

#4Wins



4-AXIS UNIVERSAL MACHINING CENTERS



This is who we are
GROB-WERKE



Technology at its best
**STEP INTO A
GREEN FUTURE
WITH US**

At GROB, we strive for continuous progress and improvement. Not only do we strive to develop outstanding solutions and products for our customers, but we also seek to make a contribution to our environment and future generations. This is firmly anchored in our corporate philosophy and lived every day.

We therefore utilize photovoltaics and geothermal energy in our locations and support a wide variety of social projects. But we also place great emphasis on SUSTAINABILITY in our internal departments. Our products are based on the highest energy efficiency and regenerative drive systems. We integrate our supplier network in reducing the carbon footprint.

Excellence in sustainable technology



OUR PRODUCT RANGE

#MachiningTechnology #UniversalMachiningCenters
#AssemblyPlants #Electromobility
#Automation #AdditiveManufacturing #Digitalization
#NewAndQualityCheckedUsedMachines #Service



RESEARCH &
DEVELOPMENT



ASSEMBLY



ENGINEERING



COMMISSIONING



PRODUCTION



TECHNICAL
APPLICATION CENTERS

The collage consists of 18 individual images arranged in a 3x6 grid, highlighting various aspects of GROB's industrial manufacturing:

- Top Row:**
 - Close-up of a large industrial machine with a complex metal part being processed.
 - A male worker in a blue shirt and gloves holding a precision-machined metal component.
 - A wide shot of a modern factory interior with a large white structure labeled "TAZ TECHNOLOGIE- UND ANWENDUNGSZENTRUM".
 - A worker operating a large blue and white industrial machine labeled "G550".
- Second Row:**
 - A long perspective view of a factory floor with multiple industrial machines and robotic arms.
 - A close-up of a precision-machined metal part with a blue-tinted background.
 - Three people (two men and one woman) standing in front of a machine labeled "GROB G550 access".
 - A worker operating a machine with a yellow robotic arm.
 - A worker inspecting a large, complex metal part.
 - A scene from a trade fair or exhibition with people and a sign for "GMZ GEBRAUCHT-MASCHINENZENTRUM".
- Third Row:**
 - A close-up of a complex metal part being machined.
 - A worker in a blue shirt handling a large, dark, circular component.
 - A close-up of a machine's internal components, showing a series of red-tipped tools.
 - A perspective view of a factory floor with several industrial machines.
 - A close-up of a precision-machined metal part.
 - A hand holding a smartphone displaying a digital interface with the text "GROB Line" and various technical data.
- Bottom Row:**
 - A worker in a blue shirt wearing a headset, smiling while talking on a phone.
 - A worker in a blue shirt holding a large, circular, red-tinted component.
 - A worker operating a machine with a yellow robotic arm.
 - A perspective view of a factory floor with several industrial machines.

4-axis universal machining centers by GROB

THE RIGHT CONCEPT FOR YOUR INDUSTRY

4-AXIS UNIVERSAL MACHINING CENTERS

Machine concept

Machine components

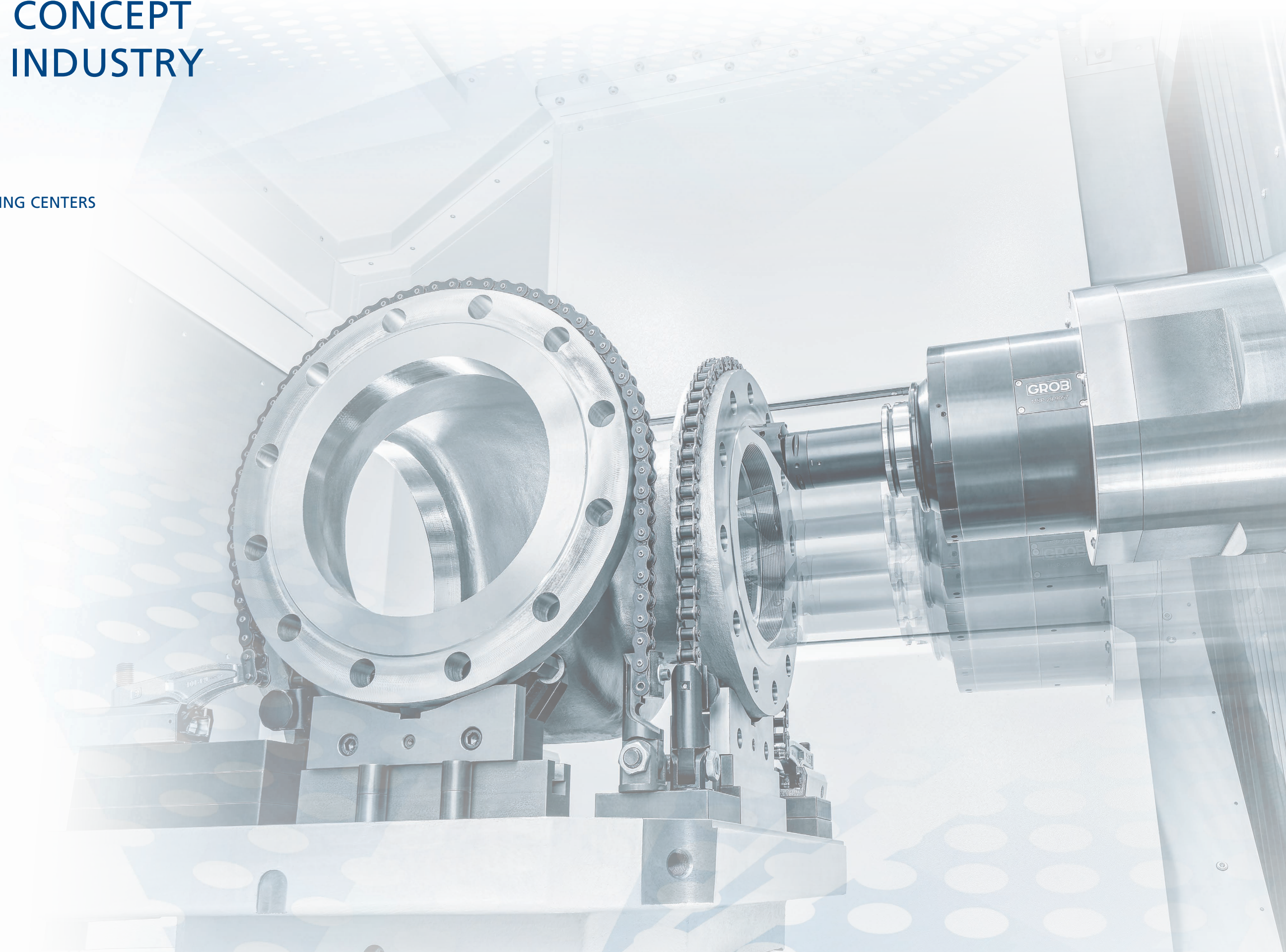
Technical data

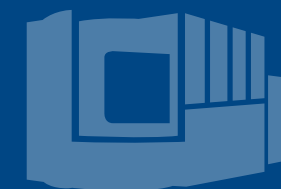
TECHNOLOGY OPTIONS

AUTOMATION SOLUTIONS

DIGITALIZATION

SERVICE





*A machine series
tailored to your needs*

4-AXIS UNIVERSAL MACHINING CENTERS BY GROB

The 4-axis universal machining centers G440, G640 and G840 offer our customers a heavy-duty machine series, which at the same time guarantees robust, optimal, and dynamic processes.

No matter whether aerospace, mechanical engineering, die and mold industries, automotive or energy technology – our 4-axis universal machining centers cover a convincingly broad range of possible applications.

- ✦ High productivity and process reliability
- ✦ Optimized availability and durability
- ✦ Excellent maintainability
- ✦ Extensive configuration possibilities
- ✦ Designed for automation solutions



OUR PORTFOLIO

#G440 #G640 #G840

Highly resilient and dynamic

OPTIMALLY DESIGNED AXIS AND DRIVE CONCEPT

High productivity, reliable components, and unique durability characterize the 4-axis series. Thanks to extensive configuration options, our machining centers can be perfectly matched to the requirements of your production.

