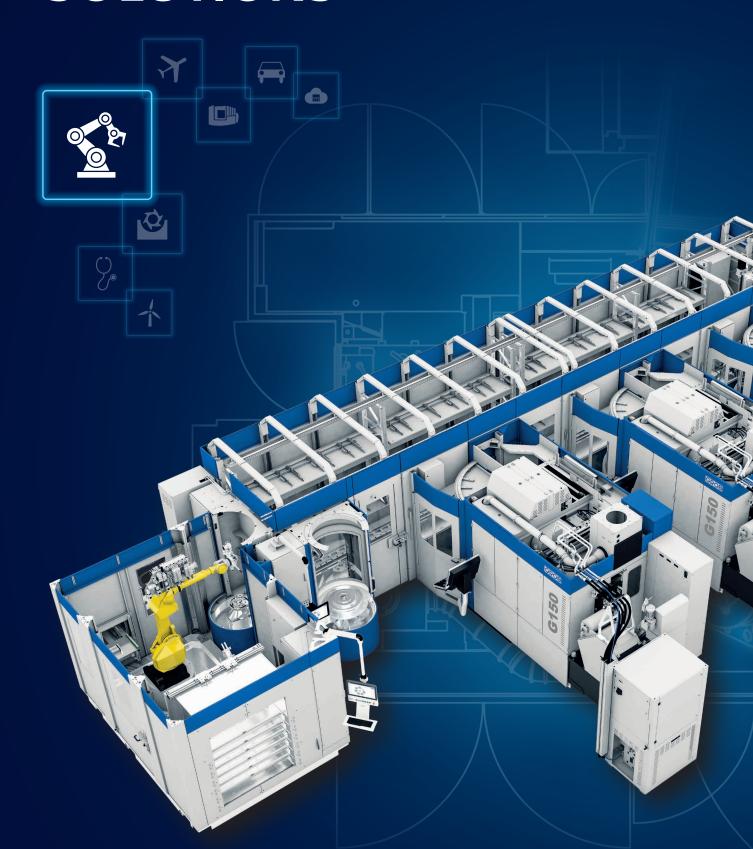




## AUTOMATION SOLUTIONS



### 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

### Concentrated competence worldwide

## INTELLIGENT TECHNOLOGY IS HUMAN

For generations, we at GROB have lived and experienced this principle by making customer requirements the focus of our work. The result is sophisticated technology creating more efficient production processes worldwide and delivering highest quality.



With a high degree of creativity and technical intuition, as well as the best engineering expertise, our developers have worked hard to earn the reputation of being a technology leader.



From pre-assembly to machine assembly to process commissioning – our employees demonstrate their expertise with optimally coordinated workflows.



With method development and structured problem solving, our employees in Engineering develop innovative concepts representing milestones for precision, dynamics, and reliability.



### COMMISSIONING

With simulation techniques and virtual commissioning, we achieve the highest adherence to delivery dates and product quality.



The high degree of vertical integration along the entire value creation chain, numerous machining technologies and our employees' distinctive specialist knowledge create the best conditions for state-of-the-art production.



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.



