

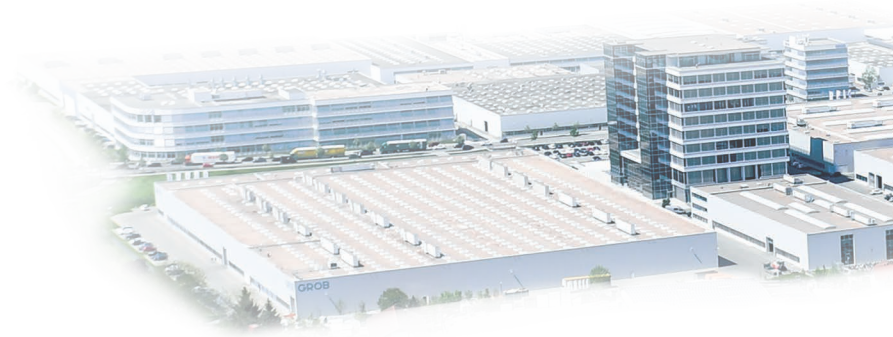
The background of the slide is a complex technical diagram in shades of light blue. It features concentric circles, radial lines, and various geometric shapes, suggesting a mechanical or engineering context. Several small blue arrows are scattered throughout the diagram, pointing in different directions. The overall aesthetic is clean and professional.

PRODUCT OVERVIEW

01

FOUNDED IN 1926

COMPANY GROB-WERKE MINDELHEIM



For 95 years now, **GROB, the family-owned company**, has been a leading pioneer in **designing and building highly innovative production and automation systems**. The continuous development of in-house expertise, the quest for **perfection** and the **high level of vertical integration** in our **plants all over the world** ensure the outstanding **quality** of our products and technologies. The focus of our sustainable business is our employees and our customers, for whom we will always maintain the family-like character of our enterprise as well as our financial independence. This group concept that we live and experience allows us to respond to changes in the market with great speed and agility, and to bring about **innovative solutions** for the automotive industry and for other industrial sectors as well.

8,300 EMPLOYEES WORLDWIDE



1.5 BILLION OUTPUT (FORECAST 2022/23)

14 SALES AND SERVICE BRANCHES WORLDWIDE

6 PLANTS

14 PRODUCTION HALLS, 6 OFFICE COMPLEXES

24/7 SUPPORT

02

INDUSTRY RANGE

AEROSPACE, MECHANICAL ENGINEERING,
DIE AND MOLD INDUSTRIES, AUTOMOTIVE,
MEDICAL INDUSTRY, ENERGY TECHNOLOGY

Whether aerospace, mechanical engineering, die and mold industries, automotive, medical or energy technologies – our 4- and 5-axis universal machining centers cover an **impressively broad range of possible applications** and provide the optimum solution **for almost any material**. In addition, our universal machining centers are designed for automation solutions and, depending on the customer's requirements, are also available as mill-turn machining centers.

 **Aerospace**



e. g., turbine blade,
structural component

 **Mechanical
engineering**



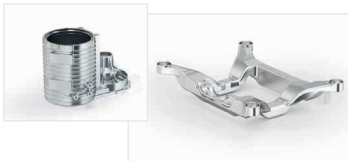
e. g., gear wheel,
vise

 **Die and mold
industries**



e. g., mold insert,
bottle mold

 **Automotive**



e. g., stator housing,
subframe

 **Medical
technology**



e. g., scalpel holder,
bone insert

 **Energy
technology**



e. g., Francis turbine,
radial compressor

03

UNIVERSAL MACHINING CENTERS ACCESS SERIES

The G350a and G550a 5-axis universal machining centers are an impressively **smart** and **affordable introduction** to the unique GROB technology, providing almost limitless application possibilities to customers from demanding sectors. **Total reliability** and **high productivity** in renowned GROB quality is guaranteed, laying the foundation for possible **series production**.

