

# PRIMINER



## GT7

Gantry Type High Speed 5-axis  
Machine Center

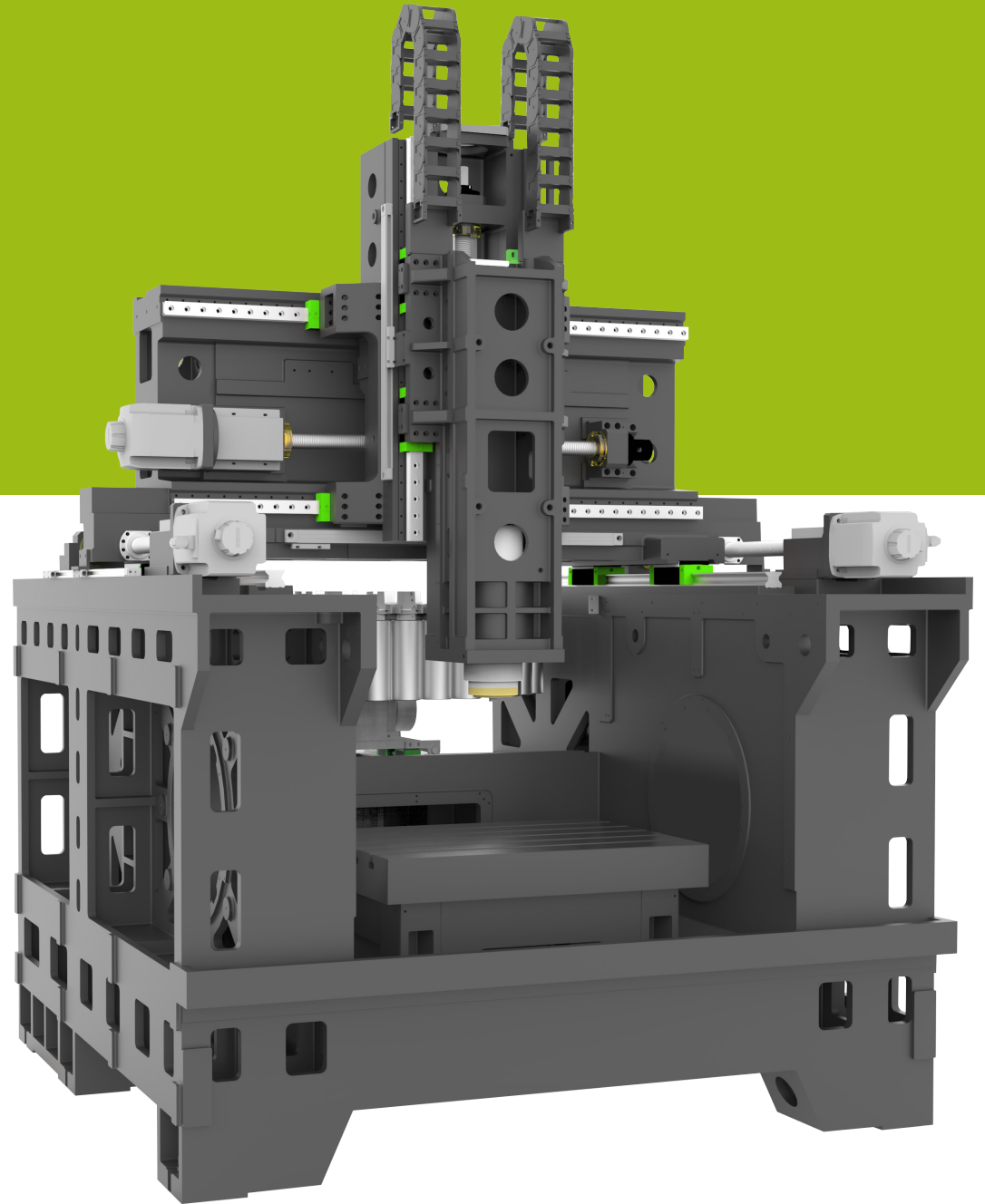


# GT7

## Gantry Type High Speed 5-axis Machine Center

### High Rigid Structure Design

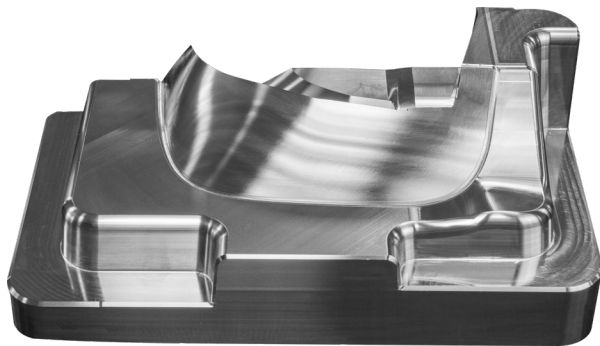
