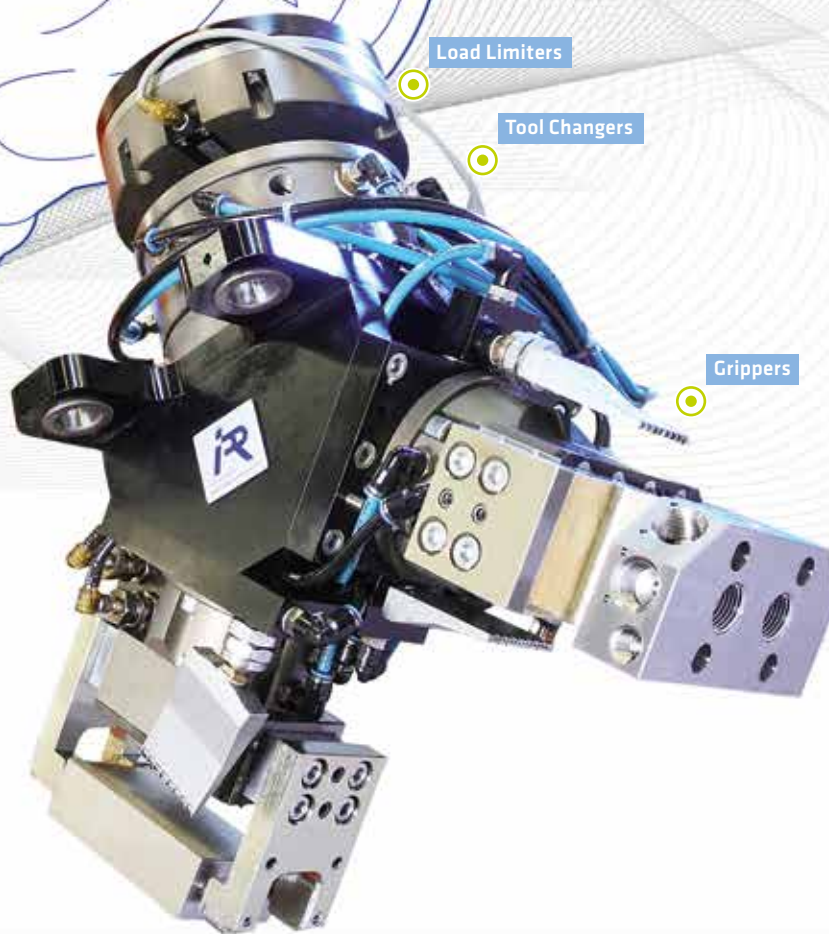


# GRIPPING TECHNOLOGY FOR INDUSTRIAL ROBOTS

## PRODUCT PORTFOLIO



## Solutions within your grip.

We are leading the way in the development and manufacturing of products for the hands and feet of robots.

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### Our product range consists of

grippers, tool changers, compensation devices, rotary actuators and load limiters in different sizes for all kinds of load ranges. Our pneumatic, electrical and hydraulic components facilitate companies of different branches the manufacturing, assembly and handling.



**Direct adaption via  
DIN/ISO interface**



**Robotic grippers: pneumatic,  
hydraulic, electric**





**Suitable for various  
applications through versatile  
accessories**

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# DIN/ISO grippers

## 2-jaw parallel grippers: IRP series

### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
IRP-13-ISO-31,5	150 <sup>1)</sup>	4.20	0.15	0.40
IRP-14-ISO-40	170 <sup>1)</sup>	6.30	0.20	0.60
IRP-15-ISO-50	300 <sup>1)</sup>	12.70	0.70	3.00
IRP-16-ISO-50	300 <sup>1)</sup>	20.00	1.25	3.00
IRP-17-ISO-80	930 <sup>1)</sup>	30.00	2.80	5.00
IRP-18-ISO-100	1,800 <sup>1)</sup>	30.00	3.20	6.50
IRP-19/20-ISO-125	4,700 <sup>1)</sup>	20.00	6.80	18.00
IRP-19/40-ISO-125	2,600 <sup>1)</sup>	40.00	6.80	9.00
IRP-20-ISO-160	7,200 <sup>1)</sup>	38.00	18.30	25.00
IRP-21/37-ISO-250	15,400 <sup>1)</sup>	37.00	37.00	80.00
IPR-21/64-ISO-250	8,900 <sup>1)</sup>	64.00	37.00	70.00

<sup>1)</sup> at 6 bar

## 2-jaw angular grippers: WG series

### Technical specifications



Model	Gripping Force [N] at distance from axis	Opening Angle [degree]	Weight [kg]	Handling Weight max. [kg]
WG-125-ISO	3,100 <sup>1)</sup> at 100 mm	30.00	2.80	8.00
WG-160-ISO	6,100 <sup>1)</sup> at 100 mm	30.00	5.90	16.00

