PRIMINER

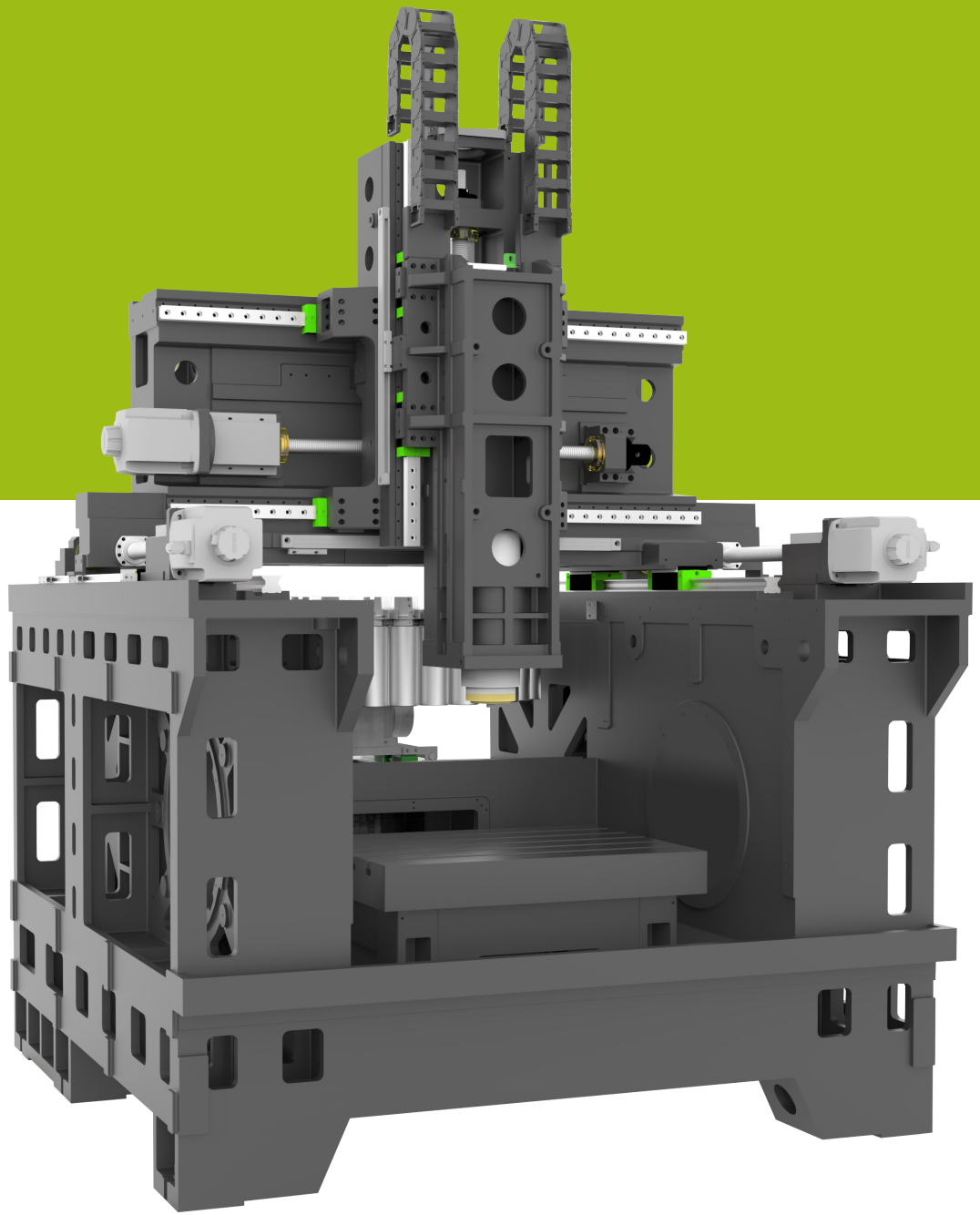
GT7

Gantry Type High Speed Machine Center



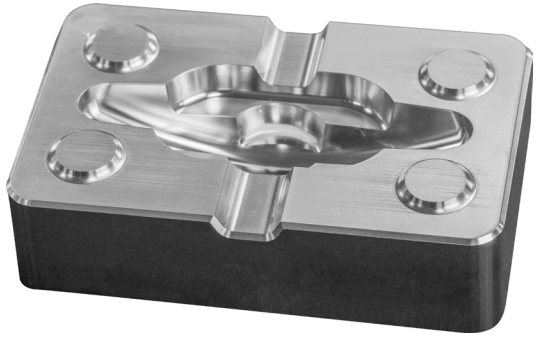
GT7

Gantry Type High Speed Machine Center



High Rigid Sturcture 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 perfomance

