm/min
刀架	TOOL-POST		
主轴中心至刀具安装面距离	Distance between Center & Tool	48mm	48mm
刀具截面	Tool section	45×45mm	45×45mm
拖板	CARRIAGE		
中拖板最大行程	Cross slide travel	650mm	650mm
小拖板最大行程	Top slide travel	280mm	280mm
尾座	TAILSTOCK		
尾座套筒直径	Sleeve diameter	Ø160mm	Ø160mm
尾座套筒锥度	Sleeve taper	80# or MT6	80# or MT6
尾座套筒最大行程	Sleeve travel	300mm	300mm
电机	MOTOR		
主电机	Main motor	22KW	22KW
冷却泵电机	Coolant motor	0.15KW	0.15KW
快速进给电机	Rapid feed motor	1.5KW	1.5KW

两尖顶距 . 净重 . 外形尺寸 Turner 1400HM	Center distance.Net weight. Turner 1400HM	1500 mm	11700kg	4600×1900×2400mm
		2000 mm	12500kg	5100×1900×2400mm
		3000 mm	13300kg	6100×1900×2400mm
		4000 mm	14100kg	7100×1900×2400mm
		5000 mm	14900kg	8100×1900×2400mm
		6000 mm	15700kg	9100×1900×2400mm
		8000 mm	17300kg	11100×1900×2400mm
		10000 mm	18900kg	13100×1900×2400mm
		12000 mm	20500kg	15100×1900×2400mm

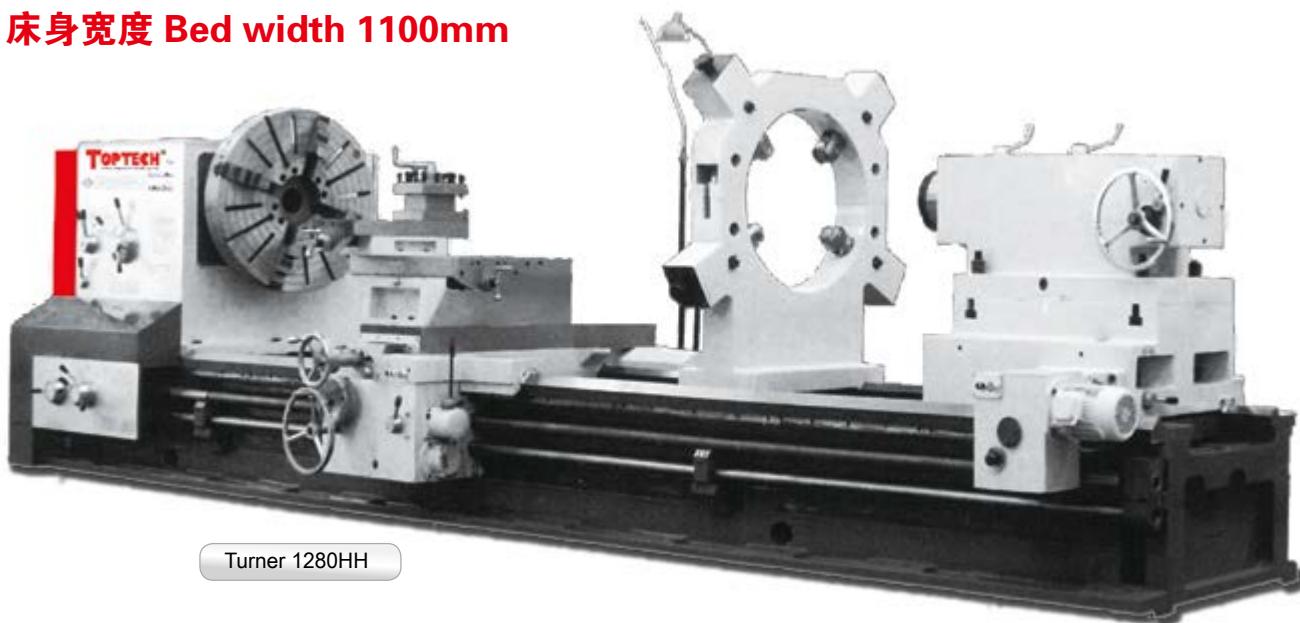
LATHE MACHINE**车 床 TURNER 1600HI/1800HI****床身宽度 Bed width 970mm**

	花盘	中心架	开式中心架
Turner 1600HI	Face plate	Steady rest	Open steady
	ø1400 (standard)	ø200-550 (standard)	ø600-1250 (optional)
	ø1600 (optional)	ø500-850 (optional)	
Turner 1800HI	花盘	中心架	开式中心架
Turner 1800HI	Face plate	Steady rest	Open steady
	ø1600 (standard)	ø500-850 (standard)	ø750-1450 (optional)
	ø1800 (optional)	ø200-550 (optional)	

中心距 (mm) Center distance	占地面积 (mm ²) Floor area
1500	5150×2380
2000	5650×2380
3000	6650×2380
5000	8650×2380
6000	9650×2380
8000	11650×2380
10000	13650×2380
16000	19280×2300

机床技术参数 /Specification

型号	Model	Turner 1600HI	Turner 1800HI
货号	Item No.	4807301	4814301
加工能力	CAPACITY		
工件最大重量	Max. weight of workpiece	10T	10T
床身宽度	Width of bed	970mm	970mm
床身上最大工件回转直径	Swing diameter over bed	Ø1600mm	Ø1800mm
刀架上最大回转直径	Swing diameter over tool rest	Ø1250mm	Ø1450mm
最大工件长度	Max. length of workpiece	3000 /5000 /8000 mm	
最大车削长度	Max. length of turning	2800 /4800 /7800 mm	
床头箱	HEAD STOCK		
插入主轴孔棒料最大直径	Diameter of barstock inserted in spindle hole	Ø97mm	Ø97mm
主轴孔直径	Diameter of spindle hole	Ø160mm	Ø160mm
主轴孔前端锥度	Taper of spindle nose	1:20	1:20
主轴正反转每分钟转速范围	Range of spindle speeds	4-192rpm	4-192rpm
卡盘直径	Chuck diameter	Ø1400	Ø1600
进给箱	GEAR BOX		
主轴每转刀架的进给量范围-纵向	Longitudinal feed range of tool rest	0.057 ~ 12.720mm	0.057 ~ 12.720mm
主轴每转刀架的进给量范围-横向	Cross feed range of tool rest	0.023 ~ 5.296mm	0.023 ~ 5.296mm
公制螺纹的螺矩范围/种数	Pitch of metric threads / kinds	1 ~ 224mm / 46	1 ~ 224mm / 46
英制螺纹的每吋牙数范围/种数	Teeth of inch threads / kinds	28 ~ 1 TPI / 46	28 ~ 1 TPI / 46
模数螺纹的模数范围/种数	Range of module threads / kinds	0.25 ~ 56mm / 37	0.25 ~ 56mm / 37
刀架	TOOL-POST		
主轴中心线至刀具安装基面的垂直距离	Vertical distance from spindle to turret	48mm	48mm
刀杆的横剖面尺寸 (高×宽)	Section of cutter arbor(height*width)	45×45mm	45×45mm
小刀架最大行程	Stroke of compound rest	300mm	300mm
安装车刀数量	Number of lathe tool	4	4
刀架快速移动速度-纵向	Longitudinal rapid moving speed	3.8m/min	3.8m/min
刀架快速移动速度-横向	Cross rapid moving speed	1.9m/min	1.9m/min
尾架	TAILSTOCK		
套筒直径	Diameter of sleeve	Ø200mm	Ø200mm
尾架锥孔的锥度	Taper of tailstock	MT6	MT6
尾架套筒最大行程	Stroke of tailstock sleeve	250mm	250mm
床尾横向行程	Cross stroke of tailstock	±12mm	±12mm
电机	MOTOR		
主电机功率	Power of main motor	22KW	22KW
主电机转速	Speed of main motor	970rpm	970rpm
溜板快速电机功率	Power of rapid motor of apron	1.5KW	1.5KW
溜板快速电机转速	Speed of rapid motor of apron	1400rpm	1400rpm
尾架电机功率	Tailstock electrical power	1.1KW	1.1KW
润滑及冷却电泵功率	Power of lubricating and coolant pump	0.125KW	0.125KW
机床高度	Height of machine	2300mm	2500mm

LATHE MACHINE**车 床 TURNER 1280HH/1480HH/1680HH
/1980HH/2080HH****床身宽度 Bed width 1100mm**

注意：此车床不含马鞍，如果需要，请另外购买！

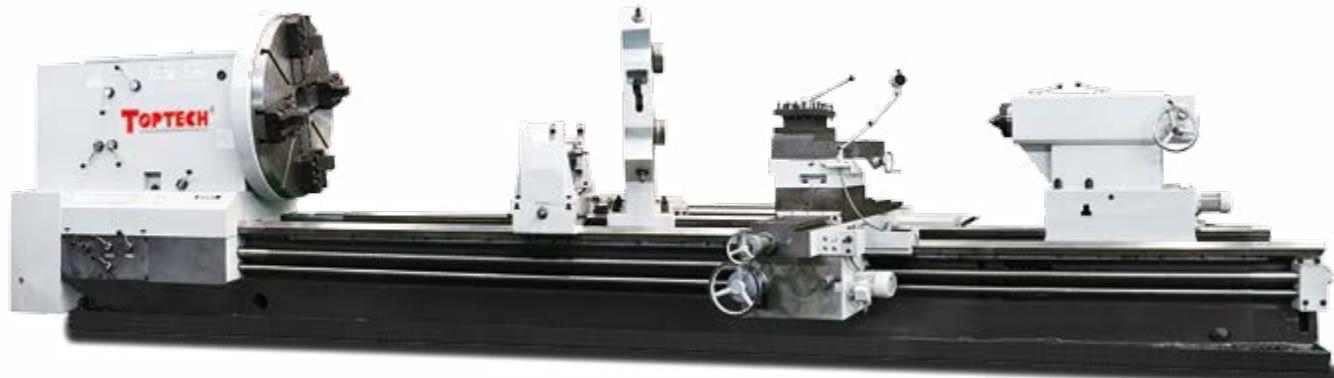
Notice: This lathe does not include saddle, if need, please order it separately!

Standard accessories:	标准配置：	备注 Remark
Heavy-duty four-jaw chuck (Nut, spanner) Ø1000(1280HH) Ø1250(1480HH/1680HH/1980HH/2080H)	重型四爪卡盘(螺钉、扳手) Ø1000(1280HH) Ø1250(1480HH/1680HH/1980HH/2080H)	
Steady rest Ø200-Ø500	中心架 Ø200-Ø500	3M以上配一只, 6M以上再配一只500-800mm的大中心架 Above 3M with one, above 6M with one 500-800mm steady rest
Main spindle centre Morse 6#	主轴顶尖 莫氏6#	
Centre sleeve	顶尖套	
Tailstock centre	尾架顶尖	
Adjusting bolt of shim plate	垫铁 调整螺钉	
Anchor bolt (Including nut and gasket)	地脚螺栓(螺母及垫圈)	
Gear (equipped on the machine)	齿轮 (已装在机床上)	
Socket head wrench fixed by four-jaw chuck	四爪卡盘 固定扳手	
Oil gun	油枪	
Tool post spanner	刀架扳手	
Special accessories:	特殊配置：	
Larger size steady rest (Less than 5000mm)	大中心架 Ø500-Ø800 (6米以下)	
Gig heavy-duty four-jaw chuck Ø1600	大重型四爪卡盘 Ø1600	
Follower rest Ø60-Ø200 (800HH) Ø80-Ø350(1000HH/1200HH/1500HH/1600HH)	跟刀架 Ø60-Ø200 (1280HH) Ø80-Ø350(1480HH/1680HH/1980HH/2080H)	

机床技术参数 /Specification

型号	MODEL	Turner 1280HH	Turner 1480HH	Turner 1680HH	Turner 1980HH	Turner 2080HH
货号	Item No.	4604200	4606200	4608200	4609200	4615200
机床最大承重	Max workpiece weight	12T	12T	12T	12T	12T
床身上最大回转直径	Max swing over bed	Ø1280mm	Ø1480mm	Ø1680mm	Ø1980mm	Ø2080mm
横拖板上最大回转直径	Max swing over cross slide	Ø840mm	Ø1040mm	Ø1240mm	Ø1500mm	Ø1600mm
两尖顶距离	Center distance		2m 3m 4m 5m 6m 8m 10m 12m			
马鞍上最大回转直径	Max swing over gap	Ø1580mm	Ø1780mm	Ø1980mm	Ø2280mm	Ø2380mm
马鞍槽端面到主轴法兰盘端面距离	Valid length of gap	600mm	600mm	600mm	600mm	600mm
床身宽度	Bed width	1100mm	1100mm	1100mm	1100mm	1100mm
床头箱	Headstock					
主轴孔径	Spindle bore	Ø130mm	Ø130mm	Ø130mm	Ø130mm	Ø130mm
主轴锥孔	Spindle taper	140#	140#	140#	140#	140#
主轴转速范围	Spindle speeds		3-315rpm或2-200rpm或2-250rpm			
进给箱	GEAR BOX-THREADS & FEEDS					
快速进给：纵向/横向	Rapid feed:long/cross		3400mm/min,1700mm/min			
刀架	TOOL POST					
主轴中心至刀具安装面距离	Distance between Center&Tool	48mm	48mm	48mm	48mm	48mm
刀具截面	Tool section	45×45mm	45×45mm	45×45mm	45×45mm	45×45mm
拖板	CARRIAGE					
中拖板最大行程	Cross slide travel	860mm	860mm	860mm	860mm	860mm
小拖板最大行程	Top slide travel	280mm	280mm	280mm	280mm	280mm
尾座	TAILSTOCK					
尾座套筒直径	Sleeve diameter	Ø260mm	Ø260mm	Ø260mm	Ø260mm	Ø260mm
尾座套筒锥度	Sleeve taper	80#	80#	80#	80#	80#
尾座套筒最大行程	Sleeve travel	300mm	300mm	300mm	300mm	300mm
电机	MOTOR					
主电机	Main drive motor	30kW	30kW	30kW	30kW	30kW
冷却泵电机	Coolant pump motor	0.15kW	0.15kW	0.15kW	0.15kW	0.15kW
快速进给电机	Rapid feed motor	1.5kW	1.5kW	1.5kW	1.5kW	1.5kW
尾架电机	Tailstock motor	1.5kW	1.5kW	1.5kW	1.5kW	1.5kW

两尖顶距.净重.外形尺寸 Turner 1480HH	Center distance:Net weight. Dimention Turner 1480HH	2000 mm	18000kg	5280×2200×2600mm
		3000 mm	19000kg	6280×2200×2600mm
		4000 mm	20000kg	7280×2200×2600mm
		5000 mm	21000kg	8280×2200×2600mm
		6000 mm	22000kg	9280×2200×2600mm
		8000 mm	24000kg	11280×2200×2600mm
		10000 mm	26000kg	13280×2200×2600mm
		12000 mm	28000kg	15280×2200×2600mm

LATHE MACHINE**车 床 TURNER 1600HH/1800HH/2000HH****床身宽度 Bed width 1100mm**

Turner 1600HH

	花盘	中心架	开式中心架
Turner 1600HH	Face plate	Steady rest	Open steady
Ø1400 (standard)	Ø200-550 (standard)	Ø600-1250 (optional)	Ø600-1250 (optional)
Ø1600 (optional)	Ø500-800 (optional)		
Turner 1800HH	花盘	中心架	开式中心架
	Face plate	Steady rest	Open steady
Ø1600 (standard)	Ø500-800 (standard)	Ø750-1450 (optional)	Ø750-1450 (optional)
Ø1800 (optional)	Ø200-550 (optional)		
Turner 2000HH	花盘	中心架	开式中心架
	Face plate	Steady rest	Open steady
Ø1800 (standard)	Ø500-800 (standard)	Ø880-1650 (optional)	Ø880-1650 (optional)
Ø2000 (optional)	Ø200-550 (optional)		

中心距 (mm) Center distance	占地面积 (mm ²) Floor area
3000	6280×2300
5000	8280×2300
6000	9280×2300
8000	11280×2300
10000	13280×2300
12000	15280×2300
14000	17280×2300
16000	19280×2300

机床技术参数 /Specification

型号	Model	Turner 1600HH	Turner 1800HH	Turner 2000HH
货号	Item No.	4607501	4614501	4610501
加工能力	CAPACITY			
工件最大重量	Max. weight of workpiece	18T	18T	18T
床身宽度	Width of bed	1100mm	1100mm	1100mm
床身上最大工件回转直径	Swing diameter over bed	Ø1600mm	Ø1800mm	Ø2000mm
刀架上最大回转直径	Swing diameter over tool rest	Ø1250mm	Ø1450mm	Ø1650mm
最大工件长度	Max. length of workpiece	5000 / 6000 / 8000 / 10000 / 12000 mm		
最大车削长度	Max. length of turning	4800 / 5800 / 7800 / 9800 / 11800 mm		
床头箱	HEAD STOCK			
插入主轴孔棒料最大直径	Diameter of barstock inserted in spindle hole	Ø97mm	Ø97mm	Ø97mm
主轴孔直径	Diameter of spindle hole	Ø100mm	Ø100mm	Ø100mm
主轴孔前端锥度	Taper of spindle nose	1:20	1:20	1:20
主轴正反转每分钟转速范围	Range of spindle speeds	3-136rpm	3-136rpm	3-136rpm
进给箱	GEAR BOX			
主轴每转刀架的进给量范围-纵向	Longitudinal feed range of tool rest	0.057 ~ 12.726mm	0.057 ~ 12.726mm	0.057 ~ 12.726mm
主轴每转刀架的进给量范围-横向	Cross feed range of tool rest	0.023 ~ 5.296mm	0.023 ~ 5.296mm	0.023 ~ 5.296mm
公制螺纹的螺距范围/种数	Pitch of metric threads / kinds	1 ~ 224mm / 46	1 ~ 224mm / 46	1 ~ 224mm / 46
英制螺纹的每吋牙数范围/种数	Teeth of inch threads / kinds	28 ~ 1 TPI / 46	28 ~ 1 TPI / 46	28 ~ 1 TPI / 46
模数螺纹的模数范围/种数	Range of module threads / kinds	0.25 ~ 56mm / 37	0.25 ~ 56mm / 37	0.25 ~ 56mm / 37
刀架	TOOL-POST			
主轴中心线至刀具安装基面的垂直距离	Vertical distance from spindle to turret	48mm	48mm	48mm
刀杆的横剖面尺寸 (高×宽)	Section of cutter arbor(height*width)	45×45mm	45×45mm	45×45mm
小刀架最大行程	Stroke of compound rest	300mm	300mm	300mm
安装车刀数量	Number of lathe tool	4	4	4
刀架快速移动速度-纵向	Longitudinal rapid moving speed	3.8m/min	3.8m/min	3.8m/min
刀架快速移动速度-横向	Cross rapid moving speed	1.9m/min	1.9m/min	1.9m/min
尾架	TAILSTOCK			
套筒直径	Diameter of sleeve	Ø260mm	Ø260mm	Ø260mm
回转主轴	Turning spindle	Ø120mm	Ø120mm	Ø120mm
尾架锥孔的锥度	Taper of tailstock	公制80	公制80	公制80
尾架套筒最大行程	Stroke of tailstock sleeve	250mm	250mm	250mm
床尾横向行程	Cross stroke of tailstock	±12mm	±12mm	±12mm
电机	MOTOR			
主电机功率	Power of main motor	30kW	30kW	30kW
主电机转速	Speed of main motor	1470rpm	1470rpm	1470rpm
溜板快速电机功率	Power of rapid motor of apron	1.5kW	1.5kW	1.5kW
溜板快速电机转速	Speed of rapid motor of apron	1400rpm	1400rpm	1400rpm
润滑电泵功率	Power of lubricating pump	0.18kW	0.18kW	0.18kW
尾架电机功率	Tailstock electrical power	1.1kW	1.1kW	1.1kW
冷却电泵功率	Power of coolant pump	0.125kW	0.125kW	0.125kW
机床高度	Height of machine	2300mm	2500mm	2700mm

DIGITAL POSITION DISPLAY

数显表 DPA2000

用于机床和驱动器行程和定位精度测量
for precise measuring of the travels and positioning on the machine and drives



DPA2000

- 大量缩减生产加工时间
Considerable reduction of the manufacturing times
- 易操作
Easy-to-operate
- 工作精度高
High working accuracy
- 降低故障率
Error rate is reduced
- 键盘分布清晰
Clearly-arranged keyboard
- 防炫目显示屏
Glare-free display
- 八位带符号的LED显示屏
LED display with eight digits including sign
- 永久性存储器(防断电)
Permanent memory even in case of a power failure
- 键盘保护防水溅
Splash water protected, enclosed keypad
- 高质量铝壳
High quality aluminium housing
- 铣床版和车床版轻松切换分辨率
Switchable for milling machine and lathe with freely selectable resolution
- 数显:X, Y/Z0, Z三轴带八位LED数显(符号是第一个数字)
Display: X, Y/Z0, Z axis with 8-digit LED display each (the sign is the first digit)
- 每把刀三次评估测量输入(带七次修正记忆)
Three evaluable measuring inputs with seven correction memories for tools each
- 接电
Electrical connection 230 V ~50 Hz
- 尺寸
Dimensions L x W x H: 280 x 70 x 190 mm
- 重量
Weight: 2.6 kg

可能的功能 Possible functions

- 计算器 Calculator
- 绝对/增量操作 Absolute/incremental operation
- 联轴(总和Z) Axis coupling (sum Z)
- Sub D插座 Sub D plugs sockets
- 数显值公英制可选 Optionally display of the values in inch or millimetres
- 节距计算(链条尺寸) Pitch circle calculator (chain dimension)
- 节距坐标 Coordinates in the circle (pitch circle)
- 节距孔 Holes in the circle (pitch circle)
- 计数方向选择 Selection of the direction of counting
- 三轴线性误差补偿 Linear error compensation of the axes
- Z和Z0轴数值显示(总和激活) Display of the values for Z and Z0 as sum is enabled
- 数值显示可选半径或直径 Optionally display of the values radius or diameter

交货内容 Scope of delivery

- 墙壁支架 Wall holder
- 操作说明书 Operating instructions
- 230 V连接线 Connection cable 230 V

DPA 2000/DPA 2000 S 测量块

Measuring blocks for DPA 2000/DPA 2000 S

- 随机附路径测量系统(带高精度光栅测量杆) Fully enclosed path measuring systems with highly precise glass measuring rod
- 精度5 μm Accuracy 5 μm
- 通过安装支架联轴器连接和导向的微型滚珠轴承来扫描行程 Scanning carriage with miniature ball bearings guided and connected via a coupling in the mounting stand
- 通过橡胶密封条防尘,防水,防碎屑 Protected against dust, chips and splash water by a rubber sealing lip
- 柔性金属保护管可防护3到4米长的接线(从ML 620开始是4米) Flexible metal protection hose protects a 3 or 4 m long connection cable (from ML 620 on - 4 m)
- 无需装配 Without assembly

ML 80 mm/ML 100 mm/ML 120 mm/ML 170 mm/ML 220 mm/ML 270 mm/ML 320 mm/ML 370 mm/ML 420 mm/ML 470 mm/ML 520 mm/ML 570 mm/ML 620 mm/ML 670 mm/ML 720 mm/ML 770 mm/ML 820 mm/ML 870 mm/ML 920 mm/ML 970 mm/ML 1020 mm/ML 1250 mm/ML 1400 mm/ML 1520 mm/ML 1670 mm/ML 1940 mm/ML 2010 mm/ML 3000 mm

工厂装配 Factory assembly ML

- 根据测量块 Per measuring block



ML 670mm

DIGITAL POSITION DISPLAY

数显表 DPA2000S



DPA2000S



用于机床和驱动器行程和定位精度测量
for precise measuring of the travels and positioning
on the machine and drives

- 铣床版和车床版可切换,光栅测量杆和/或磁栅系统可使用自由选择输入信号(正弦/矩形)
- Switchable for milling machines and lathes, freely selectable input signal (sine/rectangle) to be used e.g. for glass measuring rods and/or magnetic tape systems
- 床子上没有磁测量杆的足够空间但是可以安装磁栅尺
- Magnetic tape to be mounted on machines on which there is not sufficient space for magnetic measuring rods
- 供货内容中包含可探测主轴转速的探头
- Sensors to capture the spindle speed are included in the delivery
- 高工作精度 High working accuracy
- 大量缩减生产加工时间
- Considerable reduction of the manufacturing times
- 降低故障率 Error rate is reduced
- 易操作 Easy-to-operate
- 键盘分布清晰 Clearly-arranged keyboard
- 薄膜键盘,完全保护,防水溅,防眩目
- Splash water protected, closed, glare-free membrane keyboard
- 高质量铝壳 High quality aluminium housing
- 数显:X, Y/Z0, Z三轴带八位LED数显(符号是第一个数字)
- Display: X, Y/Z0, Z axis with 8-digit LED display each (the sign is the first digit)
- 每把刀三次评估测量输入(带七次修正记忆)
- Three evaluable measuring inputs with seven correction memories for tools each
- 接电 Electrical connection 230 V ~50 Hz
- 尺寸 Dimensions L x W x H: 280 x 70 x 185 mm
- 重量 Weight: 2.6 kg

磁栅 Magnetic tape MB 100

- 带钢制保护条 With steel protecting strip

激活读数头 Reading head activated

- 用于速度探头 for magnetic tape

穿孔盘 Perforated disc



可能的功能 Possible functions

- 计算器 Calculator
- 速度显示 Speed display
- 联轴(总和Z) Axis coupling (sum Z)
- Sub D插座 Sub D plugs sockets
- 绝对/增量操作 Absolute/incremental operation
- 公英制螺纹转换 Conversion inch/metric thread
- 节距计算(链条尺寸) Pitch circle calculator (chain dimension)
- 节距坐标 Coordinates in the circle (pitch circle)
- 节距孔 Holes in the circle (pitch circle)
- 测量值可切换半径或直径 Measured values radius/diameter can be switched over
- 调零/数据预设 Zeroing/data pre-setting
- 自诊断 Self-diagnosis
- 参考点 Reference point
- 线性故障纠正 Linear error correction
- 7把刀记忆 7 tool memories

交货内容 Scope of delivery

- 速度探头 Speed sensor
- 墙壁支架 Wall holder
- 操作说明书 Operating instructions
- 230 V连接线 Connection cable 230 V



MB 100



激活读数头 Reading head activated

DIGITAL POSITION DISPLAY

数显表 DPA21/DPA22

多功能三轴数显表 (带速度显示), 高档技术, 持久工业品质

The versatilely usable three-axis digital positioning display with speed display.

High-quality technique and durable industrial quality.



DPA21



DPA22

- DPA 21 LED 显示屏 DPA 21 (LED display)
- DPA 22 LCD 显示屏 DPA 22 (LCD display)
- 用户友好界面的薄膜键盘, 防水, 防眩目
- User friendly membrane key pad, water protected, concluded and glare free
- 铣床版和车床版可切换, 光栅测量杆和/或磁栅系统可使用自由选择输入信号 (正弦/矩形) Switchable for milling machines and lathes, freely selectable input signal (sine/rectangle) to be used e.g. for glass measuring rods and/or magnetic tape systems
- 高工作精度 High working accuracy
- 大量缩减生产加工时间 Considerable reduction of the manufacturing times
- 降低故障率 Error rate is reduced
- X, Y/Z0, Z三轴带八位LED数显
- X, Y/Z0, Z axis with 8-digit display each
- 供货内容中包含可探测主轴转速的探头 Sensors to capture the spindle speed are included in the delivery
- 循环程序图形输入(DPA22)
- Graphic input for cycle programming (DPA22)
- 每把刀三次评估测量输入 (带七次修正记忆)
- Three evaluable measuring inputs with seven correction memories for tools each
- 尺寸 Dimensions L x W x H: 230 x 80 x 260 mm;
- 重量 Weight 2 kg

可能的功能 Possible functions

- 计算器, 速度显示, 联轴(总和 Z), Sub D插座, 绝对/增量操作, 公英制螺纹转换, 节距计算(链条尺寸), 节距坐标, 节距孔, 测量值可切换半径或直径, 调零/数据预设, 自诊断, 参考点, 线性故障纠正, 7把刀记忆
- Calculator, speed display, axis coupling (sum Z), Sub D plug sockets, absolute/incremental operation, conversion inch/metric thread, pitch circle calculator (chain dimension), coordinates in the circle (pitch circle), holes in the circle (pitch circle), measured values radius/ diameter can be switched over, zeroing/data pre-setting, selfdiagnosis, reference point, linear error correction, 7 tool magazine

交货内容 Scope of delivery

- 速度探头 Speed sensor
- 固定装置 Fixture
- 电源适配器24V Power supply 24V

磁栅尺 Magnetic tape

- 床子上没有磁测量杆的足够空间但是可以安装磁栅尺
- Magnetic tape to be mounted on machines on which there is not sufficient space for magnetic measuring rods
- 9级插头 9-pole plug
- 长度 Length 1.100 mm
- 长度 Length 2.000 mm

激活读数头 Reading head activated

- 用于磁栅尺 For the magnetic tape

测量块 Measuring blocks

- 随机附路径测量系统 (带高精度光栅测量杆)
- Fully enclosed path measuring systems with highly precise glass measuring rod
- 精度5 μm Accuracy 5 μm
- 通过安装支架联轴器连接和导向的微型滚珠轴承来扫描行程
- Scanning carriage with miniature ball bearings guided and connected via a coupling in the mounting stand
- 通过橡胶密封条防尘, 防水, 防碎屑
- Protected against dust, chips and splash water by a rubber sealing lip
- 柔性金属保护管可防护3到4米长的接线 (从ML 620开始是4米)
- Flexible metal protection hose protects the 3 meters from ML 620 - connection cable with a length of 4 meters
- 无需装配 Without assembly

ML 80 mm/ML 100 mm/ML 120 mm/ML 170 mm/ML 220 mm/ML 270 mm/ML 320 mm/ML 370 mm/ML 420 mm/ML 470 mm/ML 520 mm/ML 570 mm/ML 620 mm/ML 670 mm/ML 720 mm/ML 770 mm/ML 820 mm/ML 870 mm/ML 920 mm/ML 970 mm/ML 1020 mm/ML 1250 mm/ML 1400 mm/ML 1520 mm/ML 1670 mm/ML 1940 mm/ML 2010 mm/ML 3000 mm

DIGITAL READOUT DISPLAY

数显表 DRO3/DRO4/DRO5

DRO3

- “MEM”键：
 - 功能一：在正常工作状态用于掉电记忆坐标显示值；
 - 功能二：开机时用于进入参数设置状态，在参数设置状态用于确认参数更改。
- The “MEM” key
- Function 1: to show the coordinate values of volatile memory under normal working mode;
- Function 2: to enter the parameter setting mode when starting the DRO and to confirm the modification of parameters under the parameter setting mode.



DRO3

“INCH/mm”键：

- 功能一：在正常工作状态用于切换公/英制显示；
- 功能二：在参数设置状态用于选择参数值。
- The “INCH/mm” key
- Function 1: to switch between INCH/mm under normal working mode;
- Function2: to select parameter values under the parameter setting mode.



DRO4

“SEL”键：

- 功能：用于选择坐标。
- The “SEL” key
- Function: to select coordinate.

“CE”键：

- 功能：在正常工作状态用于对所选择坐标显示值清零。
- 在正常工作状态用于取消掉点记忆状态。
- The “CE” key
- Function: to clear the displayed values of the selected coordinates under normal working mode.
- To cancel the state of volatile memory.