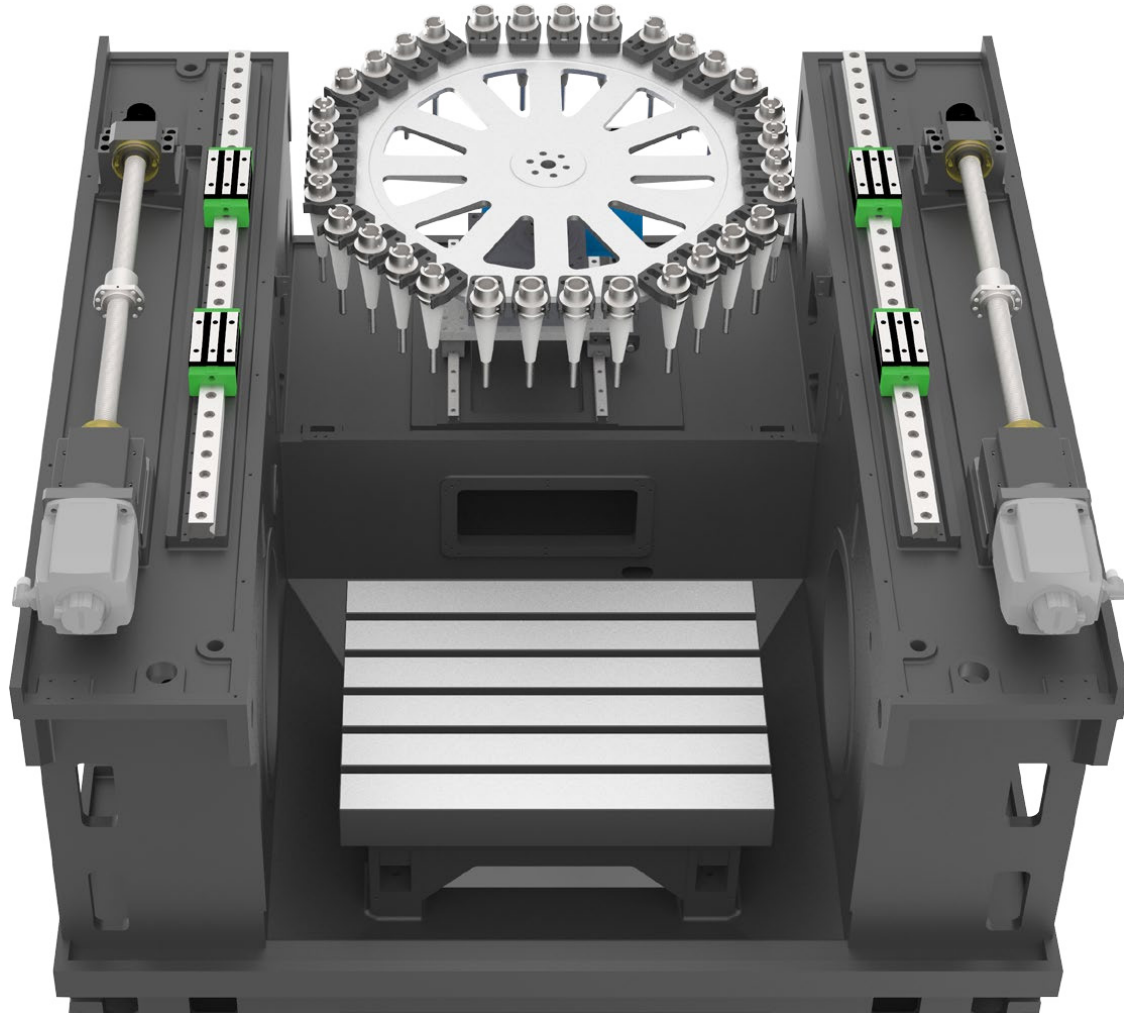
- Gantry-type structure design, X/Y/Z axes movement are separated from the machining area
- One-piece high-quality casting bed
- Dual drive on Y axis to ensure the best dynamic performance