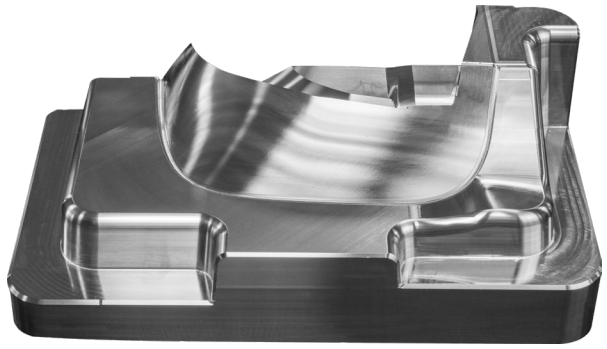


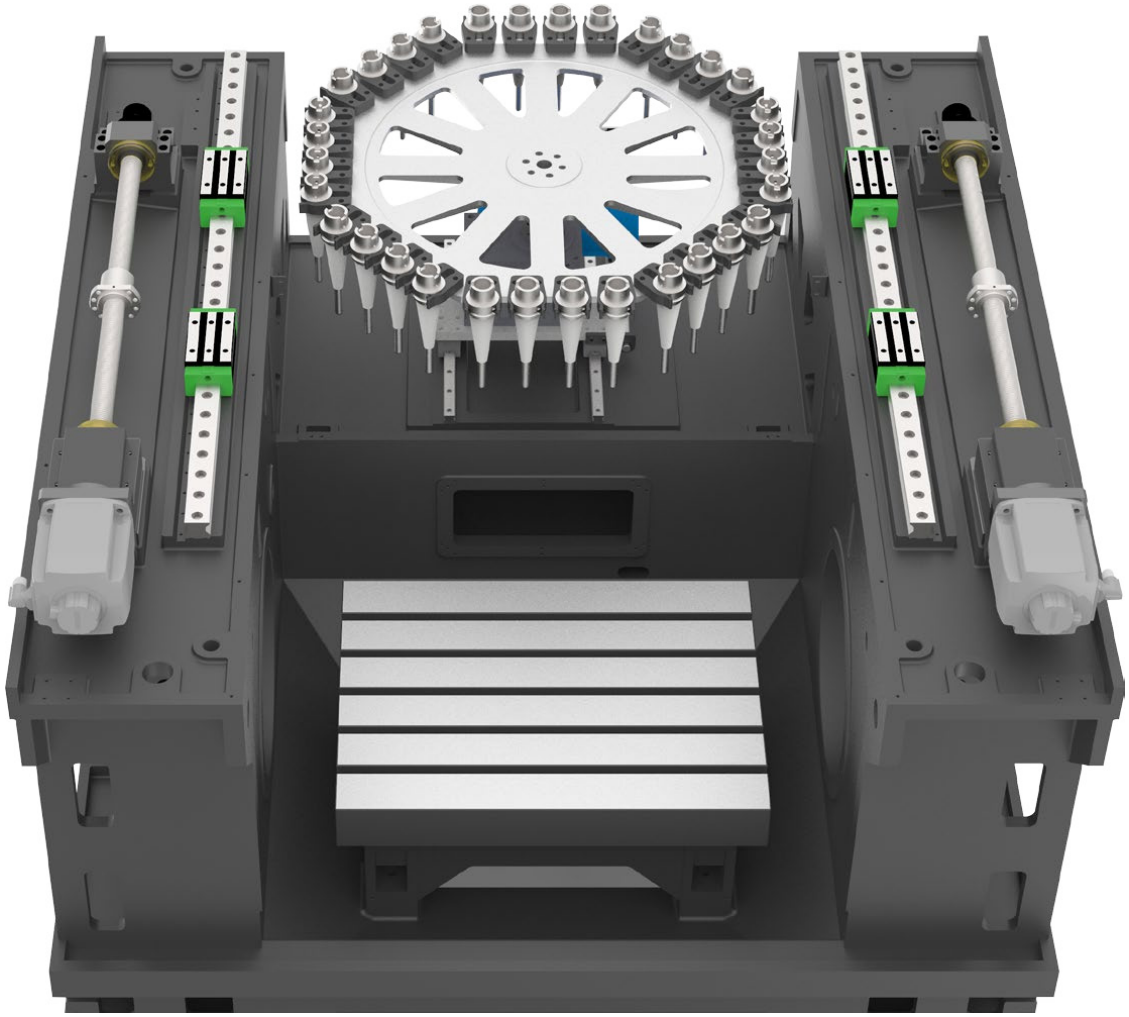
Standard 32 pockets tool change

- 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

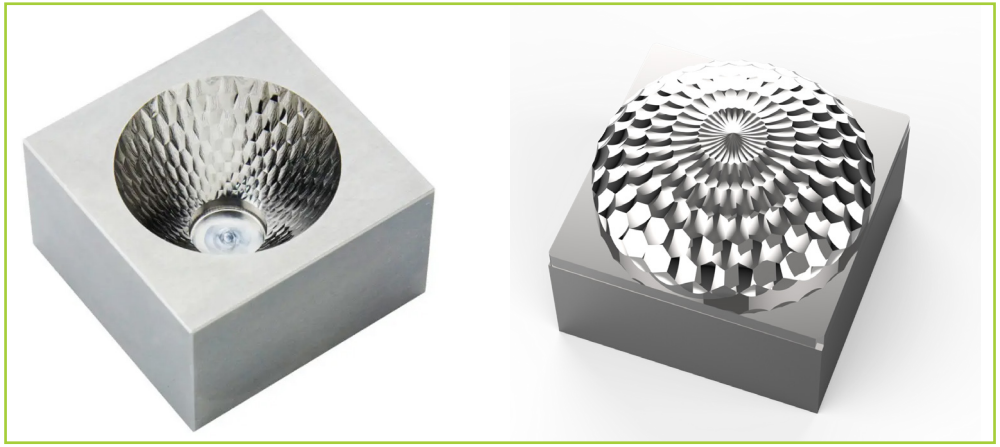




