PRIMINER

UHP Series

Ultra High Performance Center

PRECISE · DYMANIC · RELIABLE



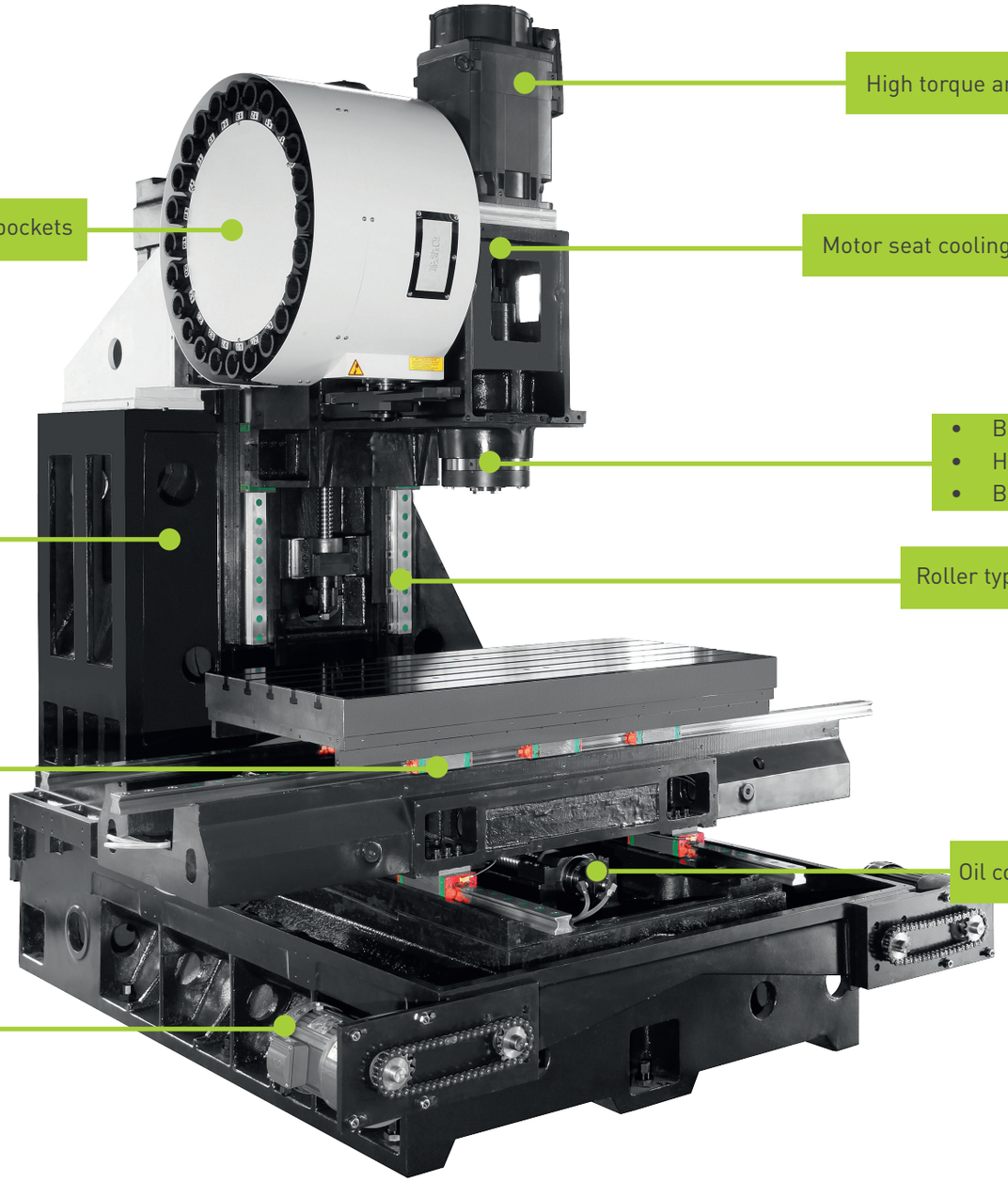
UHP1100

- UHP series ultra high performance center is specially designed for high speed and high efficiency machining applications
- Advanced design with reinforced body structure through FEM analysis. UHP series offers superb cutting performance and reduced vibration to meet the highest machining demands
- Extra wide machine column and base design ensures the high rigidity during high speed movement
- Motor seat cooling circuit
- Oil cooling through ballscrew (optional)
- Linear scales (optional)

Technical Specifications	UHP1100	
Worktable size	1300 x 600 mm	
X/Y/Z Travel	1100 / 650 / 600 mm	
Rapid feed X /Y / Z	36 m/min	
Spindle taper	BBT40/SK40/CAT40	
Spindle speed	15000 rpm	12000 rpm
Spindle power/torque	9/22kW; 63/135Nm	11/18.5kW; 52.5/118Nm
Control system	SIEMENS HEIDENHAIN	FANUC



RIGID MACHINE STRUCTURE



High torque and high speed spindle motor

Standard 24 pockets,optional 28 and 40 pockets

Motor seat cooling circuit

- BBT40 Direct drive 15000 rpm
- HSK A63 Built-in spindle 18000 rpm
- BBT50 Direct drive 10000 rpm