# Standard 32 pockets tool change

- Max. tool length 300 mm
- Max. tool diameter 63 mm
- Max. tool weight 4 kg
- HSK E32 (Opt)
- Number of tools 48 pockets
- Max. tool length 250 mm
- Max. tool diameter 12 mm
- Max. tool weight 3 kg

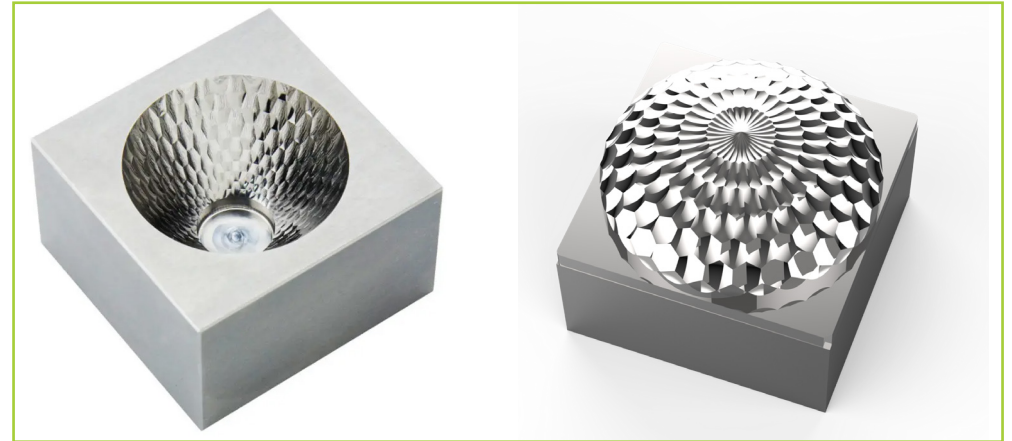
Y axis  
with dual  
direct drive



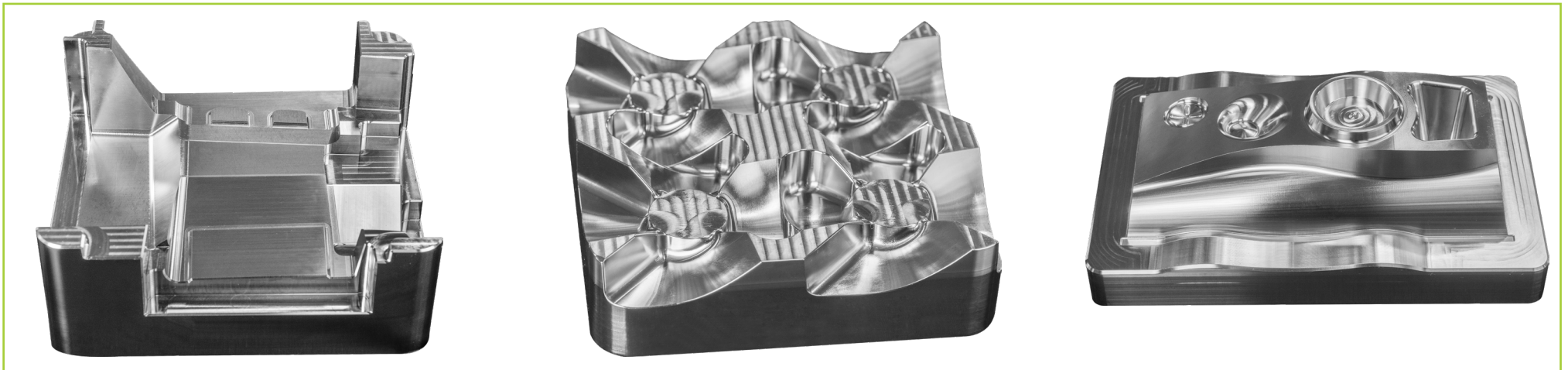
# Applications



Graphite

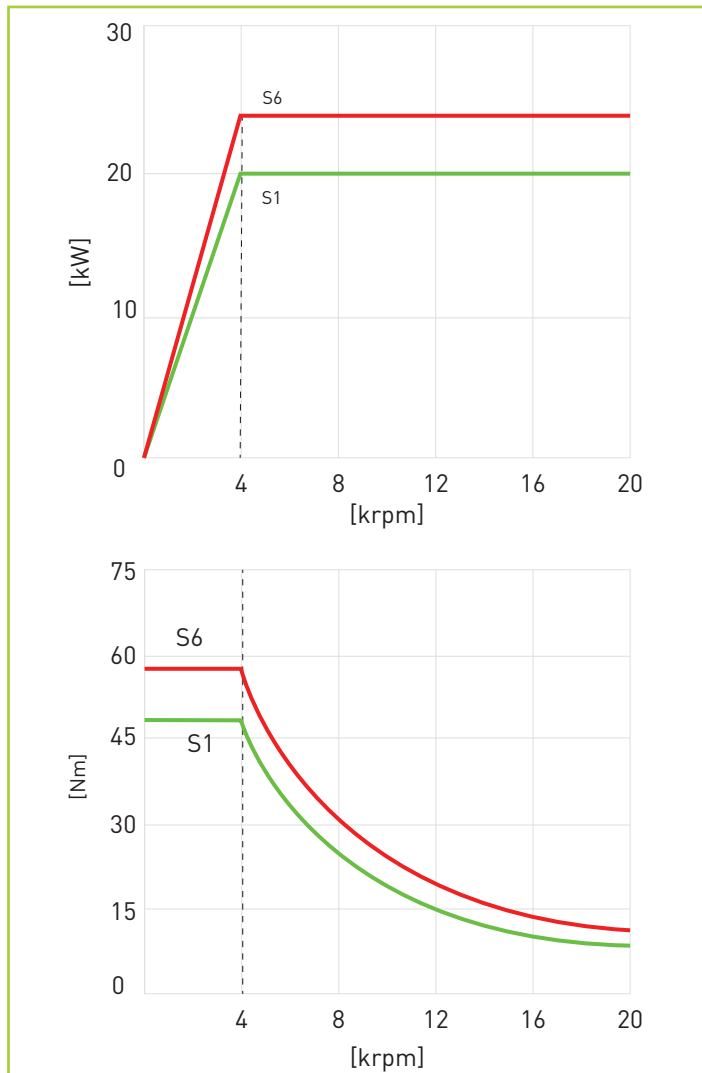


Automotive mold

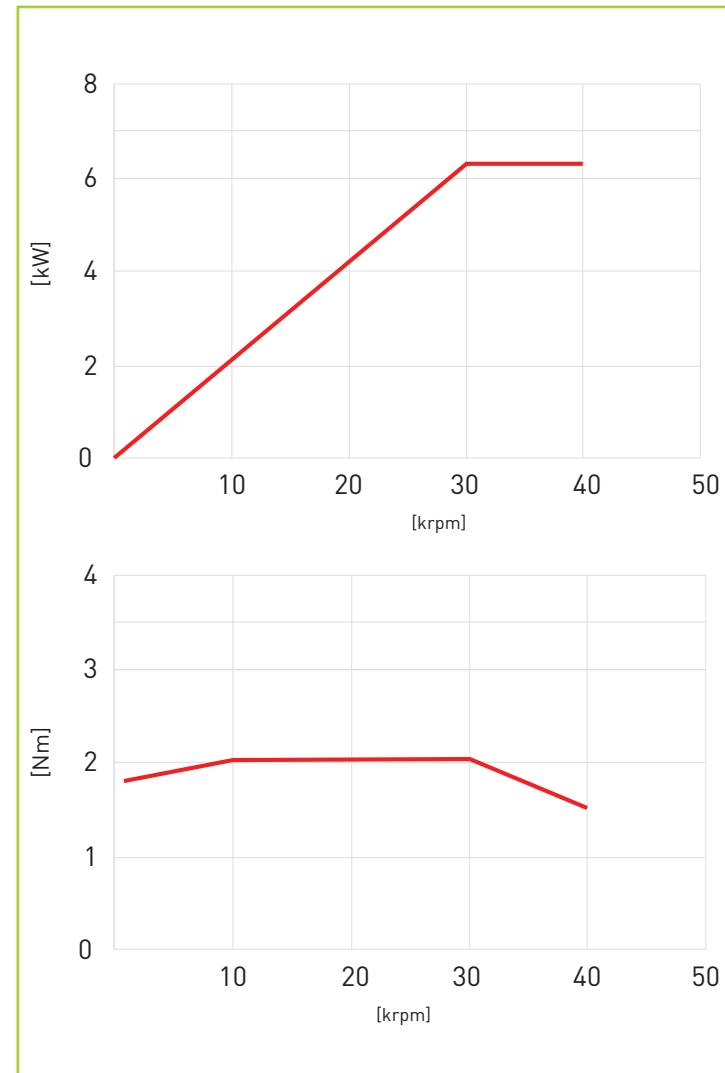


High precision mold

# Torque Diagram



HSK A63 20,000 rpm  
20 / 24 kW 48 / 58 Nm



HSK E32 40,000 rpm  
6.3 / 9.45 kW 2 / 3 Nm



# HEIDENHAIN TNC 640

The TNC contouring control for milling and milling-turning machines

Key features:

Intelligent-Dynamic Precision Machining

- Dynamic Collision Monitoring (DCM)
- Dynamic Efficiency
- Active Chatter Control (ACC)
- Adaptive feed control (AFC)
- Machine any contour slot with trochoidal milling

Fast and reliable machining at high contour fidelity

- Optimal tool guidance by the TNC 640

Programming, Editing, Testing and Automated machining

- A full range of possibilities with the TNC 640
- Graphical support in any scenario
- Straightforward function keys for complex contours
- Programming free contours and Data Matrix codes
- Easy calibration of rotary axes with Kinematics Opt

Tool measurement and Workpiece measurement

