### **DMG MORI**

CTX 350

CTX 450

CTX 550

CTX 750 | 1250

CTX 750 | 2000

UNIVERSAL TURNING

# CTX 6<sup>th</sup> Generation



**Machine and Technics** 

Machine components

CNC technology

Automation

04

Technical data and options

CTX 6<sup>th</sup> GEN. SERIES

# Rigid cast iron bed with high quality ball screws and linear guideways mets high production standards

The CTX series is based on an FEM optimized High quality, compact and torsion-resistant cast iron bed, for the best stiffness and vibration dumping characteristics.

The four-guideway design allows collision-free movement of the Z-axis and tailstock or back-spindle. Metal covers in working area through inclination of 45° optimize chip fall and increases operational safety and machine service life.

Highest quality ball screws and width dimension linear guideways in the X/Y and Z-axes were combined to support heavy duty cutting, guarantee machine dynamics to meet the best standards in production.

#### **CONSTRUCTION AND DESIGN BENEFITS**

The thermal stable headstock with long life lubricated high-quality bearings, ensures high rotational precision and long-lasting service.

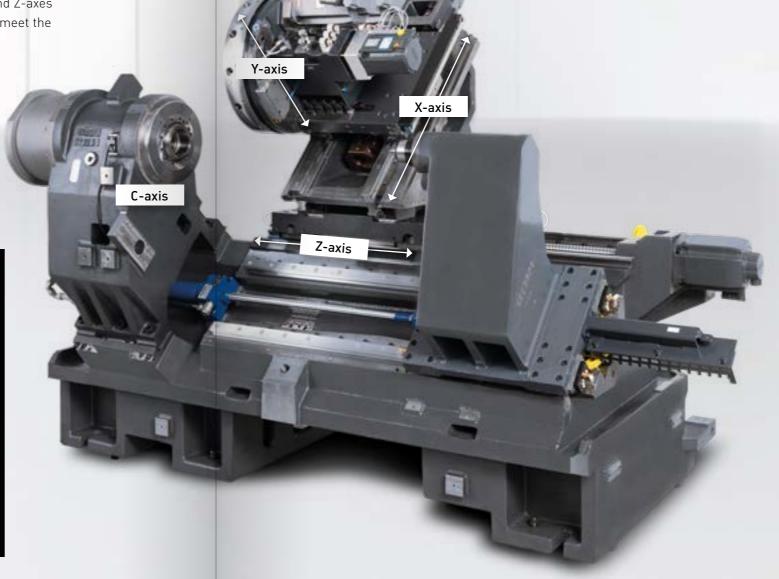
The high-power synchro motors allows both dynamic and high torque machining, with a large bar capacity, improving productivity.

The low connected load, efficient power consumption and energy recovery ensure efficient use of energy.

The programmable tailstock guarantees flexibility and rapid processes in your production, from basic machine version while the counter-spindle increase the machine flexibility.

### HIGHLIGHTS

- + Highly dynamic spindle drives family with up to 5,500 rpm or 31 kW/1,975 Nm for left spindle and up to 5,500 rpm or 40 kW/770 Nm for right spindle
- + Dynamic and precise C-axis control
  by using of the Magnescale measuring system on front bearing
- + VDI 30, VDI 40 and VDI 50 interface turret, with increased stiffness by large and unified footprint allows the machining of large range of workpieces
- + Synchronization of the left spindleand counterspindle indexing permits the machining of complex workpieces



Automation

Technical data and options

CTX 6th GEN. SERIES

### **Dedicated Turrets for** any application







CTX 350	Disc type turret HPT Gear Drive VDI 30	Star type turret HPT Gear Drive VDI 30	Star type turretMASTER VDI 30°
Model	-	Υ	SY
Power/torque (kW/Nm)	6.6/14	6.6/14	6.6/14
Rotary speed (rpm)	7,000 (8,000*)	6,000 (7,000*)	12,000
Machine Version	V3/V4 std	V6 std	V6 optional
Ready for 40 bar coolant pressure	•	•	80 bar
Air oil lubricated for 100 % duty cycle in milling	•	•	liquid cooled

<sup>•</sup> Standard \*optional 12 or 16 folds

CTX 450, CTX 550	Disc type turret HPT Gear Drive VDI 40	Star type turret HPT Gear Drive VDI 40	Star type turretMASTER VDI 40°
Model	-	Υ	SY
Power/torque (kW/Nm)	6.5 (12.5)/21 (27)	6.5 (12.5)/21 (27)	11/49
Rotary speed (rpm)	4,000 (7,000)	4,000 (6,000)	12,000
Machine Version	V4 std	V6 std	V6 optional
Ready for 40 bar coolant pressure	•	•	80 bar
Air oil lubricated for 100 % duty cycle in milling	•	•	liquid cooled

<sup>•</sup> Standard \*optional 12 or 16 folds

CTX 750	Disc type turret HPT Gear Drive VDI 50		Star type turretMASTER VDI 50
Model	Υ		SY
Power/torque (kW/Nm)	8 (9.5)/54 (50)	-	16/55
Rotary speed (rpm)	4,000 (6,000)	-	6,000
Machine Version	V3, V4 std	-	V6 standard
Ready for 40 bar coolant pressure	•	-	80 bar
Air oil lubricated for 100 % duty cycle in milling	•	-	liquid cooled

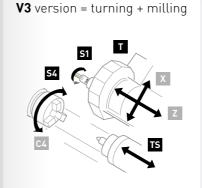
Standard

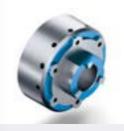
# TRIFIX®: ACCURATE AND QUICK SET UP WITH VDI

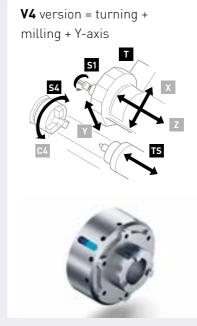
- + Common for all star turrets
- + Tool set-up time of < 30 seconds
- + Maximum stability and long-term precision: play-free and spring-loaded double centring and increased rigidity thanks to large interface with bolt hole pattern
- + <6µm repeatability (same tool, same position)
- + <10 µm positioning accuracy from one station to the next
- + Fully aligned driven tools
- + VDI holders can be used
- + Up to 4:1 gear reduction tool holders for torque demanding milling
- + Faster turret tooling set up VS Block Tool System



### Assures high machine flexibility with more machine version









07

Left spindle S3 Right spindle (auxiliary tailstock function as an option) T Turret T5 Tailstock S1 Driven tool

X X-axis Y Y-axis Z Z-axis Z Travel of right spindle C4 C-axis of left spindle C3 Positioning of right spindle

Automation

Technical data and options

DX - DIGITAL TRANSFORMATION

### CELOSX -

The future-proof solution for manufacturing

CELOS X platform offers a holistic increase their competitiveness worldwide.

CELOS X consists of the two components Transformation (MX) strategy.

CELOS X can be found at:

https://celos.dmgmori.com

### >300 >30 GOALS FEATURES

TRUSTED

ALL YOUR DATA IN CELOS Xchange

CELOS Xperience



In the manufacturing industry, the userfriendliness and ease of operation of machine tools plays a decisive role for the efficiency and productivity.

#### ADDED VALUE

- + Faster programming
- + Reduction of errors
- + Increased efficiency



In addition to easy operation, productivity is another crucial parameter, which requires a holistic view across all production processes.

#### ADDED VALUE

- + Optimization of set-up processes & capacity planning
- + Shorter processing times and order changes
- + Increased machine availability



The energy efficiency of machine tools is of utmost importance to DMG MORI and CELOS X makes a valuable contribution to this, adding direct value to the customer.

#### ADDED VALUE

- + Real-time monitoring of energy consumption
- + Automated adaptation of energy requirements to machining processes
- + Optimized & demand-driven air and cooling lubricant supply

solution for the digital transformation. Combined with the ERGOline X control panel, manufacturing companies will

CELOS Xchange, the open, secure and scalable data platform, and CELOS Xperience, which gives access to all applications and systems within the CELOS X ecosystem. This enables a comprehensive and seamless digital experience for the user with the goal of easy machine operation, extended spindle hours while maximizing energy efficiency. CELOS X is therefore the centerpiece of the digital transformation (DX) and a significant contribution to DMG MORI's Machining

### **HIGHLIGHT APPS**



### Operator

Ontimal order processing in the office and throughout the shopfloor.



### Application

Operate IT-systems directly on the control panel.



Increase planning reliability and productivity through digital transparency.



Tool Master

Manage tools directly on the



### Energy

Optimize the machine's carbon footprint by managing and reducing energy consumption.



### Energy

Track and monitor the energy consumption of the machine.

Automation

10

Technical data and options

CONTROL TECHNOLOGY

### ERGOline X -

Innovative control panel for easy operation

The ERGOline X control panel provides the machine operator with an even more intuitive user experience, whereby the ergonomics and the functionality in particular have been optimized. The ERGOline X control panel gives the user access to CELOS Xperience and the native NC controller.



- + Compact credit card format
- + Personalized access rights depending on user level
- + Independently customizable SMARTkeys

#### SIEMENS SINUMERIK ONE

- + Maximum speed and shorter non-productive times
- + Familiar SIEMENS control interface
- + 3D Shofloor Programming exclusively for DMG MORI
- + Feature-based programming in
- + Store Mill/Turn directly at the machine
- + Compatibility with SIEMENS 840D Solutionline and 828D



24" ERGOline X Panel with Sinumerik ONE and CELOS X

#### **HIGHLIGHT APPS**



#### Operator Workbook

CELOS APP for optimal order processing in the office and on the shop floor.