Extra wide machine column and base

Roller type linear guideways on three axis

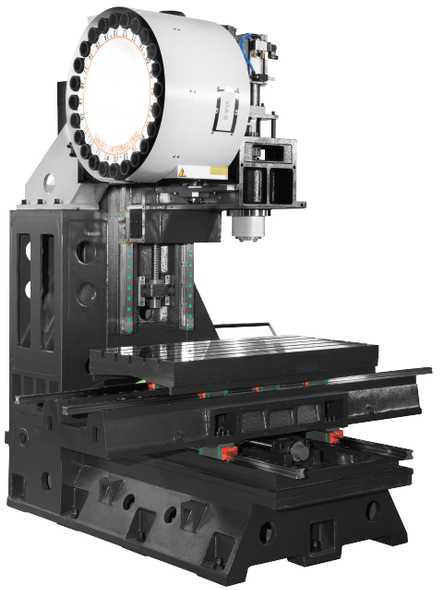
X axis linear guideway with 6 blocks

Oil cooling through ballscrew (optional)

Two screw type chip conveyor and one chain type chip conveyor

UHP900

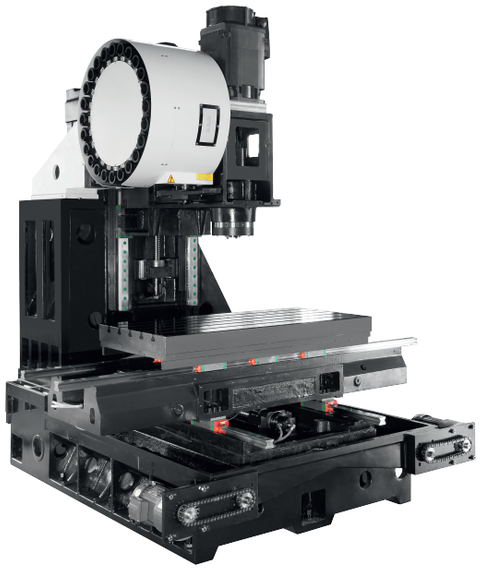
Technical Specifications	UHP900	
Worktable size	1060 x 600 mm	
X/Y/Z Travel	900 / 600 / 600 mm	
Rapid feed X /Y / Z	36 m/min	
Spindle taper	BT40/SK40/CAT40	BBT40/SK40/CAT40
Spindle speed	12000 rpm	
Spindle power/torque	9/22kW; 63/135Nm	11/18.5kW; 52.5/118Nm
Control system	SIEMENS HEIDENHAIN	FANUC





UHP1300

Technical Specifications	UHP 1300	
Worktable size	1500 x 650 mm	
X/Y/Z Travel	1300 / 650 / 600 mm	
Rapid feed X /Y / Z	36 m/min	
Spindle taper	BBT40/SK40/CAT40	
Spindle speed	15000 rpm	12000 rpm
Spindle power/torque	9/22kW; 63/135Nm	11/18.5kW; 52.5/118Nm
Control system	SIEMENS HEIDENHAIN	FANUC





HEIDENHAIN TNC 620 / 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 KinematicsOpt

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)



TECHNICAL SPECIFICATIONS

Technical Specifications	UHP900	UHP1100	UHP1300
Table			
Table size	1060 x 600 mm	1300 x 600 mm	1500 x 650 mm
T-slot (width x number x distance)	18 x 5 x 100 mm		
Max. load	800 kg	1000 kg	1200 kg
Travel			
X/Y/Z Travel	900/600/600 mm	1100/650/600 mm	1300/650/600 mm
Spindle nose to table	150 - 750 mm		
Spindle center to column	652 mm	697 mm	
Spindle			
Spindle (standard)	SK40/BBT40/CAT40		
Spindle speed	12000 rpm	15000 rpm(SIEMENS), 12000 rpm (FANUC)	
Motor power/torque	9/22kW; 63/135Nm (SIEMENS) 11/18.5kW; 52.5/118Nm (FANUC)	20/53kW; 126/250Nm (SIEMENS) 15/30kW; 95.5/191Nm (FANUC)	
Spindle (option 1)	HSK A63, 20000rpm (SIEMENS)	HSK A63, 18000rpm (SIEMENS)	
Motor power/torque	20/24kW; 48/58Nm	30/36kW; 85/102Nm	
Spindle	SK40/BBT40/CAT40/HSK A63, 15000 rpm	15000 rpm(SIEMENS)	
Motor power/torque	9/22kW; 63/135Nm (SIEMENS) 9/15kW; 57.3/119Nm (FANUC)	20/53kW; 126/250Nm	
Spindle (option 3)	/	BBT50,10000 rpm (SIEMENS)	
Motor power/torque	/	20/53 kW;126/250Nm	
Feed			
Rapid feed X/Y/Z	36 m/min		
Cutting feed	1-12000 mm/min		
Tool changer			
Number of tools	24 pcs		
Max. tool length	300 mm		
Max. tool diameter	Φ78/Φ125 mm		
Max. tool weight	8 kg		
Accuracy (VDI 3441 Full travel)			
Positioning accuracy (without linear scales)	0.008 mm		0.010 mm
Positioning repeatability (without linear scales)	0.006 mm		0.006 mm
Positioning accuracy (with linear scales)	0.006 mm		0.008 mm
Positioning repeatability (with linear scales)	0.004 mm		0.006 mm
Dimensions & Weight			
Dimensions	3850×2340×3000 mm	3850×3100×3185 mm	4025×3090×3185 mm
Weight	6500 kg	7500 kg	8000 kg

