Product catalog 2013



rsp robot system products

Robot System Products® has been the industry leader in high-performance robotic peripheral products for over 30 years. Our guiding principle is to provide the highest quality, most reliable and affordable robot tooling products on the market. Our commitment to outstanding customer service and strong retailer partnerships is unrivalled.

Robot System Products constantly explores emerging technologies to market robotic peripherals that combine leading edge design with performance innovation for production with robots 24 hour per day, 7 days a week, all year long. It is this dedication that has made RSP the most recognized and reputable robot peripheral products brand in the world.

Robot System Products has a wide range of standard robot peripheral products:

- Tool changers
- Swivels
- Swivels with tool changer
- Grippers
- Hose packages
- Valve units
- Complete function package
- Vacuum gripping tools
- Deburring tool system

RSP products are available for all major robot brands and come with complete documentation. 3D-models for computer simulation are available for download at www.robotsystemproducts.com.







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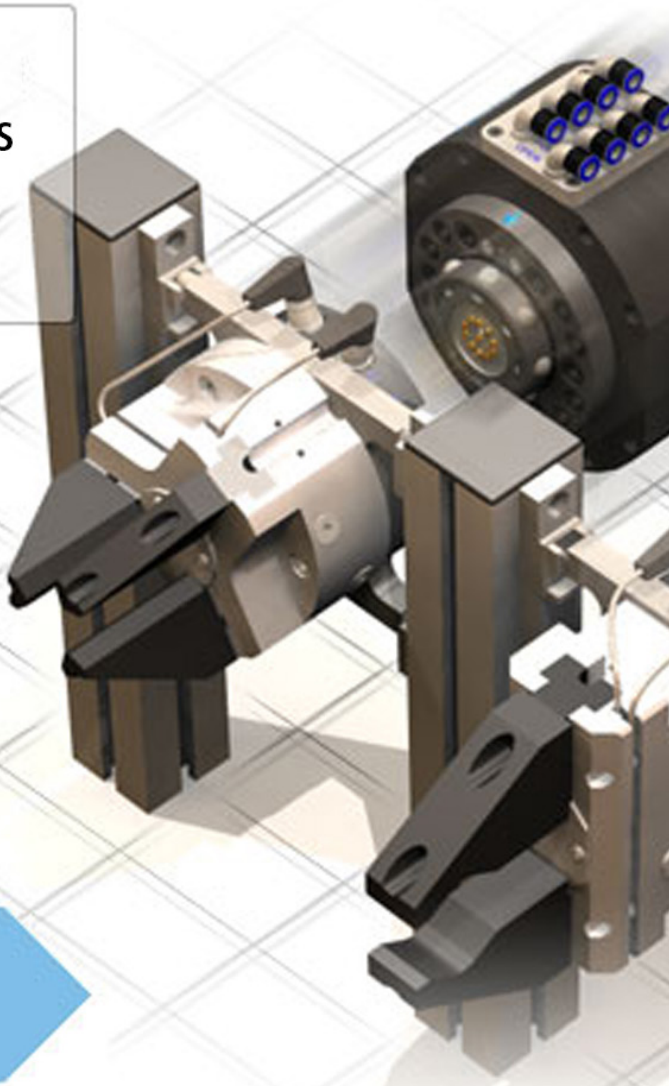
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Robot System Products AB
Isolatorvägen 4
SE-721 37 Västerås
Sweden
www.robotsystemproducts.com
Phone: +46 (0)21 81 66 00
Fax: +46 (0)21 81 66 01

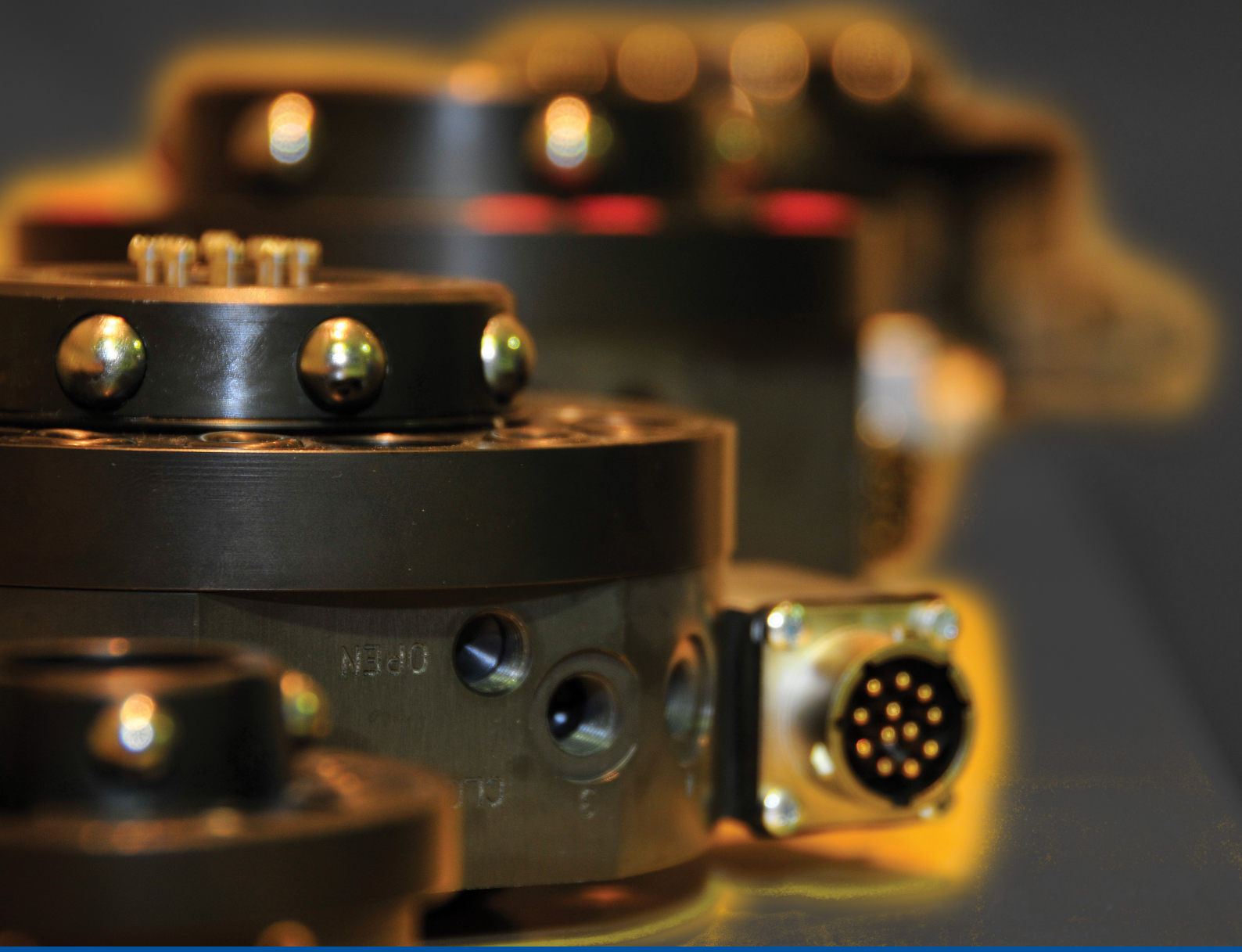
COMPLETE TOOL SYSTEMS FOR YOUR ROBOT



Locked by TrueConnect™

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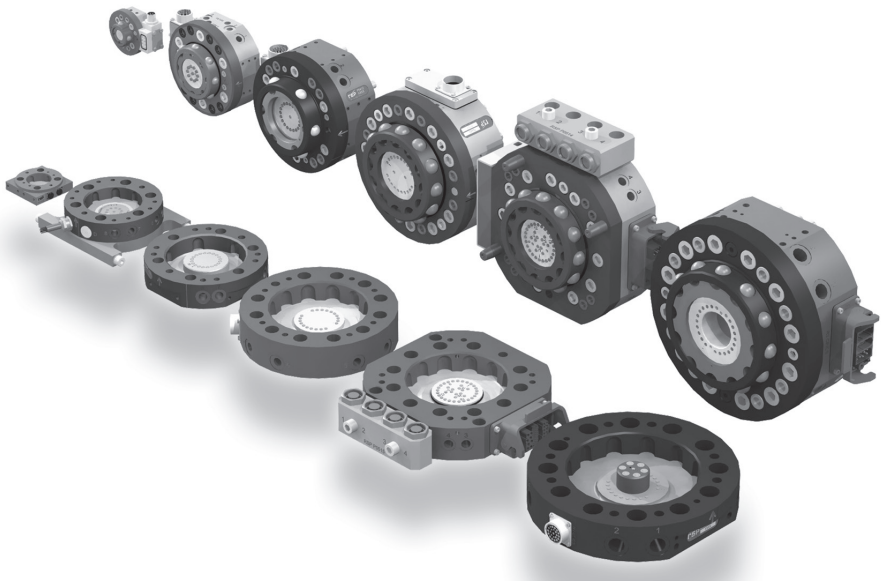


Tool changers and tool attachments

Tool changers

The new generation tool changer gives maximum flexibility to the robot. With low weight, compact and robust design and high safety they function continously on a daily basis changing your tools. The patented locking device TrueConnect™ has an unique design, that doesn't require exact positioning when docking with different tools. The locking device lines up the electrical connector pins automatically to decrease wear and increase lifetime. TrueConnect™ provides absolute position repeatability and is the fastest and most durable tool changer on the market.

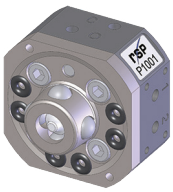
- Fast docking < 20 mm docking stroke
- Forgiving locking device lines up automatically
- Robust design for high torque applications
- Low maintenance
- 3D models for Robot CAD systems

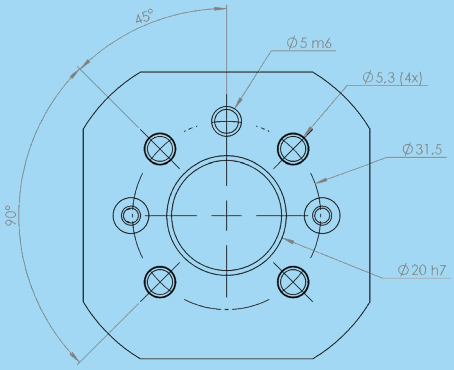


Locked by TrueConnect™

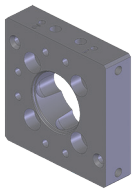
Material handling tool changers and tool attachments

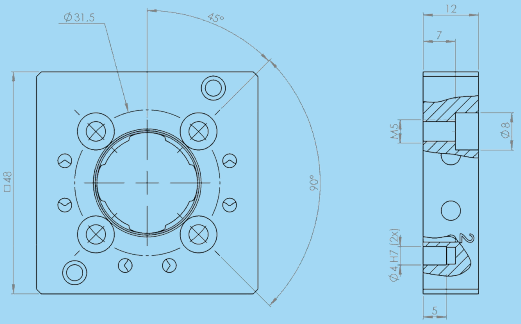
P1001
Tool changer TC5-6



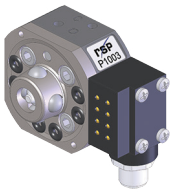


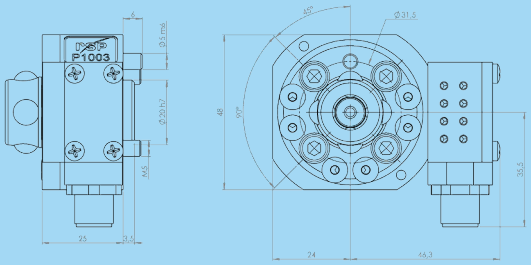
P1002
Tool attachment TA5-6



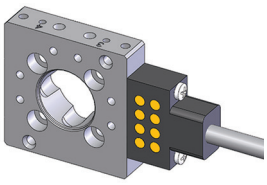


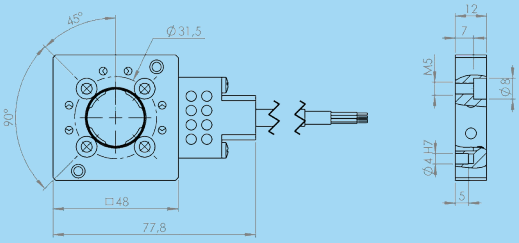
P1003
Tool changer TC5-6E





P1004
Tool attachment TA5-6E





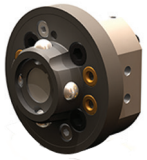
TC/TA5

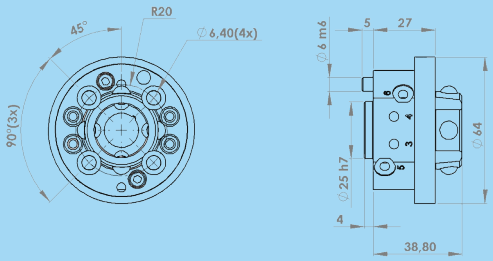
Type	TC5-6	TA5-6	TC5-6E	TA5-6E
Article number	P1001	P1002	P1003	P1004
Weight (kg)	0.2	0.05	0.26	0.07
Mechanical interface	ISO 9409-1 31.5-4-M5			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 50 N			
Mz	± 40 Nm			
Mx/My	± 40 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	8	6	6	4
Dedicated air ducts	1 TC Open (6-10 bar)	-	1 TC Open (6-10 bar)	-
	1 TC Close (6- 10 bar)	-	1 TC Close (6- 10 bar)	-
Max air pressure	10 bar			
Air flow	100 l/min			
Air connection	M5			
Pneumatic valves	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	-		8	
Max current	-		2 A	
Max voltage	-		60 V	
Connections	-		M12 8P	7 x 0.25 cable

Options	Article number	Description
Options to TA5-6	P1005	Tool stand kit

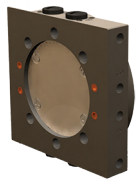
Material handling tool changers and tool attachments

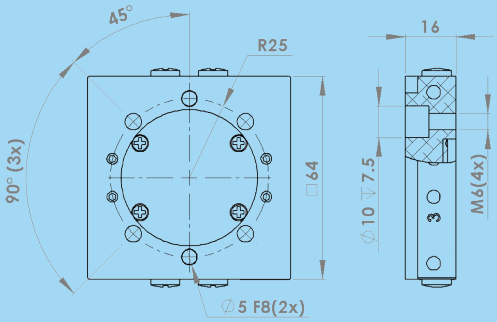
P0101
Tool changer TC20-4





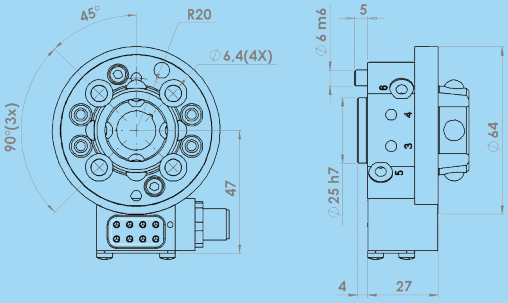
P0102
Tool attachment TA20-4
P0123
Tool attachment TA20-4, steel





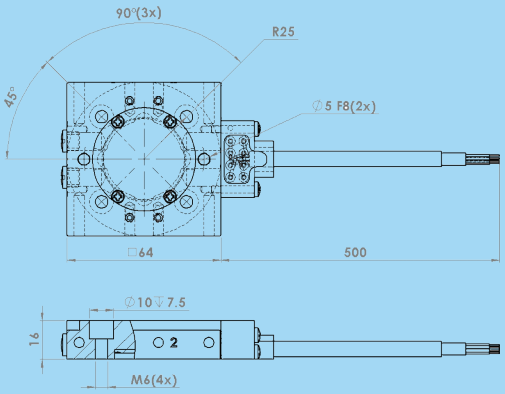
P0103
Tool changer TC20-4E





P0104
Tool attachment TA20-4E
0.3 m cable with open end
P0124
Tool attachment TA20-4E,
Steel
0.3 m cable with open end





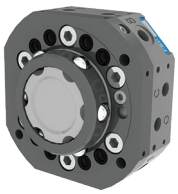
TC/TA20

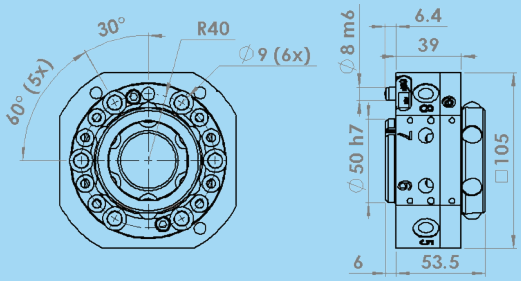
Type	TC20-4	TA20-4	TA20-4 Steel	TC20-4E	TA20-4E	TA20-4E Steel
Article number	P0101	P0102	P0123	P0103	P0104	P0124
Weight (kg)	0.38	0.1	0.29	0.42	0.15	0.31
Mechanical interface	ISO 9409-1 40-4-M6	ISO 9409-1 50-4-M6	ISO 9409-1 50-4-M6	ISO 9409-1 40-4-M6	ISO 9409-1 50-4-M6	ISO 9409-1 50-4-M6
Working temperature	+10°C - +60°C					
IP classification	IP 54					
	Maximum tool load					
Fz	± 200 N					
Mz	± 158 Nm					
Mx/My	± 200 Nm	± 100 Nm	± 200 Nm	± 200 Nm	± 100 Nm	± 200 Nm
	Air ducts without automatic shut off function					
Number of air ducts	6	4		6	4	
Dedicated air ducts	1 TC Open (6-10 bar)	-		1 TC Open (6-10 bar)	-	
	1 TC Close (6- 10 bar)	-		1 TC Close(6- 10 bar)	-	
Max air pressure	10 bar					
Air flow	150 l/min					
Air connection	M5					
Pneumatic valve	-					
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content					
	Electrical signals					
Number of signals	-			8		
Dedicated signals	-					
	-					
	-					
	-					
Max current	-			2.0 A		
Max voltage	-			60 V		
Connections	-			M12 8P	8x 0.25mm² cable	