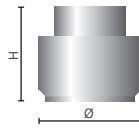
The highlight of the access series is its **short amortization time**, which allows GROB to set new standards in machine tool construction. These universal machining centers, then, offer the ideal solution for automobile suppliers and customers from general mechanical engineering, contract manufacture, toolmaking, and also the pump and fitting sectors.



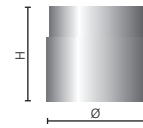
G350a

G550a

Working travels along the X-/Y-/Z-axis [mm]	600/770/805	800/950/1,020
Max. speed along the X-/Y-/Z-axis [m/min]	60/42/60	60/42/60
Max. accelerations along the X-/Y-/Z-axis [m/s ²]	5/3/10	6/4/8
Tool interface	HSK-A63	from HSK-A63 to HSK-A100
Speed n_{max} [rpm]	from 12,000 to 18,000	from 9,000 to 18,000
Chip-to-chip time [s]	4.5	from 4.8 to 5.9
Table load [kg]	400	700
Pallet changer	✓	✓



Max. part size:
Ø 720 ⁽¹⁾/H 665 ⁽¹⁾



Max. part size:
Ø 900 ⁽¹⁾/H 855 ⁽¹⁾

⁽¹⁾ Size indications correspond to 4-axis-machining

04

UNIVERSAL MACHINING CENTERS 4-AXIS SERIES

Thanks to their **modular machine design** and **high option variety**, the G440, G640 and G840 **4-axis machining centers** can be individually configured to meet specific customer requirements. Like the 5-axis universal machining center from GROB, the 4-axis machine series impresses with its **compact design, high productivity and maximum stability** and, in addition to the automotive sector, is also ideally suited for the mechanical engineering, bus & truck, rail, agricultural and construction machinery and fluid technology segments.

The new 4-axis machine is distinguished from the market environment **by a high loading weight, high feed forces and accelerations** of the main axes.



Working travels along the X-/Y-/Z-axis [mm]

Max. speed along the X-/Y-/Z-axis [m/min]

Max. accelerations along the X-/Y-/Z-axis [m/s²]

Tool interface*

Speed n_{max} [rpm]

Chip-to-chip time [s]

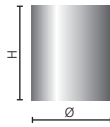
Table load [kg] (standard/option)

Pallet changer

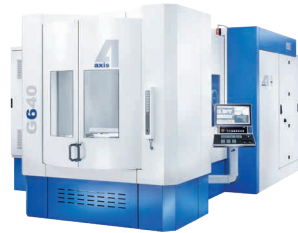


G440

800/800/800
70/60/60 (80/70/70) ⁽²⁾
6/6.5/6 (6.5/8/8.8) ⁽²⁾
from HSK-A63/SK40 ⁽⁴⁾ to HSK-A100
from 12,000 to 30,000
from 2.8 to 3.4
850/-
✓

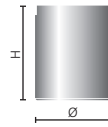


Max. part size:
Ø 800/H 1,000



G640

1,050/800/1,050	1,050/1,000/1,050 ⁽¹⁾
70/60/60 (80/70/70) ⁽²⁾	60/60/60 (70/70/70) ⁽³⁾
6/6.5/6 (6.5/8/8.2) ⁽²⁾	4.5/5.5/6 (4.5/6.5/8.2) ⁽³⁾
from HSK-A63/SK40 ⁽⁴⁾ to HSK-A100/SK50	
from 7,200 to 30,000	
from 3.0 to 3.9	
1,000/1,500	
✓	

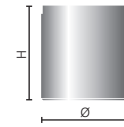


Max. part size:
Ø 1,050/H 1,300



G840

1,400 (1,500) ⁽⁵⁾ /1,200/1,400	1,400 (1,500) ⁽⁵⁾ /1,400/1,400 ⁽¹⁾
50/50/50	
4.5/5.5/4.5	
HSK-A100/SK50 ⁽⁴⁾	
from 6,000 to 13,000	
from 5.0 to 5.2	
1,700/2,200	
✓	