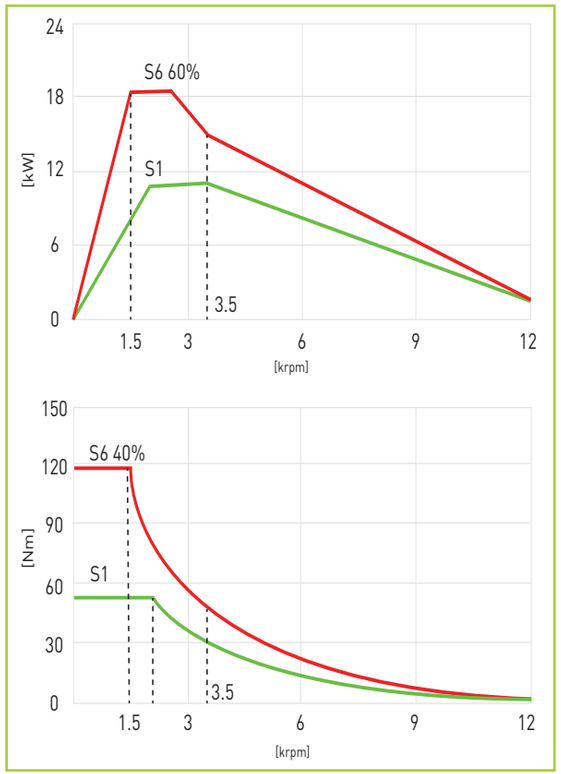
Configuration

	UHP900	UHP1100	UHP1300
Full enclosed splash guard	●	●	●
Built-in spindle HSK A63 20000rpm, 20/24kW, 48/58Nm (SIEMENS / HEIDENHAIN)	○	×	×
Built-in spindle HSK A63 18000rpm, 30/36kW, 85/102Nm (SIEMENS / HEIDENHAIN)	×	○	○
Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 20/53kW, 126/250Nm (SIEMENS / HEIDENHAIN)	×	●	●
Direct drive spindle HSK A63 15000 rpm, 20/53kW, 126/250Nm (SIEMENS / HEIDENHAIN)	○	○	○
Direct drive spindle BBT40/SK40/CAT40/HSK A63 15000 rpm, 9/22kW, 63/135Nm (SIEMENS / HEIDENHAIN)	○	×	×
Direct drive spindle BBT40/SK40/CAT40/HSK A63 15000 rpm, 9/15kW, 57.3/119Nm (FANUC)	○	×	×
Direct drive spindle BT40/SK40/CAT40 12000 rpm, 9/22kW, 63/135Nm (SIEMENS / HEIDENHAIN)	●	×	×
Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 15/30kW, 95.5/191Nm (FANUC)	×	●	●
Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)	●	×	×
Direct drive spindle BBT50 10000 rpm, 20/53kW, 126/250Nm (SIEMENS / HEIDENHAIN)	×	○	○
24 pockets arm type tool changer, BBT40/BT40/SK40/CAT40	●	●	●
24 pockets arm type tool changer, BT50/SK50/CAT50	×	○	○
28 pockets arm type tool changer, BT40/SK40/CAT40	○	○	○
30 pockets arm type tool changer, BT40/SK40/CAT40/HSK A63	○	○	○
40 pockets chain type tool changer, BT40/SK40/CAT40	○	○	○
Chain type chip conveyor	●	×	×
Two screw type and one chain type chip conveyor	×	●	●
Spindle oil cooler	●	●	●
Motor seat cooling circuit	×	●	●
Air-condition electrical cabinet	●	●	●

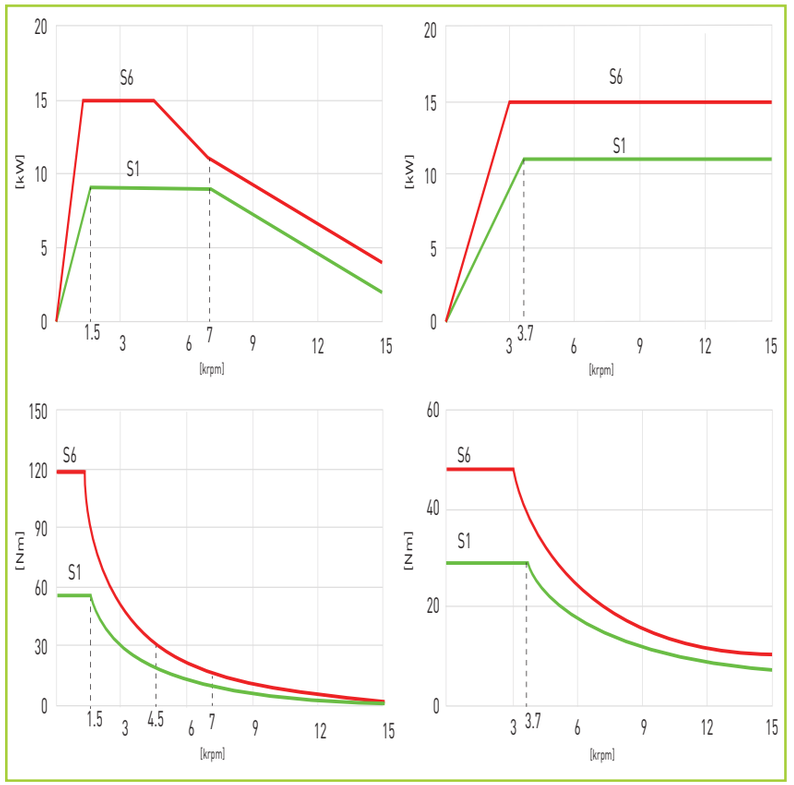
	UHP900	UHP1100	UHP1300
Rigid tapping	●	●	●
Automatic lubrication system	●	●	●
Coolant system	●	●	●
Air blast during cutting	●	●	●
LED working lamp	●	●	●
End of program light	●	●	●
Electrical handwheel (MPG)	●	●	●
Tool box	●	●	●
Additional rotary 4th axis	○	○	○
Additional rotary 4/5th axis	○	○	○
Linear scales on X/Y/Z axis	○	○	○
CTS coolant through spindle + ATS	○	○	○
Workpiece probe	○	○	○
Tool probe	○	○	○
Oil mist collector	○	○	○
Oil skimmer	○	○	○
Extra 200GB SSD program memory (only available on SIEMENS)	○	○	○
Leveling bolts and blocks	●	●	●
Coolant gun	●	●	●
Air gun	●	●	●
User manual (mechanical + electrical parts)	●	●	●
Ethernet, CF card and USB interface	●	●	●