#### **Application Connector**

Display and operate customer IT systems directly on the panel of the machine.



#### OP Workbench

Simple design and process optimization of NC programs.

ADDITIONAL MACHINE

Machine-specific signals,

e.g. spindle speed,

coolant status etc.

SIGNALS

#### **SMART***ride*

- + Integrated panic function to instantly reduce the feed rate/rapid traverse to 0
- + Integrated haptic feedback to recognize 0 % & 100 %
- + Feed rate, rapid traverse & NC-start combined in one control element

# **CONNECTIVITY**

- + Standard connectivity thanks to integrated IoTconnector
- + MDE (Machine Data Recording) possible
- + Automatic output of at least 17 standardized production status signals
- + Openness to third-party products
- + Communication in accordance with standard protocols

PC UA MTconnect SMQTT

#### MACHINE SIGNALS VIA OPC-UA, MTCONNECT AND MQTT

#### MACHINE DATA

29 2 5HM | O

ERGO In

- 1. Serial number of the machine
- 2. Operating hours
- 3. Machine on hours

#### MACHINE STATUS

- 4. Status display 5. Number of alarms
- 6. Messages, alarms, warnings
- 7. Control mode
- 8. Machine version status

#### PRODUCTIVITY

- 9. Workpiece counter,
- current 10. Workpiece counter,
- 11. Target quantity
- 12. Current program

### runtime

#### PROCESS DATA

- 13. Spindle speed correction
  - 14. Fast speed correction
- 15. Infeed correction
- 16. Active tool
- 17. Name of the current NC program

#### CNC technology

Automation

Technical data and options

DMG MORI TECHNOLOGY CYCLES

### Exclusiv Technology Cycles -Complex machining easily realized!

DMG MORI exclusive technology cycles are the true assistants of the production-orientedprogramming to increase productivity and safety as well as to extend machine capability

- + Proper program structure
- + Program up to 60 % faster
- + Error minimization by dialog-guided programming
- + Technology know-how stored in the program



#### **EXCENTRIC TURNING AND MILLING**

Eccentric geometries easy to manufacture

- + Superposition of the turning movement by additional X- and Y-traverses
- + Applicable for turning and milling
- + Exact axis coupling and synchronization in the background



#### **RIGHT SPINDLE TIP**

Perfect combination of 6-sided complete machining and tailstock function

- + Automatically load and unload a tailstock centre into the chuck of the left spindle or right spindle via the milling spindle and into the magazine
- + Support of long and slender workpieces on the left spindlethanks to the synchronous right spindle tip
- + Higher component accuracy due to automatic change without opening the door (heat flow constant)



#### **POLYGON TURNING**

Highly productive without milling the individual surfaces

- + Machining also on machines without Y-axis
- + Dialog-guided programming thanks to the technology cycle
- + Productivity, especially with small components
- + Chamfering possible in the same process
- + Simple and fast programming minimizes errors



Avoiding vibrations of tools by means adaptation of the speed

- + Easy to operate through three parameters and without additional sensors
- + No manual intervention by the operator
- + Identical repeatability for all components
- + Increased process safety for special applications by avoiding vibrations



#### **EASY TOOL MONITOR 2.0**

Drive load monitoring of the tools during the machining process to prevent damage to the machine and equipment

- + Save the monitoring limits for each tool and every cutting edge in the program
- + NEW: User interface on CELOS SideScreen
- + NEW: Powerful algorithm for efficient monitoring after the first workpiece



#### **MULTI THREADING 2.0**

Trapezoidal, buttress and knuckle thread easily programmable at the machine

- + Screw conveyor with any profile geometry
- + Free definition of contours, pitches and number of starts possible
- + NEW: On-Point Threading Position oriented thread production



13

#### Y-AXIS PARTING

The new highly productive Y-axis parting method is amazingly easy to

- + Compatible with the standard cycle CYCLE92 (Part off cycle), so that the operator can program as usual (ShopTurn and DIN/ISO)
- + Up to three times higher productivity possible (3× feed) with simultaneously improved chip control



#### **KEYWAY BROACHING**

High flexibility in creating grooves according to DIN6885 or DIN138, inside or outside, narrow or wide, short or long with standard tools on standard machines

- + Structured input parameters for the groove geometry, the tool and the machining strategy
- + Advantages of rigid machine guidance for better groove quality

MORE TECHNOLOGY CYCLES ARE AVAILABLE!





Technical data and options

Automation

CTX 6<sup>th</sup> GEN. SERIES

# Increase efficiency of the machine with tailor-made automation solutions

Basic incorporated automation options for loading and unloading



- + Handling of the bars up to 65 mm
- + DMG MORI standard interface getting along with the magiority bar loaders/bar loading magazines avaliable in the market
- + Workpiece unloading device integrated in the machine with pneumatic part catcher for workpiece up to  $80\times200\,\text{mm}$ ,  $4\,\text{kg}$



- + Long shaft parts with machining at both ends (for example shock dampers)
- + Parts dimension up to ø40 mm and 500 mm length
- + Compact solution for small diameter shaft unloading
- + Shafts are unloaded in a frontal tray
- + For CTX 350 and CTX 450 only

### Integrated automation with 6-axis robot

#### PLUG AND PLAY CELL TO HANDLE THE PART FROM START TO FINISH

The automation device integrated in the machine allows quick and easy loading/unloading of the machine without opening loading hatches or doors.

- + For workpieces ø100×100 mm
- + Customized workpiece tray
- + Personalized grippers

#### **CUSTOMER BENEFITS:**

- + Quick loading and unloading
- + Small space requirement



DMG MORI flexible workpiece loading and unloading systems for all CTX sizes

#### READY FOR DMG MORI AUTOMATION SOLUTIONS

- + Interface for Robo2Go: Handling of shafts ø20 – 170 mm and chuck parts ø20 – 175 mm
- + Interface for Matris Light: Workpieces up to 5 kg or 2×2 kg with double gripper
- + Interface for Robo2Go Max. handling of shafts Ø 200 – 1,200 mm and chuck parts Ø 400 – 400 mm



Robo2Go MAX



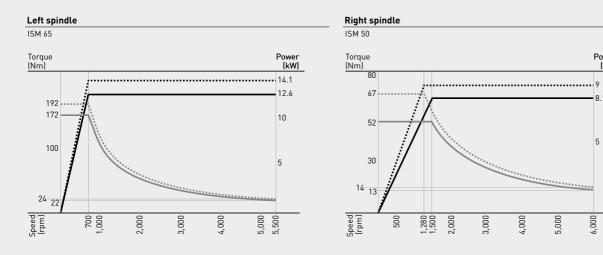




- + Low friction guideways
- + Low consumption lubrication system
- + Synchron motor technology
- + LED workspace lighting
- + Hydraulic unit with inverter technology
- + Frequency controlled coolant pumps motors
- + Clocked chip conveyor
- + Energy recovery from brake energy
- + 3-Phase motors class IE3
- + Energy efficient cooling of electrical cabinet
- + Linear scales without pressurization
- + DMG MORI Autoshutdown in standard
- + Energy certificates for all CTX machines
- + Specific CELOS APP's (for SIEMENS control)

CTX 350

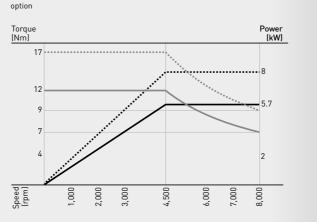
# Power/Torque Diagrams



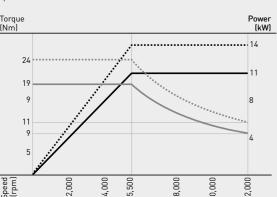
Turrets

Gear drive 6,000 rpm

Gear drive (8,000 rpm) increased speed



turretMASTER 12,000 rpm option



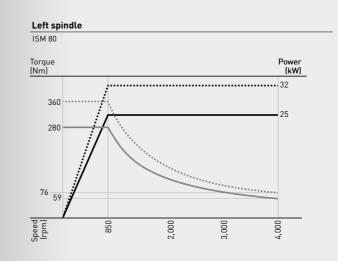
Key: 1. radial 2. axial

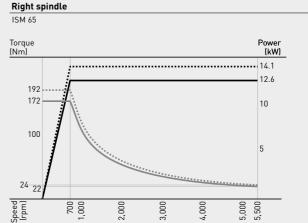
1 2

Power (kW) Torque (Nm) ...... 40 % DC (S6) — 100 % DC (S1)