GROB automation solutions

## THE IDEAL SOLUTION FOR YOUR MACHINE

### **AUTOMATION SOLUTIONS**

### STANDARD AUTOMATION

PSS-R300

PSS-T300

PSS-R450 bis PSS-R1800

PSS-L450 bis PSS-L2700

GROB<sup>4</sup>Automation – PSS-R/PSS-L

### FLEXIBLE ROBOT CELLS

GRC-R12

GRC-R60 bis GRC-R240

GROB<sup>4</sup>Automation – GRC

### FLEXIBLE MANUFACTURING SYSTEMS

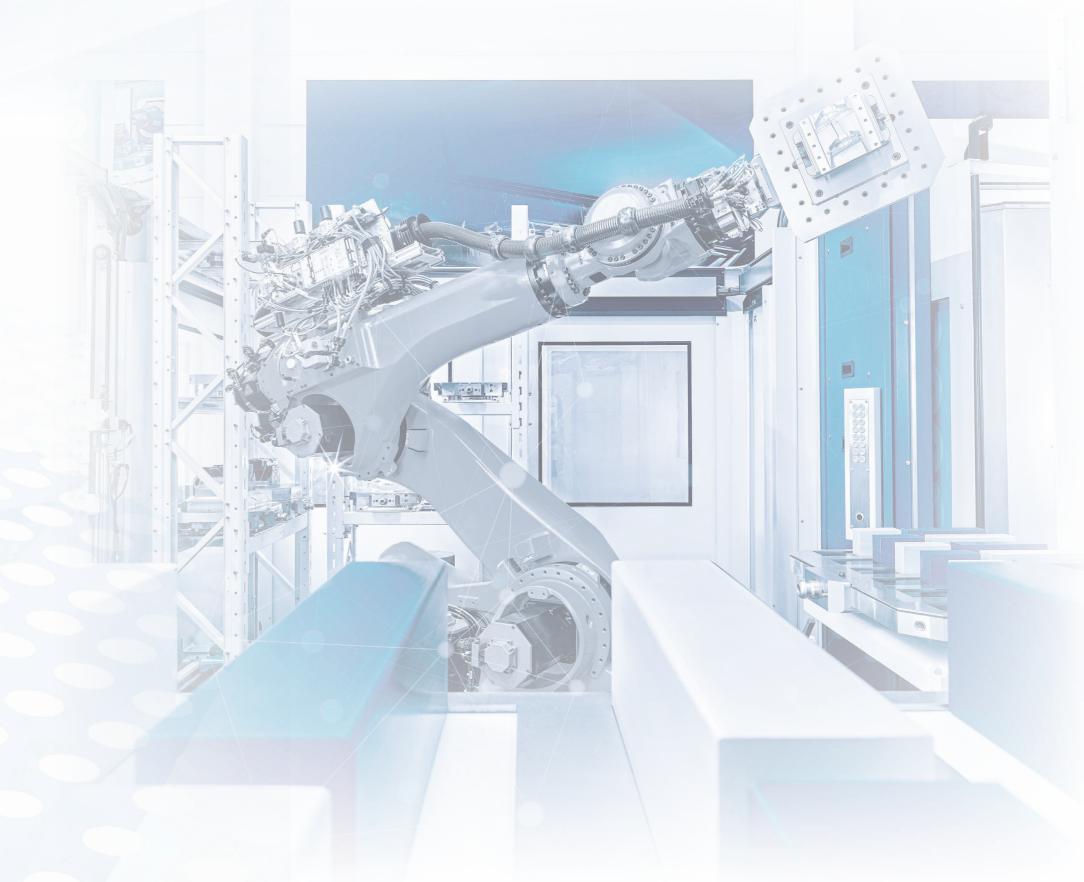
Flexible manufacturing systems

Autonomous mobile robot system

Turnkey production lines

### **DIGITALIZATION**

**SERVICE** 







# Smart & easy automation GROB'S STANDARD AUTOMATION

We will develop an automation concept with you that is perfectly customized to your requirements!

GROB's specifically developed automation solutions allow for both partially and fully automatic production of exceptional quality.

GROB delivers the ideal products for automated processes.

- Multiply output and productivity with GROB pallet storage systems
- Reduction of unit cost
- Ensure an efficient production process
- Setup during the machining operation
- Ergonomic machine operation
- Intuitive production planning on the control system
- Highly dynamic pallet changer systems
- Clamping hydraulics and high-precision setup stations
- Perfectly matched to the machining center



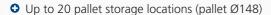
OUR PORTFOLIO

#PalletTowerStorageSystem #RotaryPalletStorageSystem #LinearPalletStorageSystem PSS-R300

### GROB ROTARY PALLET STORAGE SYSTEM

The GROB rotary pallet storage system expands the G-module to a flexible manufacturing cell and makes it possible to manufacture small and medium lot sizes and even individual orders with cost-effectiveness. This makes the PSS-R300 an ideal starter solution for automated and highly efficient manufacturing.

### FLEXIBLE STORAGE CONFIGURATION



• Other configurations upon request

• Up to 10 pallet storage locations (320x320 pallet)

### OPTIMAL ACCESS TO THE

### PALLET STORAGE SYSTEM • Ergonomic access to the

### INTUITIVE PALLET MANAGEMENT

 For a longer unmanned production period with a visual organization of production orders

O PSS-R300: 2,100x2,100 mm



**OPTIMIZED VIEW** 

## OVERVIEW OF SPECIFICATIONS AND DIMENSIONS

Available machines	G150	G350	G350a
Design variant	PSS-R300	PSS-R300	PSS-R300
Pallet size [mm]	ITS148/PC210/ HSK-A63/HSK-A100/ ITP200/MTS320/ GROB320/UPC320	ITS148/PC210/ UPC320/MTS398/ GROB400	MTS398/ GROB400
Pallet positions	20/20/20/ 20/10/ 10/10	20/20/ 10/8/ 8	8/8
Max. handling [kg]	40/80/30/ 150/250/ 300/250	40/80/ 250/250/ 300	250/ 300
Max. interference diameter [mm]	Ø 250/Ø 250/Ø 250/ Ø 250/Ø 450/ Ø 450/Ø 450	Ø 250/Ø 250/ Ø 450/Ø 500/ Ø 500	Ø 500/ Ø 500
Max. interference height [mm]	400	400	400

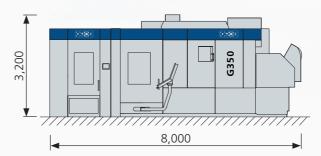


Fig.: G350 without pallet changer with PSS-R300

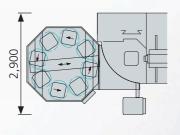


Fig.: G350 with PSS-R300



PSS-R300; 320 x 320



PSS-R300; ITP200

PALLET VARIANTS AND STORAGE CONFIGURATIONS

• Our variant PSS-R300 can be flexibly adapted to your requirements

Example illustration

• Into the work area and to the pallet storage locations

PSS-T300

Example illustration

### **GROB PALLET TOWER** STORAGE SYSTEM

The GROB pallet tower storage system expands the G-module to a flexible manufacturing cell. It is suitable for a single machine as well as for an interlinked system of up to two machines. The PSS-T300 enables the handling of round and square pallets in different sizes. Depending on customer requirements, the arrangement of storage positions can be freely selected.

