

*#YourAccessToSuccess*



# 5-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



## COMMISSIONING



PRODUCTION



TECHNICAL  
APPLICATION CENTERS

Our production plants in Germany, Brazil, the USA, China, Italy and India have technical application centers for the machining and electromobility sectors, where our customers can experience GROB technologies up close.





*5-axis universal machining centers by GROB*

# THE RIGHT CONCEPT FOR YOUR INDUSTRY

## 5-AXIS UNIVERSAL MACHINING CENTERS

Machine concept

Machine components

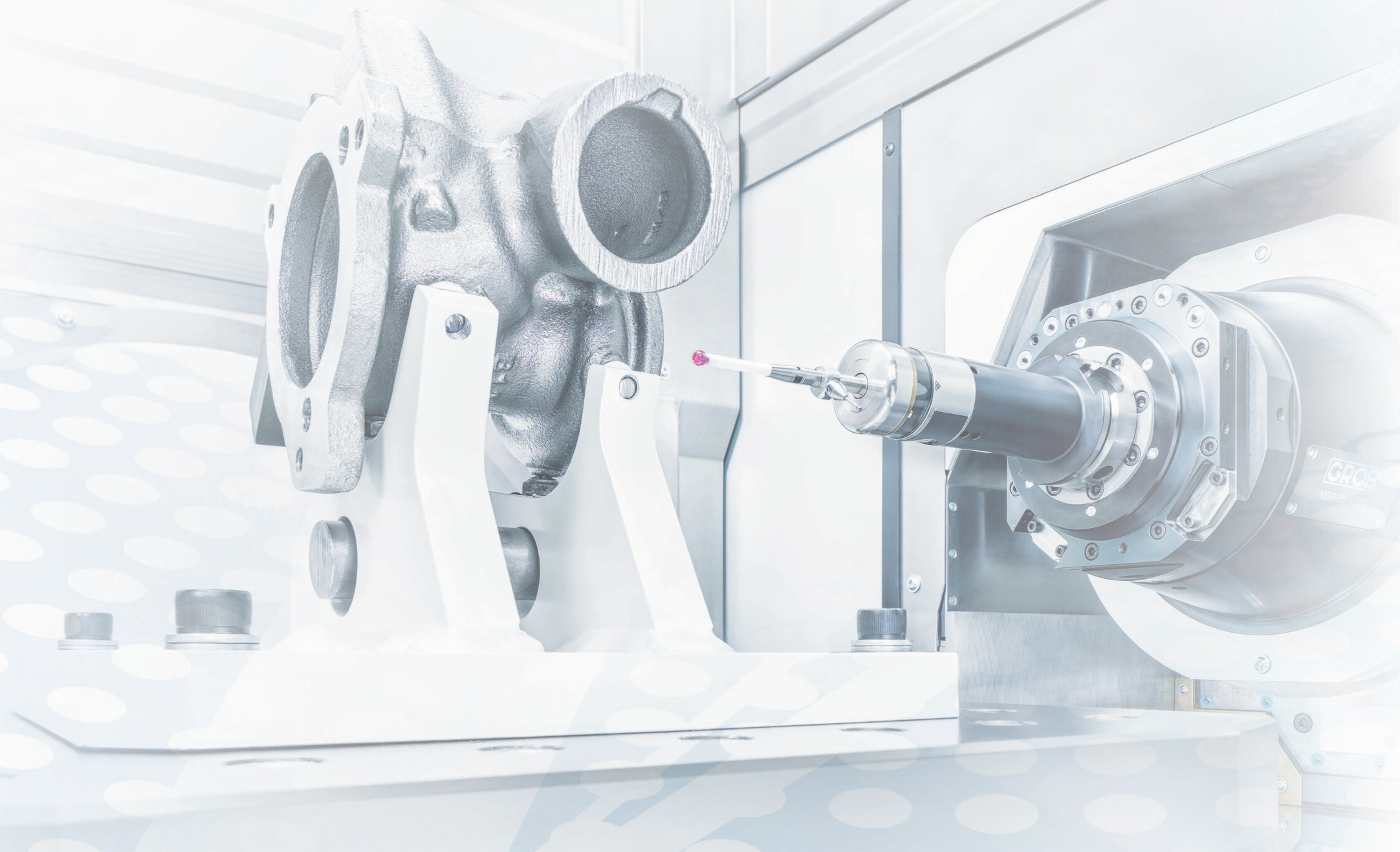
Technical data

TECHNOLOGY OPTIONS

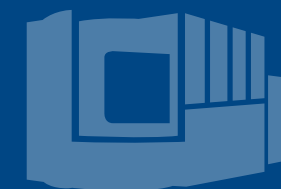
AUTOMATION SOLUTIONS

DIGITALIZATION

SERVICE







## *Smart entry into GROB technology* **THE ACCESS- SERIES**

Short payback period with best machining quality: No matter whether mechanical engineering or automotive – our basic models G350a and G550a cover a convincingly broad range of possible applications. The access-series meets the broadest range of part requirements, offering customers an exclusive entry into the unique GROB technology.

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



OUR PORTFOLIO  
#G350a #G550a



## Smart and cost-conscious entry THE BASIC MODELS G350a AND G550a

The option of modular expansion with automation packages makes the G350a and G550a base models the perfect solution for your efficient and cost-conscious production facility. Three linear axes and two rotary axes permit 5-sided machining.

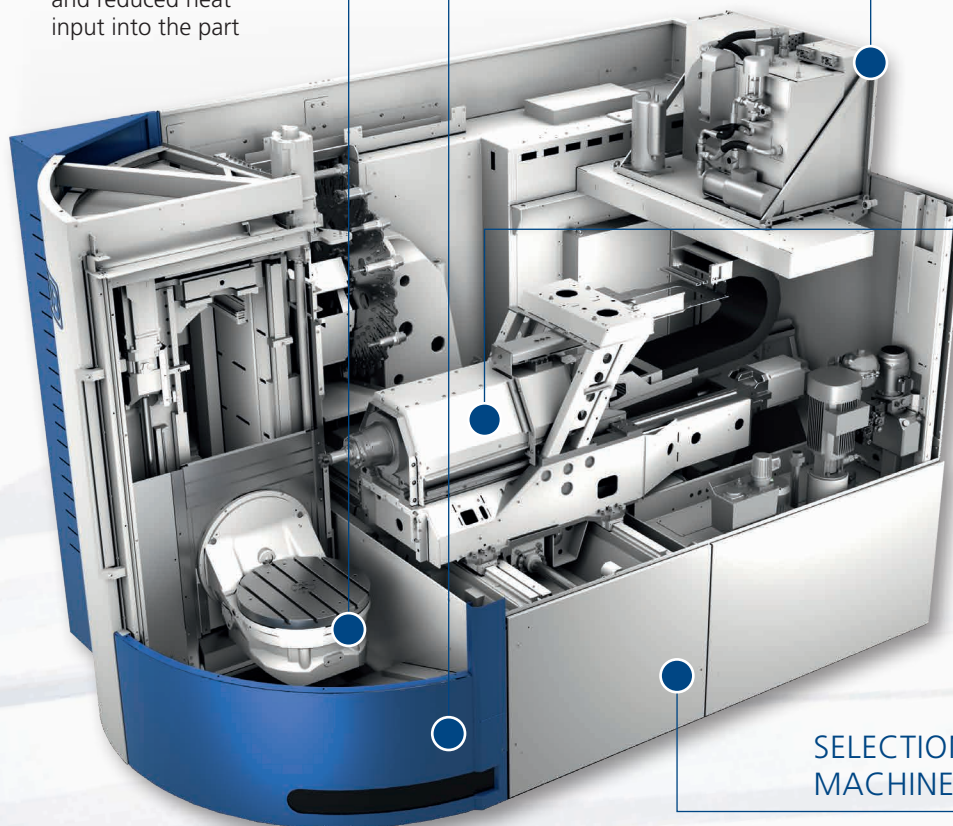
The drive concept is based on a ball screw and for the G550a on a weight compensation in the Y-axis. A torque motor in the B-axis ensures dynamic and wear-free machining of parts.