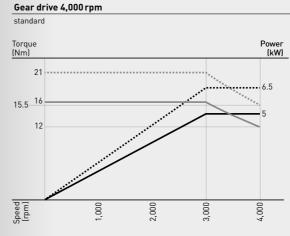
CTX 450

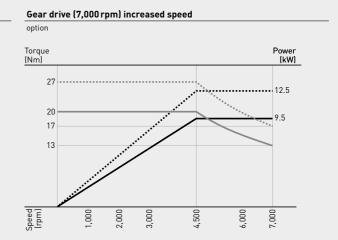
# Power/Torque Diagrams

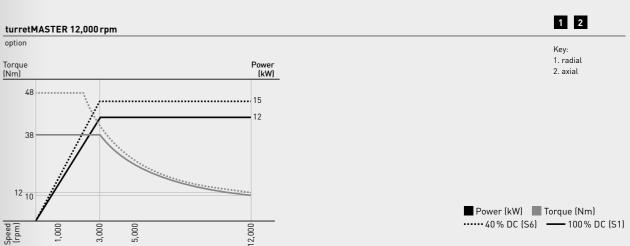




Turrets







Highlights
Machine and Technics
Machine components
CNC technology
Automation

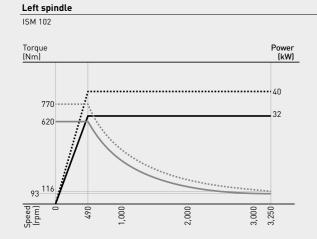
Technical data and options

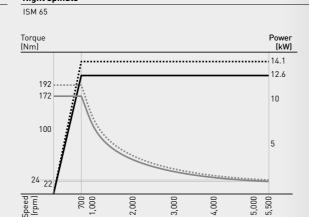
CTX 550

# Power/Torque Diagrams

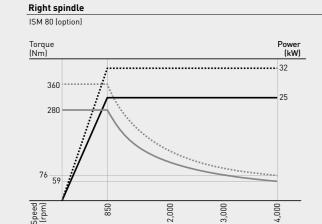


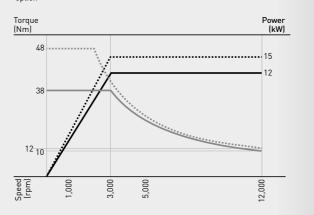
1. radial





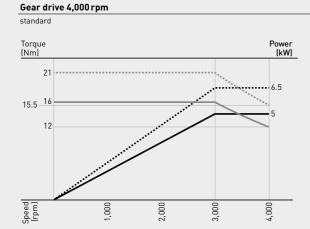
turretMASTER 12,000 rpm

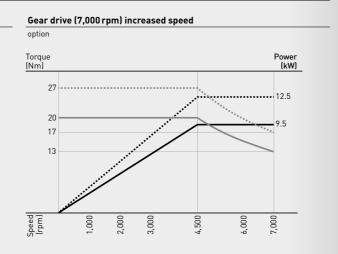




#### Turrets

18

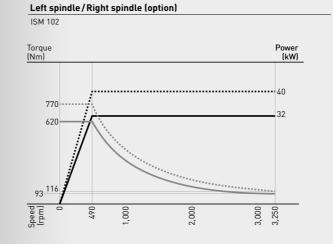


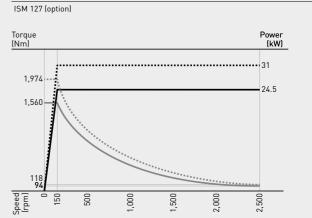


CTX 750

# Power/Torque Diagrams



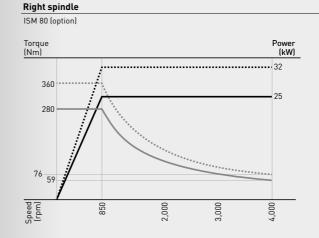


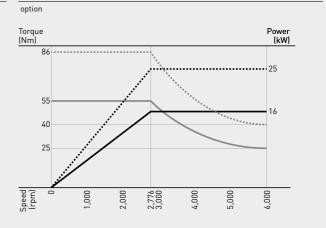


Left spindle

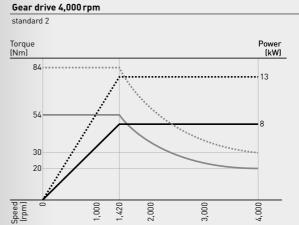
turretMASTER 6,000 rpm

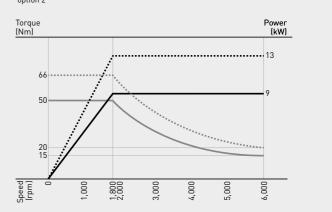
Gear drive (6,000 rpm) increased speed





#### Turrets





19

Key: 1. radial 2. axial

Machine and Technics

Machine components

CNC technology
Automation

Technical data and options

### MACHINING PARAMETER\*

		CTX 350	CTX 450	CTX 550	CTX 750   1250	CTX 750   2000
Rough turning						
Cutting speed Vc	m/min	250	250	250	250	250
Feed	mm/rev	0.4	0.4	0.5	0.4	0.6
Cutting depth ap	mm	3.5	4.5	5	8	6
Tapping (w. std. turret)						
Thread diam. Max		M16	M20	M20	M24	M24
Cutting speed Vc	m/min	15/20	15/20	15/20	15/20	15/20
Feed	mm/rev	1.5	1.5	1.5	3	3
Drilling						
Tool diam. Max	mm	55	65	65	90	90
Feed	mm/rev	0.14	0.16	0.16	0.18	0.18
Cutting speed Vc	m/min	140	140	140	140	140

\*Material C45















Industry: Machinery Material: Steel 15CrNi6 Dimensions: ø 100 × 115 mm Machining time: 14.5 min

#### 2: Balancing flange adapter Industry: Machinery

Industry: Machinery Material: Steel C45 Dimensions: ø 160 × 70 mm Machining time: 30 min

#### 3: V-Pulley

Industry: Machinery
Material: Steel ETG88
Dimensions: ø150×150 mm
Machining time: 23 min

#### 4: Chuck adapter

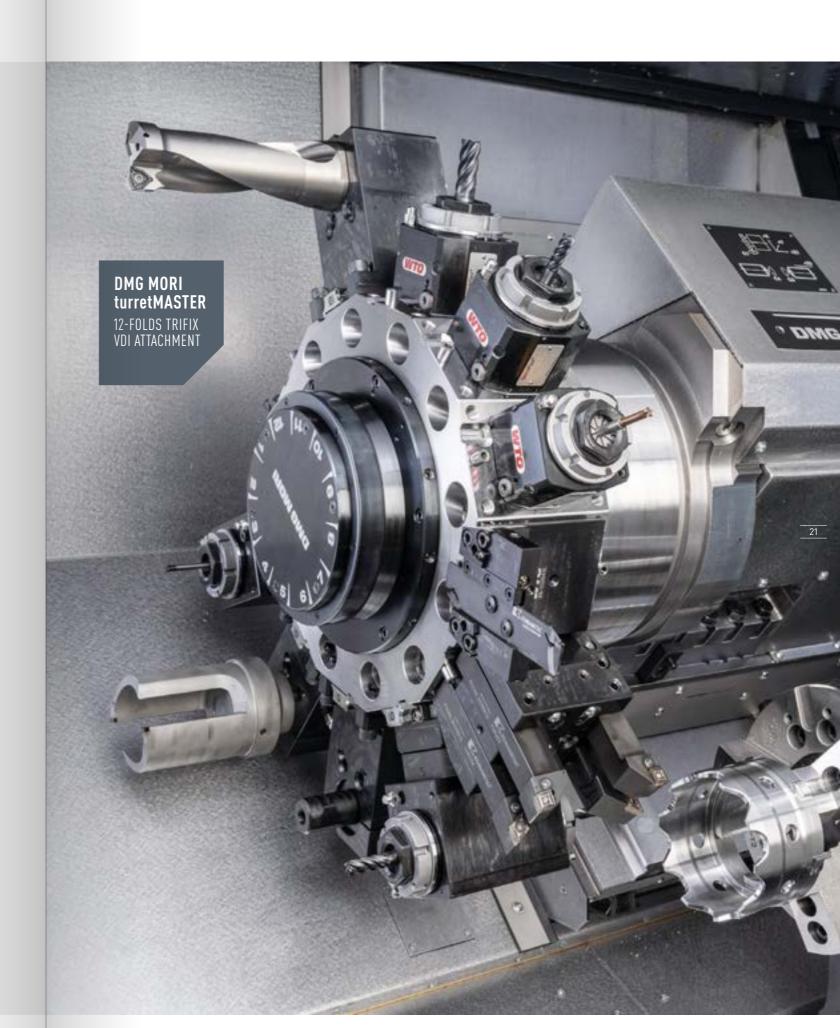
Industry: Machinery Material: Steel C45 Dimensions: Ø 260 × 60 mm Machining time: 35 min

#### 5: Nozzle

Industry: Engineering Material: Steel 1.4305 Dimensions: ø36×35 mm Machining time: 25 min

#### 6: Connector

Industry: Automotive Material: Steel C45 Dimensions: ø80×95 mm Machining time: 9 min