### HANDLING OF DIFFERENT PALLET SIZES & MANUFACTURERS

- Use of commercially available automation pallets in various sizes possible
- Use of MTS, ITS, HSK, Schunk and GROB pallets

FLEXIBLE PALLET

**ARRANGEMENT** TO SUIT CUSTOMER **REQUIREMENTS** 

### INTUITIVE CELL OPERATION

• Permits a longer unmanned production period with visual organization of production orders



MODULAR STRUCTURE

• Individual connection of up to two machines and a second setup station

OPTIMAL ACCESS TO THE SETUP STATION

• Allows pallet loading and unloading during the machining operation with accessibility from above

### **OVERVIEW OF SPECIFICATIONS** AND DIMENSIONS

Available machines		G150			G350a	/G350	
Pallet size [mm]	□ 320	Ø 148	Ø 210	□ 320	□ 400	Ø 148	Ø 210
Max. pallet spaces	38	81	38	38	27	81	38
Max. handling [kg]  ▶ zero-point gripper/fork gripper		250*/300			250*	/300	
Max. interference diameter [mm]	Ø 550 Ø 550		550				
Max. interference height [mm]	500		500				

<sup>\*</sup>With EROWA RCS5 Gripper Link

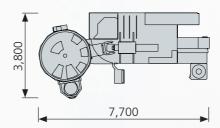


Fig.: G150 without pallet changer with PSS-T300

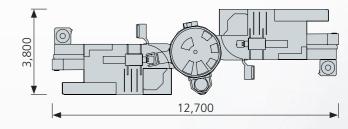


Fig.: 2x G150 without pallet changer with PSS-T300











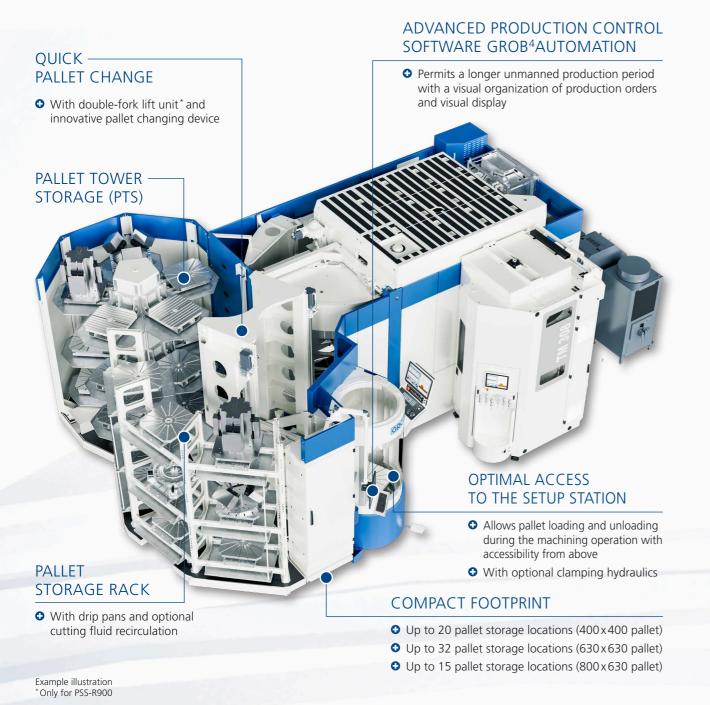
PALLET VARIAN	ITS*			
	0	<b>2</b>	€	4
Pallet	ITS148	MTS320	MTS400	GROB 320×320
Gripper	ITS gripper	RCS5	RCS5	Fork gripper

<sup>\*</sup>Other variants upon request

PSS-R450/PSS-R900/PSS-R1800

## GROB ROTARY PALLET STORAGE SYSTEM

The GROB rotary pallet storage system expands the G-module to a flexible production cell to offer automated, highly efficient production. Thanks to a further development of the PSS-R900 size, it is now possible to store up to 32 pallets of size 630 x 630 by means of an extension module. The new generation of the rotary pallet storage system can also be prepared for the connection of a GMR (GROB Mobile Robot) or a GRC (GROB Robot Cell). A two-machine connection is also possible, especially for customers with a very long pallet runtime.



PSS-R450/PSS-R900/PSS-R1800

## OVERVIEW OF SPECIFICATIONS

Available machines	G350a/G350/G350T	G550a/G550/G550T	G440/G640
Design variant	PSS-R450	PSS-R900	PSS-R1800
Pallet size [mm]	400 x 400	630x630	max. 800 x 630
Pallet positions	10/15/20	15/17/20/24/29/32	10/15
Max. handling [kg]	450	900	1,800
Max. interference diameter [mm]	Ø 600	Ø 900	Ø 1,050
Max. interference height [mm]	500	725	1,300
Connection of two machines	upon request	0	_
Pallet tower storage (PTS)	upon request	0	_

