
PRIMINER
C500-5X
5 Axis Center
PRIMINER
THE WAY A MACHINE IS BUILT
AFFECTS THE WAY IT PERFORMS

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 GLOBAL

PRIMINER USA | Greenville, South Carolina | USA

Network of dealers and partners | Europe

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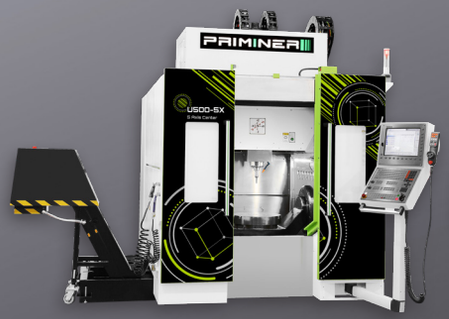
CONTENTS



C-SERIES

U-SERIES

GT-5X-SERIES

PT-FLEX-SERIES

STELLARIS-SERIES

5X

5-axis Machines Specifications

C500-5X·C800-5X

U500-5X

U630-5X

U800-5X

Specifications	C500-5X		C800-5X	U500-5X	U630-5X	U630T-5X	U800-5X		U800T-5X
X/Y/Z-Travel	700 / 550 / 500 mm		900 / 850 / 600 mm	700 / 650 / 450 mm	850 / 875 / 550 mm		1,000 / 1,100 / 600 mm		
A/C-Travel	+30 ° ~ -120 °/ ± 360 °		± 120 °/ ± 360 °	+30 ° ~ -110 °/ ± 360 °	+30 ° ~ -110 ° / ± 360 °		+30 ° ~ -110 ° / ± 360 °		
Table size	Ø 500 x 400 mm		Ø 800 x 700 mm	Ø 500 mm	Ø 630 x 560 mm	Ø 630 mm	Ø 800 x 700 mm		Ø 800 mm
Max. Table load	300 kg		800 kg	500 kg	800 kg	500 kg	1,200 kg		800 kg
Max. Workpiece diameter	Ø 700 x H 500 mm		Ø 900 x H 500 mm	Ø 700 x H 400mm	Ø 850 x H 550 mm		Ø 1,000 x H 700mm		
Spindle taper	BBT40/SK40/CAT40	HSK A63	HSK A63	HSK A63	HSK A63	HSK T63	HSK A100	HSK A63	HSK T63
Spindle speed	12,000 rpm	15,000 rpm	16,000 rpm	20,000 rpm	16,000 rpm	15,000 rpm	10,000 rpm	16,000 rpm	15,000 rpm
Spindle motor power	11 / 18,5 kW	8,5 / 33,5 kW	30/ 36 kW	20 / 24 kW	30 / 36 kW	30 / 36 kW	54 / 65 kW	30 / 36 kW	30 / 36 kW
Spindle motor torque	52.5 / 118 Nm	63 / 135 Nm	100 / 120 Nm	48 / 58 Nm	100 / 120 Nm	100 / 120 Nm	300 / 360 Nm	100 / 120 Nm	100 / 120 Nm
CNC Control	Fanuc	Siemens / Heidenhain							

GT18-5X

GT320-5X | GT420-5X

GT428-5X | GT428-5XG

Specifications	GT18-5X	GT320-5X		GT420-5X		GT428-5X		GT428-5XG
X/Y/Z-Travel	1,900 / 1,400 / 800 mm	3,300 / 2,700 / 1,000 mm		4,200 / 2,700 / 1,000 mm		4,200 / 3,300 / 1,200 mm		4,200 / 3,300 / 1,200 mm
A(B)/C-Travel	±108 °/ ± 360 °	±108 °/ ± 360 °	±115 °/ ± 360 °	±108 °/ ± 360 °	±115 °/ ± 360 °	±110 °/ ± 360 °	±115 °/ ± 360 °	±180 °/ ± 180 °
Table size	1,800 x 1,400 mm	3,300 x 1,700 mm		4,000 x 1,900 mm		4,000 x 2,400 mm		4,000 x 2,400 mm
Max. Table load	6,000 kg	10,000 kg		12,000 kg		15,000 kg		15,000 kg
Spindle taper	HSK A63	HSK A63	HSK A100	HSK A63	HSK A100	HSK A100	HSK A100	BT50
Spindle speed	24,000 rpm	24,000 rpm	15,000 rpm	24,000 rpm	15,000 rpm	12 000 rpm	15,000 rpm	4 000 rpm
Spindle motor power	30 / 35 kW	30 / 35 kW	40 / 50 kW	30 / 35 kW	40 / 50 kW	40 / 47 kW	40 / 50 kW	30 / 63 kW
Spindle motor torque	72 / 85 Nm	72 / 85 Nm	103 / 129 Nm	72 / 85 Nm	103 / 129 Nm	248/293 Nm	103 / 129 Nm	840 / 1760 Nm
CNC Control	Siemens / Heidenhain							

PT-Flex 2520

PT-Flex 2540

Stellaris P18X

Specifications	PT-Flex 2520		PT-Flex 2540		Stellaris P18X
X/Y/Z-Travel	2,000 / 2,500 / 1,000 mm (Option 1,200mm)		4,000 / 2,500 / 1,000 mm (Option 1,200mm)		3,300(2,530×2) / 1,800 / 1,200 mm
A/C-Travel	±108 °/ ± 360 °	±115 °/ ± 360 °	±108 °/ ± 360 °	±115 °/ ± 360 °	±115 °/ ± 360 °
Table size	2,500 x 2,000 mm		2,500 x 4,000 mm		-
Max. Table load	6000 Kg/㎡		6000 Kg/㎡		-
Spindle taper	HSK A63	HSK A100	HSK A63	HSK A100	HSK A63
Spindle speed	24,000 rpm	15,000 rpm	24,000 rpm	15,000 rpm	20,000 rpm
Spindle motor power	30 / 35 kW	40 / 50 kW	30 / 35 kW	40 / 50 kW	20 / 25 kW
Spindle motor torque	72 / 85 Nm	103 / 129 Nm	72 / 85 Nm	103 / 129 Nm	35 / 42 Nm
CNC Control	Siemens / Heidenhain				Siemens

5X

C500-5X · C800-5X

5-axis Machining Center

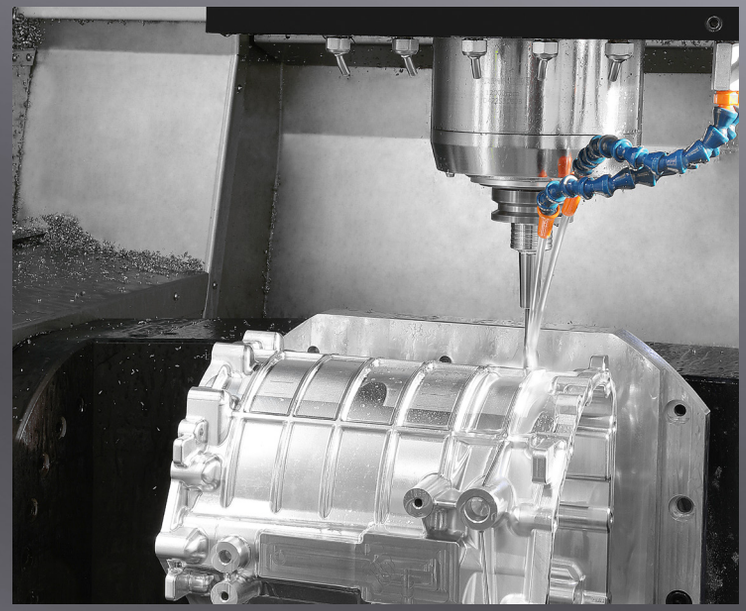
Topseller
of our 5-axis machines!

NEW
Now also available
with automation

Standard Configuration

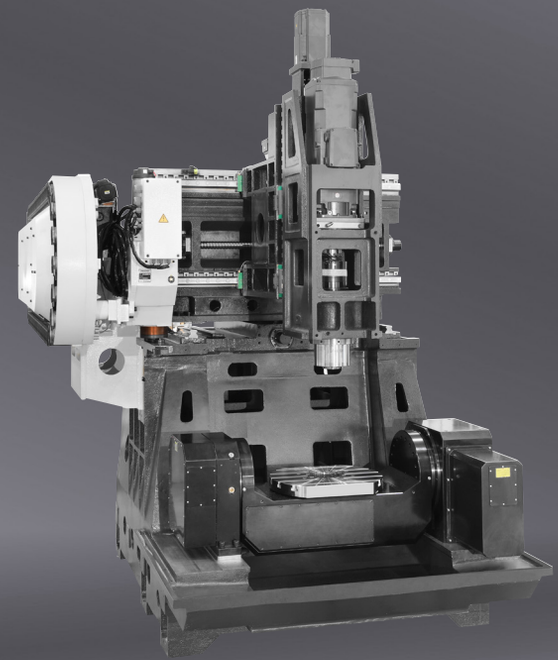
- Roller gear cam drive rotary table
- Direct drive spindle HSK A63 15000rpm, 8.5/33.5kW, 63/135Nm (Siemens / Heidenhain)(C500-5X)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (Fanuc)(C500-5X)
- Built-in spindle HSK A63 16000rpm 30/36kW, 100/120Nm (Siemens & Heidenhain)(C800-5X)
- Rotary encoder on A/C axes (Siemens / Heidenhain)
- 60 pockets chain type tool changer, HSK A63
- 40 pockets chain type tool changer, BBT40/SK40/CAT40/HSK A63
- Chain-type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet

Approx
10tons
Weight



Features

- Moving beam bed structure, allows operators to approach the processing area more easily
- X/Y/Z axes movement are separated from the machining area
- Dual-support rotary table, high rigidity, high performance and efficiency
- A/C axes with roller gear cam drive, high rigidity and heavy-load cutting capability



5X

U500-5X

Gantry-type Machining Center

Features

- One-piece high-quality casting bed
- Gantry-type structure design, X/Y/Z axes movement are separated from the machining area
- Rotary table maximum load of 500kg
- The A/C axes adopts DD motor direct drive technology by high performance torque motor
- Y-axis dual synchronous drive design
- Germany high-torque pneumatic brakes
- Maximum travel up to 700mm
- Maximum workpiece Ø700mm
- Oil cooling through ballscrew

Standard Configuration

- Direct drive rotary table
- Built-in spindle HSK A63 20000rpm 20/24kW, 48/58Nm (Siemens & Heidenhain)
- 32 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on A/C axes
- Chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

High dynamic with torque rotary/swivel table

5X

U630-5X

Gantry-type Machining Center

Features

- One-piece high-quality casting bed
- Gantry-type structure design
- Rotary table maximum load of 800kg(U630) / 500kg(U630T)
- The A/C axes adopts DD motor direct drive technology and the A axis is driven by dual DD motors
- Y-axis dual synchronous drive design
- Germany high-torque pneumatic brakes
- Maximum travel up to 875mm
- Maximum workpiece Ø850mm
- Oil cooling through ballscrew