Max. part size:
Ø 1,400/H 1,500

⁽¹⁾Optional work area expansion
⁽²⁾Dynamic package
⁽³⁾Extended interference circle with flattened diameter
⁽⁴⁾DIN ISO 7388 Form A /U/J (45°)
⁽⁵⁾Tool interface for short hollow taper tools ISO 12164/7124 taper shank (spindles with BIG PLUS®-interface)

05.1

UNIVERSAL MACHINING CENTERS 5-AXIS SERIES

GROB universal machining centers offer you almost limitless possibilities for the machining of parts from the most diverse materials. Thanks to their **compact design, high productivity** and **maximum stability**, these machining centers guarantee **effective manufacturing** and can be adapted to suit individual requirements due to **extensive configuration options**.

They are perfectly suited to the 5-sided machining of parts with chamber holes and beveled surfaces, as well as forms and flow profiles. Their unique machine concept makes them ideally equipped for state-of-the-art automation technology.



Working travels along the X-/Y-/Z-axis [mm]

Max. speed along the X-/Y-/Z-axis [m/min]

Max. accelerations along the X-/Y-/Z-axis [m/s²]

Tool interface

Speed n_{max} [rpm]

Chip-to-chip time [s]

Table load [kg]

Pallet changer



G150

450/670/665

50/40/60

5/6/8

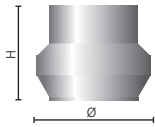
from HSK-A63 to HSK-E40

from 12,000 to 42,000

2.6

250

✓



Max. part size:
Ø 580⁽¹⁾/H 480⁽¹⁾



G350

600/855/750

70/45/90

5/4/7

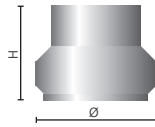
HSK-A63

from 12,000 to 30,000

2.7

400

✓



Max. part size:
Ø 720⁽¹⁾/H 565⁽¹⁾



G550

800/1,020/970

65/50/80

6/4.5/8

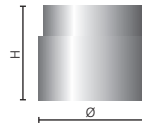
from HSK-A63 to HSK-A100

from 6,000 to 30,000

from 2.8 to 4.8

800

✓



Max. part size:
Ø 900⁽¹⁾/H 785⁽¹⁾



G750

1,000/1,100/1,175

60/50/75

4.5/3.0/7.5

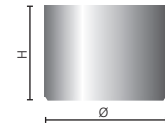
from HSK-A63 to HSK-A100

from 6,000 to 30,000

from 3.3 to 3.8

1.500

✓



Max. part size:
Ø 1,280⁽¹⁾/H 1,005⁽¹⁾

⁽¹⁾ Size indications correspond to 4-axis-machining

05.2

UNIVERSAL MACHINING CENTERS 5-AXIS UNIVERSAL MILL-TURN MACHINING CENTERS

Thanks to **extensive configuration options**, the G350T, G550T and G750T universal mill-turn machining centers can be ideally matched to your requirements. GROB machining centers achieve complete machining of the part by milling and turning in a single clamping, **thereby saving time, space and investment costs** in your production facility.

A compact design, maximum mill-turn performance, high visibility and optimized work area access are just some of the outstanding machine features that make GROB a dependable partner for your production facility. Thanks to extensive configuration options, our machining centers can be customized to meet your requirements perfectly.



Working travels along the X-/Y-/Z-axis [mm]

Max. speed along the X-/Y-/Z-axis [m/min]

Max. accelerations along the X-/Y-/Z-axis [m/s²]

Tool interface ⁽²⁾

Speed n_{max} [rpm]

Chip-to-chip time [s]

Table load [kg]

