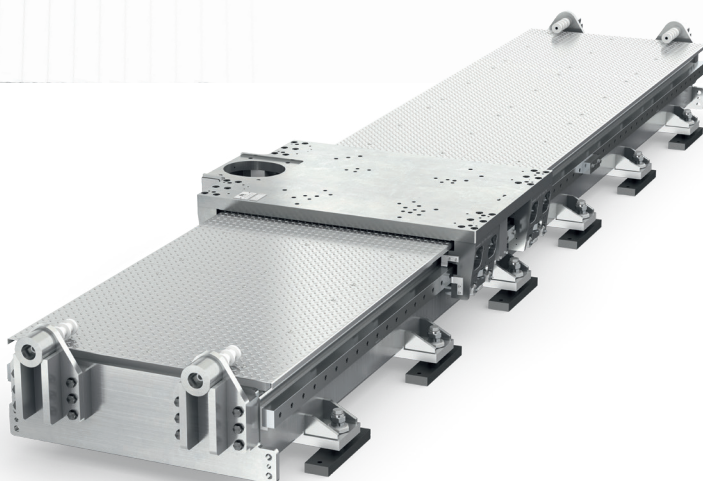
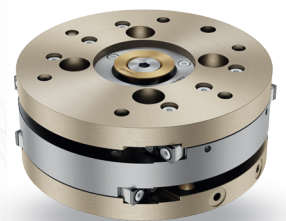
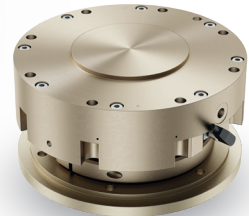
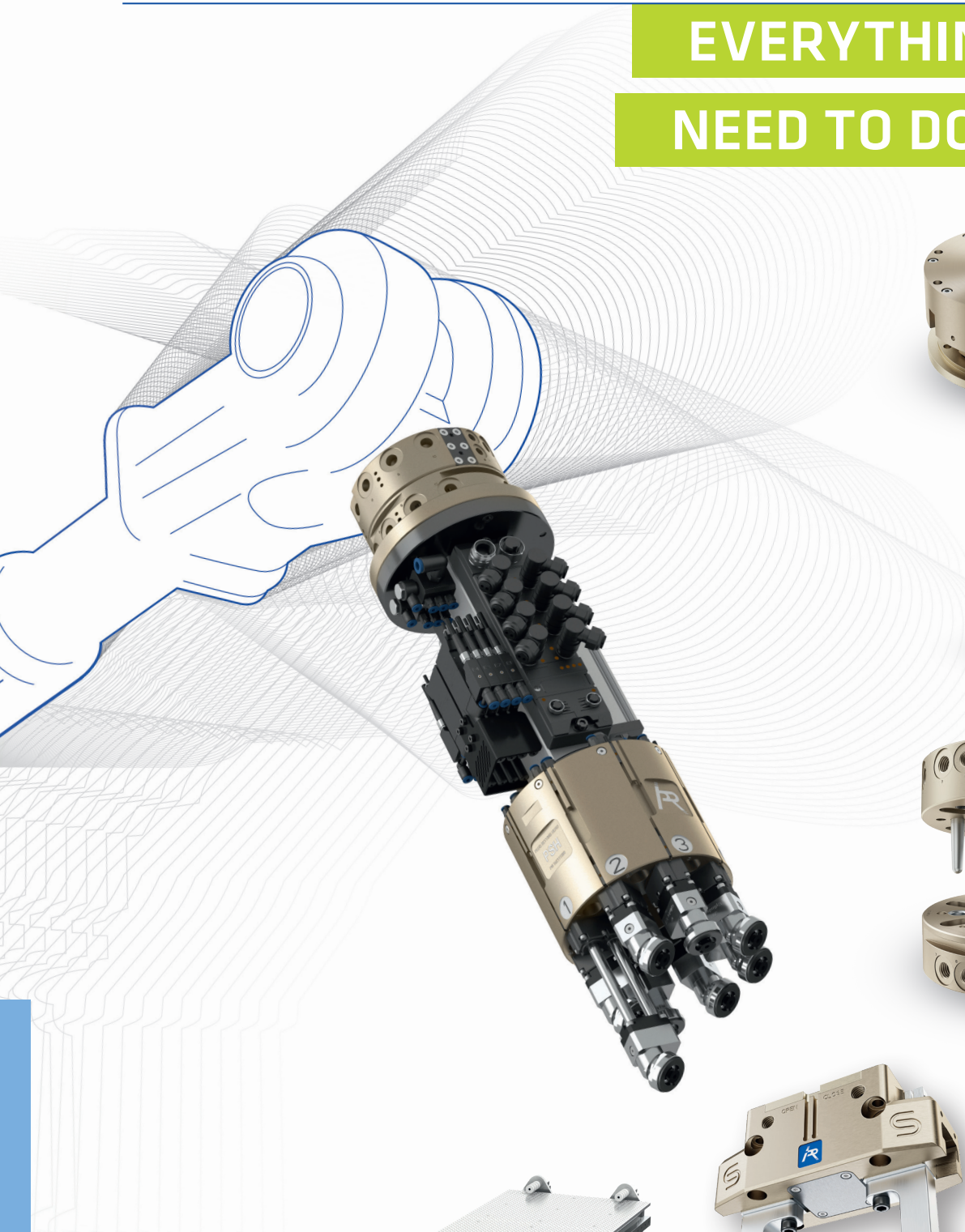