○ Option — Not available



PSS-R450/PSS-R900/PSS-R1800

## OVERVIEW OF DIMENSIONS

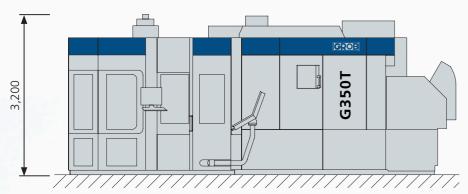


Fig.: G350T without pallet changer with PSS-R450

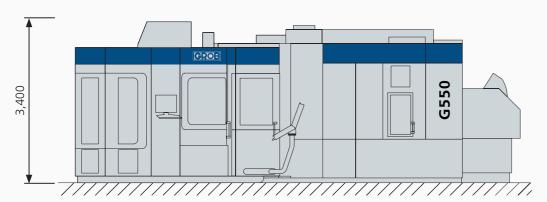


Fig.: G550 without pallet changer with PSS-R900

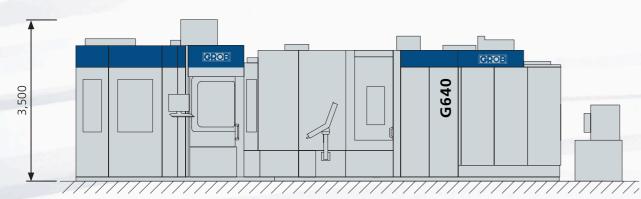
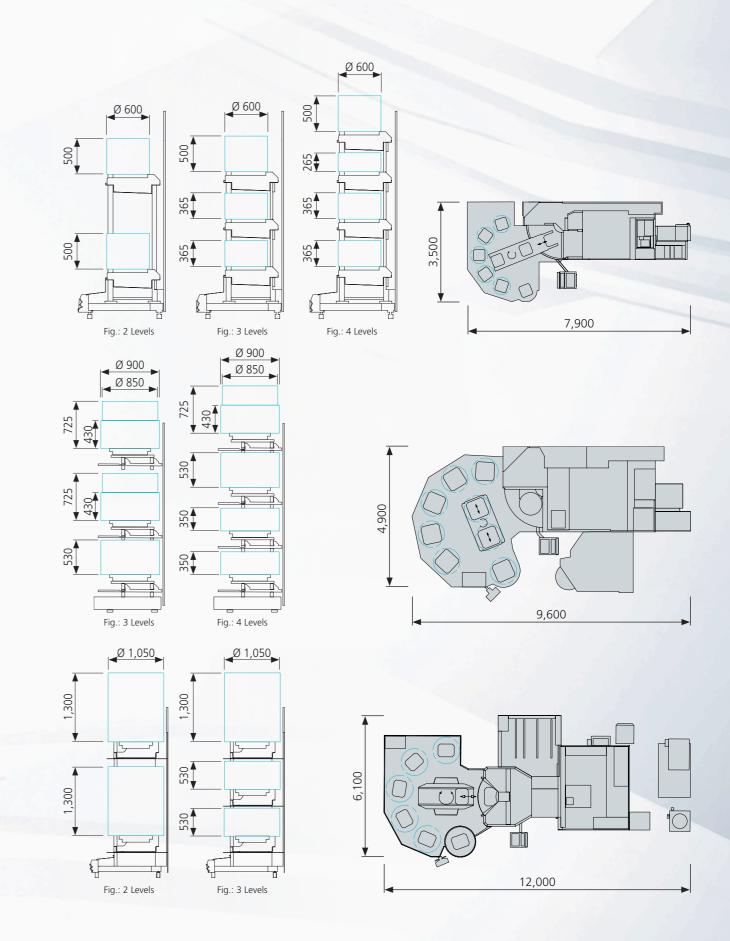


Fig.: G640 with pallet changer with PSS-R1800



### PSS-L450/PSS-L900/PSS-L1450/PSS-L1800/PSS-L2700

### **GROB LINEAR** PALLET STORAGE SYSTEM

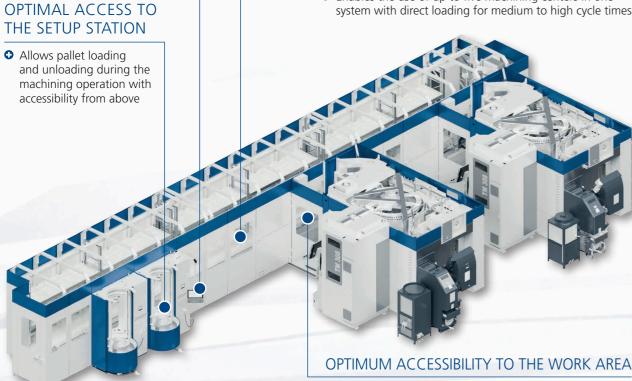
The linear pallet storage system is a GROB development that complements the product range with an automated, flexible manufacturing system for a wide variety of part machining. It is suitable for stand-alone machines and for interlinking identical machines. Depending on the customer requirement, two or three magazine levels and the number of required setup stations can be freely selected for pallets of the same type.

### ADVANCED PRODUCTION CONTROL SOFTWARE GROB<sup>4</sup>AUTOMATION

• Permits a longer unmanned production period with a visual organization of production orders and visual display

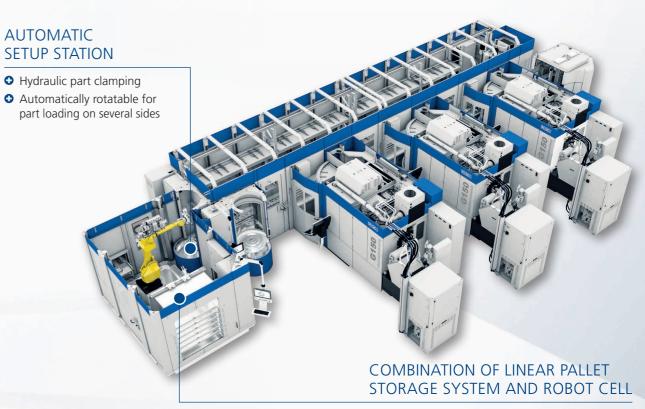
#### DYNAMIC PALLET CHANGING DEVICE

- Enables the use of up to five machining centers in one system with pallet changer for low cycle times
- Enables the use of up to five machining centers in one system with direct loading for medium to high cycle times



### **OVERVIEW OF SPECIFICATIONS**

Available machines	G150/G350a/ G350/G350T	G550a/ G550/G550T	G750/ G750T	G440/ G640	G640+/ G840
Design variant	PSS-L450	PSS-L900	PSS-L1450	PSS-L1800	PSS-L2700
Pallet size [mm]	320×320/ 400×400	630×630	800x800	630x500/ 800x630	800x630/ 1,000x800
Max. pallet spaces in the basic module	21	15	9	12	6/9
Max. pallet spaces in the extension module	24	18	12	15	8/12
Max. handling [kg]	450	900	1,450	1,800	2,700
Max. interference diameter [mm]	Ø 600	Ø 900	Ø 1,280	Ø 1,050	Ø 1,500
Max. interference height [mm]	500	785	930	1,300	1,500



