

**DMG MORI**

CTX 2500 | 700  
CTX 2500 | 1250

2-AXIS UNIVERSAL TURNING

**CTX 2500**



[DMGMORI.COM](http://DMGMORI.COM)

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**Highlights**

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Machine and Technology

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Applications and Parts

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Control Technology

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Automation

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Technical Data and Options

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CTX 2500

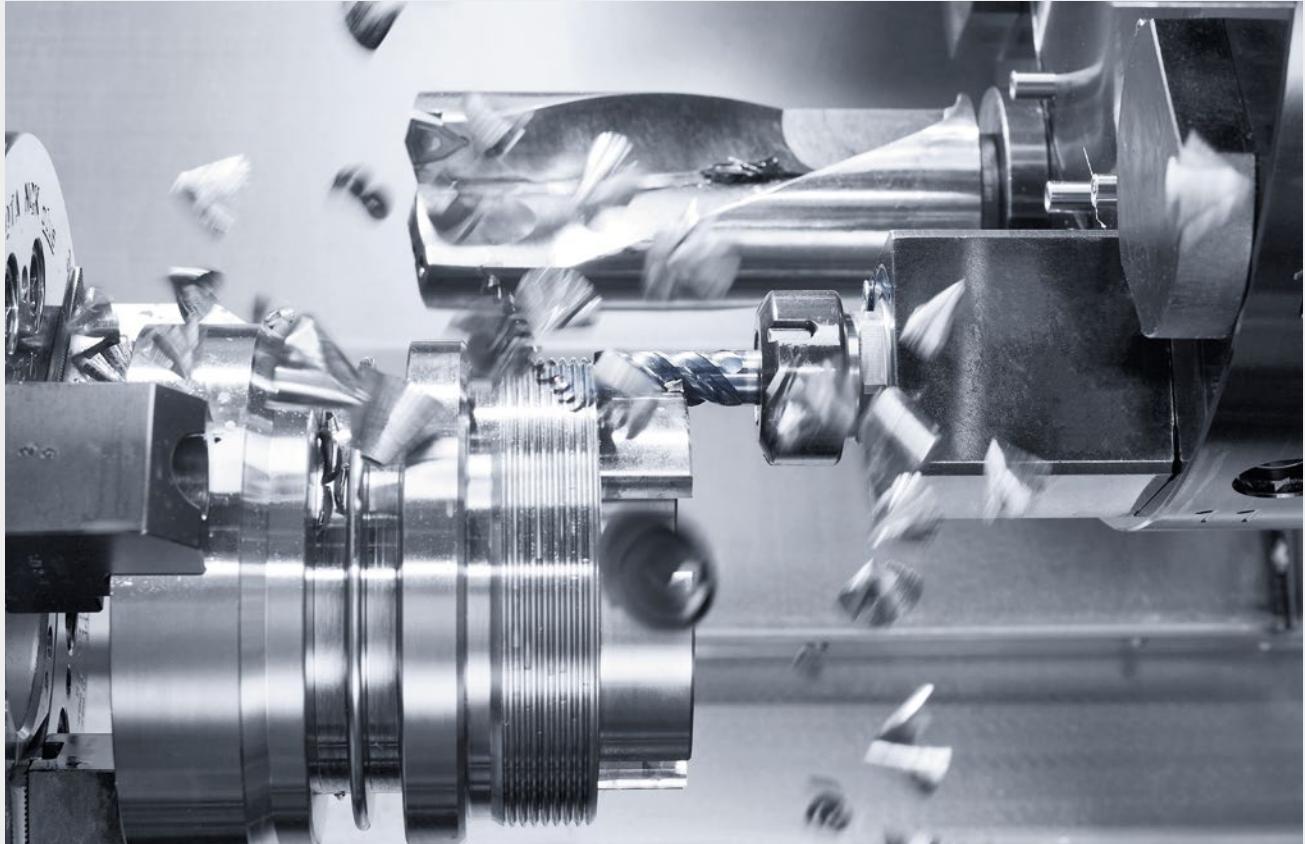
# The new CTX 2500 – best in class universal turning

## HIGHLIGHTS

- + Highly rigid machine bed for powerful machining
- + Highly stable box guideways in all main axes for highest requirements
- + High-performance turnMASTER main spindle with precise C-axis (0.001 °)
- + Optimized 12-station turret with 6,000 rpm and VDI interface as standard
  - Disc turret for all MC and Y machines as standard
  - Star turret with Direct Drive and up to 85 Nm or 12,000 rpm for all SY machines
- + Y-axis and powerful counter spindle optional
- + New packages for bar machining up to Ø102 mm
- + CELOS with SIEMENS 840 D sl

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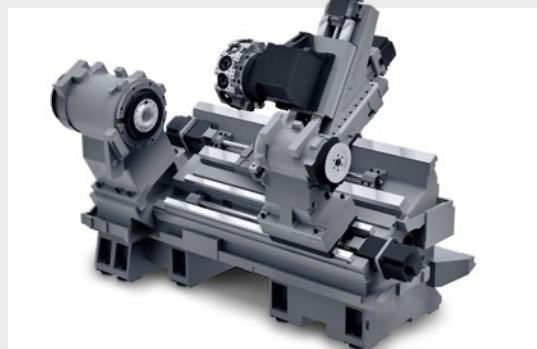
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## VDI QUICK-CHANGE SYSTEM

- + Extremely short tool mounting times
- + Mounting repeatability 6 µm / 200 mm
- + No tool adjustment



## HIGH LEVEL OF MACHINE RIGIDITY

- + Box guideways on the X/Y/Z-axes and a high-rigidity bed for heavy-duty cutting
- + High surface quality when machining hard-to-cut materials and during interrupted cuts
- + FEM-Optimised machine design



## BOX GUIDEWAYS IN X/Y/Z-AXES

- + 80 mm wide for higher vibration damping performance and dynamic rigidity
- + Rapid traverse speed:
  - X-axis 30 m/min
  - Y-axis 10 m/min
  - Z-axis 30 m/min



**Magnescale**

## LINEAR MEASURING SYSTEM (STANDARD IN THE X-AXIS)

- + Outstanding precision with the Magnescale absolute linear measuring system with a standard resolution of 0.01 µm
- + High resolution, magnetic measuring system
- + Protective structure, resistance to oil and condensation
- + Impact resistance of up to 450 m/s<sup>2</sup>
- + Vibration resistance of up to 250 m/s<sup>2</sup>



## CELOS FROM DMG MORI

- + Exclusive technology expertise
- + Dialogue-based programming of complex machining operations directly on the machine
- + Program creation by the machine operator, no DIN programming required
- + Maximum productivity thanks to CELOS and exclusive DMG MORI Technology Cycles

Highlights

**Machine and Technology**

Applications and Parts

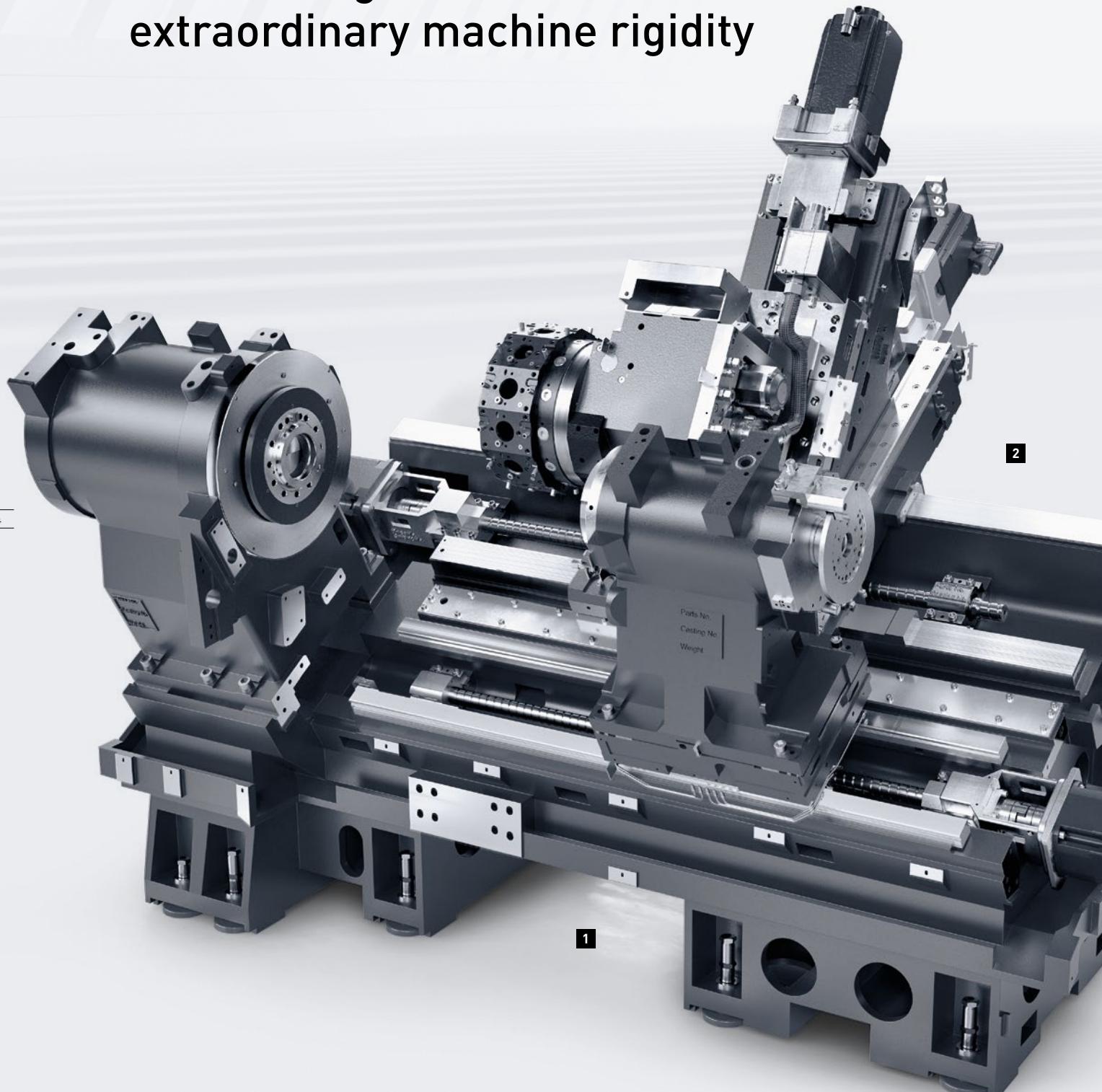
Control Technology

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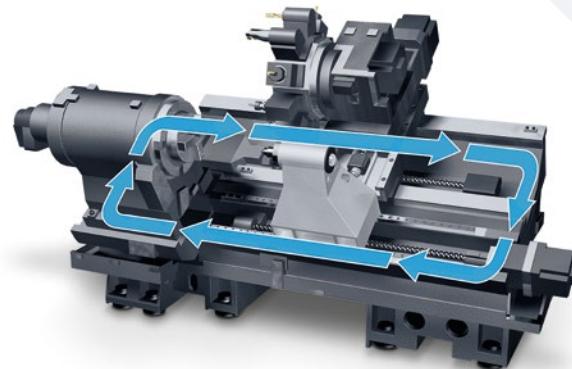
CTX 2500