<sup>1)</sup> at 6 bar

## 3-jaw angular grippers: WGC series

### Technical specifications



Model	Gripping Force [N] at distance from axis	Opening Angle [degree]	Weight [kg]	Handling Weight max. [kg]
WGC-125-ISO	4,500 <sup>1)</sup> at 100 mm	30	3.10	8.00
WGC-160-ISO	9,150 <sup>1)</sup> at 100 mm	30	6.45	16.00

<sup>1)</sup> at 6 bar

## 2- / 3-jaw parallel grippers with sliding guide

### 2-jaw parallel grippers with sliding guide: RP series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RP-5	150 <sup>1</sup>	4.20	0.078	0.40
RP-10	180 <sup>1</sup>	6.30	0.112	0.60
RP-11	180 <sup>1</sup>	6.30	0.112	0.60
RP-12	180 <sup>1</sup>	9.50	0.28	1.50
RP-15	300 <sup>1</sup>	12.70	0.56	3.00
RP-17	930 <sup>1</sup>	19.05	1.10	4.50
RP-18	1,580 <sup>1</sup>	31.75	3.65	6.00
RP-19	2,130 <sup>1</sup>	50.80	9.34	9.50

<sup>1</sup>) at 6 bar

### 2-jaw parallel grippers with sliding guide: RPG series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RPG-80-P	1,000 <sup>1</sup>	80.00	8.50	10.00
RPG-120-H	2,000/3,000 <sup>2</sup>	120.00	10.50	28.00
RPG-120-P	1,000 <sup>1</sup>	120.00	9.00	14.00

<sup>1</sup>) at 6 bar · <sup>2</sup>) at 60 / 100 bar

### 2-jaw parallel grippers with sliding guide: RPW series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RPW-250-1-I	155 <sup>1</sup>	19.00	0.30	0.50
RPW-250-2-I	155 <sup>1</sup>	40.00	0.34	0.50
RPW-375-1-I	330 <sup>1</sup>	25.40	0.59	1.50
RPW-375-2-I	330 <sup>1</sup>	50.80	0.91	1.50
RPW-375-3-I	330 <sup>1</sup>	75.80	1.10	1.50
RPW-500-1-I	690 <sup>1</sup>	38.10	1.60	4.00
RPW-500-2-I	690 <sup>1</sup>	63.50	2.00	4.00
RPW-500-3-I	690 <sup>1</sup>	84.90	2.636	4.00
RPW-500-4-I	690 <sup>1</sup>	105.00	3.262	4.00
RPW-625-1-I	1,040 <sup>1</sup>	50.80	2.90	8.00
RPW-625-2-I	1,040 <sup>1</sup>	88.90	3.50	8.00
RPW-750-I	1,550 <sup>1</sup>	114.00	6.95	15.00
RPW-1200-I	3,027 <sup>1</sup>	120.00	18.80	20.00

<sup>1</sup>) at 6 bar



## 2- / 3-jaw parallel grippers with sliding guide

### 2-jaw parallel grippers with sliding guide: IPW series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
IPW-120	4,000 <sup>1)</sup>	120.00	45.00	70.00
IPW-160	3,600 <sup>1)</sup>	160.00	45.00	55.00
IPW-200	8,000 <sup>1)</sup>	198.00	70.00	85.00

<sup>1)</sup> at 6 bar

### 2-jaw parallel grippers with sliding guide: IPG-S series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
IPG-S-120-20-FA	1,830 <sup>1)</sup>	20.00	2.70	8.00

<sup>1)</sup> at 6 bar

### 3-jaw parallel grippers with sliding guide: RPC series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RPC-320-I	1,332 <sup>1)</sup>	10.00	0.95	3.00
RPC-344-I	3,996 <sup>1)</sup>	22.00	3.40	8.00
RPC-368-I	13,000 <sup>1)</sup>	34.90	9.70	25.00
RPC-468-I	15,000 <sup>1)</sup>	40.00	45.00	70.00

<sup>1)</sup> at 6 bar

### 3-jaw parallel grippers with sliding guide: IPC series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
IPC-140-30	4,617 <sup>1)</sup>	30.00	3.40	20.00

<sup>1)</sup> at 6 bar

### 3-jaw parallel grippers with sliding guide: IPC-S series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
IPC-S-120-20-FA	1,830 <sup>1)</sup>	20.00	2.90	8.00

<sup>1)</sup> at 6 bar

## 2- / 3-jaw angular grippers with sliding guide

### 2-jaw angular grippers with sliding guide: RA series

#### Technical specifications



Model	Gripping Force [N]	Opening Angle [degree]	Weight [kg]	Handling Weight max. [kg]
RA-5	89 <sup>1)</sup>	30	0.11	0.60
RA-6	196 <sup>1)</sup>	30	0.31	1.00