### ERGONOMIC AND SAFE

- ✚ Perfect view of the machining operation through a laminated glass safety screen
- ✚ Wide-opening work area doors for optimized accessibility and crane loading

### UNIQUE OVERHEAD MACHINING

- ✚ With excellent chip fall and reduced heat input into the part



### SELECTION BETWEEN DIFFERENT MACHINE CONTROL SYSTEMS

- ✚ Choice between SIEMENS or HEIDENHAIN machine control systems

### EFFICIENT MACHINE COOLING

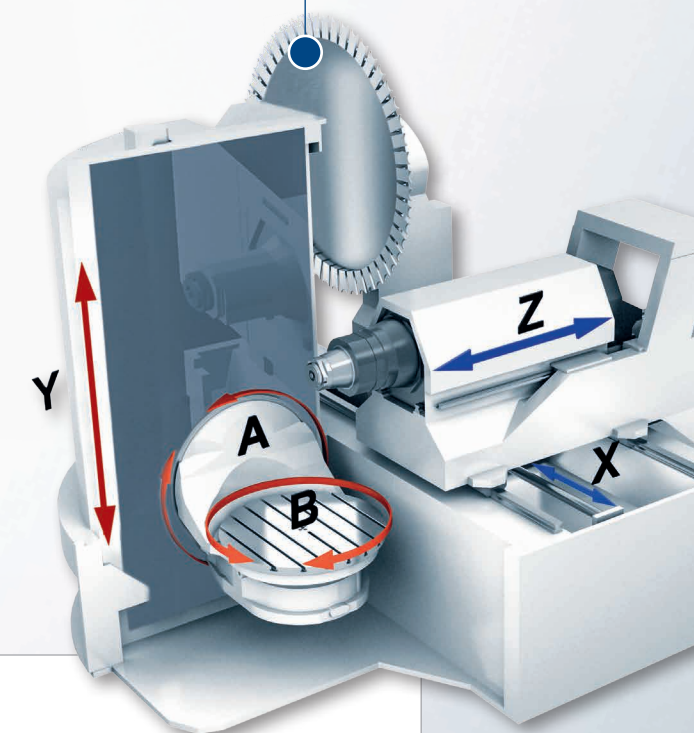
- ✚ Active temperature control of machine components

### STABLE SPINDLE AXIS

- ✚ Special design for consistent stability in every machining position

### DISK-TYPE TOOL MAGAZINE

- ✚ Fast chip-to-chip times thanks to the integrated disk-type tool magazine with double gripper technology



### UNIQUE AXIS CONCEPT

- ✚ Optimally designed operating point (TCP) for especially high cutting volume
- ✚ Longest Z-travel path of this machine class
- ✚ Extremely large swivel range of 230° in the A-axis
- ✚ Largest possible part in the work area can be machined with maximum tool length



*Optimal chip fall*

# OVERHEAD MACHINING & ADDITIONAL ANGULAR POSITIONS

Due to the slim spindle design and the extremely large swivel range of the A-axis, the table can be positioned in various angular positions. This permits optimum accessibility to the part for the tool.

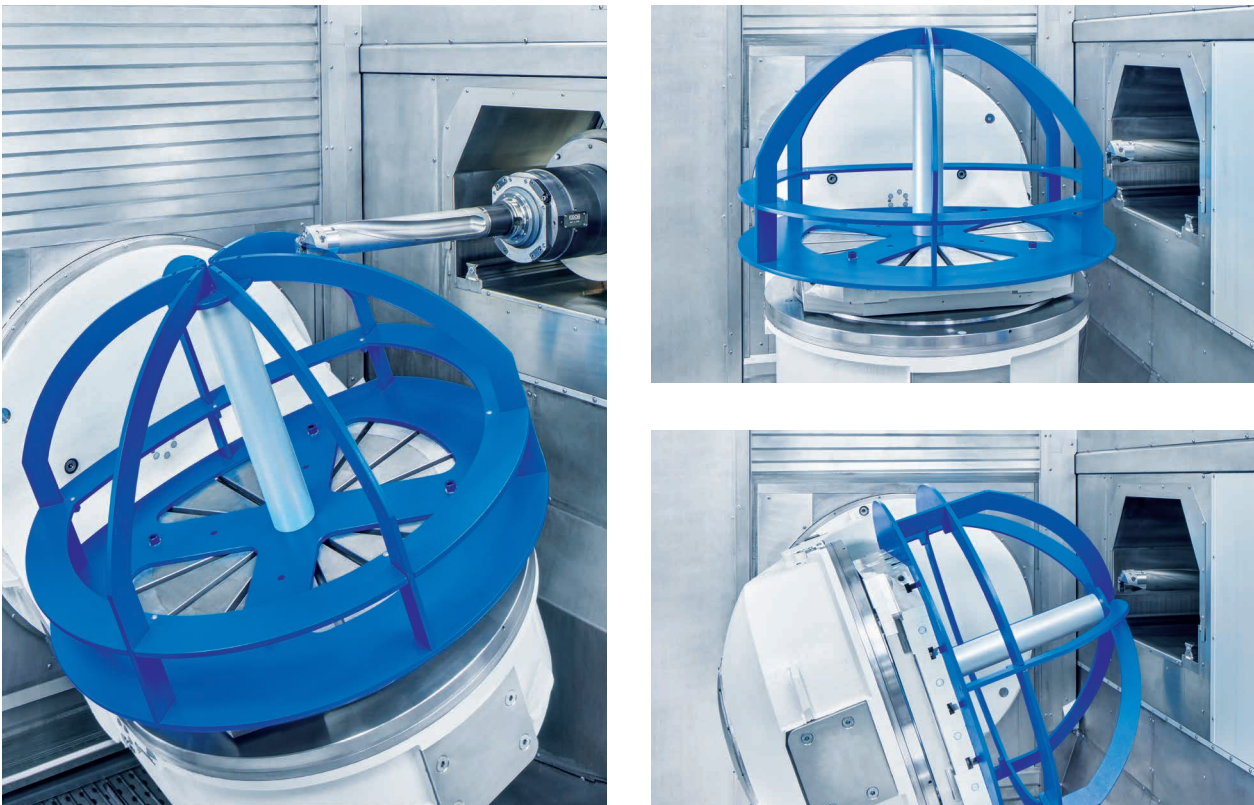
Thanks to the unique axis arrangement with horizontal spindle bearing, chips fall directly into the chip shaft and the part remains largely free of interfering chip accumulations.