PRODUCT OVERVIEW

EVERYTHING ROBOTS

NEED TO DO THEIR JOB



IPR offers everything robots need to do their job

Discover our extensive portfolio of peripherals for robots: smarter, more flexible and more universal



Innovation meets top quality

IPR Intelligente Peripherien für Roboter GmbH is a leader in the development and manufacturing of products related to industrial robots and offers an extensive product range with innovative systems and components for assembly and handling technology.

Our product range of series-produced automation modules includes a variety of grippers and tool changers, compensation modules, load limiters and 7th axes for robots. Within the individual product types, differently graded sizes are available for all load ranges. The excellent quality of our product range ensures high availability as well as smooth use in the production process.

Load limiters

Mechanical device with included sensors to prevent damage in case of overload and collision, optional with internal cable routing.

Compensation modules

Compensation of positioning errors in x, y and z direction as well as compensation of angle misalignment.

Tool changers

Quick change of tools and grippers on the robot or gantry. Simple assembly and high flexibility due to short changeover times.

Grippers

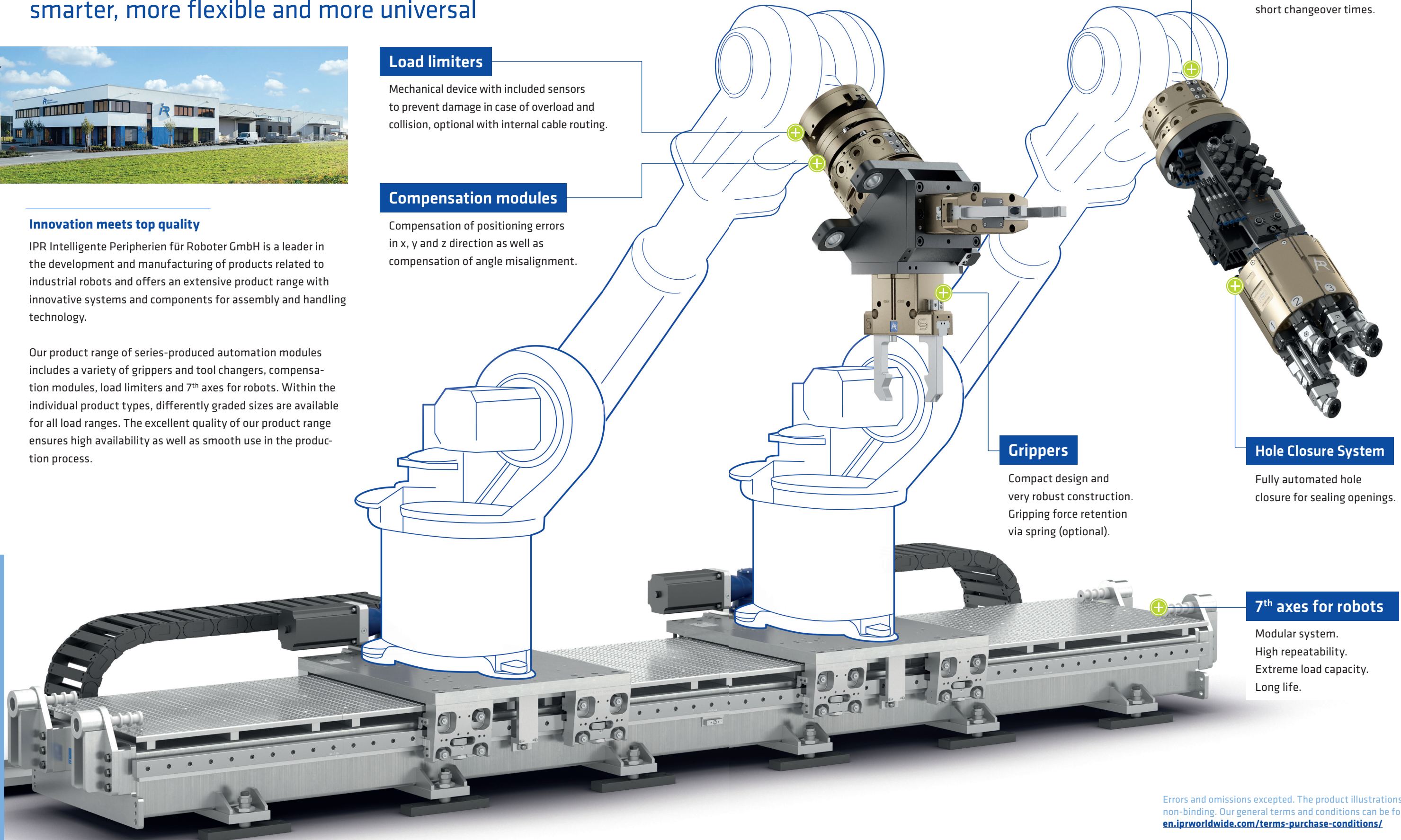
Compact design and very robust construction. Gripping force retention via spring (optional).

Hole Closure System