## Outstanding robustness and extraordinary machine rigidity



## COOLANT CIRCULATION FOR THE CASTING PARTS

- + Uniform thermal displacement
- + Resistance to changes in ambient temperature
- + High-accuracy long-term machining



### 1 Highly stable bed

Box guideways on the main axis and a high-rigidity bed for heavy-duty cutting

High surface quality when machining hard-to-cut materials and during interrupted cuts



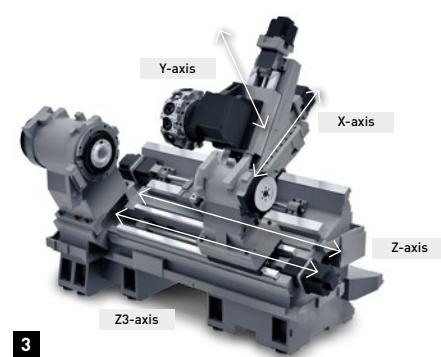
### 2 Box guideways

Box guideways with a width of 80 mm for highest vibration damping performance and dynamic rigidity

### 3 Functional work area

Travel range

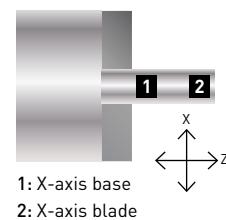
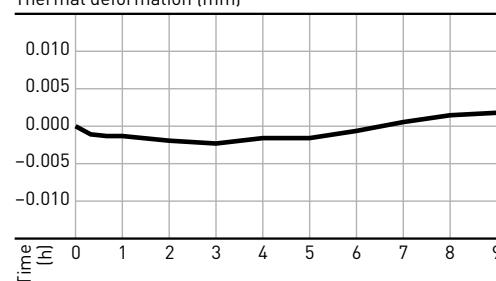
X-axis	260 mm
Y-axis	100 mm ( $\pm 50$ ) – Y-axes specification
Z-axis	795 mm CTX 2500   700 1,345 mm CTX 2500   1250
Tailstock	734 mm CTX 2500   700 MC/Y 1,284 mm CTX 2500   1250 MC/Y
Z3-axis	795 mm CTX 2500   700 SY 1,345 mm CTX 2500   1250 SY



## MILLING + Y-AXIS + COUNTER SPINDLE SPECIFICATION

- + 2 µm (actual result)
- + Spindle speed 3,200 rpm
- + Constant ambient temperature

Thermal deformation (mm)

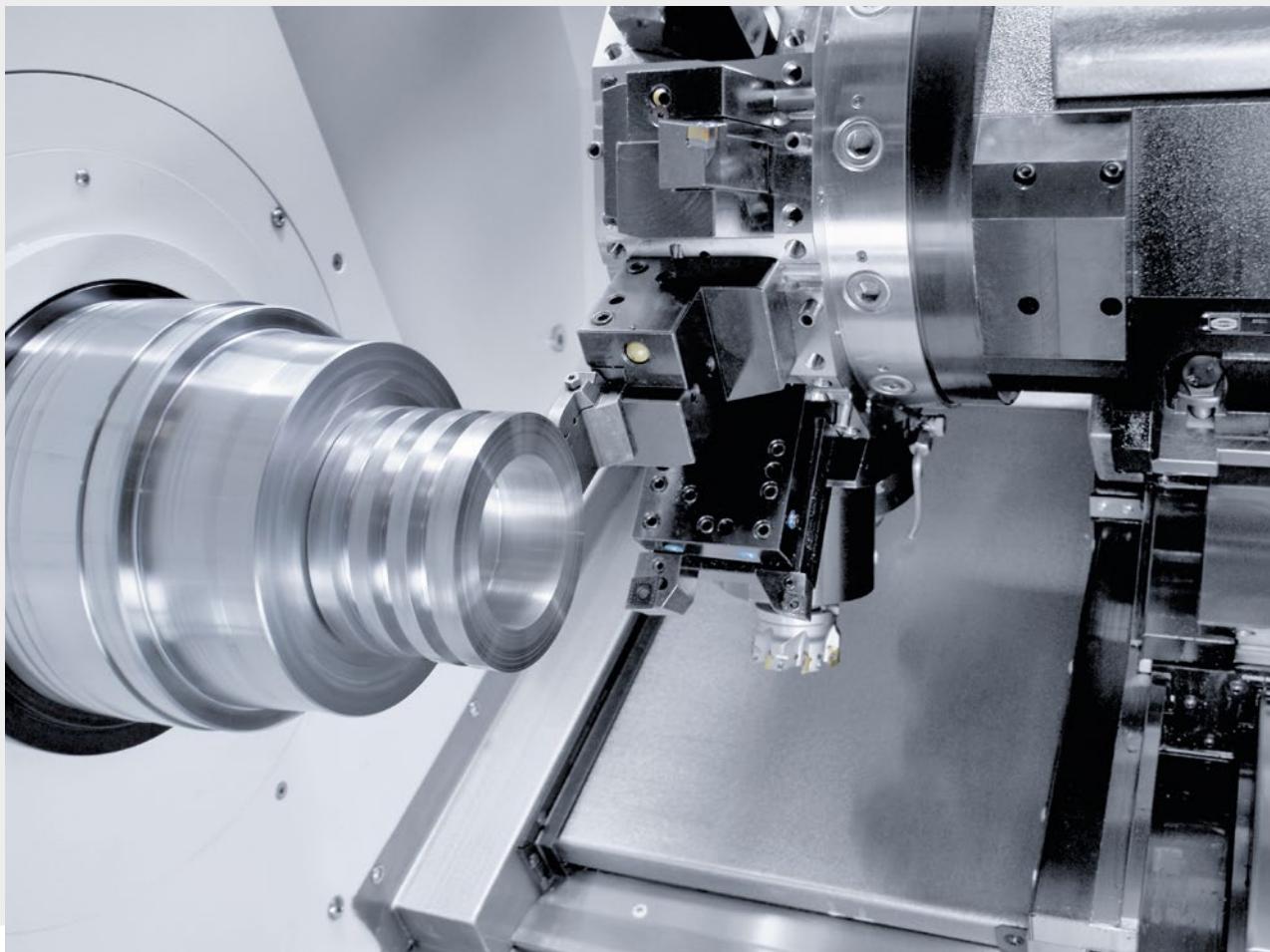


## CTX 2500

# Maximum cutting performance with up to 1,200 Nm

- + Top dynamics thanks to integrated spindle drive as standard with 4,000 rpm, 26 kW and 525 Nm (40 % DC)
- + The highest precision and temperature stability through water-cooled drive of the main and counter spindle
- + 6-sided complete machining with optional counter spindle

Type	Main spindle		Counter spindle	
	10" [standard]	12" [optional]	6" [optional]	8" [optional]
Drive speed	rpm	4,000	3,000	7,000
Power (40 % / 100 % DC)	kW	26/22	30/25	11/7.5
Torque (40 % / 100 % DC)	Nm	525/410	1,200/925	70/50
Bar capacity	mm	76	102	37
				66



## INTEGRATED SPINDLE MOTOR

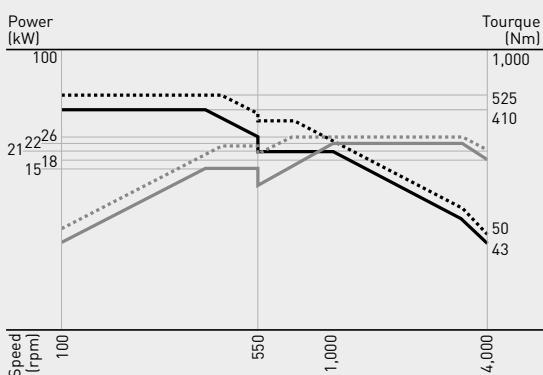
- + 4-way bearing
- + 33% larger ball diameter ( $\varnothing 20\text{ mm}$ ) for maximum carrying capacity (445 kN)
- + 15% longer bearing service life compared to the predecessor
- + Two times more rigid compared to an ISM 102 (2,300 N/ $\mu\text{m}$ )
- + CC-axis accuracy < 5 arc seconds
- + Rotary encoder from Magnecale