*Tunnel concept*

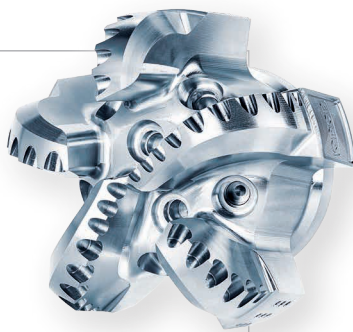
# PART MACHINING WITH MAXIMUM TOOL LENGTH

Thanks to the special axis concept, the full tool length can be employed in any axis position, even with maximum part size. The "tunnel" concept allows the entire work area to be utilized, since the motorized spindle and tool can fully retract from the work area towards the rear.



## UNIQUE AXIS CONCEPT

- ⊕ Best tool life due to perfect chip fall
- ⊕ Simple cleaning of components ahead of the part/pallet change
- ⊕ No cutting fluid residue in the part
- ⊕ No heat input into the machine from chips left on part, clamping equipment, and machining table



### MAX. TOOL LENGTH ▶ [mm]

	G350a	G550a
Single disk-type tool magazine HSK-A63	365	465
Compact double disk-type tool magazine HSK-A63 (outside/inside)	365/200	465/200
Single disk-type tool magazine HSK-A100	—	500
Compact double disk-type tool magazine HSK-A100 (outside/inside)	—	500/200

Subject to technical changes without prior notice



## 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

Spindle types –  
Availability at a glance!

SPINDLE TYPE ↔ MACHINE					
Tool interface for hollow taper shanks acc. to ISO 12164-1	HSK-A63	HSK-A63	HSK-A63	HSK-A100	HSK-A100
Spindle type	5	9/25	1	7	3
Speed $n_{max}$ [rpm]	12,000	16,000	18,000	9,000	10,000
Max. spindle torque at 100 %/40 % duty cycle [Nm]	63.7/ 82.8	159/ 206	34.6/ 46.6	470/ 575	262/ 340
Spindle bearing Ø at front bearing [mm]	70	80	70	110	100
Max. drive power at 100 %/40 % duty cycle [kW]	40/ 52	25/ 32	29/ 39	54/ 65	20/ 26
Spindle bearing lubrication ▶ Lifetime lubrication	•	•	•	•	•
▶ Oil/air lubrication	—	○	—	—	—
<b>G350a</b>	•	○	○	—	—
<b>G550a</b>	•	○	○	○	○

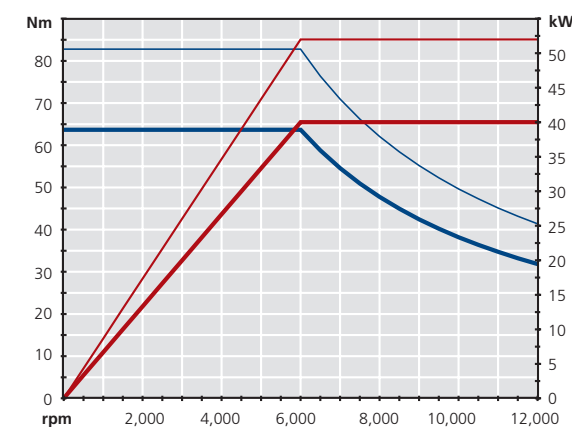
• Standard    ○ Option    — Not available

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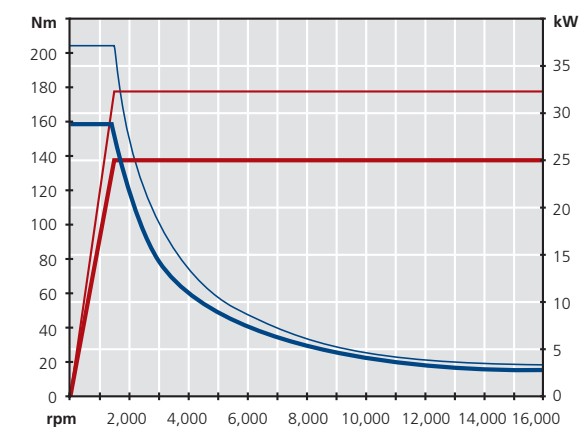
## Torque – rotational speed – output

## MOTORIZED SPINDLE VERSIONS

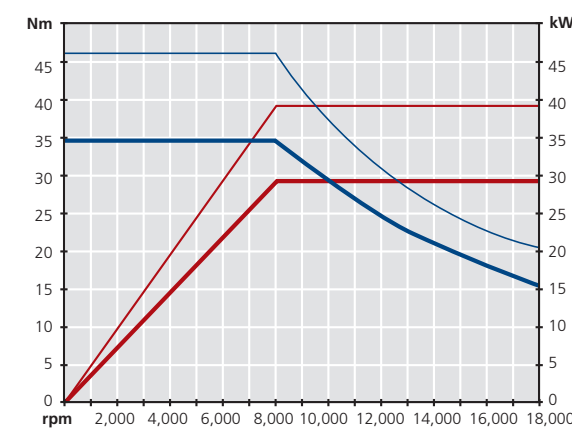
**TYPE 5:**  
HSK-A63 ▶ Motorized spindle 83 Nm, 12,000 rpm



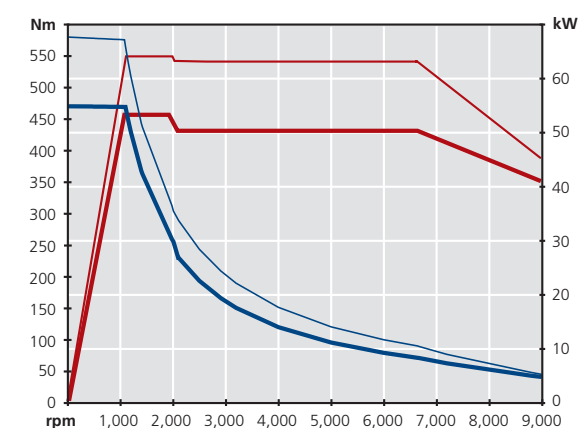
**TYPE 9/25:**  
HSK-A63 ▶ Motorized spindle 206 Nm, 16,000 rpm



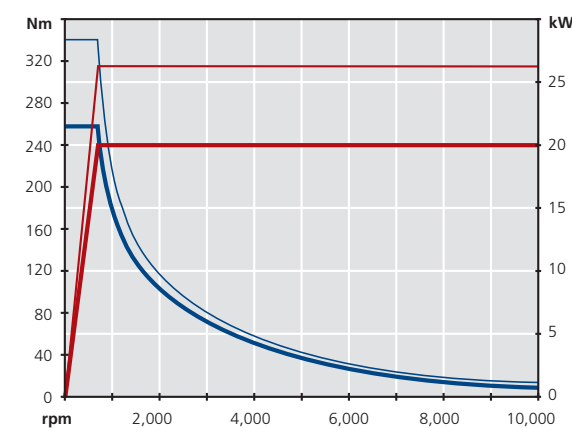
**TYPE 1:**  
HSK-A63 ▶ Motorized spindle 47 Nm, 18,000 rpm



