

MILLING

TALURUS GEMINI



WALDRICH COBURG

TALURLIS GENIUM

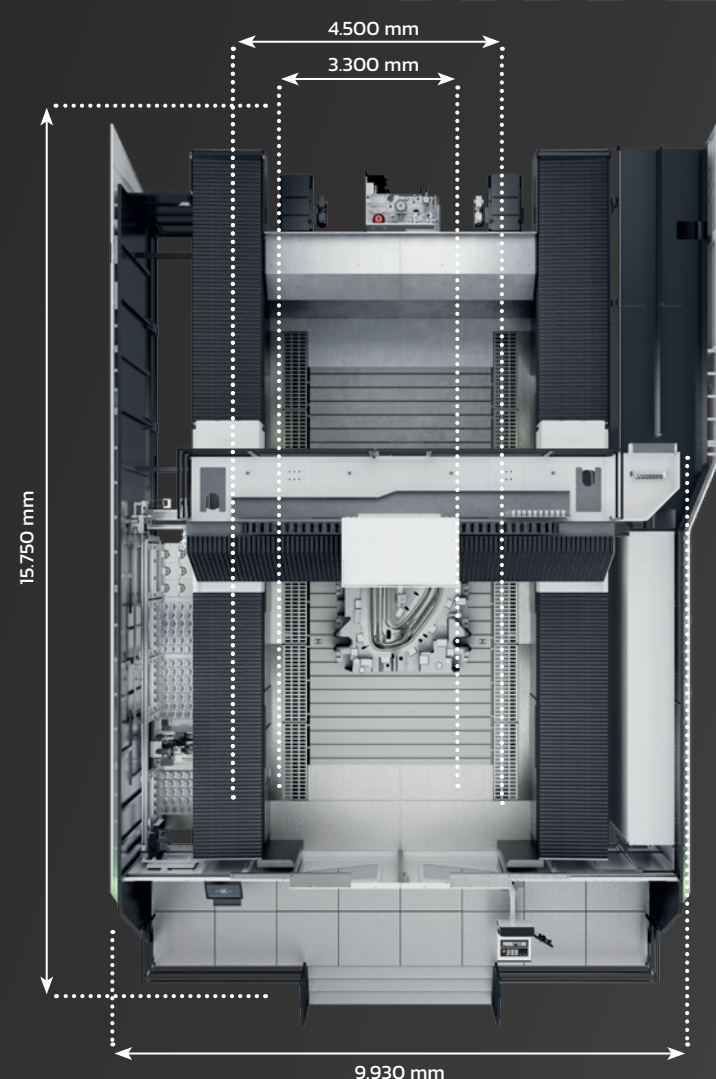
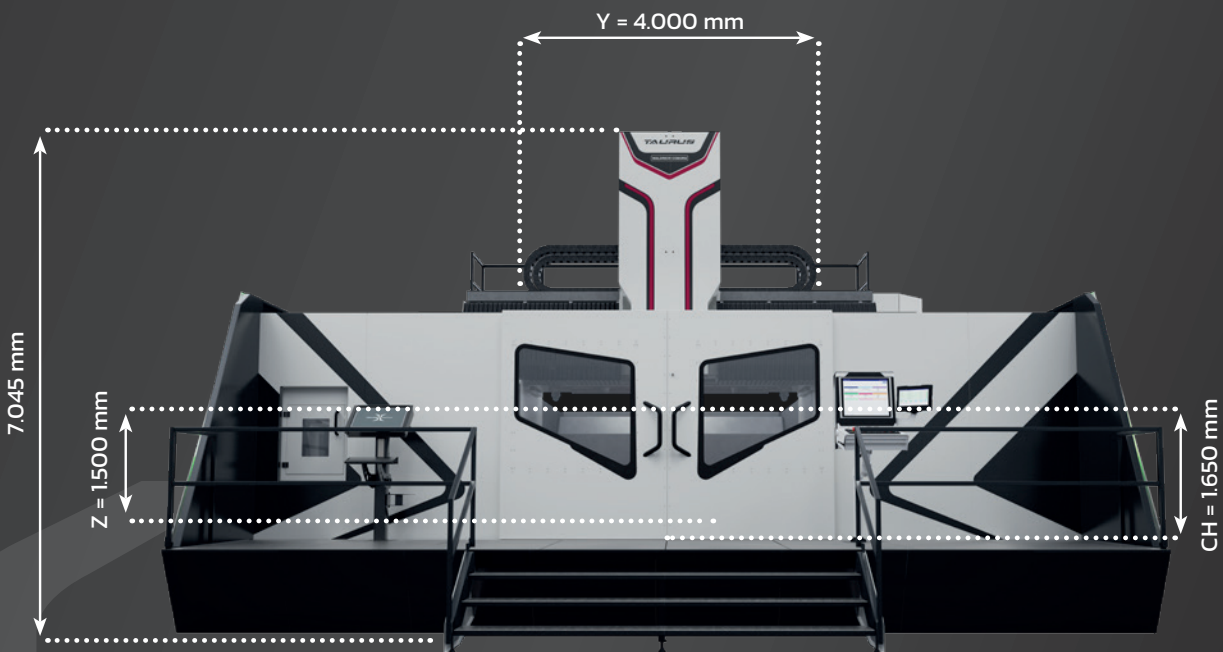
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STABILITY – ACCURACY – VELOCITY

