



The logo features a stylized 'MA' monogram in white, followed by a vertical line and the company name 'MECHATRONIK AUSTRIA GMBH' in white. The text is centered over a dark red, irregularly shaped background that resembles a map of Austria, set against a dark blue background with a faint grid and star pattern.

**MA** | MECHATRONIK  
AUSTRIA GMBH

“

We develop,  
digitize &  
provide safety



- Established in April 2016
- ISO 9001 & SCC certified
- 35 employees
- MECHATRONIK AUSTRIA is an independent technical office and software/robotics business focussing on:
  - ✓ **Software development**
  - ✓ **Testing department**
  - ✓ **Hardware for robots**







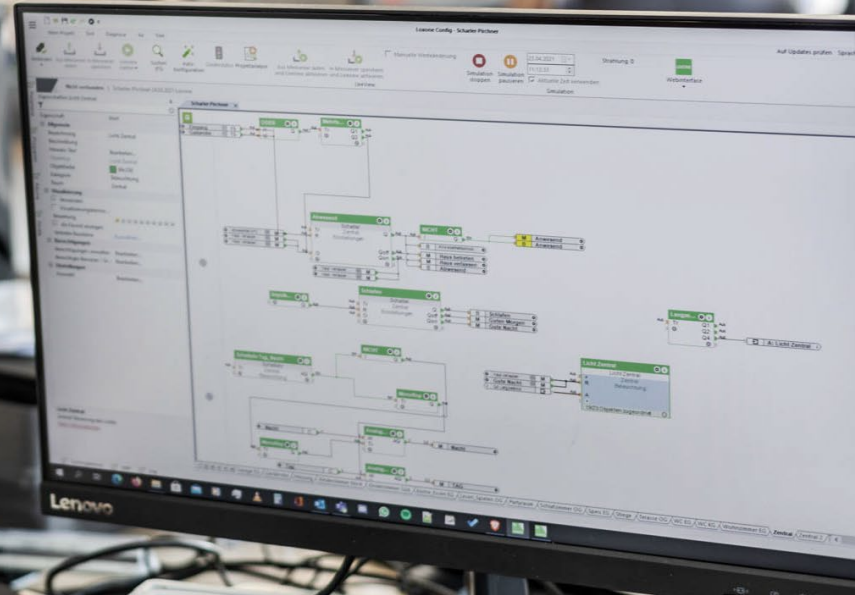
**01** | SOFTWARE DEVELOPMENT

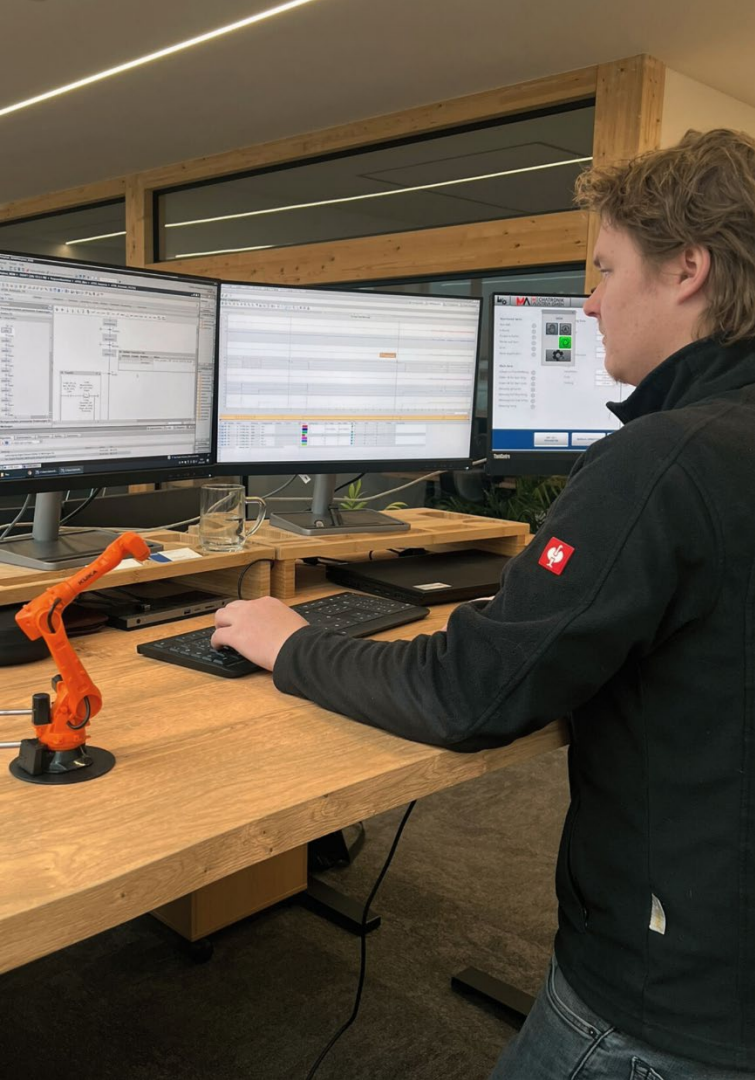
**02** | TESTING DEPARTMENT

**03** | HARDWARE FOR ROBOTS

# 01 SOFTWARE DEVELOPMENT

- ✓ SPS Programming
- ✓ High-level Language Development
- ✓ Robot Programming
- ✓ AI / Deep Learning