**TYPE 7:**  
HSK-A100 ▶ Motorized spindle 575 Nm, 9,000 rpm



**TYPE 3:**  
HSK-A100 ▶ Motorized spindle 340 Nm, 10,000 rpm




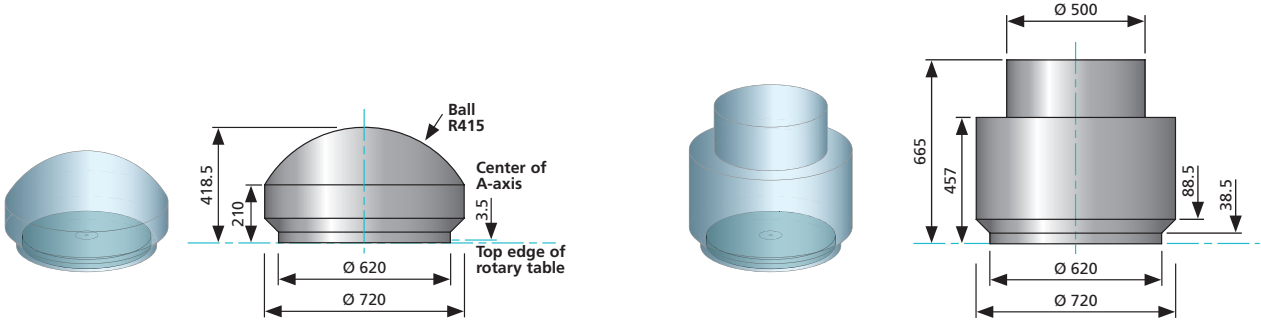
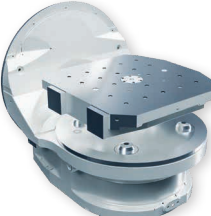
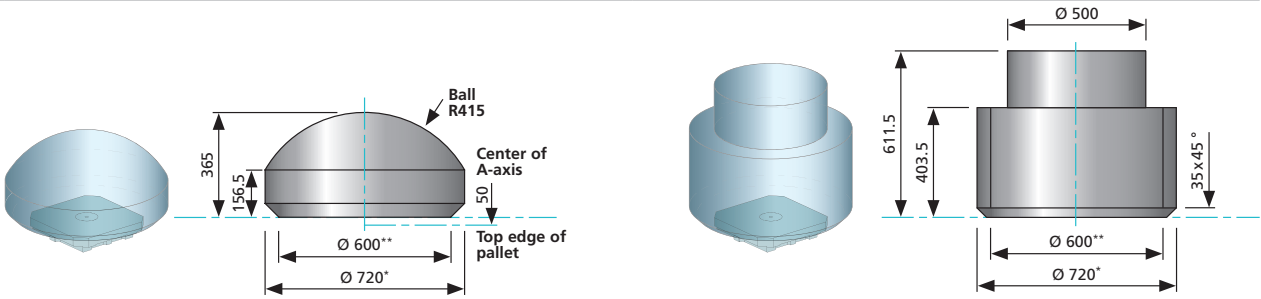

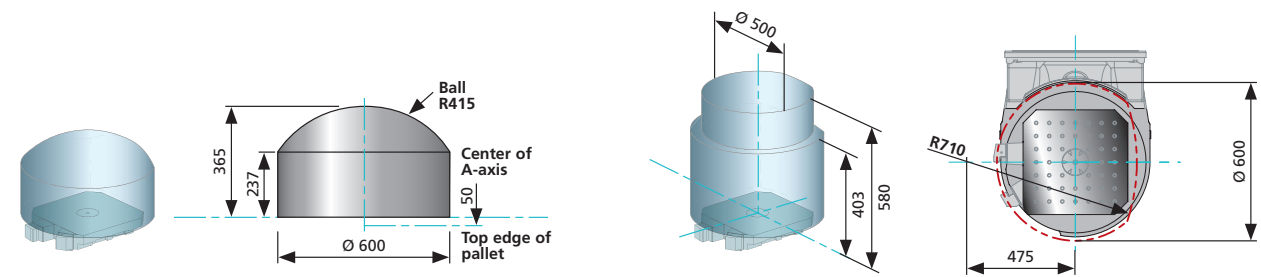
— Power S1: 100 % duty cycle    — Power S6: 40 % duty cycle  
— Torque S1: 100 % duty cycle    — Torque S6: 40 % duty cycle



Tilting rotary table

TABLE VERSIONS G350a

TECHNICAL DATA – ROTARY AXES	
A-axis swiveling angle [°]	-185/+45
Max. A-axis rotational speed [rpm]	12
A-/B-axis drive type	Worm gear/ torque motor
B-axis angle of rotation [°]	n x 360
Max. B-axis rotational speed [rpm]	50

TILTING ROTARY TABLE WITH T-SLOTS ARRANGED IN PARALLEL (STANDARD)		A- / B-axis max. [mm]	B-axis max. [mm] (for A-axis 0°)
Basic machine			
Aligning slots (quantity/width/quality)	1 x 14 H7		
Clamping slot (quantity/width/quality)	4 x 14 H12		
Table diameter [mm]	570		
Interference diameter [mm]	720		
TILTING ROTARY TABLE WITH PALLET (OPTION)		A- / B-axis max. [mm]	B-axis max. [mm] (for A-axis 0°)
Basic machine with pallet			
Pallet size [mm]	400 x 400		
Max. pallet load [kg]	340		
Basic machine with pallet changer			
Pallet size [mm]	400 x 400		
Max. pallet load [kg]	340		

\*Usable range without pallet storage system    \*\*Usable range with pallet storage system  
Subject to technical changes without prior notice

A- / B-axis arrangement

MAXIMUM  
PART SIZE


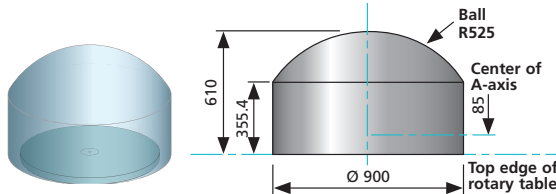
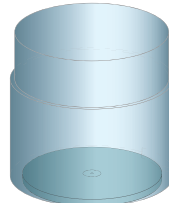
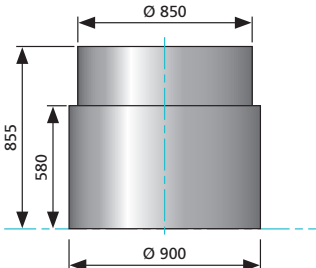
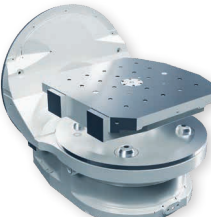
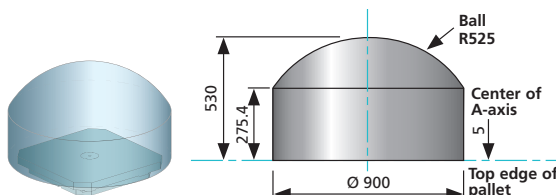
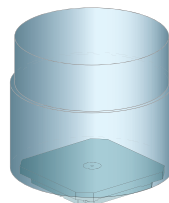
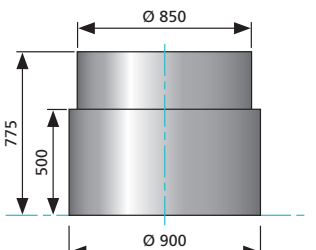