### Main spindle

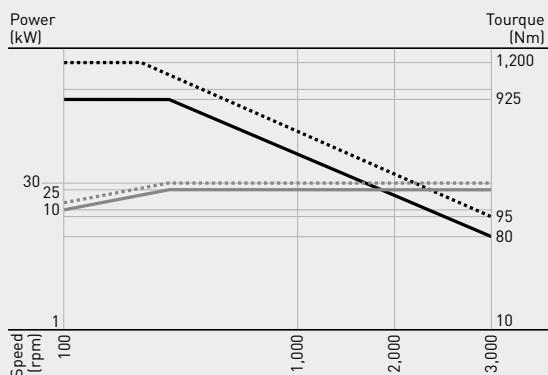
#### 10" turnMASTER

4,000 rpm / 26 kW / 525 Nm



#### 12" turnMASTER\*

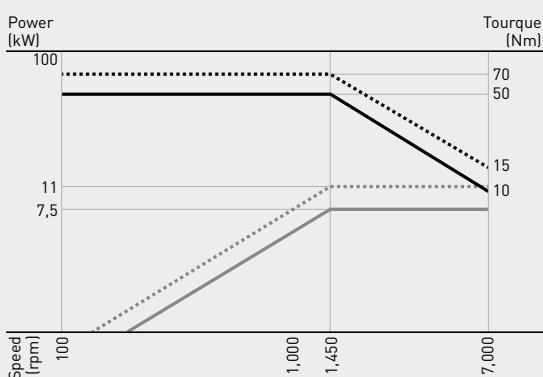
3,000 rpm / 30 kW / 1,200 Nm



### Counter spindle

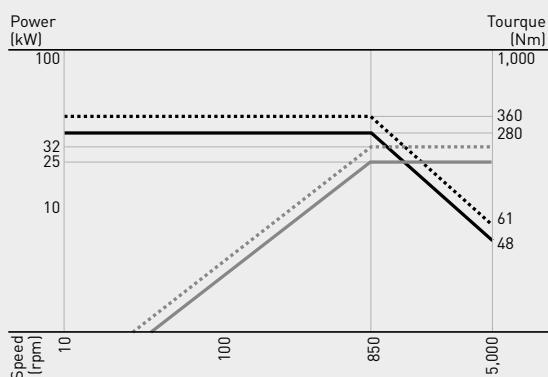
#### 6" turnMASTER\*

7,000 rpm / 11 kW / 70 Nm



#### 8" turnMASTER\*

5,000 rpm / 32 kW / 360 Nm



\* Optional

..... 40% ED — 100% ED

CTX 2500

# State-of-the-art turret for any application

## HIGHLIGHTS

- + **High-precision turret** for maximum precision and 6,000 rpm
- + **DirectDrive turret** with up to 85 Nm max. torque or 12,000 rpm (star turret)
- + **All tool stations are driven and continuous loadable** with 100 % drive speed
- + **VDI** Tool holder for extremely short tool mounting times

	CTX 2500   700 CTX 2500   1250	CTX 2500   700 CTX 2500   1250	CTX 2500   700 CTX 2500   1250
Version	MC	Y	SY
turnMASTER spindle	•	•	•
HPT turret	•	•	-
Tailstock	•	•	-
torqueDRIVE turret	-	○	●
speedDRIVE turret	-	○	○
Counter spindle	-	-	●
Y-axis	-	•	•

• Standard   ○ option   - not available

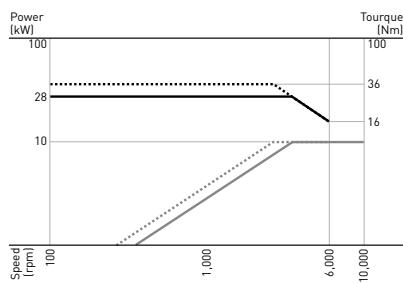
## HIGH-PRECISION TURRET

- + VDI 40 interface // VDI 30 optional
- + 12 tool stations // 16 optional
- + All tool stations are driven and continuous loadable with 6,000 rpm
- + Up to 70 kg tool weight in total



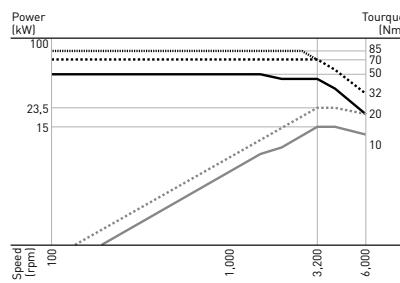
### High-precision turret

VDI 40, 6,000 rpm, 36 Nm



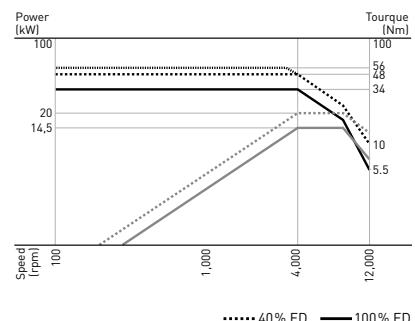
### torqueDRIVE

VDI 40, 6,000 rpm, 85 Nm

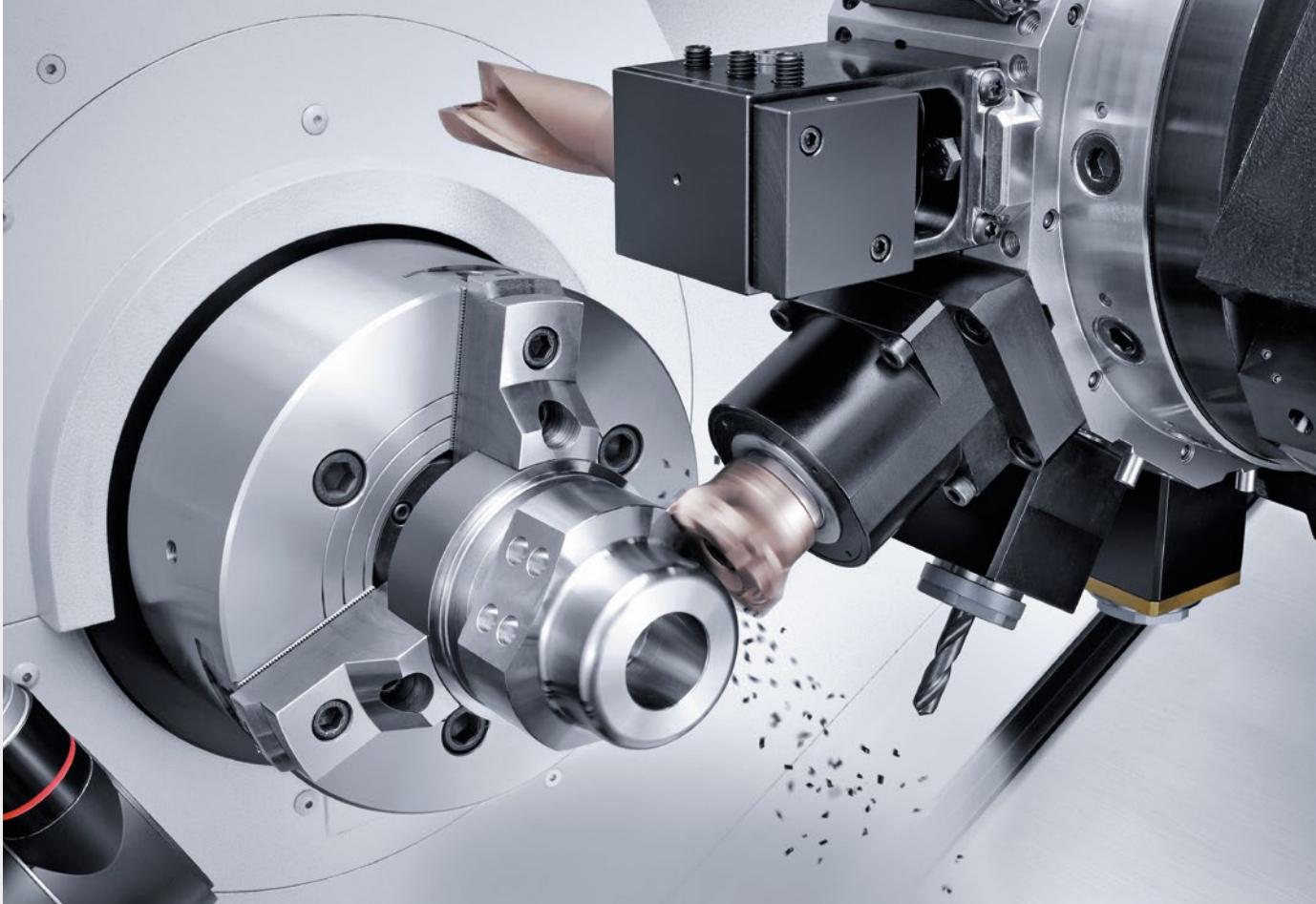


### speedDRIVE

VDI 40, 12,000 rpm, 56 Nm



..... 40% ED   — 100% ED



## torqueDRIVE with 85 Nm torque / speedDRIVE with 12,000 rpm

### torqueDRIVE TURRET

- + 85 Nm maximum torque
- + 6,000 rpm max. speed
- + Standard for all SY machines
- + Optional for Y-machines
- + Up to 200 kg tool weight

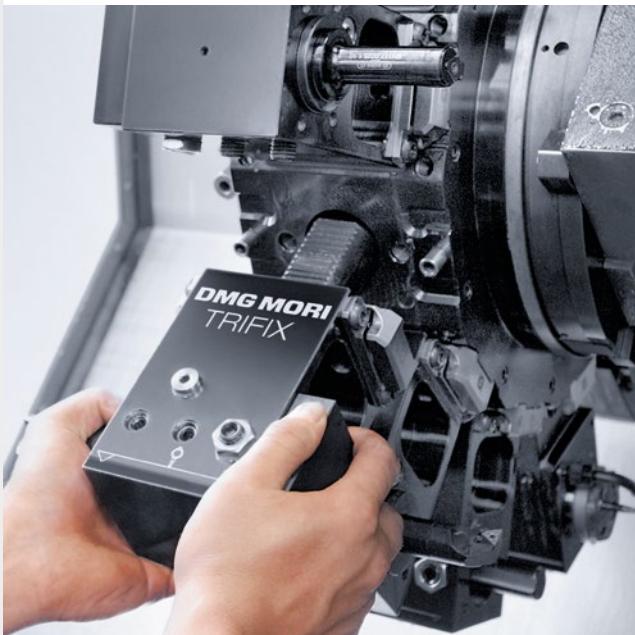
### speedDRIVE TURRET

- + 56 Nm maximum torque
- + 12,000 rpm max. speed
- + Optional for Y- and SY-machines available
- + Up to 200 kg tool weight