Pallet changer



G350T

600/855/750

70/45/90

4.5/4/6.5

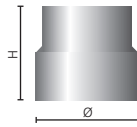
HSK-A/T63

16,000

2.7

350

-



Max. part size:
Ø 620⁽¹⁾/H 571.5⁽¹⁾



G550T

800/1,020/970

65/50/80

6/4.5/7.5

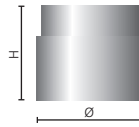
from HSK-A/T63 to HSK-A/T63

from 10,000 to 16,000

from 3.0 to 3.7

750

-



Max. part size:
Ø 900⁽¹⁾/H 785⁽¹⁾



G750T

1,000/1,100/1,175

60/50/75

4.0/3.3/6.5

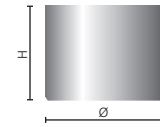
from HSK-A/T63 to HSK-A/T63

from 10,000 to 16,000

3.8

1,500

-



Max. part size:
Ø 1,280⁽¹⁾/H 1,005⁽¹⁾

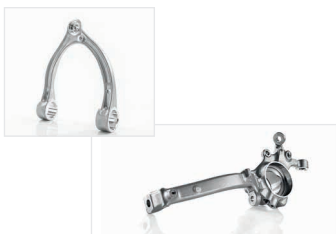
⁽¹⁾ Size indications correspond to 4-axis-machining

06

MACHINING TECHNOLOGY G-SERIES

Profound know-how and use of the latest technologies make GROB a recognized expert in the system business. For perfect implementation of customer specifications, GROB manufactures **complete system solutions** in the form of **customizable manufacturing lines** of the **highest quality**. These lines consist primarily of modular machining centers and special-purpose machines that are interlinked via the **latest automation solutions**.

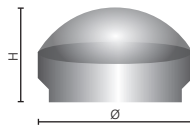
From planning to engineering through to ready-to-use delivery and commissioning, GROB offers all core expertise from a single source. This deep vertical integration allows dynamic and **customer-specific adjustments** to capacities and guarantees an **outstanding degree of reliability**.



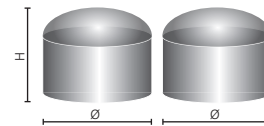
G300

G320

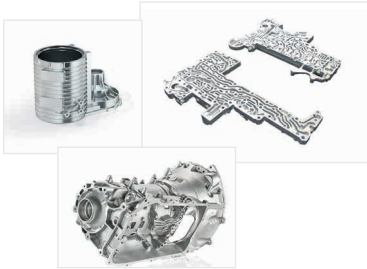
Working travels along the X-/Y-/Z-axis [mm]	600/770/810	650/850/870
Max. speed along the X-/Y-/Z-axis [m/min]	95/45/100	95/60/120
Max. accelerations along the X-/Y-/Z-axis [m/s ²]	7.5/4/15	7.5/6/20.5
Tool interface	from HSK-A63 to HSK-A100	from HSK-A63 to HSK-A100
Speed n_{max} [rpm]	from 6,000 to 18,000	from 6,000 to 18,000
Chip-to-chip time [s]	from 2.3 to 2.8	from 2.0 to 2.5
Table load [kg]	400	2 x 325
Pallet changer	✓	✓



Max. part size:
Ø 720/H 440



Max. part size:
2 x Ø 698/H 575



G500



G520

Working travels along the X-/Y-/Z-axis [mm]

800/950/905

750/1,000/870

Max. speed along the X-/Y-/Z-axis [m/min]

90/50/100

95/70/120

Max. accelerations along the X-/Y-/Z-axis [m/s²]

9/4.5/15

7.5/5.5/20.5

Tool interface

from HSK-A63 to HSK-A100

from HSK-A63 to HSK-A100

Speed n_{max} [rpm]

from 6,000 to 18,000

from 6,000 to 18,000

Chip-to-chip time [s]

from 2.6 to 3.0

from 2.0 to 2.5

Table load [kg]

