

Automation in 3 variants

NEW

IH-SYSTEMS: IH 30, IH 60, IH 100







GETTING STARTED WITH AUTOMATION WITH THE HERMLE IH 30, IH 60 AND IH 100 SYSTEMS

IH systems are systems for automatic pallet and workpiece changing up to 100 kg. They are designed for use with machining centres C 20, C 22, C 30, C 40 and C 42.

The system is placed in front of the machine and is able to work in automatic mode. For manual work on the machine, the entire system can easily be moved to the left side by means of electrical motors, thereby providing complete access to the machining centre for setup work or for single-part production.

The compact IH system inserts pallets with unmachined workpieces and removes pallets with machined workpieces. The system allows automatic operation with minimal or no operator intervention around the clock.

Of course IH systems can also be retrofitted to machining centres that already have been installed.

YOUR ADVANTAGES:

- For automation of small and medium-sized series
- Complete solution from a single source (machining centres and their automation - supplied, installed and supported by Hermle)
- Manual operation of the machining centre is possible with no restrictions
- Several different orders can be processed in operation without an operator
- Fast installation and start-up
- Only a small installation surface is required



IH 30

Compact pallet storage

Handling weight	30 kg
Drive	Servo motors
Number of pallet pockets	50
Max. pallet built up D x W x H	240 x 190 x 220 mm
Standard pallet size	194 x 98 mm
Workpiece carrier option	ITS 148, HSK 100, C8 ...
Loading	in parallel to production, 2 loading doors with 2 pallet pockets each
Control	with integrated operator and display screen
Organisation	via pallet management, which is integrated in the machine control
Connection to the machine	from the front / motor-driven travelling carriage
System dimensions D x W x H	1740 x 1700 x 2400 mm



IH 60 -System . Parking position

IH 60

Compact pallet storage

Handling weight	60 kg
Drive	Servoc motors
Number of pallet pockets	24 (16 with H = 380 mm)
Max. pallet built up D x W x H	320 x 320 x 270 / 380 mm
Standard pallet size	320 x 320 mm
Workpiece carrier option	Erowa, Partool, Schunk, Stark, ...
Loading	in parallel to production, 2 loading doors with 1 pallet pocket each
Control	with integrated operator and display screen
Organisation	via pallet management, which is integrated in the machine control
Connection to the machine	from the front / motor-driven travelling carriage
System dimensions D x W x H	1975 x 2060 x 2400 mm

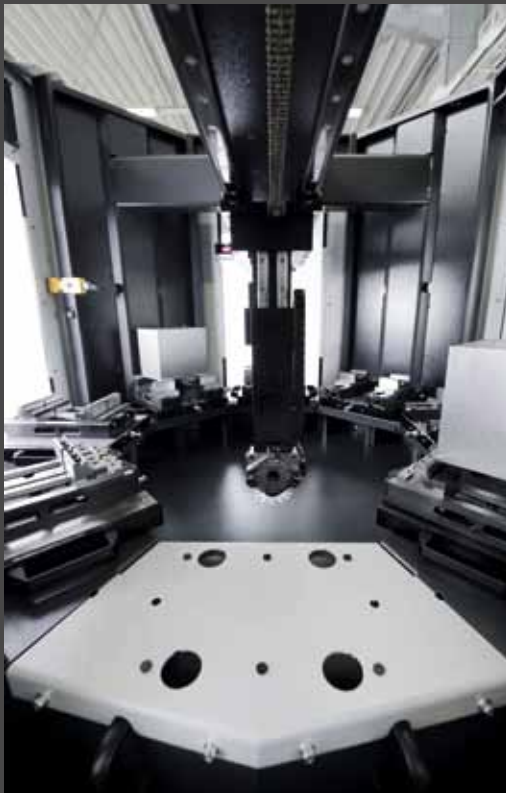


IH 60 -System . Automatic mode

IH 100

Compact circular pallet storage

Handling weight	100 kg
Drive	Servo motors
Number of pallet pockets	6 / 8
Max. pallet built up D x W x H	400 x 400 x 400 mm
Standard pallet size	400 x 400 mm / 320 x 320 mm
Workpiece carrier option	Erowa, Partool, Schunk, Stark, SK 50, HSK 100, ...
Loading	via loading door
Control	system-internal PLC
Organisation	via pallet management, which is integrated in the machine control
Connection to the machine	from the front / motor-driven travelling carriage
System dimensions D x W x H	1700 x 1700 x 1800 mm





IH 100-System . Automatic mode



IH 100-System . Parking position

IH-Systems

REQUIRED HERMLE MACHINE OPTIONS FOR THE USE OF AN IH SYSTEM:

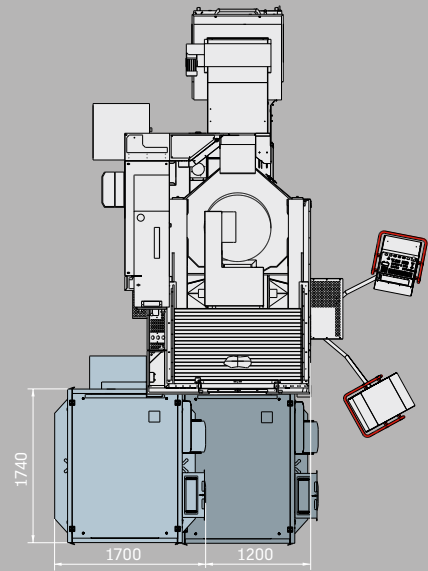
- Automatic cabin door
- Handling interface
- Rotary feedthrough for swivelling rotary table
- Media connection for rigid clamping table
- Pallet clamping system mounted on table or integrated
- Control pallet clamping system
- Check to detect presence of pallet on clamping system

PRACTICAL HERMLE MACHINE OPTIONS

- Air blowing device
- Modification of interior lining and bed flushing

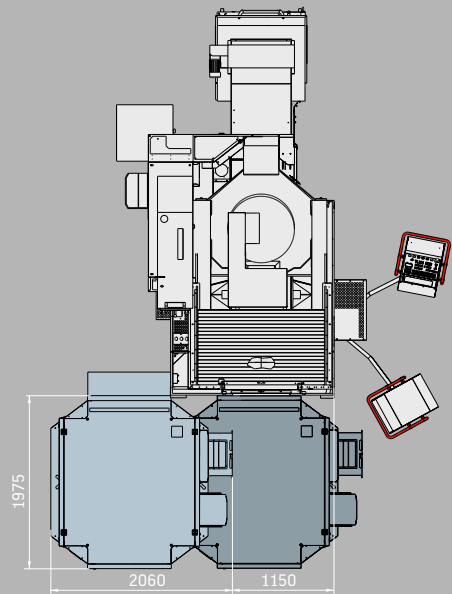
All systems supplied by Hermle are accompanied by an EC declaration of conformity and carry the CE marking.

Illustrations depict a C 30.
For detailed machine dimensions, please
refer to the respective machine brochure.



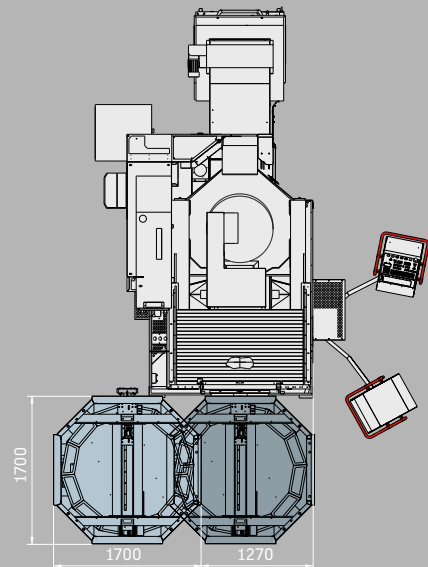
IH 30-SYSTEM

height 2400 mm



IH 60-SYSTEM

height 2400 mm



IH 100-SYSTEM

height 1800 mm

Pallet storage system	IH 30	IH 60	IH 100
Handling weight	30 kg	60 kg	100 kg
Max. pallet built up D x W x H	240 x 190 x 220 mm	320 x 320 x 270/380 mm	400 x 400 x 400 mm 320 x 320 x 400 mm
Standard pallet size	194 x 98 mm	320 x 320 mm	400 x 400 mm
Workpiece carrier	ITS 148, HSK 100, C8	Erowa, Partool, Schunk, Stark (max. 320 x 320 mm)	Erowa, Partool, Stark, Schunk, SK 50, HSK 100
Number of pallet pockets	50	24 (16 for H = 380 mm)	6/8
Loading	In parallel to production 2 loading doors with 2 pallet pockets each	In parallel to production 2 loading doors with 1 pallet pockets each	Via loading door
Control	With integrated operator and display screen	With integrated operator and display screen	Hermle pallet management in the machine control
Organisation	Via pallet management, which is integrated in the machine control		
Connection to the machine	From the front / motor-driven travelling carriage via two-hand circuit		
System dimensions D x W x H	1740 x 1700 x 2400 mm	1975 x 2060 x 2400 mm	1700 x 1700 x 1800 mm
System weight, empty	approx. 1100 kg	approx. 1500 kg	approx. 900 kg

Pallet storage options

- IH 60 with workpiece structure of up to 380 mm
 - Loading of IH system also in parking position
 - Pallets
 - Workpiece clamping technology
 - Project-related storage layout.
- In case of smaller workpiece / pallet dimensions, the number of pallets can be increased accordingly



IH 100-System . Parking position

Everything. From a single source.