Options	Article number	Description
Options to TC20 (TC20-4 can hold two external options)	P1113	8 signals (one included in TC20-4E)
	P1115	4 additional air
Options to TA20 (TA20-4 can hold two external options)	P1114	8 signals (one included in TA20-4E)
	P1116	4 additional air
	P0142	Tool stand kit 20
Cables for TC20-8E (robot side)	P0025	2 m signal cable M12 8P - M12 8S
	P0025-30	3 m signal cable M12 8P - M12 8S
Adaptation kits for TC20	P0105	Adaptation kit to TC20 for ABB IRB 2600/12-20, 4600/20, 2400/10-16, 4400L
	P0162	Adaptation kit to TC20 for Kuka KR15-2, KR16, KR30L16
	P1118	Adaptation kit to TC20 for Fanuc M20iA/20
	P1117	Adaption kit to TC20 for ISO 9409-1 31.5-4-M5

Material handling tool changers and tool attachments

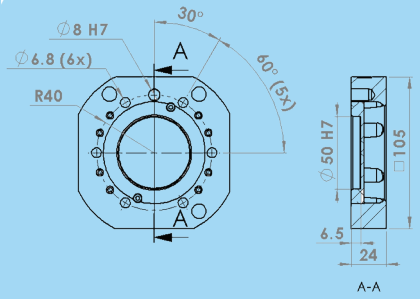
P1301
Tool changer TC60-8





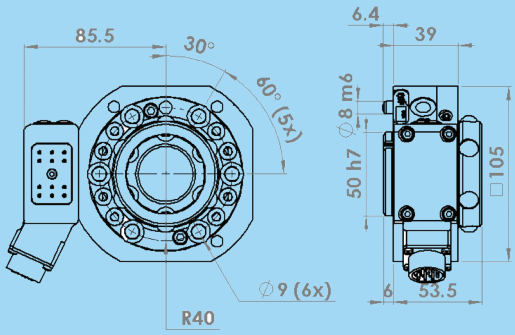
P1302
Tool attachment TA60-8





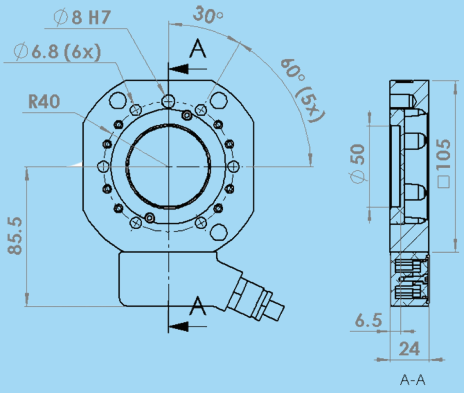
P1303
Tool changer TC60-6E





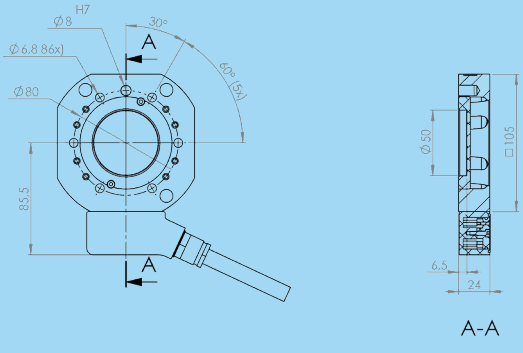
P1304
Tool attachment TA60-6E
0.5 m cable with open end





P1321
Tool attachment TA60-6E17
0.5 m cable with open end





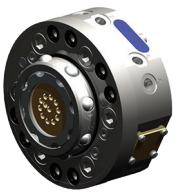
TC/TA60

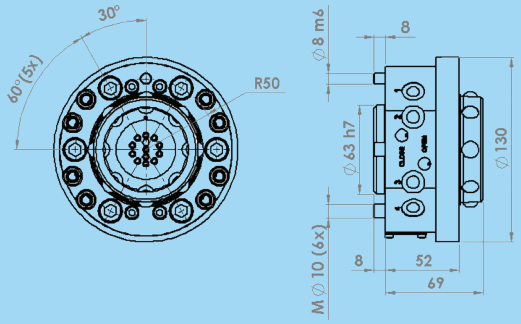
Type	TC60-8	TA60-8	TC60-6E	TA60-6E	TA60-6E17
Article number	P1301	P1302	P1303	P1304	P1321
Weight (kg)	1.8	1.0	1.9	1.1	1.1
Mechanical interface	ISO 9409-1 80-6-M8				
Working temperature	+10°C - +60°C				
IP classification	IP 54				
	Maximum tool load				
Fz	± 600 N				
Mz	± 600 Nm				
Mx/My	± 600 Nm				
	Air ducts without automatic shut off function				
Number of air ducts	10	8	10	8	
Dedicated air ducts	1 TC Open (6-10 bar)	-	1 TC Open (6-10 bar)	-	
	1 TC Close (6- 10 bar)	-	1 TC Close (6- 10 bar)	-	
Max air pressure	10 bar				
Air flow	400 l/min				
Air connection	G 1/8"				
Pneumatic valve	-				
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content				
	Electrical signals				
Number of signals	-		12		17
Max current	-		3.0 A		
Max voltage	-		60 V		
Connections	-		12P Souriau	0.8m 12x 0.5mm² open end	0.8m 17x 0. 5mm² open end

Options	Article number	Description
Options to TC60-8	P1305	12 signals (included in TC60-6E)
	P1307	8 signal power (option P1314 is recomended)
	P1311	TC 19 signals
	P1309	Magnetic sensor Open (requires option P1311 or P1320)
	P1310	Magnetic sensor Close (requires option P1311 or P1320)
	P1314	Guide pins
	P1320	17 signals, hollow vrist manifolder
Options to TA60-8	P1306	12 signals (one included in TA60-8E)
	P1308	8 signals power
	P1312	17 signals
	P1313	Tool attachment brackets kit 60
	P0423	Tool stand kit 100/60
Cables and connectors for TC60-8E robot side	P8116-30	3 m signal cable 12S Souriau - open end
	P8006	12S Souriau connector
	P8134-30	3 m signal cable 12S Souriau power - open end
	P8149-30	3 m signal cable 19S compact Souriau- open end
	P8008	19S compact Souriau connector

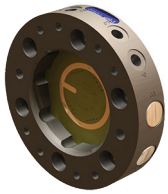
Material handling tool changers and tool attachments

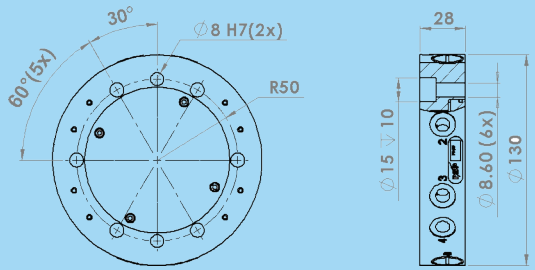
P0401
Tool changer TC100-8



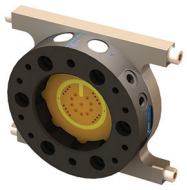


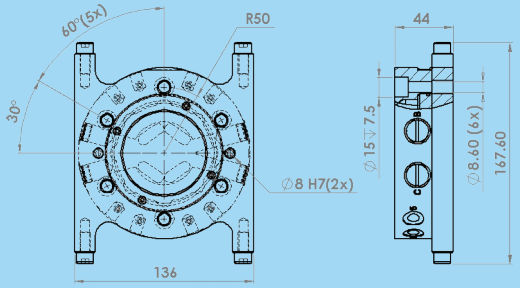
P0407
Tool attachment TA100-8, round





P0402
Tool attachment TA100-8, square





TC/TA100

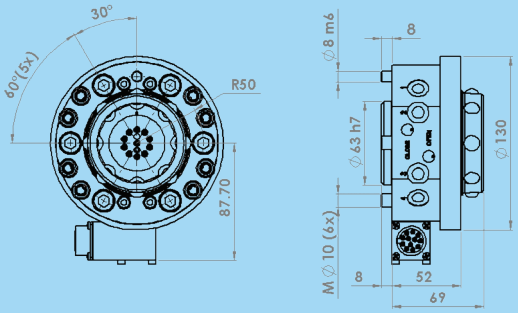
Type	TC100-8	TA100-8, Round	TA100-8, Square
Article number	P0401	P0407	P0402
Weight (kg)	2.9	1.5	2.2
Mechanical interface	ISO 9409-1 100-6-M10		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 1200 N		
Mz	± 1000 Nm		
Mx/My	± 1000 Nm		
	Air ducts without automatic shut off function		
Number of air ducts	10	8	8
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6- 10 bar)	-	
Max air pressure	10 bar		
Air flow	800 l/min		
Air connection	G 1/8"		
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		

Options	Article number	Description
Options to TA100	P0423	Tool stand kit 100/60

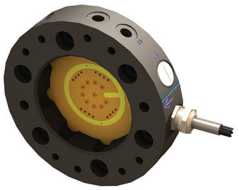
Material handling tool changers and tool attachments

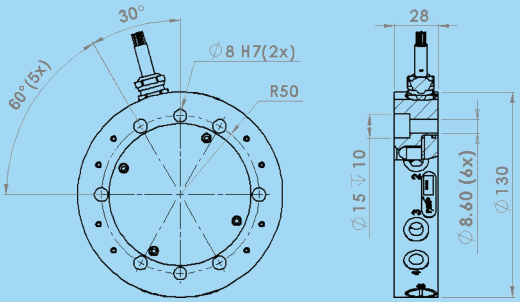
P0403
Tool changer TC100-8E



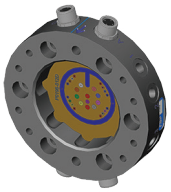


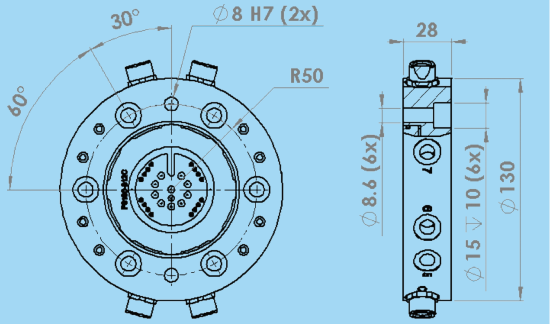
P0409
Tool attachment TA100-8E, 1 m cable with open end, round



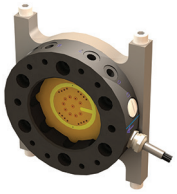


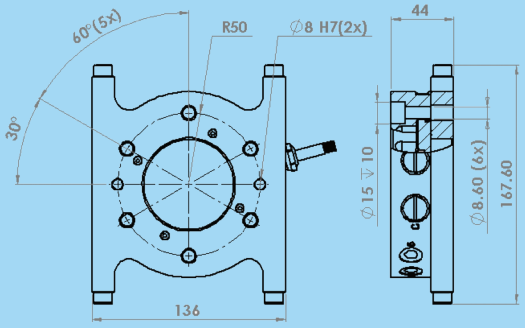
P0418
Tool attachment TA100-8E, 4xM12 connectors, round





P0404
Tool attachment TA100-8E, 1 m cable with open end, square





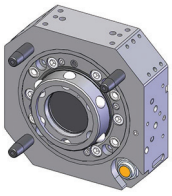
TC/TA100

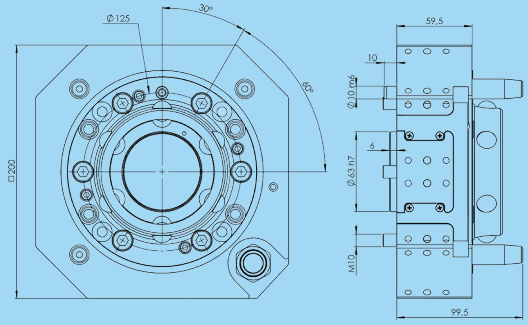
Type	TC100-8E	TA100-8E, round	TA100-8E, round	TA100-8E, Square
Article number	P0403	P0409	P0418	P0404
Weight (kg)	3	1.5	1.5	2.2
Mechanical interface	ISO 9409-1 100-6-M10			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 1200 N			
Mz	± 1000 Nm			
Mx/My	± 1000 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	10	8		
Dedicated air ducts	1 TC Open (6-10 bar)	-		
	1 TC Close (6- 10 bar)	-		
Max air pressure	10 bar			
Air flow	800 l/min			
Air connection	G 1/8"			
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	12	10	16	10
Dedicated signals	1 +24 V DC		4x 24 V DC	1 +24 V DC
	1 0 DC		4x 0 DC	1 0 DC
	1 TC Opened	-		
	1 TC Coupled	-		
Max current	5.0 A			
Max voltage	60 V			
Connections	12P Souriau	0.9m 10x 0.5mm² cable	4x M12 4S	0.9m 10x 0.5mm² cable

Options	Article number	Description
Cables and connectors for TC100-8E	P8116-30	3 m signal cable12S Souriau - open end
	P8116-40	4 m signal cable12S Souriau - open end
	P8006	12S Souriau connector
Options to TA100	P0423	Square tool attachment brackets kit 100/60

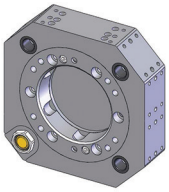
Material handling tool changers and tool attachments

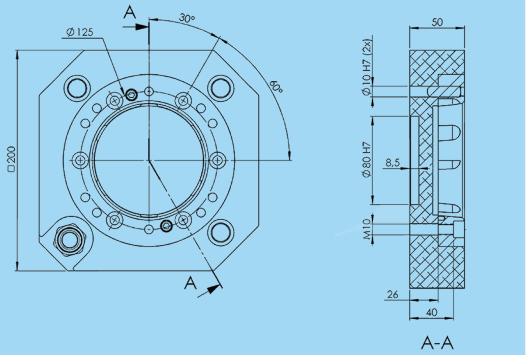
P6701
Tool changer TC240-1



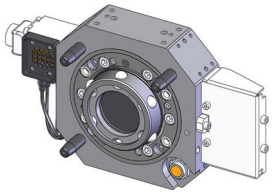


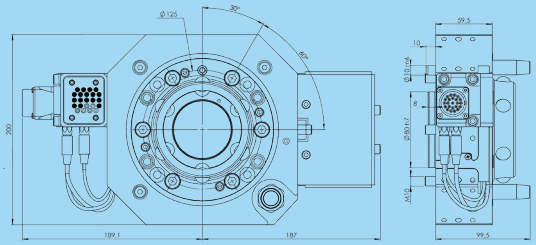
P6702
Tool attachment TA240-1



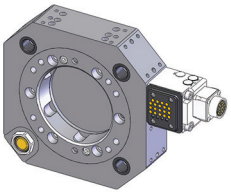


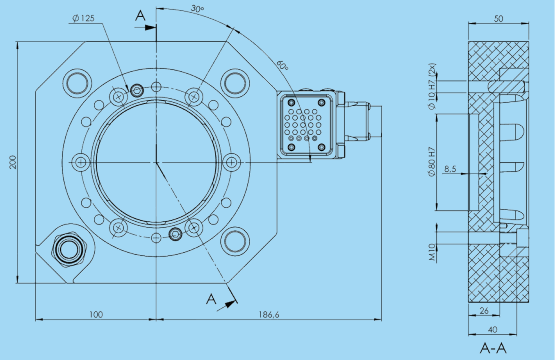
P6703
Tool changer TC240-1EV





P6704
Tool attachment TA240-1E





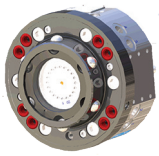
TC/TA240

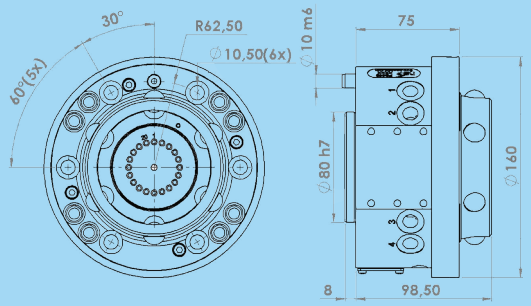
Type	TC240-1	TA240-1	TC240-1EV	TA240-1E
Article number	P6701	P6702	P6703	P6704
Weight (kg)	8.3	5.1	8.8	5.3
Mechanical interface	ISO 9409-1 125-6-M10 (center tap both Ø63 and Ø80)			
Working temperature	+10°C - +60°C			
IP classification	IP54			
	Maximum tool load			
Fz	± 2750 N			
Mz	± 1790 Nm			
Mx/My	± 1790 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	3	1	1	
Dedicated air ducts	1 TC Open (6-10 bar)	-	1 TC Open/Close	-
	1 TC Close (6-10 bar)	-	-	
Max air pressure	0-10 bar			
Air flow	2000 l/min			
Air connection	1x G1/2", 2x G1/8"	G1/2"	G1/2"	
Pneumatic valve	-	-	Option P6718	-
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	-		23	17
Dedicated signals	-		1 24V DC	-
	-		1 0V DC	-
	-		1 TC opened	-
	-		1 TC closed	-
	-		2 TC valves	-
Max current	-		5 A	
Max voltage	-		60 V	
Connections	-		23P Souriau	19S Souriau