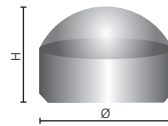
525

2x625

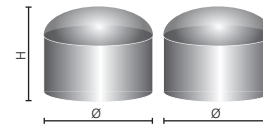
Pallet changer

✓

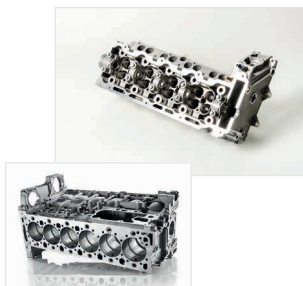
✓



Max. part size:
Ø 900/H 650



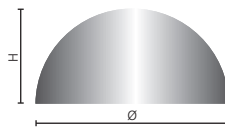
Max. part size:
2 x Ø 798/H 700



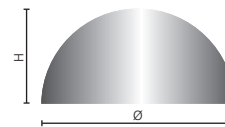
G700

G720

Working travels along the X-/Y-/Z-axis [mm]	1,250/920/1,160	690/920/1,160
Max. speed along the X-/Y-/Z-axis [m/min]	60/50/60	50/50/60
Max. accelerations along the X-/Y-/Z-axis [m/s ²]	5/5/6	5/5/7
Tool interface	HSK-A100	HSK-A100
Speed n_{max} [rpm]	from 6,000 to 10,000	from 6,000 to 10,000
Chip-to-chip time [s]	from 4.8 to 6.0	6.0
Table load [kg]	950	950
Pallet changer	–	–



Max. part size:
Ø 1,350/H 665



Max. part size:
Ø 1,350/H 665

07

MACHINING TECHNOLOGY F-SERIES

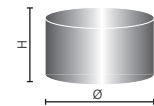
The G600F, G500F, G520F, G700F and G720F machining centers are designed specifically for **machining frame structure parts** and **battery housings**. The **optimized chip transport capabilities** and **high machine dynamics** make these space-saving machining centers the ideal solution for dry, MQL and wet machining of parts for the automotive industry.

No matter whether stand-alone or linked to other machines: GROB machining centers offer a convincing and perfect basis for the automated production of your frame structure and chassis parts.



G600F

Working travels along the X-/Y-/Z-axis [mm]	1,730/1,265/1,100 ⁽¹⁾
Max. speed along the X-/Y-/Z-axis [m/min]	95/60/50
Max. accelerations along the X-/Y-/Z-axis [m/s ²]	9.5/7/4.5
Tool interface	HSK-A63
Speed n _{max} [rpm]	18,000
Chip-to-chip time [s]	3.3
Table load [kg]	1,550
Pallet changer	✓



Max. part size:
Ø 1,750⁽²⁾/H 1,480⁽²⁾



G500F

1,550/875/790

70 / 50 / 90

6.5 / 4.5 / 11

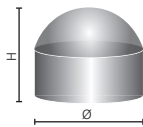
HSK-A63

from 12,000 to 18,000

2.6

640

✓



Max. part size:
Ø 1,120⁽²⁾/H 710⁽²⁾



G520F

1,450/1,200/1,035

80/50/100

8/4/14

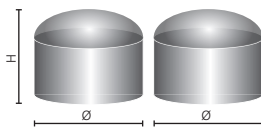
from HSK-A63 to HSK-A100

from 10,000 to 18,000

from 2.7 to 3.2

2 x 750

–



Max. part size:
2 x Ø 1,200/H 680



G700F

1,450/990/1,035

60/75/100

6.5/5.5/14

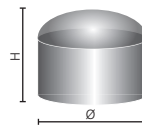
from HSK-A63 to HSK-A100

from 10,000 to 18,000

from 2.9 to 3.4

750

✓



Max. part size:
Ø 1,500/H 900



G720F

1,450/1,200/1,035

80/50/100

8/4/14

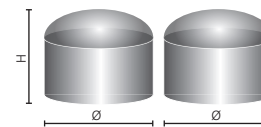
from HSK-A63 to HSK-A100

from 10,000 to 18,000

from 2.9 to 3.4

2 x 750

–

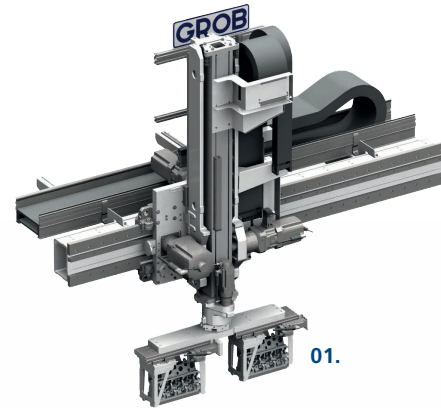


Max. part size:
2 x Ø 1,500/H 900

⁽¹⁾ Different axis configuration
⁽²⁾ Larger radius of action on request

08.1

AUTOMATION SOLUTIONS TOP / FRONT LOADING AND FLEXIBLE MANUFACTURING SYSTEM WITH ROBOT



01.