● Standard ○ Optional × Not Available

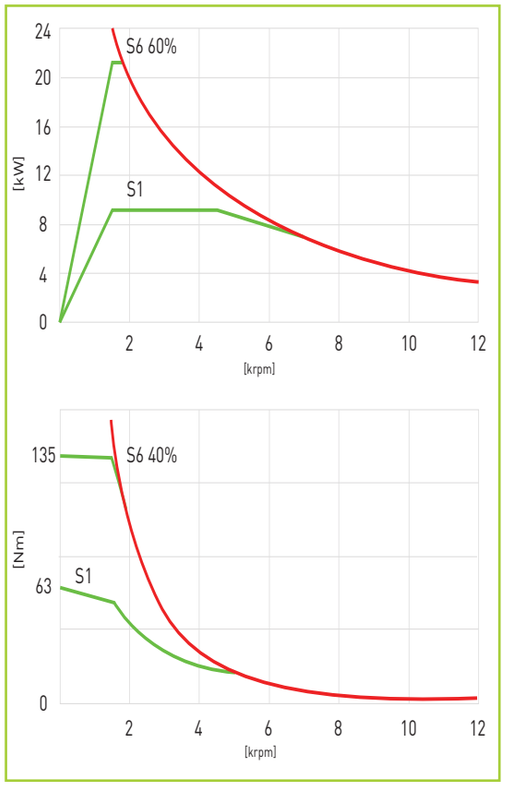
TORQUE DIAGRAM



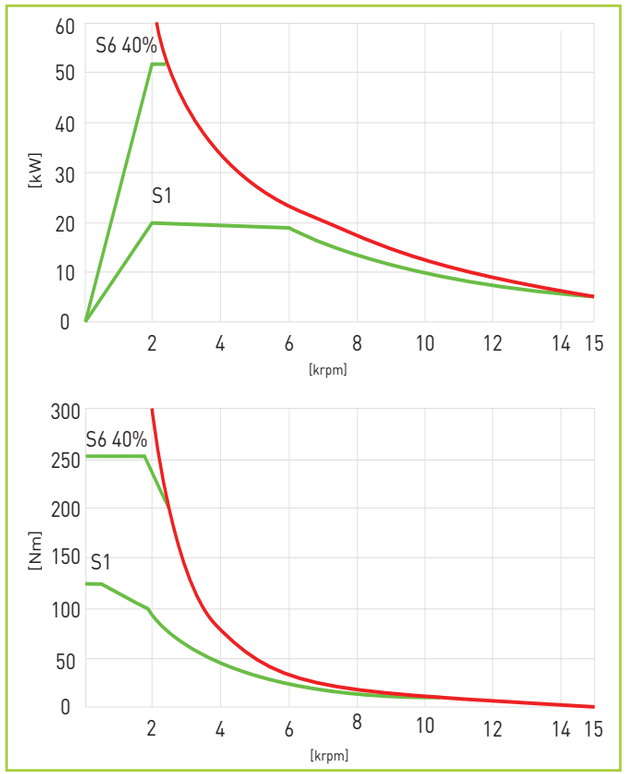
BBT40/SK40/CAT40 · 12000 rpm
11/18.5 kW 52.5/118 Nm



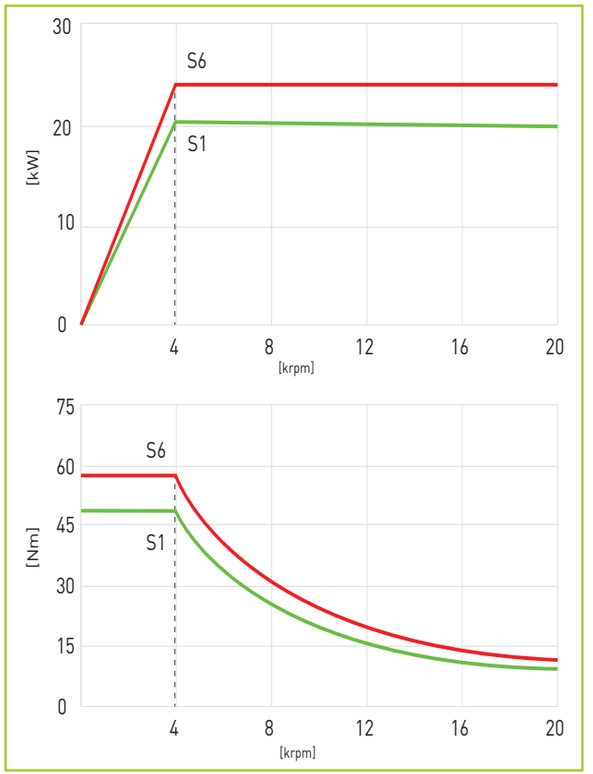
BBT40/SK40/CAT40/HSK A63 · 12000 rpm
15/30 kW 95.5/191 Nm