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### TRIFIX®: FAST, PRECISE AND VDI COMPATIBLE SETUP

- + Standard for all star turrets
- + <30 sec. tool setup time through VDI with TRIFIX®
- + **Maximum stability and long-term accuracy:** free from play and spring-loaded double centring with increased rigidity thanks to large interface with bolt-hole pattern
- + **<6 µm repeatability** (same tool, same position)
- + **<10 µm positioning accuracy from one station to the next**
- + Fully aligned driven tools, able to be used with VDI holder
- + Use of large tools with a gear reduction of up to **4:1** thanks to the compact design of the turret



Highlights

**Machine and Technology**

Applications and Parts

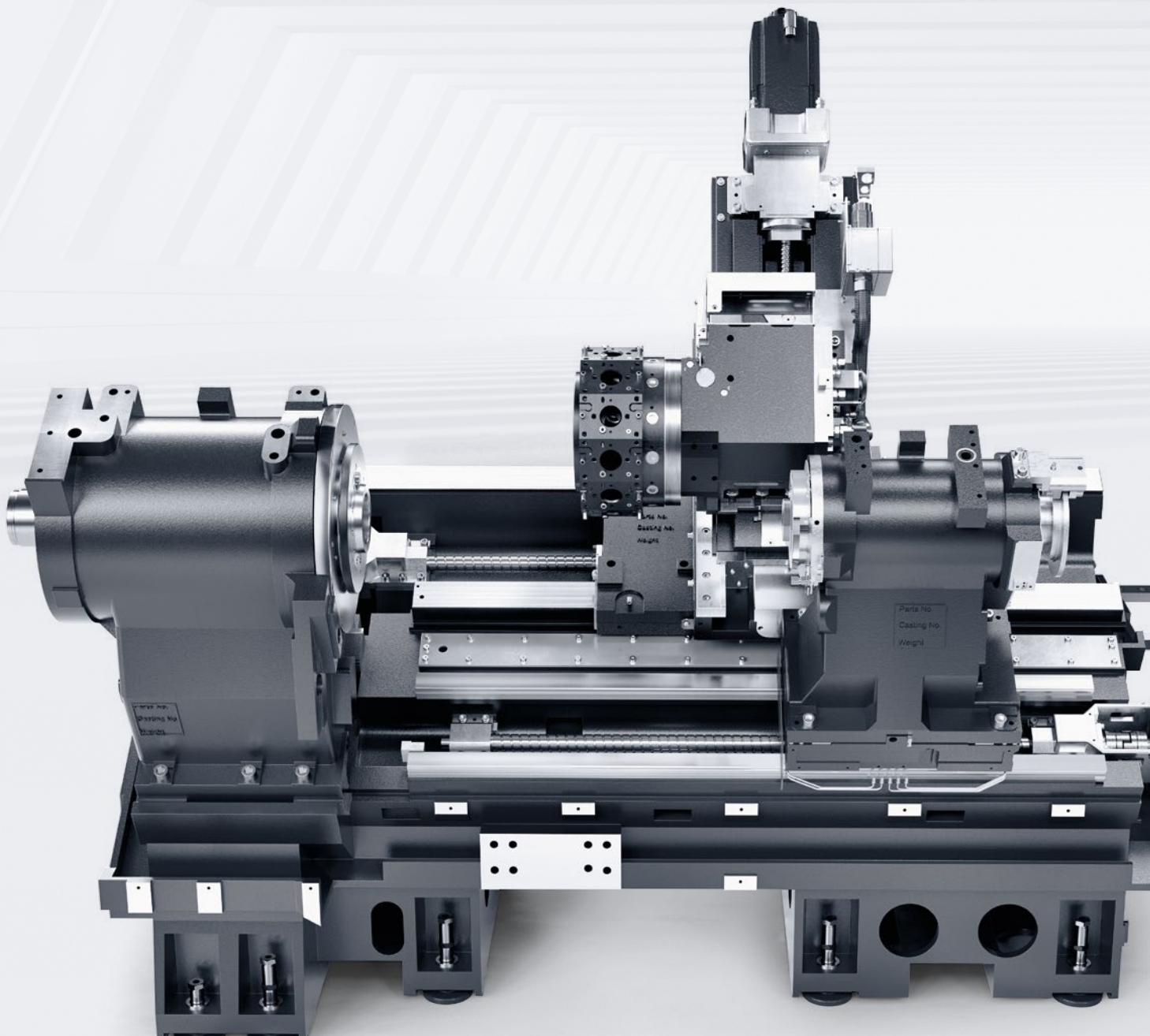
Control Technology

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CTX 2500

## Demand-based expansion stages for universal requirements



## STAR TURRET

- + 85 Nm maximum torque and 6,000 rpm
- + 12,000 rpm drive speed and 56 Nm torque optional
- + VDI with TRIFIX® for fastest setup
- + Optional with BMT-Interface for maximum stability



## MAIN SPINDLE UP TO CHUCK SIZE 400 mm

- + Max. 4,000 rpm and 26 kW with 525 Nm
- + Or max. 3,000 rpm and 30 kW with 1,200 Nm
- + Water-cooled and 4-way bearing



## COUNTER SPINDLE UP TO CHUCK SIZE 250 mm

- + Max. 7,000 rpm and 11 kW with 70 Nm
- + Or 5,000 rpm and 32 kW with 360 Nm



## STEADY REST

- + Tailored steady rest with hydraulic clamping
- + Clamping range up to 180 mm
- + Optionally with quick-change system
- + Special steady rests on request



CTX 2500

## Design and user-friendliness in harmony

### COOLANT TANK THAT PULLS OUT TO THE FRONT

- + Incl. 370 liter coolant tank
- + Cleaning does not take up extra space



### INTERFERENCE PREVENTION POCKET

- + To prevent interference caused by long tools



### COOLING UNIT FOR OIL / HYDRAULIC UNIT

- + Direct access to the rear of the machine
- + Direct access to the clamping pressure adjustment



### CHIP CONVEYOR POSITION

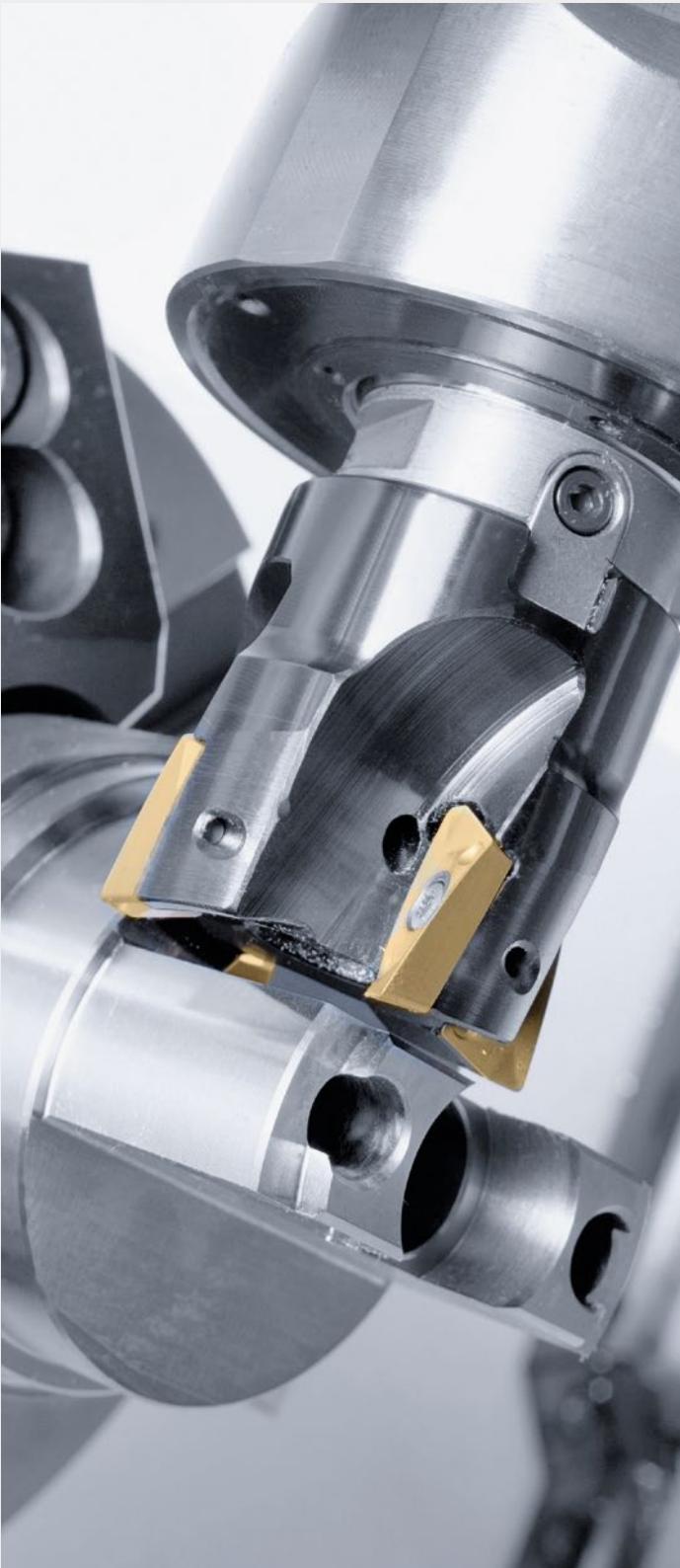
- + Can be positioned at the rear as an option to suit individual space requirements (e.g. GX loader)
- + Bar feed and bar unloading possible





CTX 2500

## Technology expertise



### OPTIONS

- + Customized configuration thanks to modularity (e.g. quick-change steady rest)
- + Accuracy: Linear scales for all axes (X-axis as standard)
- + Extremely powerful motors for all movable parts
- + Colour of choice for the machine for optimal integration into the production line

### PREMIUM SUPPORT

- + Customized technology solutions (development of technologies, job-time calculation, demonstration, preliminary acceptance, start-up support)
- + CE-certified customer solutions directly from the supplier (automation, bar loader, band filter system, etc.)
- + Proximity to the customer, open and appealing assembly
- + The highest quality requirements for every component used

### THE MOST PROGRESSIVE SOFTWARE SOLUTIONS

- + Use of the latest control versions — across all model series
- + Technology Cycles as an add-on to SIEMENS control systems with the highest user friendliness worldwide (e.g. control of program condition — with GILDEMEISTER structure programming)

## Technology component

Material: Ck45

Dimensions:  $80 \times 80 \times 220$  mm

Machining time: 18 min.

