# 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 7<sup>th</sup> 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).

### 7<sup>th</sup> axes for robots

Hole Closure System

closure for sealing openings.

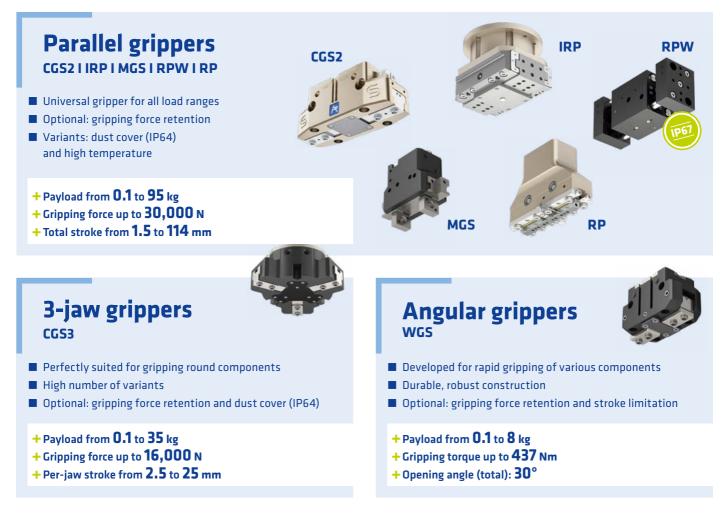
Fully automated hole

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

Errors and omissions excepted. The product illustrations are non-binding. Our general terms and conditions can be found at **en.iprworldwide.com/terms-purchase-conditions/** 

### 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.



### 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



- 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

- 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.



### 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.



### 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

### Cavity Preservation DMK I DLK I DWK I DDK

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

+ Methods: spraying, fogging, and

+ Spray fogging with a droplet diameter of < 15 μm

+ Seam and surface coating in one process

Air-Mix/Air-Less

#### + Pure setting time approx. 2s

or plugs.

+ Different pad diameters

Seam sealing

To use a variety of different

nozzles while still saving costs,

+ Special nozzle changer for NAD applicators

+ Use of high-viscosity materials such as PVC

+ Accessories: storage with locking and presence control

we have developed a suitable

nozzle-changer.

for locking status

+ Repeat accuracy ±2 mm (ISO 9283)

### **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

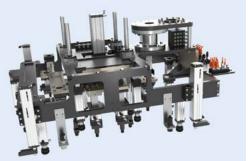
- Customized gripper systems
- Reliable and precise deployment
- Compatible with all robot manufacturers

#### + Temperature resistant

- + Robust
- + Resistant to dirt



**Core extraction gripper** 



#### **Core gripper**

### 7<sup>th</sup> axes for robots

The 7<sup>th</sup> 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 7<sup>th</sup> axis solution for every application.





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