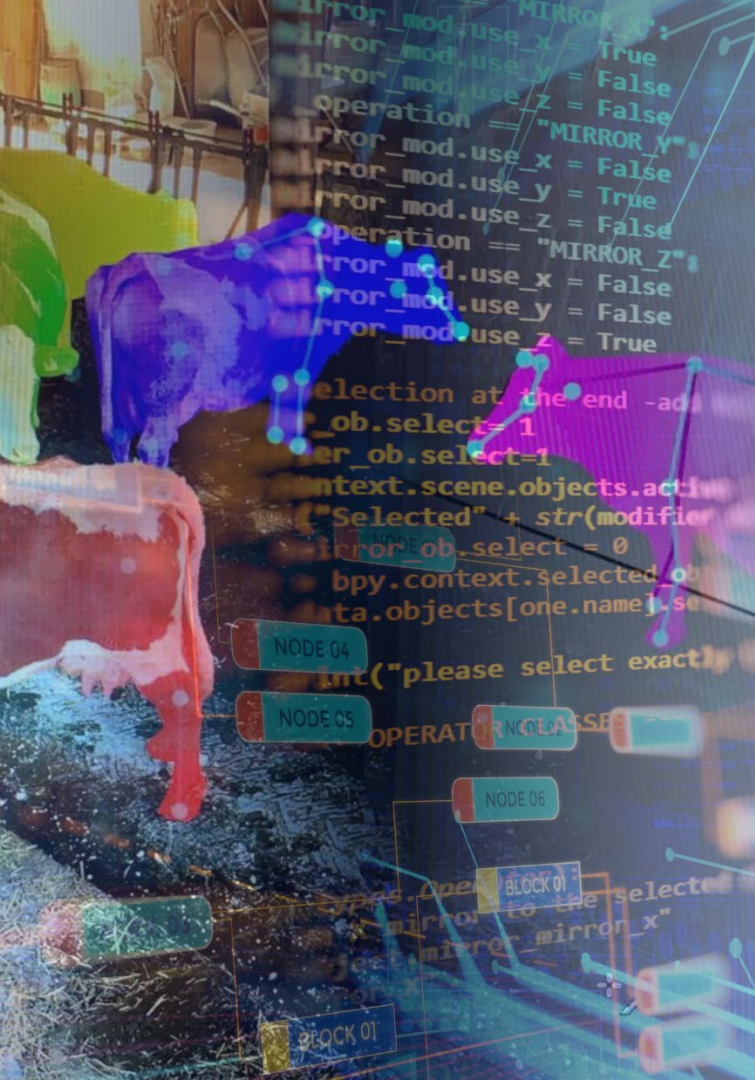
# SPS PROGRAMMING

- Siemens, Beckhoff
- Safety solutions
- Customer-oriented user interfaces
- Cross-manufacturer communication of different controllers
- Analysis and optimization of existing facilities
- Prozess visualization
- Drive technology
- Consultation and inspection for the purchase of existing facilities



# HIGH-LEVEL LANGUAGES

- Diverse programming languages
  - Python, C#, Delphi, C/C++
- SQL and NoSQL data connection
  - PostgreSQL, MySQL, Microsoft SQL, Oracle, MongoDB, CouchDB
- Connection of various interfaces
  - ProfiNet/ProfiBus, ModBus, CAN, REST, gRPC, TCP/IP
- DeepLearning in the fields of picture recognition and time series analysis





# ROBOT PROGRAMMING

- Concepts and virtual tests
- Programming of various solutions
- Vision processes (e.g. for partial recognition, pallet measurement)
- Analysis and optimization of existing programmes
- TCP measurement for robots of all manufacturers
- Consultation and inspection for the purchase of existing facilities

**YASKAWA KUKA FANUC ABB** 



# 02

## TESTING DEPARTMENT

- ✓ Periodic Inspections
- ✓ Technical Documentation
- ✓ Risk Analysis
- ✓ Safety Management
- ✓ CE Declarations of Conformity
- ✓ Expert Opinions and Reports





## PERIODIC INSPECTIONS

- Electrical installations and equipment
- Lightning protection systems
- Emergency lighting
- Power-operated doors and gates
- Machines for lifting loads
- Forklifts, overhead cranes
- Construction machines
- Fall protection systems
- Holding and fall arrest harnesses
- Medical devices e.g. defibrillators

# PRÜFBUCH KRÄNE / HEBEZEUGE

Prüfungsnummer

Art des Hebezeugs

Ort

Bez. / Nr. im Betrieb


Der Gesetzgeber sieht vor dieses Dokument an der Betriebsstätte aufzubewahren.  
Liegen die geprüften Geräte außerhalb der Betriebsstätte, so ist das Dokument am  
Einsatzort oder dem Gerät selbst aufzubewahren.

ÖNORM M 9602  
VERS.01/2022



zt:

mechatronik-austria.at/prüfwesen

# TECHNICAL DOCUMENTATION

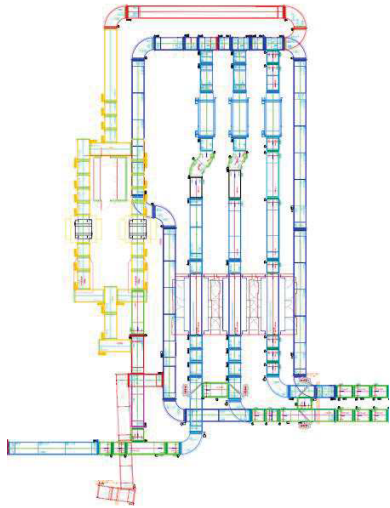
Technical documentation is a very **important part** of a product, machine or installation.

This makes **installation, usage, maintenance or repair** significantly easier.

It includes all **documents** and **information** which describe the product in detail and explain its use and operation.

## Sicherheitskonzept

Umbau Gepäckförderanlage  
Flughafen Salzburg GmbH



Originalsicherheitskonzept

Ausgabe: DE 2023-11; Vers. 01.0.2

Ersteller: Mechatronik Austria GmbH

# SAFETY- MANAGEMENT

- We protect people and machines
- We keep track of everything for you
- We support you in development
- We optimize processes for you
- We are reliable

This also requires **calculations & simulations**. These are carried out for you with our know-how and the support of the most modern technology.

## EG-Konformitätserklärung

## Original - Konformitätserklärung

Technische Begleitung: Mechatronik Austria GmbH  
Leogangerstraße 51a  
AT-5760 Saalfelden

Der Hersteller: [REDACTED]  
[REDACTED]  
[REDACTED]

erklärt hiermit, dass folgendes Produkt:

Produktbezeichnung: [REDACTED]  
Typenbezeichnung: [REDACTED]  
Seriennummer: [REDACTED]  
Baujahr: [REDACTED]

allen einschlägigen Bestimmungen der Maschinenrichtlinie (2006/42/EG) entspricht.

Folgende harmonisierte Normen wurden angewandt:

ÖNORM EN ISO 12100 Sicherheit von Maschinen Allgemeine Gestaltungsleitsätze –  
Risikobeurteilung und Risikominderung

Ort: Saalfelden  
Datum: [REDACTED]

MECHATRONIK AUSTRIA GMBH  
www.mechatronik-austria.at

Daniel Hofer, Test Engineer  
Mechatronik Austria GmbH

[REDACTED]  
[REDACTED]

# EU DECLARATION OF CONFORMITY

We create the **CE marking** of your product,  
machine or installation in compliance with all  
standards and directives:

- Individual systems
- Interlinked systems
- Retrofit / conversions







## EXPERT OPINIONS & REPORTS

By sworn **experts** in the fields of  
**machinery- and plant engineering.**

- Expert opinion
- Damage assessment
- Static calculations
- Estimates & valuations

in Kooperation mit:

ZT-CONSULTING   
ZIMMERMANN



# HARDWARE FOR ROBOTS

EVERYTHING FROM ONE PROVIDER

EXCLUSIVE DISTRIBUTION PARTNER | IPR, BizLink & RPS

# COMPANY PRESENTATION

## RPS GmbH

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Tailor-made **robot protective suits** for all applications

**01** **HEAT PROTECTION**  
Temperature resistant up  
to 1200 °C

**02** **SANDBLASTING**  
Highly resistant to  
blasting with corundum,  
steel balls, sand

**03** **FOOD**  
High-pressure resistant,  
dirt repellent, easy to  
clean surface

**04** **CLEAN ROOM**  
Meets requirements  
according to Norm FDA 21  
CFR Kap.1 and EGV 1935/04

**05** **HOSE PROTECTION**  
No need to disconnect  
cables, quick change  
intervals

**06** **GRIPPER  
PROTECTION**  
High flexibility, longlife,  
special adaptation





## HEAT PROTECTION

- ✓ **RPS TG18:** heat-resistant up to 450 °C with direct contact
- ✓ **RPS TG09:** heat-resistant up to 500 °C, dirt-repellent, resistant to separating agents
- ✓ **RPS TG50:** temperature-resistant up to 1200 °C