DRO5

DRO4

- 三路位置显示，一路速度显示
- Three-route position display and one-route speed display
- 传感器类型选择 Type selection of sensor
- 计数分辨率设置功能 Function of counting resolution
- 计数方向设定 Selection of the direction of counting
- 线性误差修正 Linear error compensation
- 公/英制转换 Conversion inch/metric
- 液晶显示状态设置 Setting of LCD display status
- 速度工作方式设置 Setting of speed working mode

DRO5

- 铣床(X - Y - Z)和车床(X, Z, Z0)数码三轴数显
- Digital 3-axes position display for milling machines (X - Y - Z) and lathes (X, Z, Z0))
- 牢固的铝壳 Stable aluminium housing
- 测量位置 To measure positions
- 旋转速度指示 Rotation speed indicator
- 3输入 3 inputs
- 四排LCD显示 Four row LCD display
- 前面编程 Front programming
- 供电设备 Power supply unit

Face clamping disc	Item No
Ø 170 mm for lathe TU 2004V	344 0295
Ø 240 mm for lathe TU 2506	344 1352
Ø 250 mm for lathe TU 2404/TU2406	344 0552
Ø 265 mm for lathe TU 2807	344 1452



Flange	Item No
• for assembly of lathe chucks	
Ø 160 mm Camlock No. 4	344 1512
• for four-jaw lathe chuck Ø 160 mm combined	
Ø 200 mm Camlock No. 4	344 1513
• for four-jaw lathe chuck Ø 200 mm combined	
Ø 200 mm Camlock No. 6	344 4012
• for four-jaw lathe chuck Ø 200 mm combined	
Ø 250 mm Camlock No. 6	344 4013
• for four-jaw lathe chuck Ø 250 mm combined	
Ø 315 mm Camlock No. 8	344 4041
• for three-jaw lathe chuck Ø 315 mm	
• for four-jaw lathe chuck Ø 315 mm	
Ø 325 mm Camlock No. 8	344 4042
• for four-jaw lathe chuck Ø 325 mm combined	

Flange for lathe chucks	Item No
• For assembly of the lathe chuck	
Ø 100 mm	344 0312
• Cylindrical for TU 2004V	
Ø 125 mm	344 1312
• Short taper for TU 2506/TU 2807 for 3-jaw chuck	
Ø 125 mm	344 0511
• Cylindrical for TU 2404/TU 2406/ TU 2304 for 3-jaw chuck	
Ø 125 mm	344 0511
• Cylindrical for TU 2404/TU 2406/ TU 2304 for 4-jaw chuck	
Ø 160 mm	344 1413
• Short taper for TU 2807	
Ø 160 mm	344 1414
• TU 2807 for 4-jaw chuck	



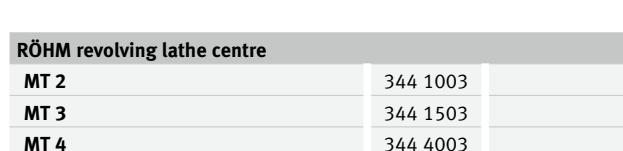
Revolving lathe centre incl. replaceable tips	Item No
• With 7 replaceable lathe centres	
• Body made of hardened and ground tool steel	
• Precision needle roller bearings guarantee high true running accuracy	
MT 2	344 0732
MT 3	344 0733
MT 4	344 0734



Collet chuck	Item No
Including short taper clamping	
ER 16	344 0281
• Cylindrical for TU 1503V	
ER 25	344 1305
• Short taper for TU 2506 /TU 2807	
ER 25	344 0305
• Cylindrical for TU 2004V	
ER 25	344 0505
• Cylindrical for TU 2404/TU 2406/ TU 2304	
ER 32	344 1306
• Short taper for TU 2506 /TU 2807	
ER 32	344 0506
• Cylindrical for TU 2404/TU2406	



Collet chuck	Item No
• True running accuracy 0,02 mm	
5C - D1-4	344 1554
5C - D1-6	344 1556
5C - D1-8	344 1558



NEW

RÖHM revolving lathe centre	Item No
MT 2	344 1003
MT 3	344 1503
MT 4	344 4003

Revolving lathe centre	Max. out-of-round	Speed max.	Radial load max.
MT 1	0.006 mm	5'000 min ⁻¹	320 N
MT 2		5'000 min ⁻¹	400 N
MT 3		4'500 min ⁻¹	800 N
MT 4		3'500 min ⁻¹	1'250 N
MT 5		3'000 min ⁻¹	1'500 N
MT 6		2'500 min ⁻¹	1'800 N



Position limit stop	Item No
with fine adjustment	344 1524
• for lathes D 320 - D360	
with fine adjustment	344 4022
• for lathe D 460	
with fine adjustment	344 4023
• for lathe D 560	



Kit of titanium coated twist drills	305 1010
<ul style="list-style-type: none"> Titanium coating Higher service life and durability Higher hardness than hard metal More rapid working results Low wear 25 pcs; Sizes 1 - 13 mm Metal box 	

Twist drill HSS incl. Morse taper	
<ul style="list-style-type: none"> 9-pieces; sizes 14,5/16/18/20/22/24/26/28/30 mm Long service life Good chip removal Right hand cutting 	



Cutting insert block CB1	344 0680
<ul style="list-style-type: none"> for cutting chisel CH1 Without SWH from lathe D 420 on With SWH from lathe D 320 on Complete clamping block Without cutting chisel 	



Cutting chisel CH1	344 0685
<ul style="list-style-type: none"> up to 75 mm Including cutting inserts 	

Spare cutting inserts for CH1	344 0686
<ul style="list-style-type: none"> 10 pcs 	

Universal coolant equipment	344 0686
<ul style="list-style-type: none"> Delivery height max. 2.5 m Delivery volume 8 l/min Tank capacity 11 l Tank size L x W x H: 370 x 245 x 170 mm Complete including tank, flexible tube, hose With switch-plug combination Magnetic anchoring For self-assembly 	
230 V / 1 Ph	335 2002
400 V / 3 Ph	335 2001



Direct-quick action drill chuck	
<ul style="list-style-type: none"> True running accuracy of better than 0.05 mm 	
0 - 8 mm with direct tool holder MT 2	305 0582
0 - 13 mm with direct tool holder MT 3	305 0585
0 - 13 mm with direct tool holder MT 4	305 0587



Vibration damping machine foot

- Machines and devices can be installed without anchoring and exactly levelled per height adjustment
- Machine capability is improved by efficient impact and vibration damping

SE 1	338 1012
SE 2	338 1016
SE 3	338 1018

Charge	SE 1	SE 2	SE 3
Milling machines	340 Kg	460 kg	1'600 kg
Sawing/ general machines	570 kg	1'460 kg	3'500 kg
Thread	M12	M 16	M 20
Base Ø/Base height	120/32	160/35	185/39



Collet kit SPZ - 5C

344 1509

- For universal collet attachment
- Standard 385 E
- 17-pcs; clamping range 3 - 25 mm



Collet kit

- DIN 6499

ER 16

344 0282

- 12-pcs; clamping range ø 1 - 12 mm

ER 25

344 1109

- 15-pcs; clamping range ø 1 - 16 mm

ER 32

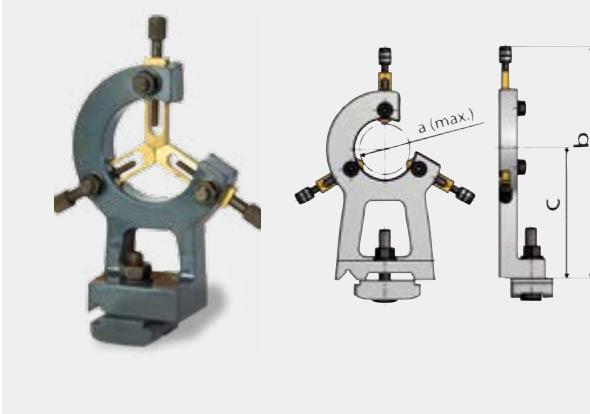
344 1122

- 18-pcs; clamping range ø 3 - 20 mm



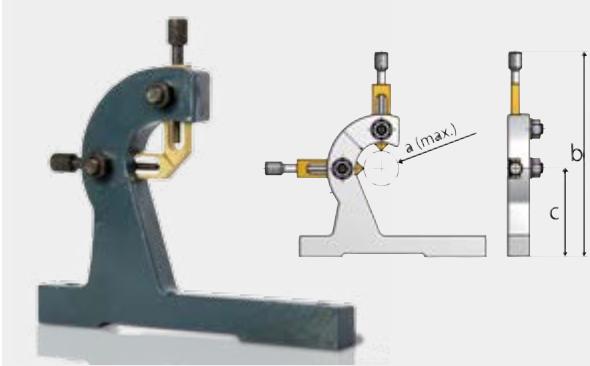
Steady rest

	Item No
for TU 1503V	344 0211
for TU 2004V	344 0231
for TU 2304 / TU 2304V	344 0361
for TU 2506 / TU 2404 / TU 2406	344 1315
• a = Ø 50 mm; b = 245 mm; c = 125 mm	
for TU 2807	344 1415
• a = Ø 55 mm; b = 250 mm; c = 140 mm	



Follow rest

for TU 1503V	344 0210
for TU 2004V	344 0230
for TU 2304 / TU 2304V	344 0360
for TU 2506 / TU 2404 / TU 2406	344 1310
a = Ø 34 mm; b = 220 mm; c = 107 mm	
for TU 2807	344 1410
a = Ø 56 mm; b = 250 mm; c = 130 mm	



Universal collet attachment 5C

for lathes D320 - D360	344 1506
for lathe D420	344 1507
for lathe D460	344 4006



Quick action tool holder

- For current listing of the compatibility refer to „Accessories for lathe“ on page 8798
- Repeat accuracy 0.01 mm · Angle scale on the tool holder head
- 40 different angle settings · Height adjustment by means of a knurled screw
- Tool holder head and tool holder with profile ground toothing
- Clamping of tool holder free of play accurately repeatable

Quick action tool holder kit SWH AA

338 4311

- 1 tool holder head AA
- 3 tool holder 13 x 50 type D for square tools
- 1 tool holder 13 x 50 type H for round tools . For self-assembly

Spare tool holder 12 x 50 type D for square tools

338 4312

Spare tool holder 12 x 50 type H for round tools

338 4320



Tool holder head

Quick action tool holder kit SWH 1 - A

338 4301

- 1 tool holder head A
- 3 tool holder 20 x 90 type D for square tools
- 1 tool holder 20 x 90 type H for round tools . For self-assembly

Spare tool holder 20 x 90 type D for square tools

338 4302

Spare tool holder 20 x 85 type H for round tools

338 4321



Tool holder type D for square tools 3 pieces

Rear view

Tool holder type D for square tools

Quick action tool holder kit SWH 3 - E

338 4303

- 1 tool holder head E
- 3 tool holder 20 x 100 type D for square tools
- 1 tool holder 30 x 100 type H for round tools . For self-assembly

Spare tool holder 20 x 100 type D for square tools

338 4304

Spare tool holder 30 x 100 type H for round tools

338 4322



Tool holder type H for round tools 1 piece

Rear view

Tool holder type H for round tools

Quick action tool holder kit SWH 5 - B

338 4305

- 1 tool holder head B
- 3 tool holder 25 x 120 type D for square tools
- 1 tool holder 30 x 120 type H for round tools . For self-assembly

Spare tool holder 25 x 120 type D for square tools

338 4306

Spare tool holder 32 x 130 type H for round tools

338 4324

Quick action tool holder kit SWH 7 - C

338 4307

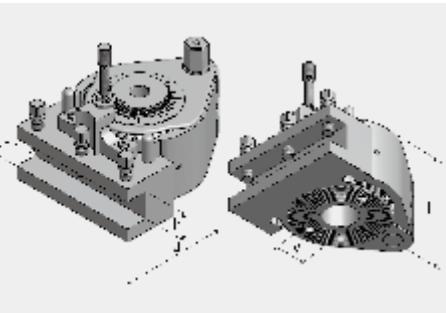
- 1 tool holder head C
- 3 tool holder 32 x 150 type D for square tools
- 1 tool holder 35 x 150 type H for round tools . For self-assembly

Spare tool holder 32 x 150 type D for square tools

338 4308

Spare tool holder 40 x 160 type H for round tools

338 4326



Dimensions

Tool holder head

Quick action tool holder kit SWH 9 - D

338 4309

- 1 tool holder head D
- 3 tool holder 41 x 180 type D for square tools
- 1 tool holder 70 x 180 type H for round tools . For self-assembly

Spare tool holder 40 x 180 type D for square tools

338 4332

Spare tool holder 70 x 180 type H for round tools

338 4333

Workshop assembly and adaptation SWH

900 0400

- Only when purchasing a new machine

Dimensions tool holder head		AA	A	E	B	C	D
Turning diameter		120 - 220 mm	150 - 300 mm	200 - 400 mm	300 - 500 mm	400 - 700 mm	600 - 1000
Motor lathe max.		1 kW	2.2 kW	4.4 kW	6.6 kW	13 kW	20 kW
Support width for tool	d	mm	10	14	20	20/30	28/40
Tool max.	h	mm	12	20	25	32	40
Hole standard	v	mm	10.2	20	32	40	40
Depth of hole max.		mm	12	31	51	70	80
Total width- height	u/t	mm	74/37	106/55	132 / 142 h:68	150 / 155 h:78	202 / 210 h:110
							230/242 h:122

Accessory parts for turning		Item No	D 140	TU 2004V	D 210	TU 2506	TU 2807	TU 2404	D 320/TU 3209	D 360/TU 3610V	D 330	D 420/TU 4210V	D 560/TU 5620V	D 460/TU 4615V	D 420/TU 4210V	TU 8030D
SWH	SWH AA	338 4311		●												D 660
	SWH 1 - A	338 4301			●	●	●	●								
	SWH 3 - E	338 4303							●	●	●					
	SWH 5 - B	338 4305										●	●			
	SWH 7 - C	338 4307											●			
	SWH 9 - D	338 4305													●	●
Lathe tool	Lathe tool HM 8 mm	344 1011	●	●	●	●	●	●	●							
	Lathe tool HM 10 mm	344 1111		●	●	●	●	●	●	●						
	Lathe tool HM 12 mm	344 1211			●	●	●	●	●							
	Lathe tool HM 12 mm	344 1212			●	●	●	●	●							
	Lathe tool HM 16 mm	344 1511								●	●	●				
	Lathe tool HM 16 mm	344 1216								●	●	●				
	Lathe tool HM 16 mm	344 1610								●	●	●				
	Lathe tool HM 20 mm	344 4011										●	●	●		
	Lathe tool HM 20 mm	344 1617										●	●	●		
	Lathe tool HM 25 mm	344 1623											●	●		
	Lathe tool with soldered HM 8 mm	344 1008	●	●	●	●	●	●	●	●						
	Lathe tool with soldered HM 10 mm	344 1108		●	●	●	●	●	●	●						
	Lathe tool with soldered HM 16 mm	344 1508								●	●	●				
Internal turning tools	Internal turning tools kit 10 mm	344 1640		●	●	●	●	●	●							
	Internal turning tools kit 12 mm	344 1641			●	●	●	●	●							

Lathe tool kit 8 mm 344 1008

11-pieces . With soldered HM plates

Lathe tool kit 10 mm 344 1108

11-pieces . With soldered HM plates

Lathe tool kit 16 mm 344 1508

11-pieces . With soldered HM plates



Lathe tool kit HM 8 mm

Lathe tool kit HM 8 mm 344 1011			
<ul style="list-style-type: none"> • 7 pieces • With HM inserts • TiN-coated (1-5) 			
No	ISO		h1
1	SWGCR	L0810	D05
2	SCLCR	L0810	D06
3	SDJCR	L0810	D07
4	SDNCN	L0810	D07
5	SCLCL	L0810	D06
6	LW	0810R	L04
7	QA	0812R	L03

for No	ISO	l	s	r	d	d1	Item No	
1	WCMX050308F	W/80°	5.2	3.35	0.8	6.5	3.15	344 1165
2	CCMT060204	C/80°	6.35	2.6	0.4	6.35	2.7	344 1164
3	DCMT070204	D/55°	7.3	2.53	0.4	6.35	2.7	344 1166
4	DCMT070204	D/55°	7.3	2.53	0.4	6.35	2.7	344 1166
5	CCMT060204	C/80°	6.35	2.6	0.4	6.35	2.7	344 1164
6	Tread cutting	60°	3.0	15.0	3.0	-	344 1162	
7	Cutting off-inserts	-	3.50	12.14	0.5	-	344 1161	

Lathe tool kit HM 10 mm

Lathe tool kit HM 10 mm 344 1111			
<ul style="list-style-type: none"> • 7 pieces • With HM inserts • TiN-coated (8-12) 			
No	ISO		h1
8	SWGCR	L1010	D05
9	SCLCR	L1010	E06
10	SDJCR	L1010	E07
11	SDNCN	L1010	E07
12	SCLCR	L1010	E06
13	LW	1010R	L04
14	QA	1012R	L03

for No	ISO	l	s	r	d	d1	Item No	
8	WCMX050308F	W/80°	5.2	3.35	0.8	6.5	3.15	344 1165
9	CCMT060204	C/80°	6.35	2.6	0.4	6.35	2.7	344 1164
10	DCMT070204	D/55°	7.3	2.53	0.4	6.35	2.7	344 1166
11	DCMT070204	D/55°	7.3	2.53	0.4	6.35	2.7	344 1166
12	CCMT060204	C/80°	6.35	2.6	0.4	6.35	2.7	344 1164
13	Tread cutting	60°	3.0	15.0	3.0	-	344 1162	
14	Cutting off-inserts	-	3.50	12.14	0.5	-	344 1161	

Lathe tool kit HM 12 mm

Lathe tool kit HM 12 mm 344 1211			
<ul style="list-style-type: none"> • 9 pieces • With HM inserts 			
No	ISO		h1
15	PWKNR	L1012	J06
16	PWUNR	L1012	J06
17	PSSNR	L1012	J09
18	PSSNR	L1215	J09
19	PSBNR	L1215	H09
20	PWGNR	L1215	H06
21	LW	1215R	L06
22	QA	1222R	L03
23	LN	1215R	L05

for No	ISO	l	s	r	d	d1	Item No	
15	WAUM06T300FL	W/80°	6.2	3.55	0.10	10.35	4.10	344 1270
16	WAUM06T300FL	W/80°	6.2	3.55	0.10	10.35	4.10	344 1270
17	SAUM09T300FL	S/90°	5.4	3.55	0.10	10.00	4.10	344 1269
18	SAUM09T300F	S/90°	10.0	3.55	0.10	10.00	5.16	344 1267
19	SAUM09T300F	S/90°	10.0	3.55	0.10	10.00	5.16	344 1267
20	WAUM06T300FR	W/80°	6.20	3.55	0.10	10.35	4.10	344 1268
21	Tread cutting	60°	4.70	20.00	5.00	-	344 1263	
22	Cutting off-inserts	-	4.00	14.00	0.50	-	344 1261	
23	Tread cutting	60°	3.0	15.0	3.0	-	344 1162	

Lathe tool kit HM 12 mm



Lathe tool kit HM 12mm 344 1212

- 5 pieces
- With HM inserts
- TiN-coated

Made in
Germany

No		ISO		h1
24	SSSC	R1212	J09	12 mm
25	SCLC	R1212	J09	12 mm
26	SDNC	N1212	J09	12 mm
27	SDJC	R1212	J11	12 mm
28	SDJC	L1212	J11	12 mm

HM- spare inserts

344 1280	344 1282	344 1281

for No	ISO	l	s	r	d	d1	Item No
24	SCMT09T304	S/90°	9.52	4.10	0.40	9.52	4.35
25	CCMT09T304	C/80°	9.70	3.97	0.40	9.53	4.40
26	DCMT11T304	C/55°	11.60	3.97	0.40	9.53	4.40
27	DCMT11T304	C/55°	11.60	3.97	0.40	9.53	4.40
28	DCMT11T304	C/55°	11.60	3.97	0.40	9.53	4.40

Single lathe tool 12 mm

24	SSSC R1212J09	344 1220	
25	SCLC R1212J09	344 1221	
26	SDNC N1212J09	344 1222	
27	SDJC R1212J11	344 1223	
28	SDJC L1212J11	344 1224	



Lathe tool kit HM 16 mm

No		ISO		h1
29	SCLCR	1616	K06	16 mm
30	SSRCR	1616	H09	16 mm
31	SSRCR	1616	H06	16 mm
32	SCGCR	1616	H06	16 mm
33	SCGCL	1616	H06	16 mm
34	LW	1616R	R04	16 mm
35	QA	1622R	L03	22 mm

344 1164/72	344 1571	344 1261	344 1263

No	ISO	l	s	r	d	d1	Item No
29	CCMT060204	C/80°	6.35	2.60	0.40	6.35	2.70
30	SCMT09T304	S/90°	9.52	4.10	0.40	9.52	4.35
31	SCMT09T304	S/90°	9.52	4.10	0.40	9.52	4.35
32	CCMT09T304	C/80°	9.50	4.00	0.40	9.50	4.40
33	CCMT09T304	C/80°	9.50	4.00	0.40	9.50	4.40
34	Tread cutting	60°	4.70	20.00	5.00	-	344 1263
35	Cutting off-inserts	-	4.00	14.00	0.50	-	344 1261

Lathe tool kit HM 16 mm

No		ISO		h1
36	SSSC	R1616	J09	16 mm
37	SCLC	R1616	J09	16 mm
38	SDNC	N1616	J09	16 mm
39	SDJC	R1616	J11	16 mm
40	SDJC	L1616	J11	16 mm

344 1280	344 1282	344 1281

No	ISO	l	s	r	d	d1	Item No
36	SCMT09T304	S/90°	9.52	4.10	0.40	9.52	4.35
37	CCMT09T30	C/80°	9.70	3.97	0.40	9.53	4.40
38	DCMT11T304	C/55°	11.60	3.97	0.40	9.53	4.40
39	DCMT11T304	C/55°	11.60	3.97	0.40	9.53	4.40
40	DCMT11T304	C/55°	11.60	3.97	0.40	9.53	4.40

Single lathe tool 16 mm

36	SSSC R1616J09	344 1230	
37	SCLC R1616J09	344 1231	
38	SDNC N1616J09	344 1232	
39	SDJC R1616J11	344 1233	
40	SDJC L1616J11	344 1234	

Lathe tool kit HM 16 mm

Lathe tool kit HM 16 mm

344 1610

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case


NEW

No		ISO		h1
41	MVJNR	1616	H16	16 mm
42	MVVNN	1616	H16	16 mm
43	PRANN	1616	H10	16 mm
44	PRGNR	1616	H10	16 mm
45	SER	1616	H16	16 mm

HM- spare inserts (each 5 pcs.)



for No	ISO	l	s	r	d	d1	Item No
41	VNMG 160408	V/35°	15	5.1	0.4	9.5	3.8
42	RNMM1003MO	R	10	3.97	-	10	3.6
43	VNMG 160408	V/35°	15	5.1	0.4	9.5	3.8
44	RNMM1003MO	R	10	3.97	-	10	3.6
45	16ER AG60	60° AR	16	3.65	-	9.5	3.95

Lathe tool kit HM 20 mm

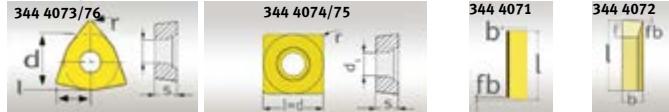
Lathe tool kit HM 20 mm

344 4011

- 7 pieces
- With HM insets



HM- spare inserts (each 5 pcs.)



for No	ISO	l	s	r	d	d1	Item No
46	WNUM060400FL	W/80°	8.60	4.50	0.10	13.35	5.16
47	SAUM120400FL	S/90°	13.10	4.50	0.10	13.10	5.16
48	SAUM120404F	S/90°	13.10	4.50	0.10	13.10	5.16
49	WNUM060400FR	W/80°	8.60	4.50	0.10	13.35	5.19
50	SAUM120404F	S/90°	13.10	4.50	0.10	13.10	5.16
		b	l	fb			
51	Tread cutting	60°	7.50	25.00	0.50	-	344 4072
52	Cutting off-inserts	-	4.00	16.00	1.00	-	344 4071

Lathe tool kit HM 20 mm

Lathe tool kit HM 20 mm

344 1617

- 5 pieces
- With HM insets
- TiN-coated
- Aluminium case


NEW

HM- spare inserts (each 5 pcs.)



No		ISO		h1
53	SER	2020	K16	20 mm
54	PRGNR	2020	K10	20 mm
55	PRANN	2020	K10	20 mm
56	MVVNN	2020	K16	20 mm
57	MVJNR	2020	K16	20 mm

for No	ISO	l	s	r	d	d1	Item No
53	16ER AG60	60° AR	16	3.65	-	9.5	3.95
54	RNMM1003MO	R	10	3.97	-	10	3.6
55	RNMM1003MO	R	10	3.97	-	10	3.6
56	VNMG 160408	V/35°	15	5.1	0.4	9.5	3.8
57	VNMG 160408	V/35°	15	5.1	0.4	9.5	3.8

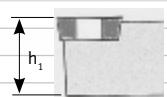
NEW

Lathe tool kit HM 25 mm



Lathe tool kit HM 25 mm 344 1623

- 5 pieces
- With HM inserts
- TIN-coated
- Aluminium case



No	ISO			h1
58	MVVNN	2525	M16	25 mm
59	SER	2525	M16	25 mm
60	PRGNR	2525	M12	25 mm
61	PRANN	2525	M16	25 mm
62	MVJNR	2525	M16	25 mm

HM- spare inserts (each 5 pcs.)



	ISO	l	s	r	d	d1	Item No
58	VNMG 160408	V/35°	15	5.1	0.4	9.5	3.8 344 1701
59	16ER AG60	60° AR	16	3.65	-	9.5	3.95 344 1703
60	RNMG1204MO	R	12	4.75	-	12	5.1 344 1705
61	RNMG1605MO	R	16	5.4	-	16	6.3 344 1704
62	VNMG 160408	V/35°	15	5.1	0.4	9.5	3.8 344 1701

Internal turning tools kit 10 mm 344 1640

- 3 pieces
- With HM inserts
- TIN-coated
- Aluminium case

No	ISO		
63	S10K	SCFCR	06
64	S10K	SDQCR	07
65	S10K	STFCR	11

Internal turning tool

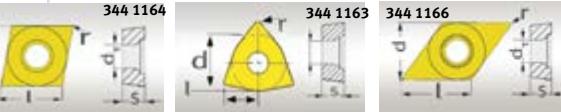


Internal turning tools kit 12 mm 344 1641

- 3 pieces
- With HM inserts
- TIN-coated
- Aluminium case

No	ISO		
63	S12M	SCFCR	06
64	S12M	SDQCR	07
65	S12M	STFCR	11

HM- spare inserts (each 5 pcs.)



for No	ISO	l	s	r	d	d1	Item No
63	CCMT060204	C/80°	6.35	2.60	0.40	6.35	2.70 344 1164
64	TCMT110204	T/60°	10.84	2.53	0.40	9.1	2.70 344 1163
65	DCMT070204	D/55°	7.30	2.53	0.40	6.35	2.70 344 1166



Internal turning tool



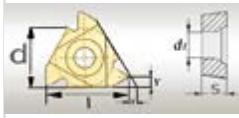
NEW

Internal turning tools kit 344 1650

- 5-pieces (8/10/12/16/20 mm)
- With HM inserts
- TIN-coated
- Aluminium case

No	ISO			d
66	S10K	SIR 0008	H08	8 mm
67	S10K	SIR 0010	K11	10 mm
68	S10K	SIR 0012	M11	12 mm
69	S10K	SIR 0016	P16	16 mm
70	S10K	SIR 0020	S16	20 mm

HM- spare inserts (each 5 pcs.)