Standard Configuration

- Direct drive rotary table
- Built-in spindle HSK A63 16000rpm 30/36kW, 100/120Nm (Siemens & Heidenhain)
- Built-in spindle HSK T63 15000rpm 30/36kW, 100/120Nm (Siemens & Heidenhain)
- 60 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on A/C axes
- Chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

Turning function is available with U630T-5X model

For more information, visit **www.priminer.de**

5X

U800-5X

Gantry-type Machining Center

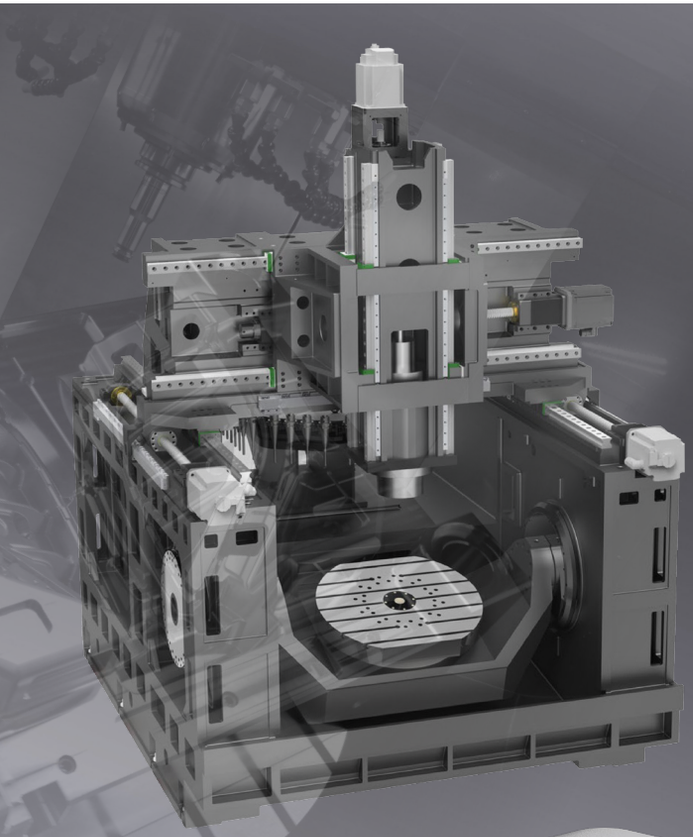
Turning function is available with U800T-5X model

Optional:
HSK A100 spindle with up to 360 Nm torque

Standard Configuration

- Direct drive rotary table
- Built-in spindle HSK A63 16000rpm 30/36kW, 100/120Nm (Siemens & Heidenhain)
- Built-in spindle HSK T63 15000rpm 30/36kW, 100/120Nm (Siemens & Heidenhain)
- 60 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on A/C axes
- Chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

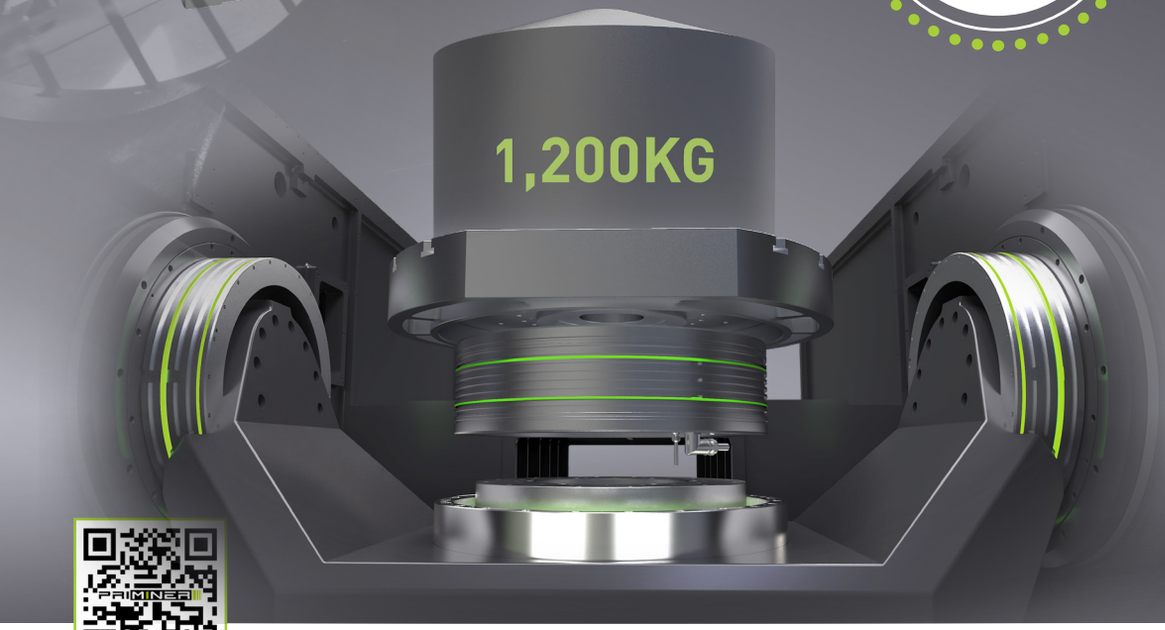
Approx. 20 tons Weight

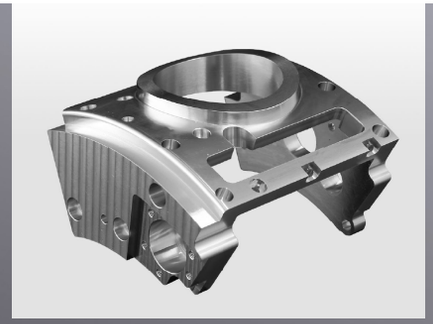


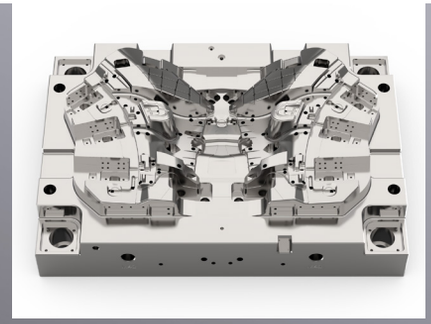
Features

- One-piece high-quality casting bed
- Gantry-type structure design
- Rotary table maximum load of 1200kg(U800) / 800kg(U800T)
- The A/C axes adopts DD motor direct drive technology and the A axis is driven by dual DD motors
- Y-axis dual synchronous drive design
- Germany pneumatic brakes, A-axis braking torque 9,360Nm
- Maximum travel up to 1,100mm
- Maximum workpiece Ø1000mm
- Oil cooling through ballscrew

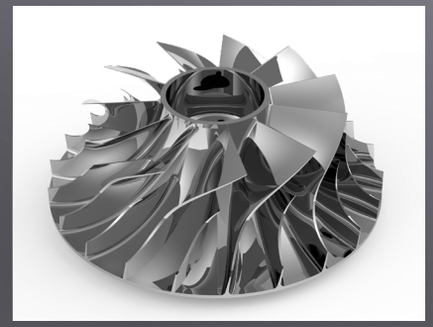
Isolated axis movement – no influence by workpiece handling







Automotive & High Precision Application



Aircraft & New Energy Application

For more information, visit **www.priminer.de**

5X

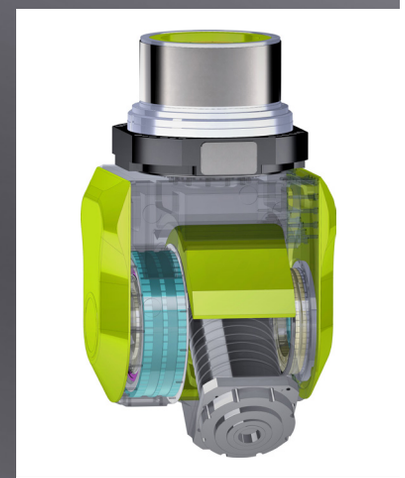
GT18-5X

Double Column 5-axis Machining Center

Standard Configuration

- Model S B/C head, built-in spindle HSK A63 24000rpm 30/35kW, 72/85Nm (Siemens & Heidenhain)
- 60 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on B/C axes
- Two screw type and one chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

Optimized double column construction



Features

- Gantry-type structural design
- The base is make of one-piece cast-iron
- Dual drive on Y axis to ensure the best dynamic performance
- The worktable adopts a dual ball screw drive structure and is supported by three high-rigidity roller guideways
- DD driven double arm head
- B/C axes adopt direct drive (DD) motor technology

For more information, visit **www.priminer.de**

5X

GT320-5X · GT420-5X

Double Column 5-axis Machining Center

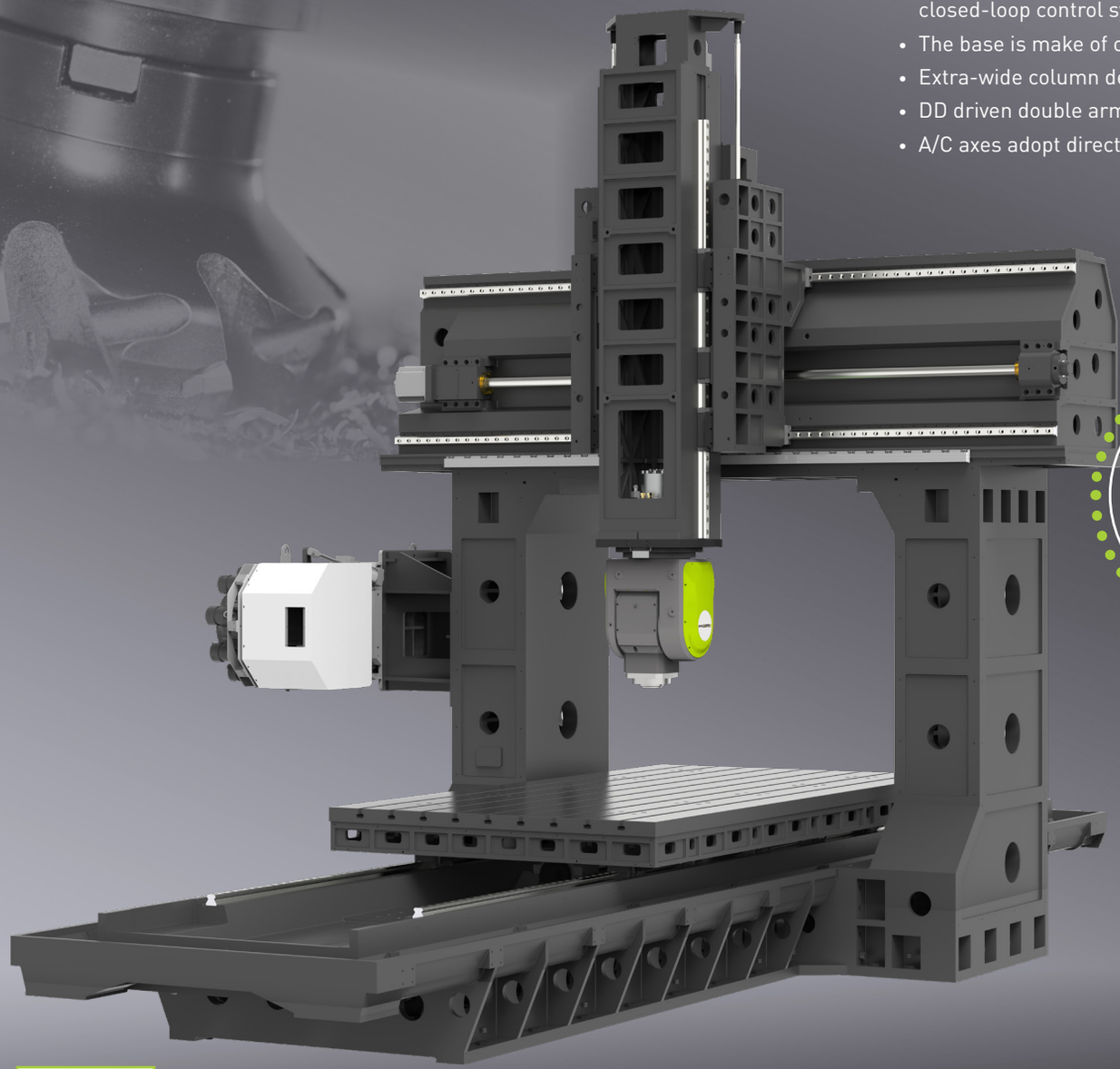
Standard Configuration

- Model S A/C head, built-in spindle HSK A63 24000rpm 30/35kW, 72/85Nm (Siemens & Heidenhain)
- 60 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on A/C axes
- Two screw type and one chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

The above specifications are subject to change without prior notice.