Options	Article number	Description
Options to TC240	P6711	Signal interface Souriau (included in TC240-1EV)
	P6719	Magnetic sensors open and close (included in TC240--1EV and TC240-SWx)
Options to TA240	P6721	Signal interface Souriau (included in TA240-1E)
Cables and connectors for TC240	P8129-50	5 m signal cable 23 S - open end
	P8002	23 P Souriau connector
Cables and connectors for TA240	P8112-20	2 m signal cable 23P - open end
	P8001	23P Souriau connector

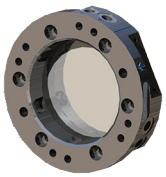
Material handling tool changers and tool attachments

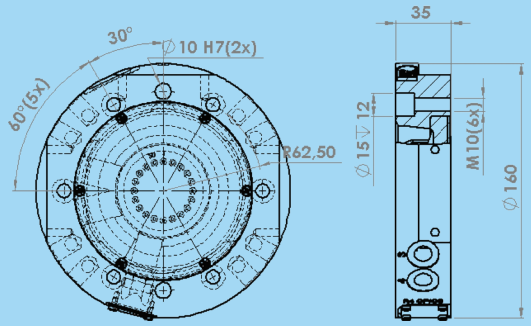
P6411
Tool changer TC250-8



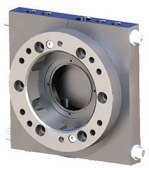


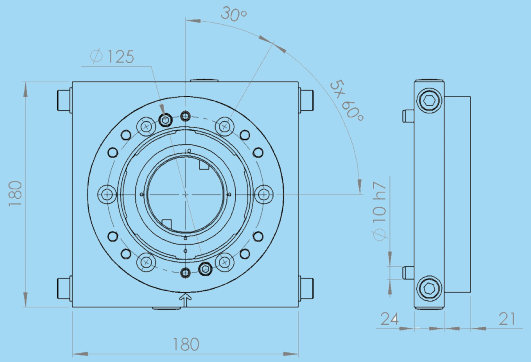
P6417
Tool attachment TA250-8, round





P6474
Tool attachment TA250-8, square





TC/TA250

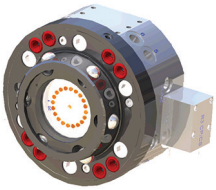
*TC250 fits robots with centering diameter (d3) 63mm and 80mm

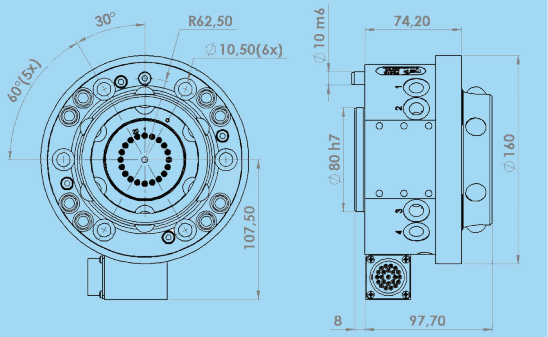
Type	TC250-8	TA250-8, round	TA250-8, square
Article number	P6411	P6417	P6474
Weight (kg)	6.0	2.6	3.5
Mechanical interface	ISO 9409-1 125-6-M10*		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 2500 N		
Mz	± 1790 Nm		
Mx/My	± 1790 Nm		
	Air ducts without automatic shut off function		
Number of air ducts	10	8	
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6- 10 bar)	-	
Max air pressure	10 bar		
Air flow	1600 l/min		
Air connection	G 1/4", 2x G 1/8"	G 1/4"	
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		

Options	Article number	Description
Options to TA250	P6472	Tool stand kit 250

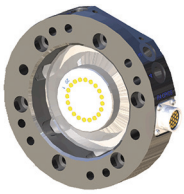
Material handling tool changers and tool attachments

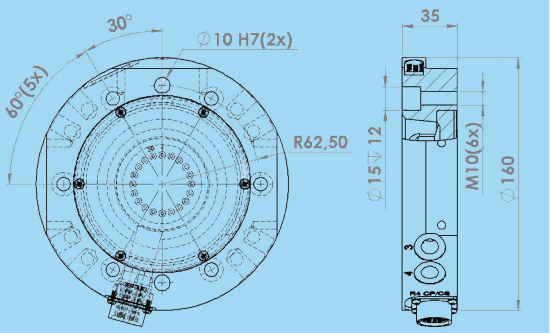
P6412
Tool changer TC250-8E



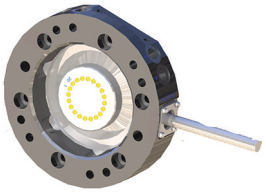


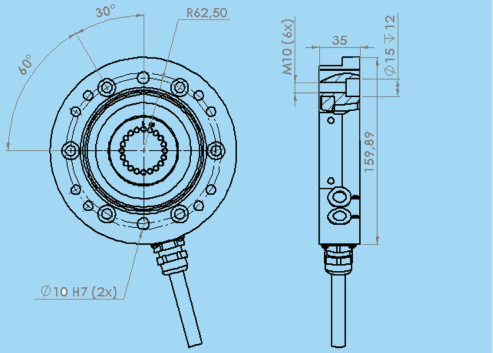
P6418
Tool attachment TA250-8E, 19S connector,round



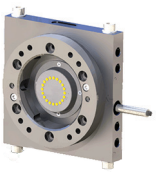


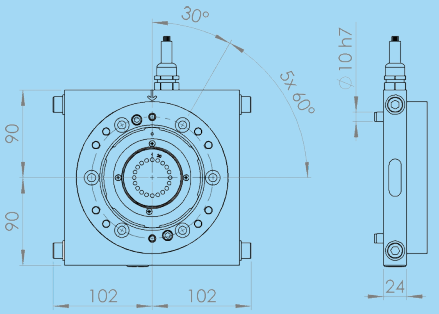
P6431
Tool attachment TA250-8E, 1 m cable with open end, round





P6473
Tool attachment TA250-8E, 1 m cable with open end, square





TC/TA250

*TC250 fits robots with centering diameter (d3) 63mm and 80mm

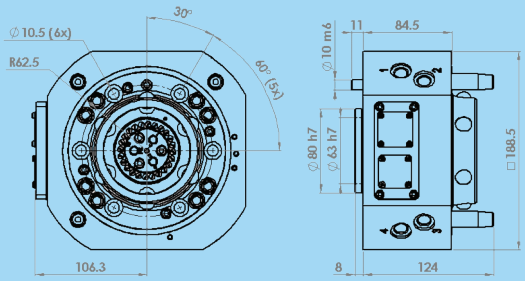
Type	TC250-8E	TA250-8E, round	TA250-8E, round	TA250-8E, square
Article number	P6412	P6418	P6431	P6473
Weight (kg)	6.1	2.7	2.8	3.7
Mechanical interface	ISO 9409-1 125-6-M10			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 2500 N			
Mz	± 1790 Nm			
Mx/My	± 1790 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	10	8		
Dedicated air ducts	1 TC Open (6-10 bar)	-		
	1 TC Close (6- 10 bar)	-		
Max air pressure	10 bar			
Air flow	1600 l/min			
Air connection	G 1/4", 2x G 1/8"	G 1/4"		
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	21	19		
Dedicated signals	1 +24 V DC			
	1 0 DC			
	1 TC Opened	-		
	1 TC Coupled	-		
Max current	5.0 A			
Max voltage	60 V			
Connections	23P Souriau	19S Compact Souriau	1m 20x 0.5mm² cable with open end	

Options	Article number	Description
Options to TA250	P6472	Tool stand kit 250
Cables and connectors for TC250-8E	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA250-8E	P8105-20	2 m signal cable 19P compact - open end
	P8007	19P compact Souriau connector

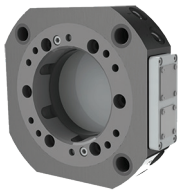
Material handling tool changers and tool attachments

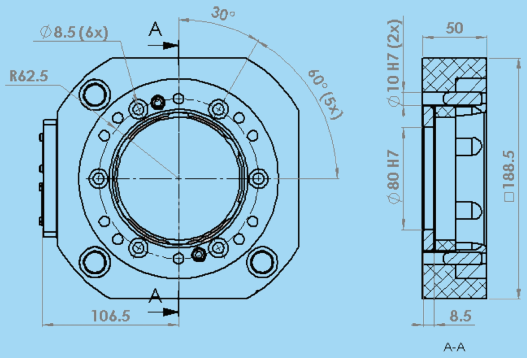
P6501
Tool changer TC275-8





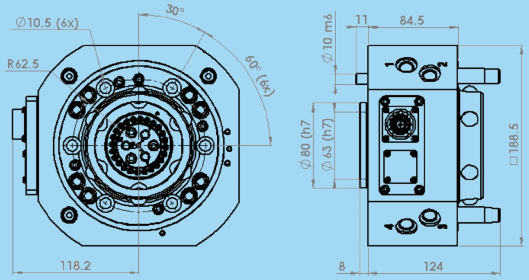
P6502
Tool attachment TA275-8





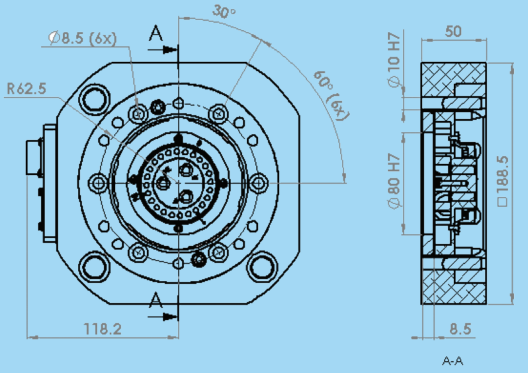
P6503
Tool changer TC275-8E





P6504
Tool attachment TA275-8E





TC/TA275

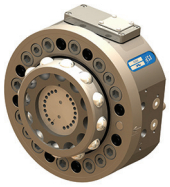
*TC275 fits robots with centering diameter (d3) 63mm and 80mm

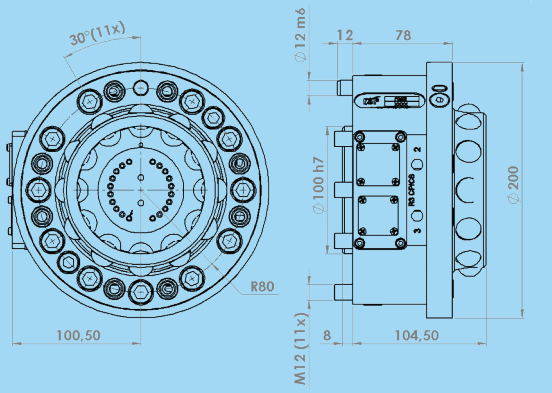
Type	TC275-8	TA275-8	TC275-8E	TA275-8E
Article number	P6501	P6502	P6503	P6504
Weight (kg)	9.1	4.3	9.1	4.5
Mechanical interface	ISO 9409-1 125-6-M10*			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 2750 N			
Mz	± 1790 Nm			
Mx/My	± 1790 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	10	8	10	8
Max air pressure	10 bar			
Dedicated air ducts	1 TC Open (6-10 bar)	-	1 TC Open (6-10 bar)	-
	1 TC Close (6-10 bar)	-	1 TC Close (6-10 bar)	-
Air flow	2000 l/min			
Air connection	G 1/4", 2x 1/8"	G 1/4"		
Pneumatic valve	-	-	Option P0512	-
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signal			
Number of signals	-		23	19
Dedicated signals	-		1 +24 V DC	
	-		1 0 DC	
	-		1 TC Opened	-
	-		1 TC Coupled	-
Max current	-		5.0 A	
Max voltage	-		60 V	
Connections	-		23P Souriau	19S Souriau

Options	Article number	Description
Options to TC275-8	P6533	Signal interface Souriau (included in TC275-8E)
	P6523	Signal interface Harting (for material handling)
Options to TA245-8	P6531	Signal interface Souriau (included in TA275-8E)
Cables and connectors for TC275-8E	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA275-8E	P8112-20	2 m signal cable 23P - open end
	P8001	23P Souriau connector

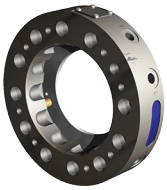
Material handling tool changers and tool attachments

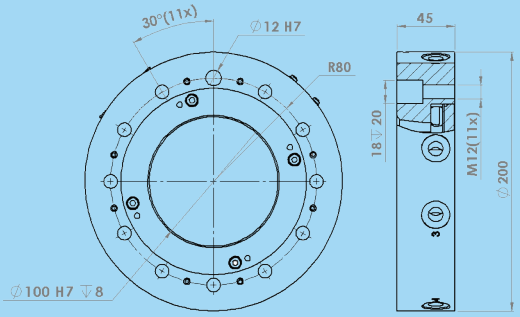
P0601
Tool changer TC350-8



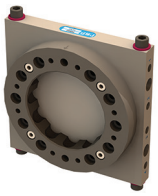


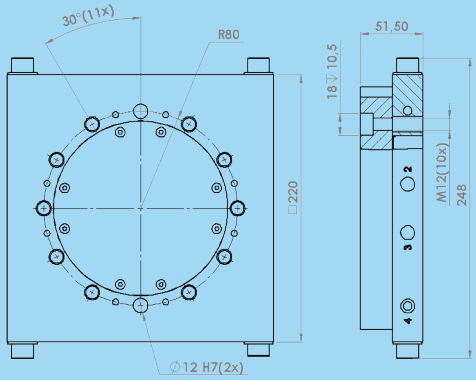
P0606
Tool attachment TA350-8, round





P0602
Tool attachment TA350-8, square





TC/TA350

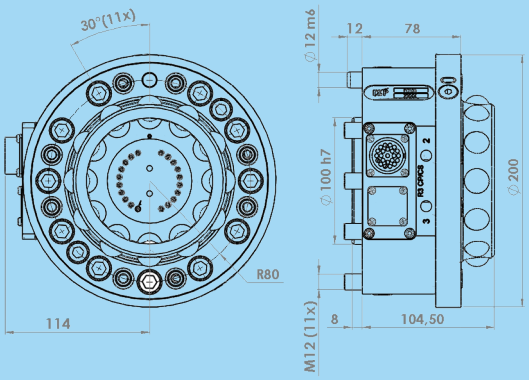
Type	TC350-8	TA350-8, round	TA350-8, square
Article number	P0601	P0606	P0602
Weight (kg)	10.5	5.3	5.7
Mechanical interface	ISO 9409-1 160-11-M12		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 3500 N		
Mz	± 2300 Nm		
Mx/My	± 2300 Nm		
	Air ducts without automatic shut off function		
Number of air ducts	10	8	8
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6- 10 bar)	-	
Max air pressure	10 bar		
Air flow	2000 l/min		
Air connection	G 1/4", 2x G 1/8"	G 1/4"	
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		

Options	Article number	Description
Options to TA350-8	P0639	Tool stand kit 350
Cables and connectors for TC350-8E	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA350-8E	P8102-20	2 m signal cable 19P - open end
	P8003	19P Souriau connector

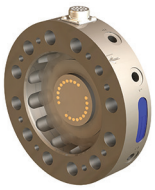
Material handling tool changers and tool attachments

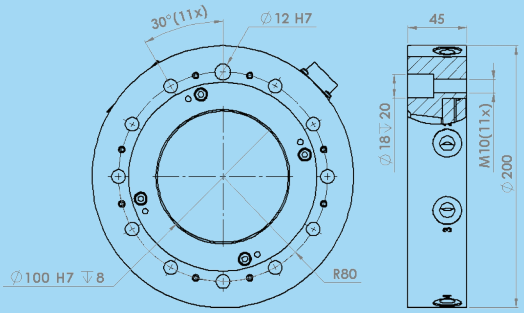
P0603
Tool changer TC350-8E



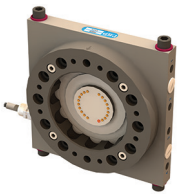


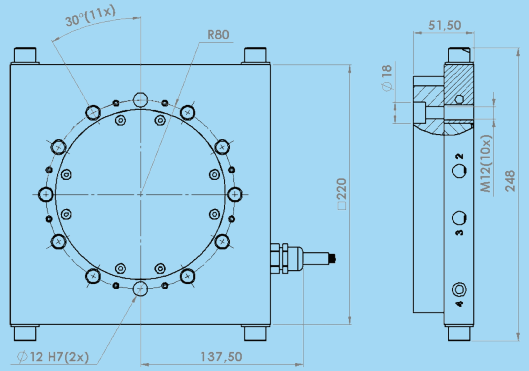
P0608
Tool attachment TA350-8E
round





P0604
Tool attachment TA350-8E
square





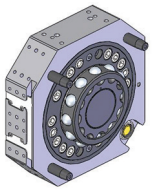
TC/TA350

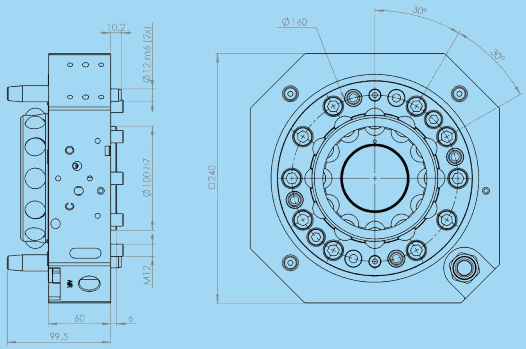
Type	TC350-8E	TA350-8E, round	TA350-8E, square
Article number	P0603	P0608	P0604
Weight (kg)	10.5	5.5	6.2
Mechanical interface	ISO 9409-1 160-11-M12		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 3500 N		
Mz	± 2300 Nm		
Mx/My	± 2300 Nm		
	Air ducts without automatic shut off function		
Number of air ducts	10	8	
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6- 10 bar)	-	
Max air pressure	10 bar		
Air flow	2000 l/min		
Air connection	G 1/4", 2x G 1/8"	G 1/4"	
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		
	Electrical signals		
Number of signals	21	19	17
Dedicated signals	1 +24 V DC		
	1 0 DC		
	1 TC Opened	-	1 TC Close
	1 TC Coupled	-	-
Max current	5.0 A		
Max voltage	60 V		
Connections	23P Souriau	19S Souriau	1m 20x0.5.5mm² cable