### HIGHLIGHTS:

- + High-performance turning  
 $v_c = 220$  m/min,  
 $a_p = 8$  mm,  $f = 0.45$
- + High-performance turning  $\phi 50$ ,  
 $a_p = 7$  mm,  $f = 0.2$
- + High-performance drilling  $\phi 35$  with the turret,  
 $v_c = 120$  m/min,  $f = 0.15$

### TECHNOLOGY CYCLES:

1 gearSKIVING

2 Easy Tool Monitoring 2.0

3 Multi-Threading Cycle 2.0

4 Alternating Speed

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## Technology component

Material: Ck45

Dimensions:  $\phi 250 \times 400$  mm

Machining time: 28 min

### HIGHLIGHTS:

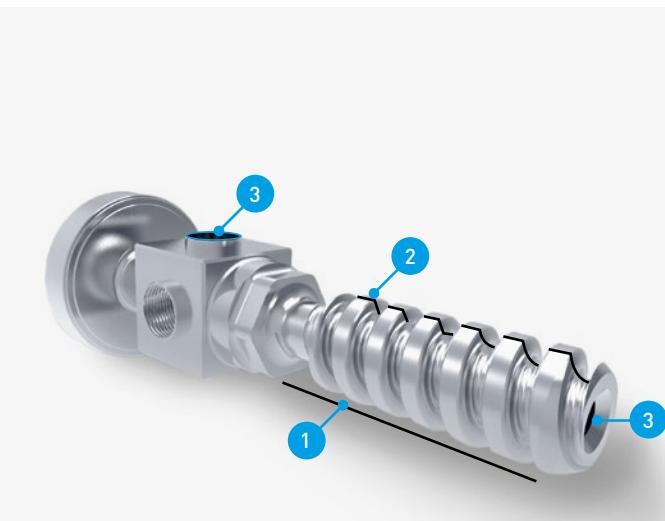
- + Turning  
 $a_p = 3$  mm,  $f = 1.4$

### TECHNOLOGY CYCLES:

1 Easy Tool Monitor 2.0

2 Multi-Threading Cycle 2.0

3 Alternating Speed



CTX 2500

## CELOS – From the idea to the finished product

### Simple

- + Simple machine operation for all new high-tech machines from DMG MORI

### Continuous

- + CELOS simplifies and accelerates processes from the idea to the finished product
- + Intuitive and simple user interface
- + Faster, more effective and error-free production processes
- + Networking option of the machine with the company organization
- + Complete multi-machine management
- + High process reliability and structured processes

### Compatible

- + Compatible with PPS and ERP systems
- + Can be networked with CAD/CAM products
- + Open to pioneering CELOS app extensions

### ERGOline CONTROL WITH 21.5" MULTI-TOUCH-SCREEN AND SIEMENS CONTROL

- + Dialogue-based programming
- + 3D graphics including real-time simulation
- + Ample diagnosis for all drives
- + Simplest graphical programming
- + User diagrams for quick set-up



## DMG MORI TECHNOLOGY CYCLES

# Exclusiv Technology Cycles – Complex machining easily realized!

DMG MORI exclusive technology cycles are the true assistants of the production-oriented programming 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



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## AVAILABLE TECHNOLOGY CYCLES FOR CTX UNIVERSAL TURNING MACHINES

### Polygon-/Oval-Turning

Programming and fine tuning of the required Shape, Capto or Oval, realizable in a few steps

### Gear hobbing

Programming the gear parameters for straight, helical, curved and worm wheels via dialog input

### Counter spindle tip

Cycle for automatic replacement of a Tailstock tip in the chuck of the counter spindle via the tool carrier

### Control of program status

Display of the workpiece number and workpiece data; facilitates resuming work after the program is interrupted

### gearSKIVING 2.0

Straight and helical external or internal spur gears and splines up to 8 times faster in comparison to gear shaping

### Excentric turning and milling

Eccentric geometries simply dialog-controlled produce, while the exact axis coupling and Synchronization in the background is running

### Retraction Cycle

By pushing the associated key the X-axis and the Y-axis travel to the positive end-positions for external machining

### Runtime Monitor

Application for time analysis of the production process and as a basis for the cycle time optimization

### **Alternating speed**

Avoiding vibrations of tools by means adaptation of the speed

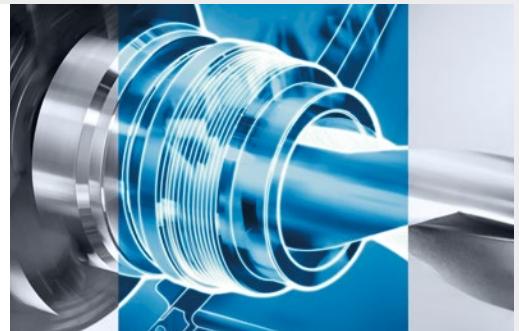
- + Easy to operate through three parameters and without additional sensors
- + No manual intervention by the operator
- + Identical repeatability for all components
- + Increased process safety for special applications by avoiding vibrations



### **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



### **Y-Axis Parting**

The new highly productive Y-axis parting method is amazingly easy to use with the technology cycle

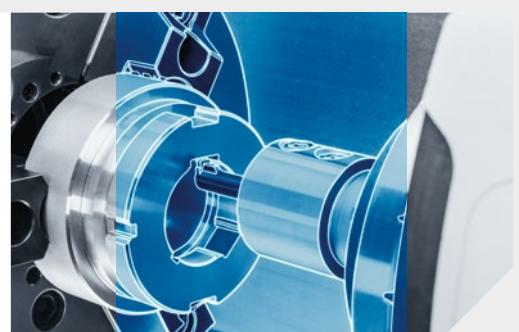
- + Compatible with the standard cycle CYCLE92 (Part off cycle), so that the operator can program as usual (ShopTurn and DIN/ISO)
- + Up to three times higher productivity possible (3x feed) with simultaneously improved chip control



### **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



## CELOS APPS – DIGITAL PRODUCTS AND SOLUTIONS FOR THE ENTIRE PROCESS CHAIN

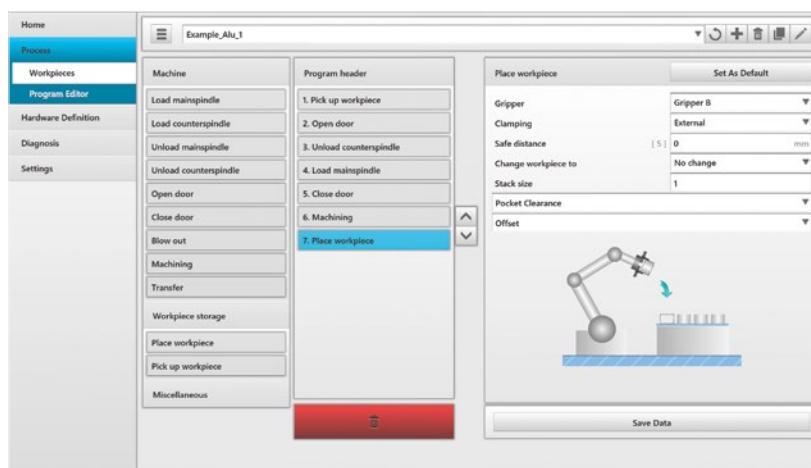


### PRODUCTION COCKPIT\*

**The overall production at a glance**

- + Transparency for production planners, optimizers and maintenance staff
- + Status display of each production order including remaining times
- + Clear visualization of production-relevant information