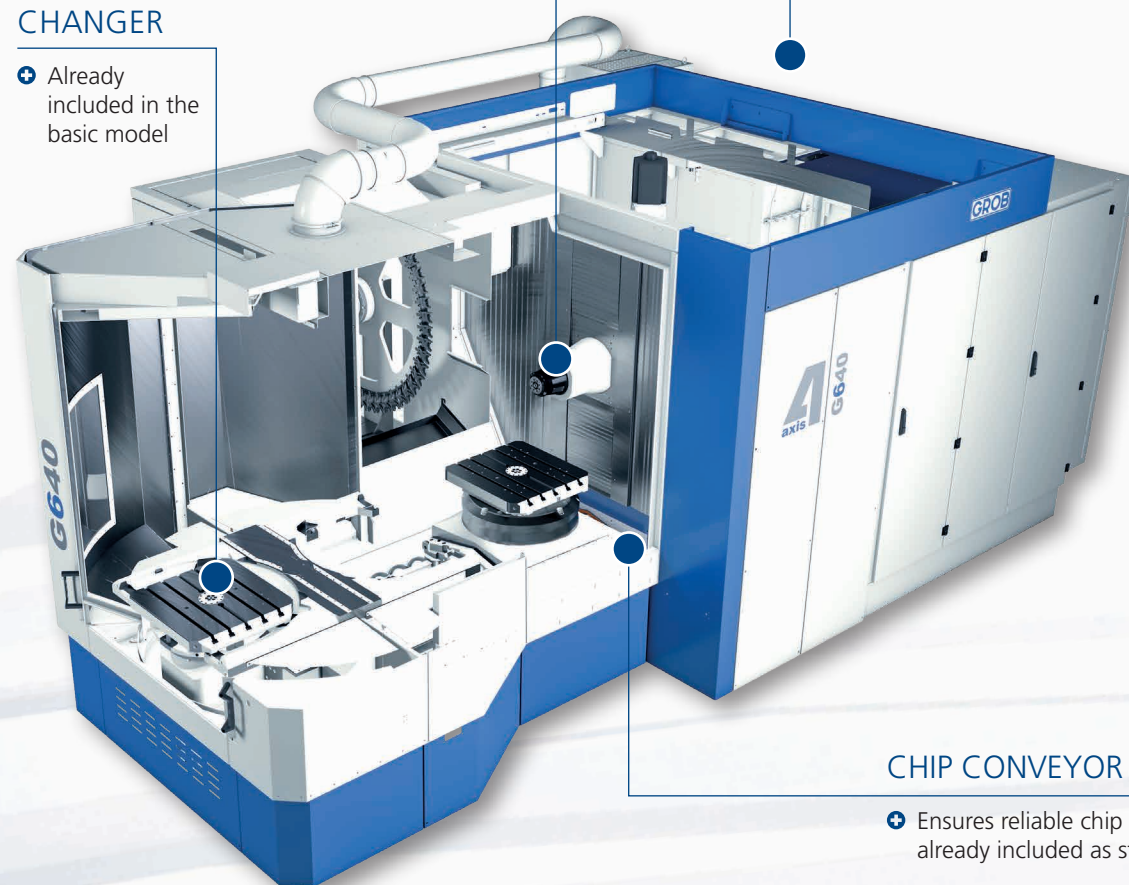
Depending on the equipment, the drive concept is based on one ball screw drive arranged in the mass center or two symmetrically arranged ball screw drives in the Y-axis. The torque motor in the B-axis, which is already installed in the standard model, also enables a fast positioning movement with maximum precision.

WIDE SELECTION OF MOTORIZED SPINDLES

- ⊕ Different spindle types are available depending on the machine type

PALLET CHANGER

- ⊕ Already included in the basic model



CHIP CONVEYOR

- ⊕ Ensures reliable chip management; already included as standard

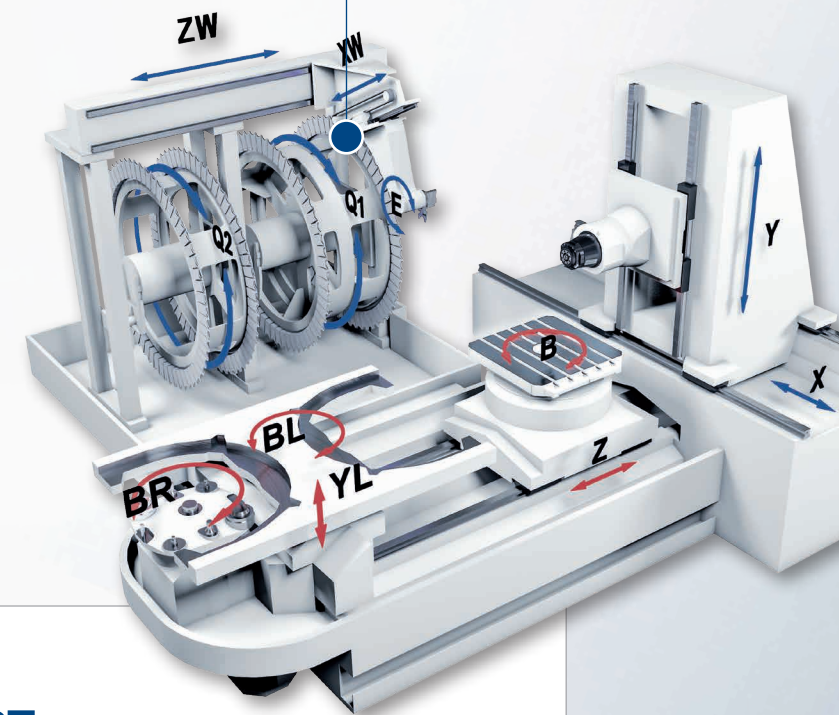
Illustration of G640 may contain options

DISK-TYPE TOOL MAGAZINE

- ⊕ Individually configurable as desired

EFFICIENT MACHINE COOLING

- ⊕ Available in different packages and can be extended with various additional options



UNIQUE AXIS CONCEPT

- ⊕ Topology optimization for a perfect combination between stability, cushioning, and dynamics
- ⊕ A diverse range of options in a modular design for customized machines

”

Machine components

GROB MOTORIZED SPINDLES



GROB SPINDLE DIAGNOSTICS (GSD) – OPTION

GROB Spindle Diagnostics is a system that automatically monitors both the condition of the motorized spindle (condition monitoring) and the vibrations that occur during machining.

- System for automatic condition monitoring of the motorized spindle
- Vibrations that occur are monitored during machining and switched off if they exceed limits
- Service life of the motorized spindle extended through identification of critical operating states
- Perfect process optimization is possible
- Machine downtimes avoided through scheduled maintenance

GROB CHIP-IN-SPINDLE DETECTION SYSTEM (SiS) – OPTION

Detection of deformations within a few milliseconds

- Inspection and detection of chip and foreign body errors between flat and tapered surfaces
- Automatic interruption if a clamping error is detected
- System independently takes fault clearance measures

SPIKE® PROCESS FORCE MONITORING SYSTEM* – OPTION

Monitoring of bending moments and pull-in forces. Based on these values, the system detects and monitors:

- Tool wear and incipient tool breakage
- Vibrations and rattling
- Tool change planning based on system data
- Reduction of tool damage and optimal utilization of the tool life
- Continuous monitoring during the machining process

*The GROB chip-in-spindle detection system (SiS) is always included in this option

Spindle types – Availability at a glance!