	ISO	l	s	d	d1	Max.	Item No
66	08IR A60	60° IR	8	2,22	4,76	2,5	M10 344 1725
67	11IR A60	60° IR	11	3,22	6,35	3,0	M12 344 1726
68	11IR A60	60° IR	11	3,22	6,35	3,0	M12 344 1726
69	16IR A60	60° IR	16	3,65	9,5	3,95	M16 344 1727
70	16IR A60	60° IR	16	3,65	9,5	3,95	M16 344 1727

OPTIMUM Three-jaw lathe chuck centrically clamping
• Lathe chuck made of cast

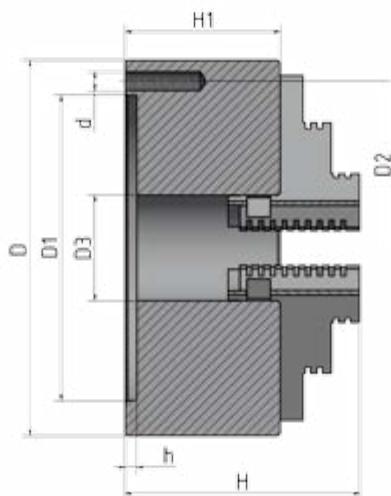
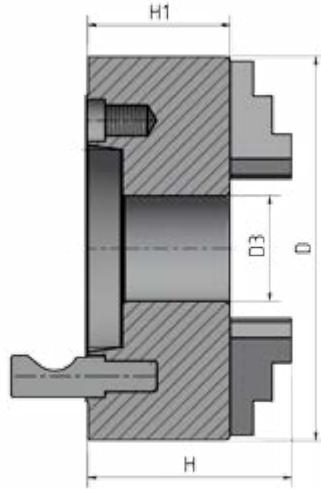
- With cylindrical centre mount according to DIN 6350
- Including chuck key
- True running accuracy of better than 0.05 mm
- Flange for lathe chucks required

ø 80 mm	344 0287
Non-rigid block jaw kit	344 2902
ø 100 mm	344 2710
Non-rigid block jaw kit	344 2904
ø 125 mm	344 2712
Non-rigid block jaw kit	344 2906
ø 160 mm	344 2716
Non-rigid block jaw kit	344 2908

OPTIMUM Three-jaw lathe chuck Camlock centrically clamping
• Lathe chuck made of cast

- Camlock direct tool holder
- Including chuck key
- True running accuracy of better than 0.05 mm

ø 160 mm Camlock DIN ISO 702-2 No. 4	344 2760
Non-rigid block jaw kit	344 2908
ø 200 mm Camlock DIN ISO 702-2 No. 4	344 2762
Non-rigid block jaw kit	344 2910
ø 200 mm Camlock DIN ISO 702-2 No. 6	344 2763
Non-rigid block jaw kit	344 2910
ø 250 mm Camlock DIN ISO 702-2 No. 6	344 2765
Non-rigid block jaw kit	344 2912
ø 315 mm Camlock DIN ISO 702-2 No. 8	344 2768
Non-rigid block jaw kit	344 2916


Lathe chuck with cylindric tool holder

Camlock lathe chuck

Non-rigid block jaw kit

Chuck	Camlock	Item No	D	D1	D2	D3	d	H	H1	h	Speed
Three-jaw chuck centrically clamping											
ø 80 mm	-	344 0287	80	55	66	16	M6	66	50	3.5	4'000
ø 100 mm	-	344 2710	100	72	84	22	M8	74.5	55	3.5	3'500
ø 125 mm	-	344 2712	125	95	108	30	M8	84	58	4	3'000
ø 160 mm	-	344 2716	160	130	142	40	M8	95	65	5	2'150

Chuck	Camlock	Item No	D	D3	H	H1	Speed
Three-jaw chuck Camlock centrically clamping							
ø 160 mm	No. 4	344 2760	160	40	100	70	2'150
ø 200 mm	No. 4	344 2762	200	50	120	86	2'000
ø 200 mm	No. 6	344 2763	200	50	128	86	2'000
ø 250 mm	No. 6	344 2765	250	70	140	98	1'600
ø 315 mm	No. 8	344 2768	315	105	180	103.5	1'200

OPTIMUM Four-jaw lathe chuck individually and centrically clamping

• Lathe chuck made of cast

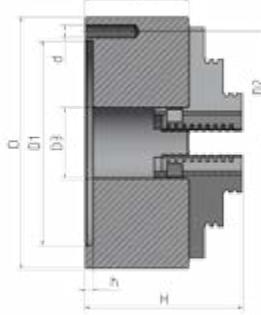
- With cylindrical centre mount according to DIN 6350
- Including chuck key
- True running accuracy of better than 0.05 mm
- Flange for lathe chucks required

centric clamping

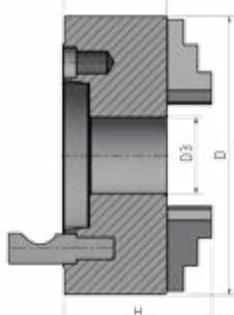
ø 80 mm	344 2808	
Non-rigid block jaw kit 1 piece	344 2920	
ø 100 mm	344 2810	
Non-rigid block jaw kit 1 piece	344 2922	
ø 125 mm	344 2812	
Non-rigid block jaw kit 1 piece	344 2924	
ø 160 mm	344 2816	
Non-rigid block jaw kit 1 piece	344 2926	

Four jaw lathe chuck individually clamping

ø 80 mm	344 0286	
ø 100 mm	344 2872	
ø 125 mm	344 2874	



Lathe chuck with cylindric tool holder



Camlock lathe chuck

OPTIMUM Four-jaw lathe chuck Camlock centrically clamping

• Lathe chuck made of cast

- Camlock direct tool holder
- Including chuck key
- True running accuracy of better than 0.05 mm

ø 160 mm Camlock DIN ISO 702-2 No. 4 344 2840

Non-rigid block jaw kit 1 piece 344 2926

ø 200 mm Camlock DIN ISO 702-2 No. 4 344 2844

Non-rigid block jaw kit 1 piece 344 2928

ø 200 mm Camlock DIN ISO 702-2 No. 6 344 2846

Non-rigid block jaw kit 1 piece 344 2928

ø 250 mm Camlock DIN ISO 702-2 No. 6 344 2850

Non-rigid block jaw kit 1 piece 344 2930

ø 315 mm Camlock DIN ISO 702-2 No. 8 344 2854

Non-rigid block jaw kit 1 piece 344 2932

OPTIMUM Four-jaw lathe chuck Camlock individually clamping

ø 200 mm Camlock DIN ISO 702-2 No. 4 344 2878

ø 250 mm Camlock DIN ISO 702-2 No. 6 344 2884

ø 315 mm Camlock DIN ISO 702-2 No. 8 344 2888

ø 400 mm Camlock DIN ISO 702-2 No. 8 344 2890



Non-rigid block jaw kit

Chuck	Camlock	Item No	D	D1	D2	D3	d	H	H1	h	Speed
Four-jaw chuck centrically clamping											
ø 80 mm	-	344 2808	80	55	66	16	M6	66	50	3.5	4'300
ø 100 mm	-	344 2810	100	72	84	22	M8	74.5	55	3.5	3'400
ø 125 mm	-	344 2812	125	95	108	30	M8	84	58	4	2'750
ø 160 mm	-	344 2816	160	130	142	40	M8	95	65	5	2'150
Four-jaw chuck individually clamping											
ø 80 mm	-	344 0286	80	55	66	22	M6	56	42	3.5	
ø 100 mm	-	344 2872	100	72	84	25	M8	73	54	3.5	
ø 125 mm	-	344 2874	125	95	108	30	M8	78	58	4.5	

Chuck	Camlock	Item No	D	D3	H	H1	Speed
Four-jaw chuck Camlock centrically clamping							
ø 160 mm	No. 4	344 2840	160	40	95	70	2'150
ø 200 mm	No. 4	344 2844	200	55	109	86	1'700
ø 200 mm	No. 6	344 2846	200	65	109	86	1'700
ø 250 mm	No. 6	344 2850	250	70	120	95	1'375
ø 315 mm	No. 8	344 2854	315	100	142.5	106	1'200
Four-jaw chuck Camlock individually clamping							
ø 200 mm	No. 4	344 2878	200	50	110	75	
ø 250 mm	No. 6	344 2884	250	65	117.5	82	
ø 315 mm	No. 8	344 2888	315	95	134	90	
ø 400 mm	No. 8	344 2890	400	125	143	95	

High precision three-jaw lathe chuck

OPTIMUM Three-jaw lathe chuck centrically clamping

- Lathe chuck made of cast**

- With cylindrical centre mount according to DIN 6350
- Including chuck key
- Highest true running accuracy same/better than DIN 6386
- Flange for lathe chucks required

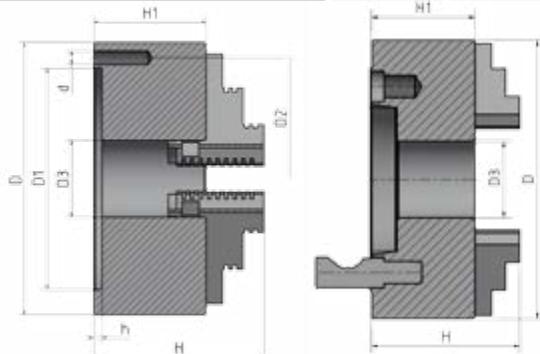
CI3P ø 125 mm	344 2020	
Non-rigid top jaw	344 2522	
Non-rigid block jaw kit 1 piece	344 2521	
CI3P ø 160 mm	344 2025	
Non-rigid block jaw kit 1 piece	344 2541	

OPTIMUM Three-jaw lathe chuck centrically clamping

- Lathe chuck made of steel**

- With cylindrical centre mount according to DIN 6350
- Including chuck key
- Highest true running accuracy
- Flange for lathe chucks required

CS3C ø 125 mm	344 2520	
Non-rigid top jaw	344 2522	
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2521	



Lathe chuck with cylindric tool holder

Camlock lathe chuck

Chuck	Camlock	Item No	D	D1	D2	D3	d	H	H1	h	Speed
Three-jaw chuck centrically clamping											
CI3P ø 125 mm	-	344 2020	125	95	108	32	3 x M8	76	56	4	3'200
CI3P ø 160 mm	-	344 2025	160	125	140	42	6 x M10	96.5	64.5	4	3'000
CS3C ø 125 mm	-	344 2520	125	95	108	32	3 x M8	76	56	4	4'800

Chuck	Camlock	Item No	D	D3	H	H1	Speed
Three-jaw chuck Camlock centrically clamping							
CI3P ø 160 mm	No. 4	344 2040	160	42	125	81.5	3'000
CI3P ø 200 mm	No. 4	344 2045	200	55	138	91	2'500
CI3P ø 200 mm	No. 6	344 2050	200	55	138	91	2'500
CI3P ø 250 mm	No. 6	344 2055	250	76	157.5	103.5	2'000
CI3P ø 315 mm	No. 8	344 2065	315	105	181	117.7	1'500
CS3C ø 160 mm	No. 4	344 2540	160	42	111.5	68	4'500
CS3C ø 200 mm	No. 4	344 2545	200	55	125	78	4'000
CS3C ø 200 mm	No. 6	344 2550	200	55	125	78	4'000
CS3C ø 250 mm	No. 6	344 2555	250	76	143	89	3'500
CS3C ø 250 mm	No. 8	344 2560	250	76	143	89	3'500
CS3C ø 315 mm	No. 8	344 2565	315	103	159.5	96.2	2'800
CS3C ø 400 mm	No. 8	344 2575	400	136	181	108	2'000



Non-rigid block jaw kit

High precision CAMLOCK three-jaw lathe chuck

OPTIMUM Three-jaw lathe chuck Camlock centrically clamping

- Lathe chuck made of cast**

- Camlock direct tool holder DIN 55029

- Including chuck key

CI3P ø 160 mm Camlock DIN ISO 702-2 No. 4	344 2040
Non-rigid block jaw kit 1 piece	344 2541
CI3P ø 200 mm Camlock DIN ISO 702-2 No. 4	344 2045
Non-rigid block jaw kit 1 piece	344 2551
CI3P ø 200 mm Camlock DIN ISO 702-2 No. 6	344 2050
Non-rigid block jaw kit 1 piece	344 2551
CI3P ø 250 mm Camlock DIN ISO 702-2 No. 6	344 2055
Non-rigid block jaw kit 1 piece	344 2561
CI3P ø 315 mm Camlock DIN ISO 702-2 No. 8	344 2065
Non-rigid block jaw kit 1 piece	344 2566

CI3P ø 160 mm Camlock DIN ISO 702-2 No. 4	344 2040
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2542
CS3C ø 200 mm Camlock DIN ISO 702-2 No. 4	344 2545
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2552
CS3C ø 200 mm Camlock DIN ISO 702-2 No. 6	344 2550
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2552
CS3C ø 250 mm Camlock DIN ISO 702-2 No. 6	344 2555
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2562
CS3C ø 315 mm Camlock DIN ISO 702-2 No. 8	344 2565
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2567
CS3C ø 400 mm Camlock DIN ISO 702-2 No. 8	344 2575
Non-rigid top jaw	344 2577
Non-rigid block jaw kit 1 piece (mounting jaw)	344 2576

High precision four-jaw lathe chuck

OPTIMUM Four-jaw lathe chuck centrically clamping

- Lathe chuck made of cast

- With cylindrical centre mount according to DIN 6350
- Including chuck key
- Highest true running accuracy same/better than DIN 6386
- Flange for lathe chucks required

CI4P ø 125 mm

344 2120

Non-rigid top jaw

344 2622

Non-rigid block jaw kit 1 piece

344 2621

CI4P ø 160 mm

344 2125

Non-rigid block jaw kit 1 piece

344 2641

OPTIMUM Four-jaw lathe chuck centrically clamping

- Lathe chuck made of steel

- With cylindrical centre mount according to DIN 6350
- Including chuck key
- Highest true running accuracy
- Flange for lathe chucks required

CS4C ø 125 mm

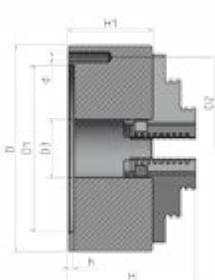
344 2620

Non-rigid top jaw

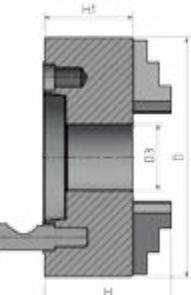
344 2622

Non-rigid block jaw kit 1 piece

344 2621



Lathe chuck with cylindric tool holder



Camlock lathe chuck

High precision CAMLOCK four-jaw lathe chuck

OPTIMUM Four-jaw lathe chuck Camlock centrically clamping

- Lathe chuck made of cast

- Camlock direct tool holder
- Including chuck key

CI4P ø 160 mm Camlock DIN ISO 702-2 No. 4

344 2140

Non-rigid block jaw kit 1 piece

344 2641

CI4P ø 200 mm Camlock DIN ISO 702-2 No. 4

344 2145

Non-rigid block jaw kit 1 piece

344 2651

CI4P ø 200 mm Camlock DIN ISO 702-2 No. 6

344 2150

Non-rigid block jaw kit 1 piece

344 2651

CI4P ø 250 mm Camlock DIN ISO 702-2 No. 6

344 2155

Non-rigid block jaw kit 1 piece

344 2661

CI4P ø 315 mm Camlock DIN ISO 702-2 No. 8

344 2165

Non-rigid block jaw kit 1 piece

344 2666

OPTIMUM Four-jaw lathe chuck Camlock centrically clamping

- Lathe chuck made of steel

- Camlock direct tool holder
- Including chuck key
- Highest true running accuracy

CS4C ø 160 mm Camlock DIN ISO 702-2 No. 4

344 2640

Non-rigid block jaw kit 1 piece (mounting jaw)

344 2642

CS4C ø 200 mm Camlock DIN ISO 702-2 No. 4

344 2645

Non-rigid block jaw kit 1 piece (mounting jaw)

344 2652

CS4C ø 200 mm Camlock DIN ISO 702-2 No. 6

344 2650

Non-rigid block jaw kit 1 piece (mounting jaw)

344 2652

CS4C ø 250 mm Camlock DIN ISO 702-2 No. 6

344 2655

Non-rigid block jaw kit 1 piece (mounting jaw)

344 2662

CS4C ø 250 mm Camlock DIN ISO 702-2 No. 8

344 2660

Non-rigid block jaw kit 1 piece (mounting jaw)

344 2662

CS4C ø 315 mm Camlock DIN ISO 702-2 No. 8

344 2665

Chuck	Camlock	Item No	D	D1	D2	D3	d	H	H1	h	Speed
Four-jaw chuck centrically clamping											
CI4P ø 125 mm	-	344 2120	125	95	108	32	3 x M8	76	56	4	3'200
CI4P ø 160 mm	-	344 2125	160	125	140	42	6 x M10	64.5	64.5	4	3'000
CS4C ø 125 mm	-	344 2620	125	95	108	32	3 x M8	56	56	4	4'800

Chuck	Camlock	Item No	D	D3	H	H1	Speed
Four-jaw chuck Camlock centrically clamping							
CI4P ø 160 mm	No. 4	344 2140	160	42	125	81.5	3'000
CI4P ø 200 mm	No. 4	344 2145	200	55	138	91	2'500
CI4P ø 200 mm	No. 6	344 2150	200	55	138	91	2'500
CI4P ø 250 mm	No. 6	344 2155	250	76	157.5	103.5	2'000
CI4P ø 315 mm	No. 8	344 2165	315	105	181	117.7	1'500
CS4C ø 160 mm	No. 4	344 2640	160	42	111.5	68	4'500
CS4C ø 200 mm	No. 4	344 2645	200	55	125	78	4'000
CS4C ø 200 mm	No. 6	344 2650	200	55	125	78	4'000
CS4C ø 250 mm	No. 6	344 2655	250	76	143	89	3'500
CS4C ø 250 mm	No. 8	344 2660	250	76	143	89	3'500
CS4C ø 315 mm	No. 8	344 2665	315	103	159.5	96.2	2'800
CS4C ø 400 mm	No. 8	344 2675	400	136	181	108	2'000



Non-rigid block jaw kit

Metal Band and Circular Saw

METAL BAND AND CIRCULAR SAW

S 92G/S 122G E2



SP 13V/SQ-V12 E3



S 100G E4



S 150G V E5



S 131GH E6



SG5018/SG5018GW E7



S 181G E8



S275N/S275NV E9



S210G E10



S 285DG E12



S300DG/S300DG V E13



S 310DG V E14



S 350DG E16



SD 350AV E18



CS275/CS315/CS350 E20



CS 315SA /CS 350SA E22



GB 4225-GB42100 E24



MSR 4/MSR 7/MSR 10 E26



METAL BAND SAW

金属切断锯 S92G/S122G

优质、高效、高性价比

- 锯条使用 3 滚珠轴承做导向
- 3 级转速档位可带来更广泛的物料选择
- 切割结束自动停止
- 机身可回转 45 度，能在此角度内进行任意切割
- 角度调节刻度尺清晰可读
- 通过弹簧可调节横向进给
- 锯条张紧通过手轮可调
- 带工件切割长度定位
- 锯条护罩带保护开关
- 安全开关带低压保护和急停开关功能
- 底座带防滑床脚
- 带锯条起重锁定功能
- S122G 带系列快速夹紧钳
- S122G 包含实用的底托架

Convincing arguments: quality, efficiency and price

- Triple ball bearing guiding of the saw band
- Three speed stages for a broad choice of materials
- Automatic limit switching when finishing the sawing process
- Sawing arc slewable from 0° to 45° thus allowing angular saw cuts
- Scale good read for angle adjustment
- Infeed adjustable by means of a spring
- Saw band tension at the front
- adjustable via handwheel
- Material limit stop
- Protective switch for the belt cover
- Safety switch with undervoltage release and emergency stop
- Base plate equipped with antiskid feet
- Transport lock
- S 122 G with serial quick action vice
- S 122 G including practical underframe



机床技术参数 /Specification

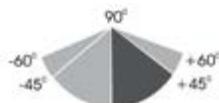
型号	Type	S 92G	S 122G
产品编码	Code No.	5109280	5112280
电器总容量	Electrical connection		
电机功率	Motor power ~50 Hz	400 W 230 V / 1 Ph	550 W 230 V / 1 Ph
	General		
锯条速度	Saw band speed	20/29/50 m/min	21/31/54 m/min
锯条尺寸	Saw band dimensions	1'300 x 12.5 x 0.63 mm	1'640 x 13 x 0.63 mm
机床尺寸	Dimensions		
长	Length	730 mm	950 mm
宽 (不带/带)限停开关	Width without / with material limit stop	270 / 430 mm	550 / 620 mm
高	Height		
锯条下停位置	lower stop position saw bow	450 mm	1'060 mm
锯条上停位置	upper stop position saw bow	650 mm	1'430 mm
净重	Net weight	34 kg	69 kg
包装尺寸	Packing size	760x330x470mm	1080x520x470mm

可选附件 :

- 锯床支架
- 冷却装置
- 工作灯 JC34A
- 锯条 1300x13x0.65mm
10-14TPI(S92G)
1640x13x0.65mm
10-14TPI(S122G)

Optional Accessories:

- Bandsaw stand
- Coolant system
- Machine lamp
- Saw blade 1300x13x0.65mm
10-14TPI(S92G)
1640x13x0.65mm
10-14TPI(S122G)



Cutting range S 92 G

0°		Ø 90 mm		90 x 130 mm
45°		Ø 65 mm		65 x 50 mm

Cutting range S 122 G

0°		Ø 115 mm		100 x 150 mm
45°		Ø 100 mm		85 x 65 mm

Saw band HSS bi-metal M 42 for S 92 G

Number of teeth	Tooth angle
10 - 14 tpi	0°
6 - 10 tpi	0°
6 tpi	10°

Saw bands HSS bi-metal M 42 for S 122 G

METAL BAND SAW

金属切断锯 SP 13V / SQ-V12

NEW

优质、高效、高性价比

- 使用 2 只滚珠轴承控制锯条导向，性能良好；
- 机身可回转 60 度，可进行各种角度切割；
- 配有标准的高质量双金属锯条；
- 切割结束自动停止；
- 底板配有防滑脚垫
- 特殊齿轮 配有两个大齿轮 经淬火钢制造 带来低振动、低磨损；
- DC 电机低速以及碳刷达到 10 倍以上的耐用性

Convincing arguments: quality, efficiency and price

- Ball bearing mounted 2 point saw band guiding providing outstanding
- Sawing arc slewable from 0° to 60° thus allowing angular saw cuts
- With high-grade bimetallic saw band supplied as standard
- Adjustable material stop for series productions
- Base plate equipped with anti-skid feet
- Low vibration and low wear due to special gearbox with two large toothed wheels made of hardened steel
- DC drive motor with low speed and carbon brushes for an up to 10 times higher durability

**机床技术参数 /Specification**

型号	Type	SP 13V	SQ-V12
产品编号	Item No	5101300	5101200
机床参数	Machine data		
电源	Electrical connection	230 V / 1 Ph ~50 Hz	230 V ~50 Hz
电机功率	Motor power	800 W	550 W
	General information		
锯条速度	Saw band speed	30 - 80 m/min	38 - 80 m/min
锯条尺寸	Saw band dimension	1'440 x 13 x 0.65 mm	1'440 x 13 x 0.65 mm
切割角度	Cutting angle	0° - 60°	0° - 60°
尺寸	Dimensions		
长	Length	720 mm	720 mm
宽 (不带/带定位装置行程)	Width without / with materials top	300 / 650 mm	380 / 650 mm
高 (最低/最高)	Height bottom / upper stop position of saw bow	420 / 680 mm	450 / 680 mm
净重	Net weight	19.5 kg	21 kg

METAL BAND SAW

金属切断锯 SIOOG

优质、高效、高性价比

- 快速夹紧钳，用于工件快速夹紧
- 微动开关，用于机身自动限位
- 采用三级可调锯弓压力自动控制锯弓
- 随机配备高质量的双金属锯条
- 锯条起重时锯弓可固定
- 符合人体学的大号把手和较轻的重量便于运到施工现场
- 提供锯条倾斜可调节节能节省空间
- 工件切割长度定位可用于批量生产

Convincing arguments: quality, efficiency and price

- Quick-action vice for rapid workpiece clamping
- Micro switch for automatic limit stop
- Automatic lowering of the saw bow by means of 3-stage adjustable saw bow lowering pressure
- With high-grade bimetallic saw band supplied as standard
- Saw bow can be fixed during transportation
- Large, ergonomic handle and little weight allowing easy transportation to the construction site
- Space-saving due to mitre adjustment by means of the saw arc
- Adjustable material stop for series productions

轻型金属加工带锯，可回转一定角度切割，完美应用于施工现场

Light-weighted band saws for metal machining with steerable saw arc for mitre cuts, perfect to be used on construction sites.

细节展示 Details



自动限位

- 切割结束自动停止

Automatic limit stop

- Switching off the saw band drive at the bottom limit of travel



锯条导向

- 滚珠轴承；带来出色的锯条运行及切割

Saw band guiding

- Ball bearing; for outstanding belt run and thus optimum cut



安全开关

- 易操作
- 按照IP54，带低压保护和急停开关按钮

Safety switch

- Easy-to-operate
- according to IP 54 with under-voltage release, emergency-stop push button

S100G

Machine pedestal

- Stable
- Space saving
- Collapsible
- Easy-to-transport
- Dimensions L x W x H: 500 x 470 x 780 mm



机床技术参数 /Specification

型号	Type	S 100G
货号	Item No	5110080
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	370 W 230 V / 1 Ph
	General	
锯条速度	Saw band speed	45 m/min
锯条尺寸	Saw band dimensions	1'470 x 13 x 0.65 mm
机床尺寸	Dimensions	
长(钳口张开/钳口关闭)	Length vice open/closed	950 / 850 mm
宽(不带/带)限停开关	Width without / with material limit stop	300 / 660 mm
高(最低/最高)	Height bottom / upper stop position of saw bow	680 / 820 mm
净重/毛重	NW./GW.	23/28 kg
包装尺寸	Packing size	720x380x460mm



Cutting range

0°		Ø 100 mm		100 x 150 mm
45°		Ø 65 mm		100 x 60 mm

Saw bands HSS bi-metal M 42

Number of teeth	Tooth angle
10 - 14 tpi	0°
6 tpi	10°

Saw band kit

- 1 x Saw band HSS bi-metal 10 - 14 TPI; 0°
- 2 x Saw band HSS bi-metal 6 TPI; 10°

METAL BAND SAW

金属切断锯 S 150G V

优质、高效、高性价比

- 操作时噪音低
- 快速夹紧钳，用于工件快速夹紧
- 随机配备高质量的双金属锯条
- 底座和锯弓为灰口铸铁制造
- 通过可回转整个锯弓能在 60 度内任意切割
- 角度调节刻度尺清晰可读
- 机床运行时低噪音、低振动
- 滚珠轴承控制锯条导向



锯条导向

- 滚珠轴承；
- 带来出色的锯条运行及切割
- Saw band guiding**
- Ball bearing
- Outstanding band run and thus optimum cut

- 带工件切割长度定位
- Material limit stop

机身底部构造

- 结实耐用
- 标准设备

Machine substructure

- Robust
- Standard equipment

机床技术参数 /Specification

型号	Type	S 150G V
货号	Item No	5115180
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	1.1 kW 230 V / 1 Ph
冷却泵功率	Motor coolant pump	50 W
	General	
锯条速度	Saw band speed	20 - 65 m/min
锯条尺寸	Saw band dimensions	1'735 X 12.7 X 0.9 mm
尺寸	Dimensions	
长 (钳口张开/钳口关闭)	Length (vice open closed)	1'120 / 930 mm
宽(不带/带)限停开关	Width (without / with material limit stop)	510 / 720 mm
高(最低/最高)	Height (bottom / upper stop position of saw bow)	1'240 / 1'590 mm
净重/毛重	NW./GW.	100/112kg
包装尺寸	Packing size	1130X570X750mm



S150G V

Cutting range

0°		Ø 150 mm		150 x 160 mm
45°		Ø 125 mm		115 x 125 mm
60°		Ø 70 mm		70 x 90 mm



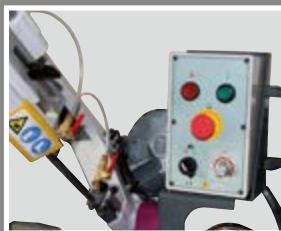
Saw bands HSS bi-metal M 42

Number of teeth	Tooth angle
6 tpi	10°
6 - 10 tpi	0°
10 - 14 tpi	0°

Saw band kit

- Saw band HSS bi-metal 6 TPI
- Saw band HSS bi-metal 6 - 10 TPI
- Saw band HSS bi-metal 10 - 14 TPI

细节展示 Details



控制面板

- 大尺寸
- 急停开关按钮
- 冷却水泵开关
- 电位计
- 电气设备符合CE标准
- EMC过滤器

Control panel

- Largely dimensioned
- Emergency-stop push button
- Switch for coolant pump
- Potentiometer
- CE conformity of the electrical equipment
- EMC filter



无级变速驱动

- 持续调节锯条转速
- Vario drive**
- continuously adjustable saw band speeds



冷却水泵

- 标准设备
- Coolant pump**
- Standard equipment

METAL BAND SAW

金属切断锯 S 131GH

优质、高效、高性价比

- 操作时噪音低
- 采用3个滚珠轴承作为锯条的支撑导向
- 三种可切换的锯条转速 22/31/55 m/min
- 快速夹紧钳，用于工件快速夹紧
- 随机配备高质量

- 的双金属锯条
- 底座和锯弓为灰口铸铁制造
- 带工件切割长度定位
- 带急停开关按钮和电机保护开关（符合CE电气设备标准）
- 角度调节刻度尺清晰可读

Convincing arguments: quality, efficiency and price

- Silent operation
- Ball-bearing 3-point saw band guidance
- Three switchable saw band speeds 22/31/55 m/min.
- Quick holding of the workpiece by a quick-action vice
- With high-grade bimetallic saw band supplied as standard
- Base plate and saw bow made of grey cast iron
- Material limit stop
- Emergency-Stop push button, motor protection switch (CE conformity of the electrical equipment)
- Scale good read for angle adjustment



机床技术参数 /Specification

型号	Type	S 131 GH
货号	Item No	5113180
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	1.1KW 230 V / 1 Ph
锯条升降	Lifting the saw bow	Manual
进给	Feed	continuously adjustable
锯条速度	Saw band speed	22 / 31 / 55 m/min
锯条尺寸	Saw band dimensions	1'638 x 13 x 0.65 mm
净重/毛重	NW./GW.	78/80kg
包装尺寸	Packing size	1040x460x560mm

Dimensions				
1390.00				
	1680.00			
		965.00		
914.00				
115.00				
	370.00			
115.00				
115.00				
115.00				
965.00				
90°	-60°		+45°	
Saw bands HSS bi-metal M 42				
Number of teeth	Tooth angle			
6 - 10 tpi	0°			
10 - 14 tpi	0°			
6 tpi	10°			
Saw band kit				
• 1 x Saw band HSS bi-metal 10 - 14 TPI; 0°				
• 1 x Saw band HSS bi-metal 6 TPI; 10°				
• 1 x Saw band HSS bi-metal 6 - 10 TPI; 6°				
Cutting range				
0°		Ø 128 mm		100 x 150 mm
45°		Ø 94 mm		94 x 68 mm
60°		Ø 56 mm		56 x 56 mm

METAL BAND SAW

金属切断锯 SG5018/SG5018GW

优质、高效、高性价比

- 保护用户安全的IP54开关，带低压保护
- 结实耐用的铸件制造
- 操作时噪音低
- 随机配备高质量的双金属锯条
- 带工件切割长度定位
- 采用液压泵和无级变速节流阀控制锯床的切割进给速度
- 切割结束可自动停机

Convincing arguments: quality, efficiency and price

- User-friendly safety switch for IP 54 with low-voltage release
- Solid casting type
- Silent operation
- With high-grade bimetallic saw band supplied as standard
- Material limit stop
- Lowering of the saw bow by means of the hydraulic support cylinder with infinitely variable throttle valve
- Automatic switch-off of the saw after termination of cutting

标准附件：

- 锯床支架
- 冷却装置

Standard Accessories:

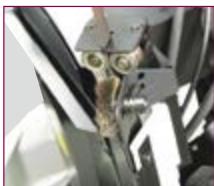
- Bandsaw stand
- Coolant system

可选附件：

- 工作灯 JC34A
- 锯条 2360x19x0.9mm 4-6TPI

Optional Accessories:

- Machine lamp
- Saw blade 2360x19x0.9 mm 4-6TPI



锯条导向

- 滚珠轴承3个方向锯条导向，精确耐用，容易调节
- 锯屑刷

Saw band guiding

- Ball bearing 3-point saw band guiding, durable and easy to adjust
- Chip brush

机身底部构造

- 结实耐用
- 大滚轮方便锯床位置移动

Machine substructure

- Robust
- Large wheels and handy transport strap allow trouble-free position change



SG 5018GW

细节展示 Details



- 可旋转型工作台
- Swivel working table

机床技术参数 /Specification

型号	Model	SG5018/SG5018GW
货号	Code No.	5151800/5151900
电机功率	Motor	1.1KW,380V
锯削速度	Blade speed	34,41,59,98m/min Round Ø175mm Square 165x305mm
最大切削能力	Max.cutting capacity	
锯条尺寸	Blade size - Length	2360mm
锯条尺寸	Blade size - Teeth	4-6TPI
锯条尺寸	Blade size - Thickness	0.9mm
锯条尺寸	Blade size - Width	19mm
钳口旋转范围	Range of vice tilting	0-45°
净重 / 毛重	NW/GW	158/185kg
包装尺寸	Packing size	1250x440x1080mm



SG 5018

METAL BAND SAW

金属切断锯 S 181G

优质、高效、高性价比

- 保护用户安全的IP54开关，带低压保护
- 结实耐用的铸件制造
- 操作时噪音低
- 随机配备高质量的双金属锯条
- 带工件切割长度定位
- 采用液压泵和无级变速节流阀控制锯床的切割进给速度
- 切割结束可自动停机

Convincing arguments: quality, efficiency and price

- User-friendly safety switch for IP 54 with low-voltage release
- Solid casting type
- Silent operation
- With high-grade bimetallic saw band supplied as standard
- Material limit stop
- Lowering of the saw bow by means of the hydraulic support cylinder with infinitely variable throttle valve
- Automatic switch-off of the saw after termination of cutting

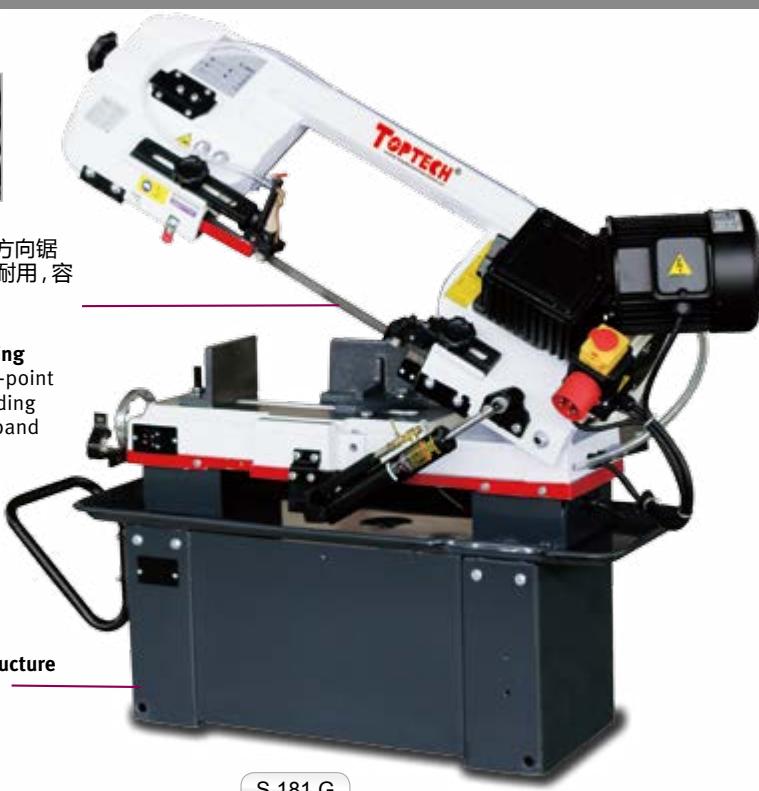


锯条导向

- 滚珠轴承3个方向锯条导向，精确耐用，容易调节
- 锯屑刷

Saw band guiding

- Ball bearing 5-point saw band guiding
- Outstanding band run and thus optimum cut
- Chip brush