\* optional

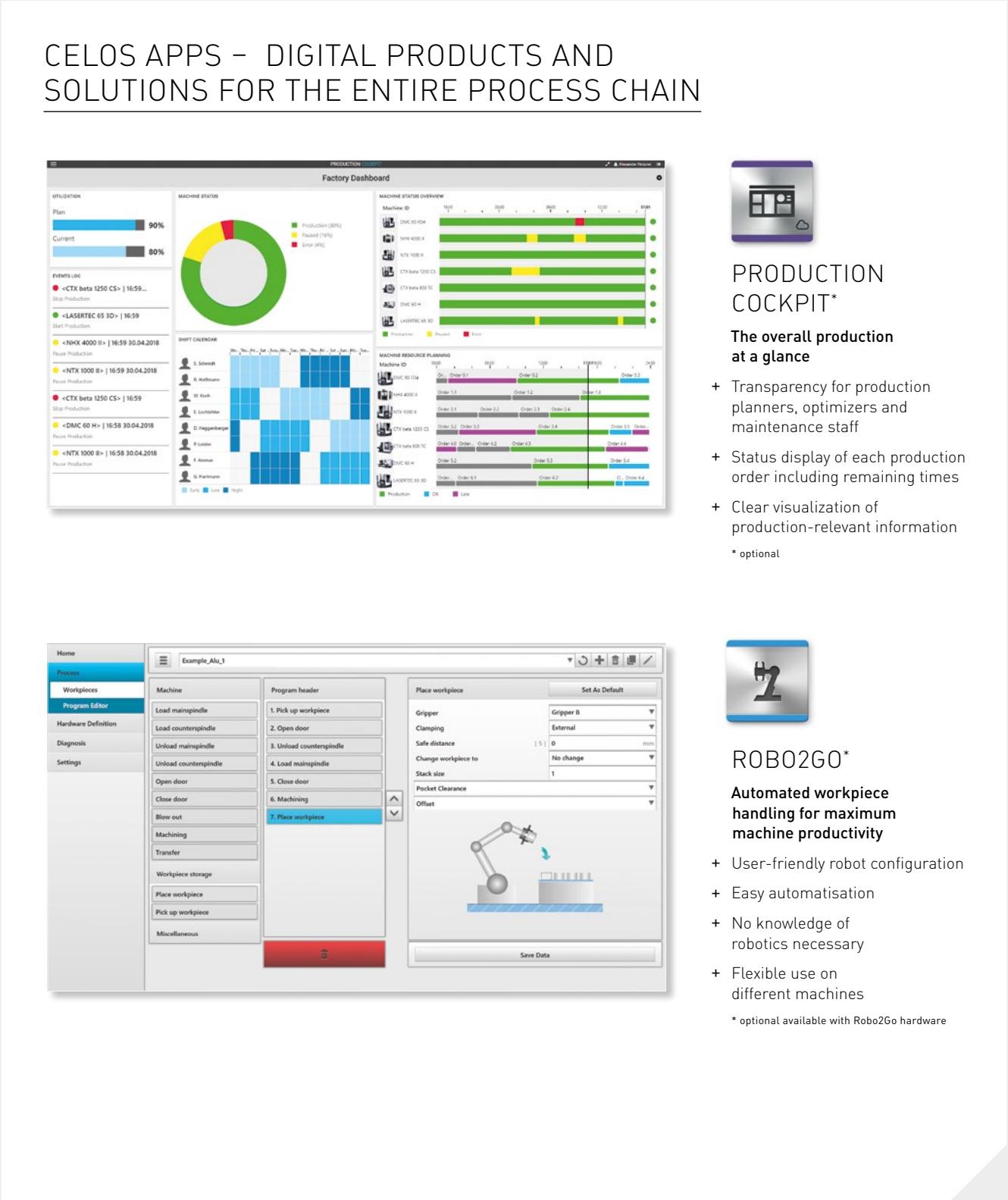


### ROBO2GO\*

**Automated workpiece handling for maximum machine productivity**

- + User-friendly robot configuration
- + Easy automation
- + No knowledge of robotics necessary
- + Flexible use on different machines

\* optional available with Robo2Go hardware



CTX 2500

# Customized automation

## BAR PACKAGE

The combination of bar loader and workpiece unloader for automatic machining of bar material

- + Signal lamp
- + Loader interface
- + Pickup device
- + Hollow clamping cylinder



## WORKPIECE UNLOADING

- + Ergonomic: Simple workpiece removal, no need to open the workroom door
- + Buffer storage for multi-machine operation

### Optimised conveyor belt

- + Ergonomic: semi-integrated conveyor belt
- + Conveying direction right for maximum compatibility to the bar



## ROBO2GO 2<sup>ND</sup> GENERATION

- + Three versions for all demands: Payload robot 10/20/35 kg
- + Handling of shafts ø25 – 150 mm and chuck parts ø25 – 170 mm in standard
- + Optimal accessibility to the machine
- + Parallel use with bar loader possible
- + Laser scanner for monitoring the fence-free safety zone



- + In the machine control integrated operation via CELOS APP
- + No robot programming knowledges necessary
- + Multijob function: Different jobs on one workpiece tray Ideal for small and medium batch sizes
- + Creation of a process with predefined program modules





**EXCLUSIV**  
FOR THE CTX 2500 | 700

## PORTAL LOADING SYSTEM GX 15 T

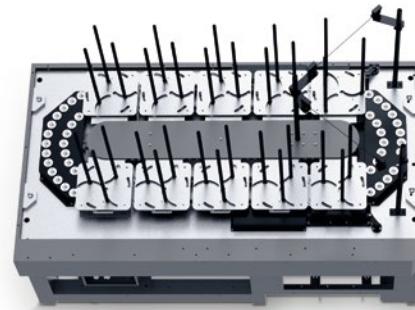
- + Low height of 3.4 m by means of telescopic axis
- + Workpiece weight up to  $2 \times 15$  kg with double gripper
- + Very low footprint of  $10.2 \text{ m}^2$
- + Control via machine operating panel  
GILDEMEISTER portal control
- + Easy and fast part removal via the front door for parts inspection



## GANTRY LOADER

Max. workpiece weight:	$2 \times 15$ kg
Axis speeds:	
X-axis:	75 m/min
Z-axis:	90 m/min

3-finger centric gripper with swivel axis for loading and unloading the main- and/or counter spindle



## WORKPIECE STOCKER

Number of pallets	10
Max. weight per pallet	75 kg
Max. stack height	470 mm

## COMPACT DOUBLE GRIPPER

Max. workpiece weight	$2 \times 15$ kg
Diameter	40 – 200 mm
Workpiece height	10 – 150 mm

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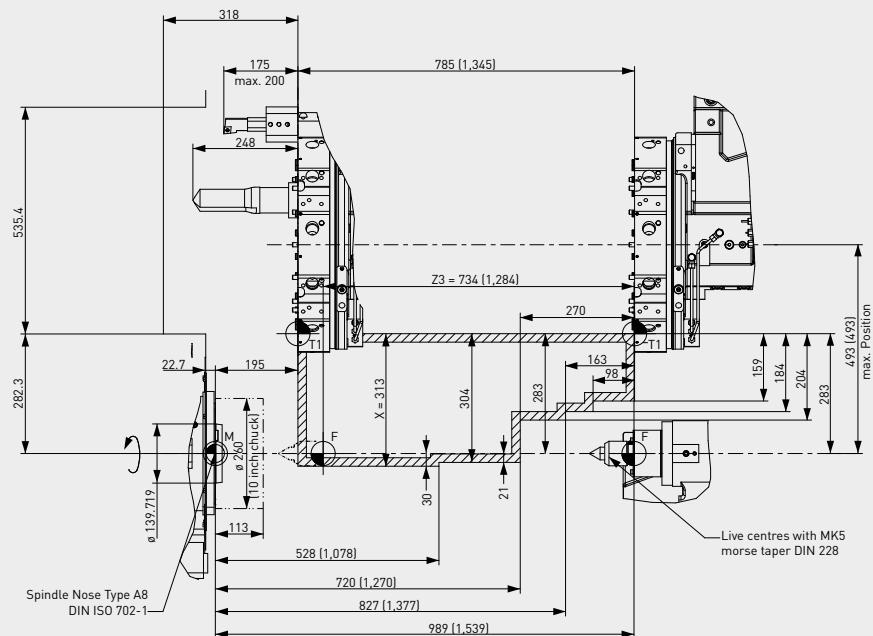
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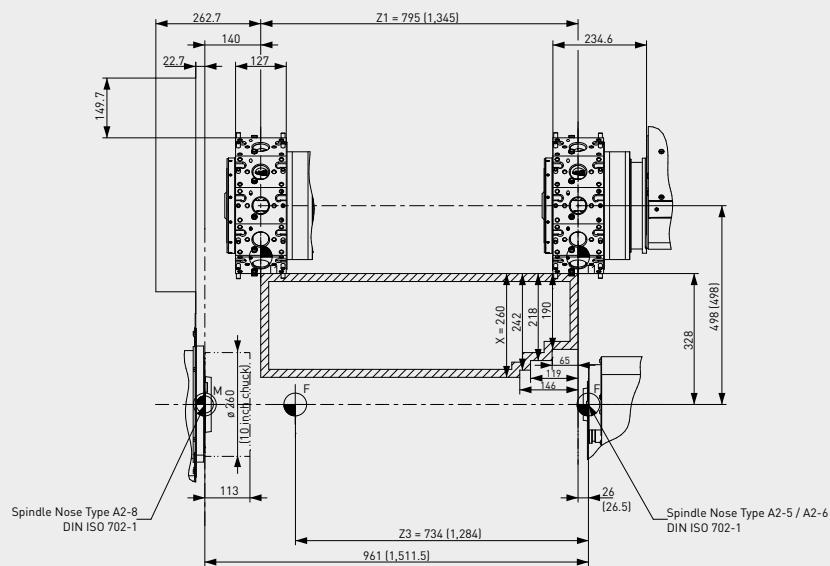
# Work area