Options	Article number	Description
Options to TA350-8	P0639	Tool stand kit 350
Cables and connectors for TC350-8	P8129-50	5 m 23S Souriau - open end
	P8002	23S Souriau connector
Cables and connectors for TA350-8	P8102-20	2 m 19P Souriau - open end
	P8003	19P Souriau connector

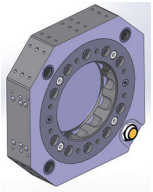
Material handling tool changers and tool attachments

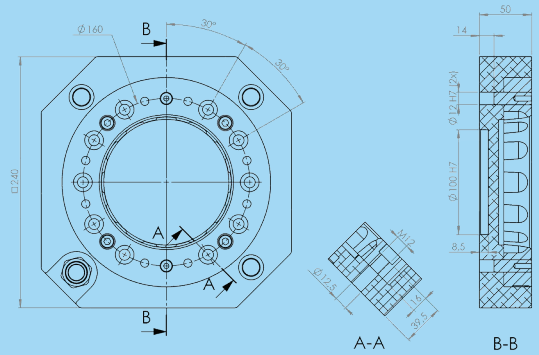
P6801
Tool changer TC480-1





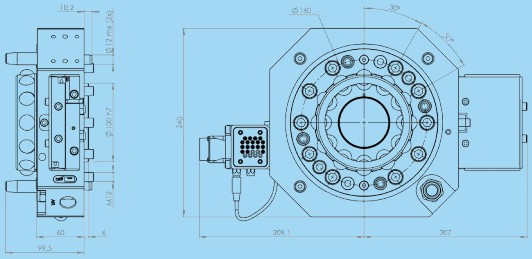
P6802
Tool attachment TA480-1





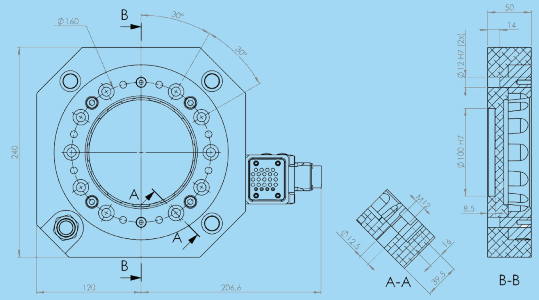
P6803
Tool changer TC480-1EV





P6804
Tool attachment TA480-1E





TC/TA480

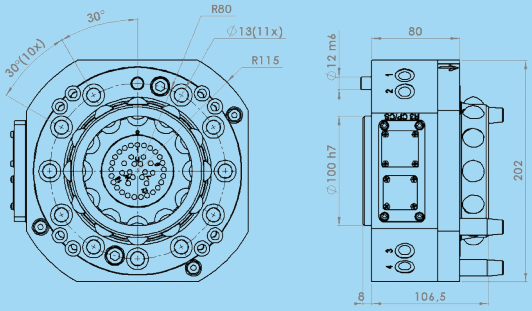
Type	TC480-1	TA480-1	TC480-1EV	TA480-1E
Article number	P6801	P6802	P6803	P6804
Weight (kg)	13.1	7.7	13.7	7.9
Mechanical interface	ISO9409-1 160-10-M12			
Working temperature	+10°C - +60°C			
IP classification	IP54			
	Maximum tool load			
Fz	± 3500 N			
Mz	± 2300 Nm			
Mx/My	± 2300 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	3	1	1	1
Dedicated air ducts	1 TC Open (6-10 bar)	-	1 TC Open/Close	-
	1 TC Close (6-10 bar)	-	-	-
Max air pressure	10 bar			
Air flow	2000 l/min			
Air connection	1x G1/2", 2x G1/8"	G1/2"		
Pneumatic valve	-	-	Option P6718	-
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	-		23	17
Dedicated signals	-		1 +24V DC	-
	-		1 0V DC	-
	-		1 TC Opened	-
			1 TC Closed	
	-		2 TC valves	-
Max current	-		5A	
Max voltage	-		60 V	
Connections	-		23P Souriau	19S Souriau

Options	Article number	Description
Options to TC240	P6711	Signal interface Souriau (included in TC480-1EV
	P6719	Magnetic sensors open and close (included in TC480--1EV and TC480-SWx)
Options to TA240	P6721	Signal interface Souriau (included in TA480-1E
Cables and connectors for TC240	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA240	P8112-20	2 m signal cable 23P - open end
	P8001	23P Souriau connector

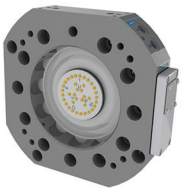
Material handling tool changers and tool attachments

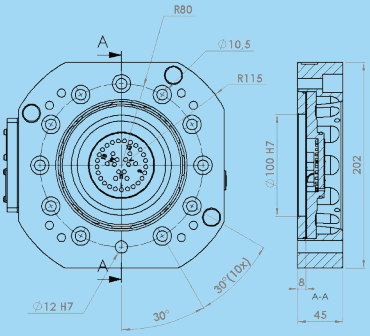
P0501
Tool changer TC500-8





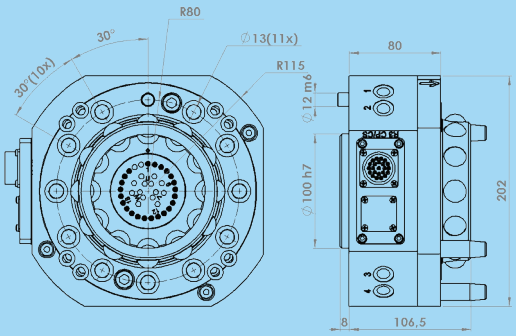
P0502
Tool attachment TA500-8





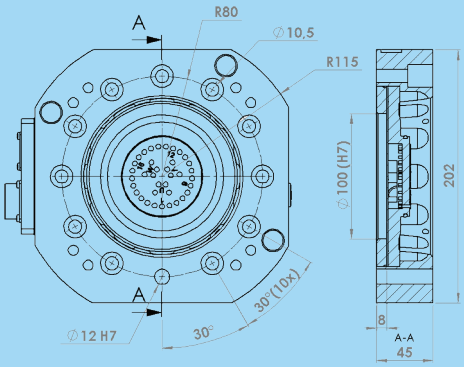
P0503
Tool changer TC500-8E





P0504
Tool attachment TA500-8E





TC/TA500

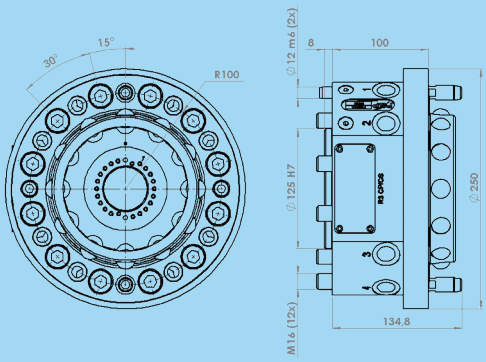
Type	TC500-8	TA500-8	TC500-8E	TA500-8E
Article number	P0501	P0502	P0503	P0504
Weight (kg)	12.7	7	12.7	7
Mechanical interface	ISO 9409-1 160-11-M12			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 5000 N			
Mz	± 2300 Nm			
Mx/My	± 2300 Nm			
	Air ducts			
Number of air ducts	10	8	10	8
Dedicated air ducts	1 TC Open (6-10 bar)	-	1 TC Open (6-10 bar)	-
	1 TC Close (6- 10 bar)	-	1 TC Close (6- 10 bar)	-
Max air pressure	10 bar			
Air flow	2000 l/min			
Air connection	G 1/4", 2x G 1/8"	G 1/4"	G 1/4", 2x G 1/8"	G 1/4"
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	-		23	21
Dedicated signals	-		1 +24 V DC	
	-		1 0V DC	
	-		1 TC Opened	-
	-		1 TC Coupled	-
Max current	-		5.0 A	
Max voltage	-		60 V	
Connections	-		23P Souriau	23S Souriau

Options	Article number	Description
Cables and connectors for TC500-8E	P8129-50	5 m signal cable 23S Souriau - open end
	P8002	23S Souriau Connector
Cables and connectors for TA500-8E	P8112-20	2 m signal cable 23P Souriau - open end
	P8001	23P Souriau connector

Material handling tool changers and tool attachments

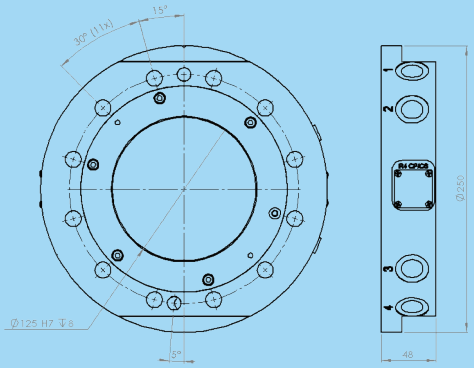
P0701A
Tool changer
TC1000-8



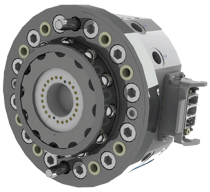


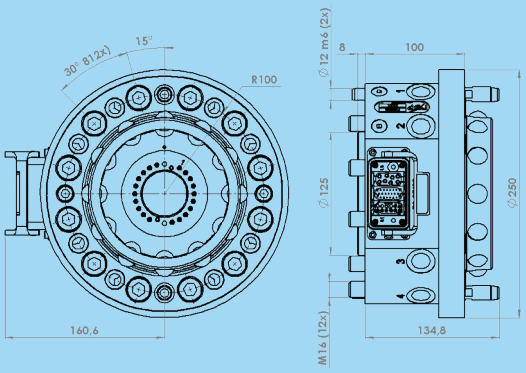
P0702A
Tool attachment TA1000-8





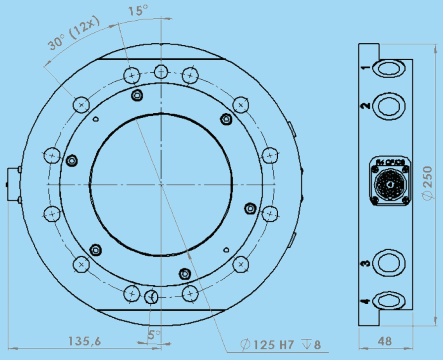
P0703A
Tool changer TC1000-8E





P0704A
Tool attachment TA1000-8E





TC/TA1000

Type	TC1000-8	TA1000-8	TC1000-8E	TA1000-8E
Article number	P0701A	P0702A	P0703A	P0704A
Weight (kg)	19.8	8.5	19.8	8.5
Mechanical interface	ISO 9409-1 200-12-M16			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 10000 N			
Mz	± 10000 Nm			
Mx/My	± 10000 Nm			
	Air ducts			
Number of Air ducts	10	8	10	8
Dedicated Air ducts	1 TC Open (6-10 bar)	-	1 TC Open (6-10 bar)	-
	1 TC Close (6- 10 bar)	-	1 TC Close(6- 10 bar)	-
Max Air pressure	10 bar			
Air flow	2700 l/min			
Air connection	G 1/2", 2x G 1/8"	G 1/2"		
Pneumatic valve	-		Option P0703	-
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	-		23	19
Dedicated signals	-		1 +24 V DC	
	-		2 0V DC	
	-		1 TC Opened	-
	-		1 TC Coupled	-
	-		-	
Max current	-		5.0 A	
Max voltage	-		60 V	
Connections	-		3 module Harting 10B	23S Souriau

Options	Article number	Description
Connectors for TC1000-8E	P8009	3 module Harting connector
Cables and connectors for TA1000-8E	P8112-20	2 m 23P Souriau - open end
	P8001	23P Souriau connector



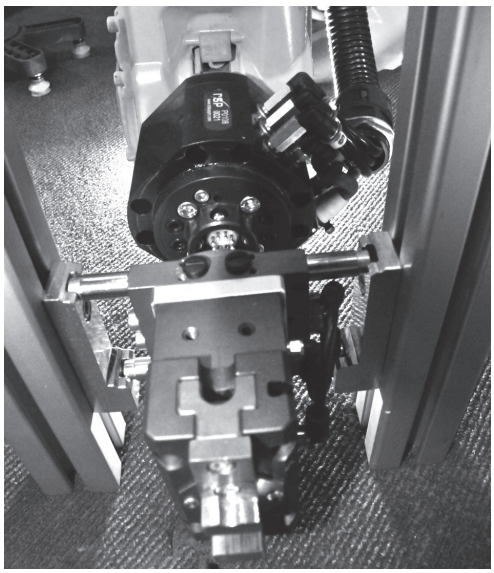
Swivels with tool changer and attachments

Swivels with tool changer

Swivels with integrated tool changer are a unique combination of a swivel unit with a built in TrueConnect™ tool changer which provides absolute position repeatability and is the fastest and most durable tool changer on the market.

The swivels provide air supply and electrical signals without limiting your robot's motion capabilities. You can spin the 6:th axis free from hoses, cables or other obstacles. Low weight, high corrosion resistance and minimum service will shorten your cycle-times, enhance your productivity and maximize uptime in any application involving substantial robot motions.

- No limit to axis 5 and 6
- Together with RSP hose packages, no limit to axis 4, 5 and 6
- Air, electrical signals, FieldBus from axis 5 to the tool
- Even Water, 200 A weld power & servo motor power and signal
- Integrated automatic tool changer makes a compact system



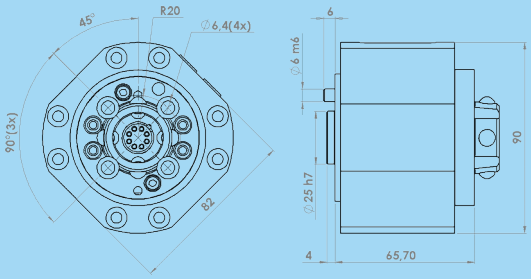
Note! RSP's design of swivel units is based on the ISO standard for robot flanges. For the swivel unit to be able to function properly an adaptation kit has to be included. RSP provides a wide range of adaptation kits for different robot brands. However if you do not find your robot model please contact RSP support.

Locked by TrueConnect™

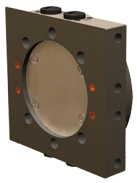
Material handling swivels with tool changer and tool attachments

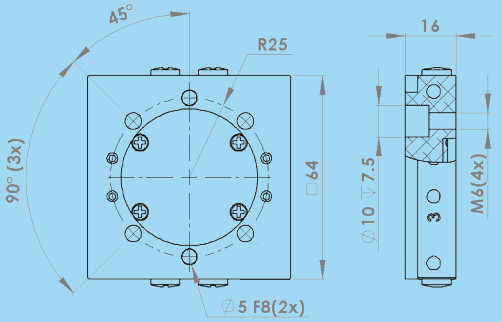
P0106
Swivel with tool changer
STC20-4





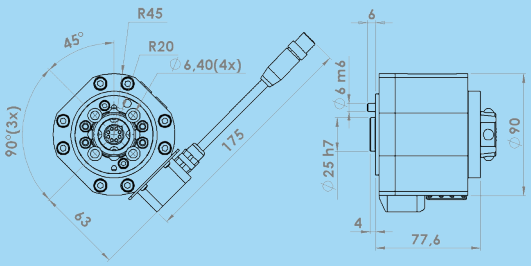
P0102
Tool attachment TA20-4
P0123
Tool attachment TA20-4, steel





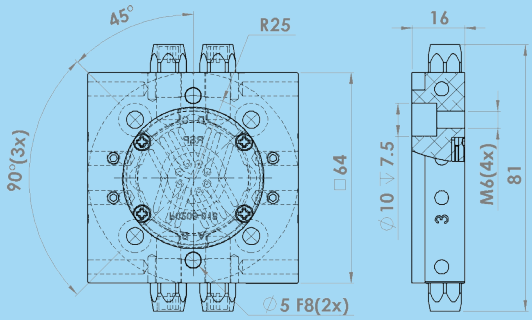
P0108A
Swivel with tool changer
STC20-4E





P0109
Tool attachment STA20-4E
P0125
Tool attachment STA20-4E, steel





STC/TA20

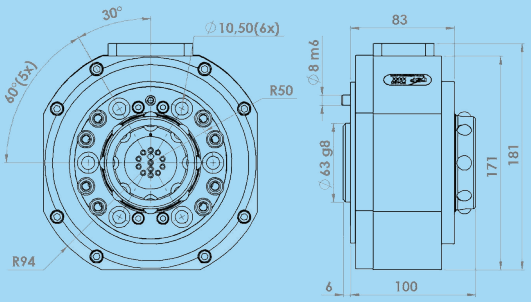
Type	STC20-4	TA20-4	TA20-4 Steel	STC20-4E	STA20-4E	STA20-4E Steel
Article number	P0106	P0102	P0123	P0108A	P0109	P0125
Weight (kg)	0.8	0.1	0.3	1.1	0.1	0.3
Mechanical interface	ISO 9409-1 40-4-M6	ISO 9409-1 50-4-M6		ISO 9409-1 40-4-M6	ISO 9409-1 50-M6	
Working temperature	+10°C - +60°C					
IP classification	IP 54					
	Maximum tool load					
Fz	± 200 N	± 200 N	± 200 N	± 200 N	± 200 N	± 200 N
Mz	± 158 Nm	± 100 Nm	± 158 Nm	± 158 Nm	± 100 Nm	± 158 Nm
Mx/My	± 200 Nm	± 100 Nm	± 200 Nm	± 200 Nm	± 100 Nm	± 200 Nm
	Air ducts without automatic shut off function					
Number of air ducts	6	4		6	4	
Dedicated air ducts	1 TC Open (6-10 bar)	-		1 TC Open (6-10 bar)	-	
	1 TC Close (6-10 bar)	-		1 TC Close(6- 10 bar)	-	
Max air pressure	10 bar					
Air flow	150 l/min					
Air connection	6 mm plastic hose or M5	M5		6 mm plastic hose or M5	M5	
Pneumatic valve	-					
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content					
	Electrical signals					
Number of signals	-			8		
Dedicated signals	-			1 +24V DC	4 +24V DC	
	-			1 0V DC	4 0V DC	
	-			1 TC Coupled		
	-			-		
Max current	-			0.5 A		
Max voltage	-			60 V		
Connections	-			M12 8P	4x M8 3S	