CTX 350

22

### Technical data

mm	45° Cast iron 3 (4 op. Y)  650 370 320 200 715 540 [485] 250 [185] 100 (±50) 550 (520) 550 1,017 [987+30]  A2-6" Ø210/250
mm	Cast iron 3 [4 op. Y]  650 370 320 200 715 540 [485] 250 [185] 100 (±50) 550 [520] 550 1,017 [987+30]  A2-6" ø 210/250
mm	3 [4 op. Y]  650  370  320  200  715  540 [485]  250 (185)  100 (±50)  550 [520]  550  1,017 [987+30]  A2-6"  Ø 210/250
mm	650 370 320 200 715 540 [485] 250 (185) 100 (±50) 550 (520) 550 1,017 [987+30]  A2-6" ø210/250
mm	650 370 320 200 715 540 [485] 250 (185) 100 (±50) 550 (520) 550 1,017 [987+30]  A2-6" ø210/250
mm	370 320 200 715 540 [485] 250 (185) 100 (±50) 550 (520) 550 1,017 [987+30]  A2-6" ø 210/250
mm	320 200 715 540 [485] 250 (185) 100 (±50) 550 (520) 550 1,017 (987+30) A2-6" Ø 210/250
mm	200 715 540 [485] 250 [185] 100 (±50) 550 (520) 550 1,017 (987+30)  A2-6" Ø 210/250
mm mm mm mm mm mm mm mm mm	715 540 [485] 250 [185] 100 (±50] 550 [520] 550 1,017 [987+30]  A2-6" Ø 210/250
mm mm mm mm mm type mm mm	540 [485] 250 [185] 100 (±50) 550 (520) 550 1,017 (987+30)  A2-6" Ø 210/250
mm mm mm mm type mm mm	250 [185] 100 (±50) 550 [520] 550 1,017 [987+30] A2-6" Ø 210/250
mm mm mm type mm	100 (±50) 550 (520) 550 1,017 (987+30) A2-6" ø 210/250
mm mm type mm	100 (±50) 550 (520) 550 1,017 (987+30) A2-6" ø 210/250
mm type mm mm	550 (520) 550 1,017 (987+30) A2-6" ø 210/250
type mm mm	550 1,017 [987+30] A2-6" ø210/250
type mm mm	A2-6" ø 210/250
mm mm	A2-6" ø 210/250
mm mm	ø210/250
mm mm	
mm	00
	73
mm	120
kW	12.6 (14.1)
rpm	5,500
	0 - 700
Nm	172 (192)
	ISM65 syn.
rpm	0 - 700
Nm	192
kg	250
	50/80
mm	120
mm	800
mm	570
mm	485
type	A2-5"
mm	170
mm	50
mm	100
kW	8.1/9
rpm	6,000
rpm	1,500/1,280
Nm	52/67
rpm	0 - 1,280
Nm	57
m/min	30
kg	20
mm	100
	mm kW rpm rpm Nm kg kg kg mm  mm mm type mm mm kW rpm rpm Nm ky rpm rpm Nm ky ky

Slide			
Rapid travers X/Y/Z	m/min	30/2	2.5/36
Feed force X/Y/Z 100 % ED	kN		3.5/6
Feed force X/Y/Z 40 % ED	kN		5.5/7.5
Measuring system X-axis			inear scale
Measuring system Y-axis			inear scale
Measuring system Z-axis (opt.)			osolute linear scale)
Ballscrew X/Y/Z-axis, D × pitch	mm		2×10
Turret			
	VDI (DIN 69880)	:	30
No. tools			12
Driven tools power at 4,500 rpm (opt.)	kW		/5,500 rpm)
Driven tools torque 100 % ED (opt.)	Nm		2) (19)
Driven tools torque 40% ED (opt.)	Nm		7) (24)
Speed range (opt.)	rpm		8,000) [12,000]
Tailstock (Version V3-V4)	i pili	0,000 (7,000	0,000) [12,000]
Tailstock (version vs=v4)	mm		50
Max. tailstock thrust	daN		00
Morse taper	MK		4
Tailstock handling	IVIT		raulic
·	n/min	<u> </u>	4
Rapid Z-axis	n/min		4
		V3/V4	V6
Chip conveyor			
Tank capacity	l	170	170
Pump power	kW	0.85 50 Hz	0.85 50 Hz
Pump capacity	l/min	20	20
Pump pressure	bar	5	5
Hydraulic unit			
Tank capacity	l	18	18
Pump power	kW	2.8	2.8
Max. working pressure	bar	55	55
Pump capacity	l/min	28.5	28.5
Pneumatic			
Pressure	bar	6	6
Consumption	m³/h	10 (max 30)	10 (max 30)
Axis Lubrication			
Lubrificant type		Grease 000	Grease 000
Tank capacity	l	2	2
Electric power			
Connection to the mains		L1, L2, L3, N, PE	L1, L2, L3, N, PE
Frequency	Hz	50/60	50/60
Nominal power	KVA	28	30
Accuracy			
According to ISO 230-2 (T=20+/-2°C)		-	_
Positioning accuracy A on X/Y/Z1	μm	6/8/10	6/8/10
Positioning accuracy A on C1/C2	arcsec	12	12/12
	ui cocc	14	12/12
Machine dimensions			
Machine dimensions  Main dimensions for setup L/W/H without chin conveyor	mm	2 545 x 2 459 x 1 870	2 565 × 2 /59 × 1 970
Main dimensions for setup L/W/H without chip conveyor	mm	2,565 × 2,459 × 1,870	2,565 × 2,459 × 1,870
	mm mm	2,565 × 2,459 × 1,870 3,963 × 2,459 × 1,870 4,150 × 2,150 × 2,200	2,565 × 2,459 × 1,870 3,963 × 2,459 × 1,870 4,150 × 2,150 × 2,200

\_\_\_\_23\_\_\_

CTX 450

### Technical data

Bed inclination		45°
Bed material		Cast iron
Number of guideways		3 (4 op. Y)
Working area		
Swing diameter over bed	mm	700
Swing diameter over cross slide V3 (V4-V6 with travel Y-axis=0)	mm	510
Max. turning diameter V3 (V4) (V6)	mm	480 (425) (450)
Recommended Turning diameter	mm	320
Distance between centers V3-V4 (between two spindle noses V6)	mm	1,025 (1,075)
Max. turning length V3-V4 (V6)	mm	800 (717)
Travel X-axis V3-V4 (V6)	mm	307.5 (300)
Travel Y-axis V4-V6	mm	130 (±65)
Travel Z1-axis V3-V4 (V6)	mm	825 (765)
Spindle axis height from ground	mm	1,043.5 (1,013.5+30)

CTX 450

		ISM80	ISM102 (op.)
Left spindle			
Spindlenose	tipo	A2-8"	A2-8"
Chuck diameter	mm	ø 250 (210 – 315)	ø315 (250 – 400)
Max. bar diameter	mm	80	102
Spindle hole diameter	mm	91	111
Frontbearing diameter inside	mm	140	160
Power, max.100 % ED (40 % ED)	kW	25 (32)	36.7 (40)
Speed range	rpm	4,000	3,250
Rated speed	rpm	0 - 850	0-560 (100 % ED) - 490 (40 % ED)
Torque 100 % ED (40 % ED)	Nm	280 (360)	620 (770)
Kind of voltage, no. of range		AC/1	AC/1
Speed range C1-axis	rpm	200	200
Torque of C1-Axis	Nm	360	770
Max. weight between centers	kg	500	650
Max. overhanging weight	kg	100 (70 – 100)	200 (140 - 250)
Center of gravity distance from chuck face	mm	120 (120 – 125)	140 (140 – 160)

		ISM65	ISM80 (op.)
Right spindle (V6)			
Travel Z3-axis	mm	775	775
Spindlenose	type	A2-6"	A2-8"
Right spindle chuck diameter	mm	ø210 (250)	ø 250 (210)
Bar diameter (partial hole)	mm	65	80
Front bearing diameter inside	mm	120	140
Power, max. 100 % ED/40 % ED	kW	13 (14)	25 (32)
Speed range	rpm	5,500	4,000
Rated speed	rpm	0-700	0-850
Torque 100 % ED / 40 % ED	Nm	171 (192)	280 (360)
Speed range C2-axis	rpm	0 - 200	0 - 200
Torque of C2-Axis	Nm	192	360
Rapid travers Z3	m/min	30	30
Max. overhanging weight	kg	50 (80)	100 (70)
Center of gravity distance from chuck face	mm	100	120

m/min	30/22.5/30
kN	4.5/4.5/7.5
kN	6/6/9.5
	Absolute linear scale
	Absolute linear scale
	Absolute rotary (absolute linear scale)
mm	ø 40 × 10
	kN kN

25

VDI (DIN 69880)	40
	12 (6 block tools)
kW	5 (9.5/4,500 rpm)
kW	6.5 (12.5/4,500 rpm)
Nm	16 (20)
Nm	21 (27)
rpm	4,000 (7,000)
	kW kW Nm

\*with SIEMENS CNC

CTX 450

26

### Technical data

Turret V6		
Tool taper Standard	VDI (DIN 69880)	40
No. of tools		12
Toolsize DIN 69880	mm×mm	25×25
No. of driven tools		12
Power max. 3,000 rpm 100 % ED (opt.)	kW	5 (9.5/4,500 rpm) (10.29)
Power max. 3,000 rpm 40 % ED (opt.)	kW	6.5 (12.5/4,500 rpm) (11/2,200 rpm)
Torque 100 % ED driven tools (opt.)	Nm	16 (20) (33)
Torque 40 % ED driven tools (opt.)	Nm	21 (27) (49)
Speed range driven tools (opt.)	rpm	4,000 (6,000) (10,000)
Tailstock (Version V3-V4)		
Tailstock travel	mm	800
Max. tailstock thrust	daN	800
Morse taper	MK	5
Tailstock handling		Hydraulic
Rapid Z3-axis	m/min	4
Steady rest		
Steady rest handling (opt.)		Connection to the Z-slide (NC)
Rapid Z-axis (opt.)	m/min	4 (8)
Work range ø	mm	20÷270 (RX 3)
Min.distance between centers V3-V4(V6 between two spindle noses)	mm	355 (400)
Chip conveyor		
Tank capacity	l	202
Pump power 50Hz	kW	0.85
Pump capacity	Vmin	20
Pump pressure	bar	5