<sup>1)</sup> at 6 bar

### 2-jaw angular grippers with sliding guide: WG series

#### Technical specifications



Model	Gripping Force [N] at distance from axis	Opening Angle [degree]	Weight [kg]	Handling Weight max. [kg]
WG-100	80 <sup>1)</sup> at 30 mm	180	0.60	0.10
WG-25	136 <sup>1)</sup> at 43 mm	180	1.10	0.20
WG-35	380 <sup>1)</sup> at 42 mm	180	2.70	4.00

<sup>1)</sup> at 6 bar

### 3-jaw angular grippers with sliding guide: WGC series

#### Technical specifications



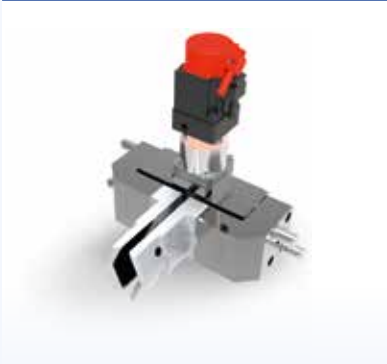
Model	Gripping Force [N] at distance from axis	Opening Angle [degree]	Weight [kg]	Handling Weight max. [kg]
WGC-80	1,600 <sup>1)</sup> at 50 mm	30	0.70	3.00

<sup>1)</sup> at 6 bar

## 2-jaw parallel grippers electrical / pneumatic

### 2-jaw parallel grippers electrical, pneumatic: RPW-Hybrid series

#### Technical specifications

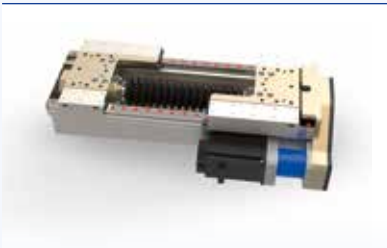


Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RPW-375-1-I-Hybrid	330 <sup>1)</sup>	25.40	1.39	1.50
RPW-375-2-I-Hybrid	330 <sup>1)</sup>	50.80	1.71	1.50
RPW-375-3-I-Hybrid	330 <sup>1)</sup>	75.80	1.90	1.50

<sup>1)</sup> at 6 bar

### 2-jaw parallel grippers electrical: Long-stroke spindle gripper

#### Technical specifications



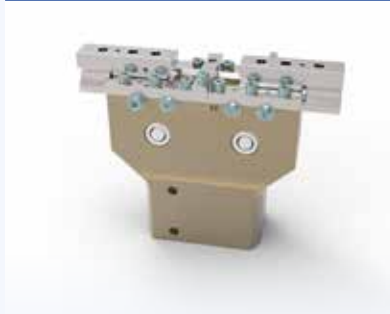
Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
ISG-90-250-E	6,000	250.00	50.00	150.00



## 2-jaw parallel grippers with roller bearing

### 2-jaw parallel grippers with roller bearing: RP series

#### Technical specifications

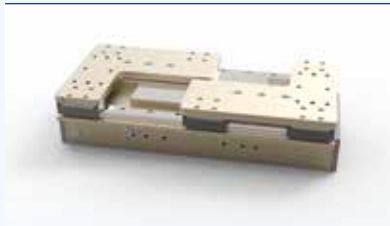


Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RP-50	90 <sup>1)</sup>	12.70	0.15	0.10
RP-100	140 <sup>1)</sup>	25.40	0.23	0.20
RP-25	245 <sup>1)</sup>	28.70	0.55	1.00
RP-35	720 <sup>1)</sup>	25.40	1.70	5.00
RP-40	850 <sup>1)</sup>	50.80	2.70	8.00
RP-43	1,750 <sup>1)</sup>	76.20	7.30	25.00

<sup>1)</sup> at 6 bar

### 2-jaw parallel grippers with roller bearing: LPG series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
LPG-160	5,950 <sup>1)</sup>	160.00	53.00	120.00

<sup>1)</sup> at 6 bar

### 2-jaw parallel grippers with roller bearing: RPL series

#### Technical specifications



Model	Gripping Force [N]	Stroke total [mm]	Weight [kg]	Handling Weight max. [kg]
RPL-1	116 <sup>1)</sup>	6.40	0.07	0.15
RPL-2	116 <sup>1)</sup>	12.70	0.09	0.15
RPL-3	160 <sup>1)</sup>	19.10	0.14	0.30
RPL-4	160 <sup>1)</sup>	25.40	0.17	0.30