Options	Article number	Description
Options for TA20	P0142	Tool stand kit 20
Cables and connectors for TA20	P0025	2 m signal cable M12 8P - M12 8S
	P0025-30	3 m signal cable M12 8P - M12 8S
Adaptation kits for STC20	P0143	Adaptation kit to STC20 for ABB IRB 140 and 1600
	P0116	Adaptation kit to STC20 for ABB old IRB 140, 2400/L5, old 1600
	P0117	Adaptation kit to STC20 for ABB IRB 1400
	P0118	Adaptation kit to STC20 for ABB IRB 2600/12, 4600/20, 2400/10-16, 4400/L1
	P0158	Adaptation kit to STC20 for Kuka KR6
	P0159	Adaptation kit to STC20 for Kuka KR16
	P0161	Adaptation kit to STC20 for Kuka KR15-2
	P0145	Adaptation kit to STC20 for Motoman UP6, UP20

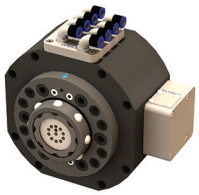
Material handling swivels with tool changer and tool attachments

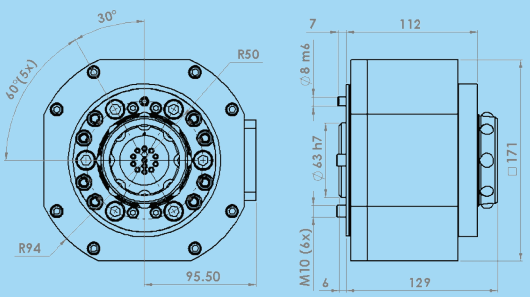
P0420
Swivel with tool changer
STC100-2



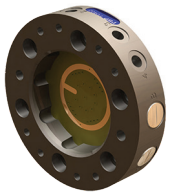


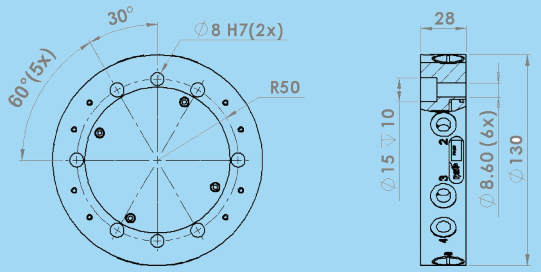
P0406
Swivel with tool changer
STC100-6



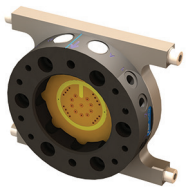


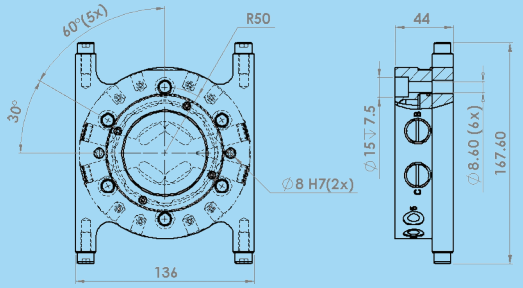
P0407
Tool attachment TA100-8,
round





P0402
Tool attachment TA100-8,
square





STC/TA100

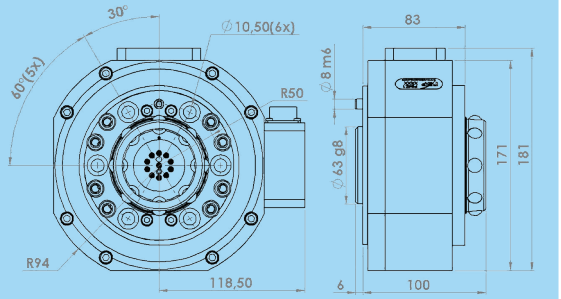
Type	STC100-2	STC100-6	TA100-8, round	TA100-8, square
Article number	P0420	P0406	P0407	P0402
Weight (kg)	4.9	6.0	1.5	2.2
Mechanical interface	ISO9409-1 100-6-M10			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 1000 N			
Mz	± 1000 Nm			
Mx/My	± 1000 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	4	8	8	
Dedicated air ducts	1 TC Open (6-10 bar)		-	
	1 TC Close(6- 10 bar)		-	
Max air pressure	10 bar			
Air flow	600 l/min			
Air connection	8 mm plastic hose or G1/8"		G 1/8"	
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			

Options	Article number	Description
Options to TA100	P0423	Tool stand kit 100
Adaptation kits for STC100	P0449	Adaptation kit to STC100 for ABB IRB 4600/40-45-60
	P0414	Adaptation kit to STC100 for ABB IRB 4400/45-60
	P0447	Adaptation kit to STC100 for ABB IRB 260
	P0665	Adaptation kit to STC100 for Fanuc R2000iB 100P
	P0669	Adaptation kit to STC100 for Fanuc R2000iB 165F/165R/125L/100H
	P0438	Adaptation kit to STC100 for Kuka KR100
	P0455	Adaption kit to STC100 for Kuka KR30-3/KR60-3/S100
	P0437	Adaptation kit to STC100 for Motoman ES165N-100

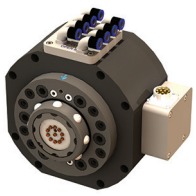
Material handling swivels with tool changer and tool attachments

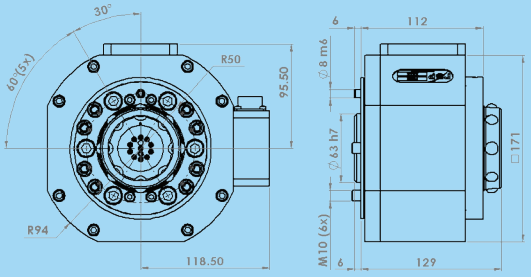
P0421
Swivel with tool changer
STC100-2E



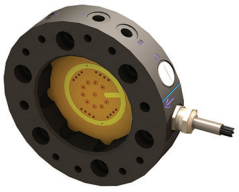


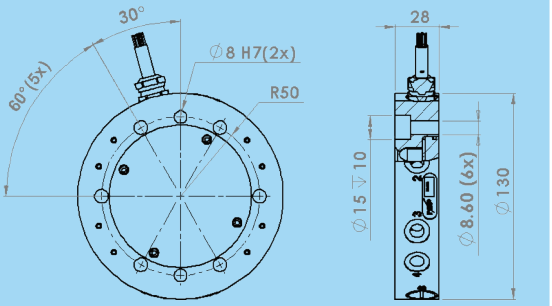
P0408
Swivel with tool changer
STC100-6E



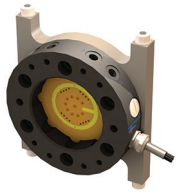


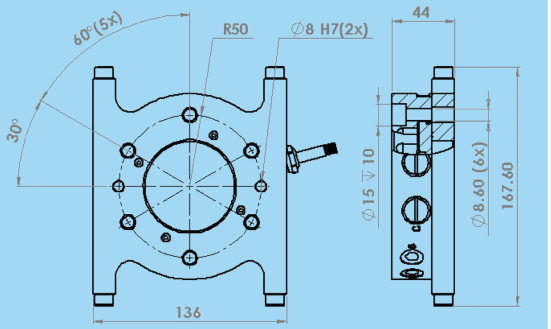
P0409
Tool attachment TA100-8E,
round



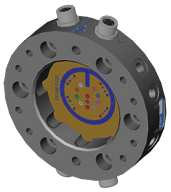


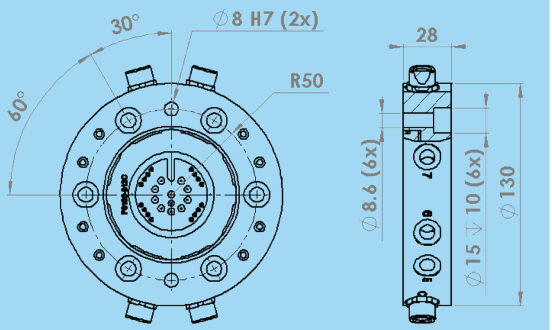
P0404
Tool attachment TA100-8E,
square



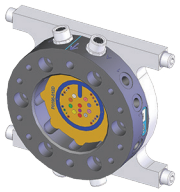


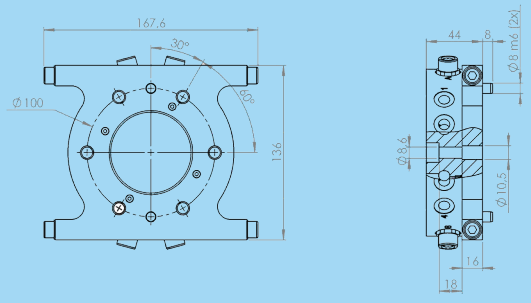
P0418
Tool attachment TA100-8E
round





P0474
Tool attachment TA100-8E
square





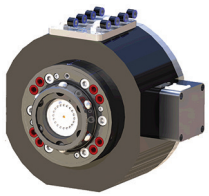
STC/TA100

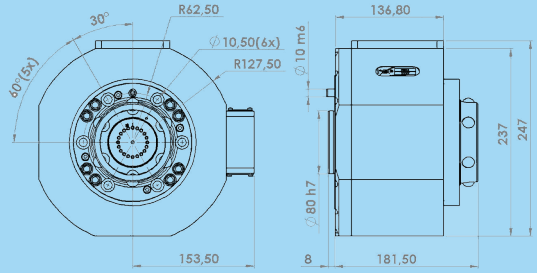
Type	STC100-2E	STC100-6E	TA100-8E, R	TA100-8E, S	TA100-8E, round	TA100-8E, square
Article number	P0421	P0408	P0409	P0404	P0418	P0474
Weight (kg)	5.2	6.3	1.5	2.2	1.5	2.2
Mechanical interface	ISO9409-1 100-6-M10					
Working temperature	+10°C - +60°C					
IP classification	IP 54					
	Maximum tool load					
Fz	± 1000 N					
Mz	± 1000 Nm					
Mx/My	± 1000 Nm					
	Air ducts without automatic shut off function					
Number of air ducts	4	8	8			
Dedicated air ducts	1 TC Open (6-10 bar)		-			
	1 TC Close (6-10 bar)		-			
Max air pressure	10 bar		10 bar			
Air flow	600 l/min		600 l/min			
Air connection	8 mm plastic hose or G1/8"		G 1/8"			
Pneumatic valve	-					
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content					
	Electrical signals					
Number of signals	12		10		16	
Dedicated signals	1 +24 V DC		1 +24 V DC		4 +24 V DC	
	1 0V DC		1 0V DC		4 0V DC	
	1 TC Coupled		-			
	1 TC Opened		-			
Max current	1.0 A		1.0 A			
Max voltage	60 V		60 V			
Connections	12P Souriau		0.9 m 10x 0.5mm^2 cable		4x M12 4S	

Options	Article number	Description
Options to TA100	P0423	Tool stand kit 100
Cables and connectors for S/STC100-xE	P8116-30	3 m Signal cable 12S Souriau - open end
	P8116-40	4 m signal cable 19S - open end
	P8006	12S Souriau connector
Adaptation kits for STC100	P0449	Adaptation kit to STC100 for ABB IRB 4600/40-45-60
	P0414	Adaptation kit to STC100 for ABB IRB 4400/45-60
	P0447	Adaptation kit to STC100 for ABB IRB 260
	P0665	Adaptation kit to STC100 for Fanuc R2000iB 100P
	P0669	Adaptation kit to STC100 for Fanuc R2000iB 165F/165R/125L/100H
	P0455	Adaptation kit to STC100 for Kuka KR30-3, KR60-3
	P0438	Adaptation kit to STC100 for Kuka KR100
	P0437	Adaptation kit to STC100 for Motoman ES165N-100

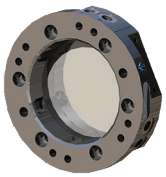
Material handling swivels with tool changer and tool attachments

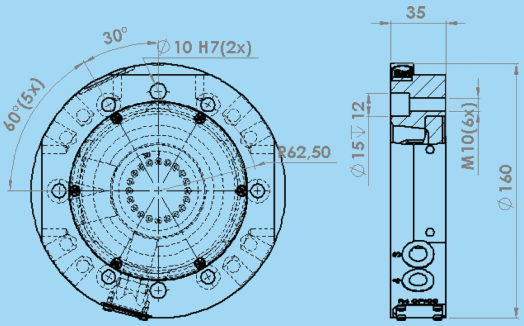
P6413
Swivel with tool changer STC250-6



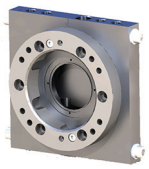


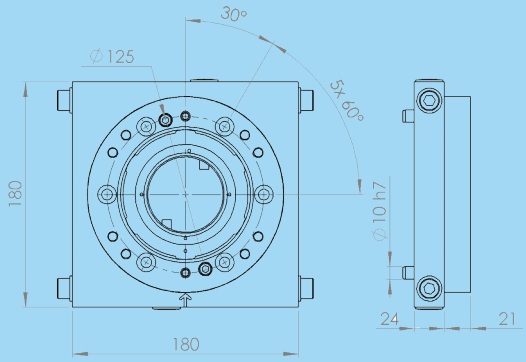
P6417
Tool attachment TA250-8, round





P6474
Tool attachment TA250-8 square





STC/TA250

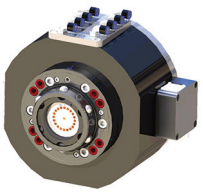
*STC250 fits robots with centering diameter (d3) 63mm and 80mm

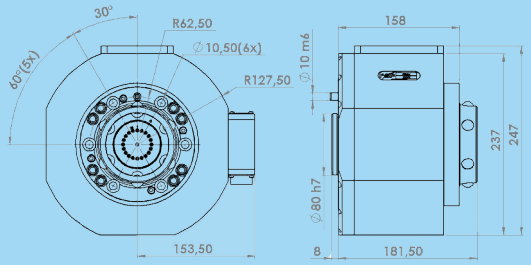
Type	STC250-6	TA250-8, round	TA250-8, square
Article number	P6413	P6417	P6474
Weight (kg)	14.5	2.6	3.5
Mechanical interface	ISO 9409-1 125-6-M10*		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 2500 N		
Mz	± 1790 Nm		
Mx/My	± 1790 Nm		
	Air ducts without automatic shut off function		
Number of air ducts	8		
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close(6- 10 bar)	-	
Max air pressure	10 bar		
Air flow	1600 l/min		
Air connection	8 mm plastic hose or G1/4"	G 1/4"	
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		

Options	Article number	Description
Options to TA250	P6472	Tool stand kit 250
Adaptation kits for STC250	P6419	Adaptation kit to STC250 for ABB IRB 6400
	P0683	Adaptation kit to STC250 for Fanuc R2000iB 175L/210F
	P6446	Adaptation kit to STC250 for Hyundai HX165S
	P6445	Adaptation kit to STC250 for Kawasaki ZX165U
	P6448	Adaptation kit to STC250 for Motoman ES165N-100
	P6461	Adaptation kit to STC250 for Kuka KR125/3
	P6447	Adaptation kit to STC250 for Nachi SH133/166

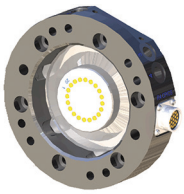
Material handling swivels with tool changer and tool attachment

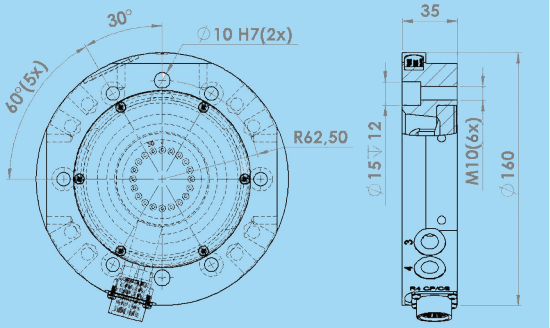
P6414
Swivel with tool changer STC250-6E



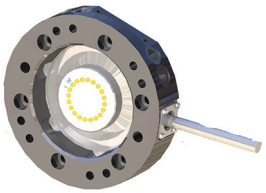


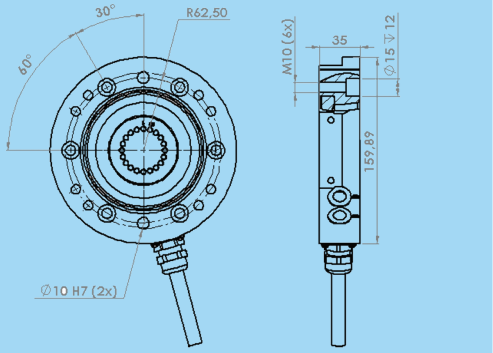
P6418
Tool attachment TA250-8E



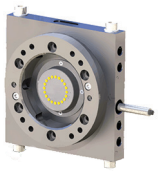


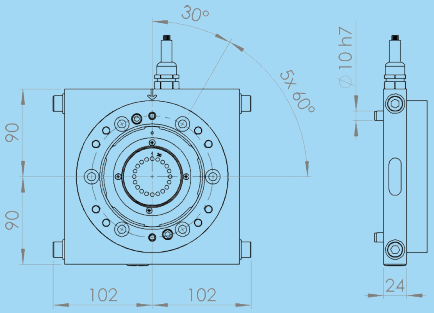
P6431
Tool attachment TA250-8E, round





P6473
Tool attachment TA250-8E, square





STC/TA250

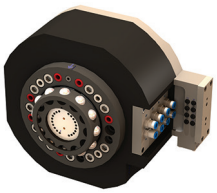
*STC250 fits robots with centering diameter (d3) 63mm and 80mm

