

PRIMNER

GT16

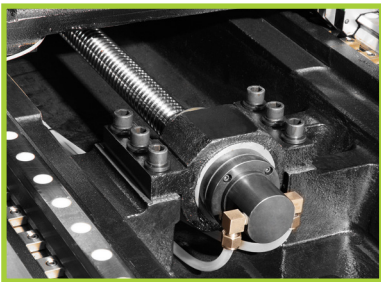
High Speed Double Column Machining Center



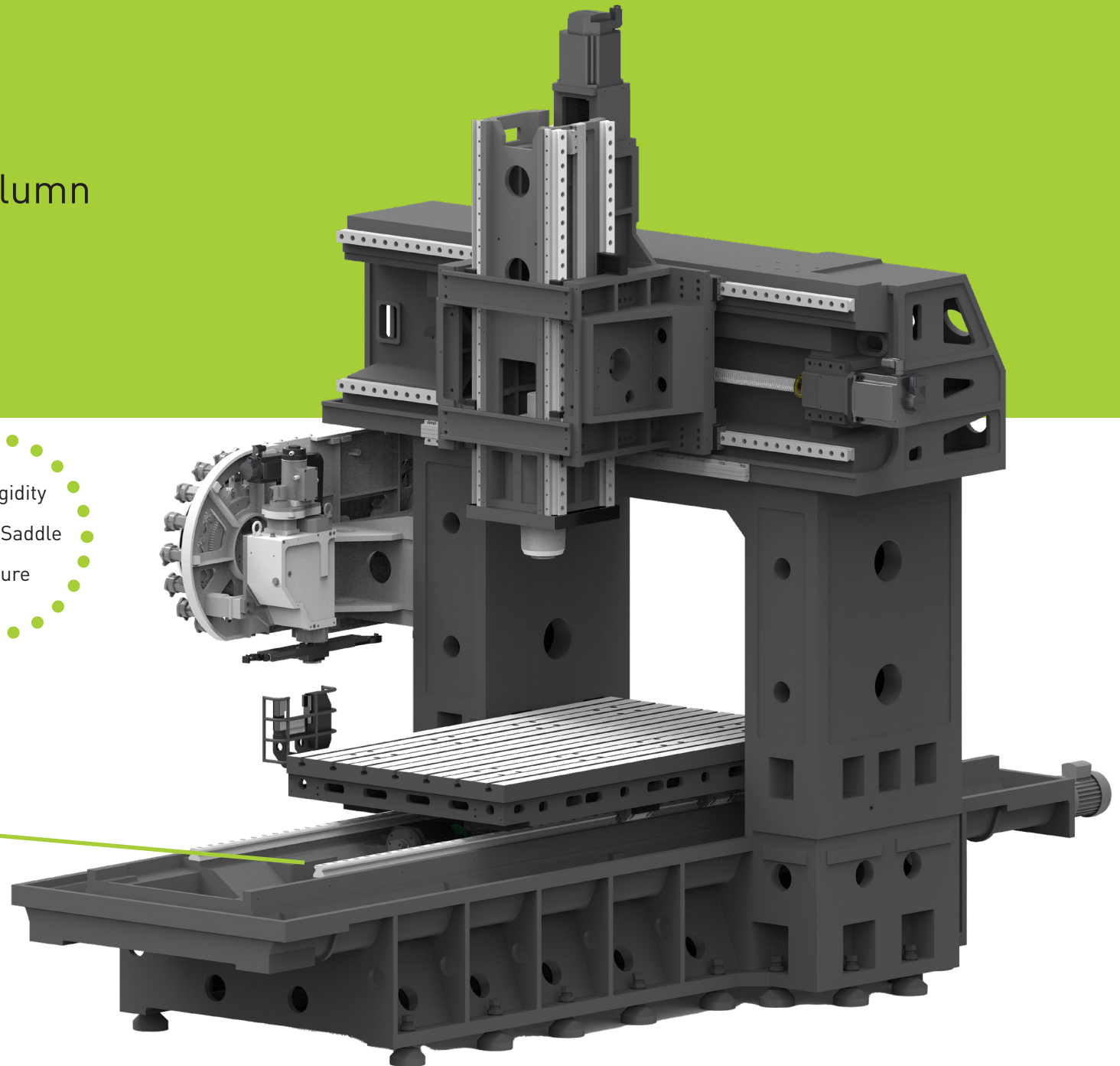
GT16

High-rigidity double column
structure design

High-Rigidity
Box-Type Saddle
Structure



Oil cooling through ballscrew