- High flexibility by manual setup available
- High autonomy time by part handling and reduction of fixture costs

• Good visibility for inserting parts

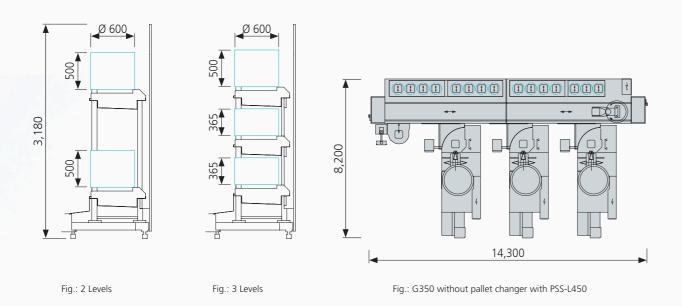
• Direct access to the work area/part

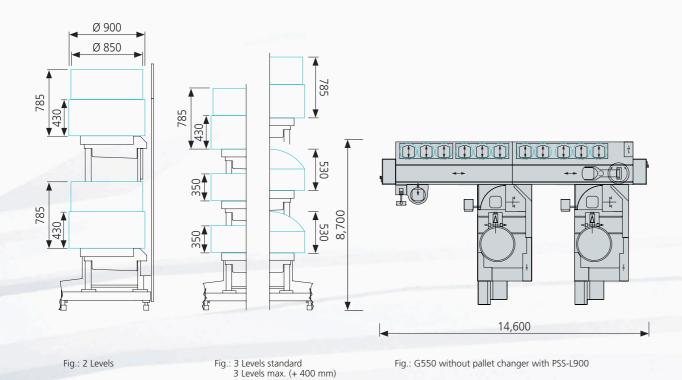
Example illustration

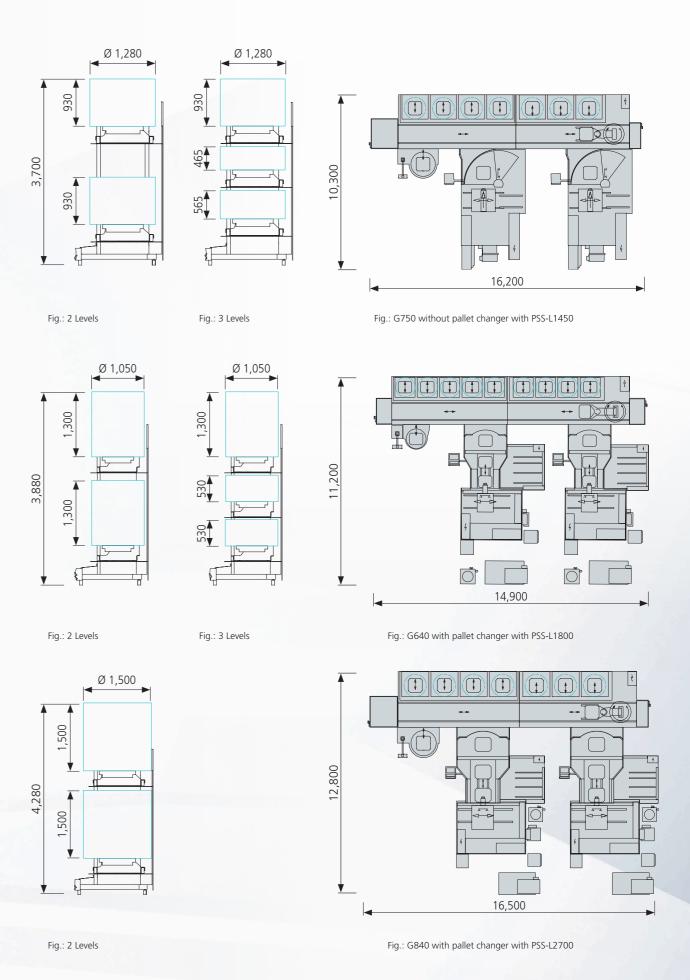
Illustration of customized manufacturing cell

### PSS-L450/PSS-L900/PSS-L1450/PSS-L1800/PSS-L2700

## OVERVIEW OF DIMENSIONS







#AutomationSolutions #ProcessControlSystem\_22

### PSS-R/PSS-L

## PROCESS CONTROL SYSTEM GROB<sup>4</sup>AUTOMATION

The process control system GROB<sup>4</sup>Automation rounds out the efficiency and performance of GROB automation systems. The operator is provided with intuitive and clear software for configuring, planning and monitoring jobs. To meet all your requirements while providing the best price/performance ratio, GROB<sup>4</sup>Automation can be customized and tailored to your requirements with many options.