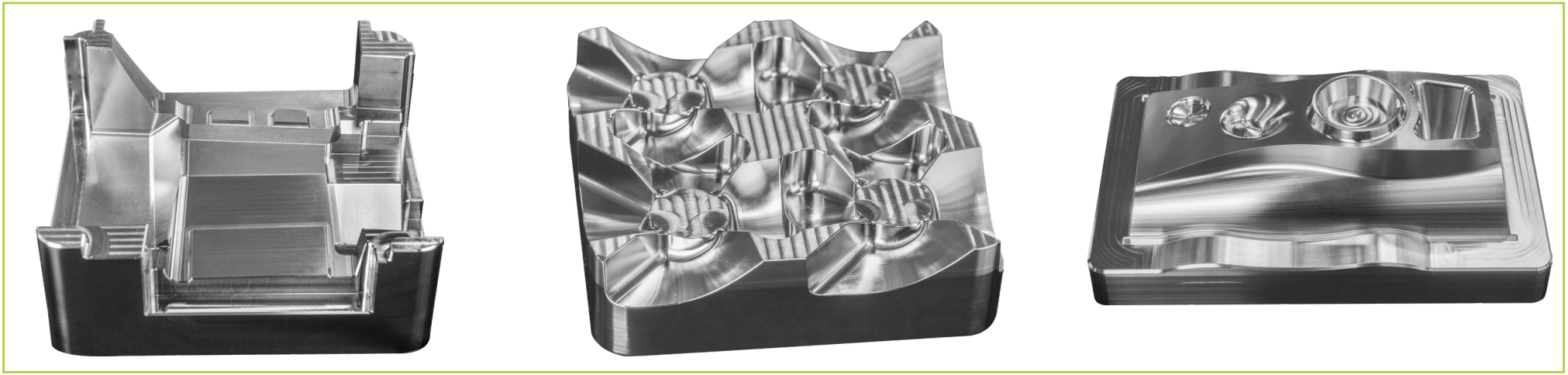
Applications



Graphite

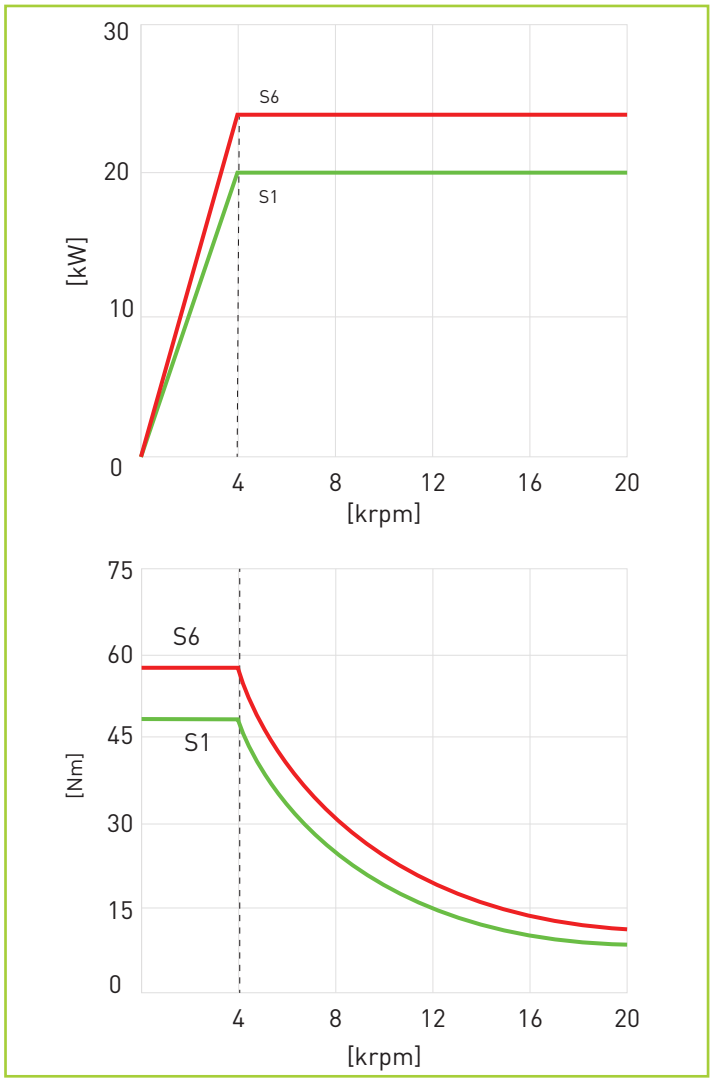


Automotive mold

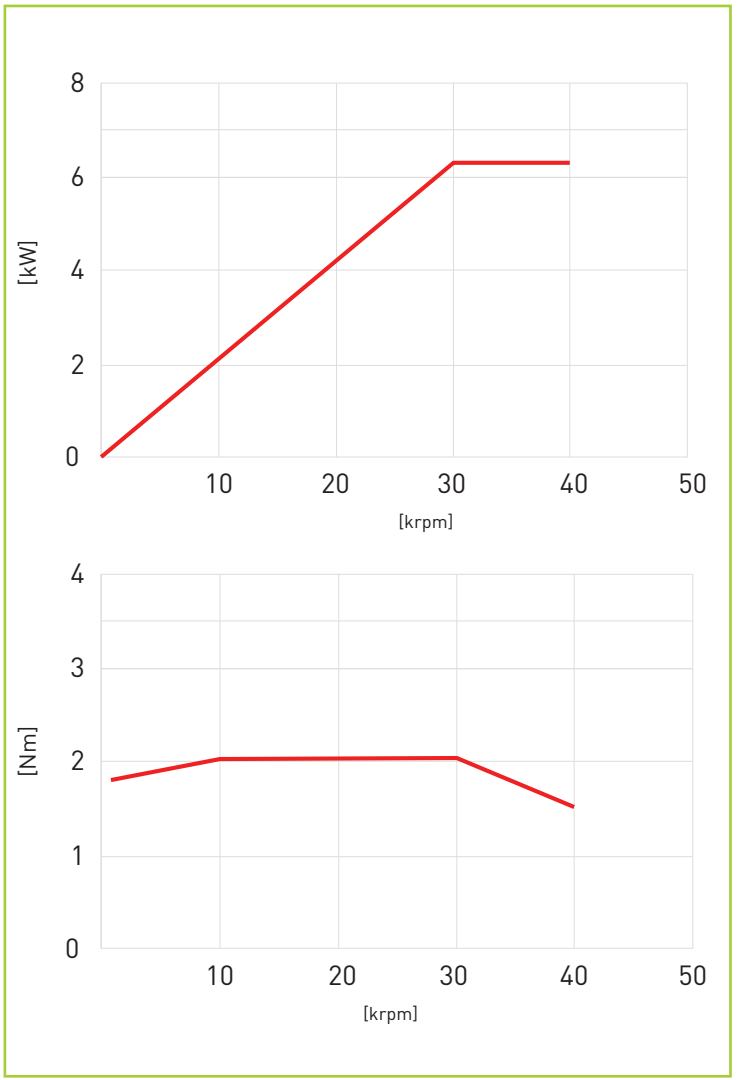


High precision mold