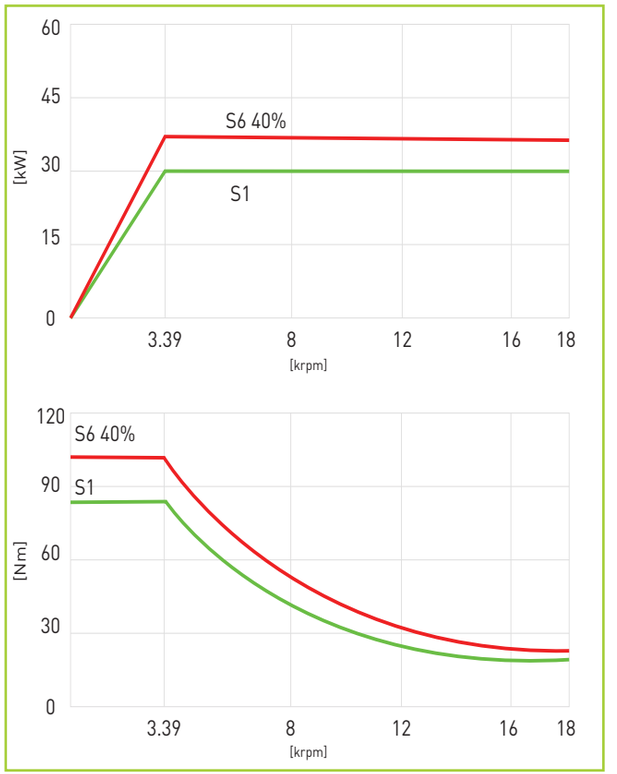
BBT40/SK40/CAT40 · 12000 rpm
9/22 kW 63/135 Nm