- Measuring length, radius, and wear inside the machine
- Setup, preset setting, and measuring with touch trigger probes
- Machining and measuring 3-D contours
- The TNC 640 makes setup easy

Open to outside information

- Processing CAD files with the TNC 640
- The TNC 640 programming station
- Uniformly digital job management with Connected
- Machining and measuring 3-D contours
- The TNC 640 makes setup easy

# SIEMENS SINUMERIK 828D

The perfect solution for all performance classes

## New Panel Processing Unit

- Higher processor performance
- Digital Input with higher voltage stability
- 1GB Ethernet interface X130
- Pull-relief for the DRIVE-CLiQ and PN cables
- More robust touch-operation 15,6" PPU290.4

Features for milling Cogging torque compensation and 2nd channel for milling

- System integrated function
- Drive-based function SINAMICS
- Automatic measure of the cogging torque
- Pre-control of periodic repetitive torque ripple
- Function available for rotative-, linear- and torque motors
- 2nd Channel Milling
- For both machining and handling & robot purpose

Nodding Compensation ECO/Advanced and Advanced

Position Control ECO

- Intelligent control based compensation
- New developed compensation algorithm
- System integrated function
- As a CNC and HMI feature
- Scalable function in 3 steps
- ECO
- Advanced
- Compile Cycle
- Commissioning support with HMI masks
- Additional input mask from SINUMERIK Operate

Higher speed, more accurate for the entry level

Tool Ident Connection

Jerk Adaption

Top Speed plus

Intelligent Load Control (ILC)

Intelligent Dynamic Control (IDC)



# SIEMENS SINUMERIK ONE

Platforms and digitalization drive innovations

Key features:

- Reduction of time to market
- Further individualization in mechanical engineering
- High quality and best possible availability
- Defined precision and increased productivity
- Safety of man and machine and security of individual property in the digital age
- High-performance processor and communication technologies
- Scalable intelligent control and drive technology
- Best safety and security standards
- Innovative digital engineering

An integrated solution along the entire value chain raises new potentials for machine builders and users

- The digital native CNC
- Development from VIRTUAL to REAL
- Scalable in VIRTUAL and REAL
- Intelligent and highly productive
- Digital Transformation of machine tools
- Maximize productivity
- Innovate faster
- Excite digitalization
- Discover a new way of thinking

Platforms and digitalization drive innovations

- Top Speed plus
- Intelligent Load Control
- Intelligent Dynamic Control
- Interpolation turning
- Configured stop
- Angle head adapter
- Identify tool demand