SPINDLE TYPE ◀ MACHINE										
Tool interface ⁽¹⁾ for hollow taper shanks acc. to ISO 12164-1/ taper shanks ⁽²⁾ acc. to DIN ISO 7388	HSK-A63				HSK-A100	HSK-A100/ SK50 ⁽³⁾		HSK-A100		
Spindle type	5	13	9/25		3	HTS F3/HTS F5	7/37	HTS F4	29	8 F2
Speed n _{max} [rpm]	12,000	30,000	16,000		10,000	8,000	9,000	8,000	13,000	7,200 6,000
Max. spindle torque at 100 %/40 % duty cycle [Nm]	63.7/ 82.8	47.7/ 63.2	159/ 206		262/ 345	699/ 900	470/ 575	1,107/ 1,404	226/ 265	1,273/ 1,666 2,000 ⁽⁴⁾ / 2,400
Spindle bearing Ø at front bearing [mm]	70	65	80		100	120	110	120	100	120 120
Max. drive power at 100 %/40 % duty cycle [kW]	40/ 52	40/ 53	25/ 32		20/ 26	52/ 66	54/ 65	80/ 100	64/ 75	80/ 100 63/ 78
G440	•	◦	◦		◦	—	—	—	◦	— —
G640	•	◦	◦		◦	◦*	◦	◦*	◦	◦ —
G840	—	—	—		•	◦	◦	◦	◦	◦ ◦

⁽¹⁾ Optional tool interfaces on request
⁽²⁾ Spindles with BIG PLUS® interface

⁽³⁾ DIN ISO 7388 form A/U/J (45°)
⁽⁴⁾ Gear spindle

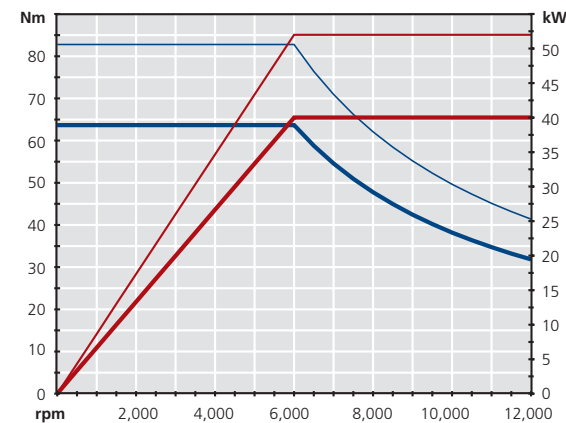
* Only available in conjunction with the optional work area expansion
• Standard version with HSK application ◦ Optional — Not available
Subject to technical changes without prior notice

Torque – rotational speed – output

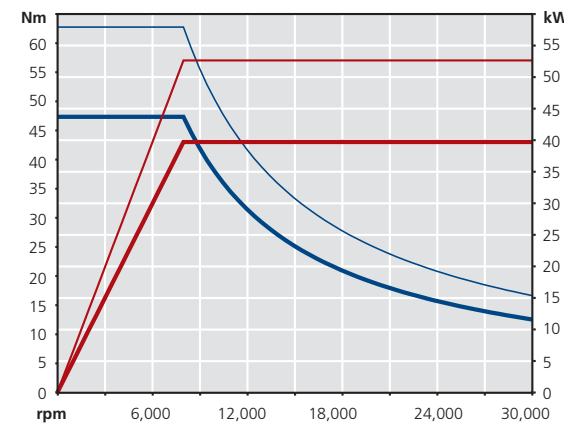
MOTORIZED SPINDLE VERSIONS

TYPE 5:

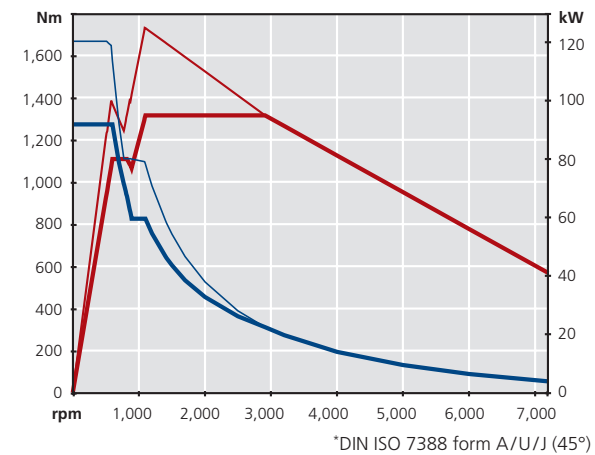
HSK-A63 ▶ Motorized spindle 83 Nm, 12,000 rpm

**TYPE 13:**

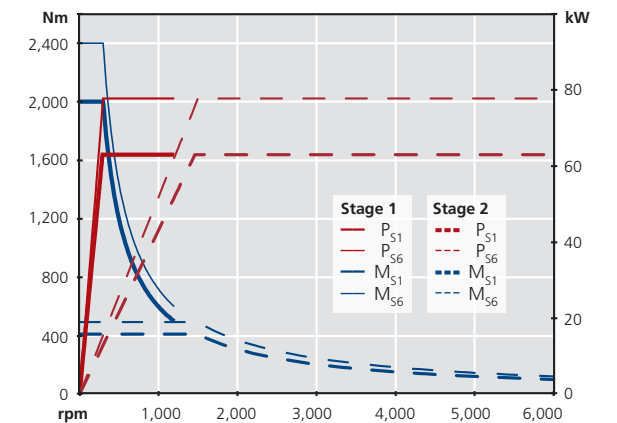
HSK-A63 ▶ Motorized spindle 63 Nm, 30,000 rpm

**TYPE 8:**

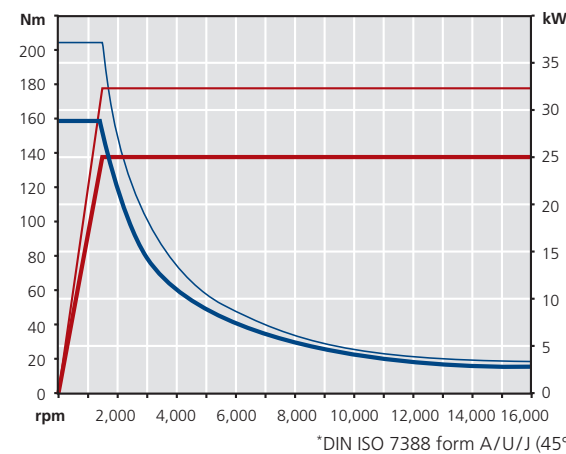
HSK-A100 ▶ Motorized spindle 1,666 Nm, 7,200 rpm

**TYPE F2:**

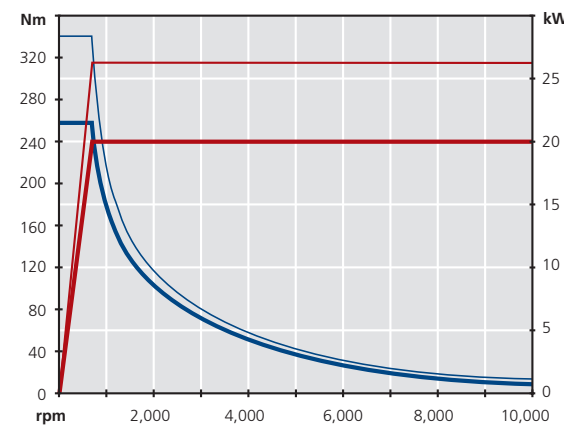
HSK-A100 ▶ Gear spindle 2,400 Nm, 6,000 rpm

**TYPE 9/25:**

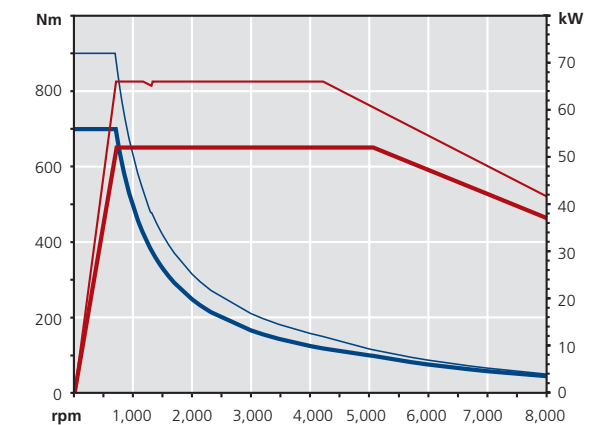
HSK-A63 ▶ Motorized spindle 206 Nm, 16,000 rpm