Features

- Gantry-type structural design
- The worktable adopts a ballscrew drive with a full closed-loop control system using a sealed linear scale
- The base is make of one-piece cast-iron
- Extra-wide column design
- DD driven double arm head
- A/C axes adopt direct-drive (DD) motor technology



Optimized double column construction

For more information, visit **www.priminer.de**

5X

GT428-5X · GT428-5XG

High Rigidity Double Column 5-axis Machining Center

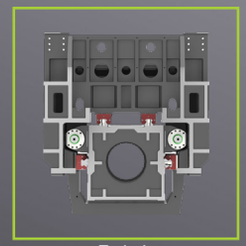
Standard Configuration

- Model XL AC head, built in spindle HSK A100 12000rpm 40/47kW, 248/293Nm (Siemens & Heidenhain) (GT428-5X)
- 60 pockets chain type tool changer, HSK A100
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on A/C axes
- Two screw type and one chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

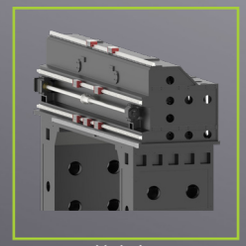
The above specifications are subject to change without prior notice.

Features

- Gantry-type structural design
- The base is make of one-piece cast-iron
- Z-axis is supported by four high-rigidity roller guideways
- DD driven double arm head
- A/C axes adopt direct drive (DD) motor technology