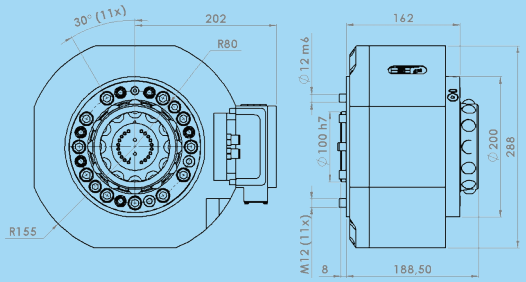
Type	STC250-6E	TA250-8E, R	TA250-8E, round	TA250-8E, square
Article number	P6414	P6418	P6431	P6473
Weight (kg)	14.6	2.7	2.8	3.6
Mechanical interface	ISO 9409-1 125-6-M10*			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 2500 N			
Mz	± 1790 Nm			
Mx/My	± 1790 Nm			
	Air ducts without automatic shut off function			
Number of air ducts	8			
Dedicated air ducts	1 TC Open (6-10 bar)	-		
	1 TC Close (6-10 bar)	-		
Max air pressure	10 bar			
Air flow	1600 l/min			
Air connection	8 mm plastic hose or G1/4"	G 1/4"		
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	18	19		19
Dedicated signals	1 +24V DC	1 +24V DC		
	1 0V DC	1 0V DC		
	1 TC Coupled	-		
	1 TC Opened	-		
Max current	2.0 A			
Max voltage	60 V			
Connections	23P Souriau	19S Compact Souriau	1 m 20x 0.5mm^2 cable with open end	

Options	Article number	Description
Options to TA250	P6472	Tool stand kit 250
Cables and connectors for S/STC250-xE	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for S/TA250-xE	P8105-20	2 m signal cable 19P Compact - open end
	P8007	19P compact Souriau connector
Adaptation kits for STC250	P6419	Adaptation kit to STC250 for ABB IRB 6400
	P0683	Adaptation kit to STC250 for Fanuc R2000iB 175L/210F
	P6446	Adaptation kit to STC250 for Hyundai HX165S
	P6445	Adaptation kit to STC250 for Kawasaki ZX165U
	P6448	Adaptation kit to STC250 for Motoman ES165N-100
	P6461	Adaptation kit to STC250 for Kuka KR125/3
	P6447	Adaptation kit to STC250 for Nachi SH133/166

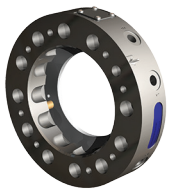
Material handling swivels with tool changer and tool attachments

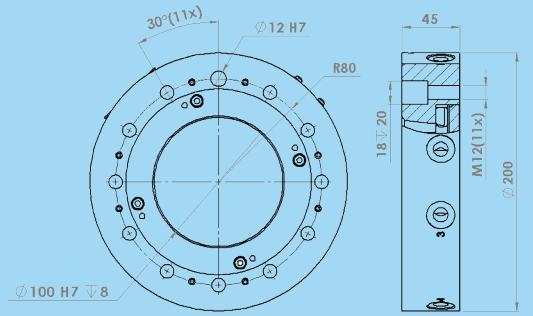
P0605
Swivel with tool changer
STC350-6



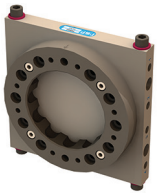


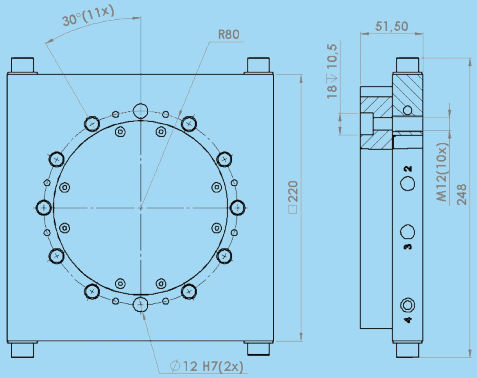
P0606
Tool attachment TA350-8
round





P0602
Tool attachment TA350-8
square





STC/TA350

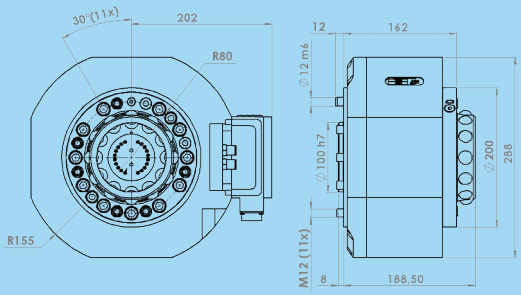
Type	STC350-6	TA350-8, R	TA350-8, S
Article number	P0605	P0606	P0602
Weight (kg)	22.8	5.3	5.7
Mechanical interface	ISO 9409-1 160-11-M12		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 3500 N		
Mz	± 2300 Nm		
Mx/My	± 2300 Nm		
	Air ducts without automatic shut off function		
Number of air ducts	8		
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6-10 bar)	-	
Max air pressure	10 bar		
Air flow	800 l/min		
Air connection	8 mm plastic hose or G1/4"	G1/4"	
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		

Options	Article number	Description
Options to TA350	P0639	Tool stand kit 350
Cables and connectors for S/STC350-xE	P8129-50	5 m 23S Souriau - open end
	P8002	23S Souriau connector
Cables and connectors for TA350-8E	P8102-20	2 m 19P Souriau-open end
	P8003	19P Souriau connector
Adaptation kits for STC350	P0620	Adaptation kit to STC350 for ABB IRB 6600/2.55-175 and 6640/2.55-180
	P0621	Adaptation kit to STC350 for ABB IRB 66xx/others
	P0656	Adaptation kit to STC350 for ABB IRB 6620
	P0622	Adaptation kit to STC350 for ABB IRB 7600
	P0671	Adaptation kit to STC350 for Fanuc R2000iB175L/210F

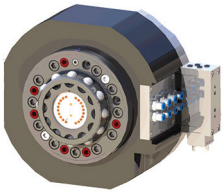
Material handling swivels with tool changer and tool attachment

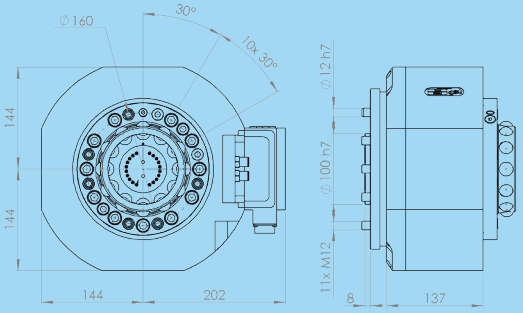
P0607
Swivel with tool changer
STC350-6E



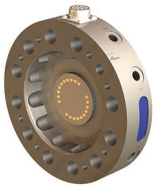


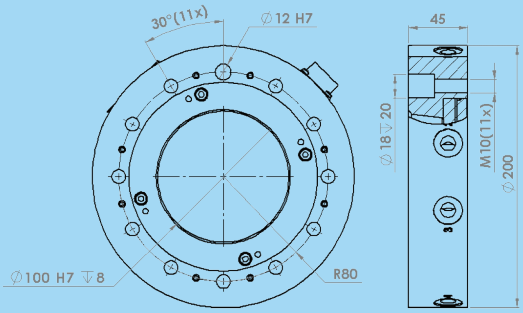
P0695
Swivel with tool changer
STC350-8E



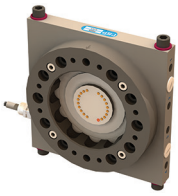


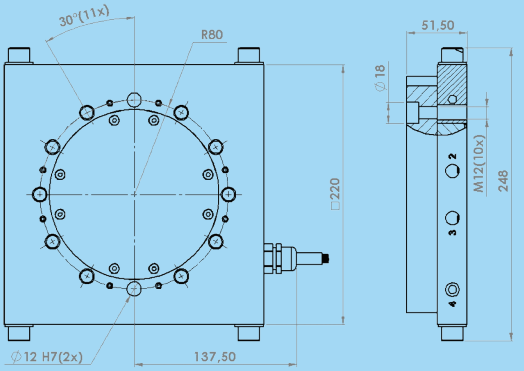
P0608
Tool attachment TA350-8E
round





P0604
Tool attachment TA350-8E
square





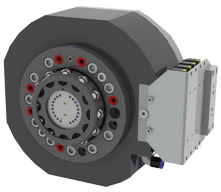
STC/TA350

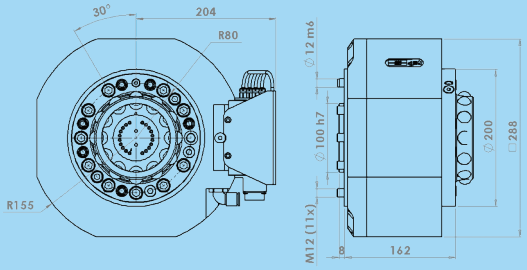
Type	STC350-6E	STC350-8E, Sealed	TA350-8E, Round	TA350-8E, Square
Article number	P0607	P0695	P0608	P0604
Weight (kg)	23	24.3	5.5	6.2
Mechanical interface	ISO 9409-1 160-11-M12			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 3500 N			
Mz	± 2300 Nm			
Mx/My	± 2300 Nm			
	Air ducts			
Number of air ducts	8			
Dedicated air ducts	1 TC Open (6-10 bar)		-	
	1 TC Close (6-10 bar)		-	
Max air pressure	10 bar			
Air flow	800 l/min			
Air connection	8 mm plastic hose or G1/4"	G 1/4"		
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals	14		19	
Dedicated signals	1 +24V DC			
	1 0V DC			
	1 TC Coupled		-	
	1 TC Opened		-	
Max current	3.0 A			
Max voltage	60 V			
Connections	23P Souriau		19S Souriau	1 m 18x0.5mm² cable

Options	Article number	Description
Options to TA350	P0639	Tool stand kit 350
Cables and connectors for S/STC350-xE	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA350-8E	P8102-20	2 m signal cable 19P-open end
	P8003	19P Souriau connector
Adaptation kits for STC350	P0620	Adaptation kit to STC350 for ABB IRB 6600/2.55-175 and 6640/2.55-180
	P0621	Adaptation kit to STC350 for ABB IRB 66xx/others
	P0656	Adaptation kit to STC350 for ABB IRB 6620
	P0622	Adaptation kit to STC350 for ABB IRB 7600
	P0671	Adaptation kit to STC350 for Fanuc R2000iB175L/210F

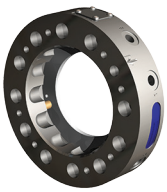
Material handling swivels with tool changer and tool attachment

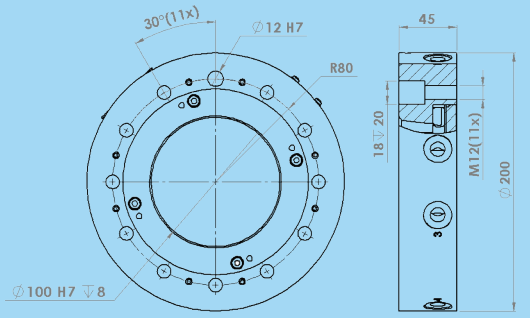
P0637
Swivel with tool changer STC350-x6V4



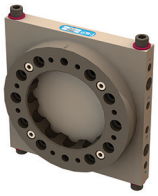


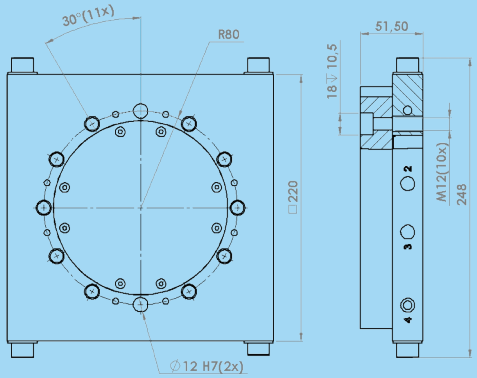
P0606
Tool attachment TA350-8, round





P0602
Tool attachment TA350-8, square





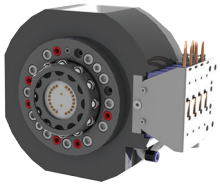
STC/TA350

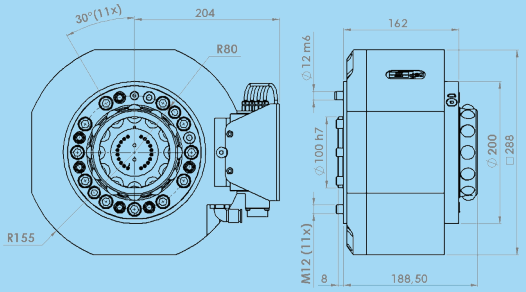
Type	STC350-x6V4	TA350-8, round	TA350-8, square
Article number	P0637	P0606	P0602
Weight (kg)	23.5	5.3	5.7
Mechanical interface	ISO 9409-1 160-11-M12		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 3500 N		
Mz	± 2300 Nm		
Mx/My	± 2300 Nm		
	Air ducts		
Number of air ducts	8		
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6-10 bar)	-	
Max air pressure	10 bar		
Air flow	800 l/min		
Air connection	1x 10 mm plastic hose or G1/2"	G 1/4"	
Pneumatic valve	Integrated TC-valves	-	
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		
	Electrical signals		
Number of signals for valves	9	-	
Number of signals	-		
Dedicated signals	-		
	-		
	-		
	-		
Max current	-		
Max voltage	-		
Connections	23P Souriau	-	

Options	Article number	Description
Options to TA350	P0639	Square tool attachment bracket kit 350
Cables and connectors for S/STC350-xE	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA350-8E	P8102-20	2 m signal cable 19P-open end
	P8003	19P Souriau connector
Adaptation kits for STC350	P0620	Adaptation kit to STC350 for ABB IRB 6600/2.55-175 and 6640/2.55-180
	P0621	Adaptation kit to STC350 for ABB IRB 66xx/others
	P0656	Adaptation kit to STC350 for ABB IRB 6620
	P0622	Adaptation kit to STC350 for ABB IRB 7600
	P0671	Adaptation kit to STC350 for Fanuc R2000iB175L/210F

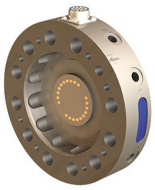
Material handling swivels with tool changer and tool attachment

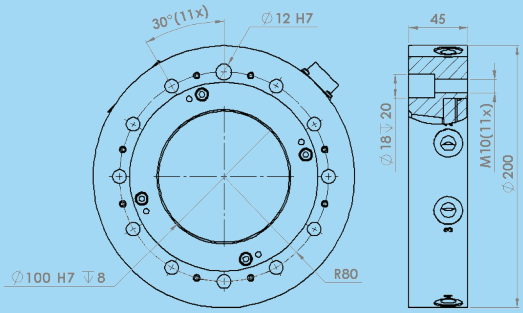
P0624
Swivel with tool changer
STC350-6EV4