S 181 G

机床技术参数 /Specification

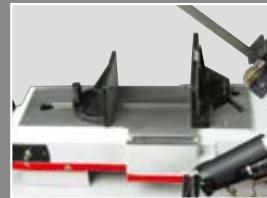
型号	Type	S 181G
货号	Item No	5118180
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	750 W 400 V / 3 Ph
锯条速度	Saw band speed	39/66/82 m/min
锯条尺寸	Saw band dimensions	2'362 x 19 x 0.9 mm
锯床尺寸	Dimensions	
长	Length	1'200 mm
宽	Width	
不带限停开关	without material limit stop	450 mm
带限停开关	with material limit stop	720 mm
高	Height	
最底部高度	lower stop position saw bow	1'050 mm
最顶部高度	upper stop position saw bow	1'600 mm
净重/毛重	NW./GW.	130/150kg
包装尺寸	Packing size	1300x460x1120mm

细节展示 Details



三种锯条转速

- 通过齿轮箱切换转速
- Three saw band speeds
- Switchable by means of the gearbox



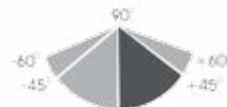
快速夹紧钳

- 夹爪可进行0-45度调节
- 用于角度切割
- Quick-action vice
- Clamping jaws adjustable from 0° to 45° for mitre cuts



冷却设备

- 标准设备
- 内置在底座中
- 冷却箱容积是11升
- Coolant equipment
- Standard equipment
- Integrated in the base
- Tank capacity 11 litres



Cutting range

0°		Ø 180 mm		180 x 240 mm 65 x 300 mm
45°		Ø 110 mm		170 x 110 mm

Saw bands HSS bi-metal M 42

Number of teeth	Tooth angle
5 - 8 tpi	0°
6 - 10 tpi	0°
5 - 8 tpi	6°

Saw band kit

- Saw band HSS bi-metal 6 - 10 TPI; 0°
- Saw band HSS bi-metal 5 - 8 TPI; 0°
- Saw band HSS bi-metal 5 - 8 TPI; 6°

METAL BAND SAW

金属切断锯 S275N/S275NV

优质、高效、高性价比

- 运行噪声低
- 坚固铸铁机身
- 无极转速带来高精度切割
- 两种切削速度
- 带无极转速节流阀装置的液压泵，易控制锯床的切割进给速度
- 带微动停止开关
- 锯床角度调整易读
- 随机配备了高质量的

- 双金属锯条
- 切割结束后，锯床自动停止
- 带锯床全套配置，用户可立即投入使用
- 无极变速锯条切割速度 20 - 90 m/min
- 操作过程中易调节切割速度

Convincing arguments: quality, efficiency and price

- Low-noise running
- Stable casting type
- High cutting accuracy due to vibration-free running
- Two switchable speeds
- Lowering of the saw bow by means of the hydraulic cylinder with infinitely variable throttle valve
- Micro switch for automatic limit stop
- Scale good read for angle adjustment
- With high-grade bimetallic saw band

- supplied as standard
- Adjustable material stop for series productions
- Fully equipped machine, the user can immediately start to work productively
- S 275NV
- Infinitely variable saw belt speeds 20 - 90 m/min.
- It is easily possible to change the speed during operation

锯条导向

- 使用了锯条导向轴承
- 锯条驱动切割
- 锯屑刷

Saw band guiding

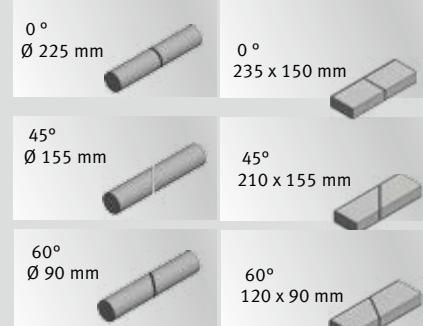
- Saw band guiding via ball bearing
- Outstanding band run and thus optimum cutting results
- Chip brush



机床技术参数 /Specification

型号	Type	S 275N	S 275NV
货号	Item No.	5127500	5627500
电器总容量	Electrical connection	400 V / 3 Ph ~50 Hz	230 V / 1 Ph ~50 Hz
电机功率	Motor power	1,1 kW	1,5 kW
冷却泵功率	Power of the coolant pump	90 W	
锯条速度	Saw band speed	45 / 90 m/min	20 - 90 m/min
锯条尺寸	Saw band dimension	2.480 x 27 x 0,9 mm	
切割角度	Cutting angle	from 0° to 60°	
净重/毛重	N.W./G.W.	185/200 kg	

Cutting ranges



Saw bands HSS bi-metal M 42

Teeth per inch	Tooth angle
5 - 8 tpi	0°
6 - 10 tpi	0°
5 - 8 tpi	6°

Saw band kit

- Saw band HSS bi-metal 5 - 8 tpi; 0°
- Saw band HSS bi-metal 6 - 10 tpi; 0°
- Saw band HSS bi-metal 5 - 8 tpi; 6°

METAL BAND SAW

金属切断锯 S210G

优质、高效、高性价比

- 坚固的铸铁机身设计
- 运行无振动，带来高精度的切割
- 操作时噪音低
- 两种可切换的锯条切割速度
- 切割结束可自动停机采用高质量液压泵和无级变速节流阀无级变速控制锯床的切割进给速度

Convincing arguments: quality, efficiency and price

- Heavy casting type
- High cutting accuracy due to vibration-free running
- Silent operation
- Two switchable saw band speeds
- With high-grade bimetallic saw band supplied as standard
- Material limit stop
- Automatic switch-off of the saw after termination of cutting
- Precise, infinitely variable lowering by means of hydraulic cylinder including throttle valve

锯条导向

- 5向滚珠
- 轴承
- 精确
- 耐用
- 可重复调节
- 锯屑刷

Saw band guiding

- 5-point ball bearing
- Precise
- Durable
- Re-adjustable

快速夹紧钳

- 通过手轮可调
- 通过便利的快速夹紧手柄夹紧工件

Quick-action vice

- Adjustable via handwheel
- Clamping the workpiece by means of the handy quick action lever



- 符合CE电气设备标准
- EMC滤波器
- CE conformity of the electrical equipment
- EMC filter



- 冷却泵
- Coolant pump
- Standard equipment

- 机身底部构造
- 结实耐用
- 标准设备

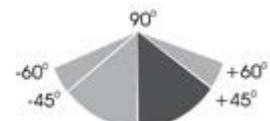
Machine substructure
· Robust
· Standard equipment

S210 G

机床技术参数 /Specification

型号	Model	S210G
货号	Code No.	5221000
最大锯切范围圆柱体 0°	Cutting range at 0°round	Ø170mm
最大锯切范围长方料 0°	Cutting range at 0°rectangular	210x140mm
最大锯切范围正方料 0°	Cutting range at 0°square	—
最大锯切范围圆料 +45°	Cutting range at +45°round	Ø125mm
最大锯切范围长方料 +45°	Cutting range at +45°rectangular	125x100mm
最大锯切范围正方料 +45°	Cutting range at +45°square	—
最大锯切范围圆料 -45°	Cutting range at -45°round	—
最大锯切范围长方料 -45°	Cutting range at -45°rectangular	—
最大锯切范围正方料 -45°	Cutting range at -45°square	—
最大锯切范围圆料 -60°	Cutting range at -60°round	—
最大锯切范围长方料 -60°	Cutting range at -60°rectangular	—
最大锯切范围正方料 -60°	Cutting range at -60°square	—
锯条速度	Saw belt speed	40/80m/min
锯条尺寸	Saw belt dimension	2080x20x0.9mm
电机	Motor power	750W 400V-50Hz
电机冷却系统	Motor coolant system	40W
净重 / 毛重	NW./GW.	185/200kg
包装尺寸	Packing size	1300x580x880mm

Cutting range S 210G				
0°		Ø 170 mm		210 x 140 mm
45°		Ø 125 mm		125 x 100 mm



可选附件 OPTIONAL EQUIPMENT

- 金属支架 Material stand MSR4×1m
MSR7×2m
- 锯条 Saw blade
 - 粗齿 M42 HSS(5-8 TPI)
 - 中齿 M42 HSS (6-10 TPI)
 - 细齿 M42 HSS (10-14 TPI)



METAL BAND SAW

金属切断锯 S 285DG

优质、高效、高性价比

- 坚固的铸铁机身设计
- 高精度可调工件切割长度定位
- 切割结束可自动停机
- 高精度、更耐用的锯条导向，可重复调节
- 两种可切换的锯条切割速度 45/90 m/min
- 通过回转整个锯弓可任意调节回转 -45 到 +60 度

Convincing arguments: quality, efficiency and price

- 随机配备高质量的双金属锯条
- 带工件切割长度定位
- 采用高质量液压泵和无级变速节流阀
- 无级变速控制锯床的切割进给速度
- 符合 CE 电气设备标准
- Heavy casting type
- Limit stops exactly adjustable within an accuracy of a degree
- Automatic switch-off of the saw after termination of cutting
- Precise and durable saw band guiding, re-adjustable
- Two switchable saw band speeds 45/90 m/min.
- Mitre adjustment from -45° up to 60° by slewing the whole saw bow

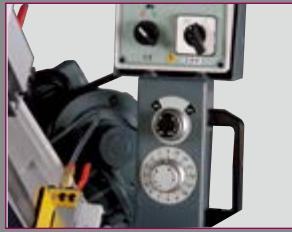
- With high-grade bimetallic saw band supplied as standard
- Material limit stop with scaling
- Precise, infinitely variable lowering by means of hydraulic cylinder
- CE conformity of the electrical equipment

细节展示 Details



压力计

- 简单正确地控制锯条张力
- Manometer**
- Simple and correct control of the saw band tension



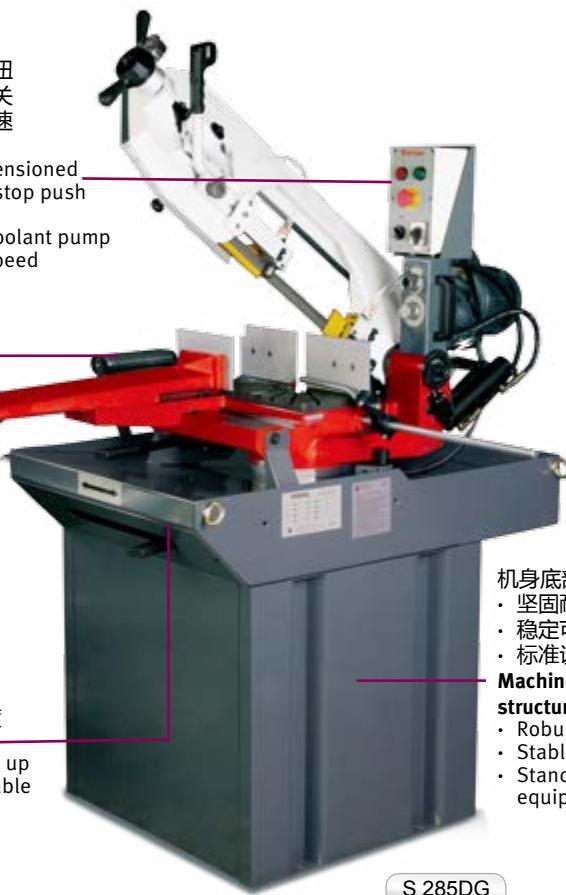
降低转速

- 通过控制面板上的进给齿轮控制阀进行简单调节
- Lowering speed**
- Simple adjustment via feed gear control valve on the control panel



冷却水泵

- 100W强功率
- 标准设备
- Coolant pump**
- High power 100 W
- Standard equipment



锯弓夹紧手柄

- 可切削-45到60度以内任意角度
- Clamping lever for saw bow
- Saw cuts in the range from -45° up to 60° are continuously adjustable

机床技术参数 /Specification

型号	Type	S 285 DG
货号	Item No	5228580
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	1.1 kW 400 V / 3 Ph
冷却泵电机功率	Motor coolant pump	100 W
锯条速度	Saw band speed	45 / 90 m/min
锯条尺寸	Saw band dimensions	2'480 x 27 x 0.9 mm
锯床尺寸	Dimensions	
长	Length	1'400 mm
宽(不带/带)限停开关	Width without / with material limit stop	870 / 1'270 mm
高(最低/最高)	Height bottom / upper stop position of saw bow	1'280/1'800 mm
净重/毛重	NW./GW.	295/315kg
包装尺寸	Packing size	1460x730x1060mm

S 285DG



Cutting range

0°		Ø 200 mm		245 x 150 mm
-60°		Ø 90 mm		90 x 110 mm
+45°		Ø 150 mm		145 x 215 mm
-45°		Ø 130 mm		100 x 140 mm

Saw bands HSS bi-metal M 42

5 - 8 tpi	Tooth angle
6 - 10 tpi	0°
5 - 8 tpi	6°

Saw band kit

- Saw band HSS bi-metal 5 - 8 TPI; 0°
- Saw band HSS bi-metal 6 - 10 TPI; 0°
- Saw band HSS bi-metal 5 - 8 TPI; 6°

METAL BAND SAW

金属切断锯 S 300DG/S 300DG V

优质、高效、高性价比

- 坚固的铸铁机身设计
- 高精度可调工件切割长度定位
- 切割结束可自动停机
- 高精度、更耐用的锯条导向，可重复调节
- 两种可切换的锯条切割速度 35/70 m/min
- 通过回转整个锯

- 弓可任意调节回转 -45 到 +60 度
- 随机配备高质量的双金属锯条
- 带工件切割长度定位
- 采用高质量液压泵和无级变速节流阀无级变速控制锯床的切割进给速度
- 符合 CE 电气设备标准

Convincing arguments: quality, efficiency and price

- Heavy casting type
- Limit stops exactly adjustable within an accuracy of a degree
- Automatic switch-off of the saw after termination of cutting
- Precise and durable saw band guiding, re-adjustable
- Two switchable saw band speeds 35/70 m/min.
- Mitre adjustment from -45° up to 60° by slewing the whole saw bow
- With high-grade bimetallic saw band supplied as standard
- Material limit stop with scaling
- Precise, infinitely variable lowering by means of hydraulic cylinder
- CE conformity of the electrical equipment

细节展示 Details



压力计

简单正确地控制锯条张力

Manometer

- Simple and correct control of the saw band tension



金属支架

- 用来支撑较长工件
- Roller support
- To support long materials

转速

- S 300DG 是两种转速 35/70m/min
- 无级变速款锯条转速无极变速调节 20-90m/min
- 专业发明技术

Speed

- S 300 DG with 2 saw band speeds **35 / 70 m/min**
- V type with infinitely variable saw band speed **20 - 90 m/min**
- Professional inventor technique



油盘

- 搜集冷却液，排泄工件废屑
- The collecting tray
- collects the coolant draining off the workpiece

冷却水泵

- 100W强功率
- 标准设备
- Coolant pump
- High power 100 W
- Standard equipment

快速夹紧钳

- 通过手轮可调
- 快速夹紧手柄带来强力夹紧力

Quick-action vice

- Adjustable via handwheel
- High clamping force due to quick-action clamping levers



锯弓夹紧手柄

- 可切削-45到60度以内任意角度
- Clamping lever for saw bow
- Saw cuts in the range from -45° up to 60° are continuously adjustable

降低转速

- 通过控制面板上的进给齿轮控制阀进行简单调节

Lowering speed

- Simple adjustment via feed gear control valve on the control panel

机床技术参数 /Specification

S 300DG

型号	Type	S 300DG
货号	Item No	5230080
型号	Type	S 300DG V
货号	Item No	5230180
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	1.5 kW 400 V / 3 Ph
冷却泵电机功率	Motor coolant pump	100 W
锯条速度	Saw band speed	35 / 70 m/min.
无级变速锯条速度	Saw band speed Vario	20 - 90 m/min
锯条尺寸	Saw band dimensions	2'750 X 27 X 0.9 mm
锯床尺寸	Dimensions	
长	Length	1'680 mm
宽(不带/带)限停开关	Width without / with material limit stop	700 / 1'300 mm
高(最低/最高)	Height bottom / upper stop position of saw bow	1'600 / 1'850 mm
净重/毛重	NW./GW.	335/371kg
包装尺寸	Packing size	1720X730X1130mm

Cutting range

0°		Ø 255 mm		310 X 210 mm
- 60°		Ø 135 mm		135 X 135 mm
+ 45°		Ø 220 mm		220 X 200 mm
- 45°		Ø 170 mm		170 X 170 mm

Saw bands HSS bi-metal M 42

Number of teeth	Tooth angle
5 - 8 tpi	0°
6 - 10 tpi	0°
5 - 8 tpi	10°

Saw band kit

- Saw bands HSS bi-metal 5 - 8 TPI; 0°
- Saw bands HSS bi-metal 6 - 10 TPI; 0°
- Saw bands HSS bi-metal 5 - 8 TPI; 10°

METAL BAND SAW

金属切断锯 S 310DG V

优质、高效、高性价比

- 坚固的铸铁机身设计
- 运行无振动，带来高精度的切割
- 操作时噪音低
- 低速时电机功率也很高
- 切割结束可自动停机
- 高精度、更耐用的锯条导向，可重复调节
- 随机配备高质量的双金属锯条
- 一定精度内可调工件切割长度定位
- 锯屑刷
- 采用高质量液压泵和无级变速控制锯床的切割速度
- 快速夹紧钳，可以快速夹持及更换工件，可生产更多材料



压力计

- 简单正确地控制锯条张力
- Manometer**
- Simple and correct control of the saw band tension



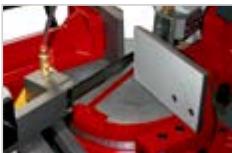
滚柱支架

- 用于支撑长物料
- Roller support**
- To support long materials



控制切割速度

- 通过控制面板上的进给齿轮控制阀筒单调节
- 急停开关按钮
- Lowering speed**
- Simple adjustment via feed gear control valve on the control panel
- Emergency-stop push button



旋转工作台

- 能切割-60到+45度内任意角度
- 刻度尺上角度清晰可读

Rotary table

- Every angle between -60° and +45° can be cut, because the kerf migrates with the saw arm
- Easy readable angle scale

Convincing arguments: quality, efficiency and price

- Heavy casting type
- High cutting accuracy due to vibration-free running
- Silent operation
- High motor power also at low speeds
- Automatic switch-off of the saw after termination of cutting
- Precise and durable saw band guiding, adjustable
- With high-grade bimetallic saw band supplied as standard
- Limit stops exactly adjustable within an accuracy of a degree
- Chip brush
- Precise, infinitely variable lowering by means of hydraulic cylinder
- Rapid and safe clamping of the workpiece by means of quick-action vice with additional lever, shiftable to produce large materials

控制面板

- 主开关
- 操作指示灯
- 带急停开关按钮
- 冷却水泵开关

Control panel

- Main switch
- Operating indicator lamp
- Emergency-stop push button

电位计

- 通过选择旋转开关
- 可手动/自动控制
- 锯条运行

- Switch for coolant pump
- Potentiometer
- Selection rotary switch
- Manual saw band run/automatic saw band run

无级变速驱动

- 通过变频器
- 持续调节锯条切割速度
- 专业的发明技术

Vario drive

- Via frequency converter
- Continuously adjustable saw band speed
- Professional inventor technique

- 符合CE电气设备标准
- EMC滤波器
- CE conformity of the electrical equipment
- EMC filter

工件切割长度定位

- 导向杆带刻度尺
- Material limit stop**
- Guide rod with scale

Coolant pump

- Standard equipment

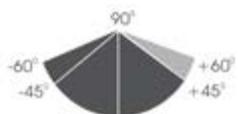
机身底部构造

- 结实耐用
- 稳定
- 标准设备

Machine substructure

- Robust
- Stable
- Standard equipment

S 310DG


Cutting range

0°		Ø 255 mm		315 x 230 mm
- 60°		Ø 115 mm		115 x 160 mm
+ 45°		Ø 160 mm		160 x 160 mm
- 45°		Ø 195 mm		195 x 230 mm


Saw bands HSS bi-metal M 42

Number of teeth	Tooth angle
5 - 8 tpi	0°
6 - 10 tpi	0°
5 - 8 tpi	6°

Saw band kit

- Saw bands HSS bi-metal 5 - 8 TPI; 0°
- Saw bands HSS bi-metal 6 - 10 TPI; 0°
- Saw bands HSS bi-metal 5 - 8 TPI; 10°

Material stand	Code No.
MSR 4	5901040
MSR 7	5901070
MSR 10	5901100

机床技术参数 /Specification

型号	Type	S 310DG V
货号	Item No	5231180
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	1.5 kW 400 V / 3 Ph
冷却泵电机功率	Motor coolant pump	100 W
锯条速度	Saw band speed	20 - 90 m/min
锯条尺寸	Saw band dimensions	2'750 x 27 x 0.9 mm
锯床尺寸	Dimensions	
长	Length	1'680 mm
宽(不带/带)限停开关	Width without / with material limit stop	700 / 1'330 mm
高(最低/最高)	Height bottom / upper stop position of saw bow	1'600 / 2'000 mm
净重/毛重	NW./GW.	380/416kg
包装尺寸	Packing size	1720x730x1130mm

METAL BAND SAW

金属切断锯 S 350DG

优质、高效、高性价比

- 切割精度高
- 两种可切换的锯条切割速度 36/72 m/min
- 机身可回转 60 度，可切割 60 度以内的任意角度
- 可合并或单独调节锯条滚珠 轴承导向
- 随机配备高质量的双金属锯
- 条
- 一定精度内可调工件切割长度定位
- 锯屑刷
- 切割结束可自动停机
- 滚柱支架可调节适用于更长更重的工件
- 坚固耐用的机身底座



压力计

- 简单正确地控制锯条 张力

Manometer

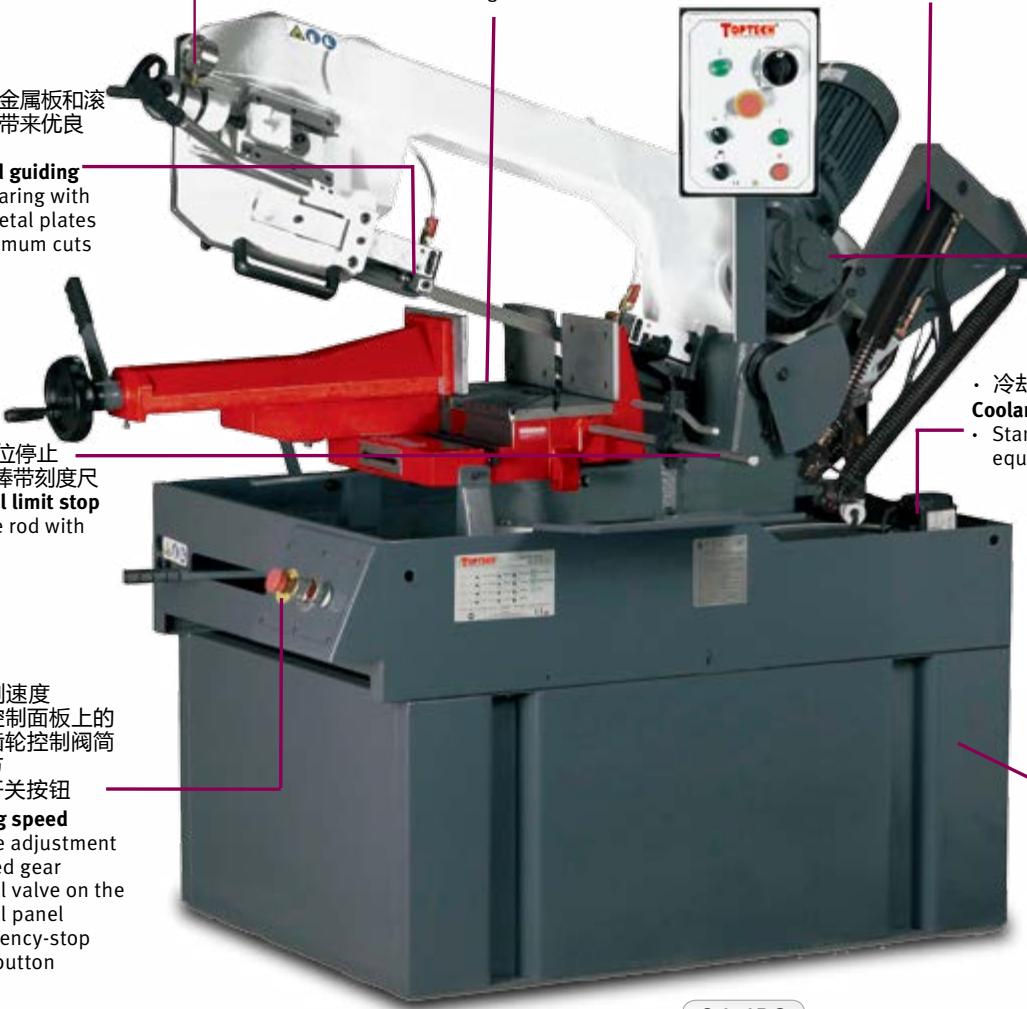
- Simple and correct control of the saw band tension

锯条导向

- 结实的金属板和滚珠轴承带来优良的切削

Saw band guiding

- Ball bearing with hard metal plates for optimum cuts



Convincing arguments: quality, efficiency and price

- Heavy industrial type
- High cutting accuracy
- Silent operation
- Two switchable saw band speeds 36/72 m/min.
- Mitre adjustment to 60° by slewing the whole saw bow
- Combinable and individual adjustable hard metal and ball-bearing guidance of the saw band
- With high-grade bimetallic saw band supplied as standard
- Limit stops exactly adjustable within an accuracy of a degree
- Chip brush
- Automatic switch-off of the saw after termination of cutting
- Roller support adjustable for long and heavy workpieces
- Solid machine base

控制面板

- 主开关
- 操作指示灯
- 带急停开关按钮
- 冷却水泵开关
- 速度选择开关

液压缸

- 无级变速调节锯弓运行
- Hydraulic cylinder
- Infinitely variable saw bow movement

- 符合CE电气设备标准
- EMC滤波器
- CE conformity of the electrical equipment
- EMC filter

- 冷却泵
- Coolant pump
- Standard equipment

控制切割速度

- 通过控制面板上的进给齿轮控制阀简单调节
- 急停开关按钮

Lowering speed

- Simple adjustment via feed gear control valve on the control panel
- Emergency-stop push button

机身底部

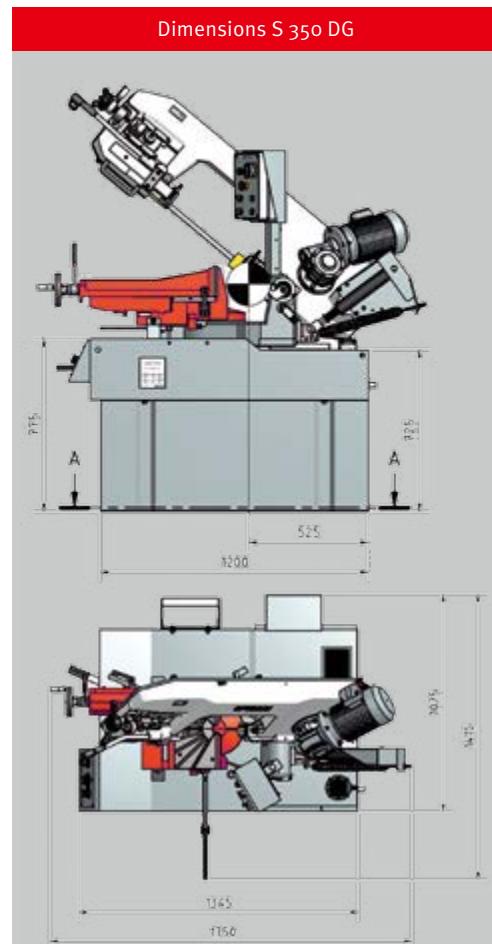
- 坚固耐用
- 稳定可靠
- 标准设备
- Machine substructure
- Robust
- Stable
- Standard equipment

S 350DG

机床技术参数 /Specification

型号	Model	S350DG
货号	Code No.	5235000
最大锯切范围圆柱体 0°	Cutting range at 0°round	Ø270mm
最大锯切范围长方料 0°	Cutting range at 0°rectangular	350x240mm
最大锯切范围正方料 0°	Cutting range at 0°square	260mm
最大锯切范围圆料 +45°	Cutting range at +45°round	Ø230mm
最大锯切范围长方料 +45°	Cutting range at +45°rectangular	230x150mm
最大锯切范围正方料 +45°	Cutting range at +45°square	210mm
最大锯切范围圆料 -45°	Cutting range at -45°round	Ø200mm
最大锯切范围长方料 -45°	Cutting range at -45°rectangular	200x140mm
最大锯切范围正方料 -45°	Cutting range at -45°square	170mm
最大锯切范围圆料 -60°	Cutting range at -60°round	Ø140mm
最大锯切范围长方料 -60°	Cutting range at -60°rectangular	140x140mm
最大锯切范围正方料 -60°	Cutting range at -60°square	140mm
锯条速度	Saw belt speed	36/72m/min
锯条尺寸	Saw belt dimension	2925x27x0.9mm
电机	Motor power	2.2KW 400V-50Hz
电机冷却系统	Motor coolant system	50W
净重 / 毛重	NW./GW.	550/600kg
包装尺寸	Packing size	1930x970x1120mm

Dimensions S 350 DG



Cutting range

0°		Ø 270 mm		350 x 240 mm
- 60°		Ø 140 mm		140 x 140 mm
+ 45°		Ø 230 mm		230 x 150 mm
- 45°		Ø 200 mm		200 x 140 mm

SAW

Saw bands (For optional)

Number of teeth	Tooth angle
5 - 8 tpi	0°
6 - 10 tpi	0°
10-14 tpi	6°



Material stand (For optional)	Code No.
MSR 4	5901040
MSR 7	5901070
MSR 10	5901100

MSR 4 / MSR 7 / MSR 10

SEMI-AUTOMATIC DOUBLE MITRE METAL BAND SAW

半自动双回转金属带锯 SD 350AV

优质、高效、高性价比

- 手动或半自动操作
- 适用于重工业型
- 切割精度高
- 操作时噪音低
- 机身可回转 60 度，可切割 60 度以内的任意角度
- 可合并或单独调节锯条滚珠轴承导向

- 随机配备高质量的双金属锯条
- 一定精度内可调工件切割长度定位
- 锯屑刷
- 切割结束可自动停机
- 滚柱支架可调节适用于更长更重的工作

Convincing arguments: quality, efficiency and price

- Manual or semi-automatic operation
- Heavy industrial type
- High cutting accuracy
- Silent operation
- Mitre adjustment to 60° by slewing the whole saw bow
- Combinable and individual adjustable hard metal and ball-bearing guidance of the saw

- band
- With high-grade bimetallic saw band supplied as standard
- Limit stops exactly adjustable within an accuracy of a degree
- Chip brush
- Automatic switch-off of the saw after termination of cutting
- Roller support adjustable for long and heavy workpieces



压力计

- 简单正确地控制锯条张力
- Manometer**
- Simple and correct control of the saw band tension



- 快换夹紧钳
- 大尺寸
- 液压
- 自动关闭
- 可移动打工作面
- 无级变速切割范围从-45° 到+60°
- 角度可以通过刻度调节

Robust quick-action vice

- Largely dimensioned
- Hydraulic
- Automatically closing
- Shiftable for large cross sections
- Saw cuts in the range from -45° up to +60° are infinitely variable
- Angle adjustments are readable via scale