**TYPE 3:**

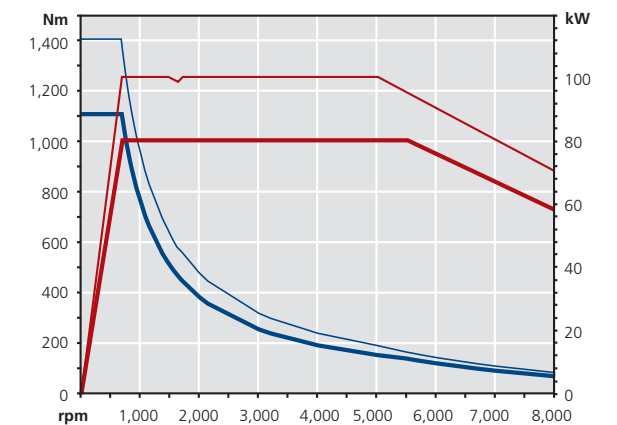
HSK-A100 ▶ Motorized spindle 345 Nm, 10,000 rpm

**TYPE HTS F3/HTS F5:**

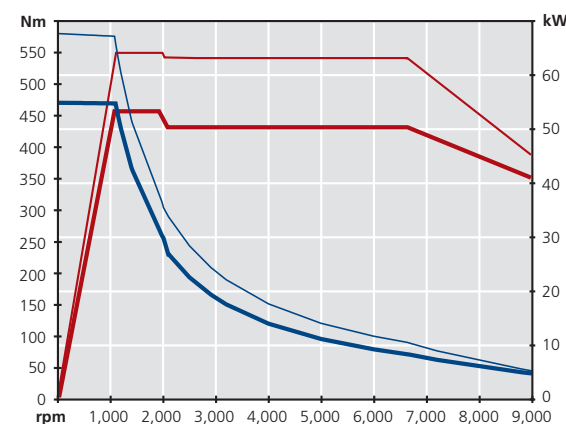
HSK-A100/SK50 ▶ Main spindle 900 Nm, 8,000 rpm

**TYPE HTS F4:**

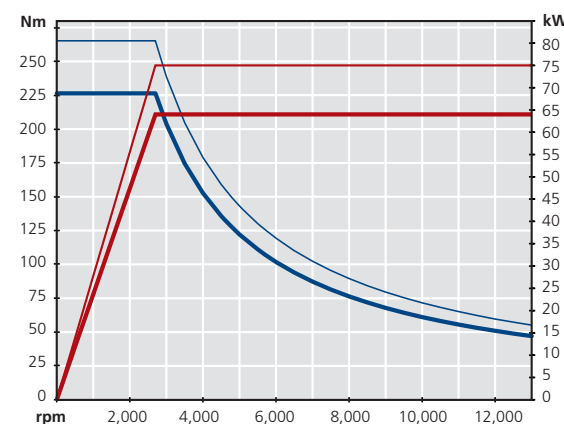
HSK-A100 ▶ Main spindle 1,404 Nm, 8,000 rpm

**TYPE 7/37:**

HSK-A100/SK50 ▶ Motorized spindle 575 Nm, 9,000 rpm

**TYPE 29:**

HSK-A100 ▶ Motorized spindle 265 Nm, 13,000 rpm



— Power S1: 100 % duty cycle — Power S6: 40 % duty cycle
— Torque S1: 100 % duty cycle — Torque S6: 40 % duty cycle

Versatile combinations

TOOL MAGAZINES
BY GROB

The 4-axis universal machining centers offer versatile possibilities in the area of the tool magazine. Depending on the machine type, the tool magazine can be configured according to your needs and desires. It is very easy to extend or replace the magazines in your machine even after delivery via "Plug&Play".

You can also benefit from the use of a highly dynamic tool changer arm or a pick-up variant.

SINGLE-DISK TO
SIX-DISK MAGAZINES

- ➕ Vertical, serial magazine disks for the G440, G640, and G840
- ➕ Fast tool change with a highly dynamic tool changer arm or pick-up variant

TOWER MAGAZINE

- ➕ Magazine disks arranged on top of each other for the G440, G640, and G840
- ➕ Loading during the machining operation
- ➕ Parallel setup of up to five tools

G440 ▶ BASIC MACHINE ◀▶ DISK-TYPE TOOL MAGAZINE									
Disk-type tool magazine	Single~	Compact double~		Compact three~		Four~		Six~	Tower~
Tool interface ⁽¹⁾ for hollow taper shanks acc. to ISO 12164-1/ taper shanks ⁽²⁾ acc. to DIN ISO 7388	HSK-A63	HSK-A63	HSK-A100	HSK-A63	HSK-A100	HSK-A63	HSK-A100/ SK50 ⁽³⁾	HSK-A100	HSK-A100
Number of tool pockets	50	117 (107) ⁽⁴⁾	57 (52) ⁽⁴⁾	177 (167) ⁽⁴⁾	87 (82) ⁽⁴⁾	237 (227) ⁽⁴⁾	117 (112) ⁽⁴⁾	172 (167) ⁽⁴⁾	238/ 476
Max. tool length [mm] ⁽⁵⁾	500	500 (530) ⁽⁴⁾	500 (530) ⁽⁴⁾	280 (530) ⁽⁴⁾	260 (530) ⁽⁴⁾	500 (530) ⁽⁴⁾	500 (530) ^(3, 4)	260 (530) ⁽⁴⁾	500 (530) ⁽⁴⁾
Max. tool diameter [mm] ▶ No diameter restrictions for adjacent pockets	90	72	120	72	120	72	120	120	152/ 120
▶ Diameter restrictions for adjacent pockets	170	170	280	170	280	170	280	280	280
Max. tool weight [kg]	12	12	35	12	35	12	35	35	35
Max. torque around gripper groove [Nm]	12	12	40	12	40	12	40	40	40
Pick-up magazine	•	—	—	—	—	—	—	—	—
Tool changer arm	—	•	•	•	•	•	•	•	•

⁽¹⁾ Optional tool interfaces upon request

⁽²⁾ Spindles with BIG PLUS® interface

⁽³⁾ DIN ISO 7388 form A/U/J (45°) (number of tool pockets and the max. tool length differs for SK50)

⁽⁴⁾ Long tool only possible on first disk

⁽⁵⁾ Lengths in relation to HSK

Subject to technical changes without prior notice

Number of tool pockets

G440 / G640 / G840

G640 ▶ BASIC MACHINE ◀▶ DISK-TYPE TOOL MAGAZINE									
Disk-type tool magazine	Single~	Compact double~		Compact three~		Four~		Six~	Tower~
Tool interface ⁽¹⁾ for hollow taper shanks acc. to ISO 12164-1/ taper shanks ⁽²⁾ acc. to DIN ISO 7388	HSK-A63	HSK-A63	HSK-A100	HSK-A63	HSK-A100	HSK-A63	HSK-A100/ SK50 ⁽³⁾	HSK-A100	HSK-A100
Number of tool pockets	50	117 (107) ⁽⁴⁾	57 (52) ⁽⁴⁾	177 (167) ⁽⁴⁾	87 (82/77) ⁽⁴⁾	237 (227) ⁽⁴⁾	117 (112) ⁽⁴⁾	172 (167) ⁽⁴⁾	238 (476) ⁽⁴⁾
Max. tool length [mm] ⁽⁵⁾	500	500 (680) ⁽⁴⁾	500 (680) ⁽⁴⁾	280 (545) ⁽⁴⁾	260 (545/680) ⁽⁴⁾	500 (680) ⁽⁴⁾	500 (680) ^(3, 4)	260 (545/680) ⁽⁴⁾	500 (680) ⁽⁴⁾
Max. tool diameter [mm] ▶ No diameter restrictions for adjacent pockets	90	72	120	72	120	72	120	120	152/ 120
▶ Diameter restrictions for adjacent pockets	170	170	280	170	280	170	280	280	280
Max. tool weight [kg]	12	12	35	12	35	12	35	35	35
Max. torque around gripper groove [Nm]	12	12	40	12	40	12	40	40	40
Pick-up magazine	•	—	—	—	—	—	—	—	—
Tool changer arm	—	•	•	•	•	•	•	•	•