The TAURUS Gemini is the most flexible solution for economical and sustainable production, which is currently available on the market.

It combines the enormous stability of a heavy roughing machine with the high dynamics of a finishing machine, paired with the accuracy of a WALDRICH COBURG.

For you, this is the most economical option for investing in the future of your production.



TECHNICAL DATA TAURUS 30 GEMINI

Travels	X-Axis 4.300 mm / Option 7.200 mm Y-Axis 4.000 mm Z-Axis 1.500 mm
Max. feed	40 m/min in X / Y / Z
Rapid	40 m/min in X / Y / Z
Acceleration	3 m/s² in X / Y / Z
Table	3.300 mm x 4.500 mm (7.250 mm)
Table load	5.000 kg/m²
Option turning table	Diameter 3.300 mm; Load 12.000 kg, 120 min ⁻¹
Main drive	6.000 min ⁻¹ ; 45 / 63 KW 1.250 Nm / 1.500 Nm (S1 / S6)
Motor spindle	20.000 min ⁻¹ ; 30 kW; 70 Nm
Tool changer	60 / 120 places
Dimensions of tools	Ø 135 mm (Ø260 mm*), length 600 mm
Tool weight	20 kg / 30 kg in single change
Machine weight	~ 190 t

* For tool diameters > 135 mm, the number of tool positions is reduced

MILLING – TURNING – GRINDING

The TAURUS Gemini is always used when large workpieces have to be machined with high precision or when the process requires special machine stability.

This is also the case in the aerospace and die and mold making industries.

You can perform all necessary operations with just one machine: milling, turning* and grinding*.

For extremely precise machining, we offer our accuracy package** which is exactly the right solution.



*only possible with integrated turning table
**optional

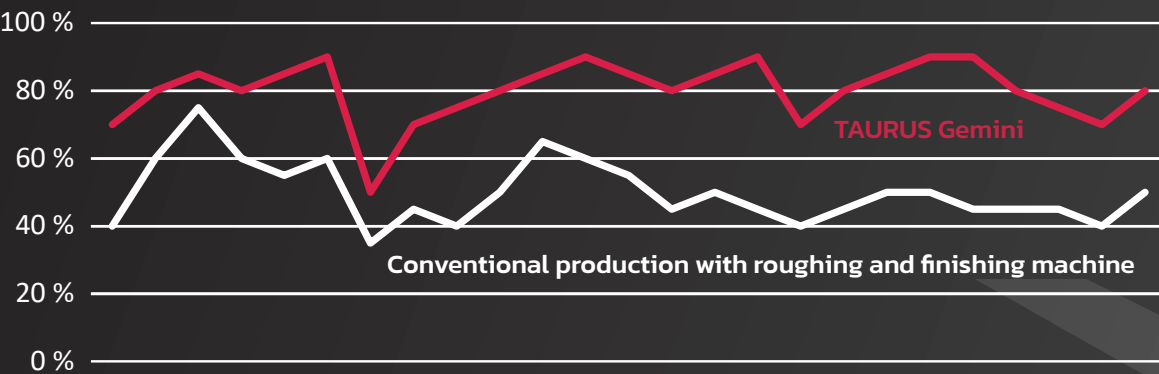
ROUGHING – LEVELING – FINISHING

With the TAURUS Gemini you invest in a machine concept that flexibly combines several machine types in just one system.