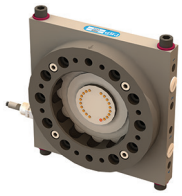


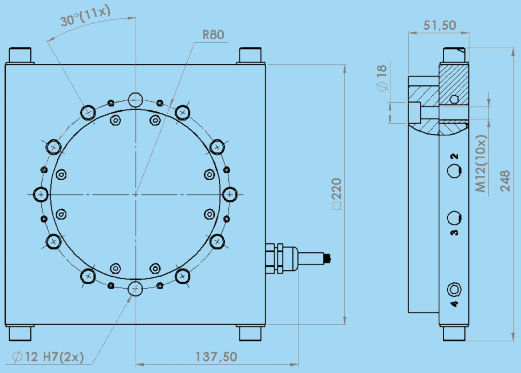
P0608
Tool attachment TA350-8E
round





P0604
Tool attachment TA350-8E
square

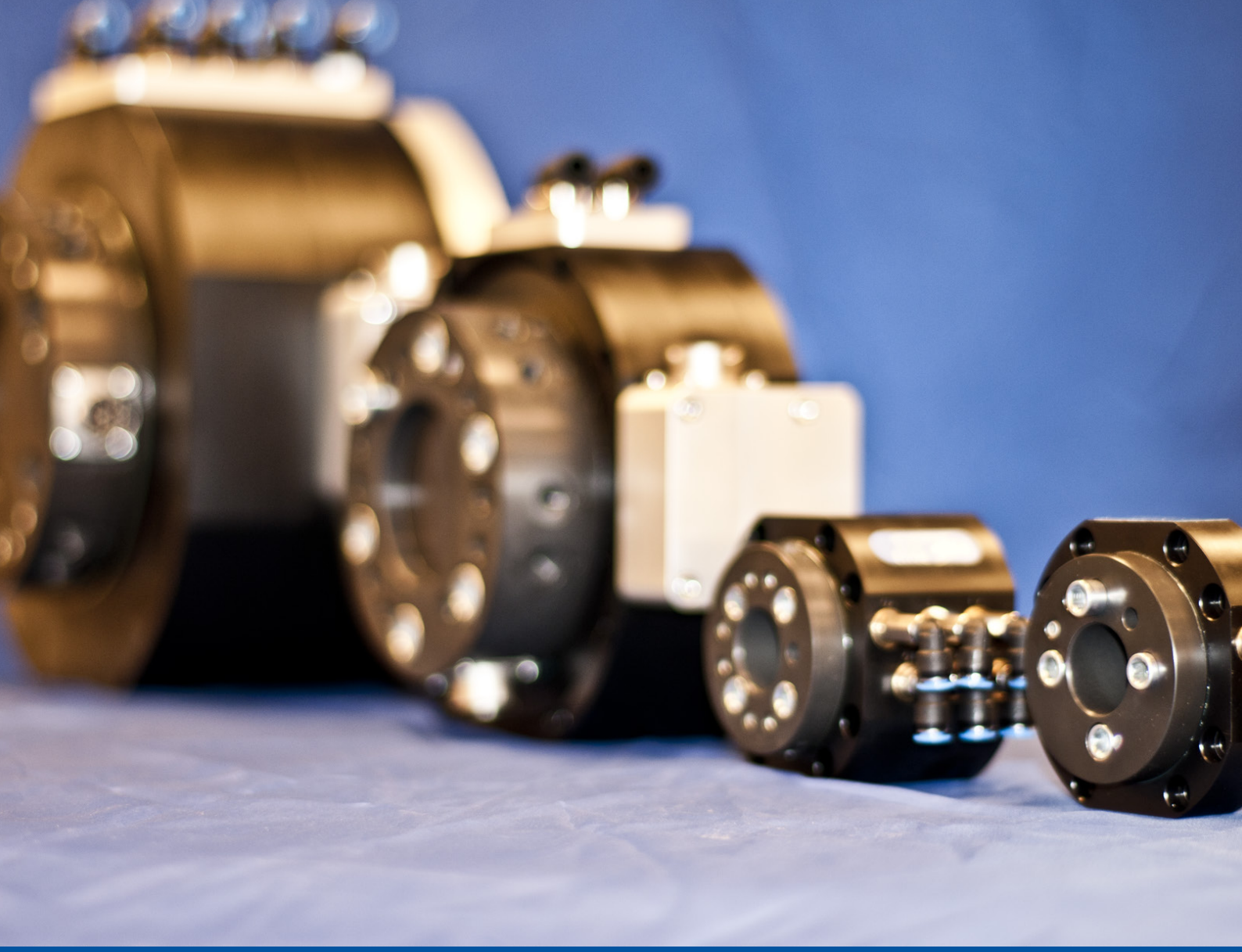




STC/TA350

Type	STC350-6EV4	TA350-8E, round	TA350-8E, square
Article number	P0624	P0608	P0604
Weight (kg)	23.7	5.5	6.1
Mechanical interface	ISO 9409-1 160-11-M12		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 3500 N		
Mz	± 2300 Nm		
Mx/My	± 2300 Nm		
	Air ducts		
Number of air ducts	8		
Dedicated air ducts	1 TC Open (6-10 bar)	-	
	1 TC Close (6-10 bar)	-	
Max air pressure	10 bar		
Air flow	800 l/min		
Air connection	1x 10 mm plastic hose or G 1/2"	G 1/4"	
Pneumatic valve	Integrated TC-valves	-	
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		
	Electrical signals		
Number of signals for valves	9	-	
Number of signals	14	19	
Dedicated signals	1 +24V DC		
	1 0V DC		
	1 TC Coupled (same for the valves)	-	
	1 TC Opened	-	
Max current	3.0 A		
Max voltage	60 V		
Connections	23P Souriau	19S Souriau	1 m 18x0.5mm^2 cable

Options	Article number	Description
Options to TA350	P0639	Tool stand kit 350
Cables and connectors for S/STC350-xE	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for TA350-8E	P8102-20	2 m signal cable 19P-open end
	P8003	19P Souriau connector
Adaptation kits for STC350	P0620	Adaptation kit to STC350 for ABB IRB 6600/2.55-175 and 6640/2.55-180
	P0621	Adaptation kit to STC350 for ABB IRB 66xx/others
	P0656	Adaptation kit to STC350 for ABB IRB 6620
	P0622	Adaptation kit to STC350 for ABB IRB 7600
	P0671	Adaptation kit to STC350 for Fanuc R2000iB175L/210F

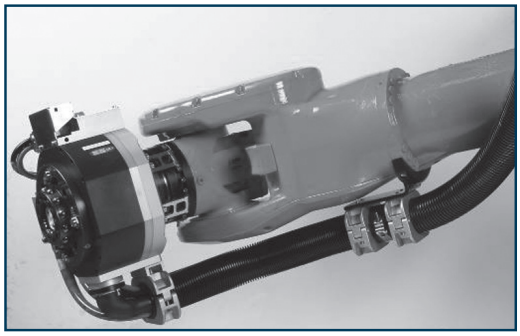


Swivels

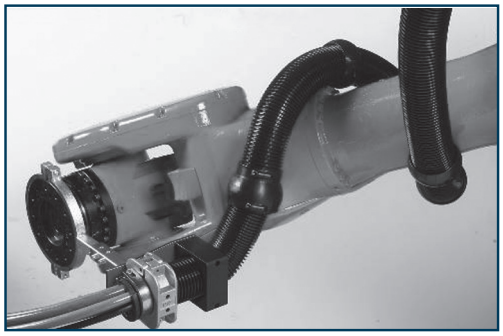
Swivels

Our new family of swivels provides air supply and electrical signals without limiting your robot's motion capabilities. You can spin the 6:th axis free from hoses, cables or other obstacles. Low weight, high corrosion resistance and minimum service will shorten your cycle-times, enhance your productivity and maximize uptime in any application involving substantial robot motions.

- No limit to axis 6
- Together with RSP hose packages, no limit to axis 4, 5 and 6
- Air, electrical signals, FieldBus from axis 6 to the tool
- Water, 200 A weld power, servo motor power and signal for spot welding



With swivel
The rotation of axis 6 does not affect the Dress Pack on the upper arm

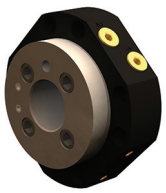


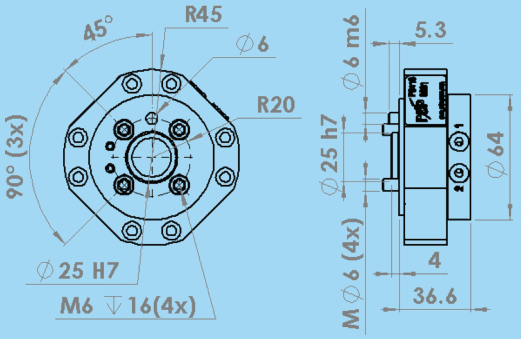
Without swivel
Hose and cable package has to be twisted round the upper arm of the robot when axis 6 rotates

Note! RSP's design of swivel units is based on the ISO standard for robot flanges. For the swivel unit to be able to function properly an adaptation kit has to be included. RSP provides a wide range of adaptation kits for different robot brands. However if you do not find your robot model please contact RSP support.

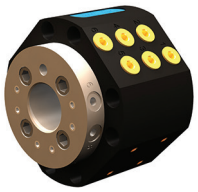
Material handling swivels

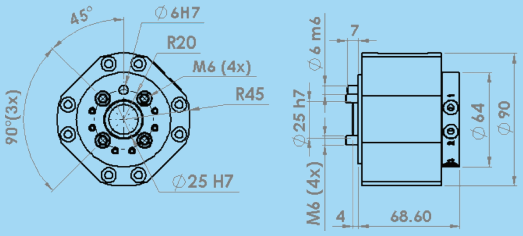
P0110
Swivel S20-2



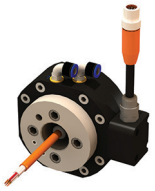


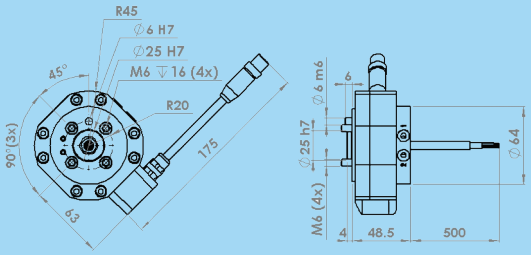
P0112
Swivel S20-6



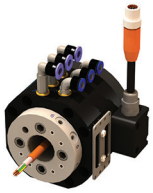


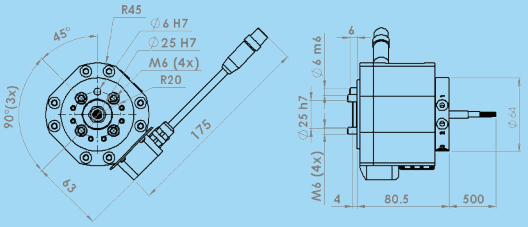
P0111A
Swivel S20-2E





P0113A
Swivel S20-6E





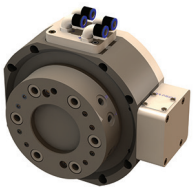
S20

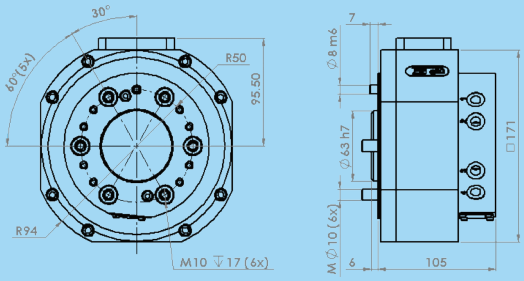
Type	S20-2	S20-6	S20-2E	S20-6E
Article number	P0110	P0112	P0111A	P0113A
Weight (kg)	0.35	0.65	0.65	0.95
Mechanical interface	ISO 9409-1 40-4-M6			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 200 N			
Mz	± 200 Nm			
Mx/My	± 158 Nm			
	Air ducts			
Number of air ducts	2	6	2	6
Max air pressure	10 bar			
Air flow	150 l/min			
Connection robot, side	6 mm plastic hose or M5			
Connection, tool side	M5			
Pneumatic valve	-			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of slip ring signals	-		8	
Max current	-		0.5 A	
Max voltage	-		60 V	
Connection robot, side	-		M12 8P	
Connection, tool side	-		8x0.25mm² cable	

Options	Article number	Description
Adaptation kits for S 20	P0143	Adaptation kit to STC20 for ABB IRB 140 and 1600
	P0116	Adaptation kit to STC20 for ABB old IRB 140, 2400/L5, old 1600
	P0117	Adaptation kit to STC20 for ABB IRB 1400
	P0118	Adaptation kit to STC20 for ABB IRB 2600/12, 4600/20, 2400/10-16, 4400/L1
	P0158	Adaptation kit to STC20 for Kuka KR6
	P0159	Adaptation kit to STC20 for Kuka KR16
	P0161	Adaptation kit to STC20 for Kuka KR15-2
	P0145	Adaptation kit to STC20 for Motoman UP6, UP20

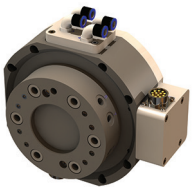
Material handling swivels

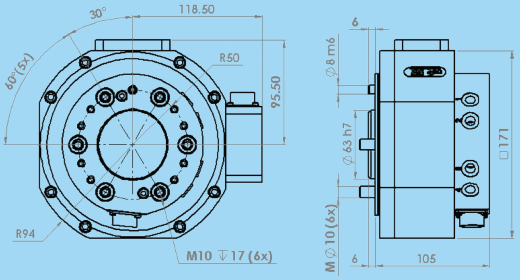
P0410
Swivel S100-4



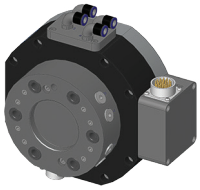


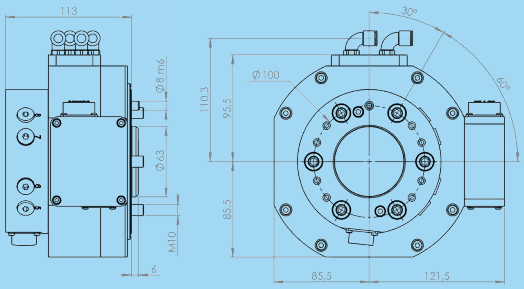
P0411
Swivel S100-4E





P0472
Swivel S100-4E 19 signals





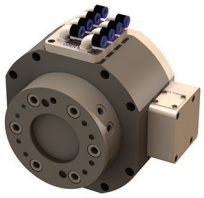
S100

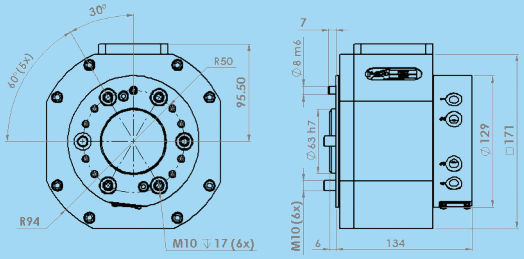
Type	S100-4	S100-4E	S100-4E, 19 signals
Article number	P0410	P0411	P0472
Weight (kg)	3.9	4.3	4.4
Mechanical interface	100-6-M10		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 1000 N		
Mz	± 1000 Nm		
Mx/My	± 1000 Nm		
	Air ducts		
Number of air ducts	4		
Max air pressure	10 bar		
Air flow	600 l/min		
Connection robot, side	8 mm plastic hose or G 1/8"		
Connection, tool side	G 1/8"		
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		
	Electrical signals		
Number of slip ring signals	-	12	19
Max current	-	1.0 A	
Max voltage	-	60 V	
Connection robot, side	-	12P Souriau	23P Souriau
Connection, tool side	-	12S Souriau	19S compact Souriau

Options	Article number	Description
Cables and connectors for S/STC100-xE	P8116-40	4 m signal cable 12S - open end
	P8006	12S Souriau connector
Cable and connectors for S/STC100-xE19 signals	P81xx-40	4 m signal cable 12P - open end
	P8004	19S Souriau connector
Cables and connectors for S100-xE	P8105-20	2 m signal cable 19P compact - open end
	P8007	19P compact Souriau connector
Cables and connectors for S100-xE19 signals	P8114-20	2 m signal cable 12P - open end
	P8005	12P Souriau connector
Adaptation kits for S100	P0449	Adaptation kit to STC100 for ABB IRB 4600/40-45-60
	P0414	Adaptation kit to STC100 for ABB IRB 4400/45-60
	P0447	Adaptation kit to STC100 for ABB IRB 260
	P0665	Adaptation kit to STC100 for Fanuc R2000iB 100P
	P0669	Adaptation kit to STC100 for Fanuc R2000iB 165F/165R/125L/100H
	P0438	Adaptation kit to STC100 for Kuka KR100
	P0455	Adaptation kit to S100 for Kuka KR30-3, KR60-3
	P0437	Adaptation kit to STC100 for Motoman ES165N-100

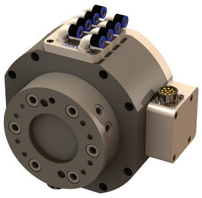
Material handling swivels

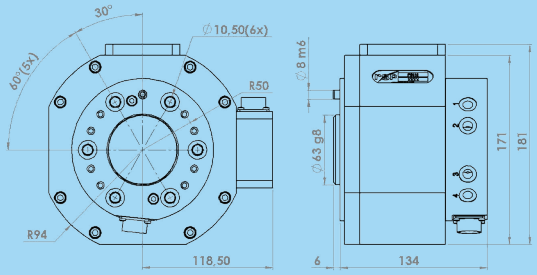
P0412
Swivel S100-8



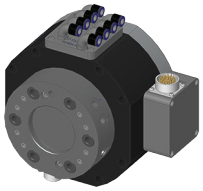


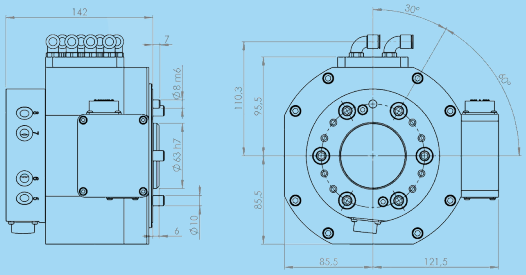
P0413
Swivel S100-8E





P0471
Swivel S100-8E 19 signals





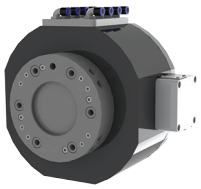
S100

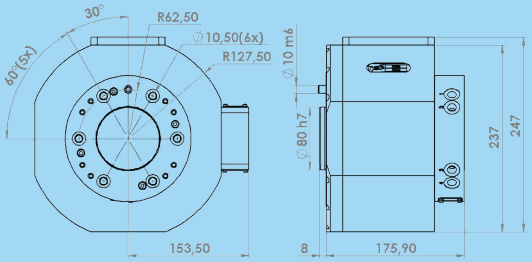
Type	S100-8	S100-8E	S100-8E, 19 signals
Article number	P0412	P0413	P0471
Weight (kg)	5.0	5.3	5.5
Mechanical interface	100-6-M10		
Working temperature	+10°C - +60°C		
IP classification	IP 54		
	Maximum tool load		
Fz	± 1000 N		
Mz	± 1000 Nm		
Mx/My	± 1000 Nm		
	Air ducts		
Number of air ducts	8		
Max air pressure	10 bar		
Air flow	600 l/min		
Connection robot, side	8 mm plastic hose or G 1/8"		
Connection, tool side	G 1/8"		
Pneumatic valve	-		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		
	Electrical signals		
Number of slip ring signals	-	12	19
Max current	-	1.0 A	
Max voltage	-	60 V	
Connection robot, side	-	12P Souriau	23P Souriau
Connection, tool side	-	12S Souriau	19S compact Souriau