G840 ▶ BASIC MACHINE ◀▶ DISK-TYPE TOOL MAGAZINE					
Disk-type tool magazine	Compact double~	Compact three~	Four~	Six~	Tower~
Tool interface ⁽¹⁾ for hollow taper shanks acc. to ISO 12164-1/ taper shanks ⁽²⁾ acc. to DIN ISO 7388	HSK-A100	HSK-A100	HSK-A100/ SK50 ⁽³⁾	HSK-A100	HSK-A100
Number of tool pockets	57 (52) ⁽⁴⁾	87 (82/77) ⁽⁴⁾	117 (112) ⁽⁴⁾	172 (167) ⁽⁴⁾	238/476
Max. tool length [mm] ⁽⁵⁾	500 (830) ⁽⁴⁾	500 (545/830) ⁽⁴⁾	500 (830) ^(3, 4)	260 (545/830) ⁽⁴⁾	500 (830) ⁽⁴⁾
Max. tool diameter [mm] ▶ No diameter restrictions for adjacent pockets	120	120	120	120	152/ 120
▶ Diameter restrictions for adjacent pockets	280	280	280	280	280
Max. tool weight [kg]	35	35	35	35	35
Max. torque around gripper groove [Nm]	40	40	40	40	40
Pick-up magazine	—	—	—	—	—
Tool changer arm	•	•	•	•	•

⁽¹⁾ Optional tool interfaces upon request

⁽²⁾ Spindles with BIG PLUS® interface

⁽³⁾ DIN ISO 7388 form A/U/J (45°) (number of tool pockets and the max. tool length differs for SK50)

⁽⁴⁾ Long tool only possible on first disk

⁽⁵⁾ Lengths in relation to HSK

Subject to technical changes without prior notice

GROB⁴Pilot

YOUR POWERFUL MACHINE CONTROL PANEL

The innovative GROB⁴Pilot machine control panel offers the machine operator a convenient working environment on the machine through a multi-functional user interface. The entire production process – from the CAD model to the NC simulation – is now digitally mapped on the GROB⁴Pilot control system itself.

- Enhanced user comfort thanks to simplified and intuitive machine operation
- Access to the GROB-NET⁴Industry platform
- Expanded applications for increased efficiency
- Paperless production is possible

OPTIMIZED KEYBOARD

- For easy input



FULLY-AUTOMATED HOMING AT THE PUSH OF A BUTTON

- From any position – our universal machining centers as well as automated systems automatically move to the home position in several steps

AVAILABLE CNC CONTROL SYSTEM PROVIDERS FOR GROB ⁴ PILOT	
	SIEMENS SINUMERIK ONE
G440	•
G640	•
G840	•

FLEXIBLE DISPLAY LAYOUT

- Free division into up to three apps

24" MULTI-TOUCH DISPLAY

- For intuitive operation

2x POWERRIDE

- Convenient operation thanks to multifunctional assignment

3D-SPACEMOUSE® (OPTION)

- For controlling CAD applications

TRACKBALL

- For alternative screen use in addition to the multi-touch function

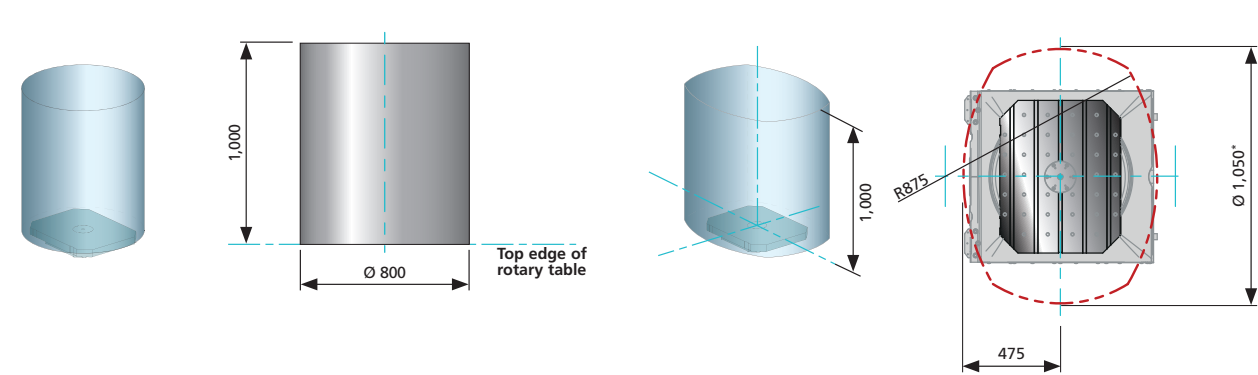


Example illustration

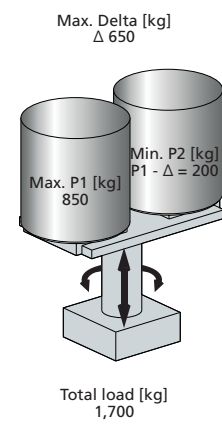
Maximum part size and loading specifications
footprint

G440

Maximum part size [mm]	
Standard	Option



Loading specifications	
Standard	

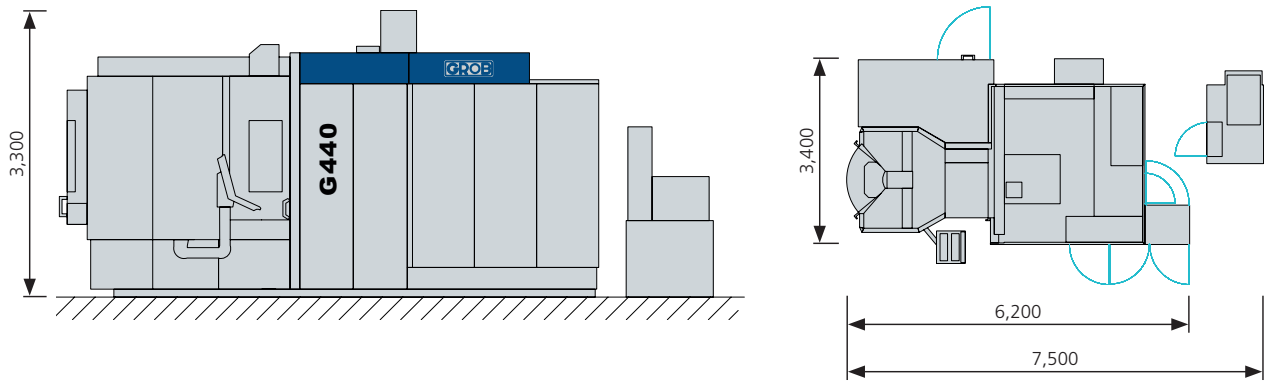


* Optionally extended interference diameter with flattened diameter

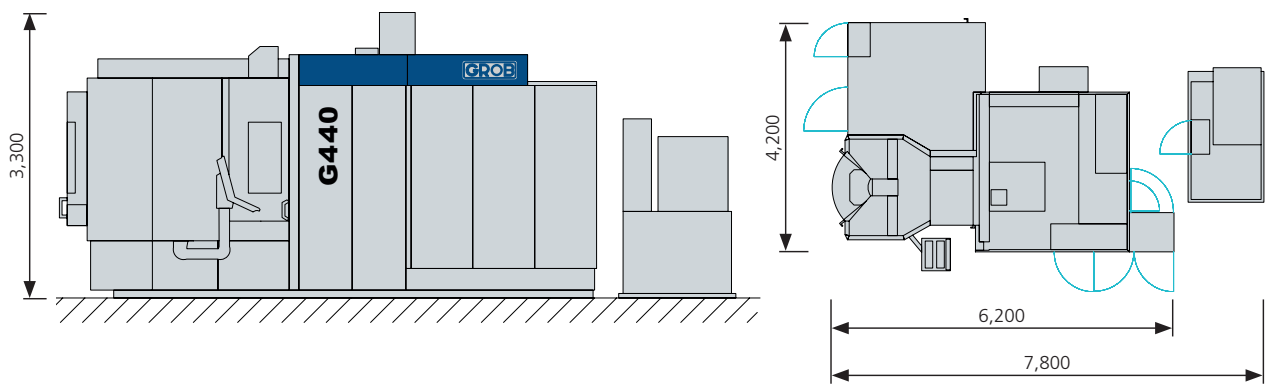
Illustrations may contain options
Subject to technical changes without prior notice