Coolant tank (option)			
Туре		Paper filter	Paper filter
Tank capacity	l	600	980
Pump standard power	kW	2.8 (50Hz) - 2.94 (60Hz)	2.2 (60Hz) – 5.5 (50/60 Hz
Pump pressure	bar	8-40	8-80
Pump capacity	l/min	20 - 23	80 – 20
Filter capacity	μm	40	40
Cooling capacity for option with refrigerator	kW	/	/
Hydraulic unit			
Tank capacity	l		18
Pump power	kW	2	2.8
Max. working pressure	bar		70
Pump capacity	l/min	2	8.5
Pneumatic			
Pressure	bar		6
Consumption	m³/h	10 (max 75)	
Axis Lubrication/Steady rest			
Lubrificant type		Grease 000	
Tank capacity	l	2	
		(V3) (V4)	(V6)
Electric power			
Connection to the mains		L1, L2, L3, N, PE	L1, L2, L3, N, PE
Frequency	Hz	50/60	50/60
Nominal power	KVA	60	62
Accuracy			
According to ISO 230-2 (T=20 ±2 °C)			
Position accuracy A on X/Y/Z1	μm	6/8/12	
Position accuracy A on C	arcsec	12	
Machine dimensions			
Main dimensions for setup L/B/H without chip conveyor	mm	3,387×2,	662×1,956
		4,604×2,662×1,956	
Main dimensions for setup L/B/H with chip conveyor	mm	4,0U4×Z,	662×1,956
Main dimensions for setup L/B/H with chip conveyor  Main dimensions for transport L/B/H (on wodden pallet)	mm		240 × 2,256

\_\_\_\_27\_\_\_

CTX 550

### Technical data

		CTX 550
Bed		
Bed inclination		45°
Bed material		Cast iron
Number of guideways		3 (4 op. Y)
Working area		
Swing diameter over bed	mm	700
Swing diameter over cross slide V3 (V4-V6 with travel Y-axis=0)	mm	510
Swing diameter over cross slide V4-V6< with travel Y-axis=65)	mm	360
Max. turning diameter V3 (V4) (V6)	mm	480 (425) (450)
Recommended Turning diameter	mm	320
Distance between centers V3-V4 (between two spindle noses V6)	mm	1,450 (1,500)
Max. turning length V3-V4 (V6)	mm	1,225 (1,140)
Travel X-axis V3-V4 (V6)	mm	307.5 (300)
Travel Y-axis V4-V6	mm	130 (±65)
Travel Z1-axis V3-V4 (V6)	mm	1,240 (1,180)
Spindle axis height from ground	mm	1,043.5 (1,013.5+30)

		ISM 80	ISM 102
Left spindle			
Spindlenose	tipo	A2-8"	A2-8"
Chuck diameter	mm	ø315 (250 – 400)	ø 250 (210 - 315)
Bar diameter	mm	102/80	80
Spindle hole diameter	mm	111	91
Clamping pipe diameter	mm	103/81	81
Frontbearing diameter inside	mm	160	140
Lubrication of spindle bearings	tipo	feet	feet
Power, max.100 % ED (40 % ED)	kW	36.7 (40)	25 (32)
Speed range 100 % ED	rpm	3,250	4,000
Speed range 40 % ED	rpm	3,250	4,000
Rated speed	rpm	0 - 560 (100 % ED) - 490 (40 % ED)	0-850
Torque, max. 100 % ED (40 % ED)	Nm	620 (770)	280 (360)
Kind of voltage, no. of range		AC/1	AC/1
Kind of motor		ISM102 syn.	ISM80 syn.
Speed range C1-axis	rpm	200	200
Torque of C1-Axis	Nm	770	360
Least input increment C1-Axis	0	0.001	0.001
Max. weight between the centers	kg	650	500
Max. overhanging weight	kg	200 (140 - 250)	100 (70 - 100)
Center of gravity distance from chuck face	mm	140 (140 – 160)	120 (120 - 125)

		ISM65	ISM80 (op.)
Right spindle (V6)			
Travel Z3-axis	mm	775	775
Spindlenose	type	A2-6"	A2-8"
Right spindle chuck diameter	mm	ø210 (250)	ø 250 (210)
Bar diameter (partial hole)	mm	65	80
Front bearing diameter inside	mm	120	140
Power, max. 100 % ED/40 % ED	kW	13 (14)	25 (32)
Speed range	rpm	5,500	4,000
Rated speed	rpm	0-700	0-850
Torque 100 % ED / 40 % ED	Nm	171 (192)	280 (360)
Speed range C2-axis	rpm	0 - 200	0-200
Torque of C2-Axis	Nm	192	360
Rapid travers Z3	m/min	30	30
Max. overhanging weight	kg	50 (80)	100 (70)
Center of gravity distance from chuck face	mm	100	120

Slide		
Rapid travers X/Y/Z	m/min	30/22.5/30
Feed force X/Y/Z 100 % ED	kN	4.5/4.5/7.5
Feed force X/Y/Z 40 % ED	kN	6/6/9.5
Measuring system X-axis		Absolute linear scale
Measuring system Y-axis		Absolute linear scale
Measuring system Z-axis (opt.)		Absolute rotary (absolute linear scale)
Ballscrew X/Y/Z-axis, D×h	mm	ø 40 × 10

29

VDI (DIN 69880)	40
	12 (6 block tools)
kW	5 (9.5/4,500 rpm)
kW	6.5 (12.5/4,500 rpm)
Nm	16 (20)
Nm	21 (27)
rpm	4,000 (7,000)
	kW kW Nm Nm

\*with SIEMENS CNC

CTX 550

30

### Technical data

Turret V6		
Tool taper Standard	VDI (DIN 69880)	40
No. of tools		12
Toolsize DIN 69880	mm×mm	25×25
No. of driven tools		12
Power max. 3,000 rpm 100 % ED (opt.)	kW	5 (9.5/4,500 rpm) (10.29)
Power max. 3,000 rpm 40 % ED (opt.)	kW	6.5 (12.5/4,500 rpm) (11/2,200 rpm)
Torque 100 % ED driven tools (opt.)	Nm	16 (20) (33)
Torque 40 % ED driven tools (opt.)	Nm	21 (27) (49)
Speed range driven tools (opt.)	rpm	4,000 (6,000) (10,000)
Tailstock (Version V3-V4)		
Tailstock travel	mm	1,200
Max. tailstock thrust	daN	1,200
Morse taper	MK	5
Tailstock handling		Hydraulic
Rapid Z3-axis	m/min	4
Steady rest		
Steady rest handling (opt.)		Connection to the Z-slide (NC)
Rapid Z-axis (opt.)	m/min	4 (8)
Working range max.	mm	20 ÷ 270
Min.distance between centers V3-V4(V6 between two spindle noses)	mm	355 (400)
Chip conveyor		
Tank capacity	l	202
Pump power 50Hz	kW	0.85
Pump capacity	Vmin	20
Pump pressure	bar	5

Coolant tank (option)				
Туре		Paper filter	Paper filter	
Tank capacity	l	600	980	
Pump standard power	kW	2.8 (50Hz) - 2.94 (60Hz)	2.2 (60Hz) – 5.5 (50/60 Hz	
Pump pressure	bar	8-40	8-80	
Pump capacity	l/min	20 - 23	80 - 20	
Filter capacity	μm	40	40	
Cooling capacity for option with refrigerator	kW	1	/	
Hydraulic unit				
Tank capacity	l		18	
Pump power	kW	2	2.8	
Max. working pressure	bar		70	
Pump capacity	l/min	2	8.5	
Pneumatic				
Pressure	bar		6	
Consumption	m³/h	10 (max 75)		
Axis Lubrication/Steady rest				
Lubrificant type		Grease 000		
Tank capacity	l	2		
		(V3) (V4)	(V6)	
Electric power				
Connection to the mains		L1, L2, L3, N, PE	L1, L2, L3, N, PE	
Frequency	Hz	50/60	50/60	
Nominal power	KVA	60	62	
Accuracy				
According to ISO 230-2 (T=20 ±2 °C)				
Position accuracy A on X/Y/Z1	μm	6/8/14		
Position accuracy A on C	arcsec	12		
Machine dimensions				
Main dimensions for setup L/B/H without chip conveyor	mm	3,912×2,	662×1,956	
Main dimensions for setup L/B/H with chip conveyor	mm	5,129×2,662×1,956		
Main dimensions for transport I /D/II (an acaddan nallat)	mm	5,510×2,230×2,316		
Main dimensions for transport L/B/H (on wodden pallet)	111111	7,500		

CTX 750 | 1250

### Technical data

		CTX 750   1250	CTX 750   2000
Bed			
Bed inclination		45°	45°
Bed material		Cast iron	Cast iron
Number of guideways		3 ( 4 op. Y )	3 (4 op. Y)
Working area			
Swing diameter over bed	mm	950	950
Swing diameter over cross slide V3	mm	660	660
(V4-V6 with travel Y-axis=0)			000
Swing diameter over cross slide V4-V6	mm	480 (425) (450)	490
with travel Y-axis=85			.,,,
Max. turning diameter V3 (V4) (V6)	mm	700 (640) (560)	700 (640) (560)
Recommended Turning diameter	mm	400	400
Distance between centers V3-V4	mm	1,500 (1,590)	2,240 (2,340)
(between two spindle noses V6)	111111	1,300 (1,370)	2,240 (2,340)
Max. turning length V3-V4 (V6)	mm	1,290 (1,215)	2,040 (1,965)
Travel X-axis V3-V4 (V6)	mm	435 (395)	435 (395)
Travel Y-axis V4-V6	mm	170 (± 85)	170 (± 85)
Travel Z1-axis V3-V4 (V6)	mm	1,300 (1,300)	2,050 (2,050)
Spindle axis height from ground	mm	1,170 ( 1,140+30 )	1,170 (1,140+30)