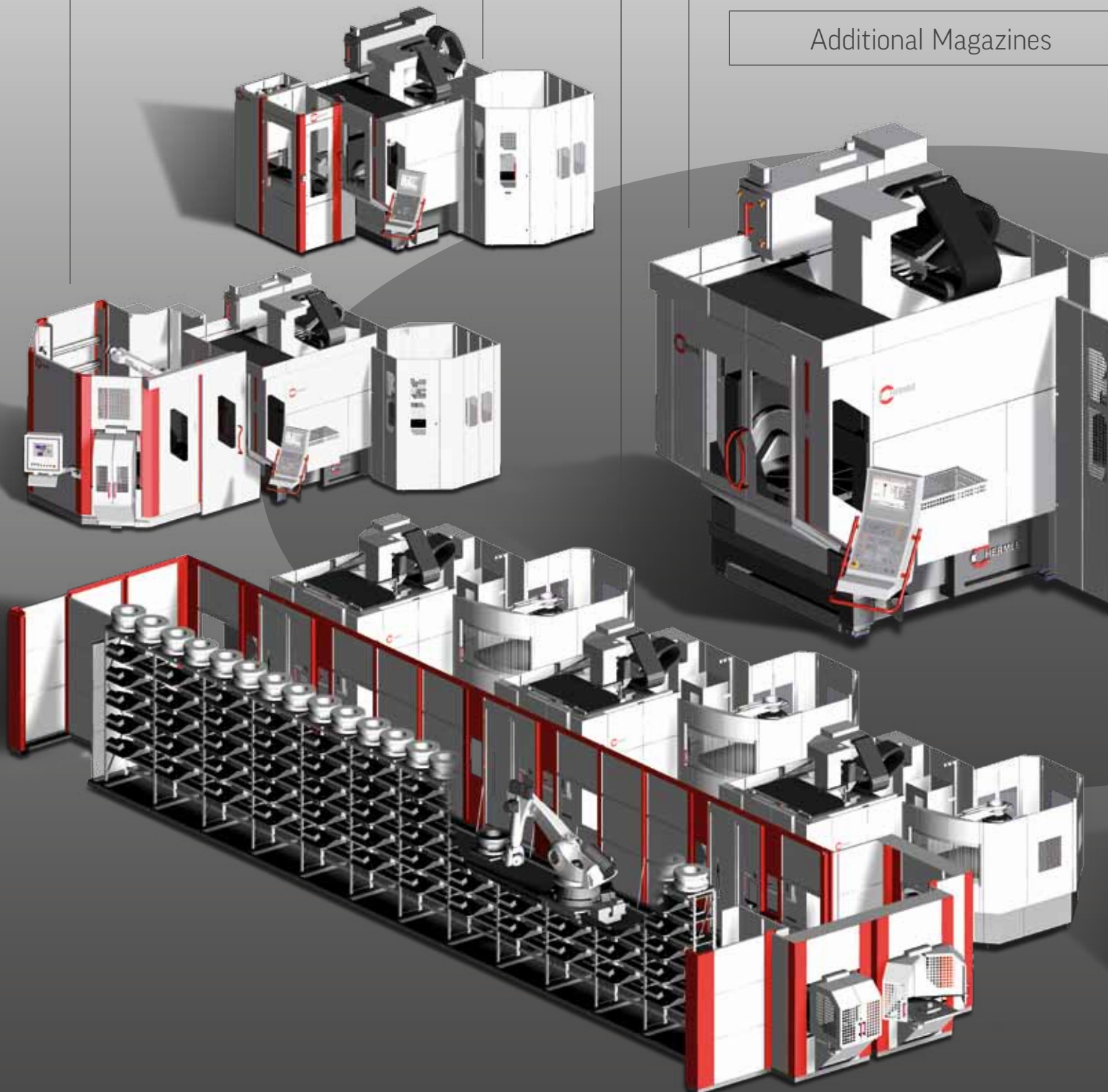
Linear Robot System

Robot System RS 1

Robot System RS 05

Machining Centres

Additional Magazines



Machining centres and automation solutions from a single source with assured system competence in planning and installation as well as in-service:

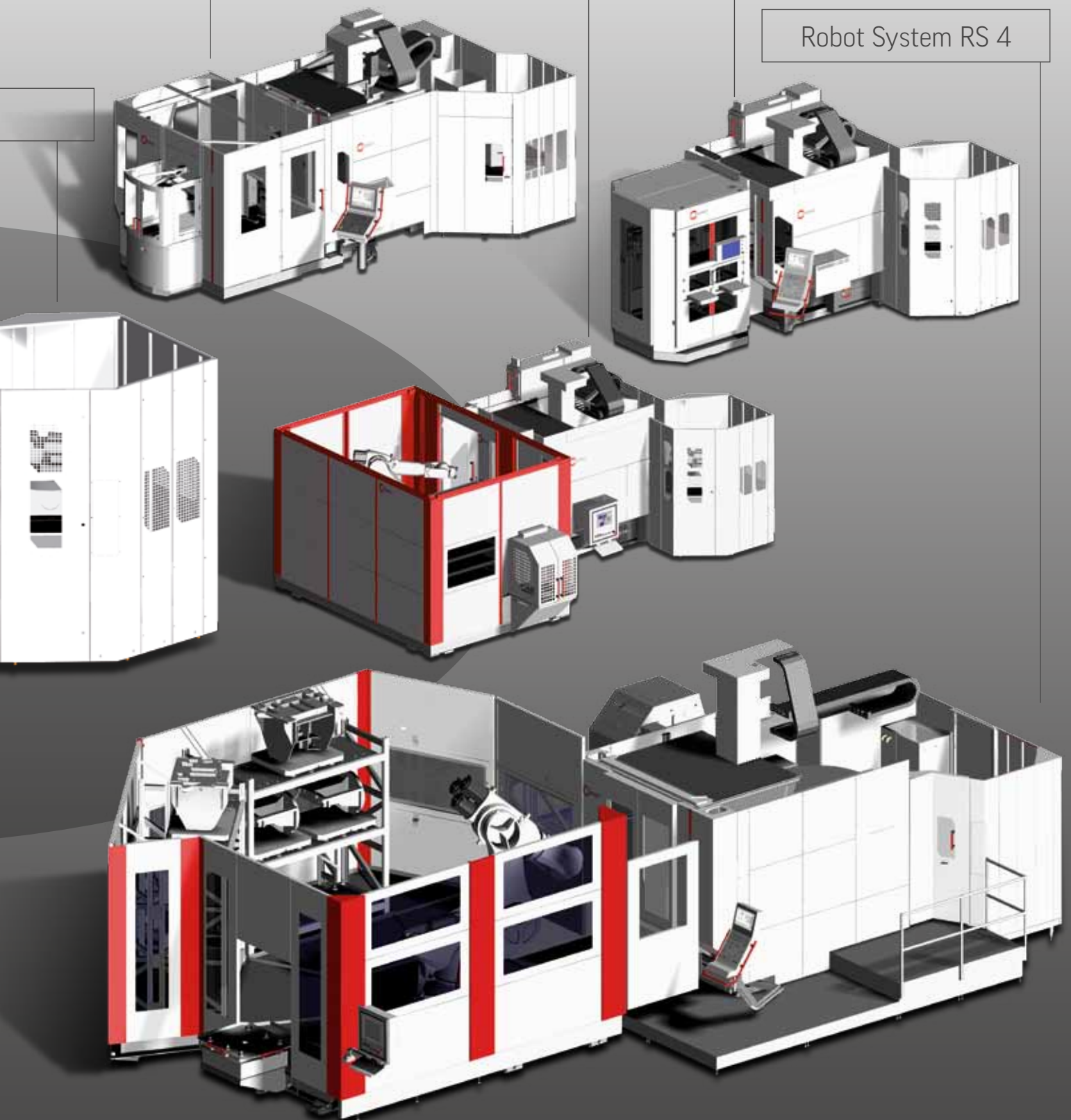
- 3-, 4- and 5-axis machining centres, where even table assemblies, the main spindles and the entire sheet metal enclosure are manufactured and assembled in-house
- Automation solutions from pallet changer systems, pallet storage units, auxiliary tool magazines, flexible production systems to customer-specific turnkey solutions

Pallet Changers

Robot Systems RS 2/3

IH-Systems

Robot System RS 4



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The machining examples used in this leaflet are published with the explicit approval of our friendly customers. The information in this leaflet contains only general descriptions or performance characteristics which in a real application may not always match the description or which may change as the result of further development of the products. The performance features desired shall only be binding if they have been expressly agreed upon in writing at the time of the contract.

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