锯条导向

- 结实的金属板和滚珠轴承带来优良的切削

Saw band guiding

- Ball bearing with hard metal plates for optimum cuts



自动限位停止

- 导向棒带刻度尺
- Material limit stop**
- Guide rod with scale



控制面板

- 布局清晰
 - 可旋转
- Control panel**
- Clearly arranged
 - Slevable

液压泵

- 锯弓可无级变速移动
- Hydraulic cylinder**
- Infinitely variable saw bow movement



控制切割速度

- 通过控制面板上的进给齿轮控制阀筒单调节
- 急停开关按钮

Lowering speed

- Simple adjustment via feed gear control valve on the control panel
- Emergency-stop push button

- 符合CE电气设备标准
- EMC滤波器
- CE conformity of the electrical equipment
- EMC filter

SD 350AV

- 机身底部
- 坚固耐用
- 稳定可靠
- 标准设备

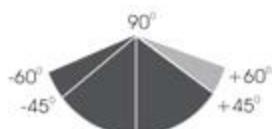
- Machine substruc-
- robust
- stable
- standard equipment

- 半自动操作功能
 · 合上夹紧钳
 · 启动电机
 · 降下锯弓进行切割
 · 停下电机
 · 将锯弓恢复到原始位置

- Function semi-automatic operation**
 • Closing the vice
 • Activating the motor
 • Lowering of the saw bow for cutting
 • stopping of the motor
 • Return of the saw bow in the initial position

机床技术参数 /Specification

型号	Type	SD 350AV
货号	Item No	5235280
电器总容量	Electrical connection	
电机功率	Motor power ~50 Hz	2.2 kW 400 V / 3 Ph
冷却泵电机功率	Motor coolant pump	50 W
升降齿条	Lifting the saw bow	
· 手动模式	• Manual mode	Hydraulic mode by push button
· 半自动模式	• Semi-automatic mode	automatically
进给	Feed	continuously adjustable
锯条速度	Saw band speed	0 - 80 m/min
锯条尺寸	Saw band dimensions	2'925 x 27 x 0.9 mm
锯床尺寸	Dimensions	
长	Length	1'750 mm
宽(不带/带)限停开关	Width without / with material limit stop	1'075 / 1'415 mm
高(最低/最高))	Height bottom /upper stop position of saw bow	1'420 / 2'000 mm
净重/毛重	NW./GW.	600/650 kg
包装尺寸	Packing size	1930x970x1120mm



Cutting range

0°		Ø 270 mm		350 x 240 mm
- 60°		Ø 140 mm		140 x 140 mm
+ 45°		Ø 230 mm		230 x 150 mm
- 45°		Ø 200 mm		200 x 140 mm

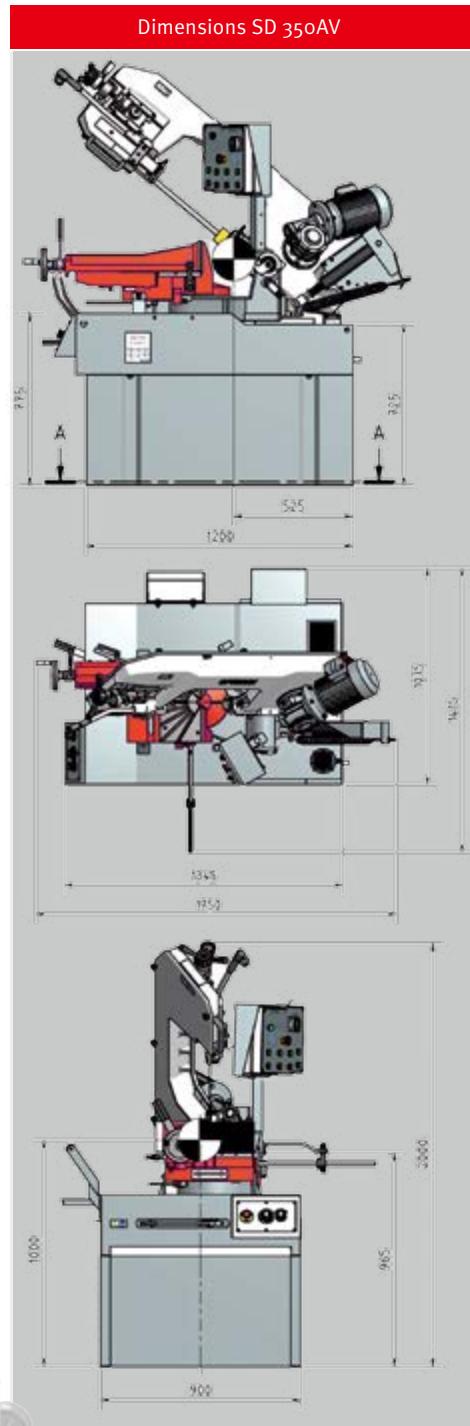
Saw bands HSS bi-metal M 42

Number of teeth	Tooth angle
5 - 8 tpi	0°
6 - 10 tpi	0°
4 - 6 tpi	6°

Saw band kit

- Saw band HSS bi-metal, 5 - 8 TPI; 0°
- Saw band HSS bi-metal, 6 - 10 TPI; 0°
- Saw band HSS bi-metal, 4 - 6 TPI; 6

Material stand (For optional)	Code No.
MSR 4	5901040
MSR 7	5901070
MSR 10	5901100



MSR 4 / MSR 7 / MSR 10

MANUAL CIRCULAR METAL SAW

金属切削圆盘锯 CS 275/CS315/CS350

优质、高效、高性价比

- 回转角度 -45 到 +45 度
 - 机座的角度尺可精确调整切割角度
 - 只要几秒钟轻松调节机身回转
 - 台虎钳心轴安全保护
 - 机身底座的工作台两侧都留有孔，可方便的连接 MSR 工件支架
 - 机身底座尺寸：
 - CS 275 - 460 x 515 x 775 mm
 - CS 315 - 546 x 620 x 801 mm
- 发货时锯床不带锯片（可自由选择锯片螺距）

防护罩壳

- 功能性
- 全封闭
- 可移动式
- 良好的切断保护装置

Protective equipment

- Functional
- All-surrounding
- Mobile
- Rapid opening mechanism provides for optimum safety when cutting



台虎钳

- 中心夹紧
- 四维导向
- 可独立调整的钳口
- 可保护工件在最佳位置切断
- 4杠杠夹紧机构
- 台虎钳心轴安全保护

Vice

- Centric clamping
- 4-time guided
- Individually adjustable jaws
- Cut is always performed in an optimum position to the workpiece
- 4-lever clamping system
- Protected vice spindle



冷却水泵

- 水箱可拆分
- 内置强功率水泵

Coolant pump

- Detachable coolant tank
- Integrated powerful pump

Convincing arguments: quality, efficiency and price

- Slewing range of $\pm 45^\circ$
- Easy readable angle scale allows precise working
- Adjustment of the mitre in a matter of seconds
- Protected vice spindle
- Solid machine base with holes on both sides for the installation of the material stand MSR
- Machine base sizes:
 - CS 275 - 460 x 515 x 775 mm and
 - CS 315 - 546 x 620 x 801 mm
- The saw is delivered without circular saw blade(saw blade pitch freely selectable)

加长手柄

- 可省力切断工件
- 手柄末端内置开关按钮
- 切割的时候可自动启动冷却水泵

Long handle

- Allows sawing without large efforts
- Integrated push button (On/Off)
- Automatic switching on of the coolant pump when sawing

机身底部构造

- 坚固耐用
- 可锁式门

Machine substructure

- Solid
- Lockable door



Material stand (For optional)	Code No.
MSR 4	5901040
MSR 7	5901070
MSR 10	5901100

CS 315

机床技术参数 /Specification

型号 Model	CS275	CS315	CS350
货号 Code No.	5427500	5431500	5435000
最大锯切范围圆料 0° Cutting range at 0°round	Ø60mm	Ø70mm	Ø110mm
最大锯切范围长方料 0° Cutting range at 0°rectangular	100X60mm	130X70mm	135X110mm
最大锯切范围正方料 0° Cutting range at 0°square	60X60mm	70X70mm	110X110mm
最大锯切范围圆料 45° Cutting range at 45°round	Ø60mm	Ø70mm	Ø110mm
最大锯切范围长方料 45° Cutting range at 45°rectangular	70X60mm	90X70mm	110X90mm
最大锯切范围正方料 45° Cutting range at 45°square	60X60mm	70X70mm	95X95mm
锯片速度 Speed of sawing blade	96 / 48 rpm	38 / 19 rpm	38 / 19 rpm
锯片直径 Diameter of sawing blade	Ø275mm	Ø315mm	Ø350mm
电机 Motor power	2/1.4KW 400V/50Hz	1.5/0.75KW 400V/50Hz	1.5/1.1KW 415V/50Hz
包装尺寸 Packing size	940x560x1550mm	1000x630x1570mm	630x1000x1510mm
净重 Net weight	156kg	200kg	226kg

Cutting range CS 275

0°		Ø 60 mm		100 x 60 mm		60 mm
45°		Ø 60 mm		70 x 60 mm		60 mm

Cutting range CS 315

0°		Ø 85 mm		130 x 70 mm		70 mm
45°		Ø 85 mm		90 x 70 mm		70 mm

Information on circular saw blades

4 T/mm: Tube/profile (wall thickness)

- up to 1 mm: Aluminium / Bronze / Copper / Brass
- up to 1.5 mm: Steels up to 1'500 N/m²/Stainless steels
- up to 2 mm: Steels up to 1'200 N/m²

6 T/mm: Tube/profile (wall thickness)

- up to 1.5 mm: Aluminium / Bronze / Copper / Brass
- from 3 mm on: Steels up to 1'800 N/m²

6 T/mm: Solid (cross section)

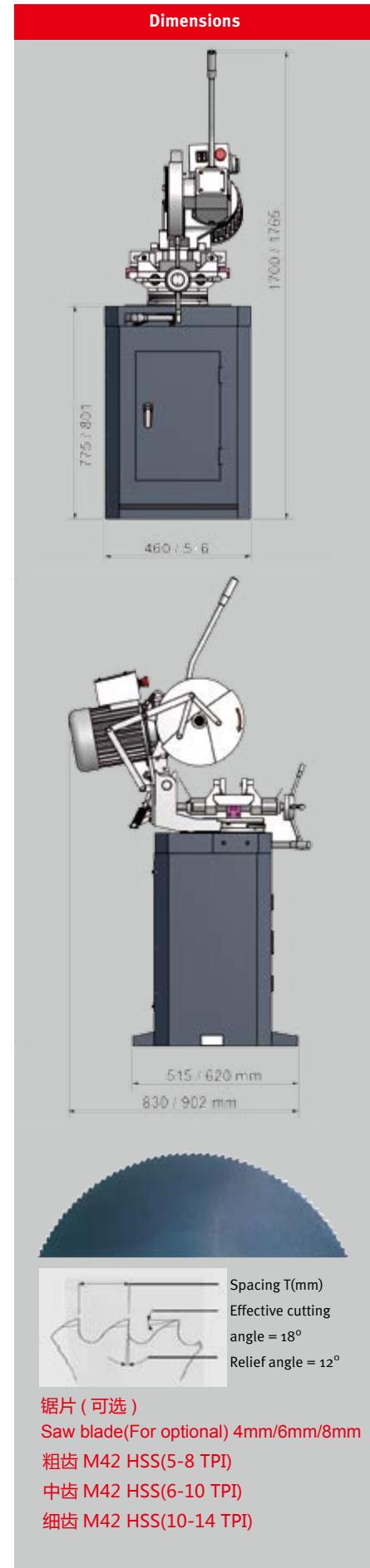
- 10-20 mm: Aluminium / Bronze / Copper / Brass
- 20-40 mm: Steels up to 1'800 N/m²/Stainless steels

8 T/mm: Tube/profile (wall thickness)

- from 3 mm on: Aluminium / Bronze / Copper / Brass

8 T/mm: Solid (cross section)

- 20-40 mm: Steels up to 1'800 N/m² Aluminium/Bronze/Copper
- 40-60 mm: Steels up to 1'200 N/m² Stainless steels



锯片 (可选)

Saw blade(For optional) 4mm/6mm/8mm

粗齿 M42 HSS(5-8 TPI)

中齿 M42 HSS(6-10 TPI)

细齿 M42 HSS(10-14 TPI)

AUTOMATIC CIRCULAR METAL SAW

全自动金属圆盘切割机 CS 315SA/CS 350SA

优质、高效、高性价比

- 强功率双速电机
- 气动夹紧，快速稳定可靠
- 自动切削，速度可调
- 良好的切断保护装置
- 中心定位四维导向台虎钳，可独立调整钳口
- 装有整体水泵的可移动水箱

Convincing arguments: quality, efficiency and price

- Strong 2-Speed motor
- Pneumatic clamp, quickly and reliably
- Automatic cutting vario speed
- High-grade, fracture proof and movable protective device with rapid opening mechanism provides optimum protection when cutting
- Centrical orientation vice, quadruple guiding, with individually adjustable jaws
- Removable coolant tank with integrated powerful pump

- 液压/手工工件夹紧
- Vice fixed by manual or hydraulic

- 强功率电机
- Strong motor

- 工件支撑架 (可选附件)
- Workpiece support(optional)

- 切割进给速度调整手柄
- Adjustment of cutting speed power feed

- 脚踏或双位开关，控制工件夹紧及切割进给
- Double switch for control vice clamping and cutting power feed

- 整体带冷却钢底座
- Strong stand with coolant pump inside



机床技术参数 /Specification

型号	Model	CS315SA	CS350SA
货号	Code No.	5531500	5535000
电机功率	Motor power	1.5KW/1.1KW (4/8 Pole) 400V/50Hz	1.5KW/1.1KW (4/8 Pole) 400V/50Hz
锯片速度	Saw blade speed	38/19 r/min	38/19 r/min
主轴箱回转角度	Head rotation	±45°	±45°
夹钳型式	Clamping vice	双边Double	双边Double
夹钳最大开档	Max. vice opening	145mm	145mm
冷却水泵	Coolant motor	40W / 400V / 50Hz	40W / 400V / 50Hz
锯片最大直径	Blade max.diameter	Ø315mm	Ø350mm
锯片孔径	Blade bore	Ø40mm	Ø40mm
锯片定位销孔	Blade pin holes	2xØ8xPCD55mm	2xØ8xPCD55mm
使用空气压力	Air pressure	6 Kg/cm²(120 l/min)	6 Kg/cm²(120 l/min)
0°最大锯切能力 , 圆形	0° round, max.	85mm	110mm
0°最大锯切能力 , 长方形	0° rectangular, max.	130x70mm	135x110mm
0°最大锯切能力 , 正方形	0° square, max.	70x70mm	110x110mm
45°最大锯切能力 , 圆形	45° round, max.	85mm	110mm
45°最大锯切能力 , 长方形	45° rectangular, max.	90x70mm	110x90mm
45°最大锯切能力 , 正方形	45° square, max.	70x70mm	95x95mm
外形尺寸	Machine dimension	980x640x1650mm	980x640x1680mm
包装尺寸	Packing size	1050x630x1530mm	1050x630x1550mm
净重/毛重	NW/GW	270/320kg	290/345kg

Cutting range CS 315SA

0°		Ø 85 mm		130 x 70 mm		70 mm
45°		Ø 85 mm		90 x 70 mm		70 mm

Cutting range CS 350SA

0°		Ø 110 mm		135 x 110 mm		110 mm
45°		Ø 110 mm		110 x 90 mm		95 mm

可选附件 OPTIONAL EQUIPMENT

1. 金属支架 Material stand MSR4
 2. 锯片
 Saw blade 4mm/6mm/8mm
 粗齿 M42 HSS(5-8 TPI)
 中齿 M42 HSS(6-10 TPI)
 细齿 M42 HSS(10-14 TPI)



1.MSR 4



2.Saw blade

DOUBLE COLUMN HORIZONTAL BAND SAW

双立柱卧式带锯床

细节展示 Details

型号 Model 切割能力 Capacity of cutting

GB4225	● 250	■ 250X250
GB4240	● 400	■ 400X400
GB4250	● 500	■ 500X500
GB4265	● 650	■ 650X650
GB4280	● 800	■ 800X800
GB42100	● 1000	■ 1000X1000



GB4040



液压升降
Hydraulic up & down



锯床主电机轮
Motor pulley



锯条支承调整
Saw blade holder
adjustment



标准长工件延伸支架
Standard material stand



可选延伸支架
Optional material stand

MSR4 1m
MSR7 2m
MSR9 3m

机床技术参数 /Specification

型号 Model	GB4040/60A	GB4225	GB4230/40A	GB4240
货号 Code No.	5326000	5322500	5323000	5324000
切断范围 Cutting off limit(mm)	● 400 ■ 320×600	● 250 ■ 250×250	● 300 ■ 300×400	● 400 ■ 400×400
锯条规格 (长 × 宽 × 高) Sile of band saw(mm)	4570×34×1.1	3660×27×0.9	3820×27×0.9	4570×34×1.1
锯条线速度 Linespeed of band saw(m/min)	25 · 45 · 65	25 · 50 · 80	25 · 50 · 80	25 · 45 · 65
电机功率 Total motor power(kw)	4.9	2.5	3.3	4.6
主机包装尺寸 (长 × 宽 × 高) Size of outward(L×W×H)	2530×1450×1250mm	2100×1300×1100mm	2100×1400×1100mm	2540×1650×1250mm
整机净重 Machine weight(kg)	1780	1000	1150	1860

型号 Model	GB4250	GB4265	GB4280	GB42100	GB42100/130
货号 Code No.	5325000	5326500	5328000	5321000	5321300
切断范围 Cutting off limit(mm)	● 500 ■ 500×500	● 650 ■ 650×650	● 800 ■ 800×800	● 1000 ■ 1000×1000	● 1000 ■ 1000×1300
锯条规格 (长 × 宽 × 高) Sile of band saw(mm)	5700×41×1.3mm	6800×54×1.6mm	7740×45×1.6mm	10270×67×1.6mm	11280×67×1.61mm
锯条线速度 Linespeed of band saw(m/min)	25 · 45 · 65	25 · 45 · 65	无级变速 Vario	无级变速 Vario	无级变速 Vario
电机功率 Total motor power(kw)	7.4	8.2	10.5	16	16.5
主机包装尺寸 (长 × 宽 × 高) Size of outward(L×W×H)	2850×2100×1350	3200×2300×1450	3900×2550×1800	5500×3200×2020	5800×3200×2020
整机净重 Machine weight(kg)	4200	5200	6500	15000	16500

型号 Model	GZ4225	GZ4230/40	GZ4240	GZ4250
货号 Code No.	5312500	5313000	5314000	5315000
切断范围 Cutting off limit(mm)	● 250 ■ 250×250	● 300 ■ 300×400	● 400 ■ 400×400	● 500 ■ 500×500
锯条规格 (长 × 宽 × 高) Sile of band saw(mm)	3660×27×0.9	3820×27×0.9	4570×34×1.1	5900×41×1.3
锯条线速度 Linespeed of band saw(m/min)	25 · 50 · 80	25 · 50 · 80	25 · 45 · 65	25 · 45 · 65
电机功率 Total motor power(kw)	3.3	4.0	5.7	7.5
主机包装尺寸 (长 × 宽 × 高) Size of outward(L×W×H)	2100×1800×1100mm	2100×1900×1100mm	2530×1650×1550mm	3400×2000×1900mm
整机净重 Machine weight(kg)	1500	1650	2500	4800

MOUNTING PLATE MSR

锯床连接支架 MSR4/MSR7/MSR10

优质、高效、高性价比

- 支撑较长较重工件的完美工具
- 可普遍适用于金属带锯、圆盘锯等
- 对工件供给和拆除等运输方面提供简单有效的帮助
- 滚珠支架高度可无限调节并夹紧
- 由高强度轴承制作的钢辊保证工件的安全性
- 可无限延长
- 可选装 LMS 长度测量仪

H version variably adjustable up to 1050 mm.

H 版可调节到 1050 毫米。

Convincing arguments: quality, efficiency and price

- Optimum aids to support long and heavy workpieces
- Universally applicable for e.g. metal band saws, circular saws, etc.
- Easy and efficient material transportation for the supply and removal of workpieces
- Roller support infinitely height adjustable and can be clamped
- Safe workpiece support due to steel rollers which are massive high-capable of bearing
- Infinitely extendable
- Mounting option of the distance measuring system LMS

Convincing arguments...



框架结构

- 结构稳定
- 特殊轮廓坚固耐用
- 承载压辊
- 钢制
- 两边均有滚珠轴承 sides
- Frame
- Stable type
- Solid special profile
- Load-bearing rollers
- Steel
- Ball bearings on both sides



每层高度

- 从 650 到 950 mm 无限可调
- Layer height
- Infinitely variable from 650 to 950 mm



附件PVC压辊

- 可额外安装
- 由防滑 PVC 材料制成
- 防刮伤
- 轻松安装压辊到安装支架内
- Accessories PVC rolls
- Additionally mountable
- Made of anti-skid PVC
- To avoid scratches
- Simply mount rolls into the existing mounting brackets



PVC 压辊在支架的实际运用

PVC rolls in practical wall bracket



型号	Type	MSR 4	MSR 7	MSR 10
货号	Item No	5901040	5901070	5901100
型号	Type	MSR 4H	MSR 7H	MSR 10H
货号	Item No	5901041	5901071	5901101
技术数据	Technical data			
支承轮直径	Diameter of support rollers	60 mm	60 mm	60 mm
支承轮宽度	Width of support rollers	360 mm	360 mm	360 mm
承受重量	Static table load	500 kg	700 kg	700 kg
尺寸	Dimensions			
长	Length	1000 mm	2000 mm	3000 mm
宽	Width	440 mm	440 mm	440 mm
高	Height	650 - 950 mm	650 - 950 mm	650 - 950 mm
高	Height H version	660 - 1050 mm	660 - 1050 mm	660 - 1050 mm
重量	Net weight	30 kg	58 kg	78 kg
标准设备	Standard equipment	Fixing material for elongation		

Bench Grinder

BENCH GRINDER



PSM 200/250/350 F2



SM175/200/250/300 F3



DS250/QSM175E/SM250E F4



IBG150/175/200/250 F5



SM200-SL1/SM250-SL2 F6



MD150-B686/MM1130 F7

MM2315/MM4115 F8



DBS75 F9



BSM75/150/75L/150L F10



BSM100x1000/120x1500 F12



TGM-3 F13



GH10T/15T/20T F14



GU 1/GU 2 F16



GU 15/18/20/25 F17

NTS 251 F18



GQ-D13/DG20 F20

PSM POLISHER

布轮抛光机 PSM 200/250/350



PSM200

PSM250



专利号 : ZL 02 3 49848.X
Patent No.:ZL 02 3 49848.X

可选附件 Optional :
底座 Steel stand



PSM 350

机床技术参数 /Specification

型号	Model	PSM200	PSM250	PSM350
货号	Code No.	6820002	6825005	6835003
布轮尺寸	Dimension of polishing wheel	ø200x20, ø16mm	ø250x25, ø20mm	ø350x40, ø16mm
额定功率	Rated power	600W	1.5KW	2.2KW
额定电压	Rated voltage	230V	380V	400V
转速	Speed	2950rpm	2950rpm	1450rpm
包装尺寸	Packing size	540x202x252mm	630x250x315mm	1060x330x530mm
净重 / 毛重	NW/GW	9/11kg	22/25kg	54/66kg

GRINDER

砂 轮 机 SM 175/200/250/300

- 重型工业砂轮机，使用寿命长，电机免维护
- 压铸铝罩壳
- 转子做过动平衡，配上高品质滚珠轴承，保证更长使用寿命，运转更顺畅
- 安全防护罩，防止火花溅出
- 刀架支撑坚固耐用，可调节角度

- 防护镜采用耐摔材料
- 橡胶脚垫易吸收振动
- 配两只通用的金刚砂轮片
SM 175: Width 25 mm
SM 200: Width 30 mm
SM 250: Width 40 mm
SM 300: Width 50 mm

- Heavy long-life industrial type with maintenance-free motor for permanent use
- Housing made of aluminium die casting
- Balanced rotor with quality ball bearings ensures long service life and very smooth running
- Spark protection on each grinding wheel reduces flying sparks
- Solid, adjustable workpiece support

- Inspection glasses made of break-proof material
- Vibration-absorbing rubber feet
- Two universal corundum grinding wheels
SM 175: Width 25 mm
SM 200: Width 30 mm
SM 250: Width 40 mm
SM 300: Width 50 mm



SM 300



SM 250

Grinding wheels
Regular corundum rough K 36

Ø 175 x 25 Ø 32 mm	310 7180
Ø 200 x 30 Ø 32mm	310 7210
Ø 250 x 40 Ø 32mm	310 7250
Ø 300 x 50 Ø 75mm	310 7270

Grinding wheels
Regular corundum fine K 80

Ø 175 x 25 Ø 32 mm	310 7185
Ø 200 x 30 Ø 32mm	310 7215
Ø 250 x 40 Ø 32mm	310 7255
Ø 300 x 50 Ø 75mm	310 7275



K 36



K 80

型号	Type	SM 175	SM 200	SM 250	SM 300
货号	Code No.	6131750	6132002/6132003	6132500	6133000
机器参数	Machine datas				
输入电压	Electrical connection	230 V / 1 Ph ~50 Hz	230 V / 1 Ph or 400V / 3Ph	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
电机功率	Motor power	450 W	600 W	1.5 kW	2.2 kW
砂轮	Grinding wheels				
砂轮尺寸	Dimensions	Ø 175 x 25 Ø 32 mm	Ø 200 x 30 Ø 32 mm	Ø 250 x 40 Ø 32 mm	Ø 300 x 50 Ø 75 mm
砂轮转速	Speeds	2'850 min⁻¹	2'850 min⁻¹	2'850 min⁻¹	1'450 min⁻¹
无级变速转速	Speeds Vario	-	800 - 2'850 min⁻¹	800 - 2'850 min⁻¹	-
尺寸	Dimensions				
长x宽x高	Length x width x height	456 x 220 x 291 mm	461 x 246 x 310 mm	542 x 304 x 365 mm	736 x 365 x 407 mm
净重	Net weight	14 kg	16 kg	37 kg	84 kg
无级变速净重	Net weight Vario	-	21 kg	45 kg	-

GRINDER

砂轮机 DS 250/QSM 175E/SM 250E



DS 250

机床技术参数 /Specification

型号	Model	DS 250
货号	Code No.	6152510
砂轮机规格	Size of grinding wheel	250x32x32mm
额定输入功率	Rated input power	900W
额定电压	Rated voltage	400V/3PH
额定频率	Rated frequency	50HZ
空载转速	No load speed	2950 r/min
净重 / 毛重	N.W/G.W	36/37.5Kg
包装尺寸	Packing size	600X600X400mm



QSM 175E



SM 250E

机床技术参数 /Specification

型号	Model	QSM 175E	SM 250E
货号	Code No.	6121750	6132510
砂轮机规格	Size of grinding wheel	175x20x32mm	250x25x20mm
额定输入功率	Rated input power	450W	1.5KW
额定电压	Rated voltage	115V/1PH	230V/3PH
额定频率	Rated frequency	60HZ	60HZ
空载转速	No load speed	3450 r/min	3450 r/min
净重 / 毛重	N.W/G.W	13/14.5Kg	35/37Kg
包装尺寸	Packing size	445X295X250mm	630X250X315mm

INDUSTRIAL GRINDER

工业砂轮机 IBG 150/175/200/250



IBG 150



IBG 175



IBG 200



IBG 250

机床技术参数 /Specification

型号	Model	IBG150	IBG175	IBG200	IBG250
货号	Code No.	6141500	6141700	6142000	6142500
电压	Voltage	230V~50Hz 1~	230V~50Hz 1~	380V~50Hz 3~	380V~50Hz 3~
电机	Motor	500W S2=30min;2850 rpm	600W S2=30min;2850 rpm	900W S2=30min;2850 rpm	900W S2=30min;2850 rpm
砂轮尺寸	Wheel size	Ø150x25xØ32mm	Ø175x25xØ32mm	Ø200x32xØ32mm	Ø250x32xØ32mm
防护等级	Protection grade	IP20	IP20	IP20	IP20
包装尺寸	Packing size	485x258x220mm	485x275x247mm	540x300x275mm	580x365x290mm
净 / 毛重	NW/GW	16.5/19kg	17.5/19kg	26.5/28kg	33/35kg

BELT & WHEEL SANDER

砂轮砂带机 SM 200-SL 1

机床技术参数 /Specification

型号	Model	SM200-SL1
货号	Code No.	6320000
功率	Power	600W
电压	Voltage	230/380V 50Hz
砂带线速度	Belt speed	16m/s
砂带尺寸	Belt size	762x75mm
砂带角度调整范围	Belt angle adjusting range	0-90°
砂轮转速	Wheel speed	2850rpm
砂轮规格	Wheel size	200x30x32mm
净重 / 毛重	NW./GW.	18.5/20kg
包装尺寸	Packing size	540x480x490mm



SM200-SL1

BELT & WHEEL SANDER

砂轮砂带机 SM 250-SL 2



机床技术参数 /Specification

型号	Model	SM250-SL2
货号	Code No.	6325000
功率	Power	1.5KW
电压	Voltage	230/380V
砂带线速度	Belt speed	16m/s
砂带尺寸	Belt size	1016X75mm
砂带角度调整范围	Belt angle adjusting range	0-90°
砂轮转速	Wheel speed	2850rpm
砂轮规格	Wheel size	250x40x32mm
净重 / 毛重	NW./GW.	37/40kg
包装尺寸	Packing size	620x580x555mm

SM250-SL2

BELT & WHEEL SANDER

砂轮砂带机 MD150-B686

机床技术参数 /Specification

型号	Model	MD150-B686
货号	Code No.	6315000
电机	Motor	230V 50Hz 250W
砂轮尺寸	Wheel size	Ø150x20xØ12.7mm
转速	Speed	2950rpm
砂带尺寸	Belt size	50x686mm
净重 / 毛重	NW/GW	10/11kg
包装尺寸	Packing size	400x340x220mm



MD150-B686

DISC SANDER

砂盘机 MM 1130

机床技术参数 /Specification

型号	Model	MM1130
货号	Code No.	6433000
电机	Motor	900W
砂盘直径	Sand disc diameter	Ø305mm
工作台尺寸	Table size	440x156mm
工作台倾斜范围	Table tilting range	0-45°
砂盘速度	Disc speed	1420 rpm
净重 / 毛重	NW/GW	28.5/30.5kg
外形尺寸	Dimension	485x438x362mm
包装尺寸	Packing size	440x445x365mm



MM 1130

BELT DISC GRINDING MACHINE

砂盘砂带机 MM 2315/MM4115



MM 2315



MM 4115

机床技术参数 /Specification

型号	Model	MM2315	MM4115
货号	Code No.	6412300	6414100
电机	Motor	750W	500W
砂盘直径	Sand disc diameter	Ø230mm	Ø152mm
砂带尺寸	Belt size	150x1220mm	100x914mm
工作台尺寸	Table size	314x157mm	158x225mm
工作台倾斜范围	Table tilting range	0-45°	0-45°
砂盘速度	Disc speed	1400 rpm	2400 rpm
砂带速度	Belt speed	5.3m/s	7.6m/s
净重 / 毛重	NW/GW	49.5/52kg	22/24kg
外形尺寸	Dimension	728x505x1006mm	545x430x302mm
包装尺寸	Packing size	705x385x445mm	620x325x380mm