### SYSTEM OVERVIEW

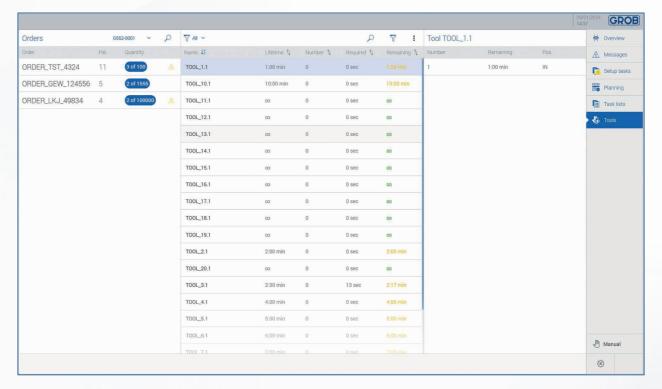


### **YOUR BENEFITS**

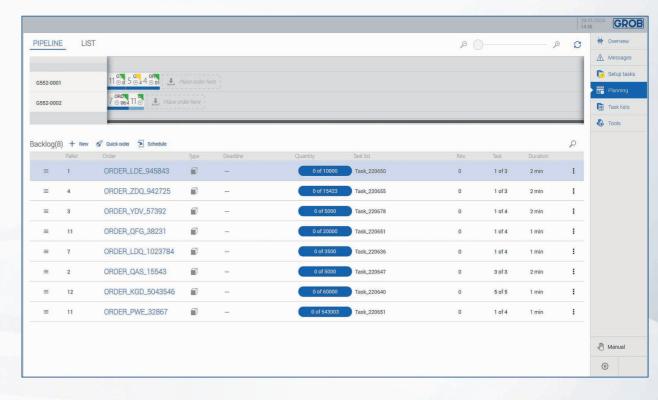
- ERP/MES connection (e.g., SAP)
- Central NC program distribution including EES support (SIEMENS)
- Tool requirement planning
- Clamping program editor
- Order-related parameter transfer
- Hardware support for additional HMIs and visualizations
- Analysis of utilization and machine data (GROB<sup>4</sup>Analyze)
- Support for unmanned manufacturing through push & email notifications for idle state (GROB4Line)



### TOOL REQUIREMENT PLANNING



### ORDER PLANNING







## Tailored to your requirements GROB ROBOT CELLS

We provide you with flexible robot cells tailored to your needs:

- Round, linear, or flexible configuration
- Part and/or pallet handling
- External peripheral device (e.g., cleaning, measuring, marking)
- Compact drawer feed system
- Automatic gripper change
- Automatic gripper jaw adjustment
- Automatic gripper finger and clamping jaw change
- NC-controlled long stroke clamp



OUR PORTFOLIO
#GRC-R12 #GRC-R60 to #GRC-R240

### GRC-R12

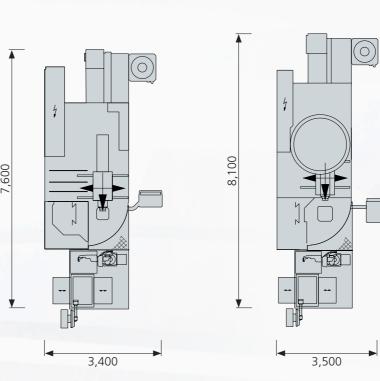
### **GROB ROBOT CELL**

Combined with our universal machining centers G150, G350a and G350, our GROB robot cell GRC-R12 offers maximum flexibility. A wide range of retrofitting options allows our robot cell to be perfectly adapted to your individual requirements.



### **OVERVIEW OF SPECIFICATIONS** AND DIMENSIONS

Available machines	G150/G350a/G350
Robot	FANUC M-10iD/12
Max. load [kg]	12
Robot range (radius) [mm]	1,441
Pneumatic 2-finger parallel gripper	
Single gripper: Max. part weights [kg]	5
Double gripper: Max. part weights [kg]	2x 2.5
Drawer feed unit	
Max. drawers	9
Max. load per drawer [kg]	100
Usable drawer size [mm]	600×400
Max. component height for 6 drawers [mm]	95
Max. component height for 9 drawers [mm]	60



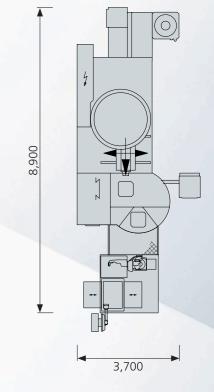


Fig.: G150 without pallet changer with GRC-R12 Fig.: G350 without pallet changer with GRC-R12

Fig.: G350 with pallet changer with GRC-R12

### GRC-R60/GRC-R150/GRC-R240

### **GROB ROBOT CELL**

The GROB robot cell combined with our G-modules offers maximum flexibility and customization for your manufacturing needs.

### **COMPACT DRAWER SYSTEM**

• For loading and unloading of the parts during machining operations thanks to a compact drawer feed system

### ADVANCED PRODUCTION CONTROL SOFTWARE GROB<sup>4</sup>AUTOMATION

• For a longer unmanned production period with a visual organization of production orders

### 6-AXIS INDUSTRIAL ROBOT

 By FANUC (standard), KUKA and ABB (optional) with quick coupling for gripper change and pallet handling

### SETUP STATION

**ACCESSORIES** 

 Deburring station; ultrasonic cleaning;

measuring; labeling;

gripper jaw adjustment; pre-marking and torquing station

- Setup of special components
- Loading and unloading of clamping fixtures

## ENTIRE SYSTEM ON ONE PLATFORM

• For quick installation and short commissioning

## OVERVIEW OF SPECIFICATIONS AND DIMENSIONS

Available machines	G150/G350/G350a/G550/G550a				
Design variant	GRC-R60	GRC-R150	GRC-R240		
Max. load [kg]	70	165	270		
Nominal robot load max. [kg]	2,050	2,655	2,655		
Part handling	•	•	•		
Pallet handling	_	•*	•		
Drawer feed unit					
Max. drawers	9				
Max. load per drawer [kg]	400				
Usable drawer size [mm]	1,660×600				
Max. component height for 9 drawers [mm]	110				