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
- Programing 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
- MachiningMachining 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 Adapation

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

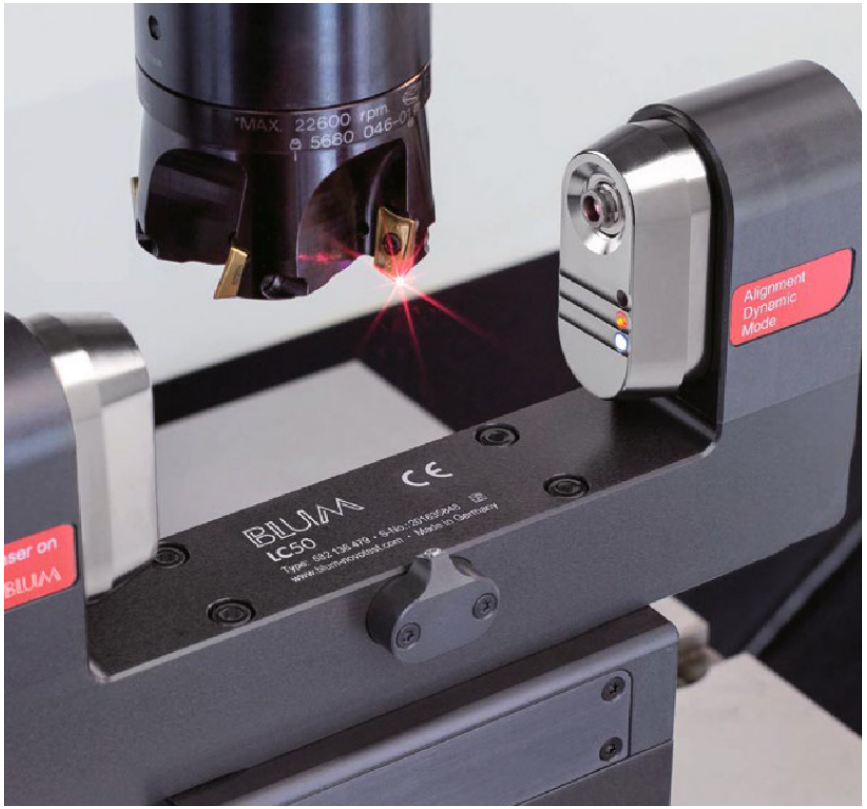
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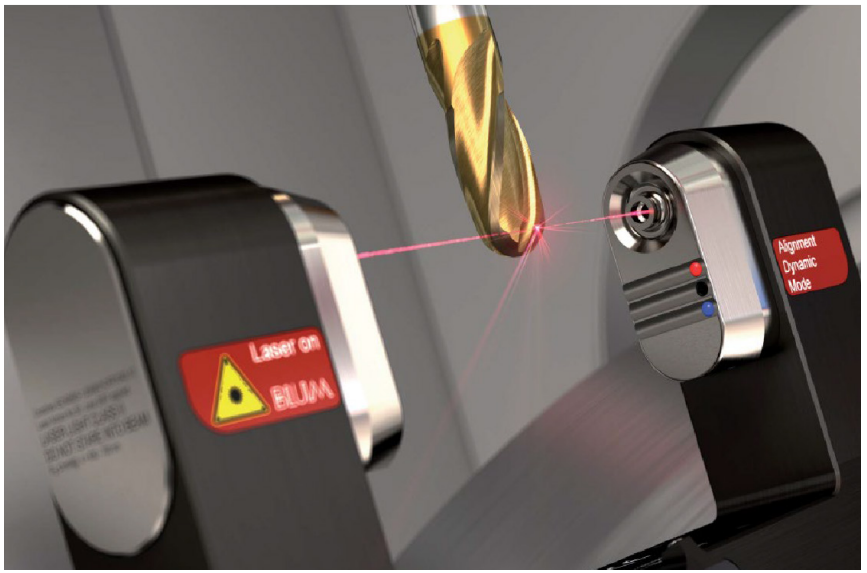
BLUM MEASURING SYSTEM