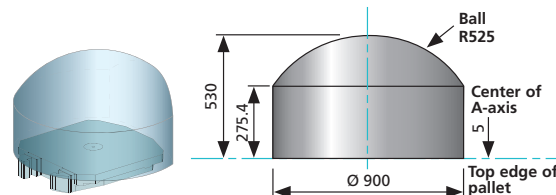
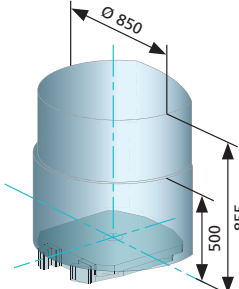
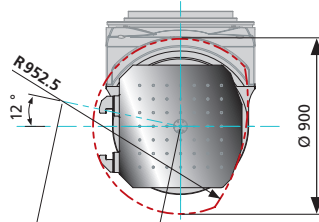




Tilting rotary table

TABLE VERSIONS G550a

TECHNICAL DATA – ROTARY AXES	
A-axis swiveling angle [°]	-185/+45
Max. A-axis rotational speed [rpm]	12
A-/B-axis drive type	Worm gear/ torque motor
B-axis angle of rotation [°]	n x 360
Max. B-axis rotational speed [rpm]	50

TILTING ROTARY TABLE WITH T-SLOTS ARRANGED IN PARALLEL (STANDARD)		A- / B-axis max. [mm]		B-axis max. [mm] (for A-axis 0°)	
Basic machine					
Aligning slots (quantity/width/quality)	1 x 14 H7				
Clamping slot (quantity/width/quality)	6 x 14 H12				
Table diameter [mm]	770				
Interference diameter [mm]	900				
TILTING ROTARY TABLE WITH PALLET (OPTION)		A- / B-axis max. [mm]		B-axis max. [mm] (for A-axis 0°)	
Basic machine with pallet					
Pallet size [mm]	630x630				
Max. pallet load [kg]	600				
Basic machine with pallet changer					
Pallet size [mm]	630x630				
Max. pallet load [kg]	600				

Subject to technical changes without prior notice

A- / B-axis arrangement

MAXIMUM  
PART SIZE





Versatile combinations

# TOOL MAGAZINES BY GROB

GROB tool magazine technology is set apart by fast chip-to-chip times, a small space requirement, and optimized accessibility. You will also profit from fast tool change thanks to a highly dynamic tool changer arm with a swiveling double gripper, loading and unloading in parallel to machining operation, and permanent access to the tool magazine disk.

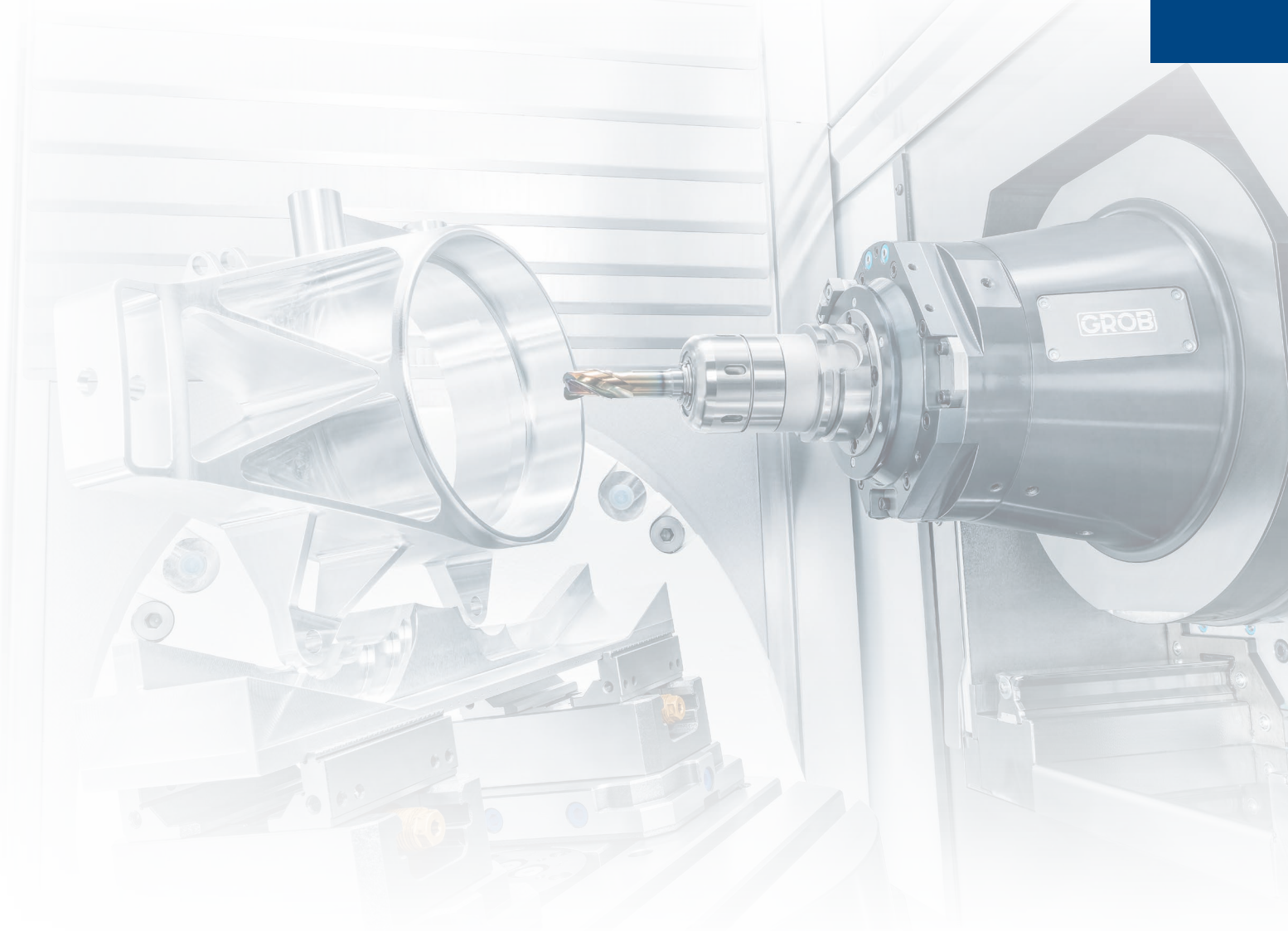


SINGLE/COMPACT DOUBLE DISK-TYPE  
TOOL MAGAZINE

- Vertically adjacent magazine disks (disks can be rotated individually)