<sup>1)</sup> at 6 bar

# Robots accessoires

## Tool changers: TK series

### Technical specifications



Model	Handling Weight max. [kg]	Weight [kg]	Height [mm]	Diameter [mm]	F <sub>z</sub> max. [N]	M <sub>z</sub> max. [Nm]
TK-40	3.00	0.27	38.00	60	900 <sup>1)</sup>	29 <sup>1)</sup>
TK-50	12.00	0.77	56.00	85	3,340 <sup>1)</sup>	136 <sup>1)</sup>
TK-63	30.00	1.68	65.00	110	4,600 <sup>1)</sup>	740 <sup>1)</sup>
TK-80	60.00	3.06	76.00	140	8,900 <sup>1)</sup>	1,000 <sup>1)</sup>
TK-125	150.00	6.10	115.00	158	30,000 <sup>1)</sup>	2,000 <sup>1)</sup>
TK-160	250.00	9.45	115.00	200	35,500 <sup>1)</sup>	2,000 <sup>1)</sup>
TK-200	120.00	13.70	89.50	270	3 x 8,900 <sup>1)</sup>	2,000 <sup>1)</sup>
TK-300-AI	450.00	21.50	110.00	290	3 x 35,500 <sup>1)</sup>	2,000 <sup>1)</sup>
TK-300-St	800.00	42.50	110.00	290	3 x 35,500 <sup>1)</sup>	2,000 <sup>1)</sup>

<sup>1)</sup> at 6 bar

## Compliance wrist: FM series

### Technical specifications



Model	Handling Weight max. [kg]	X/Y-Alignment [mm]	Weight [kg]	Height [mm]	Diameter [mm]
FM-50	0.60 - 1.10	± 3	0.15	40	50
FM-80	1.20 - 2.40	± 3	0.26	42	79
FM-100	2.50 - 3.50	± 3	0.42	42	99
FM-125	3.70 - 7.00	± 2	1.20	50	125
FM-160	7.10 - 18.00	± 2	1.85	50	159
FM-200	18.00 - 52.00	± 3	8.00	56	198
FM-250	52.00 - 90.00	± 3	9.80	62	248
FM-300	52.00 - 150.00	± 2.5	5.60	50	298

## Lateral alignment device: KA series

### Technical specifications



Model	Handling Weight max. [kg]	X/Y-Alignment [mm]	Weight [kg]	Height [mm]	Diameter [mm]
KA-65	0.50	± 1.5	0.40	42	65
KA-80	1.00	± 2	0.55	42	79
KA-100	2.00	± 2	1.10	42	99
KA-125	5.00	± 3	2.20	50	125
KA-160	10.00	± 4	3.45	50	159
KA-200	40.00	± 12	8.40	65	198
KA-250	80.00	± 14	17.00	72	249
KA-300	250.00	± 25	48.00	96	300x300
KA-300-light	180.00	± 25	36.00	96	300x300
KA-300-S	800.00	± 25	52.00	106	300x300

# Robots accessoires

## Z-axis compliance device: ZN series

### Technical specifications



Model	Handling Weight max. [kg]	Misalignment capability in 2-axis direction [mm]	Spring force range [N]	Locking Force pneumatic [N]	Weight [kg]
ZN-50	1.00	8.00	10/20	-	0.19
ZN-80	2.00	8.00	20/40	150 <sup>1)</sup>	0.53
ZN-100	3.00	10.00	40/180	380 <sup>1)</sup>	1.00
ZN-125	8.00	12.00	200/300	600 <sup>1)</sup>	1.85
ZN-160	20.00	12.00	200/400	600 <sup>1)</sup>	3.40
ZN-200	40.00	12.00	400/1,000	1,700 <sup>1)</sup>	5.750
ZN-250	160.00	12.00	400/1,500	1,950 <sup>1)</sup>	12.20
ZN-300	300.00	12.00	400/2,000	2,200 <sup>1)</sup>	18.30

<sup>1)</sup> at 6 bar

## Load limiter: ULS- / ULD series (without / with internal cable routing)

### Technical specifications



Model	Handling Weight max. [kg]	Deflection in Z-Direction [mm]	Deflection in X/Y-Direction [degree]	Torsional Deflection [degree]	Weight [kg]
ULS-60	1.00 - 2.00	11.00	8	360	0.33
ULS-80	4.00	11.90	10	360	0.57
ULS-100	8.00	13.60	12	360	0.83
ULS-125	12.00	11.90	10	360	1.53
ULS-160	18.00 - 20.00	14.50	7	360	3.65
ULS-200	50.00 - 55.00	9.50	4	360	7.20
ULS-250	75.00 - 80.00	16.00	5	360	16.10
ULS-300	120.00	25.00	6	360	25.50
ULD-100	7.00 - 8.00	12.00	9	± 20	1.00
ULD-160	18.00 - 20.00	15.00	5	± 20	3.60
ULD-300	120.00	23.00	5	± 20	17.50



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