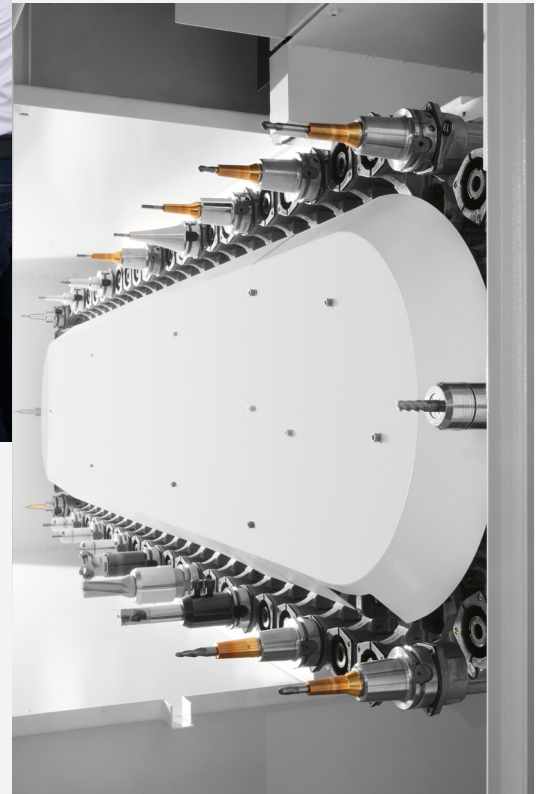


CHAIN TYPE TOOL CHANGER

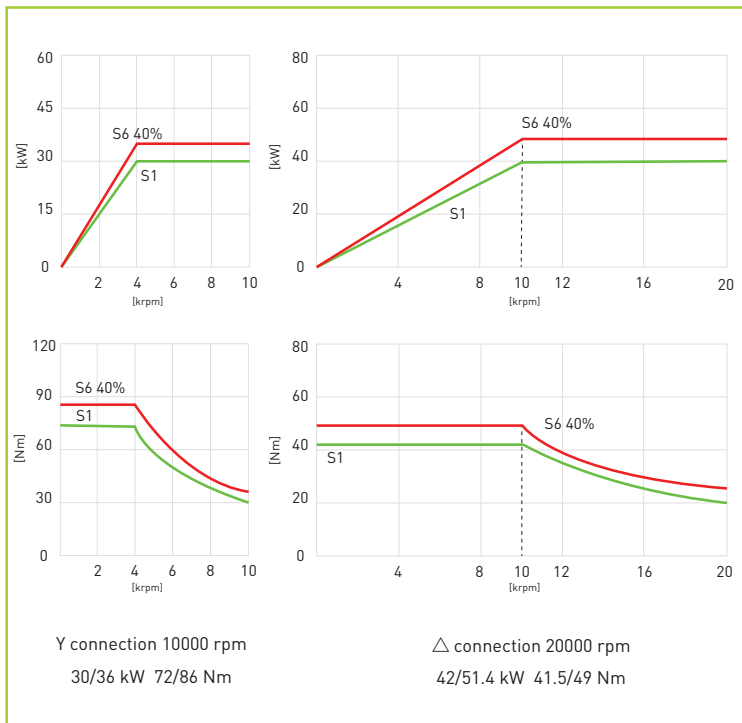
- Tools can be loaded and unloaded during machining
- User-Friendly door and button make the loading and unloading of workpiece easier
- High production efficiency