BELT DISC GRINDING MACHINE

砂盘砂带机 DBS 75

优质、高效、高性价比

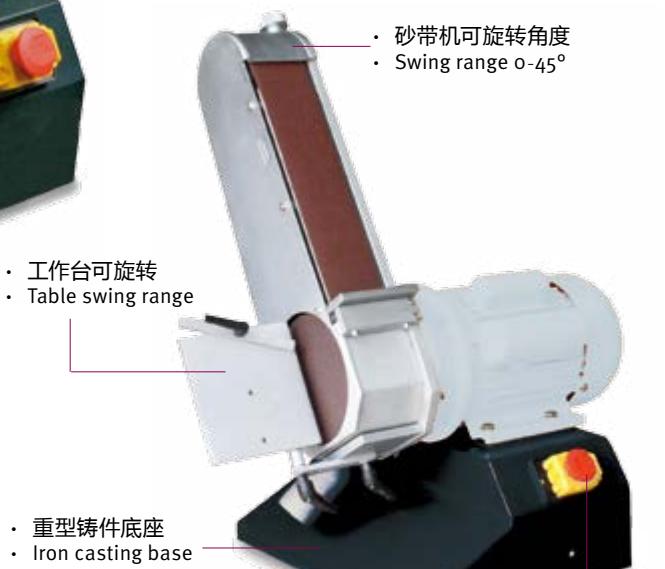
- 可转动磨削臂应用广泛
- 砂带张力可手工调整
- 很容易更换砂带
- 带有低压断路器和急停按钮的亲和性
- 安全开关 (IP 54)
- 标配排屑管口

Convincing arguments: quality, efficiency and price

- Universal applicable by rotatable grinding arm
- Sanding belt tension manually adjustable
- Sanding belt easily changeable
- User-friendly safety switch with low voltage circuit breaker and emergency stop switch
- Suction nozzle supplied as standard



DBS 75



机床技术参数 /Specification

型号 Model	DBS75
货号 Code No.	6407500
砂盘尺寸 Dimensions grinding disc	150mm
砂盘速度 Disc speed	1410 rpm
砂带尺寸 Dimension abrasive belt	75x1180mm
砂带速度 Belt speed	11m/s
工作台尺寸 Table size	85x215mm
电机功率 Motor power	1.1KW 380V or 220V/50Hz
排屑管内径 Nominal width suction pipe ID	47mm
排屑管外径 Nominal width suction pipe OD	50mm
重量 Weight	68/82kg
包装尺寸 Packing size	745x520x555mm

可选附件 OPTIONAL EQUIPMENT

1. 可选砂带 Accessories Sanding belt
 砂带尺寸 Sanding belt 75-1180;Grain 40
 砂带尺寸 Sanding belt 75-1180;Grain 60
 砂带尺寸 Sanding belt 75-1180;Grain 80
 砂带尺寸 Sanding belt 75-1180;Grain 120



2. 可选研磨盘 Accessories Abrasive disc
 研磨盘尺寸 Abrasive disc 150;Grain 40
 研磨盘尺寸 Abrasive disc 150;Grain 60
 研磨盘尺寸 Abrasive disc 150;Grain 80
 研磨盘尺寸 Abrasive disc 150;Grain 120



BELT SANDER

轻/重型工业砂带机 BSM75/150 BSM75L/150L

优质、高效、高性价比

- 节省时间，去毛刺，清洁焊缝
- 强功率的电机
- 33m/s 的高转速砂带
- 单边的轴承安装，可快速简易更换砂带
- 安全防护罩，防止火花溅出
- 带有低压释放器和急停按钮的安全开关（符合 IP 54 标准）
- 通过滚花螺母非常简单调节砂带的松紧

Convincing arguments: quality, efficiency and price

- . Time-saving deburring of edges
cleaning of welding seams
- . Powerful motor
- . High belt rotation speed of 33 m/s
- . One-sided bearing mounting facilitates the belt replacement
- . Safety guard reduces the flying of spark
- . User-friendly safety switch (IP 54 compliant) with low voltage release and Emergency-Stop switch
- . Adjustment of belt running without tools-adjustable only via knurled nut



BSM75/150



- 安全防护罩，防止火花溅出
- 单边轴承易换砂带



- 单只扳手完成所有安装
- 简单调整支撑杆的角度即可调整加工面
- 带有低压释放器和急停按钮的安全开关（符合 IP 54 标准）
- 通过滚花螺母来调整砂带松紧
- Operating tool in a handy fastener
- Simple adjustment of the angle of the workpiece support surface via clamping lever
- User-friendly safety switch according to IP 54 with low voltage release and Emergency-Stop button
- Adjustment of belt running without tools adjustable only via knurled nut

机床技术参数 /Specification

型号 Model	BSM75	BSM150	BSM75L	BSM150L
货号 Code No.	6207500	6215000	6207600	6215100
砂带尺寸 Dimension abrasive belt	75x2000mm	150x2000mm	75x2000mm	150x2000mm
磨削刀架尺寸 Grinding support size	75x575mm	150x575mm	75x575mm	150x575mm
砂带速度 Belt speed	33m/s	33m/s	33m/s	33m/s
排屑管内径 Nominal width suction pipe ID	Ø57mm	Ø57mm	Ø57mm	Ø57mm
排屑管外径 Nominal width suction pipe OD	Ø60mm	Ø60mm	Ø60mm	Ø60mm
电机功率 Motor power	3KW 380V/50Hz	4KW 380V/50Hz	3KW 380V/50Hz	4KW 380V/51Hz
净重 Net weight	98kg	125kg	73kg	90kg
包装尺寸 Packing size	1017x560x775mm	1017x635x775mm	1020x565x790mm	1020x640x785mm



- 从砂带机背部打开磨削面板可以砂磨长形工件

- The end-to-end face grinding surface which is open at the back is also best appropriate to work long workpieces



- 33米 / 秒高速砂带可快速移动工件

- 倾斜的工件支撑板可以让您在更加合适的角度磨削

- Rapid material removal due to high band speed of 33m/sec

- Inclinable workpiece support allows grinding at an adequate angle



- 胶带轮运转噪声低，并可消除砂带的打滑

- Gummed rolls which allow in quiet running and eliminate the slipping-through of the band



- 磨砂长形工件时，可是当打开砂带机背部的罩盖用以加工

- The end-to-end face grinding surface which is open at the back is also best appropriate to work long workpieces



可选床脚 OPTIONAL EQUIPMENT



BSM-75A



BSM-75B



BSM-75G



BSM-150A



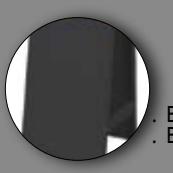
BSM-150B



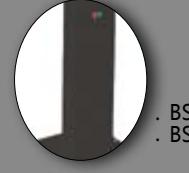
BSM-150G



BSM100x1220
BSM100x1524



BSM100x915
BSM100x1524



BSM100x2000GK
BSM180x2000GK

吸尘器 (可选)
Dust collectors(Optional)



急停开关 (可选)
Emergency switch(Optional)

BELT SANDER

砂带机 BSM 100x1000/120x1500



BSM 100x1000



BSM 120x1500

机床技术参数 /Specification

型号	Model	BSM 100x1000	BSM 120x1500
货号	Code No.	6210000	6212000
砂带工作台尺寸	Dimension abrasive belt table	240X105mm	480x125mm
砂带尺寸	Dimension abrasive belt	100x1000mm	120x1500mm
机头倾斜角度	Tilt angle of head	90°	90°
支架高度	Stand height	750mm	750mm
机器重量	Weight of machine	49kg	57kg
底座尺寸	Dimension stand	800x500mm	800x500mm
底座工作台尺寸	Dimension stand table	300x400mm	300x400mm
双速电机	Dual-speed motor	400V/50HZ/3PH, 1.1/1.5KW	

TUBE GRINDING MACHINE

磨 管 器 TGM-3

优质、高效、高性价比

- 高转速皮带
- 有一个排尘口
- 强功率电机

Convincing arguments: quality, efficiency and price

- High belt speed
- There is an outlet for exhaustion
- Powerful motor



机床技术参数 /Specification

型号	Model	TGM-3
货号	Code No.	6703000
皮带尺寸	Belt dimension	100x2000mm
电机功率	Motor rating	3KW
转速	Speed	2905rpm
皮带转速	Belt speed	30m/s
磨管范围	Grinding area	Φ20-76mm
可调角度	Adjustable slide	30°-90°
外形尺寸	Dimension	1200x600x1000mm
包装尺寸	Packing size	1230x760x650mm
净/毛重	NW/GW	145/177kg

细节展示 Details



- 斜向上能够快速更换滚轴
Bevel up to quickly replace the grinding roller

- 独特的床身设计
Original design of machine body

- 可旋转的快速夹紧装置
Rotating clamping device

- 操作手柄，可快速移动工件
Operating handle, can move workpiece quickly

DRILL GRINDING MACHINE

磨刀机 GH IOT/GH 15T

优质、高效、高性价比

- 此款磨刀机 - 是研磨高速钢或碳化合金材质麻花钻的理想工具
- 优质、高效与性价比：
- 易操作，可用于高精度低成本研磨双刃麻花钻 Ø2-mm-13mm (GH10T) 和 Ø2-mm-13mm (GH15T)
- 全新钻头 - 清洁，快速，好用
- 移动方便
- 金刚石砂轮，更加耐用，完美表现
- 床身装配 ER 弹簧夹头
- 通过移动弹簧夹头座就可磨削钻头

Convincing arguments: quality, efficiency and price

- Easy to use for precise and cost-effective grinding of double-edged twist drill Ø 2 mm - 13 mm (GH10T) and Ø 2 mm - 13 mm (GH15T)
- Drill bits with no previous experience - clean, fast and well
- Easy to transport.
- Diamond grinding stone with a long life for a perfect finish.
- Fully equipped with ER collets inside the machine
- The cutting edges of the drill can be fixed in a collet holder by means of the adjustment tool in a defined position and inserted in a predetermined order into the grinding openings to grind the cutting edges with a short rotational movement of the collet holder.



GH 15T



GH 10T

机床技术参数 /Specification

型号	Model	GH 10T	GH 15T
货号	Item No	6601080	6601580
电器容量	Electrical connection		
电压	Motor	180 W 230 V 1 Ph ~50 Hz	450 W 230 V 1 Ph ~50 Hz
参数	Technical data		
转速	Speed infinitely variable	5'300 rpm	3'000 rpm
刀头转动角度	Angle of the head sharpening	90° - 135°	90° - 145°
研磨能力	Grinding capacity drill	Ø 3 mm - Ø 13 mm	Ø 3 mm - Ø 30 mm
尺寸	Dimensions		
长	Length	330 mm	490 mm
宽	Width	190 mm	280 mm
高	Height	200 mm	310 mm
净重	Net weight	9 kg	33 kg

DRILL GRINDING MACHINE

磨刀机 GH 20T

优质、高效、高性价比

- 通过各种旋转和设置带来多功能用途
- 可磨削冲头，麻花钻，电极棒，车刀，车床顶尖，等等
- 结实的床身和震动驱动的精密磨销主轴带来的高精度
- 易处理，易操作
- 分度头带 24 锁紧位置和 5C 弹簧夹头
- 可调装置
- 通过回转和设置进行雕刻功能（圆柱形，同心，锥形的）
- 带卤素灯（仅限于单相）

Convincing arguments: quality, efficiency and price

- Universal use through versatile swivel and setting
- For grinding of punch, twist drill, electrodes, lathe tools, lathe centers, etc.
- High precision due to the robust body and machine vibration driven precision grinding spindle
- Easy handling and operation
- Index head with 24 locking positions and 5C collet
- adjustable stripping device
- Many slewing and settings for making engraving (cylindrical, concentric, tapered)
- Includes halogen light (only 1ph)



GH 20T

机床技术参数 /Specification

型号	Model	GH 20T
货号		6602180
速度	Speed	
砂轮转速	Speed of grinding wheel, diamond	5.000 rpm
研磨转速	Grinding speed	max. 35 m/s
电机转速	Speed Motor	2.800 rpm
行程	Travels	
刀架行程	Tavel tool holder	140 mm
刀架微调	Fine-tuning tool holder	18 mm
纵轴微调	Fine-tuning longitudinal axis	6 mm
可调角度	Adjustable angle	
垂直/向后	Vertical / back	0° - 40°
水平/研磨锥度	horizontal / taper grinding	0° - 180°
负角	negative angle	0° - 52°
可调角度	Angle adjustment	15° 180°
研磨设备	Grinding apparatus	
铣刀	Cutting mill	bis Ø 12 mm (delivery)
微调工具	Turning Tool	bis 21 x 21 mm
钻头	Drill	bis Ø 12 mm
立铣	End mill	bis Ø 12 mm (delivery)
筒架	Collet holder	
Typ 5C	Typ 5C	Ø 1 mm - 16 mm
尺寸	Dimensions	
长x宽x高	Length x Width x Height	550x450x470 mm
净重	Net weight	46 kg



Spare wheel

corundum	310 0128
Diamond	310 0129

Standard accessories:

- 5 pcs collet chuck (4, 6, 8, 10, 12 mm)
- Corundum grinding wheel Ø 100 x 50 x Ø 20 mm
- Diamond grinding wheel Ø 100 x 50 x Ø 20 mm
- Belts
- Operating tool

DUST COLLECTION

砂轮机吸尘器 GU 1/GU 2

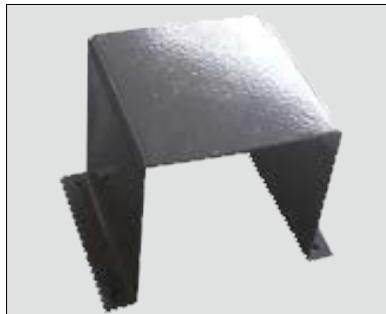


优质、高效、高性价比

- 底盘坚固
- 床脚内置排风管，占据空间小
- 用于 GU、GU-S 等机器
- 静音效果好
- 带自动开关
- 带工作灯支架

Facts that impress in terms of quality, performance and price

- Sturdy chassis
- Cyclone suction integrated in the substructure, characterized small footprint
- For the equipment and GU GU-S
- silenced
- automatic switch
- lamp holder



工作灯支架 /lamp holder



金属抽屉 /swarf drawer



型号 Model	GU 1	GU 2
货号 Item No	61601000	6160200
电压 Electrical connection	230 V/1 Ph	400V/3Ph
电机功率 Motor power	1.3 kW	1.3KW X 2(two motor)
转速 Speeds	29000 rpm	29000 rpm
包装尺寸 Length x width x height	477X340X805 mm	525X440X815 mm
重量 Net weight	40 kg	60kg

GRINDER

砂轮机 GU 15/18/20/25

NEW**优质、高效、高性价比**

- 厚重耐用工业设计的电机，免维护，可持续使用
- 罩壳材质采用铸造铝
- 做过动平衡的转子和高品质滚珠轴承带来更长使用寿命和静音效果
- 每边砂轮上的安全防护罩，防止火花溅出
- 可视护镜采用防碎材质，强度更高
- 采用减振橡胶垫
- 标配粗砂轮片和精砂轮片 (K36/K60)

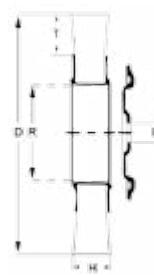
Facts that impress in terms of quality, performance and price

- Heavy, durable industrial design with maintenance-free motor for continuous use
- Housing made of strand cast aluminium
- Long service life and quiet action thanks to balanced rotor with quality ball bearings
- Spark guard on each grinding wheel reduces flying sparks
- Viewing glass made of break-proof material
- Vibration-damping rubber feet
- Coarse and fine grinding disc (K36/K60) included in standard scope of delivery



- 工作支架 · Workpiece support
- 坚固的 · Sturdy
- 可调节的 · adjustable

型号	Model	GU 15	GU 18	GU 20 / GU 20Vario	GU 25 / GU 25Vario
货号	Item No	6161500	6161800	6162000/6162100	6162500/6162600
电压	Electrical connection	230 V/1 Ph ~50 Hz	230 V/1 Ph ~50 Hz	230 V / 400 V	400 V/3 Ph ~50 Hz
电机功率	Motor power	450 W	450 W	600 W	1.5 kW
砂轮尺寸	Dimensions	Ø 150 x 20 mm Drill hole Ø 16 mm	Ø 175 x 25mm Drill hole Ø 32 mm	Ø 200 x 30 mm Drill hole Ø 32 mm	Ø 250 x 40 mm Drill hole Ø 32 mm
砂轮最大转速	Speeds	2850 rpm	2850 rpm	2850 rpm	2850 rpm
砂轮转速	Speeds Vario	/	/	800 - 2850 rpm	800 - 2850 rpm
包装尺寸	Length x width x height	389 x 206 x 266 mm	389 x 233 x 279 mm	495 x 261 x 331 mm	471 x 319 x 365 mm
净重	Net weight	10.7 kg	12.3 kg	18.5 kg	32.5 kg

该磨床可以
带钢刷子This grinder can
strip steel brush

Art no.	D	mm/inch	B	R	T	H	RPM max.	Qty	Meas
9231	150	6"	32mm with 1/2" 5/8" 3/4" 1" adaptors	30.2	30	20	6000	40	34X34X37
	175	7"	32mm with 1/2" 5/8" 3/4" 1" adaptors	30.2	30	20	6000	40	34X34X37
	200	8"	32mm with 1/2" 5/8" 3/4" 1" adaptors	30.2	48	25	4500	20	43X40X23
	250	10"	32mm with 1/2" 5/8" 3/4" 1" adaptors	30.2	50	30	4500	20	53X27X42

Universally deployable wet/dry grinding machine

万能可伸展式干湿两用磨刀机 NTS 251

NEW

优质、高效、高性价比

- 此款磨刀机是 DIY 爱好者和工艺专家的理想工具
- 可研磨、打磨，干湿两用
- 多种夹具可用于各种道具
- 采用第三方夹具，可进行高度调节夹持
- 特别开发的防水砂轮，更加耐用
- 加水使用时，仅 90rpm 低速运行，研磨时不会产生热，避免影响刀具硬度
- 锁定式启停开关，带急停开关
- 带皮革研磨盘、万能支架和角度设置表
- 移动方便

Convincing arguments: quality, efficiency and price

- Ideal for DIY enthusiast and crafts professionals
- For wet and dry sanding and grinding
- Many holding devices for various tools available
- Third-party holding devices can be used on the height-adjustable clamp
- Specially developed, water-resistant grinding disk with a long service life
- Due to the low speed of just 90 rpm in combination with water, no heat is generated during grinding; this avoids affecting the tool hardness
- Lockable on/off switch with emergency stop
- Incl. leather honing disk, universal holder, and angle setting gauge
- Easy to transport



型号	Model	NTS 251
货号	Item No	6652500
技术参数	Technical data	
砂轮参数	Grinding stone dimensions	Max. Ø 250 x 50 mm
皮革研磨盘参数	Honing disk dimensions	Max. Ø 220 x 30 mm
转速	Speed	90 rpm
电机功率	Motor output	200 W
电压	Electrical connection	230 V/50 Hz
重量	Weight	16 kg
外形尺寸	Dimensions (L x W x H)	340 x 280 x 460 mm



角度设置表
Angle setting gauge

附件	Accessories
砂轮	Grinding stone Ø 245 x 50 mm
皮革研磨盘	Leather honing disk Ø 220 x 30 mm



夹具导轨 Holding device slide rail



磨削刀具 Grinding cutting tools



研磨斧头 Grinding hatchets and axes



研磨圆凿 Grinding gouges



研磨刨刀 Grinding planer knives



研磨刀具装置 Grinding device for knives



修整砂轮 Dressing the grinding stone

(粗 / 细) 修整砂轮
(Rough/fine) dressing of the grinding stone

研磨圆刀片 Grinding round blades

0-30°角度的研磨
Grinding at angles between 0-30°

附件	Accessories
准备斧头/切削刀具等	Preparing axes/cutting tools, etc.
圆凿夹具	Jig set for gouges
机床刨刀夹具	Machine planer blade jig *
刀片夹具	Jig for blades *
圆刀片夹具	Jig for round blades
多功能研磨工具,0-30°	Multi-purpose grinding device, 0-30° *
研磨工具导轨	Slide rail for grinding devices
修整金刚石及夹具	Dressing diamond with holding device *
(粗/细)修整砂轮	Dressing grindstone rough/fine

带 * 的配件只能与夹具导轨结合使用

* This accessory can only be used in combination with slide rail

1. 检查并判定裁切角
Step 1: Check and determine the cutting angle.2. 设置裁切实际角度
Step 2: Setting the measured angle of cut.3. 设置裁切角度的匹配高度
Step 3: Set the matching height for the cutting angle.

DRILL BIT MACHINE

磨刀机 GQ-D 13

优质、高效、高性价比

- 经济、方便地磨双刃麻花钻
- 简单操作无需磨钻头经验，干净、快捷且精度好
- 运输便捷
- 砂盘更换便捷
- 顺向磨削，方便操作
- 通过凸轮自动磨削尖端形状
- 坚固的塑料罩壳及防滑底座
- 金刚石研磨使用寿命长且表现优异

Convincing arguments: quality, efficiency and price

- Easy to operate for inexpensive grinding of twist drill bits with two cutting edges
- Drill bit grinding without prior experience - clean, fast and precise
- Easy to transport
- Easy replacement of the grinding disc
- Positively-driven sharpening action, thus easy to operate
- Automatic grinding of the tip geometry thanks to cam
- Robust plastic housing with anti-slip base
- Diamond grinding stone with long service life for the perfect grind



GQ-D 13



麻花钻调节

- 将麻花钻校准到合适角度
- Adjustment of twist drill**
- Twist drill is aligned in the overhang and in the appropriate angle



重磨麻花钻

- 通过一步一步轻微旋转
- Regrind twist drill**
- by slight rotation from stop to stop

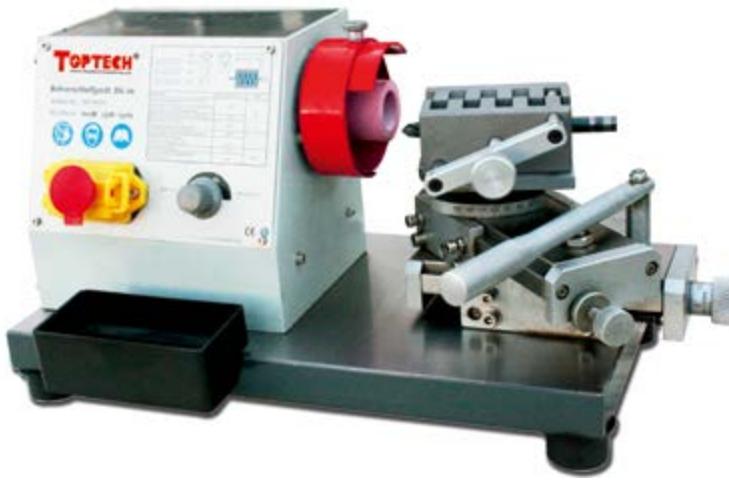


减少钻头的尖刃

- 也是通过一步一步轻微旋转
- Reducing the chisel edge**
- also by slight rotation from stop to stop

机床技术参数 /Specification

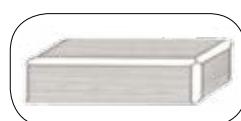
型号	Model	GQ-D 13
货号	Item No	6601300
电器容量	Electrical connection	
电压	Motor	80 W 230 V 1 Ph ~50 Hz
参数	Technical data	
转速	Speed infinitely variable	4200 rpm
砂轮	Grinding wheel	Ø 78 mm
研磨能力	Grinding capacity drill	Ø 3 mm - Ø 13 mm
尺寸	Dimensions	
长 x 宽 x 高	Length x Width x Height	220 x 200 x 160 mm
净重	Net weight	2.5 kg

DRILL BIT MACHINE**磨刀机 DG 20**

DG 20

机床技术参数 /Specification

型号	DG20
Model	
货号	6602000
Code No.	
转速	1400-7600rpm
Continuous speed	
磨削速度	16m/s
Grinding speed	
磨削直径能力	3-20mm
Grinding diameter capacity	
磨削角度	90°-150°
Bit grinding angle	
砂轮外径	Ø40mm
Cup wheel outside-Ø	
砂轮内径	Ø26mm
Cup wheel inside-Ø	
砂轮螺孔	M10
Cup wheel thread-Ø	
砂轮内腔深度	22mm
Cup wheel embedding	
尺寸	225x490x240mm
Dimension (L x W x H)	
净重	23kg
Net weight	
电机功率	600W 230V / 50Hz
Motor power	
包装尺寸	510 x 280 x 270mm
Packing size	

CHAMFER MACHINE**倒角机 MR-R300**R300 型 : 15° ~ 45° 直角倒角
Chamfer straight line 15° ~ 45°R 角倒角
Chamfer R angle**机床技术参数 /Specification**

型号	Model	MR-R300
货号	Item No	6230000
倒角范围	Chamfering range	0-9 mm
倒角角度	Chamfering angle	15° ~ 45°
电源	Power	380V 250W
回转速	Speed	2800 rpm
包装尺寸	Dimension	380 x 240 x 245 mm
重量	Weight	12 kg

Velcro support



Pack of 5
pcs

Accessories	Item No
Velcro support	335 7801

Grinding disks - Velcro fastener*

Grain 40	335 7854
Grain 60	335 7856
Grain 80	335 7858
Grain 100	335 7860
Grain 120	335 7862
Grain 150	335 7865

*Packing and price unit 5 pcs.

Grinding belts

Size: 75 x 1'180 mm

Grain 40	335 7622
Grain 60	335 7624
Grain 80	335 7626
Grain 120	335 7628



Grinding disc

Ø 150 mm

Grain 40	335 7832
Grain 60	335 7834
Grain 80	335 7836
Grain 120	335 7838



Velcro disk	335 7802
-------------	----------

for grinding disk

* Packing and price unit 5 pcs.

Grinding belts BSM 75	Item No
Grain 40	335 7642
Grain 60	335 7644
Grain 80	335 7646
Grain 120	335 7648

Grinding belts BSM 150	Item No
Grain 40	335 7672
Grain 60	335 7674
Grain 80	335 7676
Grain 120	335 7678



Wall bracket

310 7050

- Coolant tray

- Dimensions L x W x H: 332x300x230 mm



Machine substructure

310 7100

- Dimensions L x W x H: 320x270x820 mm



Machine substructure SSM

310 7101

- Shelf and coolant tray

- Dimensions L x W x H: 345x300x785 mm



Machine substructures for SM

310 7100

- for SM 150 to SM 250

- L x W x H: 320 x 270 x 820 mm

SSM

310 7101

- for SM 150 to SM 250

- Shelf and coolant tray

- L x W x H: 345 x 300 x 785 mm

SM 300

310 7103

- for double grinder up to SM 300

- Shelf and coolant tray

- L x W x H: 505 x 600 x 790 mm



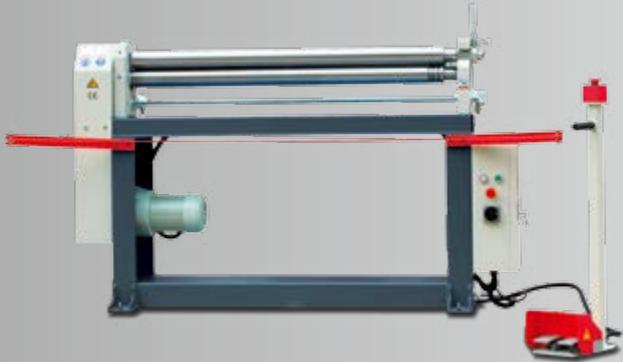
Fig.: SM



Fig.: SSM



Fig.: SM 300



G1

Metal sheet working Machine

METAL SHEET WORKING MACHINE

FP30/RB30 G3



RBM 610-8 G4



RBM1300-15E G5



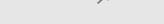
RBM 30HV G6



MS125/150/200/300 G7



DDP10/20/30/50 G8



SAR750/1000/1320 G9



ESF G11



W 62Y G12



W67K G13



W67Y(EPB) G15



FSB 1270/2450 G17



QH11D G18



QC 12Y G19



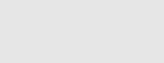
QC 12K G21



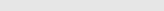
HPS G23



HSP G25



HSPD G26



HWP G27

Vice and Table G29

B.TOOL kit 63pcs..... G35

MANUAL BENDING MACHINE

手 动 折 弯 机 FP 30

机床技术参数 /Specification

型号 Model	FP30
产品编号 Code No.	7200300
适用最大厚度 Max.plate thickness	2mm
适用最大长度 Max.plate length	300mm
净重 / 毛重 NW/GW	10.5/11kg
外形尺寸 Dimension	340x50x635mm
包装尺寸 Packing size	445x270x290mm



MANUAL ROLLING MACHINE

手 动 卷 板 机 RB 30

机床技术参数 /Specification

型号 Model	RB30
货号 Code No.	7300300
适用最大厚度 Max.plate thickness	2mm
适用最大长度 Max.plate length	300mm
适用最大直径 Max.diameter	Ø5mm
净重 / 毛重 NW/GW	11/12kg
外形尺寸 Dimension	495x215x95mm
包装尺寸 Packing size	465x275x140mm



MANUAL ROLLING MACHINE

手动卷板机 RBM 610-8



优质、高效、高性价比

- 3卷不对称辊的卷板机
- 高强度钢轧辊
- 顶辊固定，后辊及下辊可调
- 电动卷板(RBM1300-15E)
- 标准系列的线芯槽
- 打开凸轮锁使上辊向外摆动
- 可加工圆锥形工件

Convincing arguments: quality, efficiency and price

- Asymetrical roll bending machine with 3rolls
- High strength steel rolls
- Fixed top roller,adjustable lower and rear rollers
- Worm gear and motor for prebending(RBM1300-15E)
- Standard series wire core groove
- Top roll swings out across cam lock
- Supplied with conical bending feature



机床技术参数 /Specification

型号	Model	RBM 610-8
货号	Item No.	7306100
最大卷板厚度	Max rolling thickness	0.8mm
最大卷板长度	Max rolling length	610mm
轧辊直径	Roller diameter	Φ40
工件尺寸	Workpiece diameter(min)	Φ60
轧辊转速	Rolling speed	-
电机功率	Motor power	-
净重/毛重	NW./GW.	46/49kg
包装尺寸	packing size	910x400x400mm