## ADDITIONAL TOOL MAGAZINE TM (OPTION)

- Increases the basic machine's tool capacity with block-wise setup of up to:
  - six HSK-A63 tools for TM200
  - five HSK-A100 tools for TM180
- The additional tool magazine can be equipped with tools during the machining operation
- Tool provision in parallel with machining
- Tool and magazine management through the control system of the machine



Number of tool pockets

# G350a / G550a

G350a ▶ BASIC MACHINE ◀▶ ADDITIONAL TOOL MAGAZINE TM			
Motorized spindle	Tool interface	Number of tool pockets <sup>(1)</sup>	Total number of tools of the basic machine and the TM
Single disk-type tool magazine			TM200
For all spindle types	HSK-A63	34/40	228/234
	HSK-A63 <sup>(2)</sup>	50/60	244/253
Compact double disk-type tool magazine			TM200
For all spindle types	HSK-A63 <sup>(2)</sup>	90/100	—

G550a ▶ BASIC MACHINE ◀▶ ADDITIONAL TOOL MAGAZINE TM				
Single disk-type tool magazine			TM200	TM180
For all spindle types	HSK-A63	50/60	244/253	—
	HSK-A100 <sup>(2)</sup>	30/34	—	204/208
Compact double disk-type tool magazine			TM200	TM180
For all spindle types	HSK-A63 <sup>(2)</sup>	90/100	—	—
	HSK-A100 <sup>(2)</sup>	46/50	—	—

<sup>(1)</sup> Depending on machine configuration  
<sup>(2)</sup> Optional

Subject to technical changes without prior notice



GROB<sup>4</sup>Pilot

# YOUR POWERFUL MACHINE CONTROL PANEL

The innovative GROB<sup>4</sup>Pilot 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 GROB<sup>4</sup>Pilot control system itself.

- Enhanced user comfort thanks to simplified and intuitive machine operation
- Access to the GROB-NET<sup>4</sup>Industry 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

## 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

## FLEXIBLE DISPLAY LAYOUT

- Free division into up to three apps

AVAILABLE CNC CONTROL SYSTEM PROVIDERS FOR GROB <sup>4</sup> PILOT		
	SIEMENS SINUMERIK ONE	HEIDENHAIN TNC7
G350a	•	◦
G550a	•	◦

The implementation of GROB<sup>4</sup>Pilot can differ between SIEMENS and HEIDENHAIN

• Standard ◦ Option



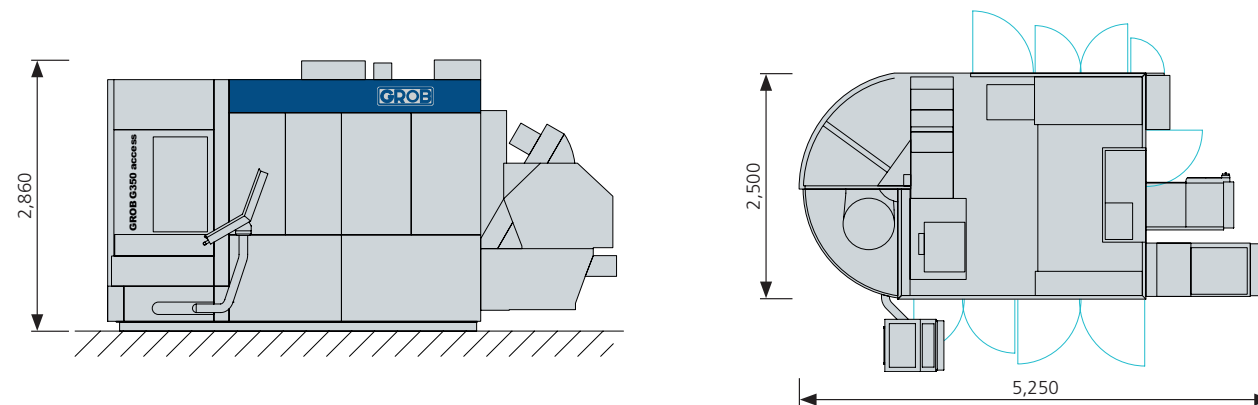
Example illustration



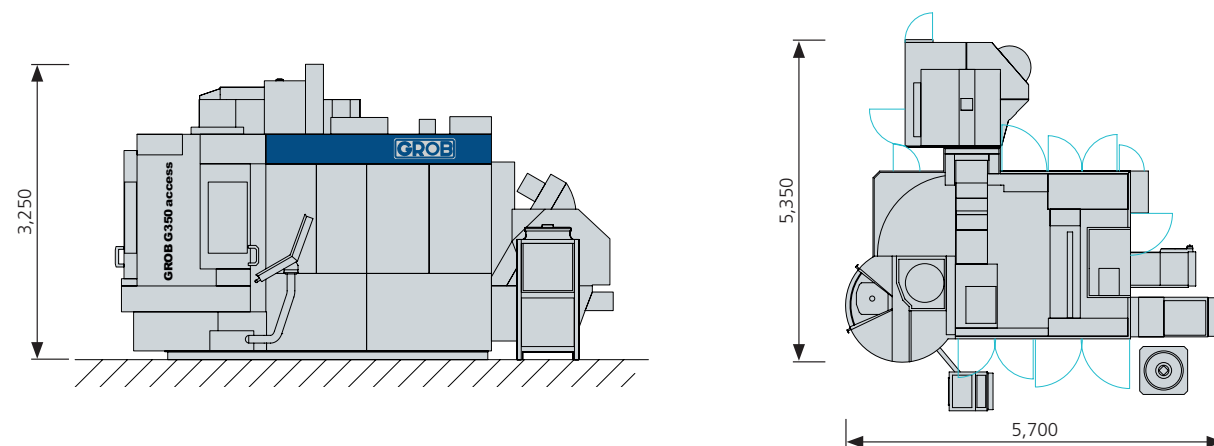
## Footprint G350a

Side view / top view  
max. [mm]

Basic machine



Basic machine with pallet changer, additional tool magazine and cooling unit



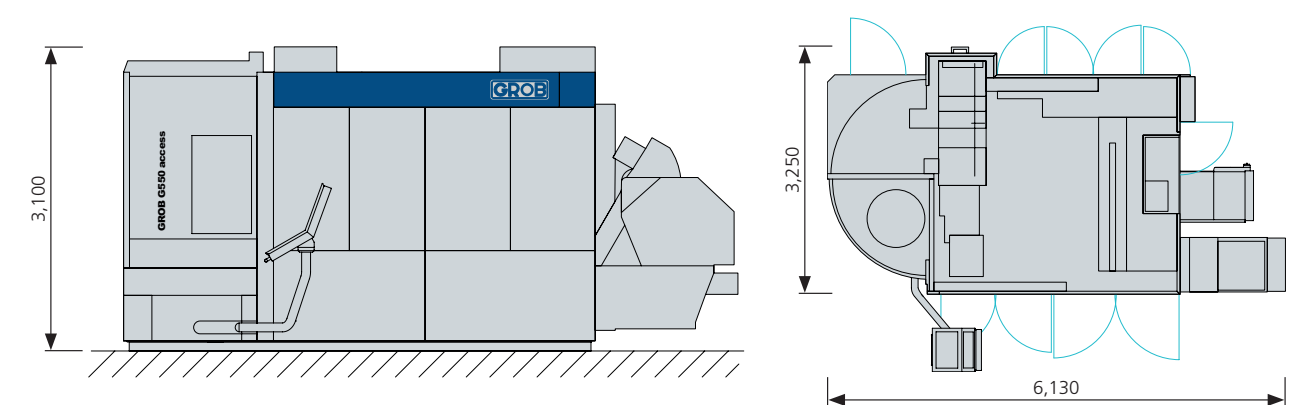
Dimension values [mm], not taking into account preventive maintenance and operating areas or emulsion and chip disposal