## SANDBLASTING

- ✓ **Special rubber**
- ✓ **Highly resistant to blasting** with corundum, steel spheres, grey cast iron, sand
- ✓ **Cold-vulcanized seams** therefore no infiltrate by media possible
- ✓ **Highly abrasion resistant**
- ✓ **Extremely flexible**





## FOOD / CLEAN ROOM

- ✓ **Meets the requirements** according to Norm FDA 21 CFR Kap.1 and EGV 1935/04
- ✓ **Resistant to** all cleaning products known to us
- ✓ **Further benefits:** high-pressure resistant, dirt-repellent, easy to clean surface



## HOSE PROTECTION

- ✓ **Protection** possible for **all areas**
- ✓ **No need to disconnect cables**
- ✓ **Quick change intervals** due to different closures



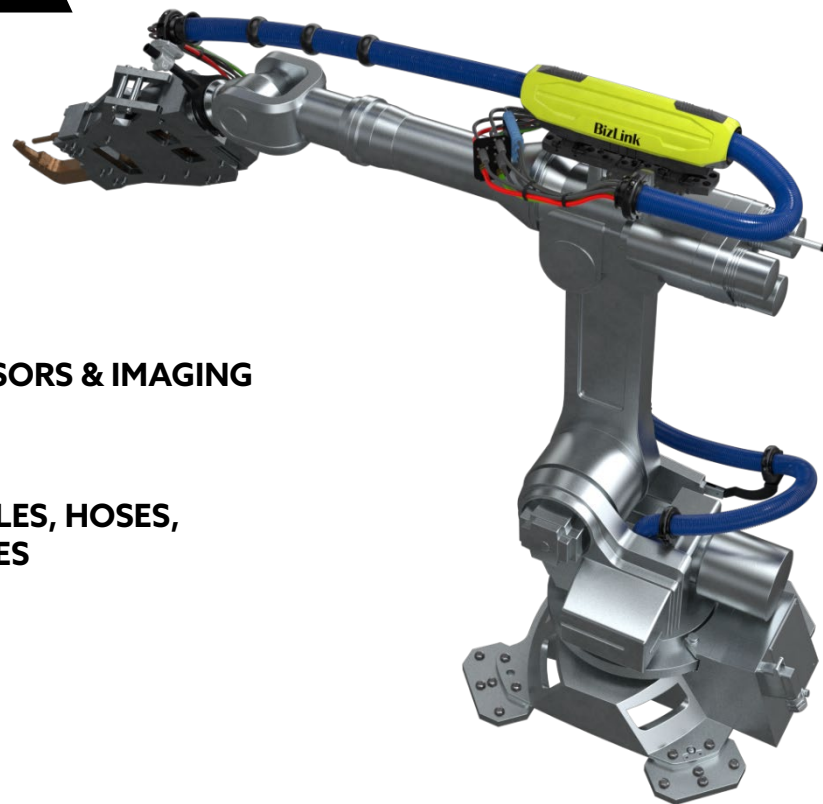
# GRIPPER PROTECTION

- ✓ Highly **flexible**
- ✓ **Long life**
- ✓ Special **adaptation**
- ✓ **Protection for all areas** possible  
e.g. camera, electronics, sensors etc.

# COMPANY PRESENTATION

## BizLink Factory Automation

Standardized cables, special cables and assembled systems as well as intelligent products and smart services