BBT40 · 15000 rpm
20/53kW 126/250Nm

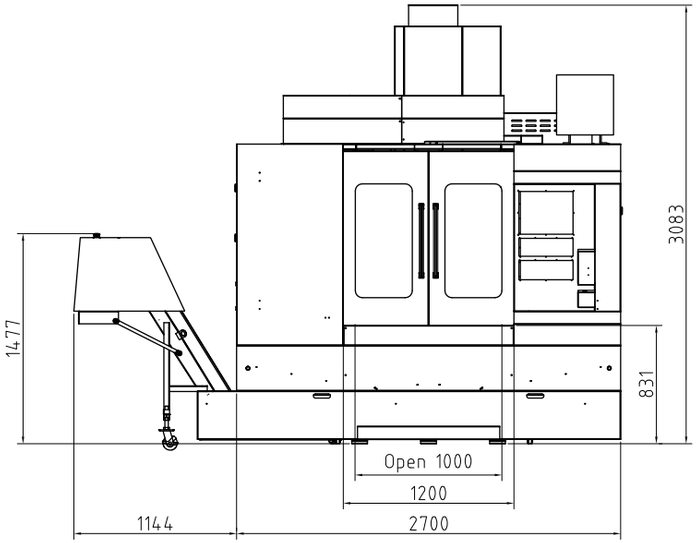


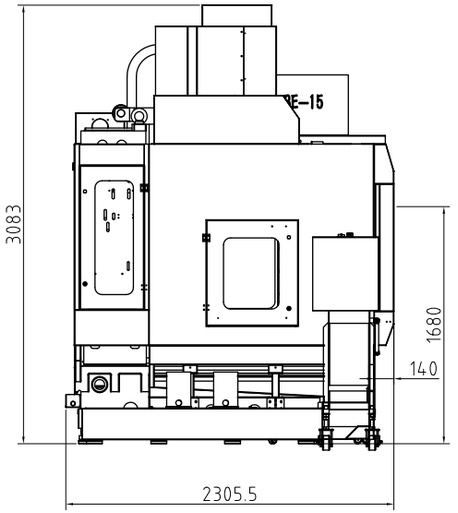
HSK A63 · 20000 rpm
20/24kW 48/58Nm

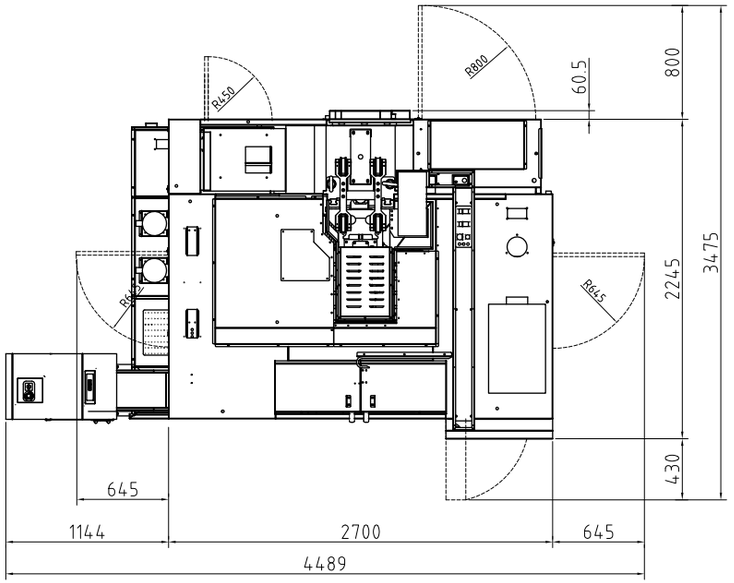


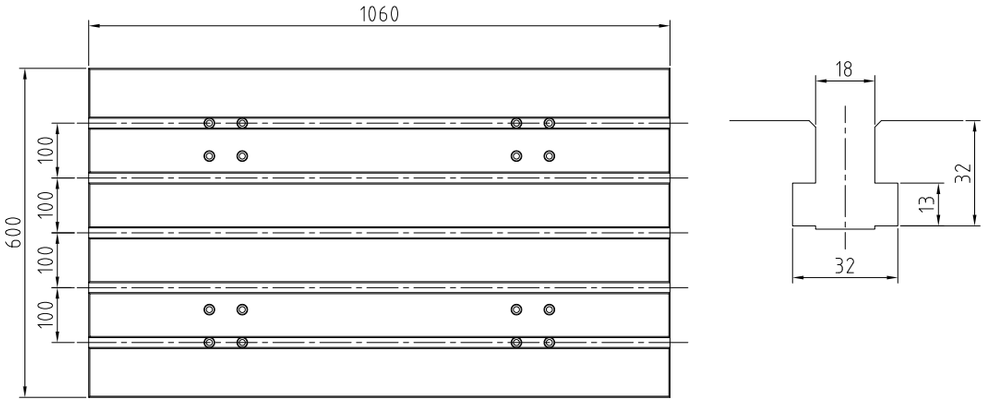
HSK A63 · 18000 rpm
30/36kW 85/102Nm

DIMENSIONS OF UHP900

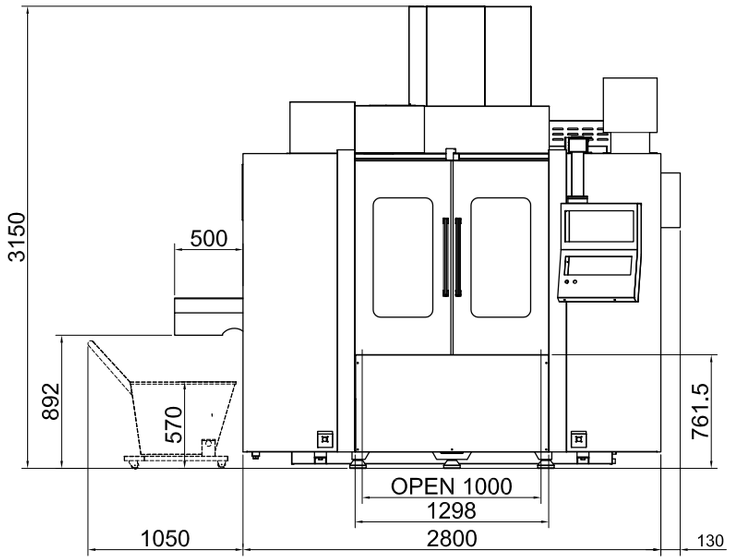


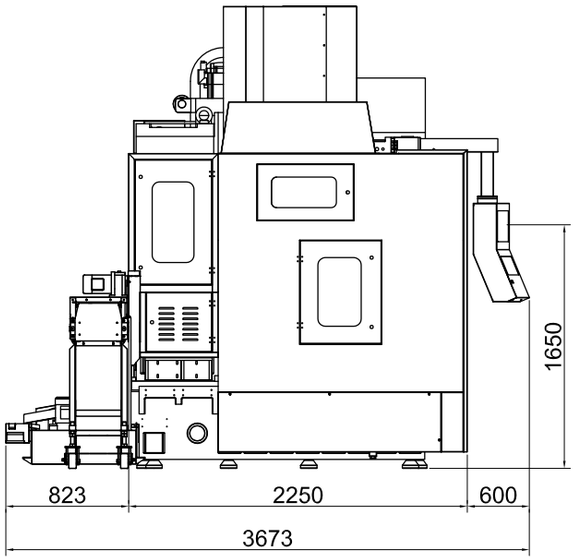


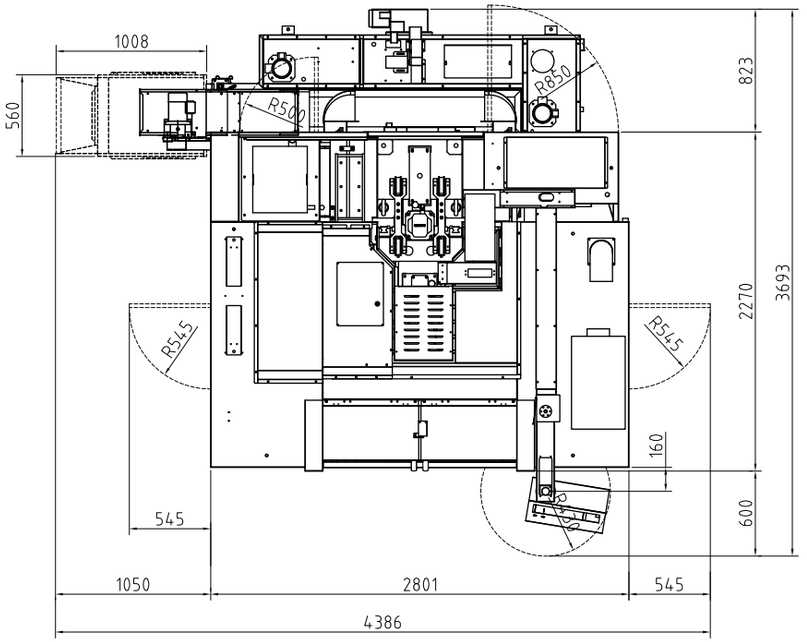


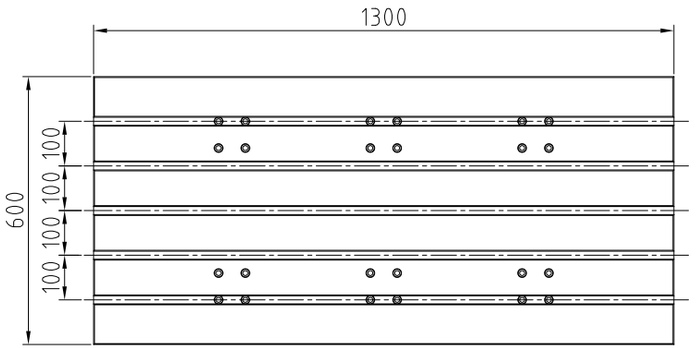


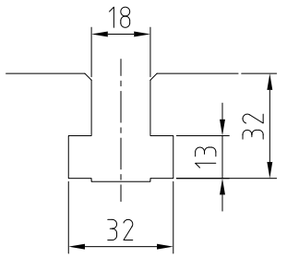
DIMENSIONS OF UHP1100



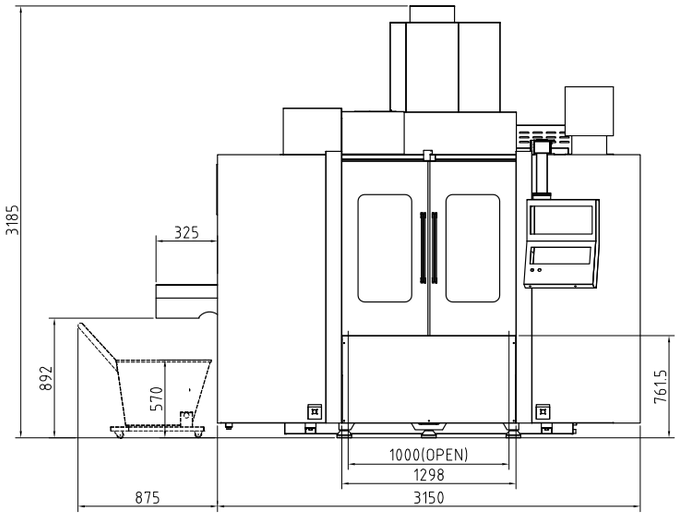


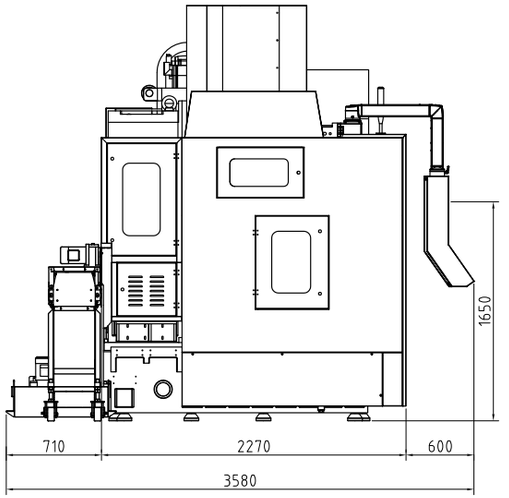


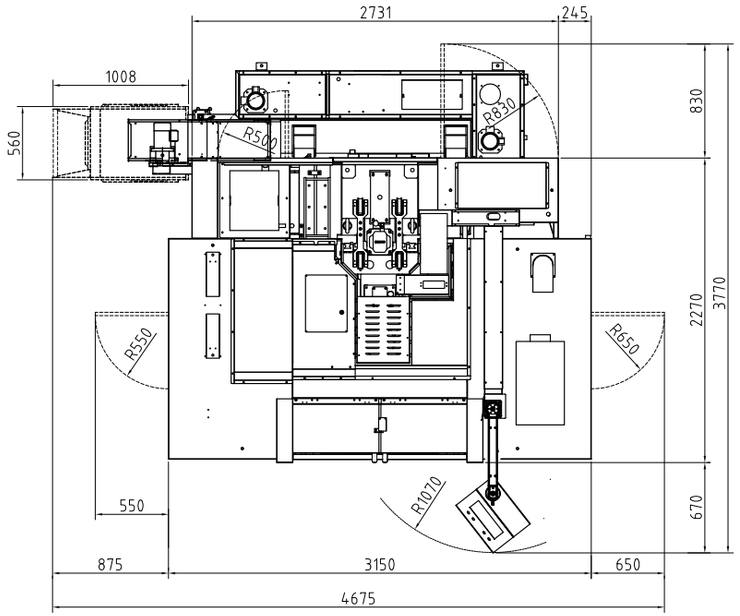


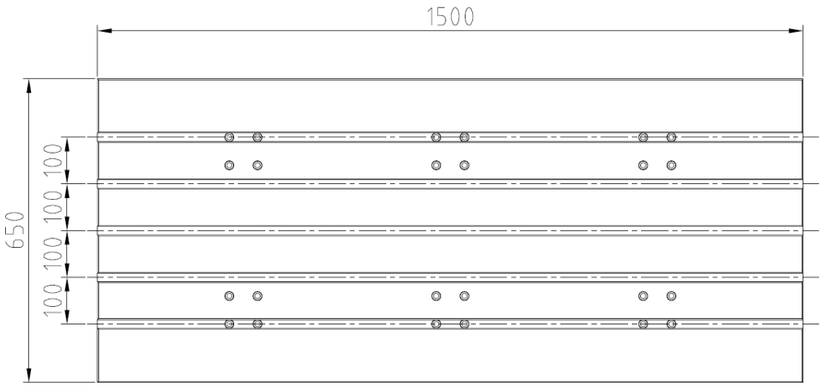


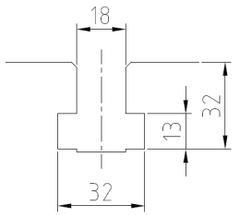
DIMENSIONS OF UHP1300



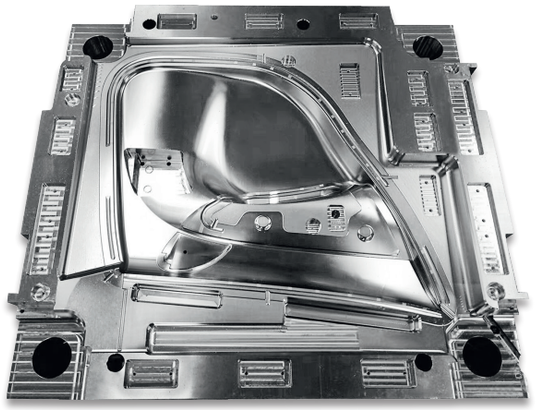


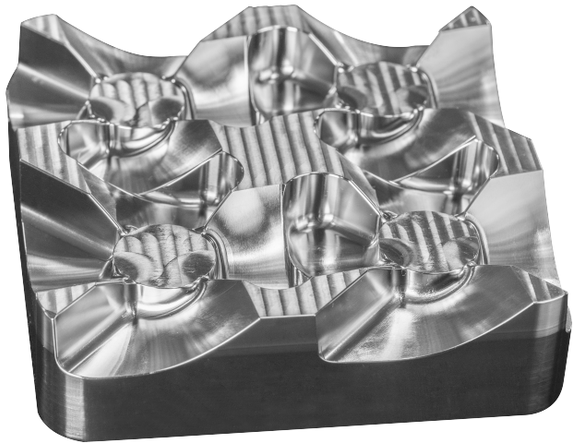


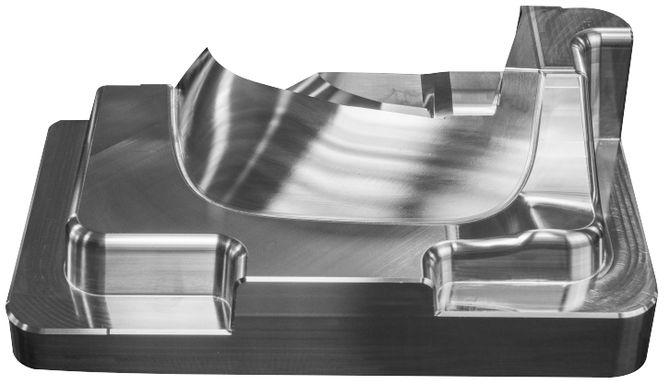


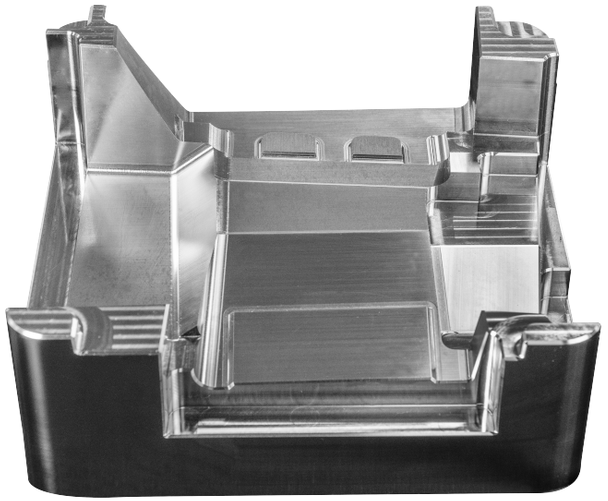


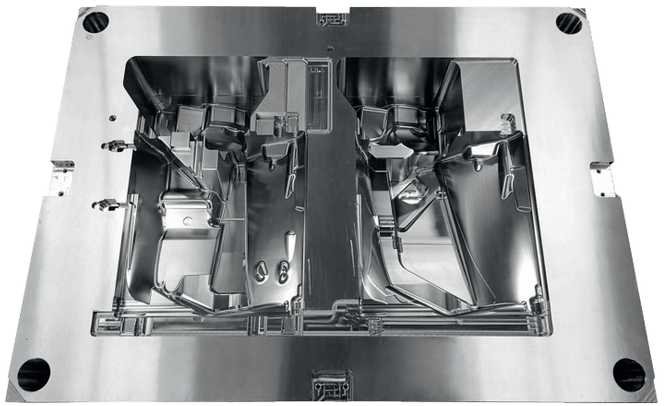
WORKPIECE SAMPLES













WHERE GERMAN QUALITY MEETS CHINESE DRIVE

Customer Service with Foresight Reliable Support You Can Count On