Technical Specification

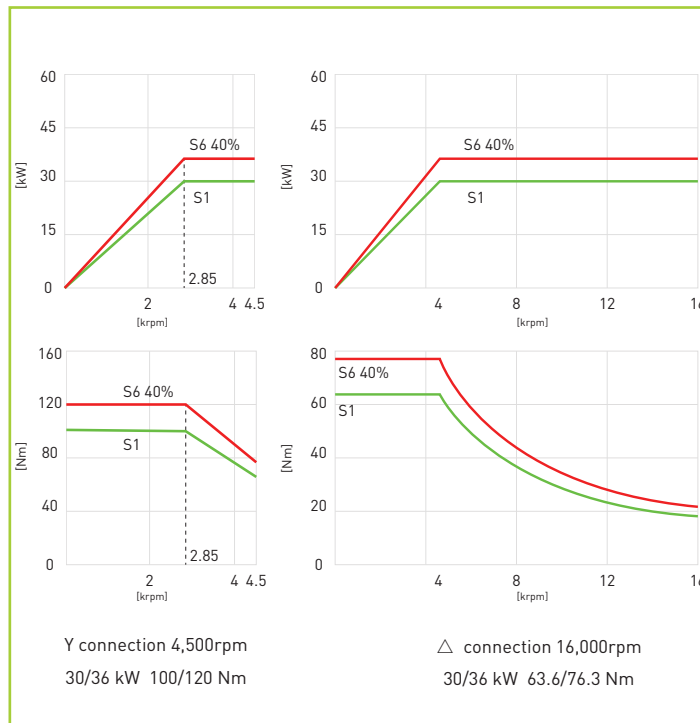
- HSK A63
- Number of tools 40
- Max.tool length 300 mm
- Max.tool diameter $\Phi 78/\Phi 125$ mm (next release)
- Max.tool weight 8 kg
- HSK A100
- Number of tools 40
- Max.tool length 400 mm
- Max.tool diameter $\Phi 125/\Phi 200$ mm (next release)
- Max.tool weight 16 kg



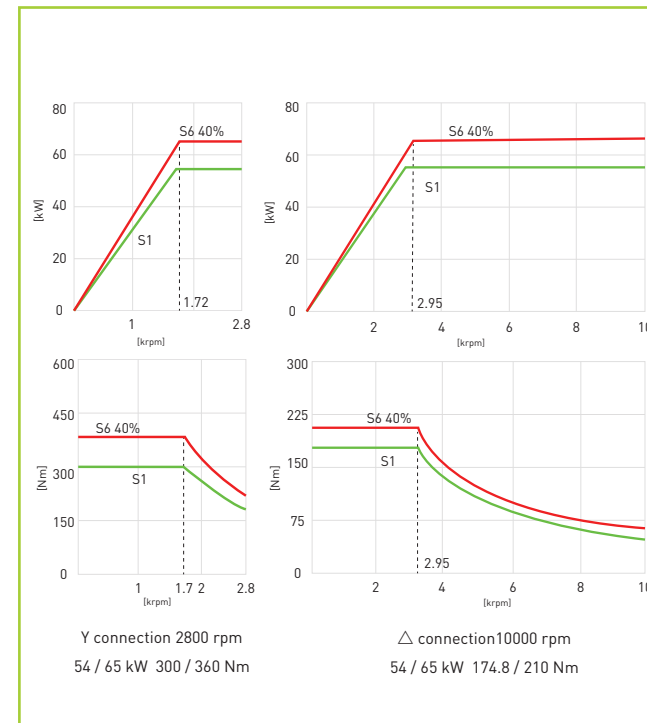
TORQUE DIAGRAM



HSK A63 20000 rpm
30 / 36 kW 72 / 86 Nm



HSK A63 16000 rpm
30 / 36 kW 100 / 120 Nm



HSK A100 10000 rpm
54 / 65 kW 300 / 360 Nm

OPTIONAL BLUM MEASURING SYSTEM

Universal High-Speed touch probe with multidirectional measuring mechanism

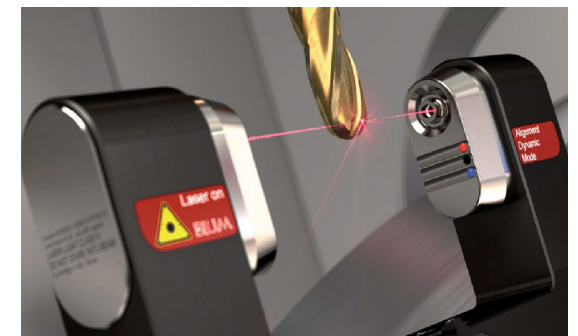
- Detection of workpiece position
- Correction of workpiece orientation
- Thermal compensation of the machine tool
- Contour measurement