Illustrations may contain options  
Subject to technical changes without prior notice

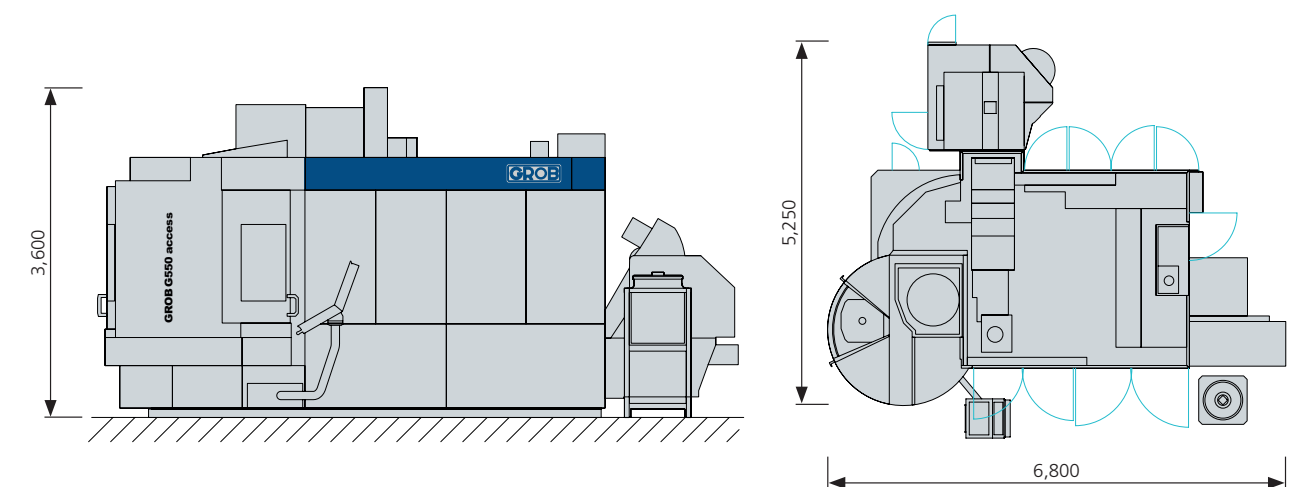
## Footprint G550a

Side view / top view  
max. [mm]

Basic machine



Basic machine with pallet changer, additional tool magazine and cooling unit



Dimension values [mm], not taking into account preventive maintenance and operating areas or emulsion and chip disposal

Illustrations may contain options  
Subject to technical changes without prior notice



Technical data – overview

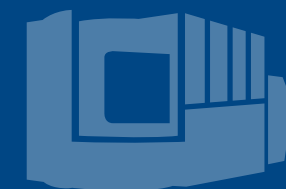
# G350a/G550a

MACHINE TYPE			G350a			G550a				
SLIDE										
Working travels in X-/Y-/Z-axis [mm]			600/770/805			800/950/1,020				
Max. speeds in X-/Y-/Z-axis [m/min]			60/42/60			60/42/60				
Max. accelerations in X-/Y-/Z-axis [m/s²] <sup>(1)</sup>			5/3/10			6/4/8				
Max. feed forces in X-/Y-/Z-axis [kN] <sup>(1)</sup>			8/8/8			8/8/10 <sup>(1)</sup>				
Positioning accuracy* in X-/Y-/Z-axis [mm]			0.006			0.006				
Repeat precision of positioning* in X-/Y-/Z-axis [mm]			<0.0025			<0.0025				
Positioning accuracy* in A-/B-axis [°]			0.0017/0.0011			0.0017/0.0011				
Repeat precision of positioning* in A-/B-axis [°]			0.0008			0.0008				
MAIN SPINDLE										
Drive: Standard	Tool interface for hollow taper shanks acc. to ISO 12164-1		HSK-A63			HSK-A63				
	Diameter of front spindle bearing [mm]		70			70				
	Speed n <sub>max</sub> [rpm]		12,000			12,000				
	Max. drive power at 100%/40% duty cycle [kW]		40/52			40/52				
	Max. spindle torque at 100%/40% duty cycle [Nm]		63.7/82.8			63.7/82.8				
	Chip-to-chip time t <sub>i</sub> according to VDI 2852 [s], SIEMENS control system and tool change process: Pick-up		4.5			4.8				
Drive: Options	Tool interface for hollow taper shanks acc. to ISO 12164-1		HSK-A63		HSK-A63		HSK-A63	HSK-A63	HSK-A100	HSK-A100
	Diameter of front spindle bearing [mm]		80		70		80	70	110	100
	Speed n <sub>max</sub> [rpm]		16,000		18,000		16,000	18,000	9,000	10,000
	Max. drive power at 100%/40% duty cycle [kW]		25/32		29/39		25/32	29/39	54/65	20/26
	Max. spindle torque at 100%/40% duty cycle [Nm]		159/206		34.6/46.6		159/206	34.6/46.6	470/575	262/340
	Chip-to-chip time t <sub>i</sub> according to VDI 2852 [s], SIEMENS control system and tool change process: Pick-up		4.5		4.5		4.8	4.8	6.1	5.9
DISK-TYPE TOOL MAGAZINE			STM	STM	CDTM	STM	CDTM	STM	CDTM	
TOOL INTERFACE			HSK-A63	HSK-A63	HSK-A63	HSK-A63	HSK-A63	HSK-A100	HSK-A100	
Number of tool pockets <sup>(1)</sup>			34/40	50/60	90/100	50/60	90/100	30/34	46/50	
Max. tool length [mm]										
▶ Vertical disk arrangement (outside/inside)			365/—	365/—	365/200	465/—	465/200	500/—	500/200	
Max. tool diameter [mm] <sup>(1)</sup>										
▶ No diameter restrictions for adjacent pockets			86/72	86/72	86/72	86/72	86/72	140/124	140/124	
▶ With diameter restrictions for adjacent pockets (outside/inside)			160/—	160/—	160/72	160/—	160/72	250/—	250/100	
Max. tool weight [kg]			8	8	8	8	8	22	22	
Max. tilt moment around gripper groove [Nm]			12	12	12	12	12	40	40	
PART										
Table diameter [mm]			570			770				
Max. table load [kg] (without/with pallet)			400/340			700/600				
Interference diameter [mm]			720			900				
A-axis swiveling angle [°]			-185/+45			-185/+45				
Max. A-axis rotational speed [rpm]			12			12				
Type of drive A-/B-axis [mm]			Worm gear/torque motor			Worm gear/torque motor				
B-axis angle of rotation [°]			n x 360			n x 360				
Max. B-axis rotational speed [rpm]			50			50				
CUTTING FLUID / CHIP DISPOSAL										
Volume of cutting fluid tank [l]			750			950				
Cutting fluid filter flow rate [l]			220			220				
CONNECTION RATINGS										
Power requirements at 3 AC 400 V/50 Hz [kVA]			at least 42			at least 42				
Compressed air [bar]			5			5				
WEIGHT (approx.)										
Max. total weight [kg] (without/with pallet changer) (incl. part/tool/cutting fluid)			15,100/16,600			21,500/25,200				
PROCESS STAGES										
Automatic pallet changer			2-fold			2-fold				
Pallet size [mm]			400x400			630x630				
Pallet change time according to VDI 2852 [s] <sup>(2)</sup>			12.0			13.0				
Tool magazine expansion			TM200 (HSK-A63)			TM200 (HSK-A63)		TM180 (HSK-A100)		