RBM610-8

MOTOR RISE ROLLING MACHINE

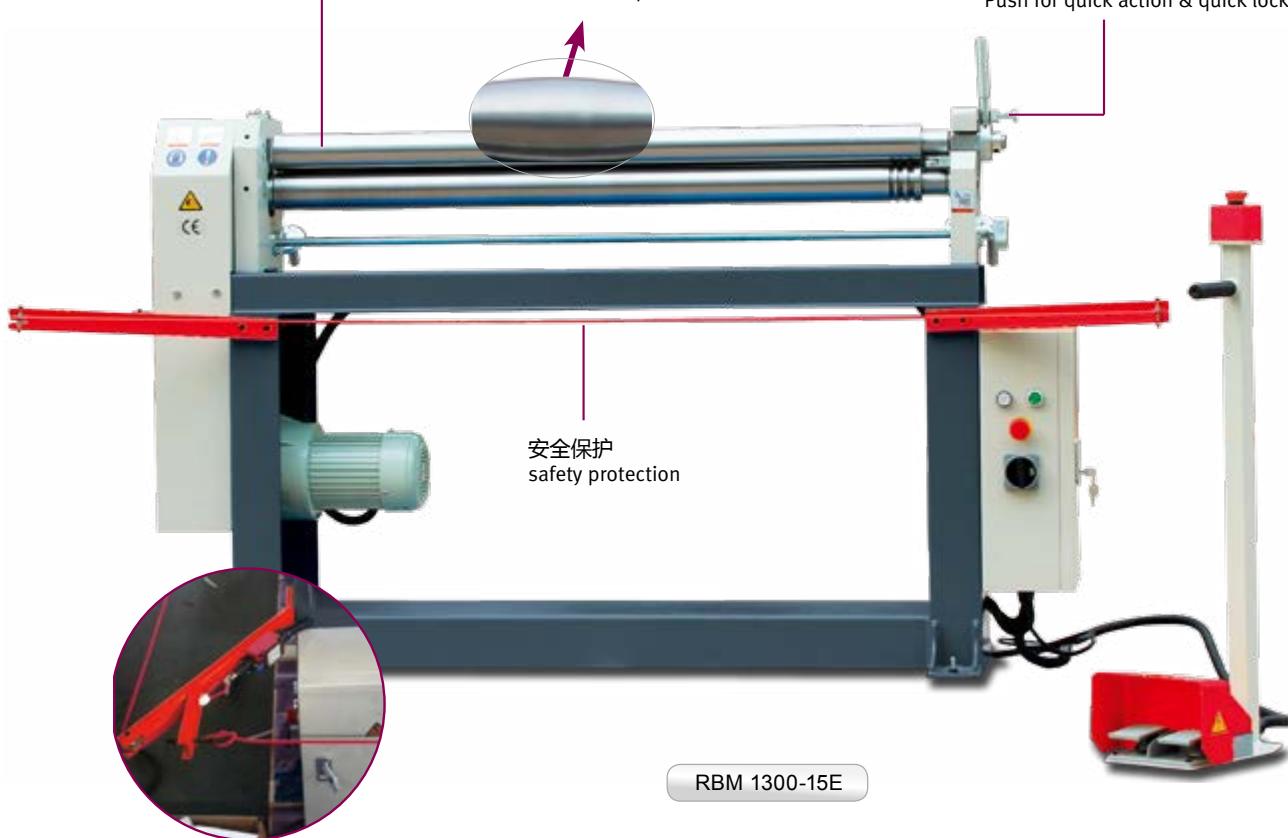
电动卷板机 RBM 1300-15E



Φ75mm的硬化扎圆钢
Hardened rolling bar Φ75mm

上辊由数控车床加工具有挠度补偿
Upper Roll made by CNC lathe with
Deflection compensation

快速启动，快速锁紧按钮
Push for quick action & quick lock



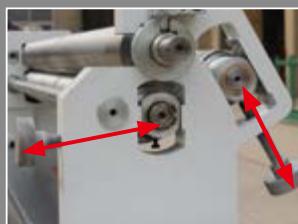
机床技术参数 /Specification

型号	Model	RBM 1300-15E
货号	Item No.	7321300
最大卷板厚度	Max rolling thickness	1.5mm
最大卷板长度	Max rolling length	1300mm
轧辊直径	Roller diameter	Φ75
工件尺寸	Workpiece diameter(min)	Φ115
轧辊转速	Rolling speed	3.6m/min
电机功率	Motor power	0.75KW/400V
净重/毛重	NW./GW.	350/385kg
包装尺寸	packing size	1850x570x1200mm

细节展示 Details



- 电动升降及轧辊平衡系统
- Motor rise and rolling bar balance system



- 快速启动
- 工作时可轻易调整
- Quick action for take out parts
- Easy adjustment for working



- 工件样品
- Workpiece sample

ELECTRIC ROUND BENDING MACHINE

电动卷圆机 RBM 30HV

NEW

- To mould in and to crush bearings, mandrels, bushings, spindles, pins
- Stable construction
- Body made of high-grade grey casting
- Variably adjustable lever rod
- Quadruple positionable base plate
- To be fixed on a bench
- 4 different types

- 用于成模和压轴承、芯棒、轴套、主轴、定位销等
- 稳定的结构
- 机器由高级灰口铸铁制造
- 杠杆臂可以各种调节
- 四方定位底座
- 固定在工作台上
- 4 种不同类型



RBM 30HV

机床技术参数 /Specification

型号	Model	RBM30HV
最大工件尺寸	Max.capacity	7620300
空心管	Pipe steel	Φ50x2mm
方管	Square tube steel	40x40x3mm
实心管	Round steel	Φ30mm
扁钢	Flat steel	50X15mm
辊轴尺寸	Diameter of roller shaft	Φ30mm
弯管速度	Rotate speed	9rpm
电机功率	Motor Power	1.1kW
外形尺寸	Overall dimension	1000x620x1400mm
净重/毛重	NW./GW.	260/280kg
包装尺寸	Packing size	1120x690x1170mm

卧式加工 Work for Horizontal



MANUAL SHEARING MACHINE MS

手动剪板机 MS 125/150/200/300



MS 125



MS 150



MS 200



MS 300

机床技术参数 /Specification

型号 Model	MS125	MS150	MS200	MS300
货号 Code No.	7101250	7101500	7102000	7103000
刀口长度 Length of blade	120mm	150mm	200mm	300mm
适用最大厚度 Max.plate thickness	3mm	3mm	3mm	3mm
适用最大管径 Max.diameter	Ø10mm	Ø13mm	Ø13mm	Ø14mm
净重 / 毛重 NW/GW	8.7/10kg	10.7/12kg	18.5/21kg	23/25kg
外形尺寸 Dimension	150x100x940mm	330x120x972mm	395x150x1000mm	495x150x1350mm
包装箱尺寸 Packing size	240x145x305mm	380x145x350mm	405x165x420mm	430x160x515mm

ARBOR PRESS

手动压力机 DDPIO/DDP20/DDP30/DDP50

- To mould in and to crush bearings, mandrels, bushings, spindles, pins
 - Stable construction
 - Body made of high-grade grey casting
 - Variably adjustable lever rod
 - Quadruple positionable base plate
 - To be fixed on a bench
 - 4 different types
- 用于成模和压轴承、芯棒、轴套、主轴、定位销等
 - 稳定的结构
 - 机器由高级灰口铸铁制造
 - 杠杆臂可以各种调节
 - 四方定位底座
 - 固定在工作台上
 - 4 种不同类型



DDP

机床技术参数 /Specification

型号	Model	DDP 10	DDP 20	DDP 30	DDP 50
产品编号	Item No	7400018	7400028	7400038	7400058
技术参数	Technical data				
工件最大高度	Height of workpiece max.	123 mm	195 mm	310 mm	485 mm
行程	Throat	95 mm	135 mm	160 mm	226 mm
尺寸	Dimension				
外形尺寸	Length x width x height	340x280x150mm	450x180x460 mm	500x240x640 mm	710x340x920mm
悬臂尺寸	Ram size (L x W x H)	25 x 25 x 245 mm	31 x 31 x 336 mm	40 x 40 x 455 mm	50 x 50 x 646 mm
净重	Net weight	15.5 kg	32 kg	55 kg	154 kg
标准附件	Standard equipment	Quadruple positionable plate四方定位块			

Force effect		DDP 10		DDP 20		DDP 30		DDP 50	
Manual force	F1	392.4 N (40 kg)	589 N (60 Kg)	392.4 N (40 kg)	589 N (60 Kg)	392.4 N (40 kg)	589 N (60 Kg)	392.4 N (40 kg)	589 N (60 Kg)
Long lever arm	S1	305 mm		405 mm		540 mm		850 mm	
Force effect	F2	7480 N (763 Kg)	11220 N (1143 kg)	8364 N (853 kg)	12555 N (1280 kg)	7705 N (786 kg)	11566 N (1179 kg)	10251 N (1045 kg)	15372 N (1567 kg)

SHEET METAL WORKING MACHINE 3 IN 1

卷管、折弯、剪切三合一机床 SAR750/1000/1320

优质、高效、高性价比

- 稳定的现代设计钢结构
- 高强度剪切刀口，可以分段剪切，
- 弹簧下压与夹紧，可移动分段式剪切刀口
- 左右两侧加长手柄杆
- 长形高强度铸件工作台
- 加长型压板便于加工大尺寸板材

Convincing arguments: quality, efficiency and price

- Modern design of stable steel structure
- High-grade cant-off jaws Segment-divided cant-off bar, holding down clamp with spring, Removable segment of the cant-off jaw provided levers
- Operation by two laterally provided levers
- Long supporting surface
- Extendable support arm for safe putting on of the large size sheet metals



床脚 Stand

- FS750-1 for SAR750
- FS1000-1 for SAR1000
- FS1320-1 for SAR1320

机床技术参数 /Specification

型号	Model	SAR750	SAR1000	SAR1320
货号	Code No.	7160750	7161000	7161320
最大卷管宽度	Max.width of material	763mm	1016mm	1320mm
最小卷管直径	Diameter bending min.	48mm	48mm	62mm
最大卷管直径	Diameter bending max.	unlimited(无限)	unlimited(无限)	unlimited(无限)
卷管钢板厚度	Steel plate ST37 up to	1mm	1mm	1mm
卷管不锈钢厚度	Stainless steel up to	1mm	1mm	1mm
卷管铝 / 铜厚度	Aluminium/copper up to	2mm	2mm	2mm
卷管黄铜厚度	Brass up to	1mm	1mm	1mm
卷管金 / 银 / 马口铁厚度	Gold/silver/tinplate up to	2mm	2mm	2mm
最大折弯宽度	Max.width of material	763mm	1016mm	1320mm
折弯钢板厚度	Steel plate up to	1mm	1mm	1mm
折弯铝 / 铜厚度	Aluminium/copper up to	2mm	2mm	2mm
折弯段数	Number of segments	6	7	8
最大剪切宽度	Max.width of material	763mm	1016mm	1320mm
剪切钢板厚度	Steel plate up to	1.5mm	1.5mm	1.5mm
剪切不锈钢厚度	Stainless steel up to	0.7mm	0.7mm	0.7mm
折弯铝 / 铜厚度	Aluminium/copper up to	1mm	1mm	1mm
尺寸	Dimension (L X W X H)	980x370x550mm	1335x455x620mm	1700x490x710mm
净重 / 毛重	N.W./G.W.	251/260kg	280/308kg	420/476kg
包装尺寸	Packing size	1182x562x812mm	1440x570x835mm	1700x610x920mm

操作展示 Operating


- 按照材料厚度比例调整螺钉
- 将工件插入二压辊中间夹紧，旋转操作杆使之卷管
- Setting screw for the material thickness with scaling
- Ground bending rolls with wire insertion groove on the lower and front



- 高强度剪切刀口，可以分段剪切
- 弹簧下压与夹紧，可移动分段式剪切 40/50/65/100/180/255/380mm
- High-grade cant-off jaws Segment-divided cant-off bar
- Holding down clamp with spring Removable segment of the cant-off jaw 40 / 50 / 65 / 100 / 180 / 255 / 380mm



- 加长力臂压杆，操作省力
- 前部可伸展支撑臂，后部可安放材料
- Large, adjustable and easy-to-use leverarms
- Extendable supporting arm in the front and rear for safe putting on of material

E-TYPE PAN BRAKE

手动折边机 ESF 1020/ESF 1260/ESF 1500/ESF 2060

优质、高效、高性价比

- 各种型材折边
- 使用压缩弹簧，平衡刀模
- 使用凸轮锁紧和缓冲弹簧
- 弓型手柄方便折边杠转动
- 刻度达 135°的角度折边
- 分段式刀模

Convincing arguments: quality, efficiency and price

- For formed component bending
- Compression spring for top beam counterbalance
- Cam lock and rebound spring for bending beam counterbalance
- Bow handle for bending beam rotation
- Adjustable bending angle stop with scale up to 135°
- Segmented top beam tools



ESF 1020A

B type with dividing tooling
分离式下刀口

ESF 1020B

机床技术参数 /Specification

型号 Model	ESF1020(A)/ESF1020(B)	ESF1260(A)/ESF1260(B)	ESF1500(A)/ESF1500(B)	ESF2060
货号 Code No.	7201020 / 7201021	7201260 / 7201261	7201500 / 7201501	7202060
折弯长度 Bending length	1020mm	1260mm	1500mm	2060mm
低碳钢折弯厚度 Folding thickness for mild steel	2mm	2mm	1.6mm	1.6mm
最大折弯角度 Max. folding angle	135°	135°	138°	138°
外形尺寸 Dimension	1400x950x1200mm	1600x950x1200mm	1900x950x1200mm	2400x950x1200mm
净重 Net weight	260kg	320kg	450kg	650kg

HYDRAULIC PLATE PRESS BRAKE

液压折边机（数显） W 62Y

优质、高效、高性价比

- 全钢板焊接结构，经振动时效处理，变形量小，保证精度。
- 采用液压驱动，能耗低，维修简易，经久耐用。
- 上压模分段组合，适合于盘、盒类

Convincing arguments: quality, efficiency and price

- The machine tool is full welded-steel plate construction. After vibration aging treatment, the deformation is minor so that the accuracy can be ensured.
- Machine is hydraulically powered. It is low energy consumption, easy to maintenance and durable in use

- 工件的制作，
- 开口高度达成协议 110mm
- 折弯角度和后挡料为数控系统控制，快速、准确(可选)

标准配置：

- OMRON 光电开关
- 电动后挡料，
- 液压系统 (海德克台湾)
- 电器元件 (西门子和施耐德)

Standard Configuration:

- With OMRON optoelectronic switch, rear light barrier for operating safety
- Power backstop
- Heidecke Hydraulic system made in Taiwan
- With Hilary Schneider or Siemens electronic



机床技术参数 /Specification

W62Y-4x1320

产品型号	产品编号	最大可折板厚度	最大可折板宽度	折边回转角度	上梁最大开口	主电机功率	铁托包装尺寸	净 / 毛重
Model No.	Item No.	Max folding thickness	Max. folding width	Evolving angle of the bending beam	Max. lift of the upper beam	Main motor power	Packing size L x W x H(mm)	N.W/G.W(Kg)
W62Y-2×2500	7231010	2mm	2500mm	120°	110mm	2.2KW	3300×850×1550	1700/1900
W62Y-3×2500	7231020	3mm	2500mm	120°	110mm	4KW	3450×1130×1800	3100/3300
W62Y-3×3200	7231030	3mm	3200mm	120°	110mm	4KW	4150×1130×1800	3800/4000
W62Y-3×4000	7231040	3mm	4000mm	120°	110mm	4KW	4900×1150×1900	6100/6300
W62Y-4×1320	7231050	4mm	1320mm	120°	110mm	4KW	2270×1130×1800	1800/2000
W62Y-4×2000	7231060	4mm	2000mm	120°	110mm	5.5KW	2900×1130×1700	2500/2700
W62Y-5×2500	7231070	5mm	2500mm	120°	110mm	5.5KW	3500×1130×1800	4000/4200
W62Y-5×3200	7231080	5mm	3200mm	120°	110mm	5.5KW	4150×1130×1900	5500/5700

CNC HYDRAULIC PLATE PRESS BRAKE

数控液 压 折 弯 机 W 67K

优质、高效、高性价比

- 全钢焊接结构，振动消除应力，机械强度高、刚性好。
- 液压上传动，平衡可靠。
- 机械挡块，扭轴同步，精度高。
- 后挡料距离、上滑块行程，电动调节、
- 手动微调装置、数字显示。
- 上模配有挠度补偿机构，250 吨和长度 4000mm 以上机床可采用下挠度补偿机构。
- 新型前托料（左右上下移动）。

标准配置：

- 数控系统 E200(伺服控制)，悬挂臂安装
- 后挡料，滚珠丝杠（台湾 ABBA ） + 直线导轨
- 二选一：1. 后防护为防护门
2. OMRON 光电开关
- 液压系统（力士乐）
- 电器元件（西门子和施耐德）

可选附件

- PRG920 数控
- DA41 数控
- DA51 数控
- 安全光幕

Convincing arguments: quality, efficiency and price

- Steel -welded construction ,vibration to eliminate stress, with high strength and good rigidity .
- Hydraulic top-drive, steadiness and reliability.
- Mechanical stop, steel torsion bar to maintain synchronization, high precision.
- Motorized -adjusting device of backgauge and rams stroke ,fine adjusting by handwheel ,numerical display.
- Deflection compensation unit installed on the top die.
- Manual crowned bottom die holder is adopted for the machine above 250ton strength 4000mm.
- New material holding device (X,Z axis moving easily)

Standard Configuration:

- With E200 positioning controller
- Rear stop with retract function to avoid collisions during bending (With ABBA ball screw made by Taiwan +With linear guide)
- Alternative: 1.Rear light barrier for operating safety
2.OMRON optoelectronic switch
- Lux hydraulic system
- With Hilary Schneider or Siemens electronic

OPTIONAL EQUIPMENT

- PRG920 CNC system
- DA41 CNC system
- DA51 CNC system
- Light curtain for operating safety



W67K-30/1320



机床技术参数 /Specification

产品型号	产品编 号	公称力	工作台宽度	主柱间距离	喉口深度	滑块行程	工作台面 与滑块	滑块行程调 节量	主电机功 率	铁托包装尺寸	净 / 毛重
Model No.	Item No.	Nominal force	Length of working tabel	Distance between frames	Throat depth	Ram travel	Max open height	Ram travel adjustment	Main motor(KW)	Packing size (mm)	N.W/G.W(Kg)
W67K-30/1320	1620100	300KN	1320mm	1140mm	200mm	80mm	320mm	60mm	3	1940×1510×1905	2000/2200
W67K-40/1320	1620200	400KN	1320mm	1120mm	200mm	100mm	340mm	80mm	4	1950×1600×2070	2200/2450
W67K-40/2000	1620300	400KN	2000mm	1800mm	200mm	100mm	340mm	80mm	4	2550×1500×2200	3500/3750
W67K-40/2500	1620400	400KN	2500mm	2300mm	200mm	100mm	340mm	80mm	4	3100×1500×2200	3850/4150
W67K-63/2500	1620500	630KN	2500mm	2260mm	250mm	100mm	355mm	80mm	5.5	3100×1600×2280	4800/5100
W67K-63/3200	1620600	630KN	3200mm	2960mm	250mm	100mm	355mm	80mm	5.5	3800×1725×2355	5600/5950
W67K-80/2500	1620700	800KN	2500mm	2240mm	250mm	100mm	355mm	80mm	7.5	3100×1725×2280	6600/6950
W67K-80/3200	1620800	800KN	3200mm	2940mm	250mm	100mm	355mm	80mm	7.5	3900×1700×2300	6500/6900
W67K-80/4000	1620900	800KN	4000mm	3740mm	250mm	100mm	355mm	80mm	7.5	4700×1600×2300	7800/8100
W67K-100/2500	1621000	1000KN	2500mm	2210mm	320mm	120mm	415mm	100mm	7.5	3200×1850×2560	7300/7700
W67K-100/3200	1621100	1000KN	3200mm	2910mm	320mm	120mm	415mm	100mm	7.5	3900×1850×2700	8100/8500
W67K-100/4000	1621200	1000KN	4000mm	3710mm	320mm	120mm	415mm	100mm	7.5	4750×1850×2800	9200/9600
W67K-125/3200	1621300	1250KN	3200mm	2910mm	320mm	120mm	415mm	100mm	7.5	3900×1850×2700	8150/8500
W67K-125/4000	1621400	1250KN	4000mm	3710mm	320mm	120mm	415mm	100mm	7.5	4700×1900×2560	10800/11200
W67K-160/3200	1621500	1600KN	3200mm	2830mm	320mm	200mm	455mm	160mm	11	3900×1800×2580	11800/12200
W67K-160/4000	1621600	1600KN	4000mm	3630mm	320mm	200mm	455mm	160mm	11	4700×2200×2580	13500/14000
W67K-200/3200	1621700	2000KN	3200mm	2800mm	320mm	200mm	455mm	160mm	15	3900×2200×3000	14500/14900
W67K-200/4000	1621800	2000KN	4000mm	3600mm	320mm	200mm	455mm	160mm	15	4800×2280×3000	15400/158000
W67K-250/3200	1621900	2500KN	3200mm	2850mm	400mm	250mm	560mm	200mm	18.5	3900×2280×3000	16000/16500
W67K250/4000	1622000	2500KN	4000mm	3650mm	400mm	250mm	560mm	200mm	18.5	4800×2300×3600	23000/23500
W67K-300/3200	1622100	3000KN	3200mm	2720mm	400mm	250mm	560mm	200mm	22	4000×2300×3500	21000/21500
W67K-300/4000	1622200	3000KN	4000mm	3520mm	400mm	250mm	560mm	200mm	22	4600×2300×3200	23000/23600
W67K-400/3200	1622300	4000KN	3200mm	2800mm	400mm	320mm	630mm	270mm	30	3800×2680×3440	30000/30600
W67K-400/4000	1622400	4000KN	4000mm	3600mm	400mm	320mm	630mm	270mm	30	4600×2680×3520	32000/32600

细节展示 Details



- 可靠的模具夹紧装置
- Reliable clamping



- 后挡料装置
- Back gauge



- 可靠的西门子电器
- Reliable Siemens electronic

HYDRAULIC PLATE PRESS BRAKE

液压板料折弯机 W 67Y (EPB)

优质、高效、高性价比

- 全钢焊接结构，振动消除应力，机械强度高、刚性好。
- 液压上传动，平衡可靠。
- 机械挡块，扭轴同步，精度高。
- 后挡料距离、上滑块行程，电动调节。
- 手动微调装置、数字显示。
- 上模配有挠度补偿机构，250 吨和长度 4000mm 以上机床可采用下挠度补偿机构。

可选附件

- E10 数显
- Siko 数显
- NC89 数显

OPTIONAL EQUIPMENT

- E10 digital display
- Siko digital display
- NC89 digital display

Convincing arguments: quality, efficiency and price

- Steel –welded construction ,vibration to eliminate stress, with high strength and good rigidity .
- Hydraulic top-drive, steadiness and reliability.
- Mechanical stop, steel torsion bar to maintain synchronization, high precision.
- Motorized –adjusting device of backgauge and rams stroke ,fine adjusting by handwheel ,numerical display.
- Deflection compensation unit installed on the top die.
- Manual crowned bottom die holder is adopted for the machine above 250ton slength 4000mm.



W67Y

机床技术参数 /Specification

型号	产品编号	公称力	工作台长度	立柱间距	喉口深度	滑块行程	开启高度	工作速度	主电机功率	铁托包装尺寸	净 / 毛重
Model	Code No.	Nominal	Length of	The distance	The depth	Slide	Open	Working Speed	Main motor(KW)	Packing size (mm)	N.W/G.W(Kg)
W67Y-30/1300	7232010	300KN	1300mm	1080mm	200mm	80mm	275mm	12mm/s	3	1950×1420×2100	2000/2200
W67Y-30/1600	7232020	300KN	1600mm	1190mm	200mm	100mm	300mm	12mm/s	4	1950×1420×2100	2200/2450
W67Y-30/2000	7232030	300KN	2000mm	1590mm	200mm	100mm	300mm	12mm/s	5.5	2550×1500×2200	3500/3750
W67Y-30/2500	7232040	300KN	2500mm	2090mm	200mm	100mm	300mm	12mm/s	5.5	3100×1500×2200	3850/4150
W67Y-40/2000	7232050	400KN	2000mm	1590mm	200mm	100mm	300mm	8mm/s	5.5	3100×1600×2280	4800/5100
W67Y-40/2500	7232060	400KN	2500mm	2090mm	200mm	100mm	300mm	8mm/s	5.5	3800×1650×2280	5800/6200
W67Y-50/2500	7232070	500KN	2500mm	1900mm	250mm	120mm	300mm	8mm/s	7.5	3100×1650×2300	6000/6300
W67Y-50/3200	7232080	500KN	3200mm	2600mm	250mm	120mm	300mm	8mm/s	7.5	3900×1700×2300	6500/6900
W67Y-63/2500	7232090	630KN	2500mm	2050mm	250mm	100mm	360mm	8mm/s	7.5	4700×1600×2300	7800/8100
W67Y-63/3200	7232100	630KN	3200mm	2600mm	250mm	100mm	360mm	8mm/s	7.5	3200×1700×2560	7500/7900
W67Y-80/3200	7232110	800KN	3200mm	2600mm	250mm	100mm	360mm	8mm/s	7.5	3900×1800×2560	8100/8400
W67Y-100/3200	7232120	1000KN	3200mm	2600mm	320mm	130mm	390mm	8mm/s	7.5	4700×1900×2560	10000/10500
W67Y-100/4000	7232130	1000KN	4000mm	3200mm	320mm	130mm	390mm	8mm/s	7.5	3900×1800×2560	8500/8800
W67Y-125/3200	7232140	1250KN	3200mm	2600mm	320mm	130mm	390mm	8mm/s	7.5	4700×1900×2560	10800/11200
W67Y-160/3200	7232150	1600KN	3200mm	2600mm	320mm	200mm	470mm	8mm/s	11	3900×1800×2580	11800/12200
W67Y-300/5000	7232160	3000KN	5000mm	4080mm	400mm	250mm	560mm	6mm/s	11	4700×2200×2580	13500/14000

细节展示 Details


- 可靠的模具夹紧装置
- Reliable clamping



- 后挡料装置
- Back gauge



- OMG 阀组 , JS 卡套接头
- OMG valve, JS connector



- 可靠的西门子电器
- Reliable Siemens electronic



- 施奈德行程开关
- Schneider limited switch



- 铝合金有机板后安全防护
- Back safety door with micro switch

E-TYPE PAN BRAKE

脚踏剪板机 FSB 1270/FSB 2450

优质、高效、高性价比

- 刀口为 T10 材料，剪切性能佳
- 上下刀口间隙可调，可剪硬的钢板，软的布匹
- 压料板装有机玻璃，便于观察
- 滑轨灵活

Convincing arguments: quality, efficiency and price

- Knife edge of T10 material, good shear properties
- Adjustable upper and lower blade gap, can be cut hard steel, soft cloth
- Pressure plate mounted glass for easy observation
- Flexible Rail



FSB 2450



FSB 1270

机床技术参数 /Specification

型号	Model	FSB 1270	FSB 2450
货号	Code No.	7111270	7112450
剪切厚度	Cut Thickness	1.2mm	1.0mm
下刀口长度	Length of the knife	1270mm	2450mm
剪切长度	Cut Length	1250mm	2400mm
外形尺寸	Dimension	1600x750x1100mm	2880x800x1150mm
净重	Net weight	300kg	500kg

TRUECUT MECHANICAL SHEARING MACHINE

精密剪板机 QH IID

优质、高效、高性价比

本机床一改传统机械剪板机的传动形式，是目前国内一致公认的最先进的小型剪板机之一。该机吸取国内外先进技术，采用电磁式盘形制动装置，其传动方式由电机带动装有减速器的轴转动，受选择性脚踏开关的控制呈瞬时接合，较小的剪切角度倾斜的剪切方向盘，使加工件的弯曲变形降低到最低限度。刀片间隙的调整采用手动快调装置，能非常简便地获得满意的刀片间隙。是金属非金属板材理想的加工剪裁设备。

Convincing arguments: quality, efficiency and price

This machine is different from the traditional driving method of mechanical shears, it's one of the most advanced miniature mechanical shears and enjoys good reputation both at home and abroad. A brake motor driving through a shaft mounted speed reduction unit and controlled by a selector switch for single or continuous strokes provides quite instantaneous engagement. The low cutting angle and inclined shearing direction reduces bowing and twist to a minimum. Blade clearance is easily set by a manually operated "Quickset" device, it's an ideal truecut machining equipment of sheet metal and nonferrous sheet metal.



QH 11D

机床技术参数 /Specification

型号	Model	QH11D 3.2x1500	QH11D 3.2x2000	QH11D 3.2x2500	QH11D 3.2x3050	QH11D 3.5x1250
货号	Code No.	7132010	7132020	7132030	7132040	7132110
可剪板厚	Shearing thickness	3.2mm	3.2mm	3.2mm	3.2mm	3.5mm
可剪板宽	Shearing width	1500mm	2000mm	2500mm	3050mm	1250mm
剪切角	Shearing angle	1°30'	1°45'	1°18'	1°30'	1°30'
行程次数	Number of stroke	47min-1	47min-1	47min-1	47min-1	47min-1
后挡料范围(手动)	Backgauge rang(Manual)	0~650mm	0~650mm	0~650mm	0~650mm	0~650mm
后挡料范围(电动)	Backgauge rang(Electric)	0~600mm	0~600mm	0~600mm	0~600mm	0~600mm
工作台高度	Height of the table	800mm	800mm	800mm	850mm	800mm
电机功率	Motor power	5.5KW	7.5KW	7.5KW	11KW	5.5KW
外形尺寸	Overall dimension	2124X2210X1180mm	2630X2210X1180mm	3130X2210X1180mm	3630X2250X1400mm	1860X2210X1180mm
铁托包装尺寸	Packing size	2150X1000X1500mm	2700X1000X1500mm	3250X1000X1500mm	3800X1100X1600mm	1950X1000X1500mm

细节展示 Details



· 可靠的后光电安全防护
· Reliable photoelectricity sensor for safety



· 刀口防护
· Knife edge protection



· 行程限位装置
· The stroke device



· 电气箱
· Electric box



· 刻度环
· Scale ring

HYDRAULIC SWING BEAM SHEAR

液压摆式剪板机 QC 12Y

优质、高效、高性价比

- 采用钢板焊接结构，液压传动，氮气回程，
- 操作方便，性能可靠，外形美观。
- 刀口间隙调节有指示牌指示，调整轻便迅速。
- 设有灯光对线照明装置，并能无级变速调节
- 上刀架的行程量。
- 工作区采用栅栏式人身安全保护装置。
- 后挡料尺寸及剪切次数有数字显示装置。



- 可靠的后光电安全防护
- Reliable photo electricity sensor for safety

Convincing arguments: quality, efficiency and price

- Frame welded ,vibration to eliminate stress, high in rigidity ,sturdy and durable.Hydraulic drive ,swing beam , return of knife beam is smooth and prompt by accumulator or mitogen cylinder , steady & reliable performance.
- The position of the blade can be adjusted to ensure the equilibrium of the gap after regrinding .
- The portable and prompt adjustment of the blade gap the value of gap is indicated by dial, positioning reliable.
- Setting the back gauge by motor .The display devices used to the back gauge's value and the shearing times are on the front of the machine.
- The stroke of the knife or continuous strokes .Preselection of cutting number and cutting strokes .Roller guide to ensure the quality of cutting sheet-metal.
- With lighter , it can adjust the stroke number of upper carier.
- Guard barrier safety feature is contact with electric.