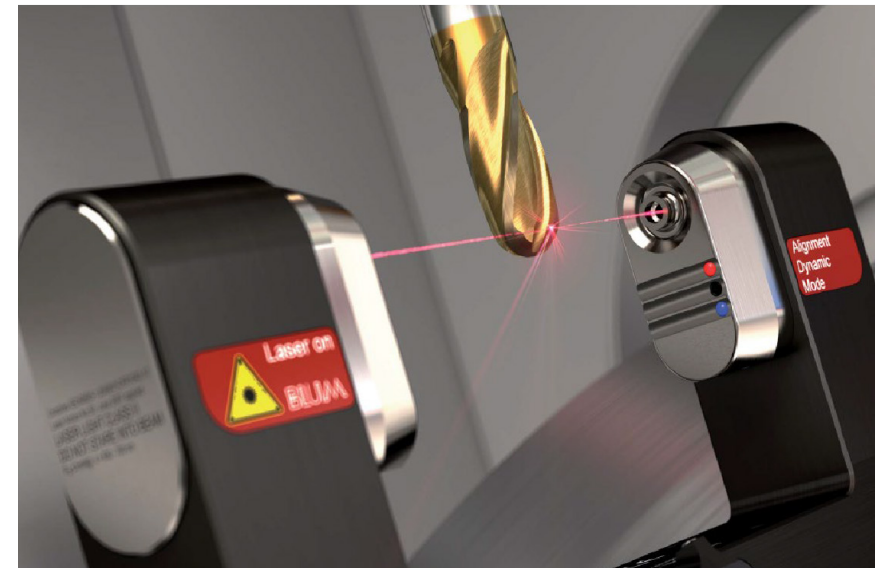
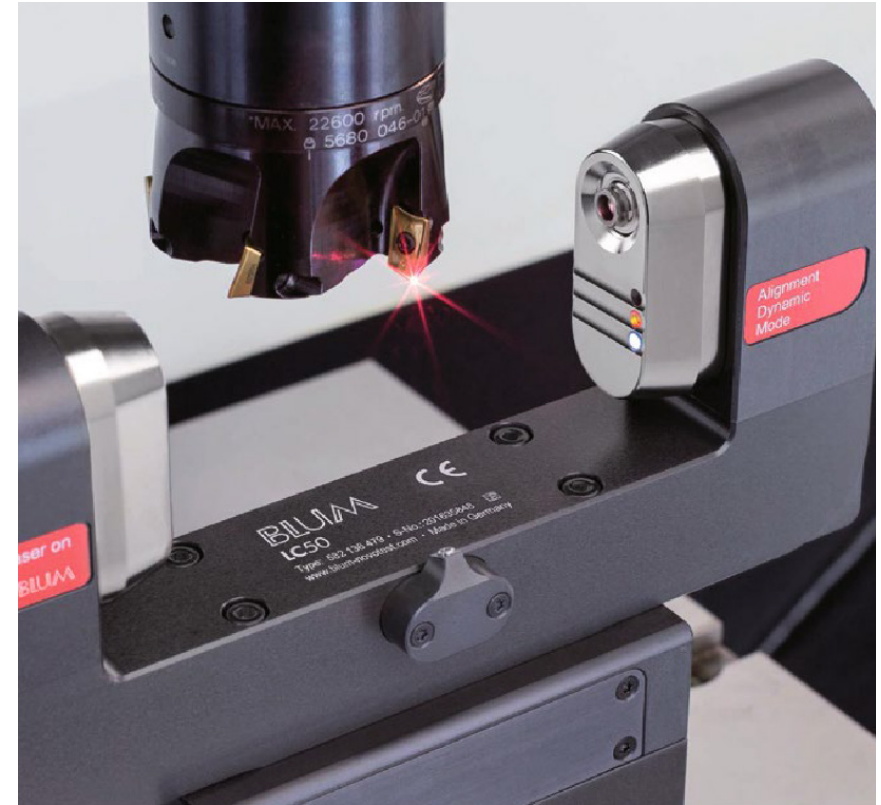


<Option>

## BLUM MEASURING SYSTEM

Universal High-Speed touch probe with multidirectional measuring mechanism

- Detection of workpiece position
- Correction of workpiece orientation
- Thermal compensation of the machine tool
- Contour measurement