**01** ENERGY SUPPLY  
SYSTEMS

**02** DRESSPACKS

**03** TOP PRODUCT GROUPS  
LSH3 6 // LSC 7 // LSH-DELTA //  
Special Solutions

**04** SENSORS & IMAGING

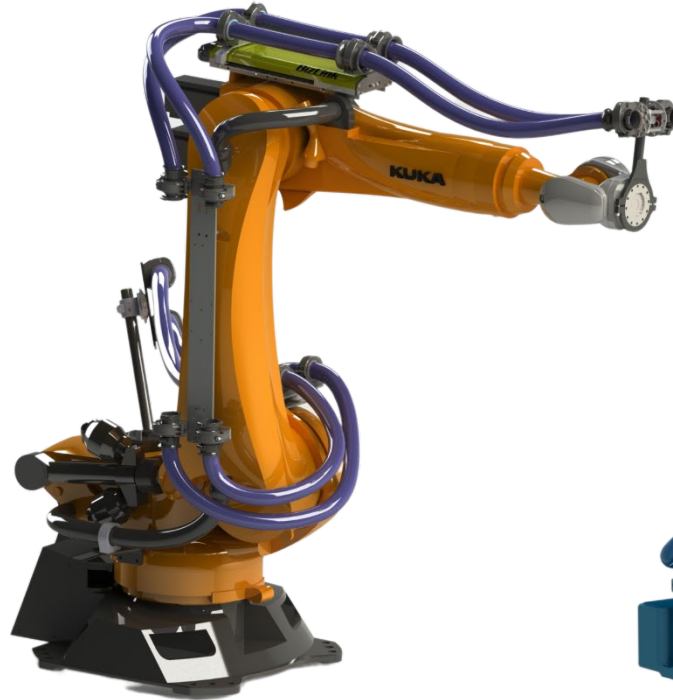
**05** CABLES, HOSES,  
TUBES



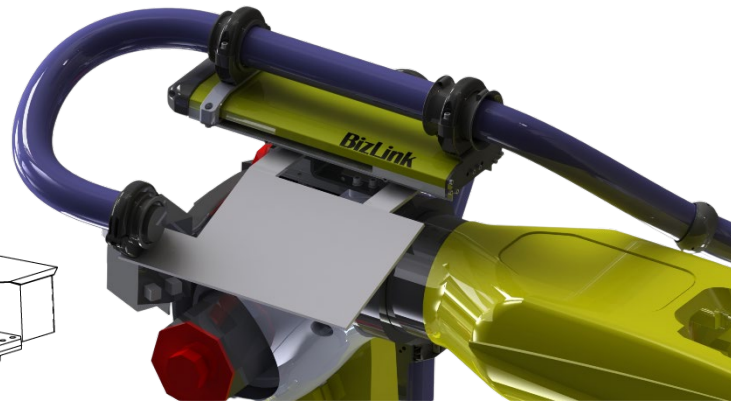
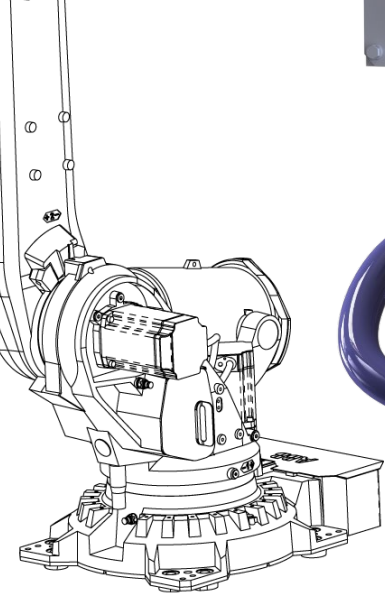
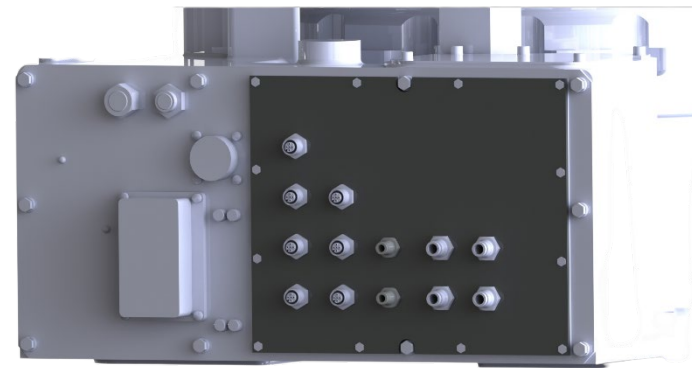
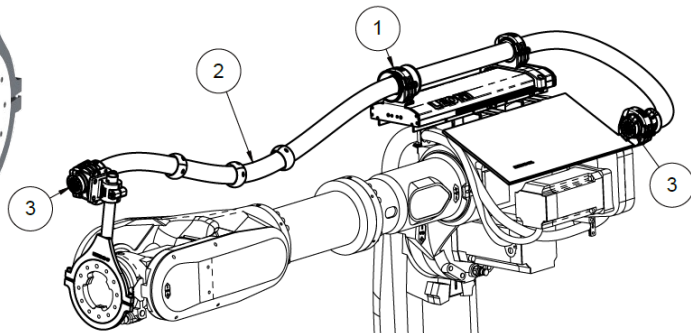
# BizLink Factory Automation PRODUCT GROUPS

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**BizLink**







# BizLink Factory Automation PRODUCT GROUPS



# BizLink Factory Automation PRODUCT GROUPS



- ✓ Simple assembly
- ✓ One **base plate** for several robot types
- ✓ Easily adjustable on the base plate with **Slide & Click**





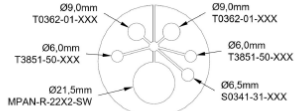
**BizLink**



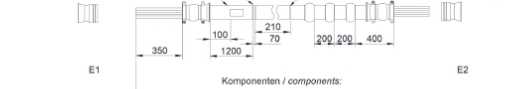
Komponentenlänge: 4,50 m  
length of components:

Weilrohrlänge: 3,00 m proflex 48 BU M48-BU  
length of corrugated hose: +2x NBES-48G

Endmontage: 2x Gelenkendstück / simple trumpet B00761-00-39  
final assembly: 2x Zugentlastung / cable star B00760-14-35-15  
3x Protection: E00781-29  
1x Markierungsring rot / marking ring NSA0000131-1  
2x Markierungsring weiß / marking ring NSA0000133-1  
Etikett / label

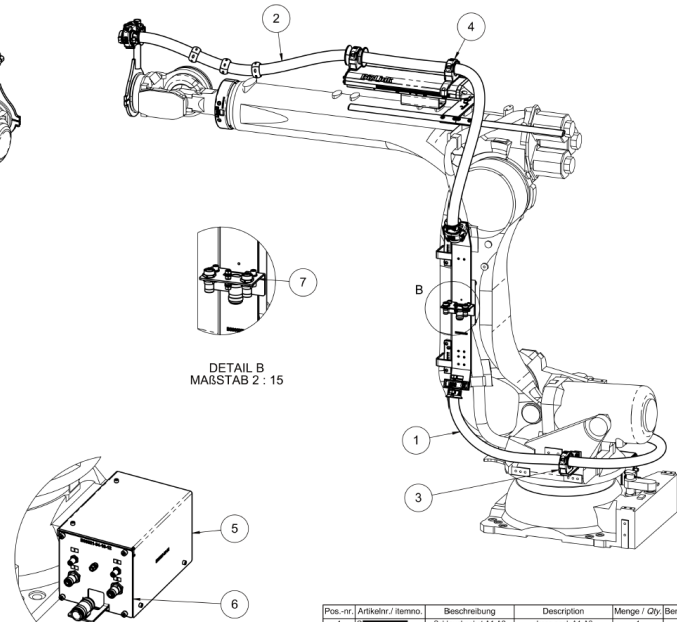
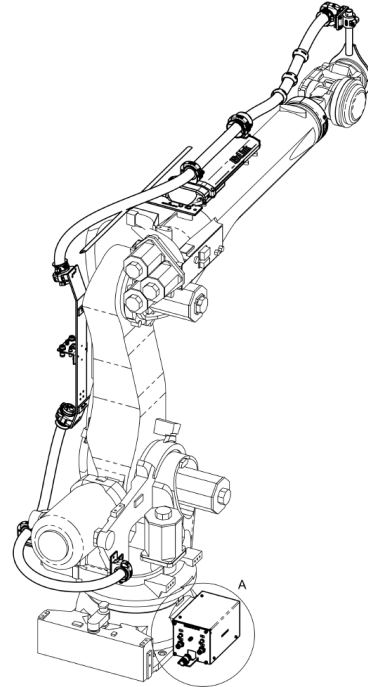


2x Markierungsringe weiß / marking rings white NSA0000133-1  
Etikett / label  
Markierungsring rot / marking ring red NSA0000131-1  
Optimierung bei Montage am Roboter  
length of components optimizing by mounting



1.	T3851-50-045 M12-D, 4pol. Stift / pin	[4xAWG22] beidseitig nummeriert „1“ / numbered on both sides „1“	M12-D, 4pol. Stift / pin
2.	T0362-01-045 7/8", 5pol. Stift / pin	5x1,5mm <sup>2</sup> beidseitig nummeriert „1“ / numbered on both sides „1“	7/8", 5pol. Buchse / socket
3.	T3851-50-045 M12-D, 4pol. Stift / pin	[4xAWG22] beidseitig nummeriert „2“ / numbered on both sides „2“	M12-D, 4pol. Stift / pin
4.	T0362-01-045 7/8", 5pol. Stift / pin	5x1,5mm <sup>2</sup> beidseitig nummeriert „2“ / numbered on both sides „2“	7/8", 5pol. Buchse / socket
5.	S0341-31-045 Kabelschuh Ø8mm cable eye Ø8mm	1x 10,0mm <sup>2</sup>	Kabelschuh Ø8mm cable eye Ø8mm
6.	MPAN-R-22X2-SW unkonfektioniert without fitting	FESTO 8036207 Länge / length: 4,50m	unkonfektioniert without fitting