可选附件 OPTIONAL EQUIPMENT

- 1 E10 数显
E10 digital display
- 2 Siko 数显
Siko digital display
- 3 NC89 数显
NC89 digital display



机床技术参数 /Specification

型号	货号	可剪板厚	可剪板板宽	剪切角	行程次数	后挡料范围	主电机功率	铁托包装尺寸
Model	Code No.	Shearing Thickness	Shearing width	Shearing angle	Number of stroke	Backgauge rang	Motor power	Packing size
4X2000	7131010	4mm	2000mm	1°30'	22min-1	20~480mm	4kW	2650X1500X1600mm
4X2500	7131020	4mm	2500mm	1°30'	20min-1	20~480mm	4kW	3200X1500X1600mm
4X3200	7131030	4mm	3200mm	1°30'	20min-1	20~600mm	5.5kW	3900X1750X1800mm
4X4000	7131040	4mm	4000mm	1°12'	18min-1	20~600mm	5.5kW	4700X1750X1800mm
4X5000	7131050	4mm	5000mm	1°30'	14min-1	20~600mm	7.5kW	5655X1850X1850mm
6X2000	7131060	6mm	2000mm	1°30'	20min-1	20~600mm	7.5kW	2580X1530X1600mm
6X2500	7131070	6mm	2500mm	1°30'	18min-1	20~600mm	7.5kW	3200X1750X1750mm
6X3200	7131080	6mm	3200mm	1°30'	16min-1	20~600mm	7.5kW	3900X1750X1800mm
6X4000	7131090	6mm	4000mm	1°30'	14min-1	20~600mm	7.5kW	4750X1850X1900mm
6X5000	7131100	6mm	5000mm	1°30'	8min-1	20~600mm	11kW	5690X2000X2100mm
6X6000	7131110	6mm	6000mm	1°30'	6min-1	20~600mm	11kW	6800X2280X2000mm
8X2500	7131120	8mm	2500mm	1°30'	14min-1	20~600mm	11kW	3300X1750X1850mm
8X3200	7131130	8mm	3200mm	1°30'	12min-1	20~600mm	11kW	3900X1750X1850mm
8X4000	7131140	8mm	4000mm	1°30'	10min-1	20~600mm	11kW	4800X1850X1900mm
8X6000	7131150	8mm	6000mm	1°30'	6min-1	20~900mm	22kW	6900X2280X2400mm
10X2500	7131160	10mm	2500mm	1°30'	12min-1	20~900mm	18.5kW	3300X1950X2100mm
10X3200	7131170	10mm	3200mm	1°30'	10min-1	20~900mm	18.5kW	4000X2100X2100mm
12X2500	7131180	12mm	2500mm	1°30'	8min-1	20~800mm	18.5kW	3250X2280X2280mm
12X3200	7131190	12mm	3200mm	1°30'	10min-1	20~800mm	18.5kW	3950X2280X2280mm
12X4000	7131200	12mm	4000mm	1°30'	8min-1	20~900mm	18.5kW	4800X2280X2280mm
12X5000	7131210	12mm	5000mm	1°30'	8min-1	20~800mm	18.5kW	5750X2260X2240mm
16X2500	7131220	16mm	2500mm	2°	12min-1	20~900mm	22kW	3300X2280X2280mm
16X3200	7131230	16mm	3200mm	2°	10min-1	20~900mm	22kW	4000X2280X2280mm
16X4000	7131240	16mm	4000mm	2°	8min-1	20~900mm	22kW	4800X2280X2280mm
20X2500	7131250	20mm	2500mm	2°30'	10min-1	20~900mm	30kW	3600X2800X3000mm
20X3200	7131260	20mm	3200mm	2°30'	8min-1	20~900mm	37kW	4400X2700X2600mm
25X2500	7131270	25mm	2500mm	3°12'	8min-1	20~900mm	45kW	3600X2900X3000mm
25X3200	7131280	25mm	3200mm	3°	5min-1	20~900mm	45kW	4400X2900X3000mm

细节展示 Details


· 可翻开前护栏
· Folding front barrier



· 西门子电器
· Siemens electronic



· 德国 JS 的卡套接头
· Germany JS hydraulic connector



· OMG 阀组
· OMG valve



· 控制箱 (带数显)
· Control box (with digital display)

CNC HYDRAULIC SWING BEAM SHEAR

数控液压摆式剪板机 QC 12K

优质、高效、高性价比

- 采用钢板焊接结构，液压传动，氮气回程，
- 操作方便，性能可靠，外形美观。
- 刀口间隙调节有指示牌指示，调整轻便迅速。
- 设有灯光对线照明装置，并能无级变速调节
- 上刀架的行程量。
- 工作区采用栅栏式人身安全保护装置。
- 后挡料尺寸及剪切次数有数字显示装置。



- 可靠的后光电安全防护
- Reliable photo electricity sensor for safety



标准配置：

- MiniKol M15S 数控系统 (变频控制)，
- 悬挂臂安装
- 后挡料 1000mm，滚珠丝杠 (台湾 ABBA)
- 气动托料
- 电器元件 (西门子和施耐德)
- OMRON 光电开关

Standard Configuration:

- With MiniKo1 m15s controller.
- 1000mm rear length stop, ABBA ball screw Made in Taiwan
- Hydraulic front material holding device
- With Hilary Schneider or Siemens electronic
- With OMRON optoelectronic switch, rear light barrier for operating safety

可选附件

- E200 数控
- PRG911 数控
- DAC310 数控
- DAC360 数控

OPTIONAL EQUIPMENT

- E200CNC system
- PRG911 CNC system
- DAC310 CNC system
- DAC360 CNC system



QC 12K

机床技术参数 /Specification

产品型号	产品编号	最大可剪板厚度	最大可剪板宽度	板材强度	剪切角	后挡料最大距离	空行程次数	主柱间距离	主电机功率	铁托包装尺寸	净 / 毛重
Model No.	Item No.	Shearing thickness	Shearing width	Strength of sheets	Shearing angle	Max. Length of Back Gauge	Stroke number	Distance between vertical columns	Main motor power	Packing size LxWxH(mm)	N.W/G.W(Kg)
QC12K-4×2500	1610100	4mm	2500mm	450N/mm ²	1°30'	480mm	20min-1	2750mm	4kW	3200×1500×1600	3800/4000
QC12K-4×3200	1610200	4mm	3200mm	450N/mm ²	1°30'	600	20	3450	5.5	3900×1750×1800	5800/6100
QC12K-4×4000	1610300	4mm	4000mm	450N/mm ²	1°30'	600	18	4250	5.5	4700×1750×1800	7500/7900
QC12K-6×2500	1610400	6mm	3200mm	450N/mm ²	1°30'	600	18	2720	7.5	3200×1750×1750	5200/5400
QC12K-6×3200	1610500	6mm	3200mm	450N/mm ²	1°30'	600	16	3420	7.5	3900×1750×1800	6500/6800
QC12K-6×4000	1610600	6mm	4000mm	450N/mm ²	1°30'	600	14	4220	7.5	4750×1850×1900	8500/8900
QC12K-8×2500	1610700	8mm	2500mm	450N/mm ²	1°30'	600	14	2720	11	3300×1750×1850	6200/6400
QC12K-8×3200	1610800	8mm	3200mm	450N/mm ²	1°30'	600	12	3420	11	3900×1750×1850	7300/7500
QC12K-8×4000	1610900	8mm	4000mm	450N/mm ²	1°30'	600	10	4220	11	4800×1850×1900	8900/9300
QC12K-10×2500	1611000	10mm	2500mm	450N/mm ²	1°30'	600	14	2750	15	3300×1950×2100	8500/8750
QC12K-10×3200	1611100	10mm	3200mm	450N/mm ²	1°30'	600	12	3450	15	4000×2100×2100	9800/10100
QC12K-10×4000	1611200	10mm	4000mm	450N/mm ²	1°30'	600	10	4250	15	4800×2200×2100	11000/11400
QC12K-12×2500	1611300	12mm	2500mm	450N/mm ²	1°30'	900	12	2765	18.5	3250×2280×2280	9600/9950
QC12K-12×3200	1611400	12mm	3200mm	450N/mm ²	1°30'	900	10	3465	18.5	3950×2280×2280	12000/12400
QC12K-12×4000	1611500	12mm	4000mm	450N/mm ²	1°30'	900	8	4265	18.5	4800×2280×2280	15800/16300
QC12K-16×2500	1611600	16mm	2500mm	450N/mm ²	2°	900	12	2765	22	3300×2280×2280	11600/11900
QC12K-16×3200	1611700	16mm	3200mm	450N/mm ²	2°	900	10	3465	22	4000×2280×2280	14000/14400
QC12K-16×4000	1611800	16mm	4000mm	450N/mm ²	2°	900	8	4265	22	4800×2280×2280	16800/17300
QC12K-20×2500	1611900	20mm	2500mm	450N/mm ²	2°30'	900	10	2865	37	3600×2800×3000	16000/16400
QC12K-20×3200	1612000	20mm	3200mm	450N/mm ²	2°30'	900	8	3565	37	4300×2800×3000	18000/18500
QC12K-20×4000	1612100	20mm	4000mm	450N/mm ²	2°30'	900	6	4365	37	5100×2900×3200	21500/21000

细节展示 Details


· 西门子控制器
· Siemens electronic



· 德国 JS 的卡套接头
· Germany JS hydraulic connector



· OMG 阀组
· OMG valve



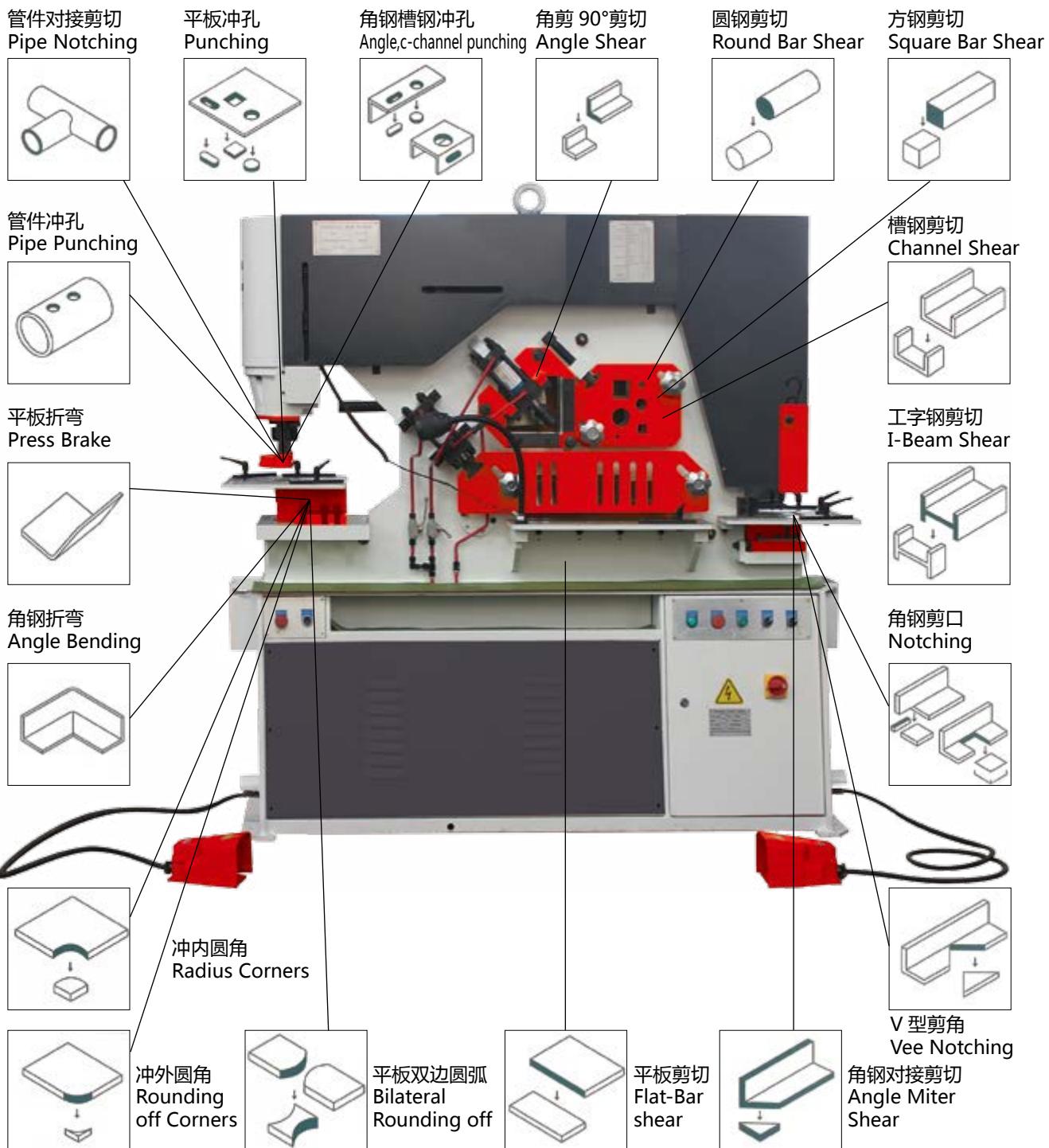
· 数控系统
· CNC control system

HYDRAULIC IRONWORKER

液压冲剪机系列 HPS

液压联合冲剪机工作部位

Working Stations of Hydraulic Ironworker



HPS
35Y-16

HPS
35Y-20

HPS
35Y-25

HPS
35Y-30

HPS
35Y-40

HPS
35Y-50



型号 Model	HPS Q35-16	HPS Q35Y-16	HPS Q35Y-20	HPS Q35Y-25	HPS Q35Y-30	HPS Q35Y-40	HPS Q35Y-50
冲压力(吨) Punching Pressure(Ton)	63	55	75	110	140	200	250
可剪最大板厚(毫米) Max.Cutting Thickness(mm)	16	16	20	25	30	35	40
板料强度(牛顿 / 毫米 ²) Plate Strength(N/mm ²)	450	≤450	≤450	≤450	≤450	≤450	≤450
剪切角 Cutting Angle(degree)	13°	7°	8°	8°	8°	8°	8°
一次行程剪板尺寸(厚x宽)(毫米) Shearing Size of One Stroke(mm)	20x140 8x400	16x250 10x480	20x330 16x600	25x330 20x600	30x355 20x600	35x380 25x700	40X400 30X750
滑块行程 Ram Stroke(mm)	26	80	80	80	80	90	100
行程次数(次 / 分) Number of Strokes(cpm)	36	8	8	6	6	6	6
喉口深度(毫米) Throat Depth(mm)	450	300	355	400	600	580	600
冲孔厚度(毫米) Punching Thickness(mm)	16	16	20	25	26	35	35
最大冲孔直径(毫米) Max. Punching Diameter(mm)	28	25	30	35	38	40	45
主电机功率(千瓦) Power of Main Motor(kw)	4	4	5.5	7.5	11	15	18.5
机床外形尺寸(长×宽×高)毫米 Overall Dimensions L × W × H (mm)	1877x725 x1945	1640x730 x1770	1860x800 x1900	2355x960 x2090	2680x1040 x2300	2840x1240 x2500	3000X1450 X2550

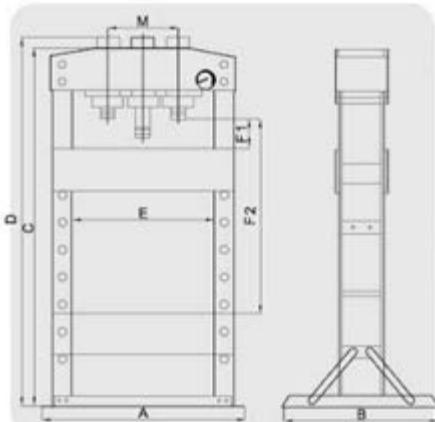
工字钢、槽钢、T型钢，则需特殊订货 I beam, Channel and T bar moulds are optional according to customers' requirement.

型钢种类 Profile	断面 Section View	HPS Q35-16	HPS Q35Y-16	HPS Q35Y-20	HPS Q35Y-25	HPS Q35Y-30	HPS Q35Y-40	HPS Q35Y-50
圆钢 Round Bar		45	45	50	60	65	75	80
方钢 Square Bar		40x40	40x40	50x50	50x50	55x55	60x60	60x65
等边角钢 Equal Angle	90° 剪切 90° Shearing		125x125x12	125x125x12	140x140x12	160x160x14	180x180x16	200x200x16
	45° 剪切 45° Shearing		100x100x10	50x50x5	50x50x5	60x60x6	60x60x6	60x60x6
T型钢 T-Bar	90° 剪切 90° Shearing		125x62.5x9	125x62.5x9	150x75x11	175x87.5x12	200x100x12	250x125x14
工形钢 I-Beam		180x94x6.5	126x74x5	160x86x6	200x102x9	280x124x10.5	300X130X13	320X130X15
槽钢 Channel		180x68x7	126x53x5.5	160x60x6.5	210x75x9	280x86x11.5	300X89X11.5	320x90x12

HYDRAULIC SHOP PRESSES


NEW

液压气动压力机 HSP



HSP 0813

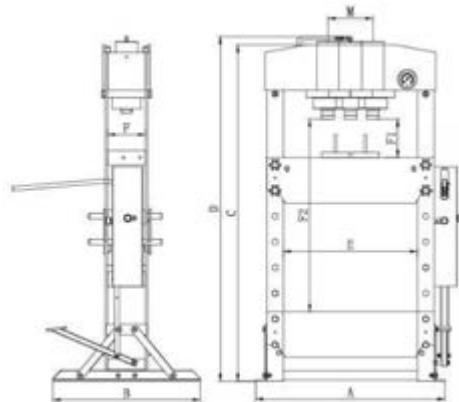
HSP 0809

型号 Model	货号 Code No.	产能 Capacity (TON)	柱塞行程 Ram Stroke (mm)	外形尺寸 Product size(mm)				滑块行程 Side stroke(mm) M
				A	B	C	D	
HSP 0808	7430800	30	150	795	700	1770	1800	200
HSP 0809	7430900	20	185	730	540	1513	1619	176
HSP 0811	7431100	50	200	1030	800	1830	1850	245
HSP 0812	7431200	75	250	1140	800	1840	1896	260
HSP 0813	7431300	100	300	1200	990	1837	1837	250

型号 Model	工作范围 Working range(mm) F1-F2	床身宽度 Bed width(mm) E	气压 Air pressure (Mpa)	进气口 Air inlet	净重 N.W. (KG)	毛重 G.W. (KG)	包装尺寸 Packing size (CM)	20尺柜容纳数量 20FT CNTR (pcs)
HSP 0808	151-1031	535	/	/	164	200	192x78x27	56
HSP 0809	35-912	510	/	/	105	132	174x70.5x27	64
HSP 0811	69-1048	730	0.75-0.85	1/4" NPT	302.5	345	97.5x31.5x211	36
HSP 0812	170-884	800	0.75-0.85	1/4" NPT	451	498	109.8x32x211	34
HSP 0813	93-993	787	0.75-0.85	1/4" NPT	662	766	115x42x204	26

HYDRAULIC SHOP PRESSES

液压气动压力机 HSPD



HSPD 0821



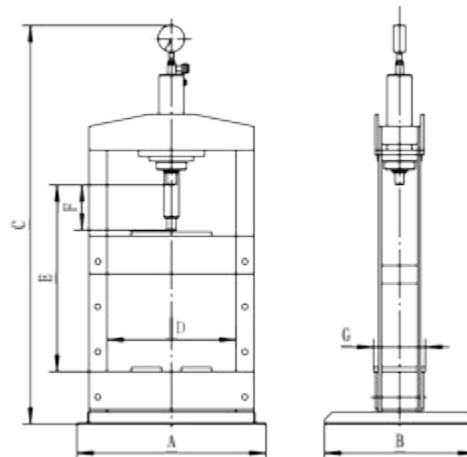
HSPD 0825

型号 Model	货号 Code No.	产能 Capacity (TON)	柱塞行程 Ram Stroke (mm)	外形尺寸 Product size(mm)				
				A	B	C	D	F
HSPD 0821	7432100	15	160	700	540	877	941	160
HSPD 0823	7432300	20	190	730	540	1513	1619	176
HSPD 0824	7432400	30	150	795	700	1772	1800	200
HSPD 0825	7432500	50	200	1030	800	1830	1850	245

型号 Model	工作范围 Working range(mm)	床身宽度 Bed width(mm)	滑块行程 Side stroke(mm)	净重 N.W. (KG)	毛重 G.W. (KG)	包装尺寸 Packing size (CM)	20 尺柜容纳 数量 20FT CNTR (pcs)
HSPD 0821	149-449	500	160	75.5	100	101x66.5x27	128
HSPD 0823	35-912	510	176	112	139	174x72.5x27	64
HSPD 0824	151-1031	535	200	167	203	192x78x27	56
HSPD 0825	69-1048	730	245	298	341	97.5x31.5x211	36

MANUAL WORKSHOP PRESSES

手动油压机 HWP M-Series



HWP M20/15

型号 Model	货号 Code No.	公称压力 Nominal pressure	液压力 Hydraulic pressure	工作台调整距 Adjustment distance of worktable	质量 Mass
HWP M10/15	7400100	100kN	30MPa	150x3 mmxn	80kg
HWP M20/15	7400200	200kN	38MPa	180x4 mmxn	165kg
HWP M30/18	7400300	300kN	36MPa	200x4 mmxn	275kg
HWP M50/19	7400500	500kN	40MPa	250x3 mmxn	420kg

型号 Model	A	B	C	D	E	F	G
HWP M10/15	630	500	1205	430	620	150	180
HWP M20/15	940	650	1800	500	944	150	230
HWP M30/18	1000	700	1850	600	971	180	280
HWP M50/19	1157	800	2100	700	990	190	320

HYDRAULIC WORKSHOP PRESSES

电动油压机 HWP E-Series

NEW



HWP E60/25

型号	货号	公称压力	液压压力	压头行程	活塞杆螺纹	工作速度	工作台调整距	电机功率
Model	Code No.	Nominal pressure	Hydraulic pressure	Travel	Thread	Working speed	Adjustment distance of worktable	Motor power
HWP E50/25	7430500	490kN	20/25.5MPa	250mm	M30x2(外)	3/h4 mm/s	150x4 mmxn	2.2kw
HWP E60/25	7430600	588kN	20/26MPa	250mm	M42x2(内)	2.6/h3.6 mm/s	150x5 mmxn	2.2kw
HWP E100/30	7431000	980kN	20/25.5MPa	300mm	M42x2(内)	2.5/h3.5 mm/s	150x5 mmxn	3kw
HWP E160/30	7431600	1568kN	20/25.5MPa	300mm	M60x2(内)	2.4/h3.6 mm/s	150x5 mmxn	4kw

型号	A	B	C	D	E(MAX)	I	J	移动方式	质量
Model								Move mode	Mass
HWP E50/25	1020	750	1800	700	1070	150	320	直拨 Direct dialing	510kg
HWP E60/25	1076	750	1880	750	1118	150	360	直拨 Direct dialing	560kg
HWP E100/30	1480	790	2120	1100	935	150	640	直拨 Direct dialing	930kg
HWP E160/30	1476	870	2200	1100	1047	150	580	直拨 Direct dialing	1480kg

UNIVERSAL BENDING MACHINE

万能折弯



工作能力 :8 毫米直径钢管
30×2 毫米钢板

working capacity:diameter 8mm steel tube
30×2mm steel plate

UNIVERSAL MACHINE VICE

万向机用平口钳 UMV 50/75/100/125



· 二轴回转
2 axes swing



· 三轴回转
3 axes swing



· 三轴回转
3 axes swing

机床技术参数 /Specification

型号	Model	UMV50	UMV75	UMV100 / 125
货号	Code No.	2906050	2906075	2906100 / 2906125
钳口宽度	Jaw width	50mm	75mm	100 / 125mm
钳口高度	Jaw height	24mm	34mm	45mm
钳口张开度	Jaw opening	48mm	80mm	95mm
净重 / 毛重	NW/GW	3.9/4.2kg	11.3/12kg	25.4/26.4kg
包装尺寸	Packing size	260x140x150mm	350x190x200mm	400x260x260mm

BMS VICE

BMS 平口钳



机床技术参数 /Specification

型号	货号	钳口宽度	钳口高度	钳口张开度
Model	Code No.	Jaw width	Jaw height	Jaw opening
BMS85	3900085	85mm	30mm	70mm
BMS100	3900100	100mm	30mm	90mm
BMS120	3900120	120mm	35mm	110mm
BMS150	3900150	150mm	48mm	120mm
BMS200	3900200	200mm	58mm	150mm

MSO VICE

MSO 平口钳



机床技术参数 /Specification

型号	货号	钳口宽度	钳口高度	钳口张开度
Model	Code No.	Jaw width	Jaw height	Jaw opening
MSO75	3901075	75mm	20mm	50mm
MSO100	3901100	100mm	23mm	75mm
MSO125	3901125	125mm	26mm	100mm
MSO150	3901150	150mm	30mm	125mm

QH MILLING VICE

Q H 机用平口钳



机床技术参数 /Specification

型号	Model	QH100	QH125	QH160	QH200
产品编号	Code No.	2910210	2910212	2910216	2910220
钳口宽度	Jaw width	100mm	125mm	160mm	200mm
钳口高度	Jaw height	35mm	40mm	51mm	63mm
钳口张开度	Jaw opening	80mm	100mm	125mm	160mm
重量	Weight	15.5kg	20kg	32kg	50kg
外形尺寸	Dimension	355x235x215mm	392x257x160mm	470x300x185mm	525x305x240mm

K-TYPE VICE**K-TYPE 平口钳**

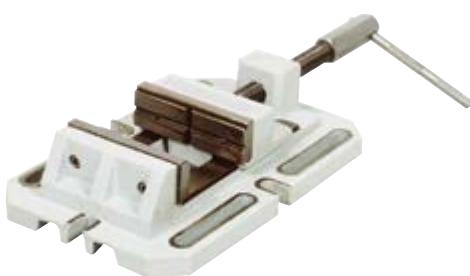
机床技术参数 /Specification

型号	Model	K-type 100	K-type 125	K-type 150	K-type 200
产品编号	Code No.	2910010	2910012	2910015	2910020
钳口宽度	Jaw width	100mm	125mm	150mm	200mm
钳口高度	Jaw height	30mm	37mm	40mm	58mm
重量	Weight	11kg	17kg	28kg	58kg

QG MILLING VICE**Q G 机用平口钳**

机床技术参数 /Specification

型号	Model	QG80	QG100	QG125	QG150
产品编号	Code No.	2910080	2910110	2910112	2910115
钳口宽度	Jaw width	80mm	100mm	125mm	150mm
钳口高度	Jaw height	26mm	32mm	38mm	45mm
钳口张开度	Jaw opening	80mm	100mm	110mm	140mm
重量	Weight	/	22kg	27kg	38kg
外形尺寸	Dimension	305x160x100mm	392x298x162mm	440x320x170mm	492x348x193mm

TQ VICE**T Q 平口 钳****BSI QUICK VICE****BSI-Q 快速夹紧钳**

机床技术参数 /Specification

型号	Model	TQ100/BSI-Q100	TQ140/BSI-Q140	TQ200/BSI-Q200
产品编号	Code No.	3902101	3902141	3902201
钳口宽度	Jaw width	100mm	140mm	200mm
钳口高度	Jaw height	40mm	50mm	64mm
重量	Weight	13kg	18kg	20kg
外形尺寸	Dimension	396x216x108mm	480x250x105mm	630x344x162mm

CTN WORKING TABLE

普通型工作台

机床技术参数 /Specification

型号	产品编号	台面尺寸	行程	净重 / 毛重	包装尺寸
Model	Code No.	Table size	Travel	NW/GW	Packing list
CTN201	8901201	185x100mm	80x50mm	11/12kg	280x280x170mm
CTN202	8901202	225x175mm	105x90mm	16/17kg	320x320x165mm
CTN203	8901203	330x220mm	190x100mm	23/25kg	425x365x165mm
CTN204	8901204	430x240mm	230x150mm	40/46kg	620x455x180mm
CTN205	8901205	600x240mm	400x150mm	48/56kg	790x455x180mm

CTS SWING CROSS TABLE

可旋转型工作台



机床技术参数 /Specification

型号	产品编号	台面尺寸	行程	净重 / 毛重	包装尺寸
Model	Code No.	Table size	Travel	NW/GW	Packing list
CTS302	8908302	225x175mm	105x90mm	19/22kg	320x320x195mm
CTS303	8908303	330x220mm	190x100mm	28/33kg	425x365x200mm
CTS304	8908304	430x240mm	230x150mm	48/55kg	620x455x220mm
CTS305	8908305	600x240mm	400x150mm	55/63kg	790x455x220mm

CTP WORKING TABLE

精密型工作台



CTP 203



CTP 205

机床技术参数 /Specification

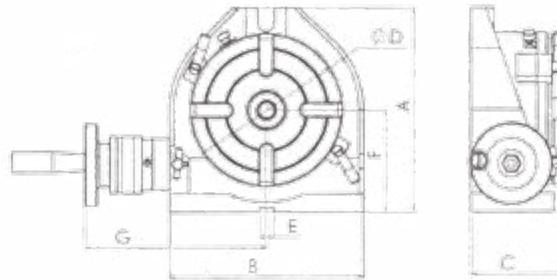
型号	产品编号	台面尺寸	行程	净重 / 毛重	包装尺寸
Model	Code No.	Table size	Travel	NW/GW	Packing list
CTP203	8907203	375x120mm	250x160mm	22/24kg	475x365x155mm
CTP204	8907204	430x240mm	230x150mm	48/54kg	620x455x180mm
CTP205	8907205	600x240mm	400x150mm	56/64kg	790x455x180mm
CTP206	8907206	730x210mm	500x210mm	82/90kg	920x510x210mm

TSL VERTICLE/HORIZONTAL ROTARY TABLE

TSL型立卧回转工作台 HV3/HV4/HV5/HV6/HV8/HV10



特殊附件 /Special Accessories



	HV3	HV4	HV5	HV6	HV8	HV10
A	98	145	155	200	285	328
B	115	150	170	190	236	286
C	75	75	80	81	100	110
D	76	110	127	150	200	250
E	12	12	12	14	14	14
F	60	85	90	100	150	170
G	130	140	145	160	210	240

机床技术参数 /Specification

型号	Model	HV3	HV4	HV5
货号	Code No.	8908075	8908100	8908125
工作台直径	Table diameter	Φ76	Φ110	Φ127
台面中心孔锥度 (莫氏)	Table center taper(Morse)	MT2	MT2	MT2
工作台垂直时中心高	Center height of table vertical	59mm	81.5mm	90mm
台面T型槽宽度	T-slot width	8mm	12mm	12mm
台面T型槽相邻角度	T-slot adjacent angle	90°	120°	120°
定位键宽度	Positioning-key width	12mm	12mm	12mm
工作台圆周刻度	Table circumference scale	360°	360°	360°
蜗杆每转所代表的转台度数	Rotary degree of worm per revolution	10°	5°	5°
游标最小示值	Mininum indicating value of vernier	10"	10"	10"
分度精度	Dividing accuracy	120"	120"	120"
最大承载 (卧式)	Max load (Horizontal)	50kg	60kg	80kg
最大承载 (立式)	Max load (Vertical)	25kg	30kg	40kg
包装尺寸	Packing size	253×173×137mm	285×220×145mm	337×250×156mm
净重/毛重	N.W/G.W	5/6 kg	8.3/9.3 kg	9.5/11 kg

型号	Model	HV6	HV8	HV10
货号	Code No.	8908150	8908200	8908250
工作台直径	Table diameter	Φ150	Φ200	Φ250
台面中心孔锥度 (莫氏)	Table center taper(Morse)	MT2	MT3	MT3
工作台垂直时中心高	Center height of table vertical	100mm	150mm	170mm
台面T型槽宽度	T-slot width	12mm	12mm	12mm
台面T型槽相邻角度	T-slot adjacent angle	90°	90°	60°
定位键宽度	Positioning-key width	14mm	14mm	14mm
工作台圆周刻度	Table circumference scale	360°	360°	360°
蜗杆每转所代表的转台度数	Rotary degree of worm per revolution	4°	4°	4°
游标最小示值	Mininum indicating value of vernier	10"	10"	10"
分度精度	Dividing accuracy	60"	60"	60"
最大承载 (卧式)	Max load (Horizontal)	100kg	150kg	200kg
最大承载 (立式)	Max load (Vertical)	50kg	75kg	100kg
包装尺寸	Packing size	337×250×156mm	337×348×176mm	390×360×240mm
净重/毛重	N.W/G.W	12.3/14 kg	24.5/26 kg	32/38 kg

B.TOOL kit 63pcs

工具箱

NEW



- 工具箱内有63个工具
- Kit contains 63 parts



- 两用扳手七件套
• (配置8,10,11,12,13,14,17 mm)
- Amphibious wrench seven stacked(configuration 8,10,11,12,13,14,17 mm)
- 六内角扳手七件套
• (配置2.5,3,4,5,6,8,10 mm)
- Six angles wrench seven times(configuration 2.5,3,4,5,6,8,10 mm)



- 30种短批头
型号:PH0,PH1,PH2,PH3,PH4,
PZ0,PZ1,PZ2,PZ3,PZ4,
一字3,4,4.5,5,5.5,6,7,
H1.5,H2,H2.5,H3,H4,H5,H6,
T10,T15,T20,T25,T27,T30
- 30 kinds Short of head nozzle
model:PH0,PH1,PH2,PH3,PH4,
PZ0,PZ1,PZ2,PZ3,PZ4,
screwdriver3,4,4.5,5,5.5,6,7,
H1.5,H2,H2.5,H3,H4,H5,H6,
T10,T15,T20,T25,T27,T30



- 棘轮螺丝刀
(可上各型号批头)
• ratchet screwdriver
(can be installed in all size of the head)
- 十字螺丝刀
• phillips screwdriver
- 一字螺丝刀
• screwdriver



- 圆嘴钳
• round pliers
- 美工刀
• pen knife
- 尖嘴钳
• nipper pliers
- 老虎钳
• pincer pliers
- 麻花钻头
• twist drill bit



- 羊角锤
• nail hammer
- 螺丝钉套盒
• screw boxes
- 3M卷尺
• 3M tape
- 活动扳手
• adjustable wrench
- 三向水平尺
• three direction level

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