## Specification

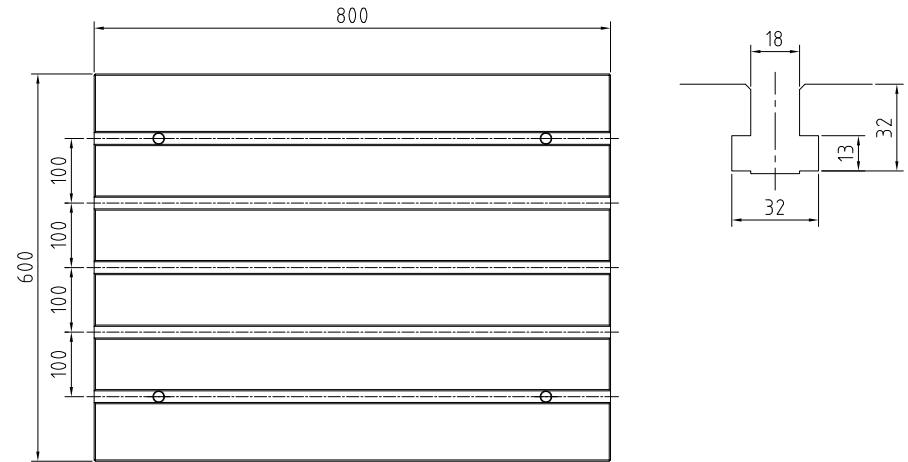
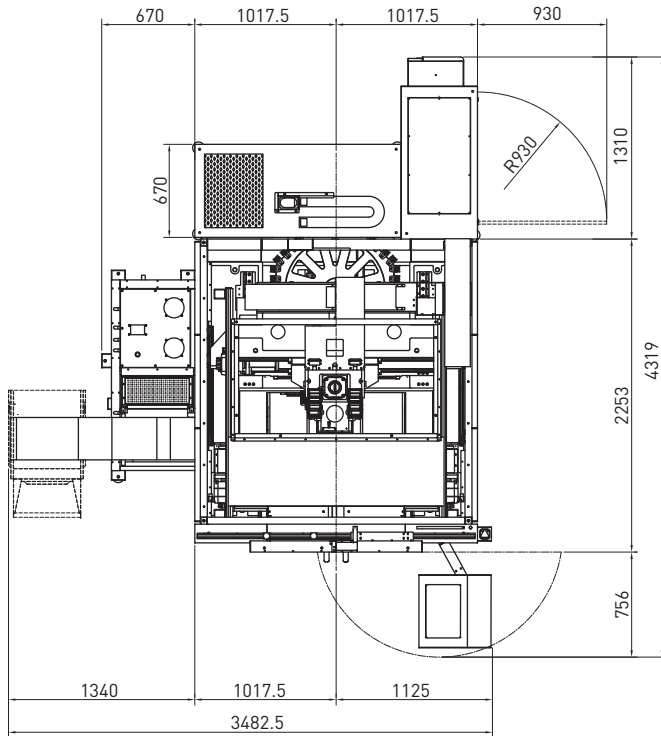
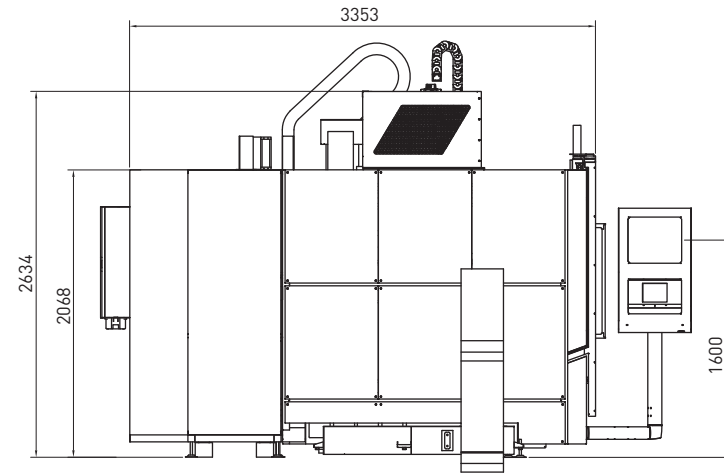
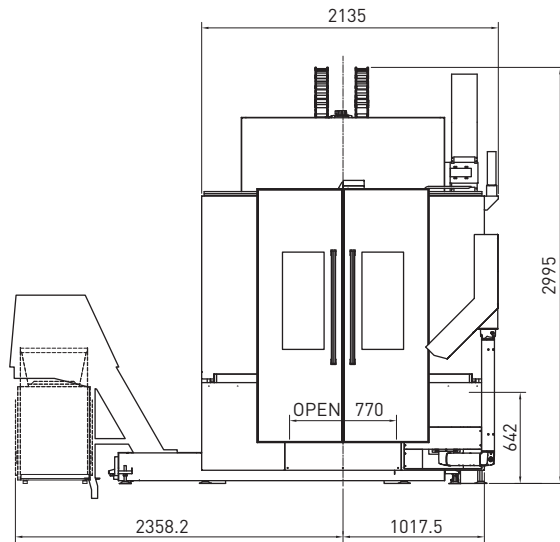
Specification	GT7	
Table		
Table Size	800 × 600 mm	
T-slot(width×pitch×quantity)	18 mm × 100 mm × 5	
Max. load	600 kg	
Travel		
X/Y/Z Travel	700 / 600 / 450 mm	
Spindle		
Spindle taper	HSK A63	HSK E32
Spindle speed	20,000 rpm	40,000 rpm
Spindle motor power	20/24 kW	6.3/9.45 kW
Spindle motor torque	48/58 Nm	2/3 Nm
Spindle nose to table	135-585 mm	145-595 mm
Feed		
Rapid feed X/Y/Z	15/15/15 m/min	
Cutting speed	1-12,000 mm/min	
Tool changer		
Number of tools	32 pockets	48 pockets
Max. tool length	250 mm	250 mm
Max. tool diameter	63 mm	12 mm
Max. tool weight	4 kg	3 kg
Accuracy (VDI 3441 Full travel)		
X/Y/Z Positioning accuracy	0.006/0.006/0.006 mm	
X/Y/Z Repeatability accuracy	0.003/0.003/0.003 mm	
Dimensions & Weight		
Dimensions	3,480 x 4,300 x 2,995 mm	
Weight	8,000 kg	