Z-Axis
4 linear guideway



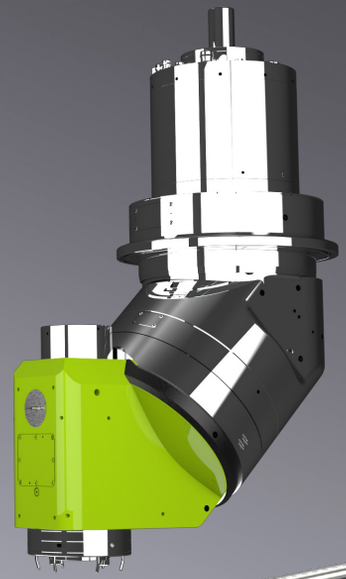
Y-Axis
3 linear guideway

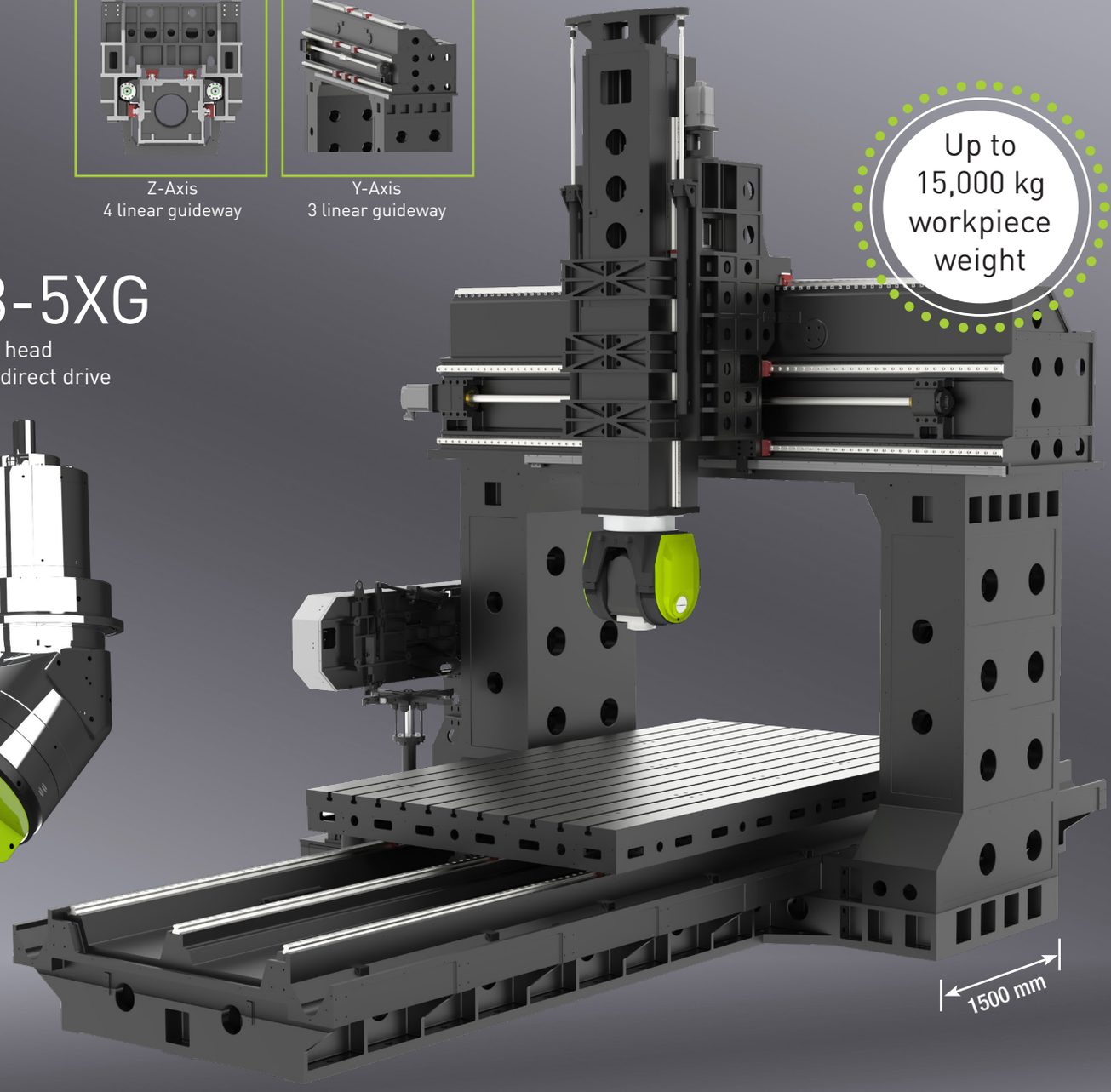
GT428-5XG

Optional Universal head
with torque motor direct drive

GT428-5X

5-axis simultaneous milling head
with torque motor direct drives





For more information, visit **www.priminer.de**

5X

PT-Flex Series

High Speed Gantry Type 5-axis Machining Center

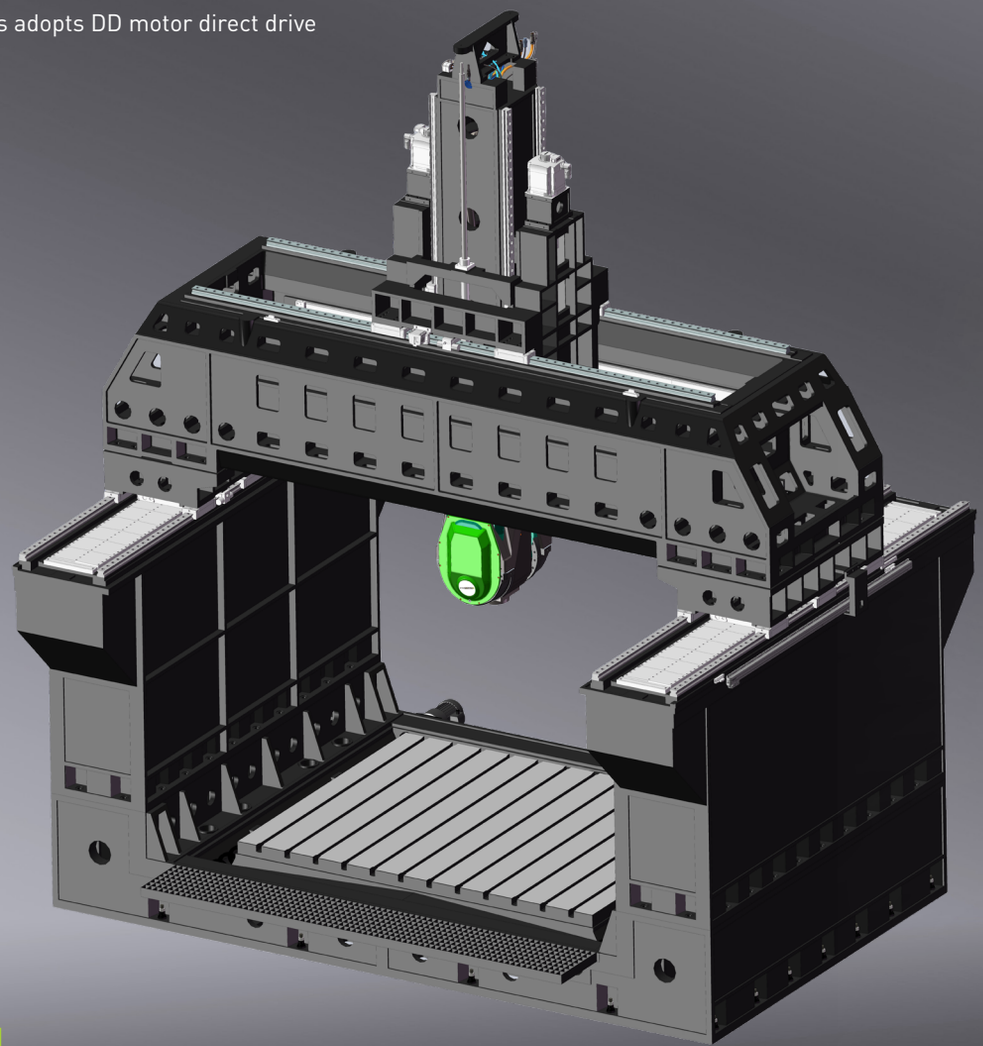
X/Y axis
Linear motor
Direct drive

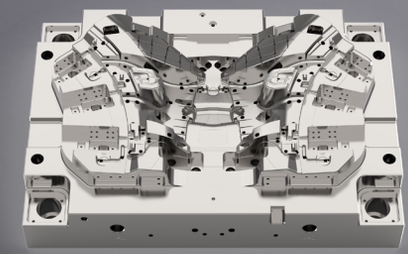
Standard Configuration

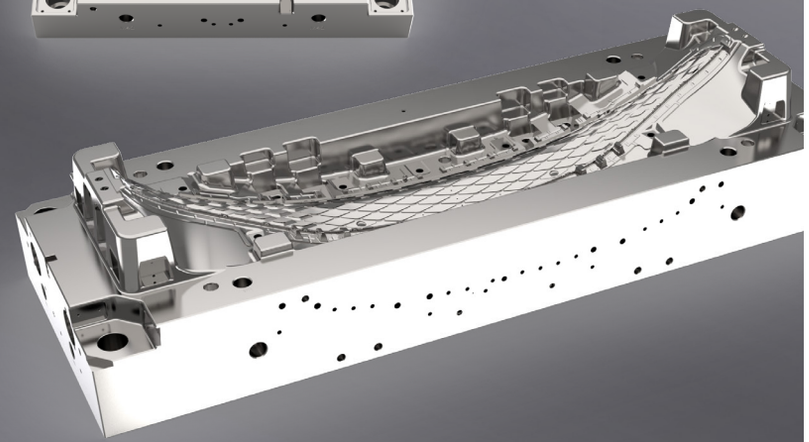
- Model S AC head, bulit-in spindle HSK A63 24000rpm, 30/35kW, 72/85Nm (SIEMENS/ HEIDENHAIN)
- 32 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on B/C axes
- Two screw type and one chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet

Features

- Gantry type structure design
- Symmetrical columns and one-piece base structure
- Box-in-box symmetrical crossbeam structure
- X/Y axes linear motor direct drive (60m/min)
- Z-axis is supported by for high-rigidity roller linear guideway
- DD driven double arm head
- B/C axes adopts DD motor direct drive







For more information, visit **www.priminer.de**

11X

STELLARIS P18X

High Speed Gantry Type Multi Axes Machining Center

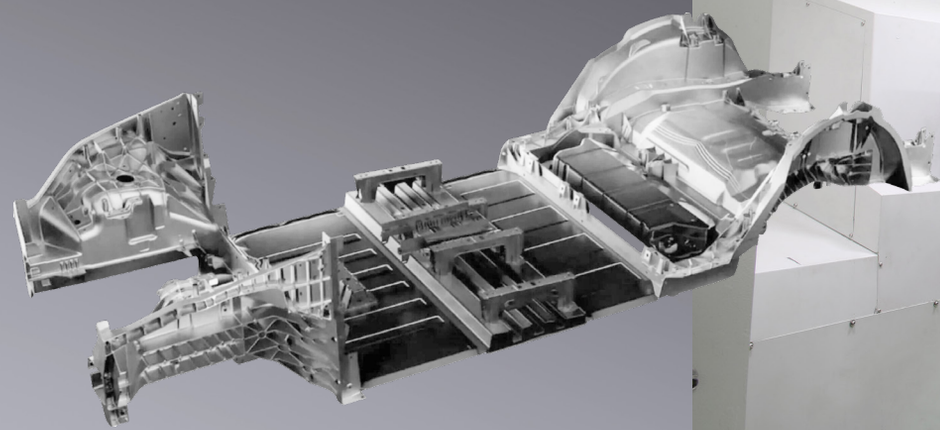
OUR MOST PRODUCTIVE for Gigacasting

Features

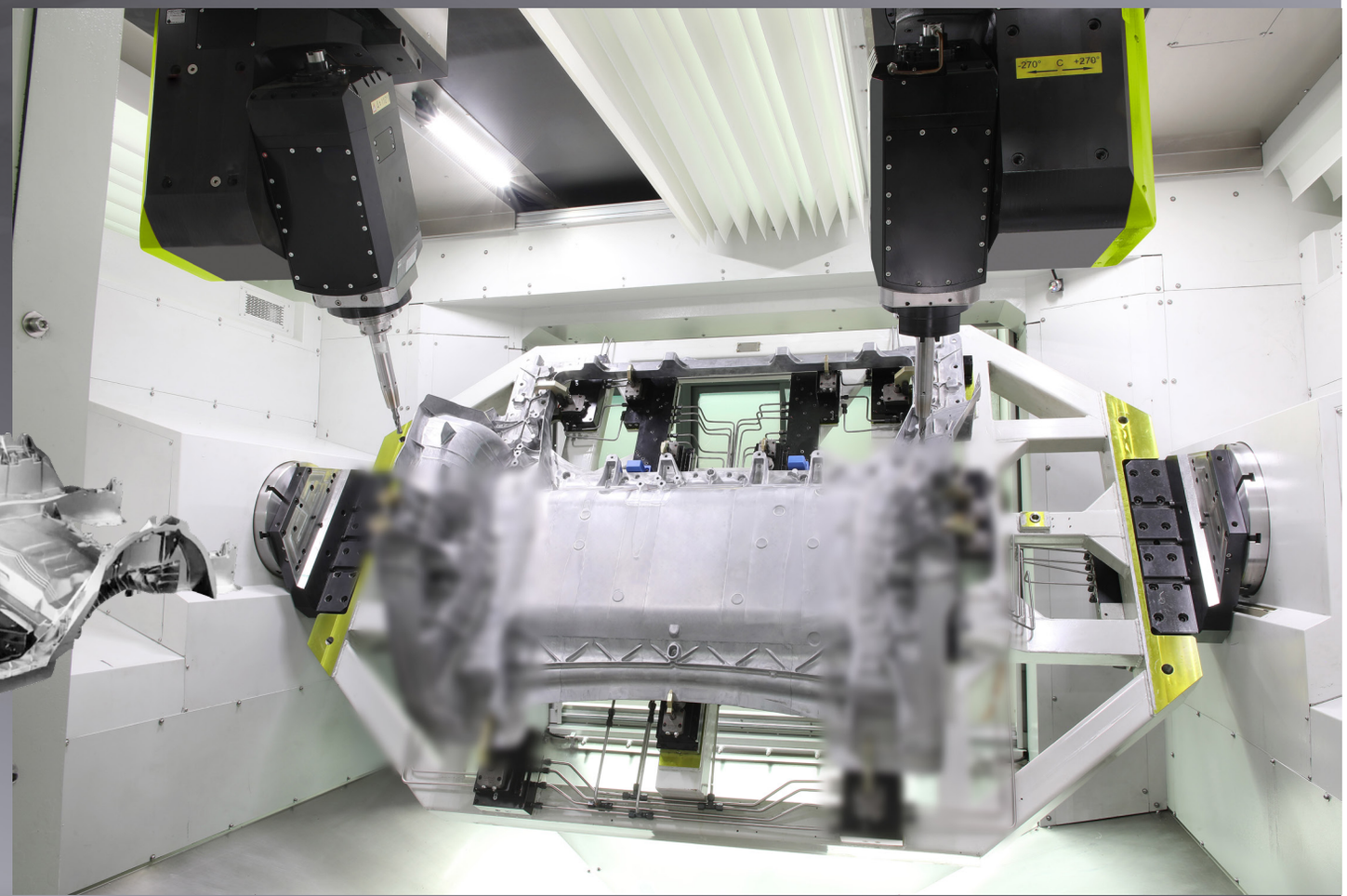
- Dual-channel, dual milling head, 11-axis simultaneous independent machining
- Linear motor direct-drive 110 m/min, maximum acceleration 1G
- Optimized footprint for efficient robotic loading & unloading and improved logistics design

The above specifications are subject to change without prior notice.

Simultaneous machining on 2 channels for max. productivity



EV Automotive Casting Workpiece



For more information, visit **www.priminer.de**

AUTOMATION – Efficiency rethought

Modern production requires maximum productivity, flexibility and process reliability. PRIMINER machining centers offer the ideal basis for automated operation - whether in single-part or series production. By integrating intelligent automation solutions, the performance of the machines is fully exploited.

Individually adaptable - for every production environment PRIMINER machines can be combined with various automation systems - including:

- Pallet changer for fast workpiece changes
- Robot solutions for automated loading and unloading
- Flexible production cells for unmanned shifts
- Interfaces for connection to higher-level systems (e.g. ERP/MES)

These options allow precise adaptation to the respective production processes and increase efficiency in the long term.

Benefits at a Glance

Higher machine utilization:
24/7 production – even during unmanned operation

Reduced downtime:
Quick change of workpieces or clamping devices

Stable process quality:
Repeatable processes with minimal tolerances

Cost reduction:
Lower unit costs through automated series production

Competitive advantage:
Quick response to market demands through scalable manufacturing

5X with Automation
by

ZERO CLAMP®
Automation

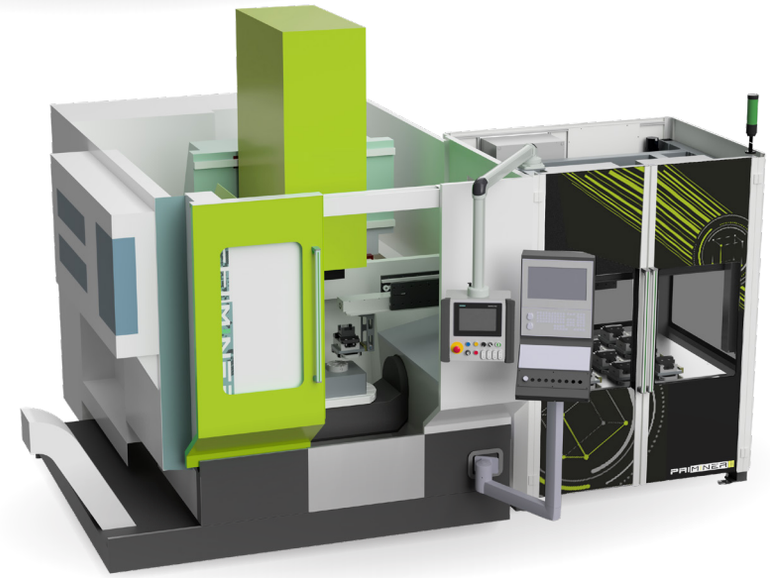
- ▶ Machine
  - ▶ Automation
    - ▶ Zero-point clamping system
      - ▶ Vise

EVERYTHING FROM A SINGLE SOURCE

Example:
5 axis machine with Zerobot

High-precision 5-axis machining combined with fully automated workpiece handling for maximum productivity and minimized setup times.

3X and 5X with Automation



Example:
3 axis & 5 axis machine with Priminer Automation

High-performance vertical machining centers from PRIMINER, combined with automated workpiece loading, enable high part variety and efficient series production.

CONTROL TECHNOLOGY – Intelligence in every moment

SIEMENS

HEIDENHAIN

The control system is the heart of every machine tool - it determines precision, process reliability and productivity. This is why PRIMINER relies exclusively on proven CNC control systems from the world's leading manufacturers for all its machining centers. Depending on the model, our machines are available with control systems from Siemens, Heidenhain or Fanuc - flexibly configurable and precisely tailored to the respective application and production environment.