01. Cartesian linear gantry with telescope

02. Swiveling changer



02.



03.

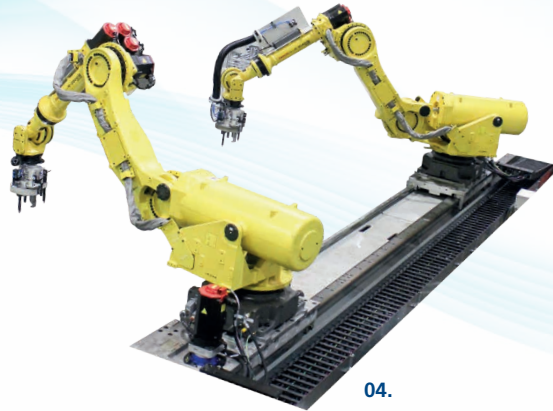


05.

03. GROB Robot Cell (GRC)

04. Flying robot

05. Robot/linear unit



04.

08.2

AUTOMATION SOLUTIONS
PALLET CHANGER SYSTEMS, STORAGE
SYSTEMS, ADDITIONAL TOOL MAGAZINE



01. Pallet Changer

02. Rotary Pallet Storage System (PSS-R)

03. Pallet Tower Storage System (PSS-T)





04.

04. Linear Pallet Storage System (PSS-L)



03.



05.

05. Additional Tool Magazine (TM)

09

OTHER GROB PRODUCTS

ELECTROMOBILITY, ASSEMBLY, ADDITIVE MANUFACTURING,
GROB-NET⁴INDUSTRY, TURN-KEY MANUFACTURING LINES

01. ELECTROMOBILITY

Leading edge through expertise and innovative technologies: GROB is the right partner for the series production of your hybrid and electric drives.

02. ASSEMBLY

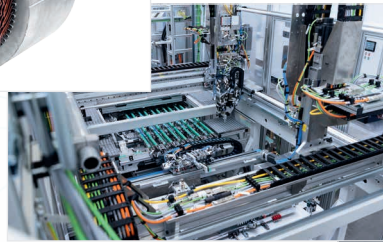
A reliable concept for optimum results: GROB's customer-specific assembly systems are the ideal solution for challenging tasks.

03. ADDITIVE MANUFACTURING

Thanks to the powder-free manufacturing process, the GMP300 by GROB enables safe and fast production of near-net-shape components.

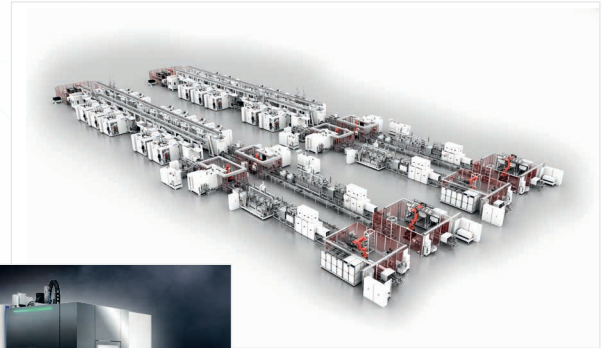
04. GROB-NET⁴INDUSTRY

Perfectly networked and digitalized: GROB-NET⁴Industry digital applications ensure cross-plant transparency in your production process.



05. TURN-KEY MANUFACTURING LINES

Immediate use with optimized productivity: The tailored turn-key projects offer complete systems to suit your particular requirements.