Fully automated hole closure for sealing openings.

7th axes for robots

Modular system. High repeatability. Extreme load capacity. Long life.



Grippers

For fast and precise gripping of workpieces of any shape, we offer various robot grippers. Whether parallel grippers with two or three jaws, angular grippers or the new hybrid gripper, we always have the right gripping solution for your application.

Parallel grippers

CGS2 | IRP | MGS | RPW | RP

- Universal gripper for all load ranges
- Optional: gripping force retention
- Variants: dust cover (IP64) and high temperature

+ Payload from **0.1 to 95 kg**

+ Gripping force up to **30,000 N**

+ Total stroke from **1.5 to 114 mm**



IP67

3-jaw grippers

CGS3

- Perfectly suited for gripping round components
- High number of variants
- Optional: gripping force retention and dust cover (IP64)

+ Payload from **0.1 to 35 kg**

+ Gripping force up to **16,000 N**

+ Per-jaw stroke from **2.5 to 25 mm**



Angular grippers

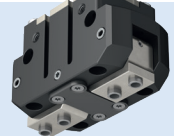
WGS

- Developed for rapid gripping of various components
- Durable, robust construction
- Optional: gripping force retention and stroke limitation

+ Payload from **0.1 to 8 kg**

+ Gripping torque up to **437 Nm**

+ Opening angle (total): **30°**



Load limiters

The load limiters protect your high-quality tools and workpieces from damage and excessive wear. Integrated sensors detect a deflection of the mounted tool which stops the movement of the robot or gantry.