Your benefit:

- Measuring speed up to 3 m/min
- Precise, non-lobing touch characteristics
- No-wear, optoelectronic measuring mechanism
- Use of two measuring systems with one IR receiver
- Extended battery life
- Precise measurement even with coolant
- Proven and robust design

Highlights

- Proven high-precision laser measuring system;
- Non-contact, optical tool measurement;
- 100 % reliable due to BLUM protection system



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



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)



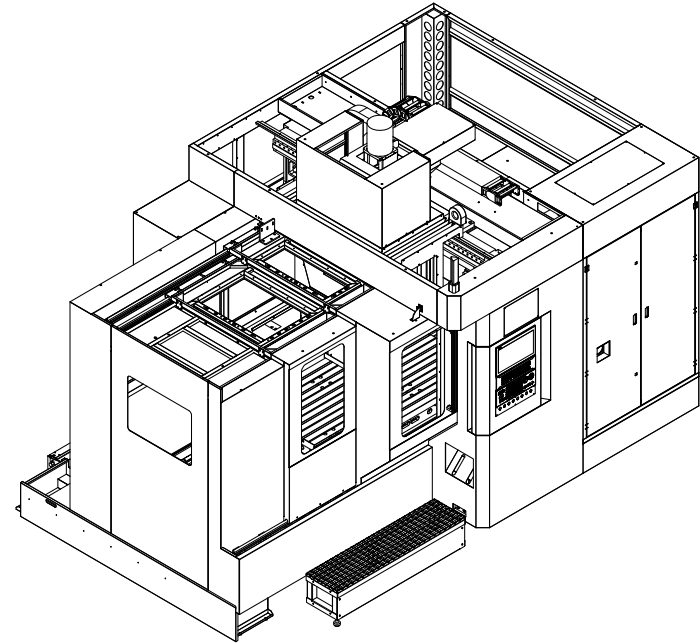
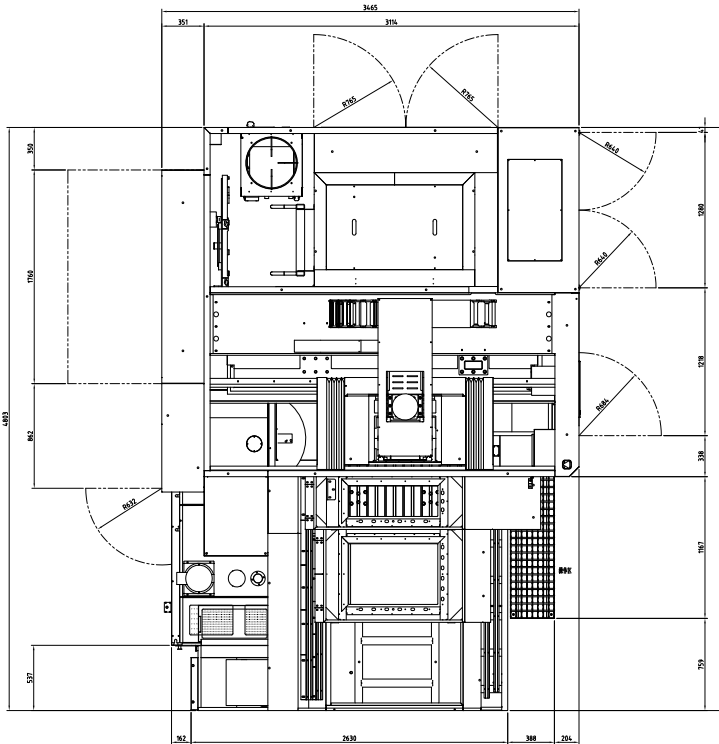
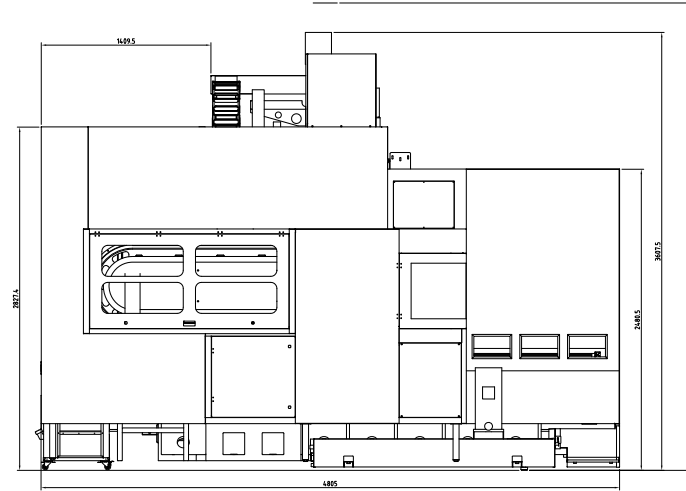
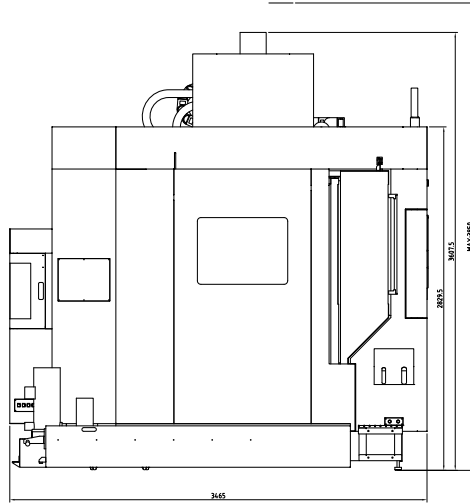
Specification