\*Depends on pallet size • Option — Not available

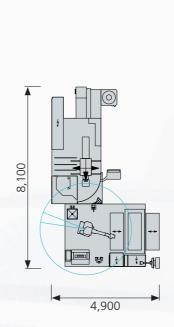


Fig.: G150 without pallet changer with GRC-R60

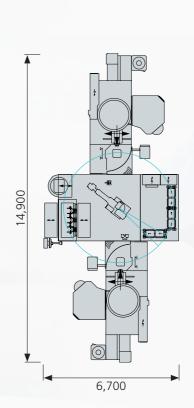


Fig.: 2x G350 with pallet changer with GRC-R240

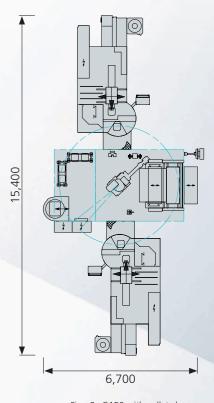
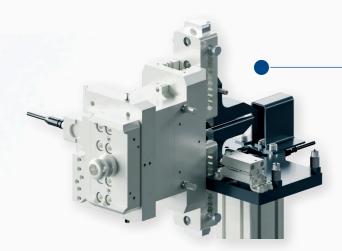


Fig.: 2x G150 with pallet changer with GRC-R150

Example illustration

### Tailored to your needs

## BENEFIT FROM OUR DIVERSE EQUIPMENT SOLUTIONS



### AUTOMATIC GRIPPER JAW ADJUSTMENT

- Gripper opening 20-270 mm
- Use of standard components
- No restriction of the clamping force
- Can be retrofitted
- Manual adjustment possible



- Cleaning within the robot cell
- Reduction of downstream & external process steps
- Ultrasonic and compressed air cleaning





### **FEEDING SYSTEMS**

- Robust drawer system for rough and finished parts
- Setup station for manual clamping on machine pallets
- Setup station for the insertion of clamping fixtures
- Loading/unloading during the machining operation at the drawer system and setup station possible
- Other interfaces upon request

### **CUSTOMIZED GRIPPER SOLUTIONS**

- 2-finger parallel gripper, vacuum gripper, magnetic gripper
- Single or double grippers
- Automatic gripper change
- Integrated gripper deposits
- Integrated blow-off function

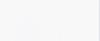




### **MEASUREMENT**

- Measuring within the robot cell
- Coordinate measuring machine





- Labeling within the robot cell
- Scoring or needle marker
- Laser marking

LABELING



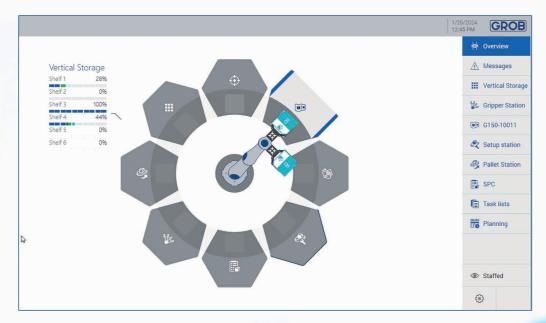


### GRC-R12 / GRC-R60 / GRC-R150 / GRC-R240

### PROCESS CONTROL SYSTEM GROB<sup>4</sup>AUTOMATION

The process control system GROB<sup>4</sup>Automation rounds out the efficiency and performance of GROB automation systems. The operator is provided with intuitive and clear software for configuring, planning and monitoring jobs. To meet all your requirements while providing the best price/performance ratio, GROB4Automation can be customized and tailored to your requirements with many options.

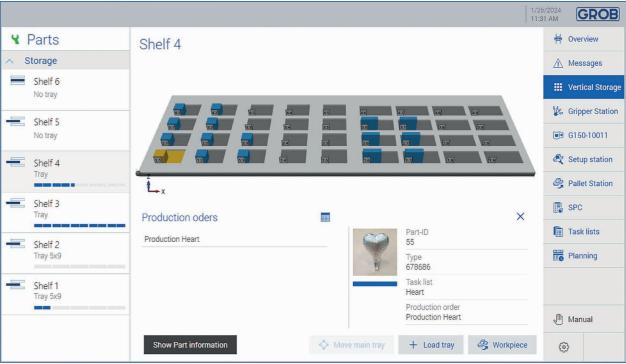
### SYSTEM OVERVIEW



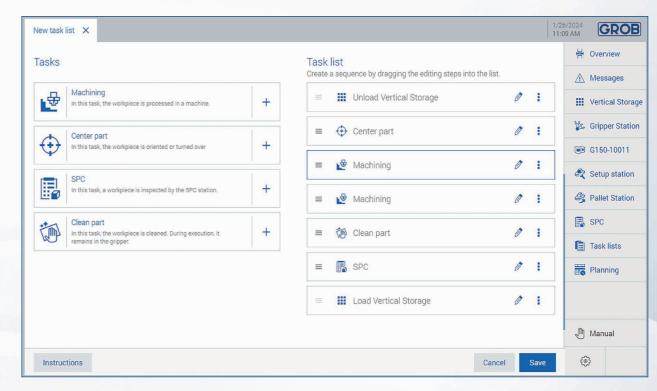
### **YOUR BENEFITS**

- Fast order creation for manufacturing single pieces as well as large series
- Unmanned processing of your manufacturing orders over several days
- Rapid scope for action in the event of shifts in manufacturing priorities
- Easy operation of your robot cell no robot knowledge required no teaching necessary
- Time-based order planning with resource verification
- Part feed during machining with a flexible drawer system
- Fast change times thanks to "part/pallet preparing"
- Multiple OP10/OP20/OP30 operation steps possible with automated turning
- Integration of the machine axes made possible via overhead loading and unloading
- Automated error handling to avoid production loss in unmanned operation (e.g., tool breakage)