From initial commissioning through ongoing operations, our customer service team provides competent and dependable support—either on-site or via remote maintenance. PRIMINER Service ensures rapid response times, clear solutions, and expert technical assistance when it is needed most.
Through our central support number, you are directly connected with qualified specialists—efficient, professional, and solution-oriented.

Hand-scraped precision – for perfectly matched guideways

At PRIMINER, selected contact and guide surfaces are traditionally hand-scraped. This precise manual technique ensures optimal flatness, perfect fit, and even pressure distribution – essential for highest accuracy and long-term machine stability.
Every hand-scraped surface is a visible mark of quality and the result of decades of experience in machine tool manufacturing.

Manufactured Under Controlled Conditions

PRIMINER machines are assembled and tested almost exclusively in a temperature-stable environment.
This minimizes thermally induced deformation – ensuring stable geometries, reliable measurements, and long-lasting precision.
This approach is used precisely where it is critical to overall accuracy – efficient and well thought-out.

Global Development – Locally Focused

The PRIMINER R&D team works across locations in Germany and China. While the German team focuses on application engineering, customer requirements, and quality standards, the team in China ensures rapid implementation, prototyping, and production readiness.
This close collaboration results in practical, precise, and market-oriented machine solutions – globally aligned, locally optimized.











Our partnership combines German engineering with Chinese manufacturing power – precise, efficient, and on equal footing. This combination is not a compromise, but a true competitive advantage.



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.

PRIMINER GLOBAL





PRIMINER Werkzeugmaschinen GmbH
Neumünster | Germany

PRIMINER Machine Tools
location Dongguan | China





PRIMINER Machine Tools Global Manufacture
location Enping | China



PRIMINER South East Europe
Belgrad | Serbia



PRIMINER Asia
Thailand

https://www.priminer.de

The above specifications are subject to change without prior notice.

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