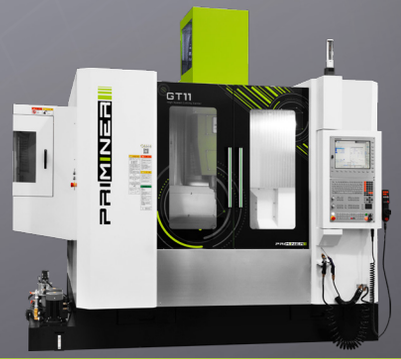
PRIMINER combines reliable mechanics with intelligent control - for maximum control in every dimension.

FANUC

Whether Siemens, Heidenhain, or Fanuc – our machines run reliably because we know exactly what matters.

Matthias Mehrens und Flemming Hahn, Service technician

3X



GT-SERIES

UHP-SERIES

SHOPMATE V5

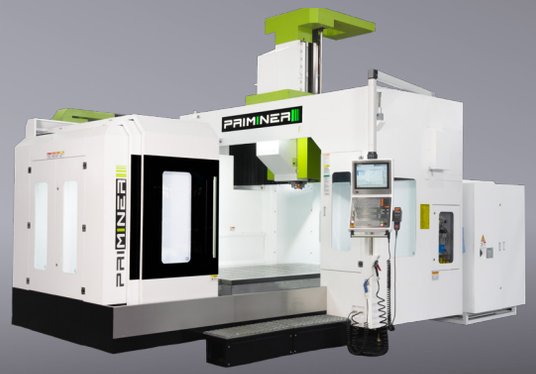
DELTA CENTER-SERIES

3X

ALPHA CENTER -SERIES

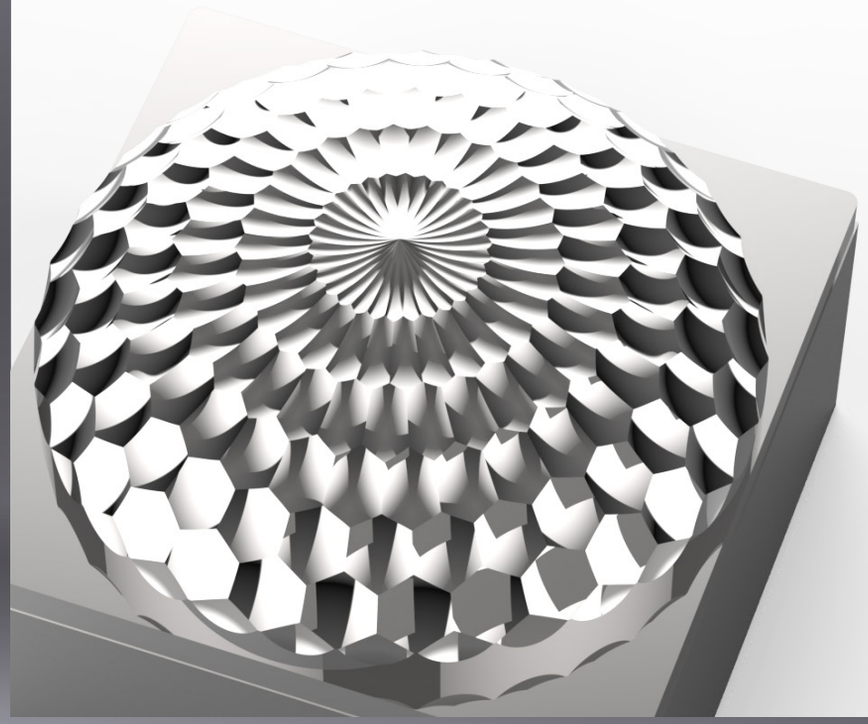
POWER CENTER -SERIES

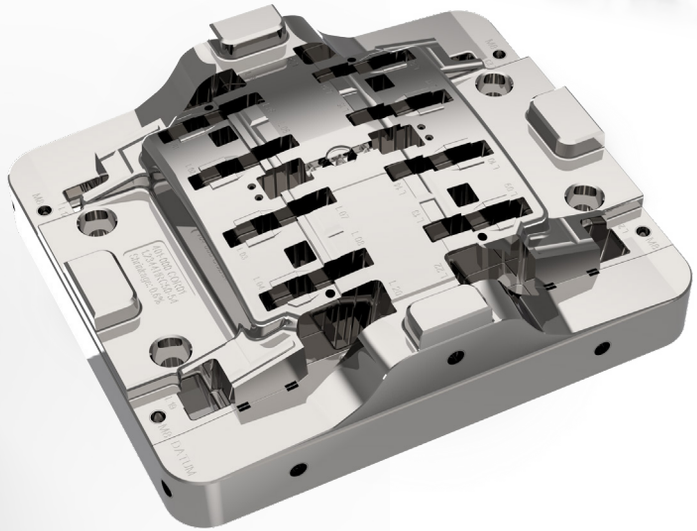
DOUBLE COLUMN MACHINING CENTER



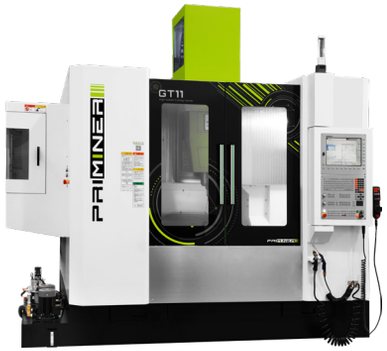
DOUBLE COLUMN MACHINING CENTER

3-axis machines overview





GT7



GT11

GT16

GT18

Specifications	GT7		GT11	GT16		GT18
X/Y/Z-Travel	700 / 600 / 450 mm		1,150 / 700 / 520 mm	1,600 / 1,200 / 600 mm		1,800 / 1,400 / 800 mm
Table size	800 x 600 mm		1,200 x 700 mm	1,800 x 1,050 mm		1,800 x 1,400 mm
Max. Table load	600 kg		1,500 kg	3,000 kg		6,000 kg
Spindle taper	HSK A63	HSK E32	HSK A63	HSK A100	HSK A63	HSK A63
Spindle taper	20,000 rpm	40,000 rpm	20,000 rpm	10,000 rpm	20,000 rpm	20,000 rpm
Spindle motor power	20 / 24 kW	6.3 / 9.45 kW	30 / 36 kW	54 / 65 kW	30 / 36 kW	30 / 36 kW
Spindle motor torque	48 / 58 Nm	2 / 3 Nm	72 / 86 Nm	300 / 360 Nm	72 / 86 Nm	100 / 120 Nm
CNC Control	Siemens / Heidenhain					

UHP900

UHP1100

UHP1300

Specifications	UHP900		UHP1100		UHP1300	
X/Y/Z-Travel	900 / 600 / 600 mm		1,100 / 650 / 600 mm		1,300 / 650 / 600 mm	
Table size	1,060 x 600 mm		1,300 x 600 mm		1,500 x 650 mm	
Max. Table load	800 kg		1,000 kg		1,200 kg	
Spindle taper	BBT40/SK40/CAT40	BBT40/SK40/CAT40	BBT40/SK40/CAT40	BBT40/SK40/CAT40	BBT40/SK40/CAT40	BBT40/SK40/CAT40
Spindle speed	12,000 rpm	12,000 rpm	12,000 rpm	15,000 rpm	12,000 rpm	15,000 rpm
Spindle motor power	11 / 18.5 kW	9 / 22 kW	15 / 30 kW	20 / 53 kW	15 / 30 kW	20 / 53 kW
Spindle motor torque	52.5 / 118 Nm	63 / 135 Nm	95.5 / 191 Nm	126 / 250 Nm	95.5 / 191 Nm	126 / 250 Nm
CNC Control	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain

V7L

V11L

V13L

V15L

V18

Specifications	V7L		V11L		V13L		V15L		V18	
X/Y/Z-Travel	760 / 450 / 520 mm		1,100 / 600 / 600 mm		1,300 / 650 / 600 mm		1,500 / 760 / 700 mm		1,800 / 900 / 800 mm	
Table size	900 x 420 mm		1,200 x 600 mm		1,500 x 650 mm		1,700 x 700 mm		2,000 x 900 mm	
Max. Table load	500 kg		1,000 kg		1,200 kg		1,500 kg		1,600 kg	
Spindle taper	SK40 / BT40 / CAT40		SK40 / BT40 / CAT40		SK40 / BT40 / CAT40		SK40 / BT40 / CAT40		BT50 / SK50	
Spindle taper	10,000 rpm		10,000 rpm		10,000 rpm		10,000 rpm		6,000 rpm	
Spindle motor power	7.5 / 15 kW	9 / 22 kW	11 / 18.5 kW	9 / 22 kW	11 / 18.5 kW	20 / 53 kW	11 / 18.5 kW	20 / 53 kW	15 / 20.3 kW	17 / 42 kW
Spindle motor torque	35.8 / 95.5 Nm	63 / 135 Nm	52.5 / 118 Nm	63 / 135 Nm	52.5 / 118 Nm	126 / 250 Nm	52.5 / 118 Nm	126 / 250 Nm	143 / 259 Nm	183 / 400 Nm
CNC Control	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens

3X

ShopMate V5

T7

V7L Lite

V10L

Specifications	ShopMate V5		T7		V7L Lite Delta Center		V10L Delta Center	
X/Y/Z-Travel	500 / 300 / 400 mm		700 / 450 / 300 mm		760 / 450 / 520 mm		1,020 / 530 / 560 mm	
Table size	650 x 300 mm		800 x 420 mm		900 x 420 mm		1,100 x 500 mm	
Max. Table load	200 kg		250 kg		500 kg		600 kg	
Spindle taper	BT40 / SK40 / CAT40		BBT30		SK40 / BT40 / CAT40		SK40 / BT40 / CAT40	
Spindle taper	10,000 rpm		12,000 rpm		10,000 rpm		10,000 rpm	
Spindle motor power	3.7 / 13 kW	4.8 / 21 kW	3.7 / 13 kW	4.8 / 21 kW	3.7 / 13 kW	7.5 / 15 kW	7.5 / 15 kW	7.5 / 15 kW
Spindle motor torque	23.6 / 82.8 Nm	21 / 45 Nm	23.6 / 82.8 Nm	21 / 45 Nm	23.6 / 82.8 Nm	36 / 72 Nm	35.8 / 95.5 Nm	36 / 72 Nm
CNC Control	Fanuc	Siemens	Fanuc	Siemens	Fanuc	Siemens	Fanuc	Siemens