CTX 2500 with tailstock

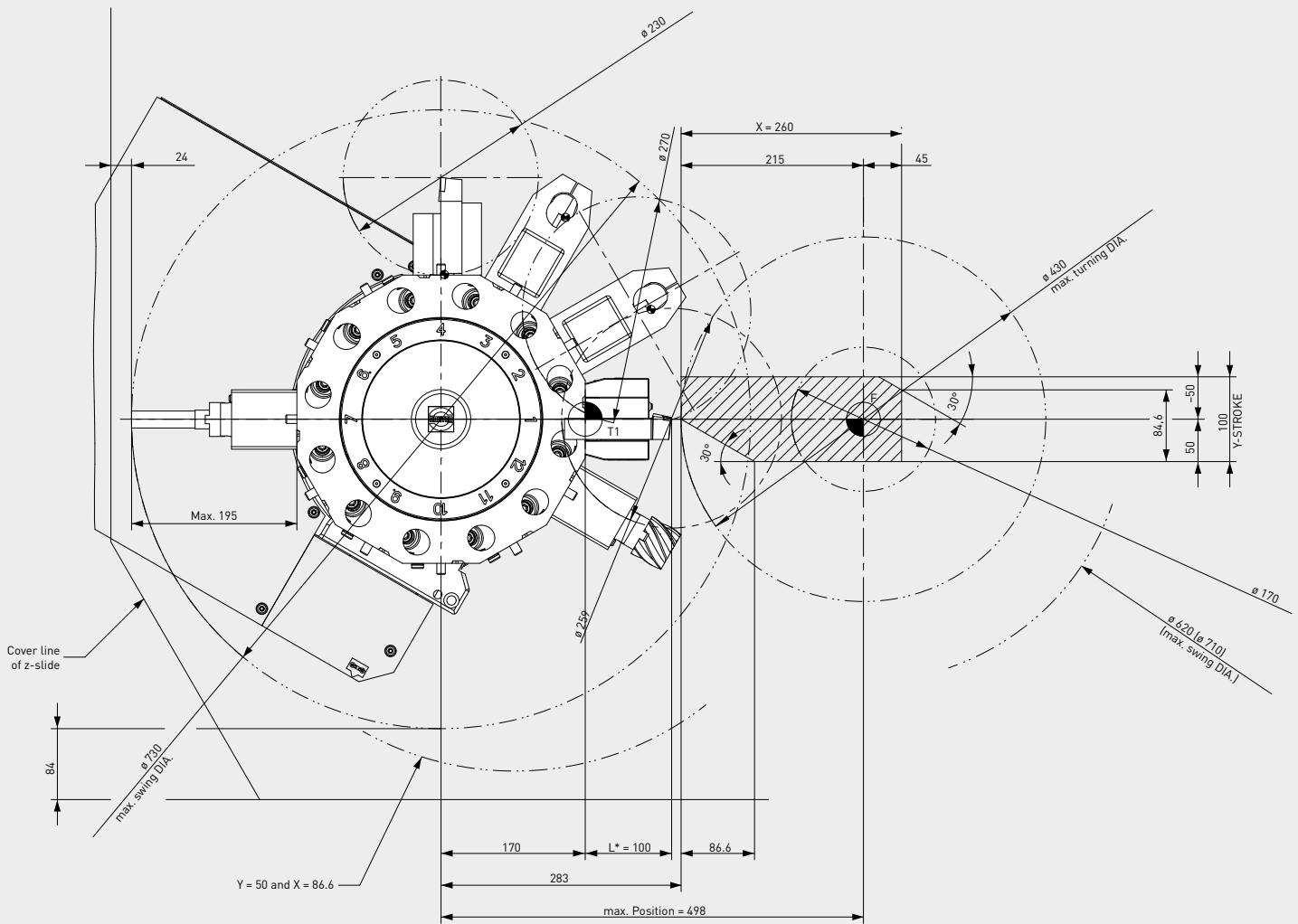


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CTX 2500 with counter spindle



torqueDRIVE / speedDRIVE turret



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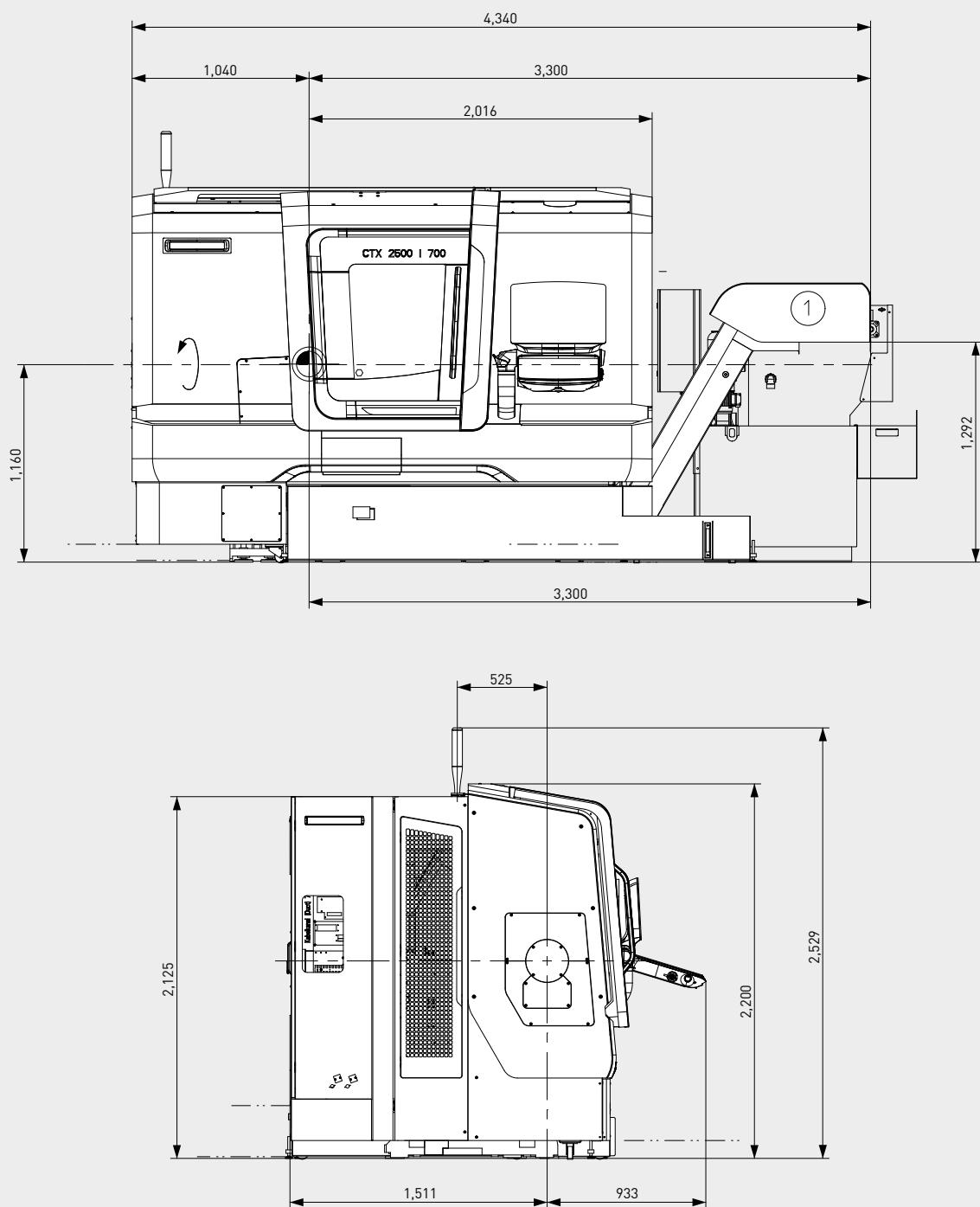
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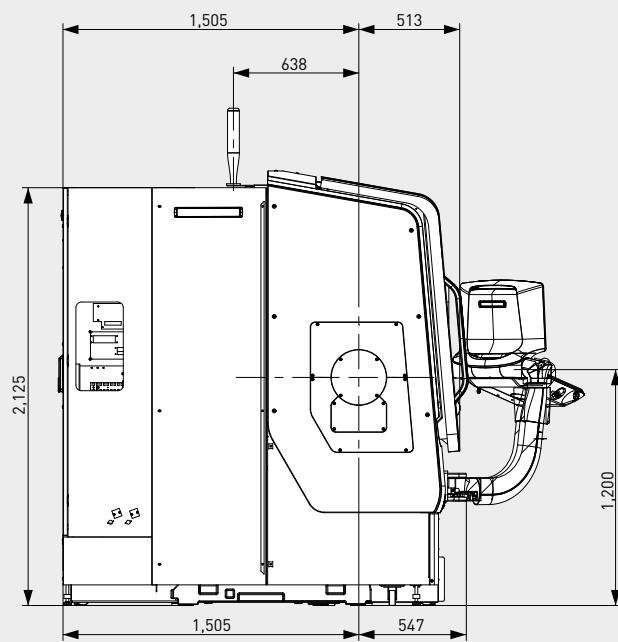
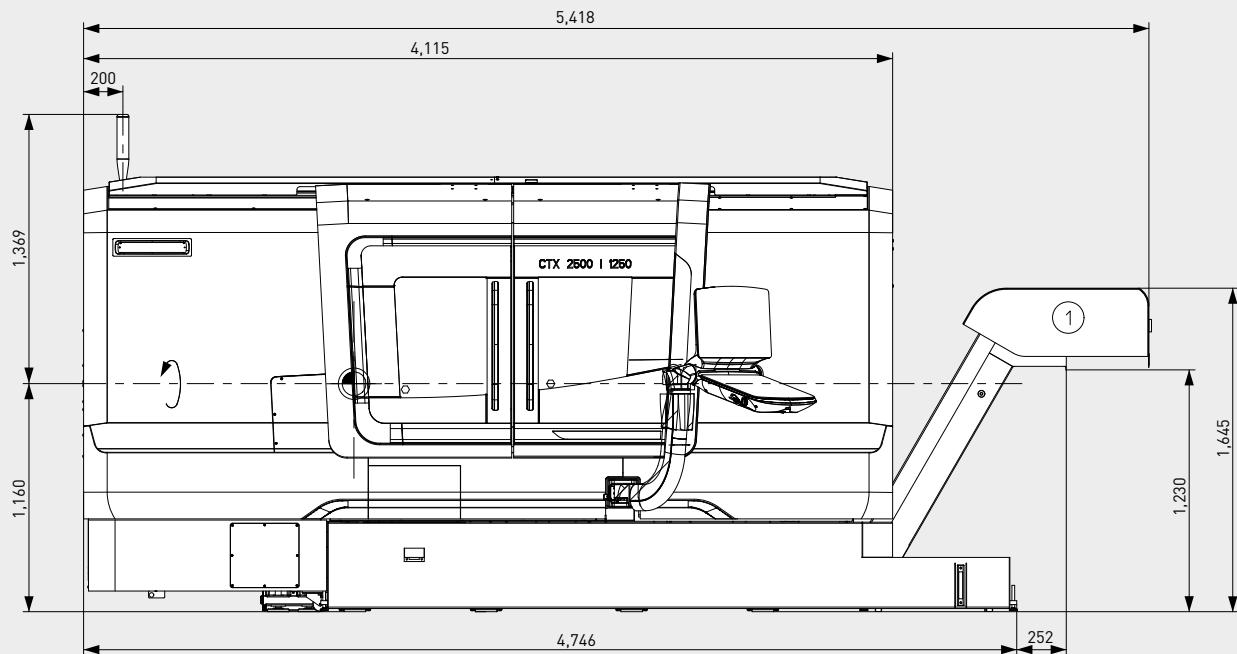
CTX 2500