Roughing operations are possible with a power of up to 63 kW at up to 1,500 Nm. For finishing operations, spindle speeds of up to 20,000 rpm and high machine dynamics are available.

All this without compromising on stability, accuracy and availability.

HIGHER CAPACITY UTILIZATION DUE TO FLEXIBLE APPLICATION POSSIBILITIES



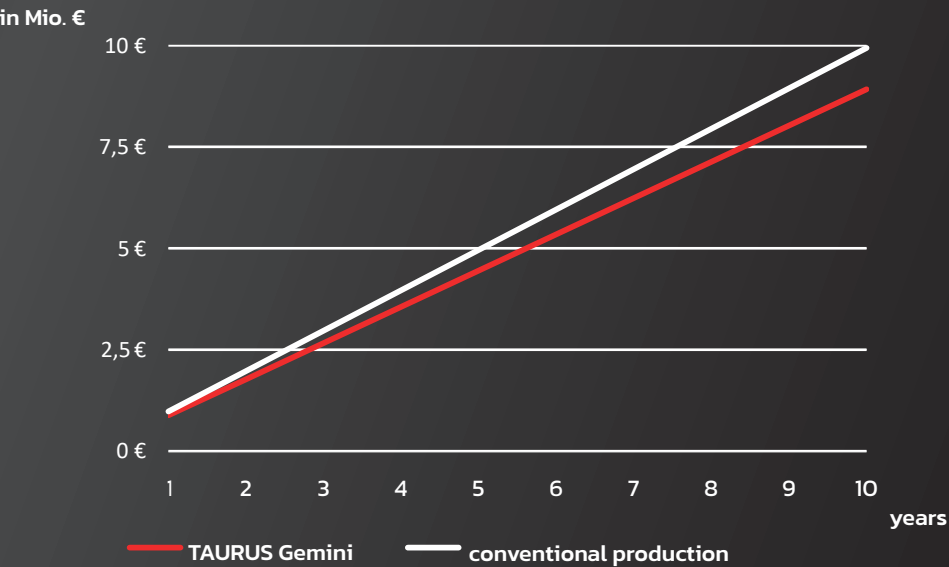
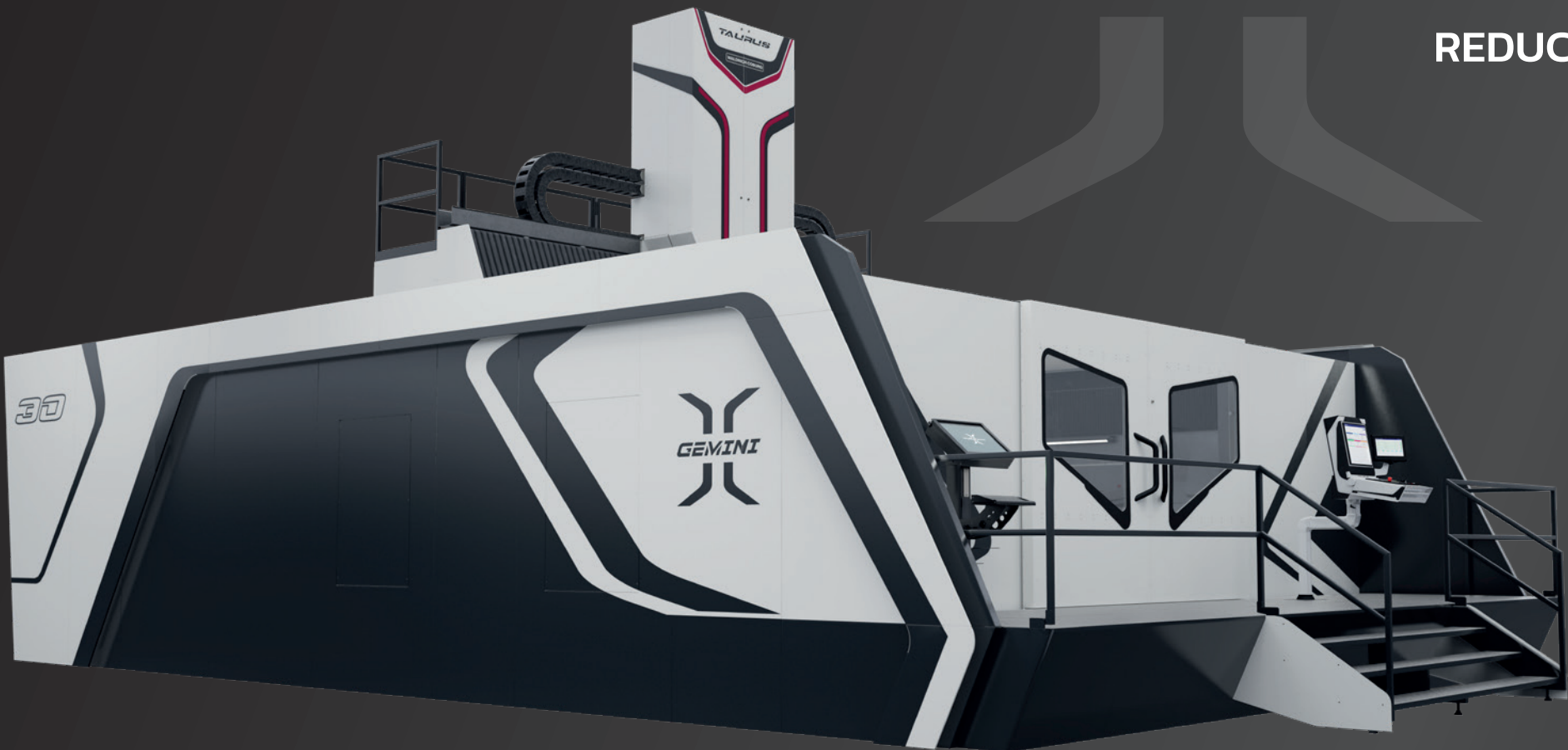
COMPACT – COST EFFICIENT – LOW MAINTENANCE

