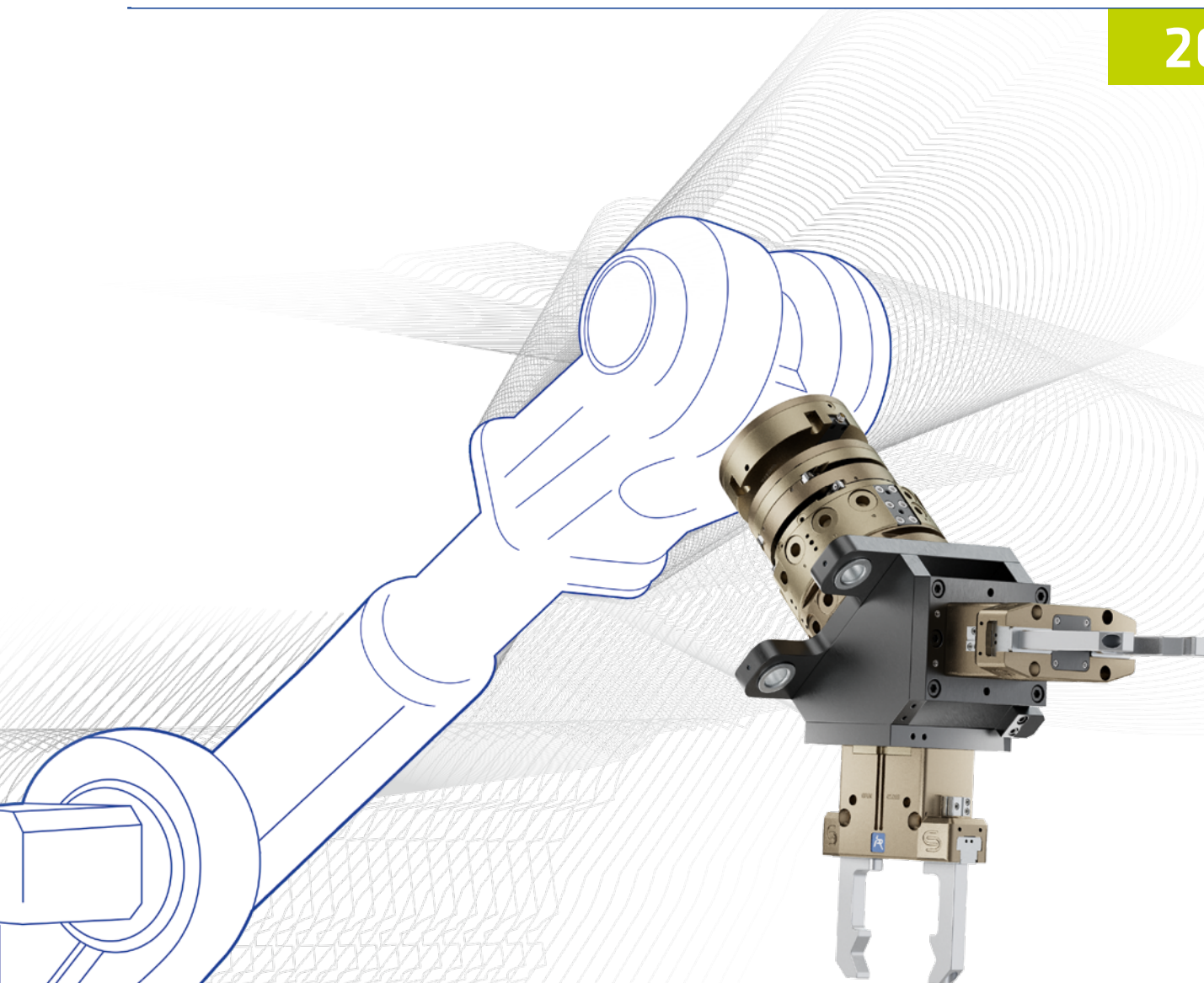


PRODUCT NEWS

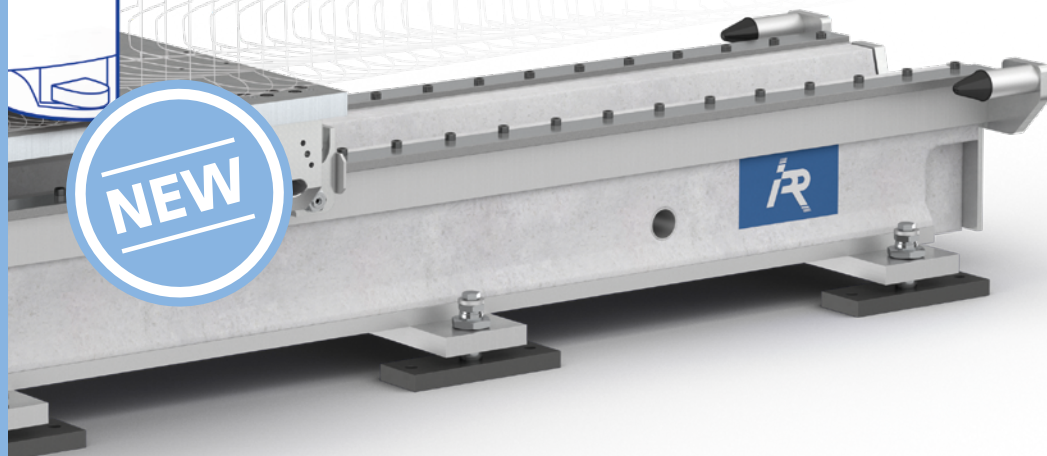
2022



EVERYTHING ROBOTS

NEED TO WORK

NEW

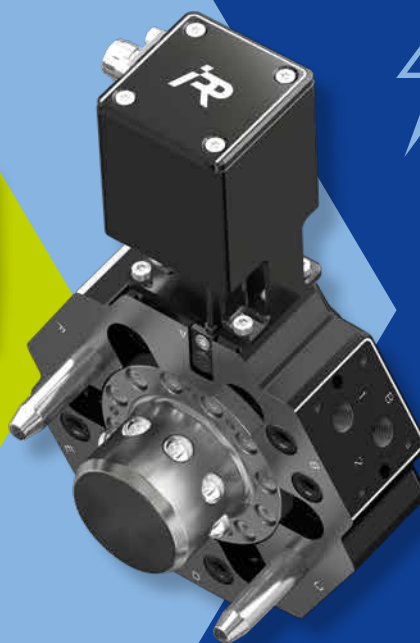


IR
INTELLIGENT
PERIPHERALS FOR ROBOTS



TOOLCHANGER³

PNEUMATIC · ELECTRIC · MANUAL



MODULARITY
TAKEN TO THE LIMIT

The new IPR tool changer for robots

3 drives – compatible and interchangeable

The new TKX product family revolutionizes the world of robot automation: Three drive technologies with endless application possibilities. In typical industrial applications as well as for use with light-weight robots and stationary applications, the new tool changers are the best choice. From now on, you can use a single system to equip every robot in your production - interchangeable and fully flexible.

- ⊕ **Wide portfolio from 3 to 500 kg payload**
- ⊕ **Extremely robust and low-wear due to hard chrome-plated functional parts**
- ⊕ **Improved compressed air transmission due to specially developed seals**



Proven functional principle –
successful for 30 years and further
improved with optimized kinematics
for maximum locking force.



Changing with 24 V – no pneumatics
necessary, therefore especially suitable
for light-weight robots, cobots and
environments without compressed air.



Change in the blink of an eye –
no power supply necessary, therefore
especially suitable for applications
with low replacement cycles.

Everything from a single source

Compatible accessories

Each application has its own requirements and needs components that are specially adapted and optimized for maximum productivity. For the new product family of TKX tool changers a new portfolio of accessories has been developed from scratch. Configure your system exactly the way you need it – IPR provides you with everything from a single source.



Transmission modules

Optimum supply of your tools

Standardized modules with the latest technology enable the transmission of a wide variety of media. You have the choice between electric, pneumatic and hydraulic versions which are available for each tool changer. Our highlight: The new bus module for Ethernet-based fieldbuses up to 1 Gbit.