V1613HS

V2516

V3320/4020

V4028

Specifications	V1613HS	V2516		V3320		V4020		V4028	
X/Y/Z-Travel	1,600 / 1,300 / 600 mm	2,500 / 1,600 / 800 mm		3,300 / 2,700 / 1,000 mm		4,200 / 2,700 / 1,000 mm		4,200 / 3,300 / 1,200 mm	
Table size	1,700 x 1,200 mm	2,500 x 1,400 mm		3,300 x 1,700 mm		4,000 x 1,900 mm		4,000 x 2,400 mm	
Max. Table load	3,000 kg	7,000 kg		10,000 kg		12,000 kg		15,000 kg	
Spindle Taper	HSK A63	BT50 / SK50		BT50 / SK50		BT50 / SK50		BT50 / SK50	
Spindle speed	18,000 rpm	6,000 rpm		6,000 rpm		6,000 rpm		6,000 rpm	
Spindle motor power	30 / 36 kW	15 / 20.3 kW	17 / 42 kW	22 / 45 kW	22 / 60 kW	22 / 45 kW	22 / 60 kW	22 / 45 kW	22 / 60 kW
Spindle motor torque	85 / 102 Nm	143 / 259 Nm	183 / 400 Nm	140 / 286 Nm	172 / 380 Nm	140 / 286 Nm	172 / 380 Nm	140 / 286 Nm	172 / 380 Nm
CNC- Control	Siemens / Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain	Fanuc	Siemens Heidenhain

3X

GT7

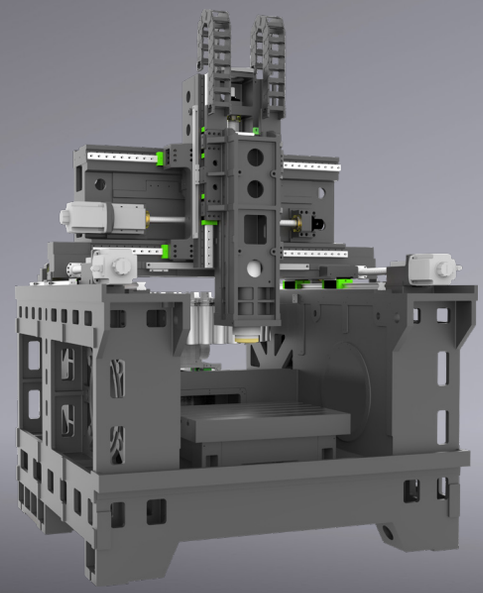
Gantry Type Machining Center

Features

- 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 Configuration

- Built-in spindle HSK A63 20000rpm 20/24kW, 48/58Nm (Siemens & Heidenhain)
- 32 pockets tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet



The above specifications are subject to change without prior notice.

3X

GT11

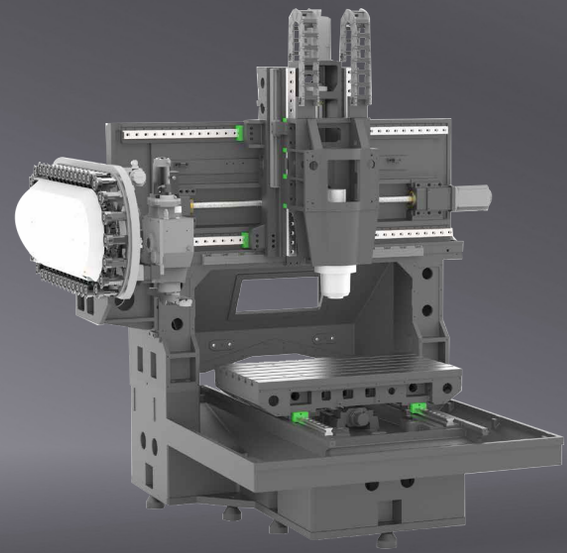
High Speed Double Column Machining Center

Features

- High-rigidity double column structure design
- The base, crossbeam, and double column are all made of integrated cast iron components

Standard Configuration

- Built-in spindle HSK A63 20000rm 30/36kW, 72/86Nm (Siemens & Heidenhain)
- 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
- High precision spindle water cooler
- Air-condition electrical cabinet



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GT16

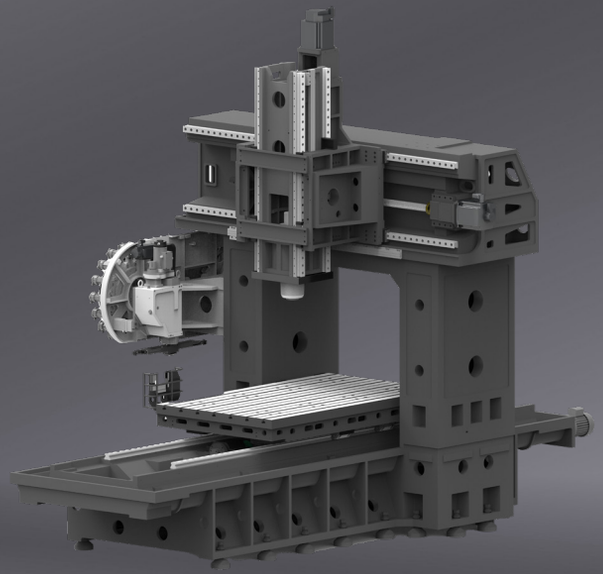
High Speed Double Column Machining Center

Features

- High-rigidity double column structure design
- The base, crossbeam, and double column are all made of integrated cast iron components

Standard Configuration

- Built-in spindle HSK A63 20000rpm 30/36kW, 72/86Nm (Siemens & Heidenhain)
- 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
- High precision spindle water cooler
- Air-condition electrical cabinet



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GT18

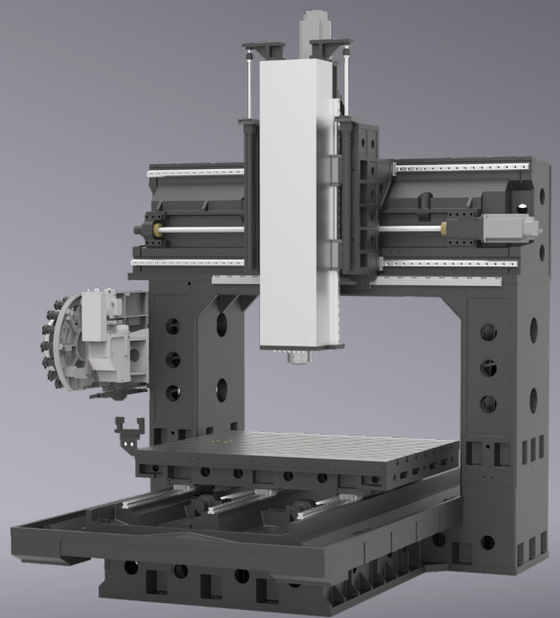
High Speed Double Column Machining Center

Features

- High-rigidity double column structure design
- The base, crossbeam, and double column are all made of integrated cast iron components
- Dual drive on Y axis to ensure the best dynamic performance

Standard Configuration

- Built-in spindle HSK A63 20000rpm 30/36kW, 100/120Nm (Siemens & Heidenhain)
- 60 pockets chain type tool changer, HSK A63
- Sealed linear scales on X/Y/Z axes
- Two screw type and one chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet



3X

UHP900

Ultra-high Performance Machining Center

Features

- High-rigidity design, with reinforced ribs using a triangular structure for excellent rigidity and stability.

Standard Configuration

- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 9/22kW, 63/135Nm (Siemens & Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet

Optional Configuration

- Direct drive spindle BBT40/SK40/CAT40/ HSK A63 15000 rpm, 9/22kW, 63/135Nm (SIEMENS / HEIDENHAIN)
- Built-in spindle HSK A63 20000rpm, 20/24kW, 48/58Nm (SIEMENS / HEIDENHAIN)
- Direct drive spindle BBT40/SK40/CAT40/ HSK A63 15000 rpm, 9/15kW, 57.3/119Nm (FANUC)

The above specifications are subject to change without prior notice.

3X

UHP1100 · 1300

Ultra-high Performance Machining Center

Features

- High-rigidity design, with reinforced ribs using a triangular structure for excellent rigidity and stability.

Standard Configuration

- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 20/53kW, 126/250Nm (Siemens & Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 15/30kW, 95.5/191Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Two screw type and one chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet

Optional Configuration

- Built-in spindle HSK A63 18000rpm, 30/36kW, 85/102Nm (SIEMENS / HEIDENHAIN)
- Direct drive spindle HSK A63 15000 rpm, 20/53kW, 126/250Nm (SIEMENS / HEIDENHAIN)
- Direct drive spindle BBT50 10000 rpm, 20/53kW, 126/250Nm (SIEMENS / HEIDENHAIN)

For more information, visit **www.priminer.de**

3X

V7L

High Performance Machining Center

Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime

Standard Configuration

- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 9/22kW, 63/135Nm (Siemens)
- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 7.5/15kW, 35.8/95.5Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet

Optional Configuration

- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 9/22kW, 63/135Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- Belt drive spindle BBT40/SK40/CAT40 15000 rpm, 8.5/33.5kW, 63/135Nm (Siemens&Heidenhain)

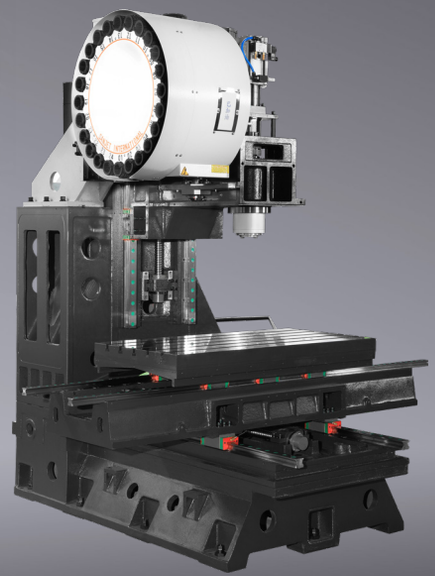
3X

V11L

High Performance Machining Center

Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime



Standard Configuration

- Belt drive spindle BT40/SK40/CAT40 10000rpm, 9/22kW, 63/135Nm (Siemens & Heidenhain)
- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet

Optional Configuration

- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 9/22kW, 63/135Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 8.5/33.5kW, 63/135Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 9/15kW, 57.3/119Nm (FANUC)

For more information, visit **www.priminer.de**

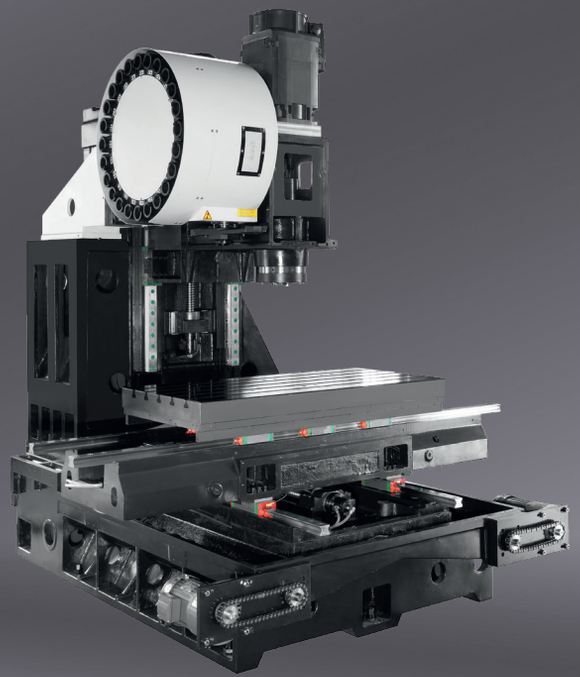
3X

V13L

High Performance Machining Center

Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime



Standard Configuration

- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 20/53kW, 126/250Nm (Siemens & Heidenhain)
- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Two screw type and one chain type chip conveyor
  Spindle oil cooler
- Air-condition electrical cabinet