		ISM127	ISM102 (op.)	ISM102	ISM127 (op.)
Left spindle					
Spindelnose	tipo	A2-11"	A2-8"	A2-8"	A2-11"
Chuck diameter	mm	ø 400 (315 – 500)	ø315 (250 – 400)	ø315 (250 – 400)	ø 400 (315 – 500)
Bar diameter	mm	127	102	102	127
Spindel hole diameter	mm	141	111	111	141
Clamping pipe diameter	mm	127.5	103	103	127.5
Frontbearing diameter inside	mm	200	160	160	200
Lubrication of spindle bearings	tipo	Grease	Grease	Grease	Grease
Power, max.100 % ED (40 % ED)	kW	24.5 (31)	32 (40)	32 (40)	24.5 (31)
Speed range 100 % ED	rpm	2,500	3,250	3,250	2,500
Speed range 40 % ED	rpm	2,500	3,250	3,250	2,500
Rated speed	rpm	0-150	0-490	0-490	0 - 150
Torque, max. 100 % ED (40 % ED)	Nm	1,560 (1,975)	620 (770)	620 (770)	1,560 (1,975)
Kind of voltage, no. of range		AC/1	AC/1	AC/1	AC/1
Kind of motor		ISM127 syn.	ISM102 syn.	ISM102 syn.	ISM127 syn.
Speed range C1-axis	rpm	200	200	200	200
Torque of C1-Axis	Nm	1,975	770	770	1,975
Least input increment C1-Axis	0	0.001	0.001	0.001	0.001
Max. weight between the centers	kg	1,500	650	650	1,500
Max. overhanging weight	kg	600 (300 - 600)	200 (140 - 250)	200 (140 - 250)	600 (300 - 600)
Max. barycenter distance from spindle nose	mm	250 (200 - 250)	140 (140 - 160)	140 (140 - 160)	250 (200 - 250)

		CTX 7	50   1250	CTX 75	50   2000
		ISM80	ISM102 (op.)	ISM80	ISM102 (op.)
Right spindle (V6)		.000			1011102 (041)
Travel Z3-axis	mm	1,220	1,220	1,970	1,970
Spindelnose	type	A2-8"	A2-8"	A2-8"	A2-8"
Right spindle chuck diameter	mm	ø 250 (210)	ø 315 (250)	ø 250 (210)	ø 315 (250)
Bar diameter	mm	80	102	80	102
Spindel hole diameter	mm	91	111	91	111
Clamping pipe diameter	mm	81	103	81	103
Frontbearing diameter inside	mm	140	160	140	160
Lubrication of spindle bearings	type	Grease	Grease	Grease	Grease
Power, max. 100 % ED/40 % ED	kW	25 (32)	32 (40)	25 (32)	32 (40)
Speed range 100 % ED	rpm	4,000	3,250	4,000	3,250
Speed range 40 % ED	rpm	4,000	3,250	4,000	3,250
Rated speed	rpm	0-850	0-490	0-850	0-490
Torque, max. 100 % ED / 40 % ED	Nm	280 (360)	620 (770)	280 (360)	620 (770)
Kind of voltage, no. of range		AC/1	AC/1	AC/1	AC/1
Kind of motor		ISM80 syn.	ISM102 syn.	ISM80 syn.	ISM102 syn.
Speed range C2-axis	rpm	200	200	200	200
Torque of C2-Axis	Nm	360	770	360	770
Least input increment C2-Axis	0	0.001	0.001	0.001	0.001
Rapid travers Z3	m/min	30	30	30	30
Max. overhanging weight	kg	100 (70)	200 (140)	100 (70)	200 (140)
Max. barycenter distance from spindle nose	mm	120	120	120	120
Slide					
Rapid travers X/Y/Z	m/min	30/2	22.5/30	30/2	2.5/30
Feed force X/Y/Z 100 % ED	kN	8/7	7.5/13	8/7	.5/13
Feed force X/Y/Z 40 % ED	kN	9.5/8	3.5/15.5	9.5/8.5/15.5	
Least input increment X/Y/Z	mm	0.	.001	0.	001
Measuring system X-axis		Absolute	linear scale	Absolute	linear scale
Measuring system Y-axis		Absolute	linear scale	Absolute	linear scale
Measuring system Z-axis (opt.)		Absolute rotary (a	bsolute linear scale)	Absolute rotary (al	bsolute linear scale
Ballscrew X-axis, d×h	mm	ø 5	0×10	ø 50	0×10
Ballscrew Y-axis, d×h	mm	ø 5	0×10	ø 50	0×10
Ballscrew Z-axis, d×h	mm	ø 5	0×10	ø 50	0×10
Turret V3-V4					
Tool taper Standard	VDI (DIN 69880)		50		50
No. of tools		12+6 b	lock tools	12+6 b	lock tools
Toolsize DIN 69880	mm×mm	32	2×32		×32
No. of driven tools			12		12
Power max. 1,420 rpm 100 % ED (opt.)	kW	8 (9.5/1,800 rpm)			,800 rpm)
Power max. 1,420 rpm 40 % ED (opt.)	kW	13 (12.5/1,800 rpm)			1,800 rpm)
Torque 100% ED driven tools (opt.)	Nm		(50)		(50)
Torque 40 % ED driven tools (opt.)	Nm		(66)		(66)
Speed range driven tools (opt.)	rpm		(6,000)		(6,000)
Indexing time 30/180 Grad	s		5/0.86		/0.86
			000		0.00

Max. weight (tools + disc)

\_\_\_\_33\_\_\_

#### CTX 750 | 1250

34

### Technical data

recimieat	aata		
		CTX 750   1250	CTX 750   2000
Turret V6	VDI (DINI (0000)	50	50
Tool taper Standard	VDI (DIN 69880)	50	50
No. of tools		12	12
Toolsize DIN 69880	mm×mm	32×32	32×32
No. of driven tools		12	12
Power max. 2,776 rpm 100 % ED	kW	16	16
Power max. 2,776 rpm 40 % ED	kW	25	25
Torque 100 % ED driven tools	Nm	55	55
Torque 40 % ED driven tools	Nm	86	86
Speed range driven tools	rpm	6,000	6,000
Indexing time 30/180 Grad	S	0.4/0.65	0.4/0.65
Max. weight on the disc	kg	200	200
Tailstock (Version V3-V4)			
Tailstock travel	mm	1,200	1,970
Max. tailstock thrust	daN	1,600	1,800
Quill diameter	mm	-	120
Quill stroke	mm	-	150
Morse taper	MK	5	5
Tailstock handling (opt.)		Hydraulic (NC)	Connection to the Z-slide (NC)
Rapid Z3-axis (opt.)	m/min	4 (20)	4 (20)
	,		
Steady rest			
Steady rest handling (opt.)		Connection to the Z-slide (NC)	Connection to the Z-slide (NC)
Rapid Z-axis (opt.)	m/min	4 (8)	4 (8)
Work range ø	mm	75÷430 (RX 5)	75 ÷ 430 (RX 5)
Min.distance between centers V3-V4 (V6 between two spindle	mm	300 (400)	330 (430)
noses)			
Cooling (V3-V4)			
Cooled units		Left spindle	Left spindle
Cooling system		Heat exchanger	Heat exchanger
Tank capacity	l	19.5	19.5
Cooling capacity	kW	2.7	2.7
Pump capacity	l/min	20	20
Pressure	bar	0.7	0.7
Viscosity cooling fluid	St.	1	1
Cooling (V6/option)			
cooking (40/ option)		Package for increased environment	Package for increased environment
Options		temperature/ISM127	temperature/ISM127
Cooled units		Left spindle/Right spindle/ turnMASTER turret	Left spindle/Right spindle/ turnMASTER turret
Cooling system		Active chiller	Active chiller
Tank capacity	l	35	35
Cooling capacity	kW	5	5
Pump capacity	Vmin	40	40
Pressure	bar	5	5
Viscosity cooling fluid	St.	1	1
Chip conveyor			
Tank capacity	l	305	400
Pump power 50Hz	kW	0.85 (2.2) (2.2)	0.85
		20 (20) (22)	20
Pump procesure	l/min_		5
Pump pressure	bar	5 (12) (5-20)	j j