Load limiters


ULS

- Prevents damage when a collision is detected
- Stops the robot in case of mechanical overload
- Adds a level of security to complex applications

+ Payload from **0.1 to 120 kg**

+ Continuously adjustable overload threshold up to **17,910 N**

+ Variants: anti-rotation, spring reinforcement



Load limiters with center hole

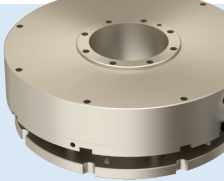
ULD

- Integrated cable through-feed
- Anti-rotation system integrated as standard
- Protects tool and robot

+ Payload from **0.1 to 120 kg**

+ Diameter of center hole up to **95 mm**

+ Simple manual reset after collision



Tool changers

Our tool changers enable safe and fast changing of tools on the robot or gantry for various applications. By automating the changing process in conjunction with modern sensor technology, you can minimize downtimes and increase your productivity.

Modularity taken to the limit

TKP | TKM | TKE | TKT

- ToolChanger³ – unique modular system
- 3 drive technologies on the robot side and compatible with uniform tool side
- Extensive accessories and up to 5 mounting surfaces for transmission modules

+ Handling weight from **0,1 to 800 kg**

+ **4 to 16** internal feed-throughs

+ Up to **15,000 Nm** bending moment



TKP | PNEUMATIC

TKM | MANUAL

TKE | ELECTRIC

The compact standard

TK

- Compact dimensions
- Integrated storage groove
- Standardized ISO flange

+ Payload from **0,1 to 800 kg**

+ **5 to 13** internal air ducts

+ Up to **15,000 Nm** bending moment



The modular heavyweight

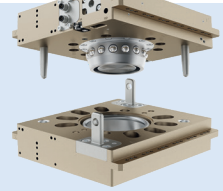
TK-SQ

- Double safety locking
- Modular design with countless configuration options
- Online configurator enables self-service configuration

+ Payload from **0,1 to 1,250 kg**

+ Up to **10** transmission modules per tool changer

+ **Sensors** integrated as standard



Compensation modules

With our compensation devices, you prevent jamming of workpieces and reduce wear on the robot and tool. This enables reliable compensation of tolerances in the X, Y and Z directions as well as in the direction of rotation and tilting.

Compensation modules

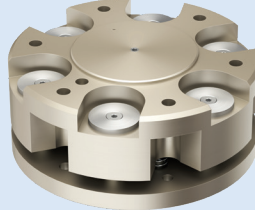
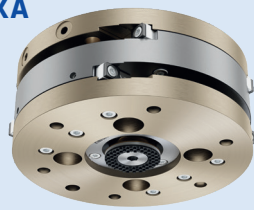

FM | KA | RT | ZN

- Compensation in X/Y direction
- Reduced wear of robot and tool
- Prevents jamming and tilting of workpieces

+ Payload from **0.1 to 800 kg**

+ Compensation in X/Y direction up to **±25 mm**

+ Very smooth-running compensation in X/Y direction



Industry-specific solutions

In addition to over 30 years' expertise in providing standardized products, components and services to the automation, assembly and handling industries, we also excel at providing customized solutions to those industries. Our customers come from a wide range of industries and rely on our special quality, decades of practical experience in development and production, and special know-how of work processes.

Hole Closure System

PSH-Infinity | PSH-Compact

To automate the closure of holes on your car body, we offer smart solutions: With our applicators, we seal holes using adhesive pads or plugs.



- + Pure setting time approx. 2s
- + Different pad diameters
- + Repeat accuracy ±2 mm (ISO 9283)

Cavity Preservation

DMK | DLK | DWK | DDK

In the field of cavity preservation, we offer a diverse selection of innovative technologies to protect your car body.



- + Methods: **spraying, fogging**, and **Air-Mix/Air-Less**
- + Spray fogging with a droplet diameter of < 15 µm
- + Seam and surface coating **in one process**

Seam sealing

To use a variety of different nozzles while still saving costs, we have developed a suitable nozzle-changer.