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DETAIL B  
MAßSTAB 2 : 15

DETAIL A  
MAßSTAB 2 : 15

Pos.-nr.	Anfänger / item no.	Beschreibung	Description	Menge / Qty	Bemerkung / comment
1	C	Schlauchpaket A1-A2	dress pack A1-A2	1	
2	C	Schlauchpaket A2-6	dress pack A2-6	1	
3	903075-39	Support A1-A2	support A1-A2	1	
4	903075-37-02-02HS	Systemadapter für LSH 3	systemadapter for LSH 3	1	
5	800621-33-02	Halter Schrottplatte Socket	holder interface plate at base	1	
6	800626-26-01-12	Schrottplatte A1	interface A1	1	
7	800625-36-35-18	Schrottplatte Schwinge	interface at link arm	1	

FANUC R2000C/210L		General tolerances		Surface treatment:	
corrugated hose nw 48 flange DM200*190mm		A1-A2 - A2-A6		Material: Weight (kg): 44.30	
		Date		Description:	
		Name		Energiepaket HA, A1-2/2-6	
		created		complete dress pack system	
		checked		part number	
		approved		D	
		Robotic Solutions Germany GmbH		scale:1:15 sheet 1/1 format A3	
Rev.	Ref.nr.	modification	date	name	

±0,5 ±0,5

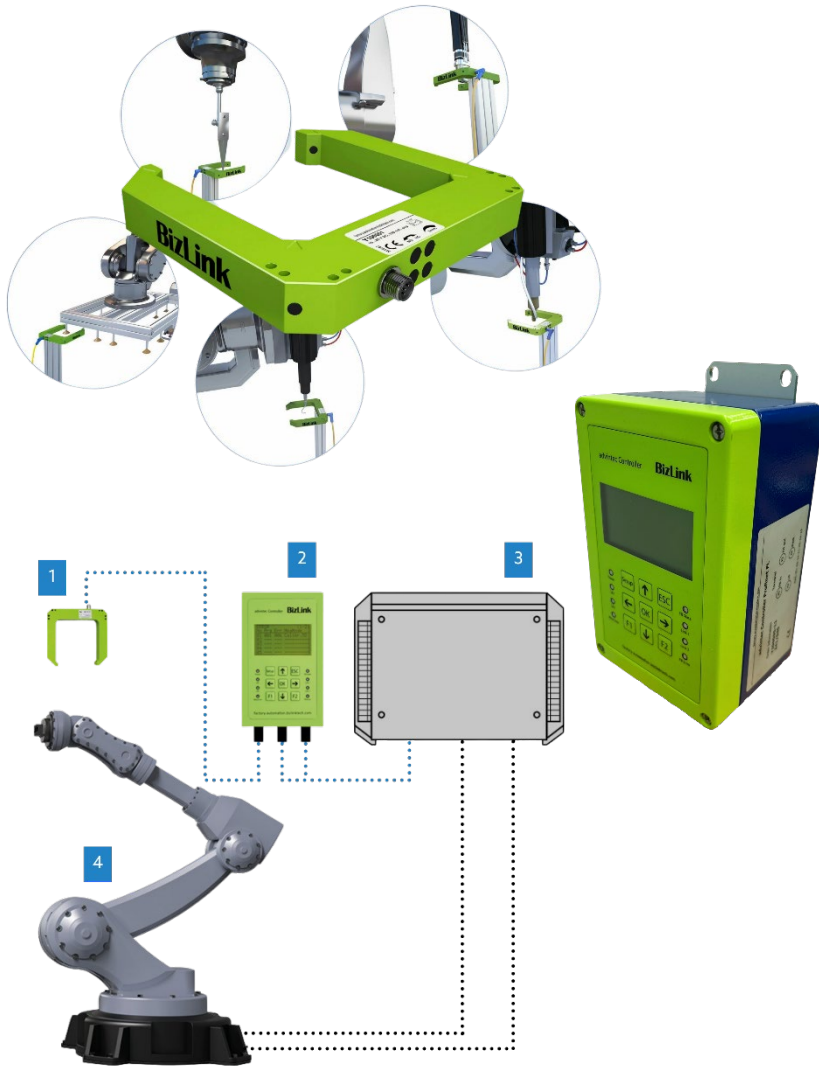
Teil frei von lackbenutzungshemmenden Stoffen / Product free of substances inhibiting paint adhesion

We guarantee that all special cables, wires and auxiliary material are absolutely free from silicone. This drawing is not allowed to be duplicated or notified to a third person or a competition company neither in original nor as copy without our written permission (§§15-17 UHG). In case of contravention we keep the right of claiming for damages (§§7 UHG) and the right of demanding for a penalty (§§106, 108a UHG). Tolerances see BRSO\_S-TYN.

# CABLES, HOSES, TUBES



# SENSORS & IMAGE PROCESSING



- ✓ **Uncomplicated**
- ✓ Reduction of robot programming effort to a minimum
- ✓ Fast assembly
- ✓ Simple **commissioning**
- ✓ Continuous **logging of measurement data**
- ✓ No need for additional PCs

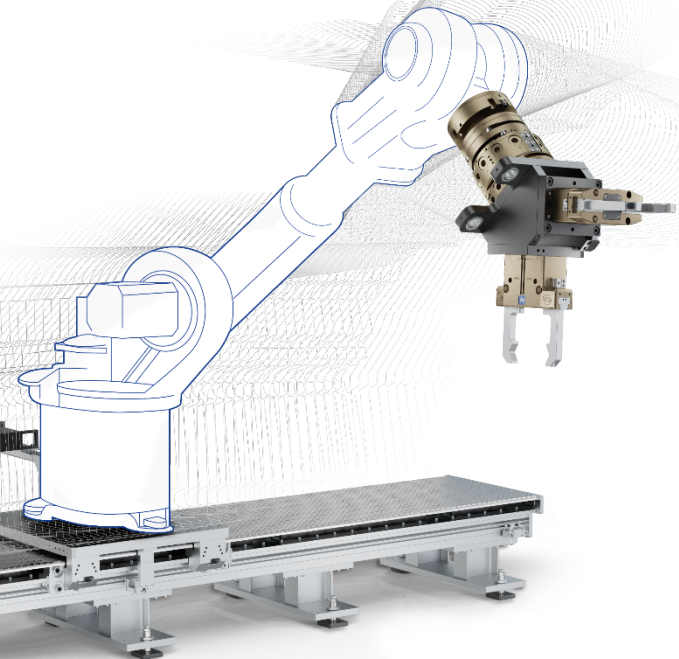
# COMPANY PRESENTATION

## IPR Intelligente Peripherien für Roboter GmbH

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Industry-specific solutions for robot applications and automation solutions



**01**

### GRIPPER

Reliable gripping of components

**02**

### COMPLIANCE & COMPENSATION SYSTEMS

Reliable compensation of tolerances

**03**

### COLLISION PROTECTION SYSTEMS

Reliable detection of collisions

**04**

### 7th AXIS

IPR has the right 7th axis solution for every application

**05**

### TOOL CHANGER

Fast and safe changing of tools on the robot or gantry



# PARALLEL GRIPPER SERIES CGS2



## ADVANTAGES

- ✓ No prescribed sensor technology
- ✓ Long gripper fingers possible
- ✓ **1:1 interchangeable with the benchmark through:**
  - wide range of sizes
  - precise and reliable use
  - handling weights up to 95kg
  - maximum gripping forces



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**IPR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER

# FINGER-CHANGE SYSTEM

## ADVANTAGES

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

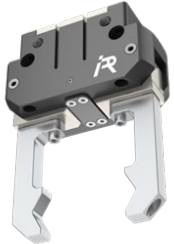
Manual changing of gripper fingers within seconds: The new FWS from IPR makes this possible! One turn with the tool is all it takes to release the specially developed locking kinematics.