Side view / top view max. [mm]

Basic machine with compact magazine and basic cutting fluid system



Basic machine with large tool magazine and premium cutting fluid system



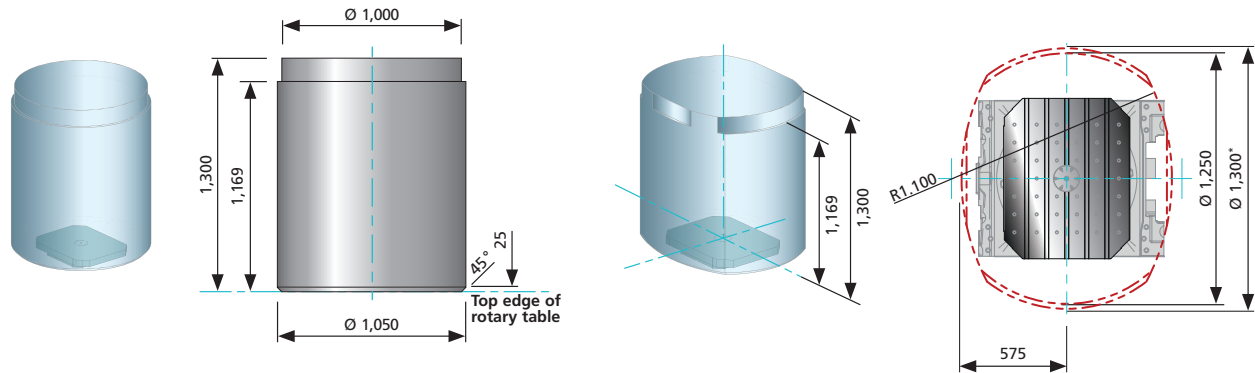
Dimension values [mm], not taking into account preventive maintenance and operating areas

Illustrations may contain options
Subject to technical changes without prior notice

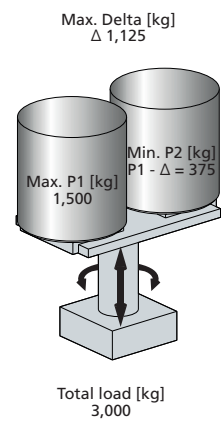
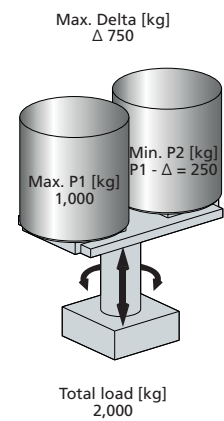
Maximum part size and loading specifications
footprint

G640

Maximum part size [mm]	
Standard	Option



Loading specifications	
Standard	Option

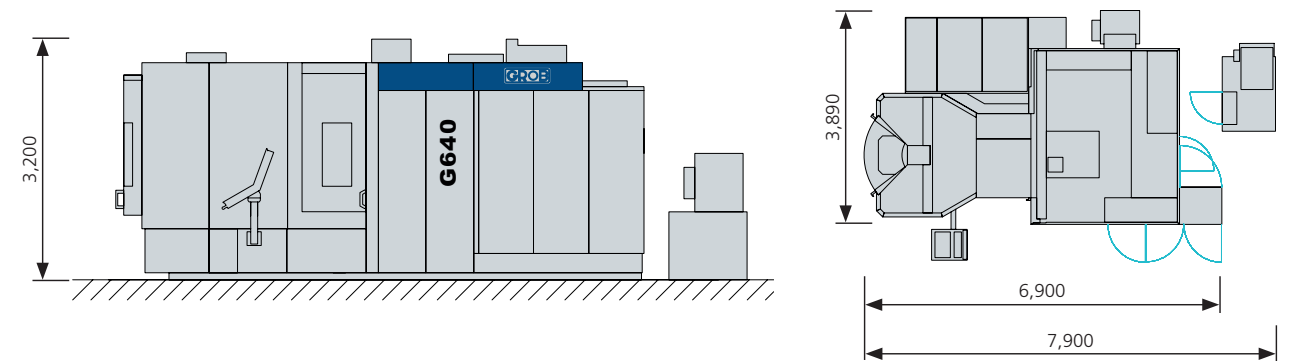


* Optionally extended interference diameter with flattened diameter

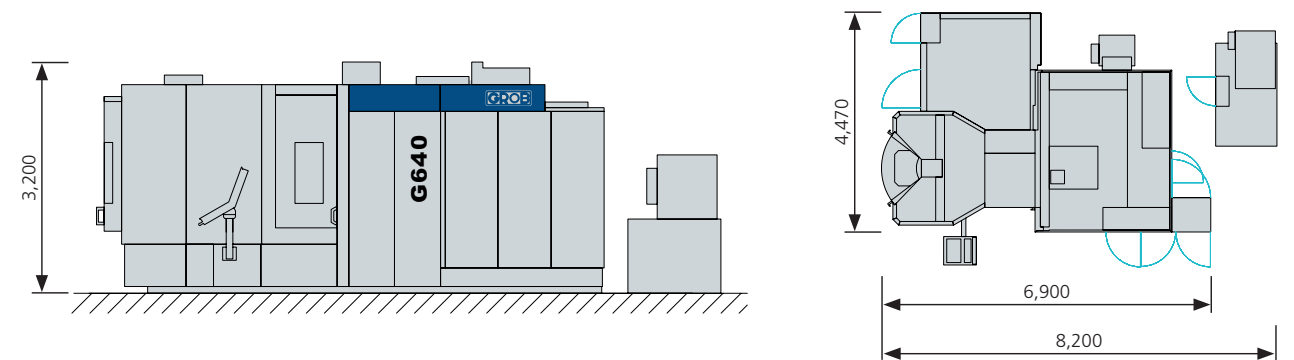
Illustrations may contain options
Subject to technical changes without prior notice

Side view / top view max. [mm]

Basic machine with compact magazine and basic cutting fluid system



Basic machine with large tool magazine and premium cutting fluid system



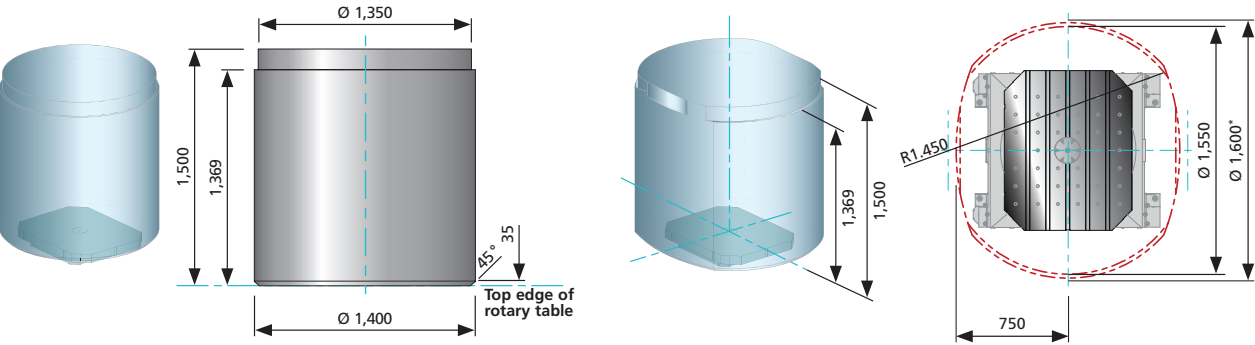
Dimension values [mm], not taking into account preventive maintenance and operating areas