PART MANAGEMENT



#### ORDER CREATION







All value added from a single source

## FLEXIBLE MANUFACTURING SYSTEMS

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 PORTFOLIO

#FlexibleManufacturingSystems #TurnkeyManufacturingLines

### Flexible manufacturing system

### **COMPLETE PROCESS CHAIN** FROM A SINGLE SOURCE

The flexible manufacturing system allows for automating both the tool flow and the part flow. This illustration shows a version of a flexible manufacturing system with a central tool magazine. The portal can interchange tools in the disk-type tool magazines of several machines. The part flow is managed by a pallet changing device for pallet handling, to which three setup stations, one high-rack storage system with 90 pallet storage locations and three machining centers are connected.

- External periphery can be connected
- Flexible installation variants; configurable to your requirements
- Expandable modular system
- Combination of rough part storage and pallet storage system

### **OPTIMAL ACCESS** TO THE SETUP STATION

• Allows pallet loading and unloading during the machining operation with accessibility from above

• Increase productivity thanks to simultaneous machining of several part types

### PALLET STORAGE SYSTEM

• Can be used with 90 pallet storage locations and a pallet changing device

### **CENTRAL** TOOL MAGAZINE

• Stores up to 1,000 tools

### **INTERLINKED MACHINING CENTERS**

### **AUTOMATIC TOOL SUPPLY**

• From a central tool magazine with tool resources check

### For efficient and intelligent material movement

### **AUTONOMOUS MOBILE ROBOT SYSTEM**

No more manual transport and long distances! Our autonomous mobile robot system, also called the GMR (GROB Mobile Robot), revolutionizes your internal movement of material. Rely on fully automated, precise and reliable transport solutions to take your manufacturing processes to the next level.

Our GMR is the ideal addition for modern and efficient production. Equipped with advanced sensor technology, it effortlessly navigates through your production hall without relying on human guidance. This means less downtime and optimal utilization of your resources.

### ADVANTAGES THROUGH THE USE OF PALLET CARRIERS

- The GMR can be used for other tasks (e.g., chip container transport) after pallet carriers have been removed
- Different pallet types possible by using specific pallet carriers
- Flexible layout design independent of location



### **DECENTRALIZED** PALLET DEPOSIT LOCATION

- Flexible expansion of pallet storage locations
- Intermediate deposit in front of the setup stations

### ADVANTAGES THROUGH THE USE OF ROTARY PALLET STORAGE SYSTEMS

- Quick pallet change with double-fork lift unit
- Pallet buffer places in front of each machine
- Unrestricted use of rotary pallet storage systems possible directly on the machine

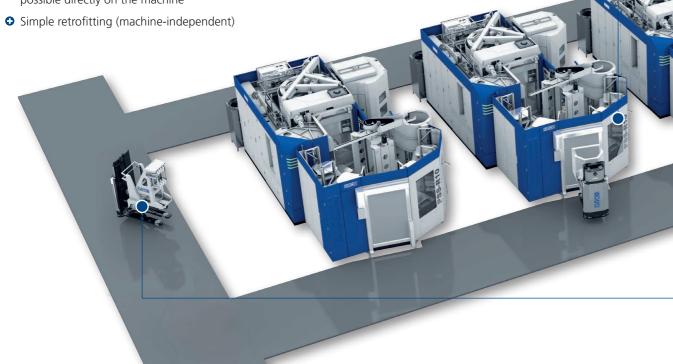


- Flexible expansion with additional setup stations
- Installation independent of location
- Maintenance of clamping fixtures and setup of parts

### ADVANTAGES THROUGH THE USE OF TOOL RACKS

- High tool weights possible
- Loading of up to 16 tools simultaneously
- Unrestricted use of additional magazine possible
- High tool capacity directly on the machine
- Common tool identification systems can be integrated
- Transport of tool racks and tool trolleys





### Turn-key manufacturing line

## ALL VALUE ADDED FROM A SINGLE SOURCE

The customer plant illustrated has a highly efficient GROB manufacturing line for machining transmission cases and clutch housings. In this turn-key project, GROB designed and built the machining centers, and also the complete automation system. The linear gantry can be designed as an I- or H-loader. It has one or two vertical axes per carriage.

### HIGHLY DYNAMIC GROB LINEAR GANTRIES

• Designed as I- and H-loaders

### TRANSPORTATION AND AUTOMATION COMPONENTS

 Stations automated with part conveyors – if needed, with partspecific transport pallets

### MACHINING CENTERS

• 1- and 2-spindle machining centers with 4 or 5 axes

### **GROB ROBOT CELL**

- Modular design provides a concept tailored to your needs
- Various storage options allow the provision of rough parts parallel to main machining times

### **GROB ROBOT CELL**

- Integration of rework processes such as deburring, washing and marking of the parts
- Automatic component unloading
- Leak test: Manual or automatic leak test machines





## 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>AUTOMATION –
  Intuitive production control software for unmanned operation
- 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>TDX transfer tool data automatically



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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### **EUROPE**

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Steyr, Austria











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Bangalore, India



### GROB-WERKE GmbH & Co. KG

Pioneers in designing and building highly innovative production and automation systems for almost 100 years.

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