## MGS-Series

### ADVANTAGES

- ✓ Precise small parts gripper
- ✓ High power density
- ✓ Optional: gripping force maintenance



## WGS-Series

- ✓ Fast gripping of different parts
- ✓ Durable and robust
- ✓ Optional: gripping force maintenance and stroke limitation



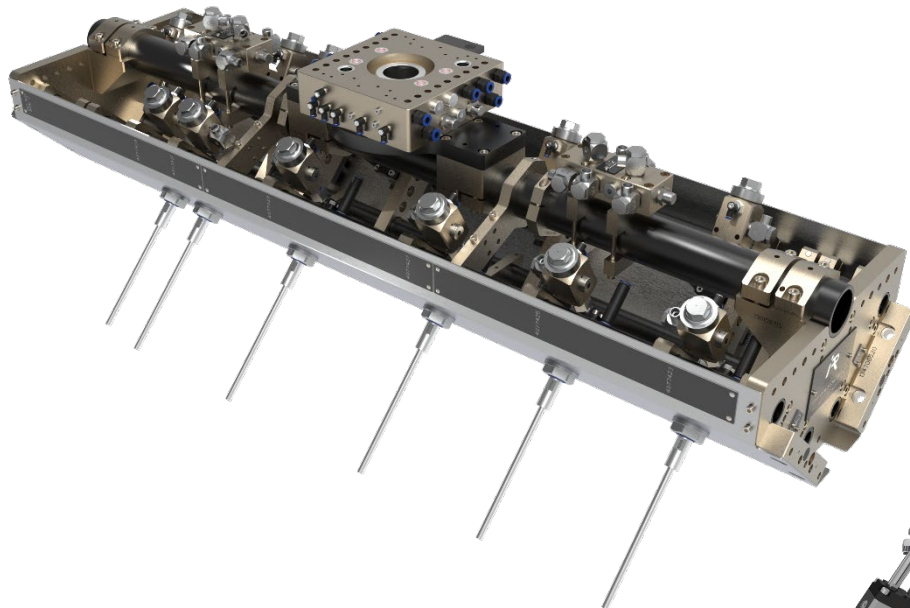
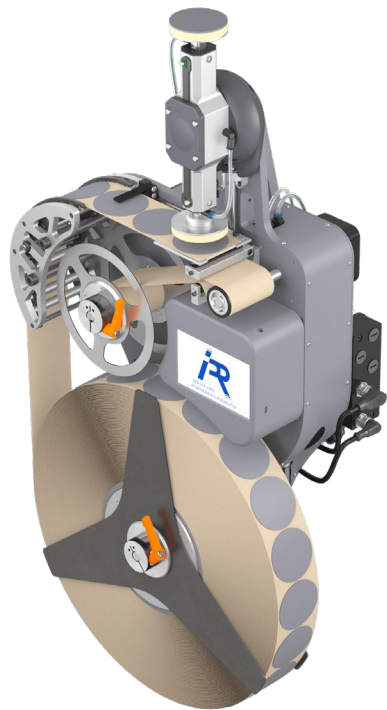
## CGS3-Series

- ✓ Universal centric gripper
- ✓ Ideally suited for round workpieces
- ✓ Optional: Dust cover and pressure star

# SPECIAL SOLUTIONS

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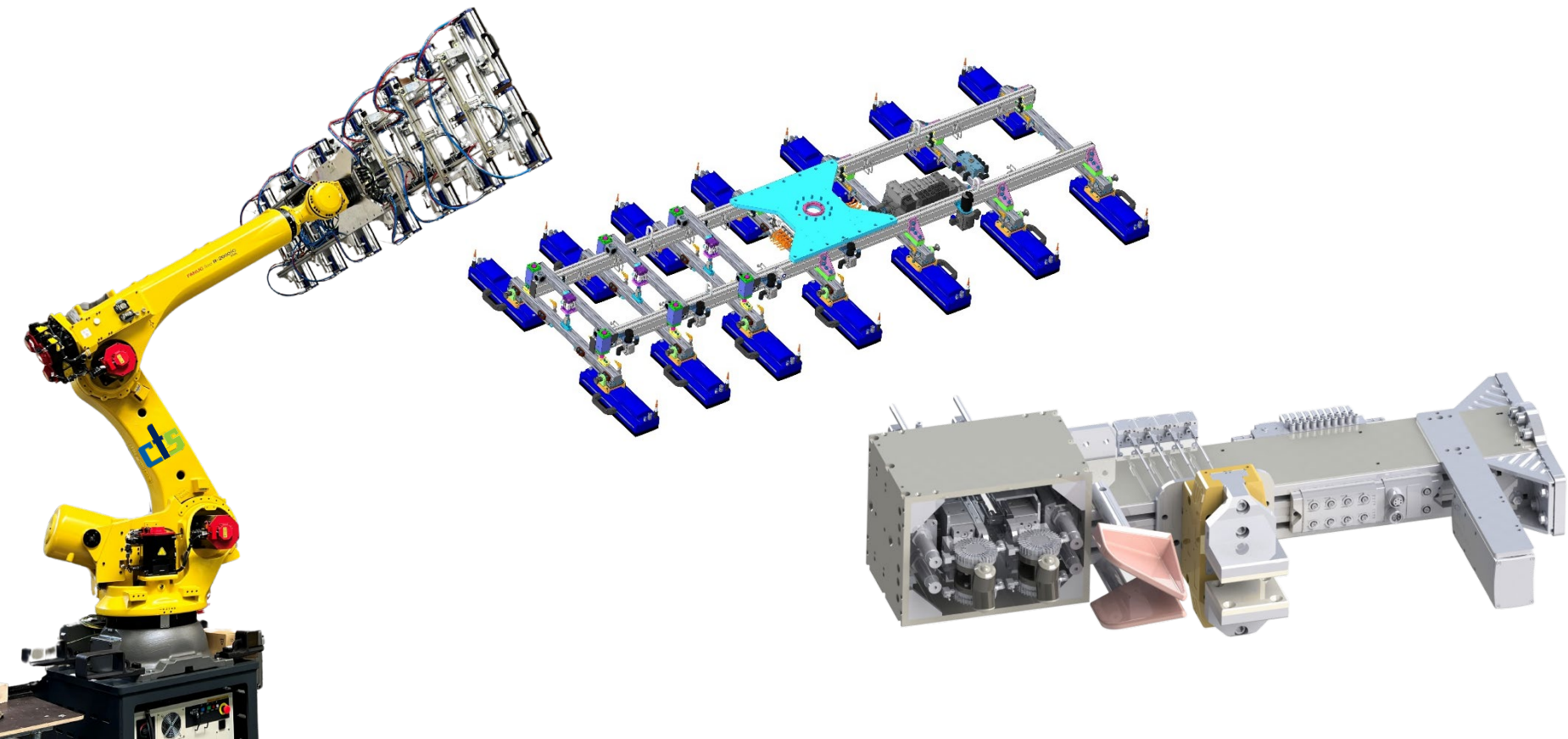
**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER





# SPECIAL SOLUTIONS

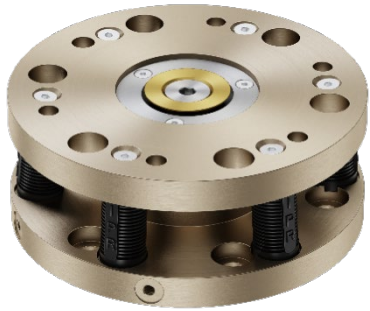
**MA** MECHATRONIK  
AUSTRIA GMBH



# COMPLIANCE AND COMPENSATION SYSTEMS

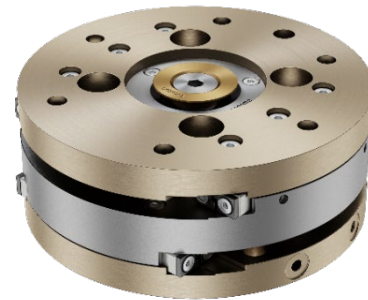
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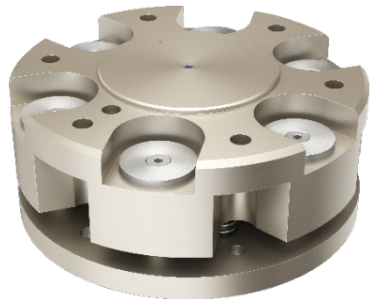
## COMPLIANCE WRISTS

Compensation of position errors in the x/y-direction up to +/- 3 mm as well as angle compensation up to 2°



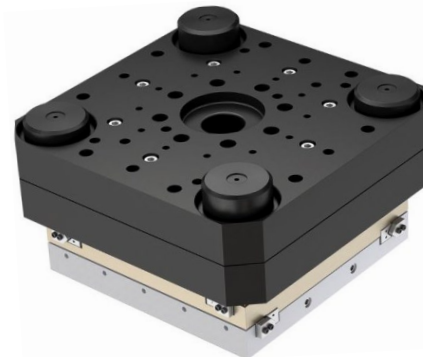
## FORCE-FREE COMPENSATING ELEMENTS

Compensation of position errors in the x/y- direction of up to +/- 25 mm



## Z-AXIS-COMPLIANCE

Scanning of heights and compensation of differences in the z-direction up to 12 mm



## RT-KA

Compensation in x/y direction up to +/- 5 mm and rotation angle compensation of up to +/- 5°

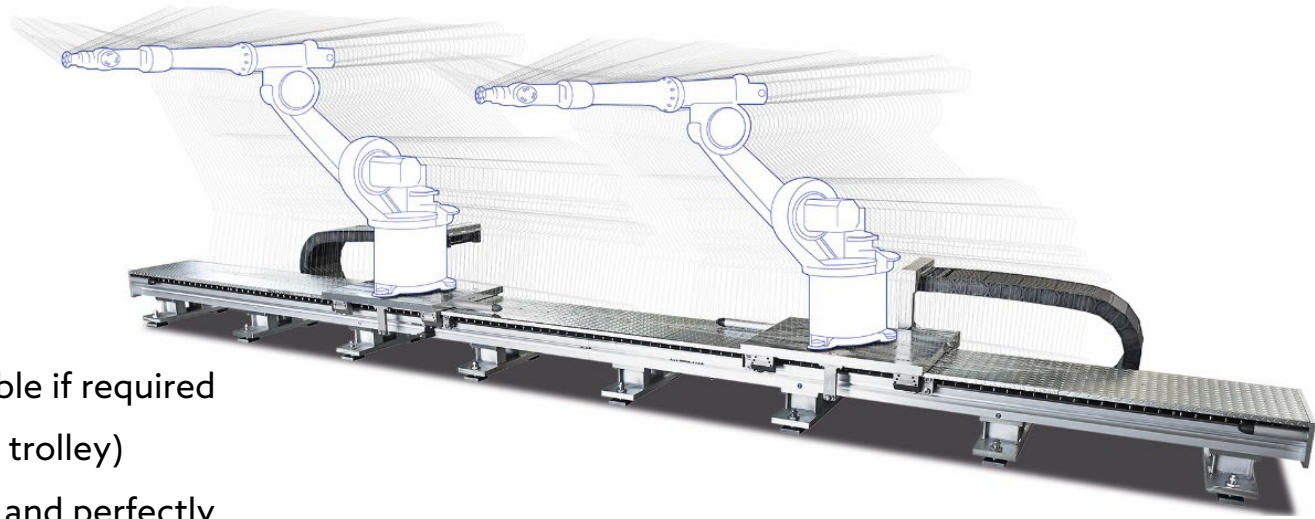
# 7<sup>th</sup> AXIS

# Simple. Robust. Flexible.

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**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER

- ✓ Highest **precision**
- ✓ **Space saving**
- ✓ Fully **accessible**
- ✓ **Extendibility** easily possible if required  
(extension and additional trolley)
- ✓ **Modular design** – flexible and perfectly  
adaptable to customer needs
- ✓ **Independent** of robot manufacturer



FOR LOADS FROM  
20 TO 12.000 KG

# 7th AXIS IN ALUMINUM & STEEL

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**IR**  
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PERIPHERIEN FÜR ROBOTER





# 7th AXIS IN ALUMINUM & STEEL

Hybridaxis IP350-BH

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**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER