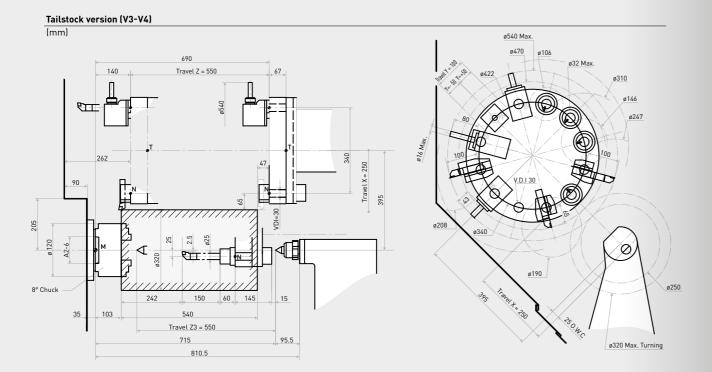
		CTX 750   1250		CTX 75	0 2000
Coolant tank (option)					
Туре		Paper filter	Paper filter	Paper filter	Paper filter
Tank capacity	l	600	980	600	980
Pump standard power	kW	0.75 (0.75/2.2) (0.75/3)	0.75 (0.75/2.2) (0.75/5.5)	2.8 (50Hz) – 2.94 (60Hz)	2.2 (60Hz) – 5.5 (50/60 Hz)
Pump pressure	bar	8 (8/20) (8/40)	8 (8/20) (8/80)	8 - 40	8 - 80
Pump capacity	l/min	20 (20/25) (20/22)	20 (20/25) (80/20)	20 - 23	80 – 20
Filter capacity	μm	40	40	40	40
Hydraulic unit					
Tank capacity	l	18		18	
Pump power	kW	2.8		2.8	
Max. working pressure	bar	55		55	
Pump capacity	l/min	28.5		28.5	
Pneumatic					
Pressure	bar	6		6	
Capacity	m³/h	10 (max 70)		10 (max 70)	
Lubrification axis/steady rest					
Lubrificant type		Grease 000		Grease 000	
Tank capacity	<u> </u>	2		2	
Lubrification turret					
Lubrificant type		Air + Hydraulic oil ISO VG 68		Air + Hydraulic oil ISO VG 68	
Tank capacity	l	2		2	
		(V3) (V4)	(V6)	(V3) (V4)	(V6)
Electric power					
Connection to the mains		L1, L2, L3, N, PE	L1, L2, L3, N, PE	L1, L2, L3, N, PE	L1, L2, L3, N, P
Frequency	Hz	50/60	50/60	50/60	50/60
Apparent nominal power	KVA	60	60	60	60
Maximum current	Α	85	85	85	85
Short circuit current	kA	10	10	10	10
Thermal protection	Α_	90	90	90	90
Fuse protection	Α	125	125	125	125
Connection cables	mm²	25	25	25	25
Accuracy					
According to ISO 230-2 (T=20+/-2°C)		(10/4)			
Tolerance of position A on X/Y/Z1	μm	6/8/14		6/8/14	
Tolerance of position A on C	arcsec	12		12	
Tolerance of position A on Z3	μm	16		16	
Machine dimensions					
Main dimensions for setup  L/B/H with chip conveyor	mm	5,488×3,273×2,244		6,323×3,273×2,244	
		5,700×2,350×2,550		6,600 × 2,350 × 2,550	
The state of the s	mm	5,700 × 2,3	350 × 2,550	6,600×2,3	350×2,550
Main dimensions for transport L/B/H (on wodden pallet) Weight of the machine incl. electrical cabinet	mm kg		000		350 × 2,550 

Highlights Machine and Technics Machine components CNC technology Automation

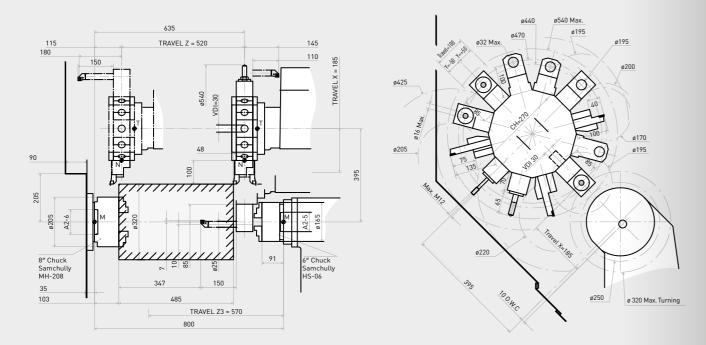
Technical data and options

CTX 350

# Working area

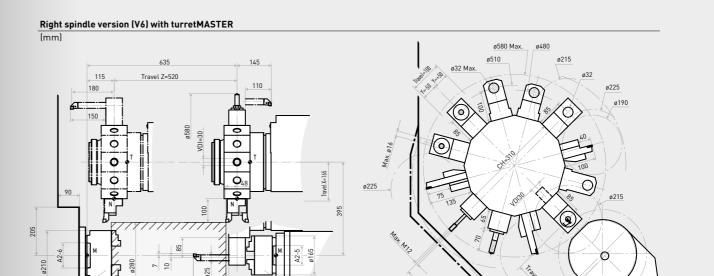


Right spindle version (V6)



CTX 350

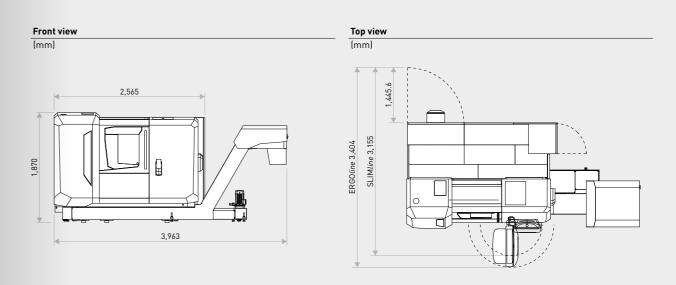
# Working area



37

ø280 Max. Turning

### Floor Plans



Machine and Technics

Machine components

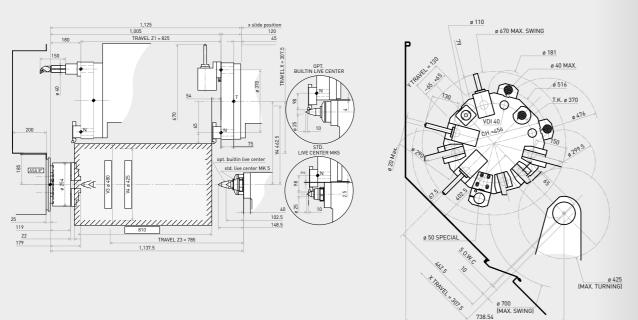
CNC technology Automation

Technical data and options

CTX 450

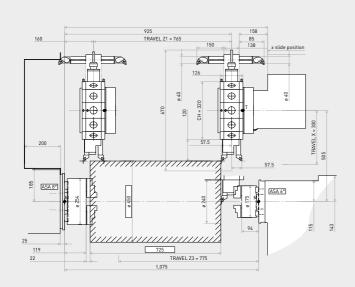
# Working area

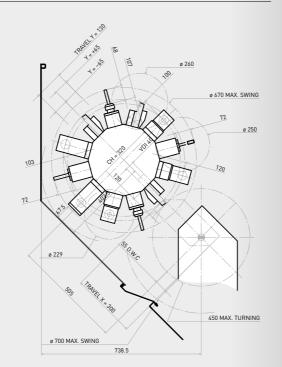
#### Tailstock version (V3-V4)



#### Right spindle 65 version (V6)

38

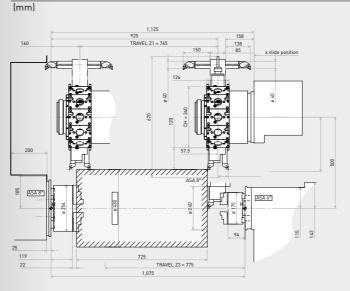


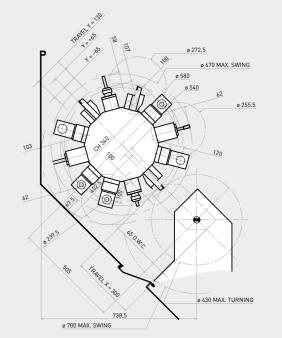


CTX 450

# Working area

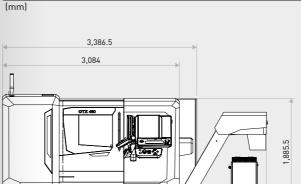
#### Right spindle 65 version (V6) with turretMASTER

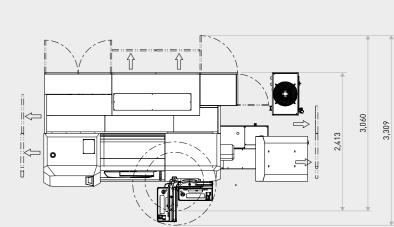




Front view

### Floor Plans





Top view

Highlights
Machine and Technics
Machine components
CNC technology
Automation

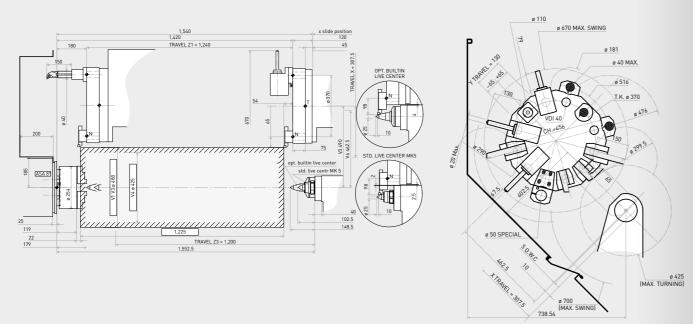
Technical data and options

CTX 550

# Working area

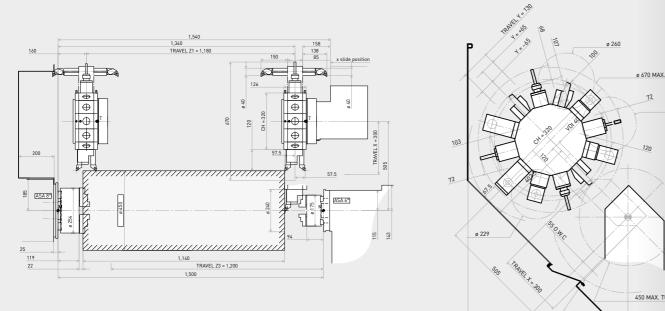
#### Tailstock version (V3-V4)