Optional Configuration

- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 20/53kW, 126/250Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 20/53kW, 126/250Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 9/15kW, 57.3/119Nm (FANUC)

3X

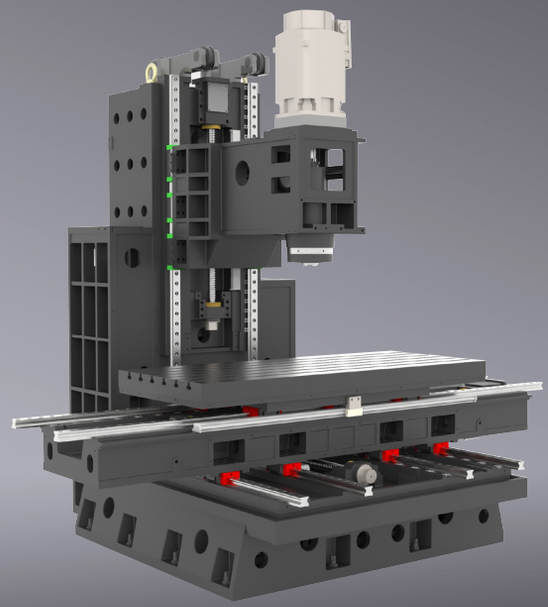
V15L

High Performance Machining Center

Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime

Y-Axis adopts 4 ways roller type linear guideways



Standard Configuration

- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 20/53kW, 126/250Nm (Siemens & Heidenhain)
- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Two screw type and one chain type chip conveyor
  Spindle oil cooler
- Air-condition electrical cabinet

Optional Configuration

- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 20/53kW, 126/250Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 12000 rpm, 11/18.5kW, 52.5/118Nm (FANUC)
- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 20/53kW, 126/250Nm (Siemens&Heidenhain)
- Direct drive spindle BBT40/SK40/CAT40 15000 rpm, 9/15kW, 57.3/119Nm (FANUC)

3X

V18

High Performance Machining Center

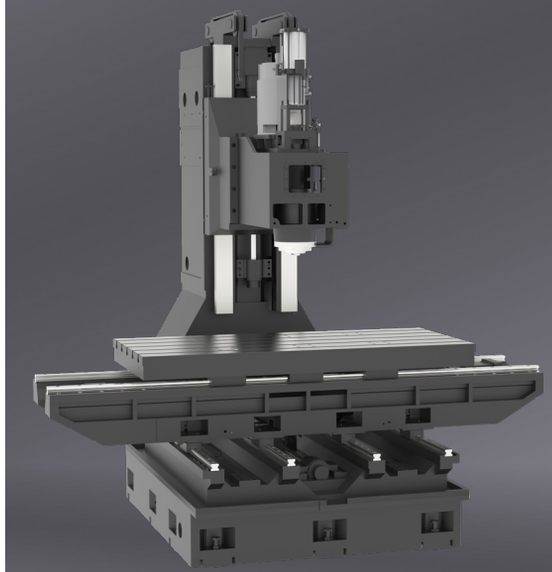
Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime

Y-Axis adopts 4 ways roller type linear guideways

Standard Configuration

- Belt drive spindle BT50/SK50 6000 rpm, 17/42 kW, 183/400Nm (Siemens)
- Belt drive spindle BT50/SK50 6000 rpm, 15/20.3 kW, 143/259Nm (FANUC)
- 24 pockets arm type tool changer, BT50/SK50/CAT50
- Two screw type and one chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet



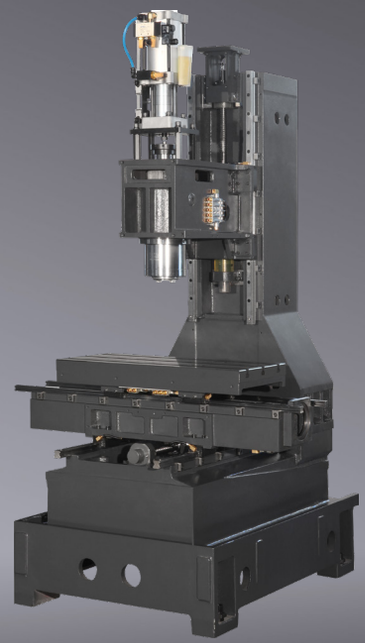
3X

ShopMate V5

High Performance Machining Center

Features

- Training
- Tool room workshop
- Metal parts machining
- Model making
- Cast iron is tempered for stress relief
  to ensure machine stability without deformation



Standard Configuration

- Belt drive spindle BT40/SK40/CAT40
  10000 rpm, 3.7/13kW, 23.6/82.8Nm
  (Siemens)
- Belt drive spindle BT40/SK40/CAT40
  10000 rpm, 4.8/21kW, 21/45Nm
  (FANUC)
- 12 positions umbrella tool changer,
  BT40/SK40/CAT40
- Ball type linear guideways on all axis
- Spindle oil cooler
- Heat exchanger for electrical cabinet

3X

T7

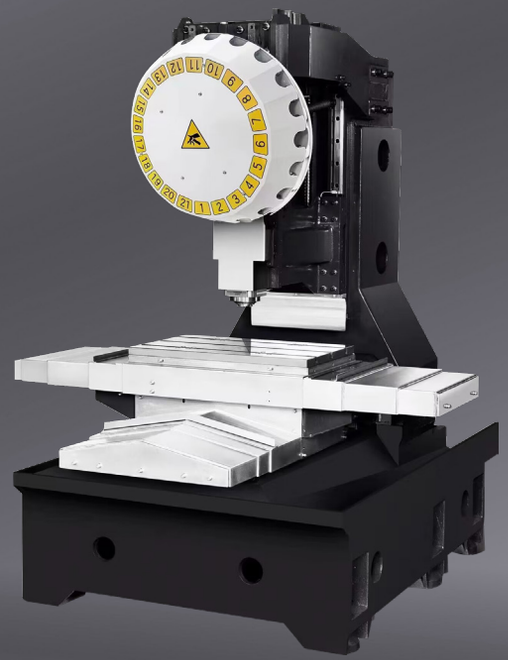
High Performance Machining Center

Features

- Highly rigid machine frame for high acceleration
- High speed and low noise ballscrew and linear guideways on three axes
- Rapid feed 48 m/min to reduce non-machining time

Standard Configuration

- Direct Drive Spindle BBT30 12000 rpm 4.8/21kW, 21/45Nm (Siemens)
- Direct Drive Spindle BBT30 12000 rpm 3.7/13kW, 23.6/82.8Nm (FANUC)
- 26 pockets servo type tool changer, BBT30
- Ball type linear guideways on all axis
- Spindle oil cooler
- Heat exchanger for electrical cabinet



3X

V7L Lite

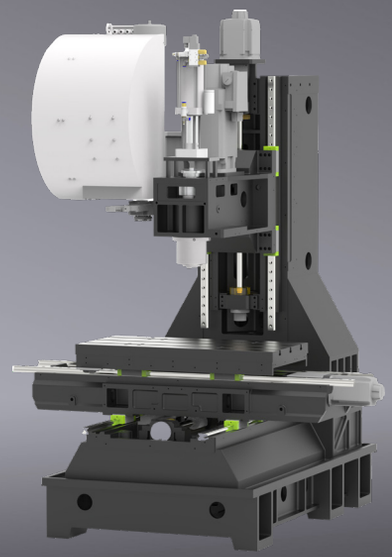
High Performance Machining Center

Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime

Standard Configuration

- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 7.5/15kW, 36/72Nm (Siemens)
- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 3.7/13kW, 23.6/82.8Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Ball type linear guideways on all axis
- Screw type chip conveyor
- Spindle oil cooler
- Heat exchanger for electrical cabinet



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V10L

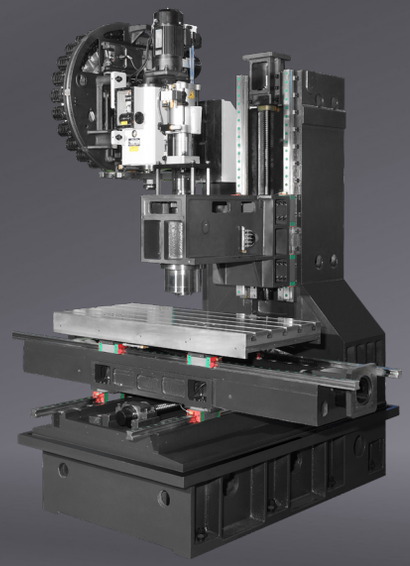
High Performance Machining Center

Features

- Fully enclosed tool magazine cover and full enclosure protection for the machine
- More efficient chip removal system
- Optimized coolant tank structure design for better filtration and easier maintenance
- Optimized pipeline installation with drag chain to extend the lifetime

Standard Configuration

- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 7.5/15kW, 36/72Nm (Siemens)
- Belt drive spindle BT40/SK40/CAT40 10000 rpm, 7.5/15kW, 35.8/95.5Nm (FANUC)
- 24 pockets arm type tool changer, BT40/SK40/CAT40
- Roller type linear guideways on all axis
- Chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet



3X

V1613HS

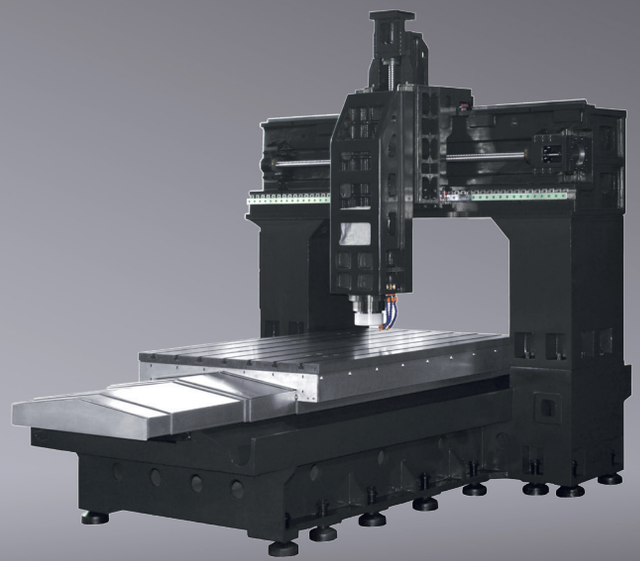
Double Column Machining Center

Features

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3-class ball screws ensure the highest accuracy and durability
- Pre-tensioning on all axes minimizes thermal distortion
- Roller-type linear guideways provide super high rigidity and load capacity

Standard Configuration

- Built-in spindle HSK A63 18000 rpm 30/36 kW 85/102 Nm (Siemens & Heidenhain)
- Roller type linear guideways on all axis
- Two screw type and one chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet