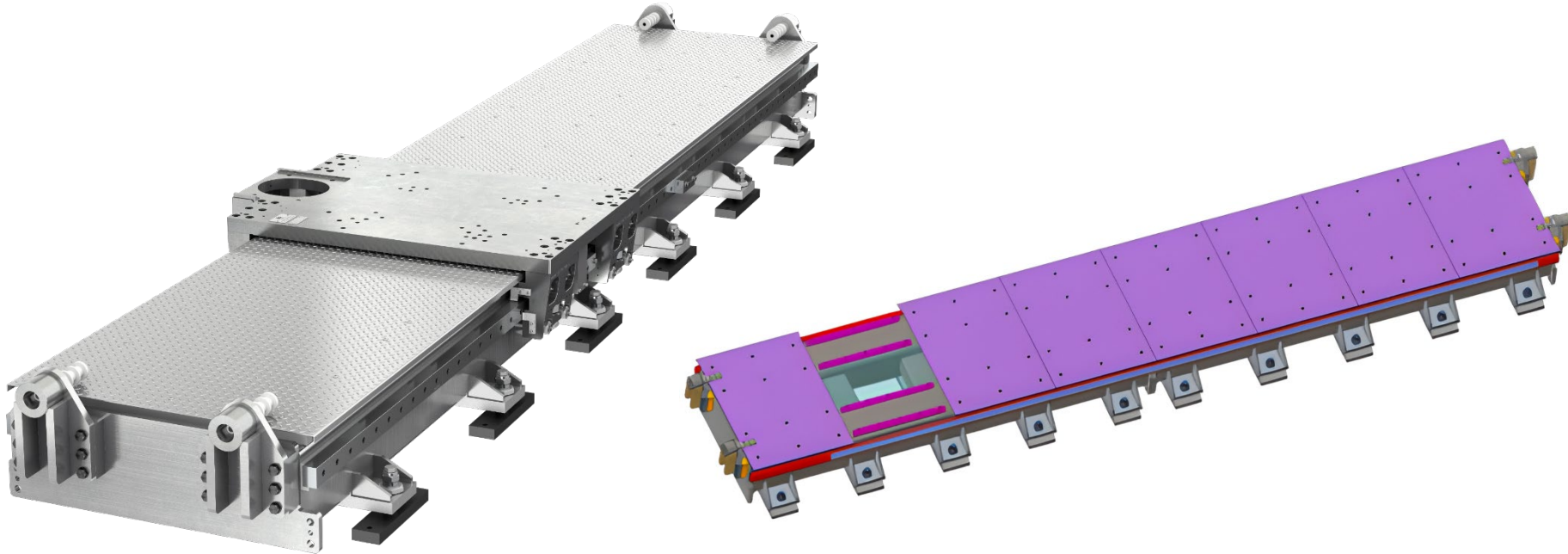


# HYBRID 7<sup>th</sup> AXIS

## The best of two worlds

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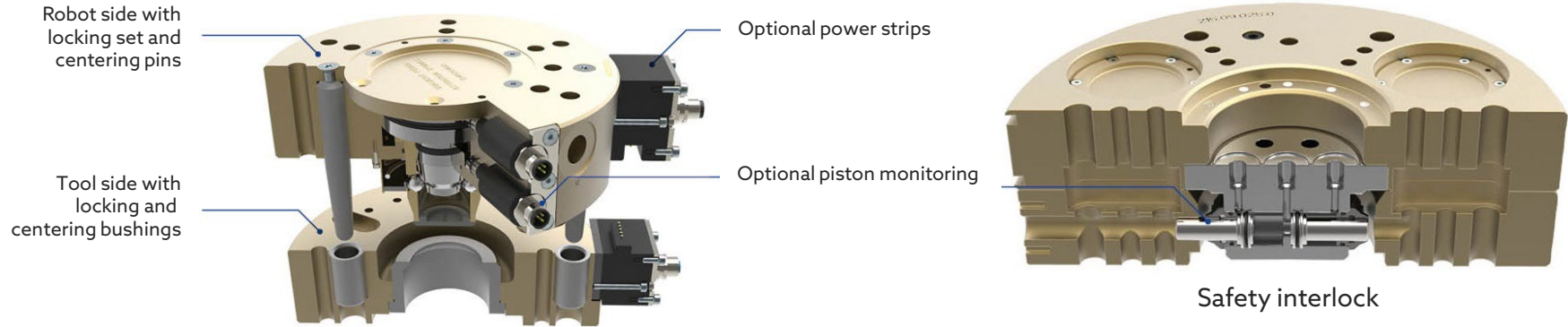
**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER



# TOOL CHANGERS TK-SERIES

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**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER



- ✓ **Compact dimensions**
- ✓ Quick and **easy coupling** thanks to extra-long centering pins
- ✓ Internal air feed-throughs
- ✓ **Integrated slot** for process-safe storage
- ✓ Handling weight of **up to 800 kg**

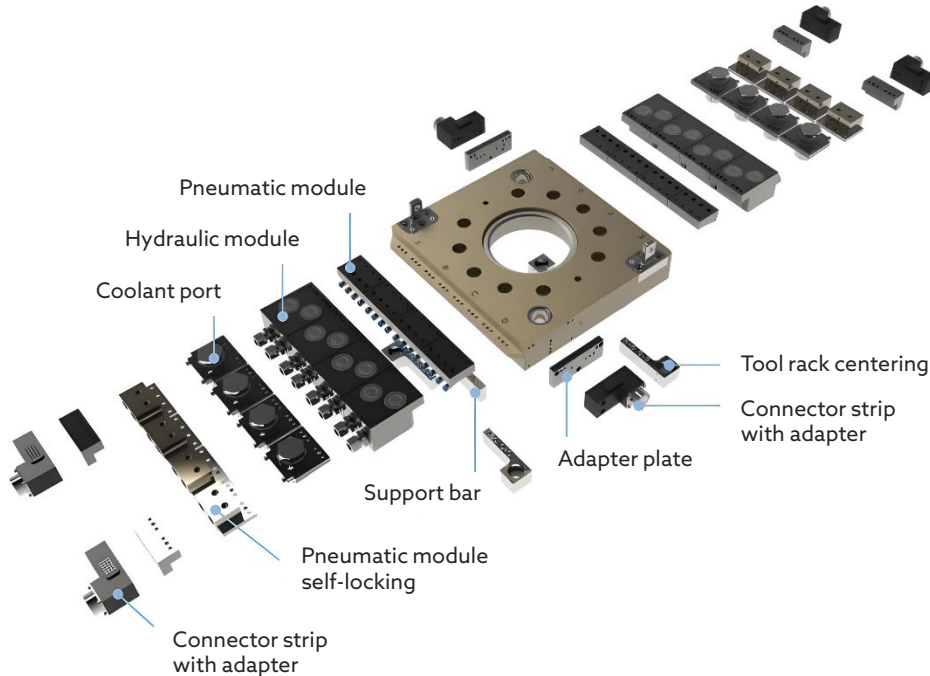
# TOOL CHANGER TK-SERIES SQUARE

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**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER

## ADVANTAGES

- ✓ Safe, redundant **locking in the event of a power failure**
- ✓ **Quick change** of tools and grippers on the robot or the gantry
- ✓ **Simple assembly**
- ✓ **High flexibility** due to short changeover times
- ✓ **High availability** and **long service life** due to perfectly matched assemblies
- ✓ **Up to 1250 kg** handling weight



# TKX-PRODUCT FAMILY

**3 drives – compatible and interchangeable**

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**IR**  
INTELLIGENTE  
PERIPHERIEN FÜR ROBOTER



- ✓ **Large portfolio** from 3 to 800 kg handling weight
- ✓ Extremely **robust and low-wear** thanks to hard chrome-plated functional parts
- ✓ **Improved compressed air transmission** thanks to specially developed seals



# MA | MECHATRONIK AUSTRIA GMBH

WE **DEVELOP**,  
WE **DIGITIZE**,  
WE ENSURE **SAFETY**.



SCAN QR CODE NOW  
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