The compact and flexibly versatile machine concept not only saves expensive floor space, but also achieves a higher capacity utilization of your machinery.

By using our hydrostatic guides, you save tooling costs, among other things.

TAURUS GEMINI

REDUCTION OF TOOL COSTS UP TO 15%



*Save up to 15% tool wear costs in roughing and up to 10% on finishing operations.

Operator area with
control panel and
tool storage/
tool management

Workpiece on floor plate the
plate field

Tool changer

Crossrail

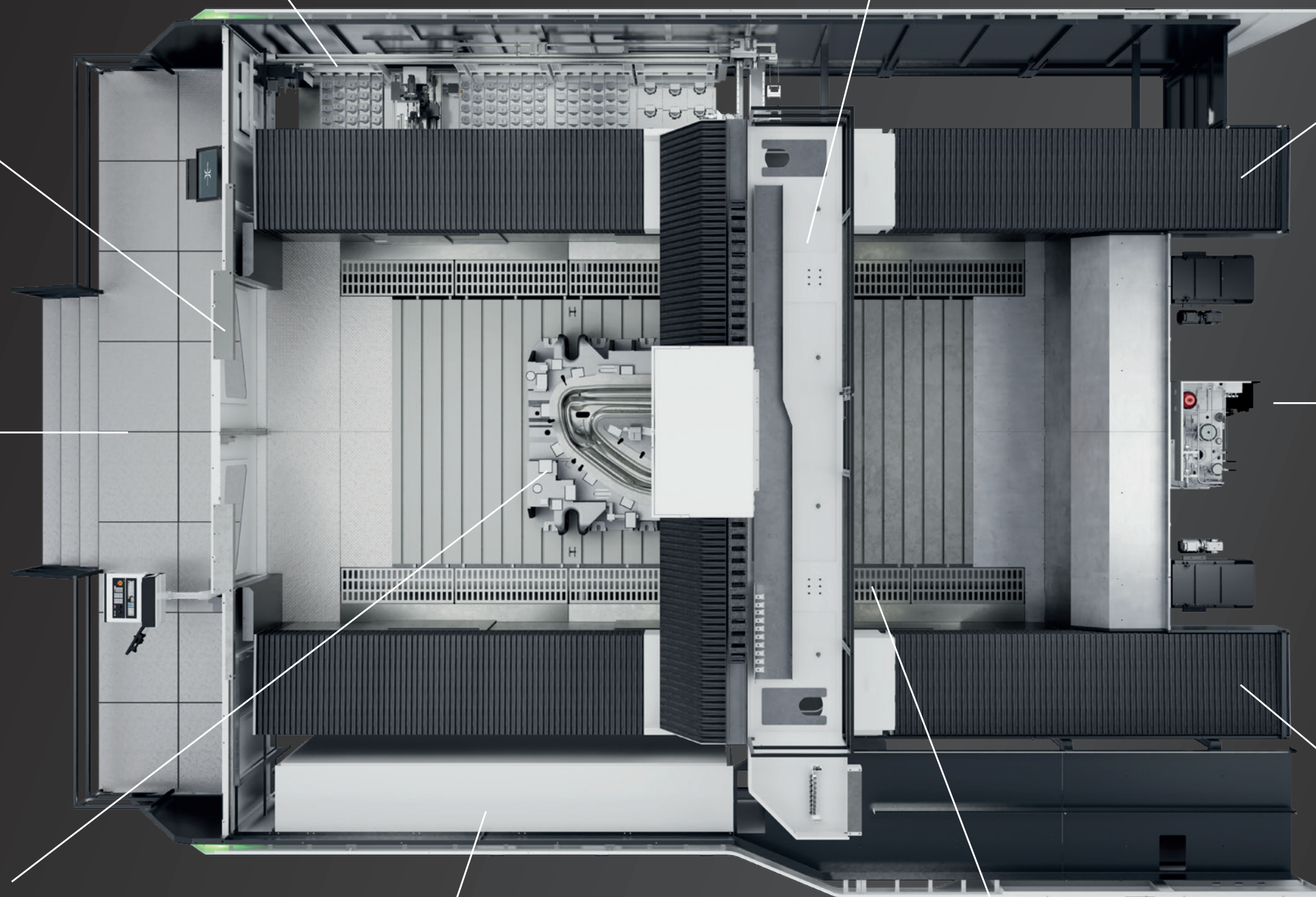
Guide X-axis

Hydraulic unit

Guide X-axis

Electrical cabinets

Chip conveyor



TOOL CHANGER

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INNOVATIVE – COMPACT – MODULAR

TECHNICAL DATA

Tool places	60 / 120
Max. tool diameter	135 mm / 260 mm*
Max. tool length	600 mm**
Max. tool weight	20 kg / 30 kg