3X

V2516

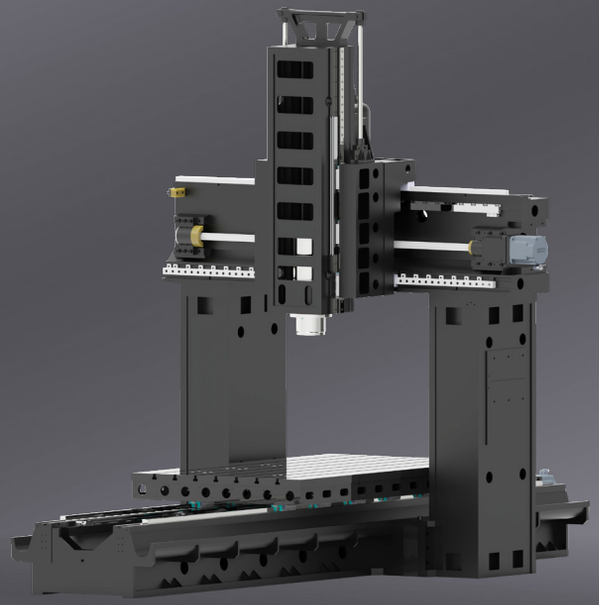
Double Column Machining Center

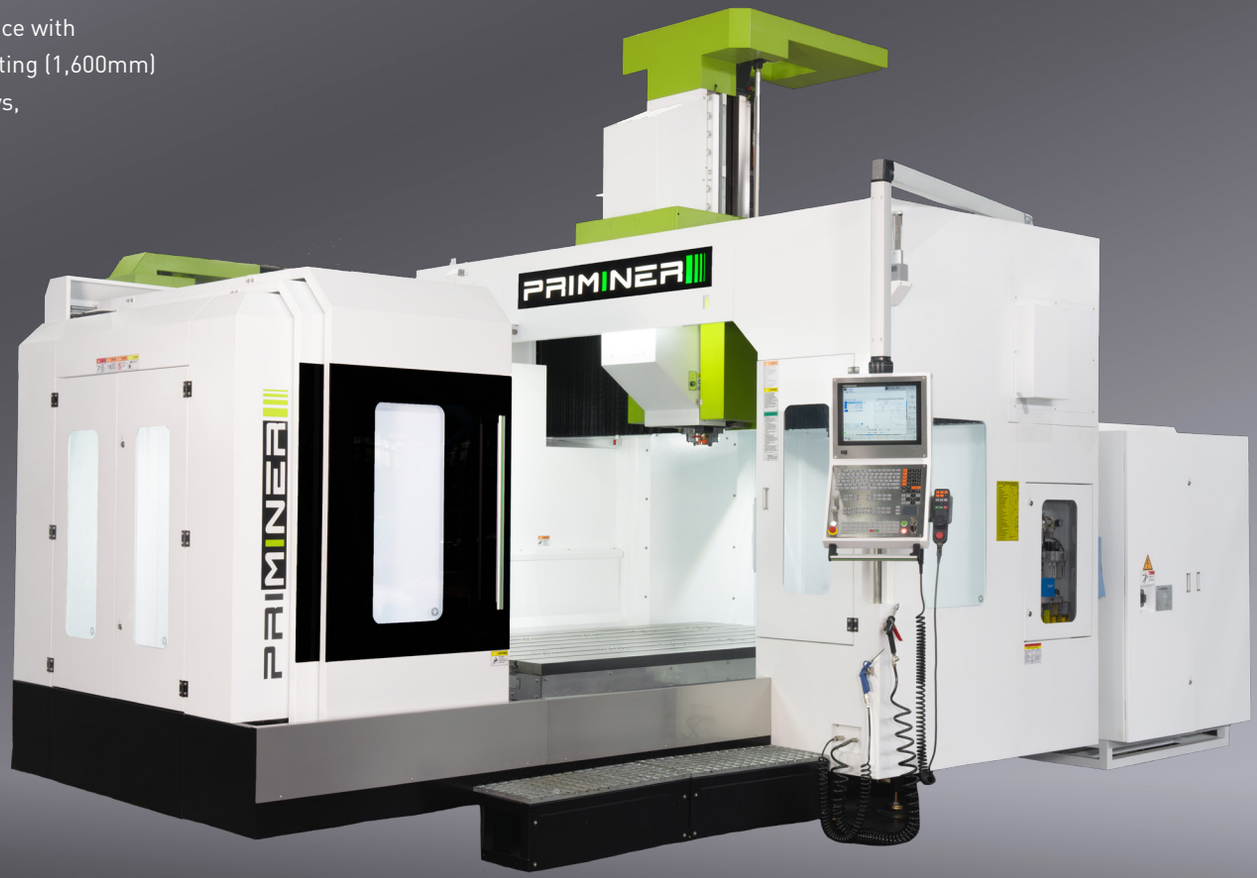
Features

- Gantry-type structural design
- The worktable adopts ball screw drive
- The base, crossbeam and double column are all made of integrated cast iron components
- Extra wide column to increase connection surface with the crossbeam to decrease vibration during cutting (1,600mm)
- X/Y axes with high torque roller linear guideways, Z axis with high rigidity boxway guideways

Standard Configuration

- Belt drive spindle BT50/SK50 6000 rpm, 17/42 kW, 183/400Nm (Siemens / Heidenhain)
- Belt drive spindle BT50/SK50 6000 rpm, 15/20.3 kW, 143/259Nm (Fanuc)
- Two screw type and one chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet





3X

V3320 · V4020

Double Column Machining Center

Features

- Gantry-type structural design
- The worktable adopts ball screw drive and sealed linear scale
- The base is make of one-piece cast-iron
- Extra wide column to increase connection surface with the crossbeam to decrease vibration during cutting (2,000mm)
- X/Y/Z axes with high rigidity roller linear guideways

Standard Configuration

- Belt drive spindle BT50/SK50 6000 rpm, 22/60 kW, 172/380Nm (Siemens & Heidenhain)
- Belt drive spindle BT50/SK50 6000 rpm, 22/45 kW, 140/286Nm (Fanuc)
- Roller type linear guideways on all axis
- Two screw type and one chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet

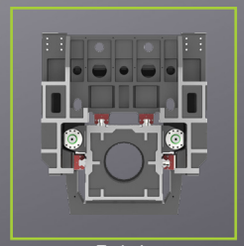
3X

V4028

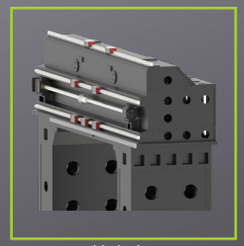
Double Column Machining Center

Features

- Gantry-type structural design
- The worktable adopts ball screw drive and sealed linear scale
- The base is make of one-piece cast-iron
- Extra wide column to increase connection surface with the crossbeam to decrease vibration during cutting (2,800mm)
- X/Y/Z axes with high rigidity roller linear guideways, X-axis 3pcs, Y-axis 3pcs, Z-axis 4pcs
- Z-axis dual drive system



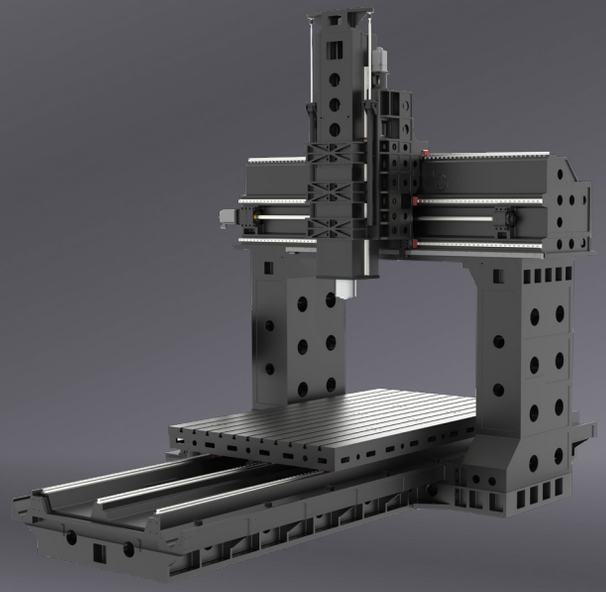
Z-Axis
4 linear guideway



Y-Axis
3 linear guideway

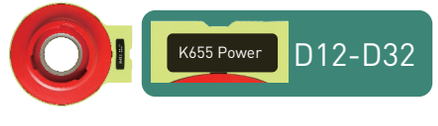
Standard Configuration

- Belt drive spindle BT50/SK50 6000 rpm, 22/60 kW, 172/380Nm (Siemens / Heidenhain)
- Belt drive spindle BT50/SK50 6000 rpm, 22/45 kW, 140/286Nm (Fanuc)
- Roller type linear guideways on all axis
- Two screw type and one chain type chip conveyor
- Spindle oil cooler
- Air-condition electrical cabinet



SHRINK FIT MACHINE

QUICK-CHANGE COIL
SCAN CODE RECOGNITION



BBT40 / BT40

SK40 / CAT40

HSK A63 / HSK A100

Ultrasonic-assisted cutting with VibroCut ultrasonic

More precision, less wear - for new process potentials

When ultrasound is applied to a machining process, high-frequency vibrations in the micrometer range (typically at 20 kHz to 100 kHz) are generated. These have several positive effects on the tool cutting edge and the entire machining process:

Ultrasonic Assistance

The vibrations modify the process kinematics and tribological conditions in the cutting zone. This minimizes friction and reduces process forces.

Improved Material Removal

High-frequency vibrations enable more efficient material removal. The cutting edge of the drill penetrates the material intermittently, making the cutting process faster and more precise.

Lower Cutting Forces

The ultrasonic vibrations reduce the cutting forces, which puts less stress on both the tool and the workpiece.

This is particularly advantageous when machining hard or brittle materials as well as materials that are difficult to almost impossible to machine, such as monel, titanium or nickel-based alloys. Feedrates can also be significantly increased for softer materials such as copper and aluminum.

Reduced Friction & Longer Tool Life

The lower friction between the tool cutting edge and the workpiece leads to reduced heat generation and less tool wear. Optimized chip removal also increases process reliability.

Higher Precision & Accuracy

The reduced cutting forces improve precision in drilling and deep-hole drilling, minimizing tool deflection – a key advantage for demanding drilling applications.

Advantages of ultrasonic-assisted machining

Increased efficiency
Faster processing times and optimized processes

Higher precision
Precise machining results with reduced deviation

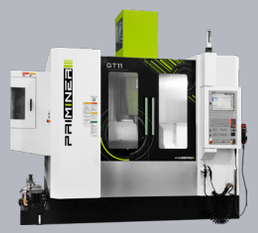
Cost-Effectiveness
Lower tool costs and longer tool life

Variety of materials
Ideal for hard, brittle, or difficult-to-machine materials

PRIMINER

Ultrasonic Series


GT7


GT11


GT16

GT18


C500-5X


U500-5X


U630-5X/U800-5X

VIBROCUT

Economic Benefits

Thanks to reduced tool costs, extended tool life, and shorter machining times, VibroCut ultrasonic offers significant savings potential – especially in precision and high-quality applications.

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.

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"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."

Benjamin Kaehlcke und Jack Chen
CEOs
Priminer Machine Tools

https://www.priminer.de

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