CGS | COMPATIBLE GRIPPER SERIES



CGS2-125-1-SA

CGS2 series 2-jaw universal gripper NEW: with dust cover

Thanks to 189 standard variants with gripping force retention, dust cover or in high-temperature design, the gripper can be used universally and flexibly.

- + Payload up to **95 kg**
- + Compatible with customary standard sensors
- + Corrosion protected included as standard



CGS3-125-1

CGS3 series 3-jaw universal gripper

The perfect addition to the CGS portfolio: The centric gripper CGS3 with three jaws for round workpieces of any size! Magnetic and inductive sensors, dust covers and pressure stars make this new gripper the perfect all-rounder for machine feeding.

- + Payload up to **35 kg**
- + Compatible with customary standard sensors
- + Optional: pressure star included

WMS-C series Absolut position measuring

With the new IPR WMS-C, monitoring the finger position of grippers at any time is child's play. The magnetic sensor is compatible with all CGS grippers – even as a retrofittable accessory without any changes to the gripper itself.

- + Sensor resolution **0.01 mm**
- + Retrofittable without conversion measures – put the sensor into C-slot, teach, done!
- + Compatible with all CGS2 and CGS3 grippers



RT series

Rotation compensation

Position and orientation tolerances around the Z-axis will no longer be an issue for your application – with the IPR RT series, you can easily compensate an angular offset of up to 5°. Locking is possible in both central and deflected position.

- + Payload up to **300 kg**
- + Smoothest compensation on the market
- + Standardized mounting pattern



RT-160

In detail:
High-quality roller guides
and locking mechanism
in the RT-300



RT-KA series

Rotation and X/Y compensation

Your application requires a rotation compensation with additional degrees of freedom in X and Y directions? The RT-KA series enables this combined compensation with both a significantly reduced installation height and lower total weight. Centric locking is also possible with the RT-KA series.

- + Payload up to **250 kg**
- + Compensation in X/Y direction up to ± 5 mm
- + Rotation angle compensation up to $\pm 5^\circ$



RT-KA-300

In detail:
Bottom side of the RT-KA-300



FWS series

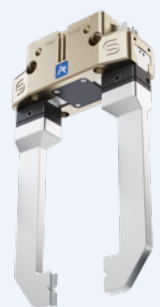
Finger changing system

Manually changing gripper fingers within seconds: The new IPR FWS makes this possible. One rotation with a tool is sufficient to open the newly-developed locking mechanism.

- + Up to **60%** lower installation height than comparable products
- + Maximum power density due to hardened steel
- + High quality corrosion protection



FWS-125



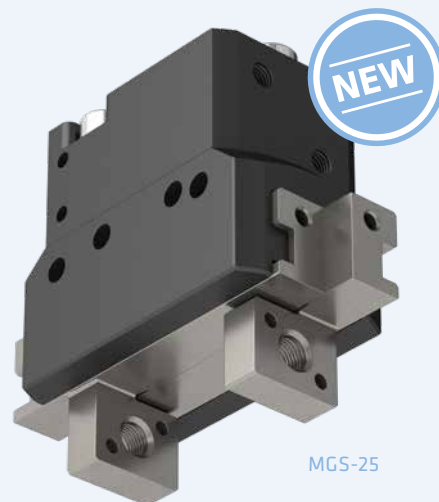
CGS-125 with
mounted
FWS-125

MGS series

Small parts gripper

Modular assembly automation with shortest possible throughput times place high demands on the grippers installed. This is where the new IPR MGS series shows its strength. The smallest electronic components, screws and much more are securely gripped with highest precision. With optionally available sensor kits, you have full control over the process at all times. The optional gripping force retention protects your workpieces even in the event of compressed air failure.

- + Weight from **25 g**
- + Stroke per jaw from **1.5 mm**
- + Standardized sensor kits for every size and every use case



WGS series

Angular gripper

Universal angular grippers with two jaws and extensive accessories – this is the new IPR WGS series. Fast gripping processes in which different workpieces are handled chaotically are optimally suited for these grippers. The optional stroke limitation allows the use even in narrow installation spaces. Various magnetic and inductive sensors ensure constant process monitoring. The gripping force retention by spring provides reliable protection in case of an emergency stop.