(mm)



#### Right spindle 65 version (V6)

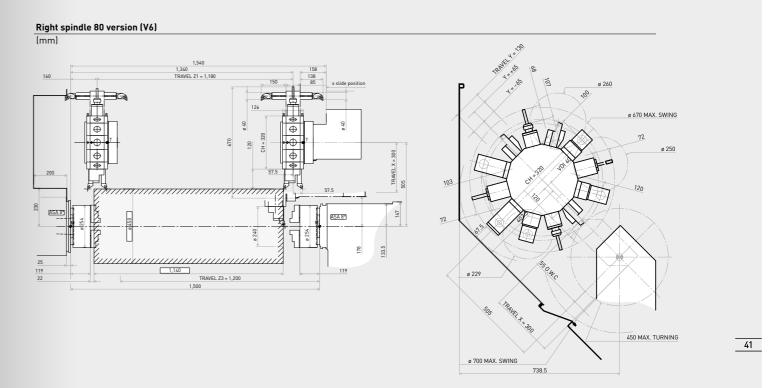
[mm]



ø 700 MAX. SWING

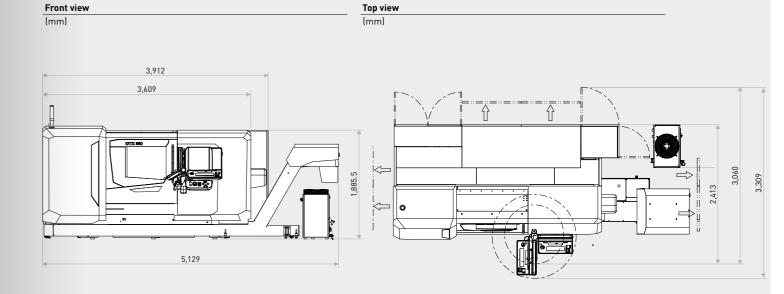
CTX 550

# Working area



CTX 550

### Floor Plans



Machine and Technics

Machine components
CNC technology

Automation

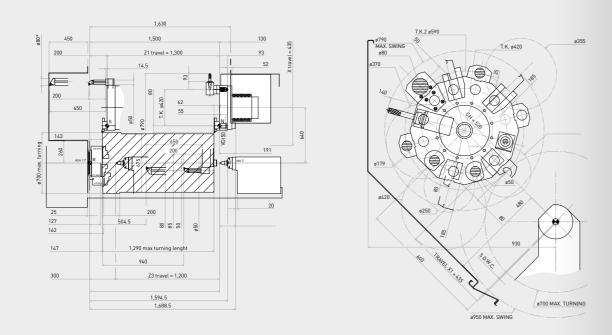
Technical data and options

CTX 750 | 1250

# Working area

#### Tailstock version (V3)

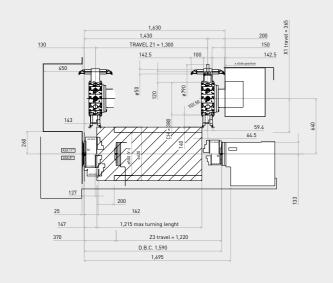
(mm

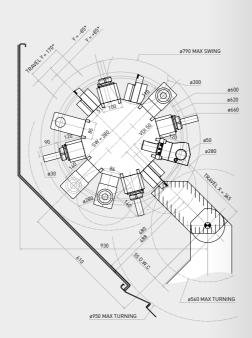


#### Right spindle 80 version (V6) with standard turretMASTER

[mm]

42



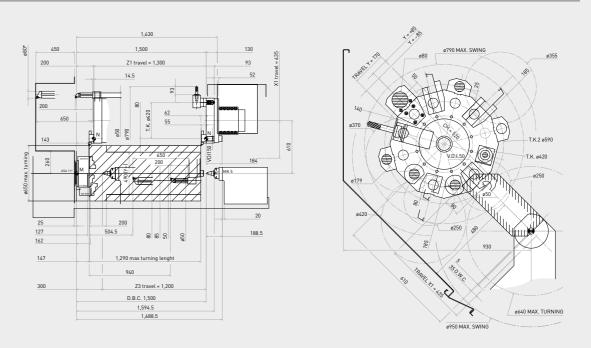


CTX 750 | 1250

# Working area

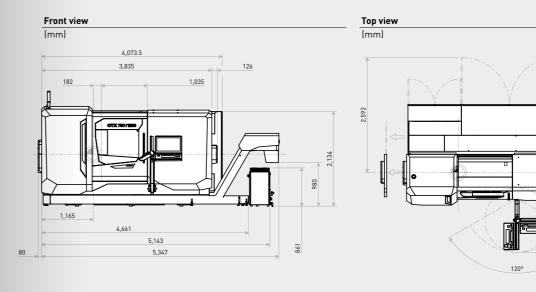
#### Tailstock version (V4)

(mm



CTX 750 | 1250

### Floor Plans



Machine and Technics

Machine components

CNC technology
Automation

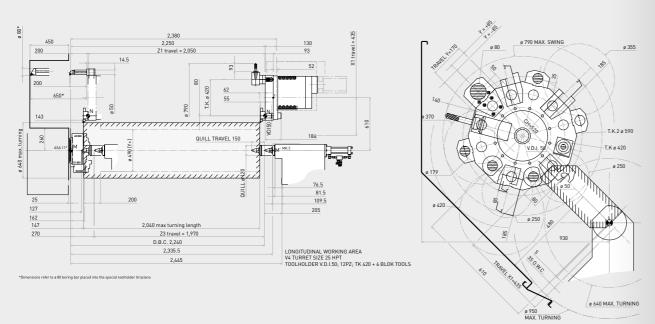
Technical data and options

CTX 750 | 2000

# Working area

#### Tailstock version (V3)

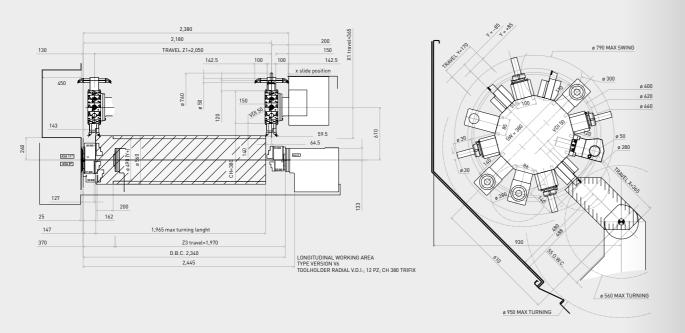
(mm)



#### Right spindle 80 version (V6) with standard turretMASTER

[mm]

44

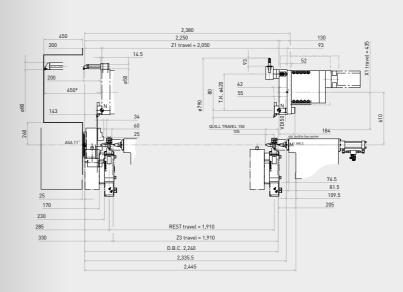


CTX 750 | 2000

# Working area

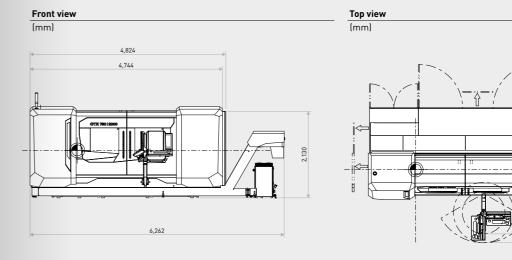
Tailstock version (V3-V4) with steady rest SLU X4

(mm



CTX 750 | 2000

### Floor Plans







### my DMG MORI

The customer portal for service optimization

#### MORE SERVICE

Fast support and live status of your service requests

#### **MORE KNOWLEDGE**

All relevant documents can be called up digitally

#### MORE AVAILABILITY

The direct line to a service expert with guaranteed prioritized processing, registration in < 3 minutes

Every customer benefits at no extra charge!



All countries in which my DMG MORI is available can be found at: myDMGMORI.com



You too can benefit! Register now for free: my DMGMORI.com

#### **CUSTOMER FIRST - OUR SERVICE PROMISE!**

Top quality at fair prices. It's a promise!



#### Best price guarantee for original spare parts.

Should you get a spare part offered by us at least 20% cheaper elsewhere, we will refund the price difference up to 100%\*.



#### Spindle service at best prices.

The highest level of competence from the manufacturer at new and attractive prices - DMG MORI spindle service!

\*All information and price advantages for Customer First are available at: customer-first.dmgmori.com

Export Control: Machines and products from DMG MORI may be subject to export restrictions. Therefore, prior export control authorization from competent authorities may be required. To prevent the illegal diversion of the equipment to individuals or nations that threaten international security, every DMG MORI machine is equipped with an RMS function (Relocation Machine Security). The RMS automatically deactivates the machine when the machine is moved or disassembled. Such deactivation does not take place during regular operation or maintenance. If the equipment is so-disabled, it can only be re-activated by DMG MORI or some authorized representatives. Reactivation can be ordered via DMG MORI Service. If the machine is deactivated due to a substantial repair activity, this service is free of charge. DMG MORI may refuse to re-activate the machine if it determines that doing so would be an unauthorized export of technology or otherwise violate applicable export restrictions. DMG MORI shall have no obligation to re-activate such a machine and shall have no liability as a result thereof.