# Layout plans

CTX 2500 | 700 front view and side view



CTX 2500 I 1250 front view and side view



CTX 2500

# Technical Data

Versions	CTX 2500   700	CTX 2500   700	CTX 2500   700
	MC	Y	SY
<b>Work area</b>			
Max. swing diameter over bed			
Max. Turning diameter	mm	620	620
Max. Turning length	mm	430	430
Distance from main spindle to tailstock (without chuck)	mm	734	734
Distance from main spindle to counter spindle (without chuck)	mm	884.6	884.6
		-	-
			961
<b>Main spindle (standard) / chuck size</b>			
Integrated spindle motor (ISM) with C-axis (0.001 °)	rpm	10"	10"
Drive power (40/100 % DC)	kW	4,000	4,000
Torque (40/100 % DC)	Nm	26/22	26/22
Spindle head (short taper adapter)	DIN ISO 702-1	525/410	525/410
Spindle diameter in the front bearing	mm	A2-8	A2-8
Spindle opening without clamping cylinder	mm	140	140
Max. chuck diameter	mm	91	91
		315 (400)	315 (400)
			315 (400)
<b>Counter spindle (optional)</b>			
Integrated spindle motor (ISM) with C-axis (0.001 °)	rpm	-	7,000
Drive power (40/100 % DC)	kW	-	11/7.5
Torque (40/100 % DC)	Nm	-	26/22
Spindle head (short taper adapter)	DIN ISO 702-1	-	A2-5
Spindle diameter in the front bearing	mm	-	85
Spindle opening without clamping cylinder	mm	-	37
Max. chuck diameter	mm	-	203
<b>Turret (standard)</b>			
Tool holder in accordance with VDI/DIN 69880	mm	12 × VDI 40	12 × VDI 40
Number of driven tools/max. speed	rpm	12/6,000	12/6,000
Drive power/torque (40/100 % DC)	kW/Nm	10/36	10/36
Indexing time 30°	seconds	0.2	0.2
<b>Turret slides (top)</b>			
X/Y/Z	mm	260/-/795	260/±50/795
Rapid traverse X/Y/Z	m/min	30/-/30	30/10/30
Feed force X/Y/Z	kN	6/-/10.5	6/5.5/10.5
<b>Slide for counter spindle</b>			
Z	mm	-	795
Rapid traverse speed Z	m/min	-	30
Feed force Z	kN	-	7
<b>Tailstock</b>			
Axis	mm	734	734
Force	kN	7	7
Tailstock centre	MK	5	5
Machine weight	kg	5,820	6,140
<b>Control system</b>			
Operate 4.7 on SIEMENS 840D sl		•	•
CELOS from DMG MORI with SIEMENS and ShopTurn 3		•	•
ERGOline control with 21.5" multi-touch screen		•	•

Versions	CTX 2500   1250 MC	CTX 2500   1250 Y	CTX 2500   1250 SY
<b>Work area</b>			
Max. swing diameter over bed			
mm	710	710	710
Max. Turning diameter	mm	430	430
Max. Turning length	mm	1,284	1,284
Distance from main spindle to tailstock (without chuck)	mm	1,434.6	1,434.6
Distance from main spindle to counter spindle (without chuck)	mm	-	1,511
<b>Main spindle (standard)/chuck size</b>			
Integrated spindle motor (ISM) with C-axis (0.001 °)	rpm	4,000	4,000
Drive power (40/100 % DC)	kW	26/22	26/22
Torque (40/100 % DC)	Nm	525/410	525/410
Spindle head (short taper adapter)	DIN ISO 702-1	A2-8	A2-8
Spindle diameter in the front bearing	mm	140	140
Spindle opening without clamping cylinder	mm	91	91
Max. chuck diameter	mm	315 (400)	315 (400)
<b>Counter spindle (optional)</b>			
Integrated spindle motor (ISM) with C-axis (0.001 °)	rpm	-	7,000
Drive power (40/100 % DC)	kW	-	11/7.5
Torque (40/100 % DC)	Nm	-	70/50
Spindle head (short taper adapter)	DIN ISO 702-1	-	A2-5
Spindle diameter in the front bearing	mm	-	85
Spindle opening without clamping cylinder	mm	-	37
Max. chuck diameter	mm	-	203
<b>Turret (standard)</b>			
Tool holder in accordance with VDI/DIN 69880	mm	12 × VDI 40	12 × VDI 40
Number of driven tools/max. speed	rpm	12/6,000	12/6,000
Drive power/torque (40/100 % DC)	kW/Nm	10/36	10/36
Indexing time 30°	seconds	0.2	0.2
<b>Turret slides (top)</b>			
X/Y/Z	mm	260/-/1,345	260/±50/1,345
Rapid traverse X/Y/Z	m/min	30/-/30	30/10/30
Feed force X/Y/Z	kN	6/-/10.5	6/5.5/10.5
<b>Slide for counter spindle</b>			
Z	mm	-	1,345
Rapid traverse speed Z	m/min	-	30
Feed force Z	kN	-	7
<b>Tailstock</b>			
Axis	mm	1,284	-
Force	kN	7	-
Tailstock centre	MK	5	-
Machine weight	kg	7,220	7,540
<b>Control system</b>			
Operate 4.7 on SIEMENS 840D sl		•	•
CELOS from DMG MORI with SIEMENS and ShopTurn 3		•	•
ERGOline control with 21.5" multi-touch screen		•	•

CTX 2500

# Options

	CTX 2500   700 CTX 2500   1250	CTX 2500   700 CTX 2500   1250	CTX 2500   700 CTX 2500   1250
Optional specifications	MC	Y	SY
turnMASTER spindle	•	•	•
HPT turret	•	•	–
Tailstock	•	•	–
torqueDRIVE turret	–	○	•
speedDRIVE turret	–	○	○
Counter spindle	–	–	•
Y-axis	–	•	•

• Standard ○ Optional – Not available

	Option
<b>Spindle</b>	
turnMASTER 12" main spindle, ISM 102	○
turnMASTER 6" counter spindle, ISM 36, Y-axis	○
turnMASTER 8" counter spindle, ISM 65, Y-axis	○
<b>Options for spindles</b>	
Hollow clamping device, ø 77 / ø 102 mm	○
Hollow spindle stop, ø 77 / ø 102 mm	○
Clamping pressure adjustment, motor-adj. valves	○
Dynamic two-pressure clamping	○
Dynamic two-pressure clamping, motor-adj. valves	○
<b>Collet chucks for main spindle</b>	
Three-jaw chuck, SMW, Schunk, etc.	○
Set of top jaws, soft, three units	○
Set of base jaws, three units	○
Collet chuck	○
<b>Collet chucks for counter spindle</b>	
Three-jaw chuck, SMW, Schunk, etc.	○
Set of top jaws, soft, three units	○
Set of base jaws, three units	○
Collet chuck	○
<b>Tool turret</b>	
12-station star turret, torqueDRIVE, VDI 40	○
12-station star turret, speedDRIVE, VDI 40	○
12-station star turret, torqueDRIVE, BMT 60	○
16-station star turret, speedDRIVE, VDI 30	○
16-station disc turret, VDI 30	○
<b>Options for the axes</b>	
Y-axis for tailstock machine	○

	Option
<b>Tailstock</b>	
Tailstock function for the counter spindle	<input type="radio"/>
Machine without tailstock, reduced price	<input type="radio"/>
<b>Steady rest</b>	
Steady rest slide, automatic positioning	<input type="radio"/>
Steady rest quick-change system	<input type="radio"/>
Steady rest carrier for steady rest, 8 – 101 mm	<input type="radio"/>
Steady rest carrier for steady rest, 20 – 165 mm (only for CTX 2500   700)	<input type="radio"/>
SLU-X2 steady rest, clamping range 8 – 101 mm	<input type="radio"/>
SLU-X3.1 steady rest, clamping range 20 – 165 mm (only for CTX 2500   700)	<input type="radio"/>
Steady rest K2, clamping range 25 – 180 mm (only for CTX 2500   1250)	<input type="radio"/>
<b>Coolant media / chip removal</b>	
Chip conveyor hinged type	<input type="radio"/>
Chip conveyor scraper type	<input type="radio"/>
Extension of the discharge chute about 300 mm	<input type="radio"/>
Machine preparation for fine metal chips	<input type="radio"/>
Duplex filter	<input type="radio"/>
Reinforced coolant pump, 12 bar, 23 l/min	<input type="radio"/>
Reinforced coolant pump, 5 – 20 bar, frequency controlled	<input type="radio"/>
BFA 8/20 bar, 600 l/980 l/980 l with cooler	<input type="radio"/>
BFA 8/20/80 bar, 980 l with cooler	<input type="radio"/>
Mechanical oil mist filter 600 m³/h/1,100 m³/h	<input type="radio"/>
Chuck rinsing device, outside, main spindle/counter spindle	<input type="radio"/>
Coolant spray gun	<input type="radio"/>
Glass cleaning for safety glass	<input type="radio"/>
<b>Measuring / monitoring</b>	
Tool measuring device in work area, manual up to a chuck ø of 400 mm	<input type="radio"/>
Tool measuring device in work area, automatic up to a chuck ø of 315 mm	<input type="radio"/>
Drill breakage monitoring, swing wire, 1.4 – 32 mm	<input type="radio"/>
Tool monitoring system ARTIS CTM	<input type="radio"/>
Glass scale for Y-axis	<input type="radio"/>
Glass scale for Z-axis	<input type="radio"/>
<b>Automation</b>	
Portal loading system GX 15 T (only for CTX 2500   700)	<input type="radio"/>
Four-colour signal lamp	<input type="radio"/>
Automatic work area door, electric	<input type="radio"/>
Bar machining package, ø 77 mm	<input type="radio"/>
Bar machining package, ø 102 mm	<input type="radio"/>
Bar loading magazine, IRCO, type SiMag 80.1R	<input type="radio"/>
Short bar loading magazine	<input type="radio"/>
Electric interface for automation	<input type="radio"/>



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