- + Opening angle (total): **30°**
- + Optional stroke limitation, infinitely variable
- + Payload up to **8 kg**

Make use of the CAD portal online!

In the IPR online portal, you can view your desired product in 3D from all sides and compare different sizes and versions. You will also find all technical data and drawings in one place. You also have the possibility to contact us directly. And in case you need the data offline, you can download CAD and drawing data as well as data sheets for each product.

Try it now: <https://ipr.partcommunity.com>



RPW Hybrid series

Electric-pneumatic gripper

The best of both worlds: Full pneumatic gripping force meets precise pre-positioning and stroke monitoring with the electric motor. This enables your robot to reliably move complex geometries that previously required several steps in the process.

- ⊕ Positioning accuracy up to **0.01 mm**
- ⊕ Protection class **IP65**
- ⊕ Integrated control with various interfaces: EtherCAT, Ethernet/IP, CANopen etc.

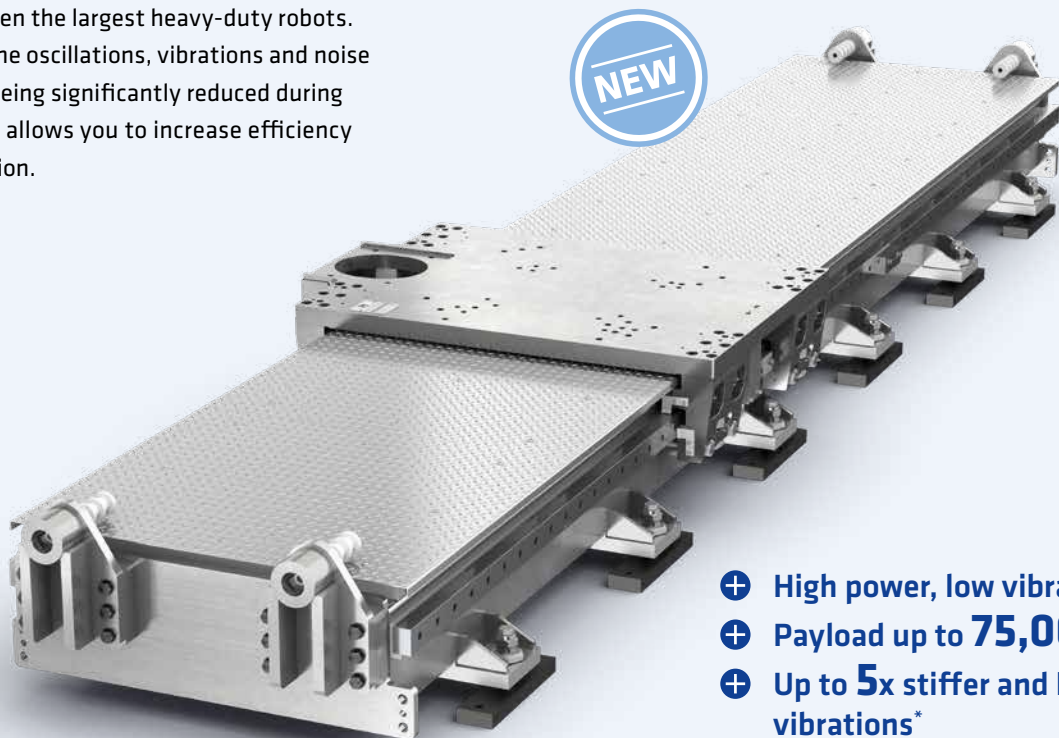


RPW-500-2-HYBRID

IP-BH series (Concrete/Hybrid)

7th axis for robots made of concrete and steel

The consistent next step after the concrete rail: A 7th axis for robots made of steel, combined with composite concrete. The advantages of the two worlds are optimally combined with this brand-new rail. Due to their steel construction, the IP-BH series rails are extremely powerful and extend the range of motion of even the largest heavy-duty robots. At the same time oscillations, vibrations and noise emissions are being significantly reduced during operation. This allows you to increase efficiency in your production.



- ⊕ High power, low vibrations
- ⊕ Payload up to **75,000 N**
- ⊕ Up to **5x** stiffer and lower vibrations*

IP-300-BH

* compared to aluminum or steel rails

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