Specification	GT16
Table	
Table Size	1,800 × 1,050mm
T-slot(width×pitch×quantity	18mm × 150mm × 7
Max. load	3,000kg
Travel	
X/Y/Z Travel	1,600 / 1,200 / 600mm
Spindle nose to table	250-850mm
Spindle	
Spindle speed	HSK A63-20,000rpm
Spindle motor power	30/36kW
Spindle motor torque	72/86Nm
Feed	
Rapid feed X/Y/Z	24 / 24 / 24 m/min
Cutting speed	1-12,000 mm/min
Tool changer	
Number of tools	40 pockets
Max. tool length	300mm
Max. tool diameter	Φ78/Φ125 mm
Max. tool weight	8kg
Accuracy (VDI 3441 Full travel)	
X/Y/Z Positioning accuracy	0.008/0.006/0.006 mm
X/Y/Z Repeatability accuracy	0.004/0.003/0.003 mm
Dimensions & Weight	
Dimensions	4,805 x 3,465 x 3,850 mm
Weight	17,000kg

Standard Configuration
• Siemens Sinumerik 828D • Full enclosed splash guard • Built-in spindle HSK A63 20000rp, 30/36kW, 72/86Nm • 40 pockets chain type tool changer, HSK A63 • Sealed linear scales on X/Y/Z axes • Two screw type and one chain type chip conveyor • Oil cooling through ballscrew • High precision spindle water cooler • Air-condition electrical cabinet • Air blast during cutting • LED working lamp • End of program light • Electrical handwheel (MPG) • Tool box • Leveling bolts and blocks • Coolant gun • Air gun • User manual (mechanical + electrical parts) • Ethernet, CF card and USB interface

Optional Configuration
• Built-in spindle HSK A63 16,000rpm, 30/36kW, 100/120Nm • Built-in spindle HSK A100 10,000rpm, 54/65kW, 300/360Nm • 40 pockets tool changer, HSK A100 • CTS coolant through spindle + ATS • Workpiece probe • Tool probe • Oil mist collector • Oil skimmer • Extra 200GB SSD program memory (only available on SIEMENS)

DIMENSIONS



PRIMINER GLOBAL

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



PRIMINER USA
Greenville, South
Carolina USA



Network of dealers
and partners
Europe



PRIMINER Werkzeugmaschinen GmbH
Neumünster | Germany

PRIMINER Machine Tools
location Dongguan | China



PRIMINER Machine Tools Enping | China



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