- + Special nozzle changer for NAD applicators
- + Accessories: storage with locking and presence control for locking status
- + Use of high-viscosity materials such as PVC

Drop-on-demand (DoD)

ACCURA

Thanks to the Drop-on-Demand process, you can coat your components without generating overspray.



- + Overspray-free application
- + Efficiency: **100%**
- + Viscosity up to **30,000 mPa.s**

Special gripper technology

Foundry | Forge | Automation

- Customized gripper systems
- Reliable and precise deployment
- Compatible with all robot manufacturers



Core extraction gripper



Core gripper

- + Temperature resistant
- + Robust
- + Resistant to dirt

7th axes for robots

The 7th axes of IPR reliably and efficiently expand the working ranges of industrial robots in all industries. Whether it's a small cobot, a medium-sized industrial robot or a large heavy-duty robot – we have the right 7th axis solution for every application.

Aluminum and steel axis 1

- Aluminum and steel travel axis
- Modular design, adaptable to customer requirements
- Highest precision
- Fully walkable and expandable

- + Travel speed up to **3 m/s**
- + Load capacity up to **150,000 N**
- + Tilting moment up to **355,000 Nm**

Concrete axis 2

- The world's first composite concrete travel axis for robots
- Up to 6 dB quieter*
- Particularly space-saving
- Up to 5x more torsion stiffness*

- + Travel speed up to **3 m/s**
- + Load capacity up to **50,000 N**
- + Tilting moment up to **80,000 Nm**

Hybrid axis 3

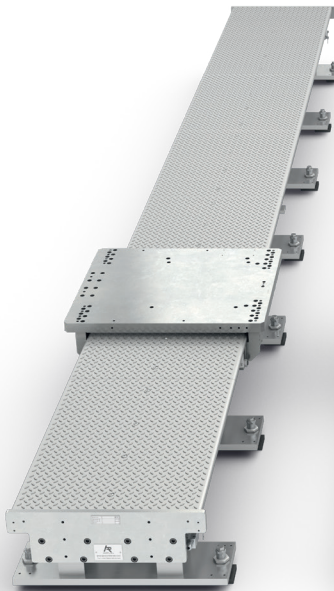
- High load capacity meets significantly reduced vibrations
- Steel ladder frame structure pourable with concrete
- Significantly less vibrations*

- + Travel speed up to **3 m/s**
- + Load capacity up to **75,000 N**
- + Tilting moment up to **155,000 Nm**

*compared to aluminum or steel 7th axis

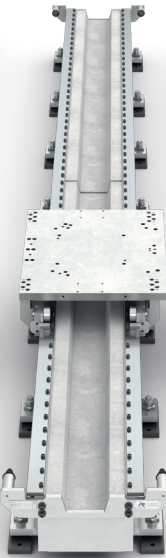
1

IP-180-RA



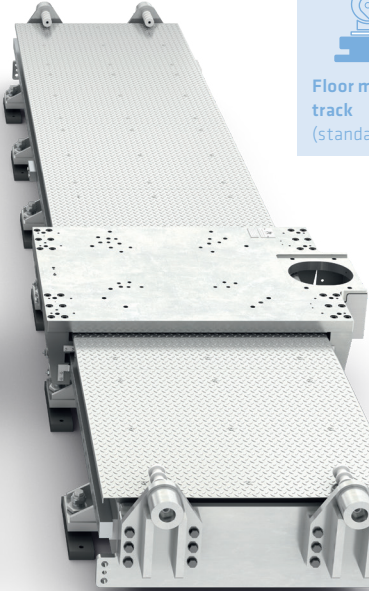
2


RC-1000



3


IP-300-BH






Floor mounted track (standard)


Individual advice
We will be happy to advise you on all aspects of our components and technologies. Benefit from the many years of experience of IPR consultants.




CONSULTING




QUOTING & PROJECT PLANNING



ENGINEERING AND DESIGN



MANUFACTURING



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