Illustrations may contain options
Subject to technical changes without prior notice

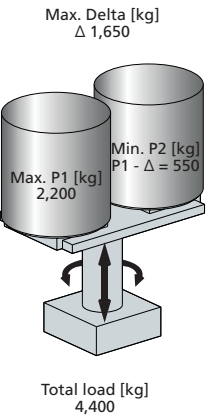
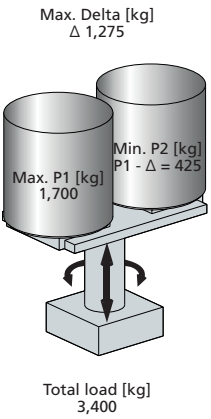
Maximum part size and loading specifications
footprint

G840

Maximum part size [mm]	
Standard	Option



Loading specifications	
Standard	Option

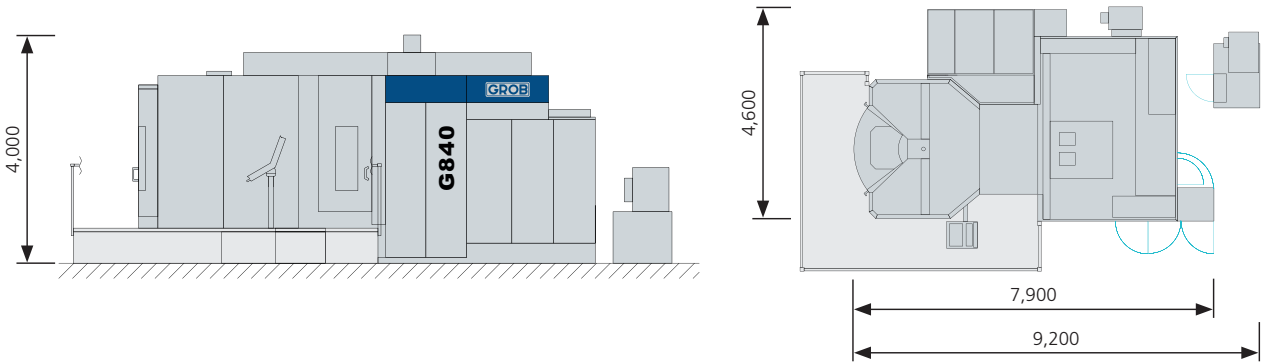


* Optionally extended interference diameter with flattened diameter

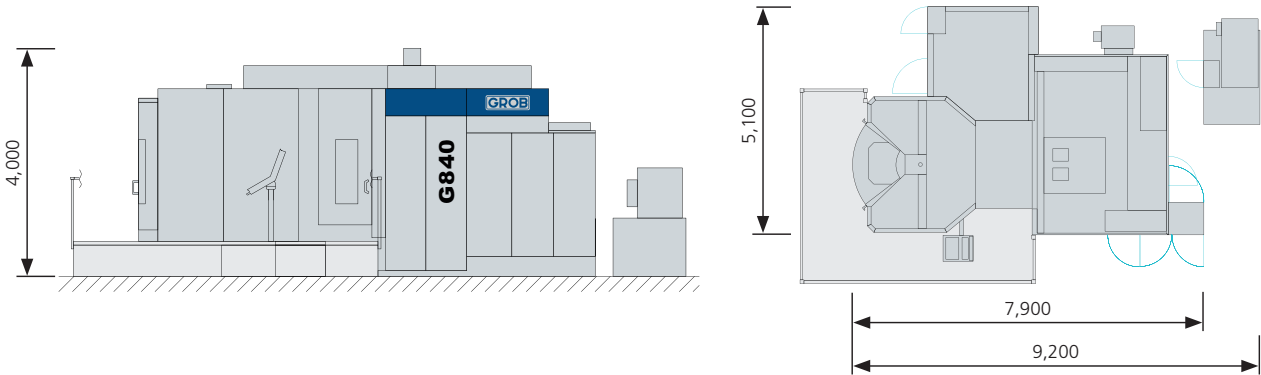
Illustrations may contain options
Subject to technical changes without prior notice

Side view / top view max. [mm]

Basic machine with compact magazine and basic cutting fluid system



Basic machine with large tool magazine and premium cutting fluid system



Dimension values [mm], not taking into account preventive maintenance and operating areas

Illustrations may contain options
Subject to technical changes without prior notice

Technical data – overview

G440/G640/G840

MACHINE TYPE		G440					G640								G840							
SLIDE																						
Working travels in X-/Y-/Z-axis [mm]		800/800/800					1,050/800/1,050				1,050/1,000/1,050 ⁽⁹⁾				1,400 (1,500) ⁽¹³⁾ /1,200 ⁽¹⁵⁾ /1,400				1,400 (1,500) ⁽¹³⁾ /1,400/1,400 ⁽⁹⁾			
Max. speeds in X-/Y-/Z-axis [m/min]		70/60/60 (80/70/70) ⁽⁸⁾					70/60/60 (80/70/70) ⁽⁸⁾				60/60/60 (70/70/70) ⁽⁵⁾				50/50/50							
Max. accelerations in X-/Y-/Z-axis [m/s²] ⁽¹¹⁾		6/6.5/6 (6.5/8/8.8) ⁽⁸⁾					6/6.5/6 (6.5/8/8.2) ⁽⁸⁾				4.5/5.5/6 (4.5/6.5/8.2) ⁽⁵⁾				4.5/5.5/4.5							
Max. feed forces in X-/Y-/Z-axis [kN] ⁽¹¹⁾		8/8/10					10/10/12								12/12/15							
Positioning accuracy ⁽²⁾ in X-/Y-/Z-axis [mm]		0.006					0.006								0.006							
Repeat precision of positioning ⁽²⁾ in X-/Y-/Z-axis [mm]		<0.0025					<0.003								<0.003							
MAIN SPINDLE																						
Drive: Standard	Tool interface for hollow taper shanks ISO 12164/ taper shanks ⁽³⁾ acc. to DIN ISO 7388	HSK-A63					HSK-A63								HSK-A100							
	Diameter of front spindle bearing [mm]	70					70								100							
	Speed n _{max} [rpm]	12,000					12,000								10,000							
	Max. drive power at 100%/40% duty cycle [kW]	40/52					40/52								20/26							
	Max. spindle torque at 100%/40% duty cycle [Nm]	63.7/82.8					63.7/82.8								262/340							
	Chip-to-chip time t ₁ according to VDI 2852 [s] ⁽⁴⁾ Pick-up magazine/tool changer arm	3.4/3.0					3.6/3.2 (3.9/3.5) ⁽¹⁰⁾								—/5.3							
Drive: Options	Tool interface for hollow taper shanks ISO 12164/ taper shanks ⁽³⁾ acc. to DIN ISO 7388	HSK-A63	HSK-A63	HSK-A100	HSK-A100		HSK-A63	HSK-A63	HSK-A100	HSK-A100/SK50 ^(6,11)	HSK-A100 ⁽¹¹⁾	HSK-A100/SK50 ^(6,11)	HSK-A100	HSK-A100 ⁽¹¹⁾	HSK-A100	HSK-A100	HSK-A100/SK50 ⁽⁶⁾	HSK-A100	HSK-A100/SK50 ⁽⁶⁾	HSK-A100	HSK-A100 ⁽¹⁴⁾	
	Diameter of front spindle bearing [mm]	65	80	100	100		65	80	100	120	120	110	100	120	100	120	120	110	120	120	120	
	Speed n _{max} [rpm]	30,000	16,000	10,000	13,000		30,000	16,000	10,000	8,000	8,000	9,000	13,000	7,200	13,000	8,000	8,000	9,000	7,200	6,000		
	Max. drive power at 100%/40% duty cycle [kW]	40/53	25/32	20/26	64/75		40/53	25/32	20/26	52/66	80/100	54/65	64/75	80/100	64/75	52/66	80/100	54/65	80/100	63/78		
	Max. spindle torque at 100%/40% duty cycle [Nm]	48/63	159/206	262/340	226/265		48/63	159/206	262/340	699/900	1,107/1,404	470/575	226/265	1,273/1,666	226/265	699/900	1,107/1,404	470/575	1,273/1,666	2,000/2,400		
	Chip-to-chip time t ₁ according to VDI 2852 [s] ⁽⁴⁾ Pick-up magazine/tool changer arm	3.4/3.0	3.4/3.0	—/3.5	—/3.5		3.6/3.2 (3.9/3.5) ⁽¹⁰⁾	3.6/3.2	—/4.0 ⁽¹⁰⁾	—/4.8	—/4.8	—/4.0	—/4.0 ⁽¹⁰⁾	—/4.0	—/5.3	—/6.2	—/6.2	—/5.5	—/5.5	—/6.2		
PART																						
Max. load on pallet [kg] (standard/option)		850/—					1,000/1,500 ⁽¹²⁾								1,700/2,200 ⁽¹²⁾							
B-axis interference diameter [mm]		800 (1,050) ⁽¹³⁾					1,050 (1,300) ⁽¹³⁾								1,400 (1,600) ⁽¹³⁾							
Max. part height [mm] (with pallet)		1,000					1,300								1,500							
CUTTING FLUID / CHIP DISPOSAL																						
Volume of cutting fluid tank basic/premium [l]		900/2100					900/2100								900/2100							
Cutting fluid filter flow rate [l]		400					400								400							
WEIGHT (approx.)																						
Total weight [kg] (with pallet changer, without tool magazine)		18,000					23,500								37,600							
PROCESS STAGES																						
Pallet size [mm] (standard/option)		500x500/500x630; 630x630					630x630/630x800; 800x800								800x800/800x1,000							
Pallet change time according to VDI 2852 [s] ⁽⁷⁾		12.0					14.0								17.0							