<sup>(1)</sup>Depends on motorized spindle type      <sup>(2)</sup>Time value without seating check system

STM = single disk-type tool magazine; DTM = double disk-type tool magazine CDTM = compact double disk-type tool magazine  
Subject to technical changes without prior notice      \*According to ISO230-2:2014





*Perfect accuracy –  
automatic – any time*

## TECHNOLOGY OPTIONS

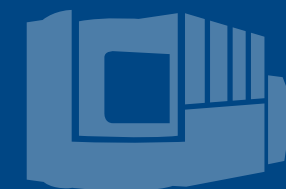
Our innovative technologies enable you to monitor the process in real-time and react immediately to changes. By accurately recording process forces, we identify deviations and potential problems early on before they lead to costly failures.

- ✦ Process monitoring
- ✦ Accuracy
- ✦ Productivity
- ✦ Precision machining



OUR PORTFOLIO  
#G350a #G550a





*The ideal automation  
solution for your project*

# AUTOMATION MADE BY GROB

Our customers in small, medium, and large-scale production have been relying on GROB automation solutions for decades. The experience gained is fed straight into our automation solutions, making GROB a strong partner – for solutions with pallet or part storage systems to highly flexible, turn-key manufacturing lines. GROB automation technology allows you to flexibly adapt to capacities and guarantees pallet and part handling perfectly in tune with your needs.

- ✦ Mechanical machining and automation from a single source
- ✦ Optimal automation for your production plant
- ✦ Responsibility for quality and scheduling with one partner
- ✦ Turn-key project management



OUR AUTOMATION PORTFOLIO

#PSS-R #PSS-T #PSS-L #GRC  
#FlexibleManufacturingSystems  
#TurnkeyManufacturingLines



## Automation overview

# THE IDEAL AUTOMATION SOLUTION FOR YOUR MACHINE

GROB offers components manufactured in-house for the entire product portfolio for semi to fully automatic manufacturing with the highest quality standards.

### ROTARY PALLET STORAGE SYSTEM (PSS-R)

- Optimum entry into automated and highly efficient production



### LINEAR PALLET STORAGE SYSTEM (PSS-L)

- Highly automated, flexible manufacturing line for a wide variety of part machining processes



### PALLET CHANGER SYSTEM

- Allows retooling during part machining



### PALLET TOWER STORAGE SYSTEM (PSS-T)

- Expands the G-module to a flexible manufacturing cell



### GROB ROBOT CELL (GRC)

- Maximum flexibility and customization in manufacturing







## Moving into a digital future INDUSTRY 4.0

Transparency and connectivity – our modular GROB-NET<sup>4</sup>Industry web applications let you network and digitalize your production processes across all plants to make your production even more efficient. From planning to engineering to maintenance, GROB-NET<sup>4</sup>Industry combines relevant modules for increasing productivity and offers you an all-round package for modern production in the Industry 4.0 era.

- ✚ GROB<sup>4</sup>INTERFACE – easy route to machine communication
- ✚ GROB<sup>4</sup>CONNECT – connection from the real world to the ERP system
- ✚ GROB<sup>4</sup>LINE – watch the machine on your smartphone
- ✚ GROB<sup>4</sup>ANALYZE – machine feedback for the CIP
- ✚ GROB<sup>4</sup>ANALYZE-OFFICECLIENT – flexible data analysis with hall layout function
- ✚ GROB<sup>4</sup>BROWNFIELD – digital interconnection of various machines
- ✚ GROB<sup>4</sup>TDX – transfer tool data automatically
- ✚ GROB<sup>4</sup>PARTFLOW – process transparency for parts
- ✚ GROB<sup>4</sup>TRACK – machine axes in view at all times
- ✚ GROB<sup>4</sup>OPTIMIZATION – motorized spindle process evaluation



OUR SOFTWARE PORTFOLIO

#GrobNet4Industry #InteractiveApplication  
#Cloud4Machine





*Friendly,  
committed, competent*  
**GROB SERVICE**

From 24-hour service and a comprehensive range of spare parts and training courses to professional machine maintenance and analysis: The GROB service spectrum offers you a comprehensive range of products and services and is available to you worldwide thanks to our global production plants and service branches.

- ✚ Worldwide service network
- ✚ Available 24/7/360
- ✚ One hotline for everything
- ✚ We are right where our customers are



OUR SERVICE PORTFOLIO

#Hotline #Webshop #ServiceAgreements  
#SpareParts #RepairCenter #Overhaul&Optimization  
#MotorizedSpindleService #GrobTechnicalAcademy



Worldwide throughout the machine service life

# GROB – GLOBAL AND INTERNATIONAL

From Bavaria to the world: Since our founding in 1926 in Munich, we as a global, family-managed company have been on a constant growth trajectory developing and manufacturing systems and machine tools. Our customers include the world's leading automotive manufacturers, their suppliers, and renowned companies from the aerospace, mechanical engineering, and other industries. With our production facilities in Germany, Brazil, the USA, China, Italy and India, as well as 16 worldwide service centers and sales branches, we are represented around the globe, ensuring the highest quality.

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Baar, Switzerland  
Poznań, Poland  
Győr, Hungary  
Istanbul, Türkiye  
Steyr, Austria

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FOUNDED IN 1926

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Detroit, Michigan, USA  
Querétaro, Mexico

6 PLANTS

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Bangalore, India  
Beijing, China  
Shanghai, China  
Yokohama, Japan  
Suwon, South Korea  
Haiphong, Vietnam  
Bangkok, Thailand

Our global production sites



Mindelheim, Germany



São Paulo, Brazil



Bluffton, USA



Dalian, China



Pianezza, Italy



Bangalore, India





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#AssemblyPlants #Electromobility #Automation  
#AdditiveManufacturing #Digitalization  
#NewAndQualityCheckedUsedMachines #Service*



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