## Configuration

Configuration	GT7	Configuration	GT7
Full enclosed splash guard	●	Electrical handwheel (MPG)	●
Built-in spindle HSK A63 20000rpm, 32 pockets tool changer	●	Tool box	●
Built-in spindle HSK E32 40000rpm, 48 pockets tool changer	○	Leveling bolts and blocks	●
Y axis with dual direct drive	●	Coolant gun	●
Sealed linear scales on X/Y/Z axes	●	Air gun	●
Chain type chip conveyor	●	User manual (mechanical + electrical parts)	●
High precision spindle water cooler	●	CTS coolant through spindle +ATS	○
Air-condition electrical cabinet	●	Oil cooling through ballscrew	○
Rigid tapping	●	Workpiece probe	○
Centralized automatic grease lubrication system	●	Tool probe	○
Coolant system	●	Oil mist collector	○
Air blast during cutting	●	Minimum quantity lubrication system	○
LED working lamp	●	Coolant cooling system	○
End of program light	●	Extra 200GB SSD program memory (only available on SIEMENS)	○

● Standard Configuration ○ Optional Configuration

# DIMENSIONS



# PRIMINER GLOBAL



PRIMINER USA  
Greenville, South  
Carolina USA



Network of dealers  
and partners  
Europe



PRIMINER Brazil



*What began as a shared vision has grown into a globally operating group for high-level CNC technology. Jack and Benjamin founders, partners, doers – embody what PRIMINER stands for: technical excellence, entrepreneurial clarity, and genuine trust.*

*PRIMINER combines the best of both worlds: efficient series production and engineering expertise from Asia – paired with German quality assurance, service commitment, and market insight. Our philosophy is clear: true CNC expertise emerges only when technology, teamwork, and customer focus come together in perfect harmony.*



**Jack Chen und Benjamin Kaehlcke**

CEOs

Priminer Machine Tools



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PRIMINER Machine Tools  
location Dongguan | China



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Thailand





PRIMINER Werkzeugmaschinen GmbH

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