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 tapper	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	

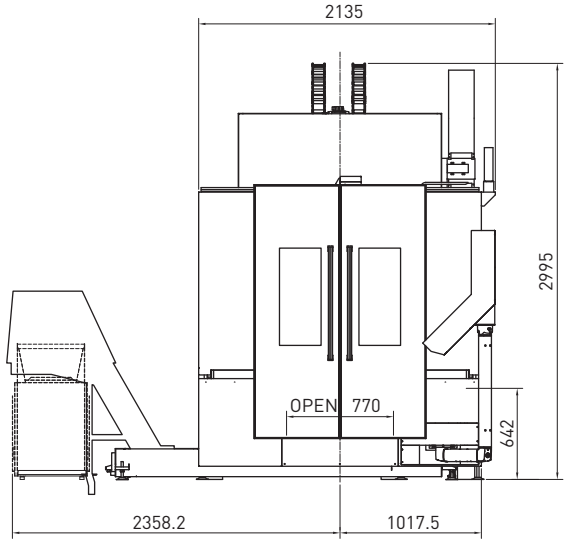
Configuration

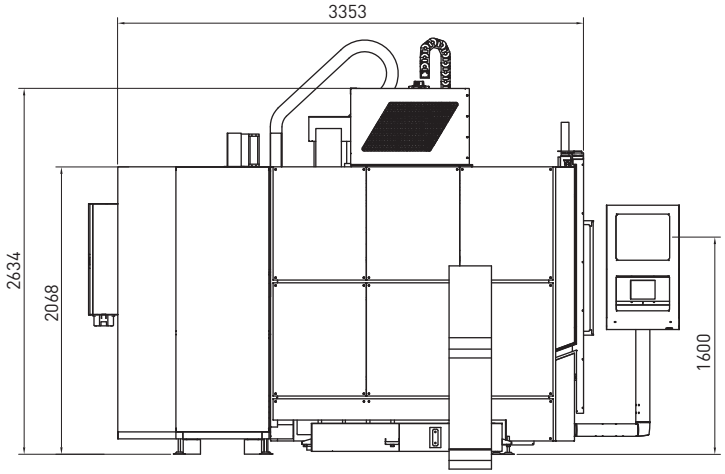
Configuration	GT7
Full enclosed splash guard	●
Built-in spindle HSK A63 20000rpm, 32 pockets tool changer	●
Built-in spindle HSK E32 40000rpm, 48 pockets tool changer	○
Y axis with dual direct drive	●
Sealed linear scales on X/Y/Z axes	●
Chain type chip conveyor	●
High precision spindle water cooler	●
Air-condition electrical cabinet	●
Rigid tapping	●
Centralized automatic grease lubrication system	●
Coolant system	●
Air blast during cutting	●
LED working lamp	●
End of program light	●