10

SERVICE RANGE

MATERIAL SUPPLY, MACHINE ANALYSIS,
24/7 SUPPORT, TECHNICAL ACADEMY

From **GROB's own 24-hour service** to an **extensive range of spare parts and training programs** through to **professional machine maintenance and analysis**: The GROB service spectrum provides a comprehensive range of services available **all over the world**, thanks to our global production facilities and service branches.

01. MATERIAL SUPPLY

GROB⁴Care, ball screws, motorized spindle service, repair service, spare parts supply, GROB special tools



02. MACHINE ANALYSIS

Retrofit, condition monitoring, Condition analysis, repair service, preventive maintenance, quality-checked used machines

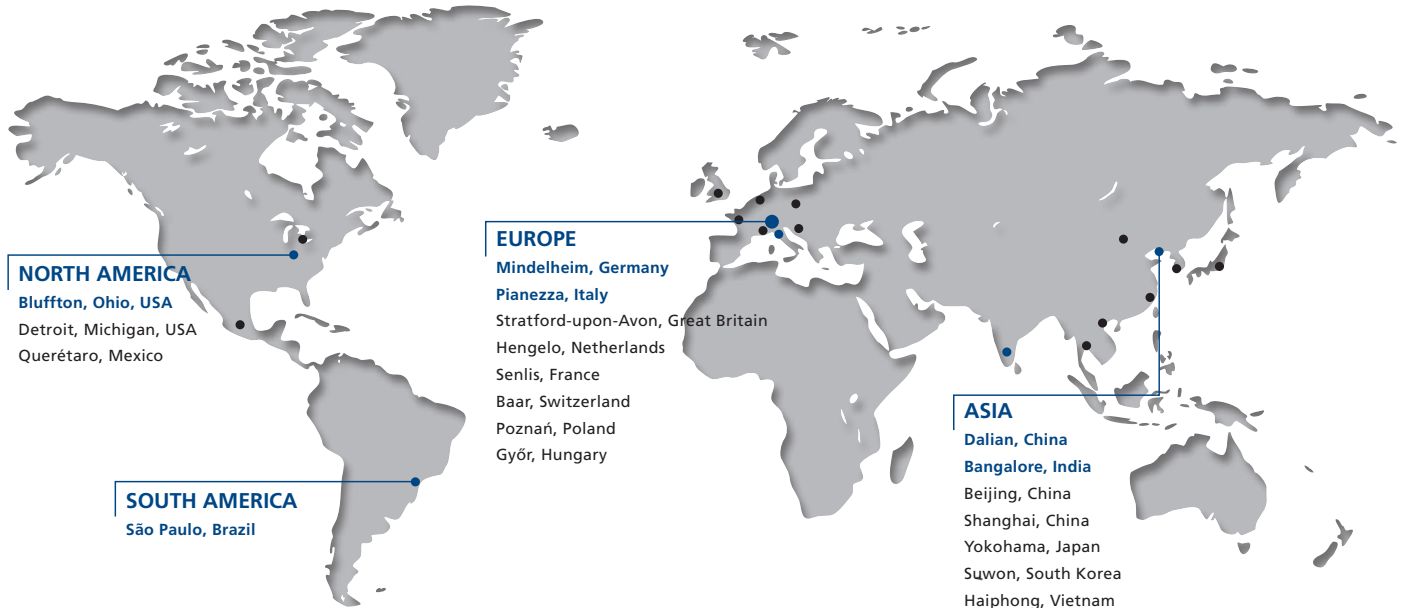


03. 24/7 SUPPORT

Service hotline, premium service, express service

04. TECHNICAL ACADEMY

System solutions, universal machining centers, assembly technology



NORTH AMERICA
Bluffton, Ohio, USA
Detroit, Michigan, USA
Querétaro, Mexico

SOUTH AMERICA
São Paulo, Brazil

EUROPE
Mindelheim, Germany
Pianezza, Italy
Stratford-upon-Avon, Great Britain
Hengelo, Netherlands
Senlis, France
Baar, Switzerland
Poznań, Poland
Győr, Hungary

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