- * for tool diameters > 135 mm the number of tool stations is reduced
** maximum tool length is available at each location

The tool changer is specially adapted to your requirements. It is not only extremely compact, but also expandable due to its modular design and can be used flexibly.

Due to its special arrangement, there is no contamination of the tool cones by chips or cooling lubricant.

G150

Universal spindle unit Offset

Technical Data:

- 40 kW (S6)
- 1.500 Nm (S6)
- 5.000 min⁻¹



H07L

Horizontal spindle unit

Technical Data:

- 25 kW (S6)
- 700 Nm (S6)
- 2.500 min⁻¹

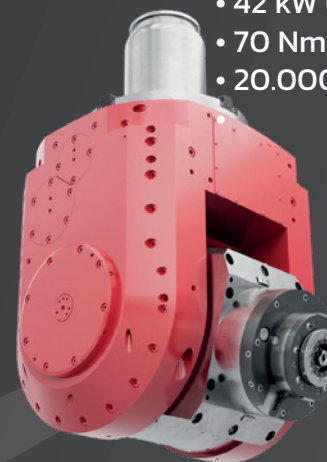


G-HF07

Motor spindle unit

Technical Data:

- 42 kW (S1)
- 70 Nm (S1)
- 20.000 min⁻¹

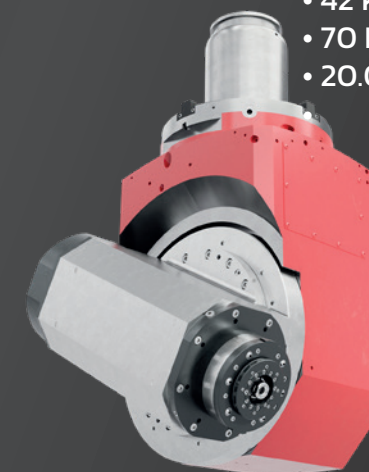


UO-HF07

Motor spindle unit

Technical Data:

- 42 kW (S1)
- 70 Nm (S1)
- 20.000 min⁻¹



V15S

Vertical spindle unit

Technical Data:

- 63 kW (S6)
- 1.500 Nm (S6)
- 6.000 min⁻¹

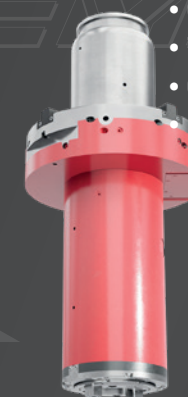


V15L

Vertical spindle unit

Technical Data:

- 63 kW (S6)
- 1.500 Nm (S6)
- 6.000 min⁻¹

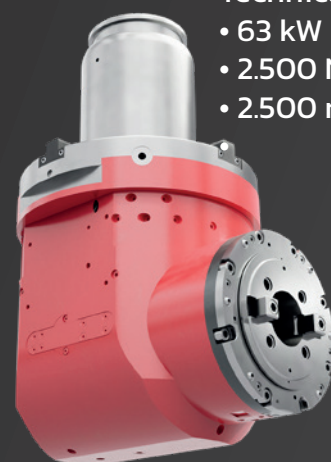


H25H

Horizontal spindle unit

Technical Data:

- 63 kW (S6)
- 2.500 Nm (S6)
- 2.500 min⁻¹

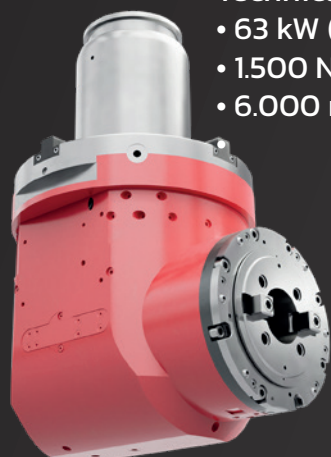


H15S

Horizontal spindle unit

Technical Data:

- 63 kW (S6)
- 1.500 Nm (S6)
- 6.000 min⁻¹



V25H

Vertical spindle unit

Technical Data:

- 63 kW (S6)
- 2.500 Nm (S6)
- 2.500 min⁻¹

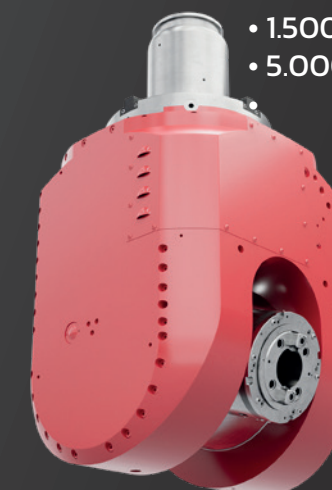


G15U

Universal spindle unit

Technical Data:

- 63 kW (S6)
- 1.500 Nm (S6)
- 5.000 min⁻¹



SPINDLE UNITS

FAST – AUTOMATIC – COMPACT

With 6 spindle unit storage spaces, the TAURUS Gemini is perfectly equipped for your machining tasks. In combination with up to 120 tools, it covers all your needs.

Compact and protected from contamination, the spindle units can be changed fully automatically within a very short time.

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SPINDLE UNIT CHANGER

PROVEN – WEAR FREE – MINIMUM VIBRATION

The worldwide proven hydrostatic guideways from WALDRICH COBURG are also used in the dynamic concept of the TAURUS Gemini.

Almost free from friction and wear, with the best damping characteristics and enormous rigidity, you achieve the best machining results over the entire life of the machine.

Our unique guideway system is known worldwide for its durability and stability.

EFFICIENT – SAFE – SIMPLE

Your processes can be designed efficiently, safely and simply.
The TAURUS Gemini is ideally equipped for this.

- Workspace monitoring with cameras
- 3D workpiece measuring probe
- Tool identification and monitoring
- Tool taper cleaning
- Adaptive feed control
- Machine airbag and condition monitoring
- Spindle unit change with automatic identification
- Pallet changer
- AGV (automatic guided vehicle)
- InPro

FUTURE ORIENTED TECHNOLOGY

You have the choice between the Siemens 840 D sl or Heidenhain TNC 640 controls, giving you a future oriented setup.

With the UMATI interface you can connect your machine to many other systems. Mindsphere from Siemens, Connected Machining from Heidenhain or our InPro help you improve your processes and manage your machinery.

The TAURUS Gemini handles all common standards of modern manufacturing.



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