⁽¹⁾ Depending on type of motorized spindle and load weight

⁽²⁾ According to ISO 230-2:2014

⁽³⁾ Spindles with BIG PLUS® interface

⁽⁴⁾ Depending on tool length/opt. dynamic package

⁽⁵⁾ Opt. work area expansion with dynamic package

⁽⁶⁾ DIN ISO 7388 form A/U/J (45°)

⁽⁷⁾ Without seating check

⁽⁸⁾ Dynamic package

⁽⁹⁾ Opt. work area expansion

⁽¹⁰⁾ With opt. work area expansion, depending on tool length/opt. dynamic package

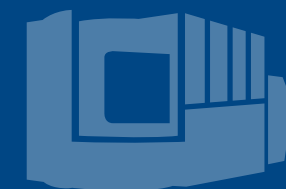
⁽¹¹⁾ Available in combination with the opt. work area expansion

⁽¹²⁾ Available independent of opt. work area expansion

⁽¹³⁾ Extended interference with flattened diameter

⁽¹⁴⁾ Gear spindle

⁽¹⁵⁾ Y-axis working travel deviates in case of gear spindle: 1,180 mm



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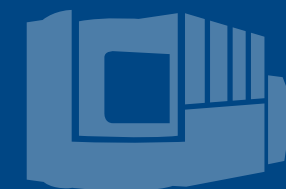
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Automation overview

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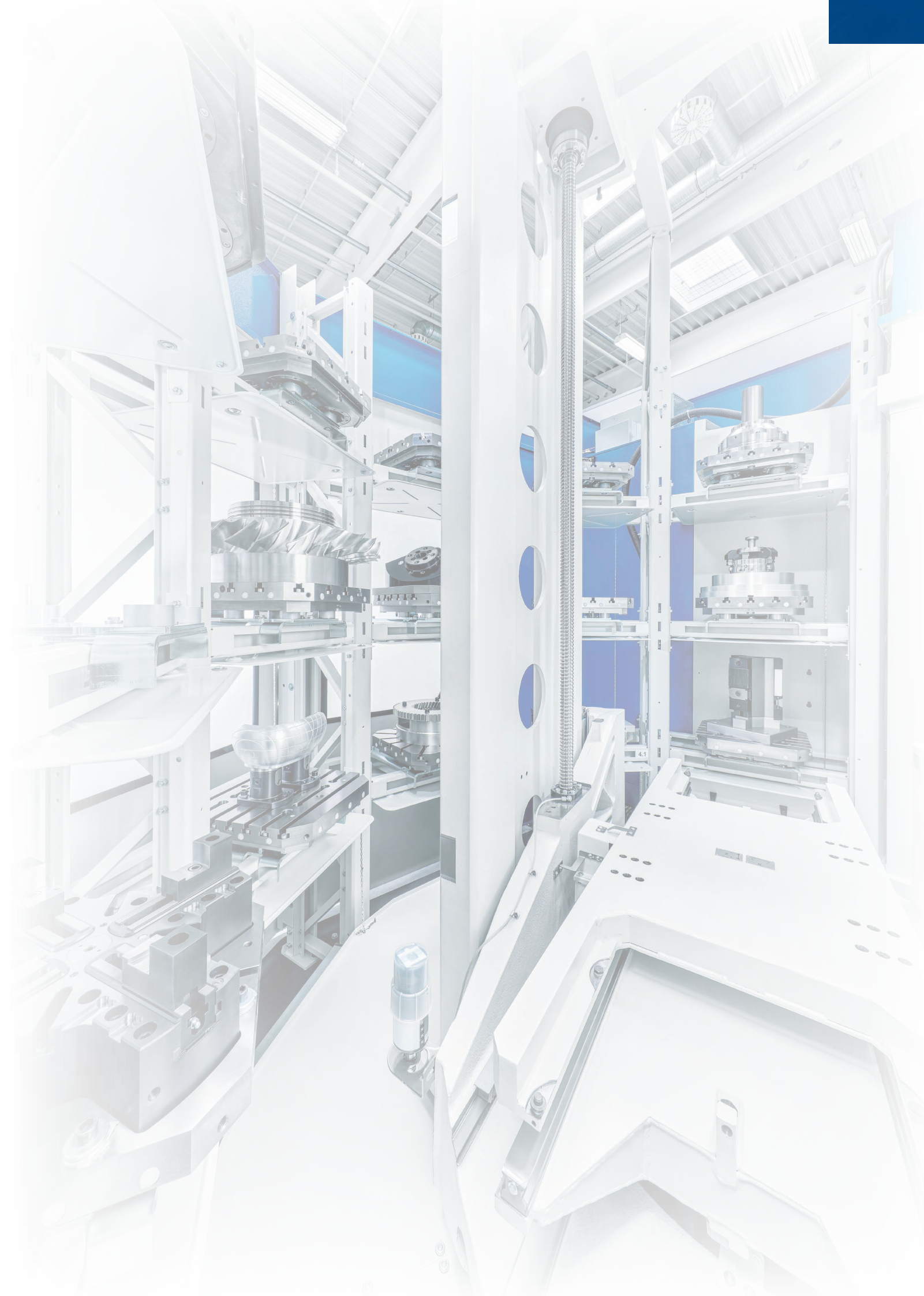
ROTARY PALLET STORAGE SYSTEM (PSS-R)

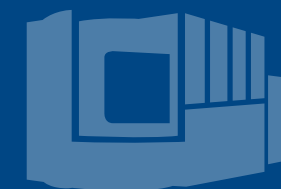
- Optimum entry into automated and highly efficient production



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