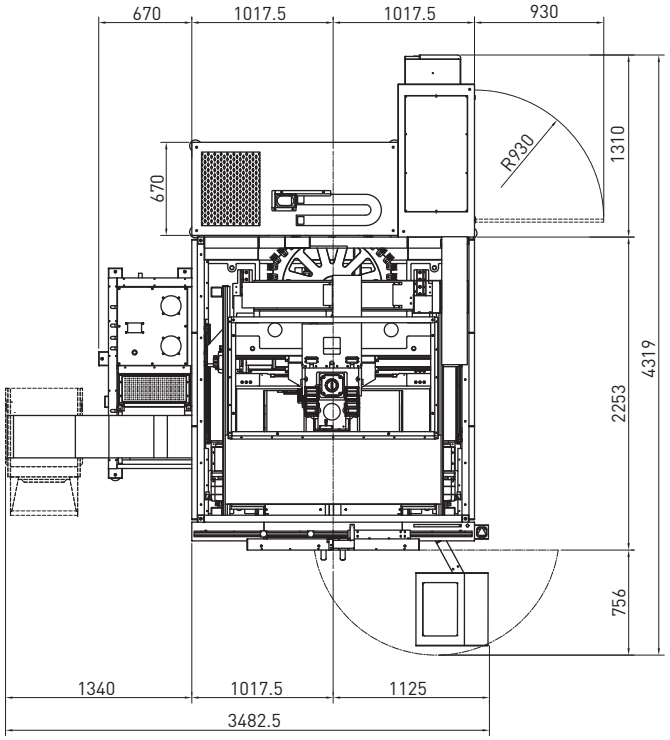
Configuration	GT7
Electrical handwheel (MPG)	●
Tool box	●
Leveling bolts and blocks	●
Coolant gun	●
Air gun	●
User manual (mechanical + electrical parts)	●
CTS coolant through spindle +ATS	○
Oil cooling through ballscrew	○
Workpiece probe	○
Tool probe	○
Oil mist collector	○
Minimum quantity lubrication system	○
Coolant cooling system	○
Extra 200GB SSD program memory (only available on SIEMENS)	○

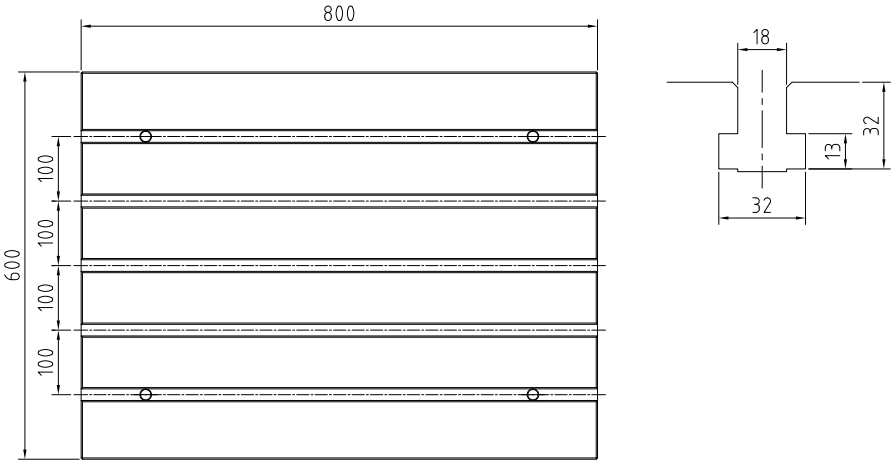
● Standard Configuration ○ Optional Configuration

DIMENSIONS


2135
2995
OPEN 770
642
2358.2
1017.5


3353
2634
2068
1600


670
1017.5
1017.5
930
R930
1310
670
2253
4319
756
1340
1017.5
1125
3482.5


800
600
100
100
100
100
18
32
13
32



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

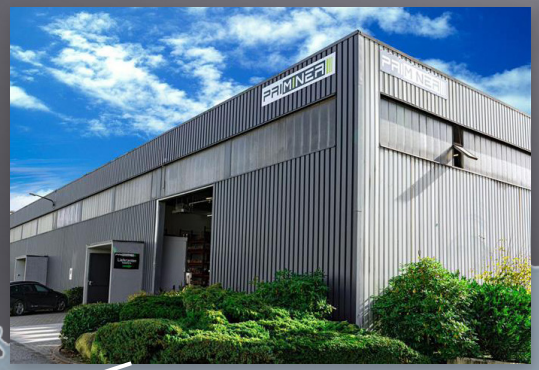
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PRIMINER USA
Greenville, South Carolina USA

Network of dealers and partners Europe



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The above specifications are subject to change without prior notice.