Options	Article number	Description
Cables and connectors for S/STC100-xE	P8116-40	4 m signal cable 12S - open end
	P8006	12S Souriau connector
Cable and connectors for S/STC100-xE19 signals	P81xx-40	4 m signal cable 12P - open end
	P8004	19S Souriau connector
Cables and connectors for S100-xE	P8105-20	2 m signal cable 19P compact - open end
	P8007	19P compactSouriau connector
Cables and connectors for S100-xE19 signals	P8114-20	2 m signal cable 12P - open end
	P8005	12P Souriau connector
Adaptation kits for S100	P0449	Adaptation kit to STC100 for ABB IRB 4600/40-45-60
	P0414	Adaptation kit to STC100 for ABB IRB 4400/45-60
	P0447	Adaptation kit to STC100 for ABB IRB 260
	P0665	Adaptation kit to STC100 for Fanuc R2000iB 100P
	P0669	Adaptation kit to STC100 for Fanuc R2000iB 165F/165R/125L/100H
	P0438	Adaptation kit to STC100 for Kuka KR100
	P0455	Adaptation kit to S100 for Kuka KR30-3, KR60-3
	P0437	Adaptation kit to STC100 for Motoman ES165N-100

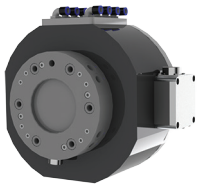
Material handling swivels

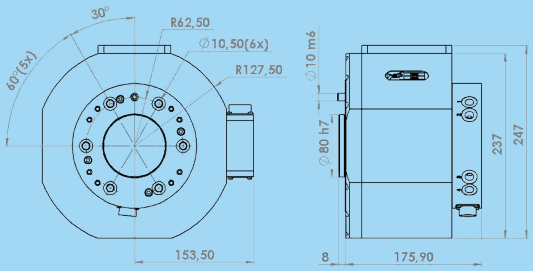
P6415
Swivel S250-8





P6416
Swivel S250-8E





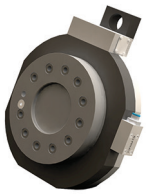
S250

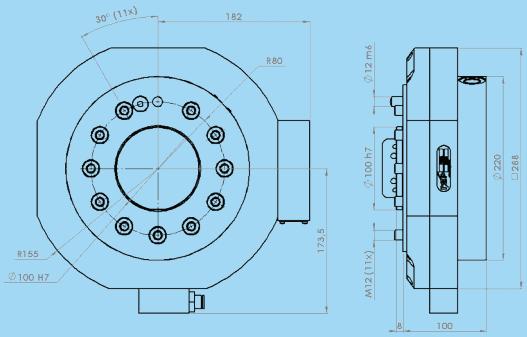
Type	S250-8	S250-8E
Article number	P6415	P6416
Weight (kg)	11.9	12.3
Mechanical interface	ISO 9409-1 125-6-M10	
Working temperature	+10°C - +60°C	
IP classification	IP 54	
	Maximum tool load	
Fz	± 2500 N	
Mz	± 2500 Nm	
Mx/My	± 2500 Nm	
	Air ducts	
Number of air ducts	8	
Max air pressure	10 bar	
Air flow	1600 l/min	
Connection robot, side	8 mm plastic hose or G 1/4"	
Connection, tool side	G 1/4"	
Pneumatic valve	-	
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content	
	Electrical signals	
Number of slip ring signals	-	18
Dedicated signals	-	1 +24V DC
	-	1 0V DC
Max current	-	2.0 A
Max voltage	-	60 V
Connection robot, side	-	23P Souriau
Connection, tool side	-	19S compact Souriau

Options	Article number	Description
Cables and connectors for S/STC250-xE	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Cables and connectors for S/TA250-xE	P8105-20	2 m signal cable 19P compact - open end
	P8007	19P compact Souriau connector
Adaptation kits for S250	P6419	Adaptation kit to STC250 for ABB IRB 6400
	P0683	Adaptation kit to STC250 for Fanuc R2000iB 175L/210F
	P6446	Adaptation kit to STC250 for Hyundai HX165S
	P6445	Adaptation kit to STC250 for Kawasaki ZX165U
	P6448	Adaptation kit to STC250 for Motoman ES165N-100
	P6461	Adaptation kit to STC250 for Kuka KR125/3
	P6447	Adaptation kit to STC250 for Nachi SH133/166

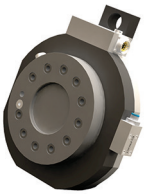
Material handling swivels

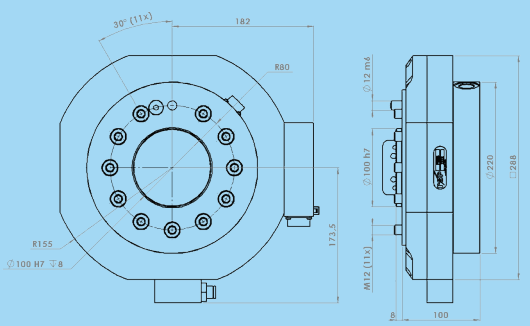
P0636
Swivel S350-1





P0633
Swivel S350-1E





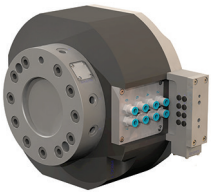
S350

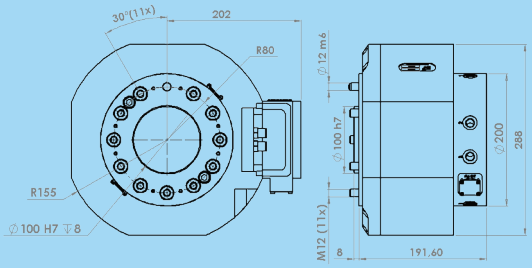
Type	S350-1	S350-1E
Article number	P0636	P0633
Weight (kg)	11.1	11.3
Mechanical interface	ISO 9409-1 160-11-M12	
Working temperature	+10°C - +60°C	
IP classification	IP 54	
	Maximum tool load	
Fz	± 3500 N	
Mz	± 2300 Nm	
Mx/My	± 2300 Nm	
	Air ducts	
Number of air ducts	1	
Max air pressure	10 bar	
Air flow	4000 l/min	
Connection, robot side	10 mm plastic hose or G1/2"	
Connection, tool side	G1/2"	
Pneumatic valve	-	
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content	
	Electrical signals	
Number of signals	-	14
Dedicated signals	-	
	-	
Max current	-	3.0 A
Max voltage	-	60 V
Connection, robot side	-	23P Souriau
Connection, tool side	-	19S compact Souriau

Options	Article number	Description
Cables and connectors for S350-1E	P8105-20	2 m signal cable 19P compact - open end
	P8007	19P compact Souriau connector
Cables and connectors for S/STC350-xE	8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Adaption kits for swivels 350	P0620	Adaption kit to S350 for ABB IRB 6600/2,55-175 and 6640/2,55-180
	P0621	Adaption kit to S350 for ABB IRB 66xx/others
	P0656	Adaption kit to S350 for ABB IRB 6620
	P0622	Adaption kit to S350 for ABB IRB 7600
	P0671	Adaption kit to S350 for Fanuc R2000iB 175L/210F

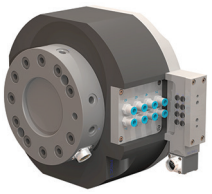
Material handling swivels

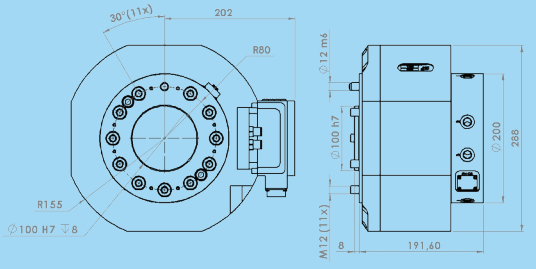
P0609
Swivel S350-8



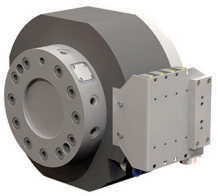


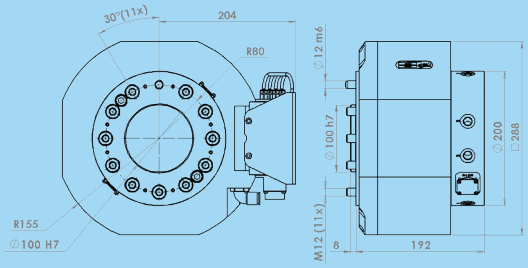
P0610
Swivel S350-8E



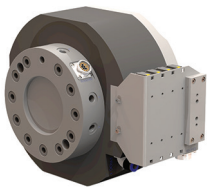


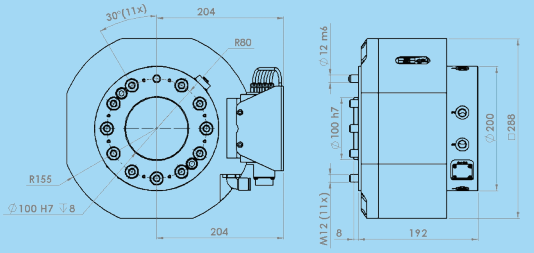
P0638
Swivel S350-8V4





P0625
Swivel S350-8EV4

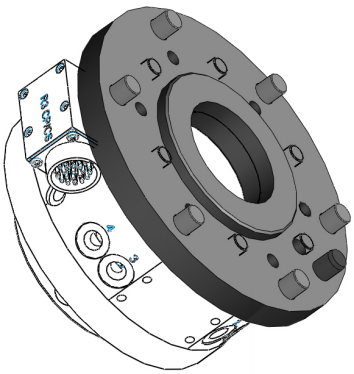




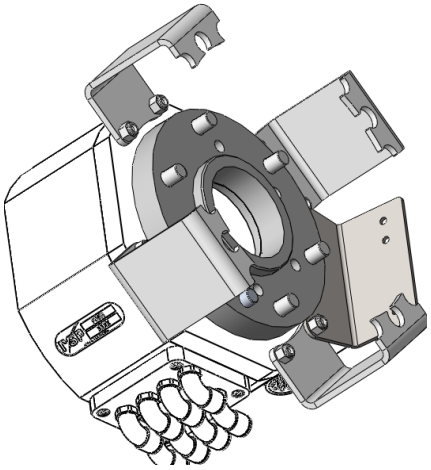
S350

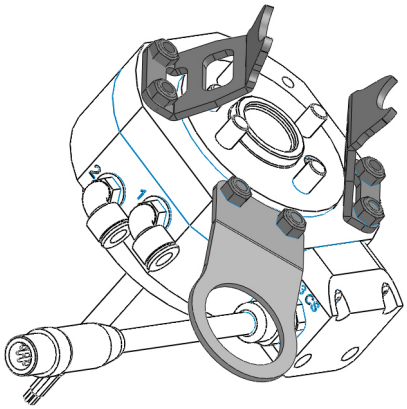
Type	S350-8	S350-8E	S350-8V4	S350-8EV4
Article number	P0609	P0610	P0638	P0625
Weight (kg)	19.2	19.4	19.4	19.7
Mechanical interface	ISO 9409-1 160-11-M12			
Working temperature	+10°C - +60°C			
IP classification	IP 54			
	Maximum tool load			
Fz	± 3500 N			
Mz	± 2300 Nm			
Mx/My	± 2300 Nm			
	Air ducts			
Number of air ducts	8			
Max air pressure	10 bar			
Air flow	800 l/min			
Connection, robot side	8 mm plastic hose or G1/4"		1x 10 mm plastic hose or G1/2"	
Connection, tool side	G 1/4"			
Pneumatic valve	-		Integrated TC-valves	
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals for valves	-		9	9
Number of signals	-	14	-	14
Dedicated signals	-	-	1 1V DC	1 +24 V DC
	-	-	-	1 0 DC
Max current	-	3.0 A	-	3.0 A
Max voltage	-	60 V	-	60 V
Connection, robot side	-	23P Souriau	23P Souriau	23P Souriau
Connection, tool side	-	19S Souriau	-	19S Souriau

Options	Article number	Description
Cables and connectors for S350-8E	P8102-20	2 m signal cable 19P - open end
	P8003	19P Souriau connector
Cables and connectors for S/STC350-xE	P8129-50	5 m signal cable 23S - open end
	P8002	23S Souriau connector
Adaption kits for swivels 350	P0620	Adaption kit to S350 for ABB IRB 6600/2,55-175 and 6640/2,55-180
	P0621	Adaption kit to S350 for ABB IRB 66xx/others
	P0656	Adaption kit to S350 for ABB IRB 6620
	P0622	Adaption kit to S350 for ABB IRB 7600
	P0671	Adaption kit to S350 for Fanuc R2000iB 175L/210F









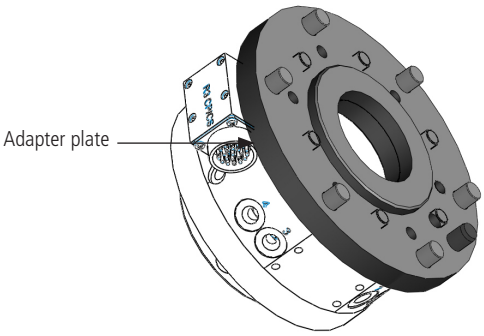
Options

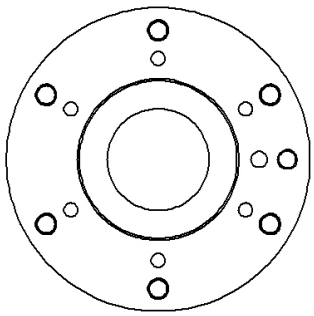
Options

Robot System Products design of swivel units are based on the ISO standard for robot flange. For the swivel unit to be able to function properly, an adapter kit has to be included. RSP also market adaptation plates for different ISO sizes.

NOTE! There is always a risk when a large robot is equipped with a small tool changer due to the fact that the larger robot produces higher forces in acceleration, deceleration and most importantly when the robot performe an emergency stop. The maximum dynamic forces are rated for each product and you can always consult a RSP representative or our website if you have any questions on how to select the right product for your robot.

Adaptation kits for tool changers



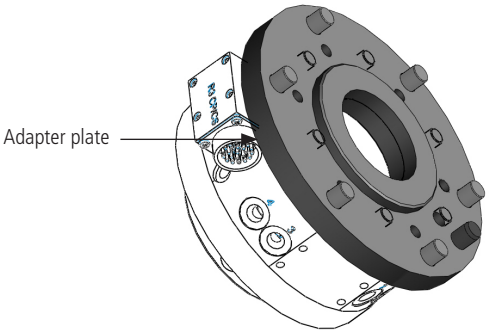


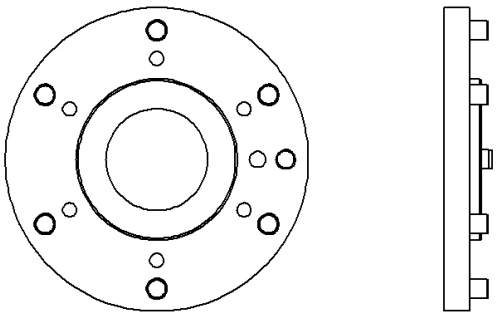


All screws are included.

Tool changer	Article number	Robot model	Mechanical interface robot flange	Weight (Kg)	Adapter plate thickness (mm)
TC20	-	Fits directly to robot with ISO-flange	ISO 9409-1 50-4-M6	-	-
	P0105	ABB IRB2400/10 & /16	ISO 9409-1 40-4-M6	0.24	12
		ABB IRB2600/12 & /20			
		ABB IRB4400/L10			
		ABB IRB 4600-20/2.50			
	P0164	ABB IRB4400/45 & /60	100-6-M10	1.27	12
		ABB IRB4400/L30			
		ABB IRB 4600-40/2.55-45/2.05-60/2.05			
	P0162	KUKA KR15/2, KR15LS	ISO 9409-1 50-7-M6	0.21	10
		KUKA KR16, KR16KS			
		KUKA KR30L16			
	P0163	KUKA KR30-3, KR30-3KS, KR30-HA	ISO 9409-1 50-7-M6	1.22	12
		KUKA KR40-PA			
		KUKA KR60-3, KR60-3KS, KR60-3HA			
	P0169	FANUC M20iA/20	56-15-M4	0.25	14
TC100	-	Fits directly to robot with ISO-Flange	ISO 9409-1 100-6-M10	-	-
	P0450	ABB IRB260	ISO 9409-1 80-6-M8	0.81	12
		Motoman UP50N & UP50N-35			
		Motoman EPL80			
		Kawasaki FA30L, FC30L, FC30N, FS30L, FS30N			
		Kawasaki FC45C, FC45N, FS45C, FS45N			
		Kawasaki FC60L, FX60L			
	P0434	ABB IRB6600/2.55-175	ISO 9409-1 160-11-M12	3.88	14
		ABB IRB6640/2.55-180			
		ABB IRB6600/others			
		ABB IRB6640/others			
		ABB IRB6620			
	P0445	Motoman ES165N, ES165N-100	ISO 9409-1 125-6-M10	2.08	18
		Motoman ES200N			
	P0442	ABB IRB6400	ISO 9409-1 125-6-M10	2.09	18
		FANUC M410iB/160 & /300			
		Kawasaki ZZX130L, ZZX130U			
		Kawasaki ZZX165U			
		Kawasaki ZZX200S			
		Kawasaki ZZT130U			
		Kawasaki ZZT165U			

Adaptation kits for tool changers

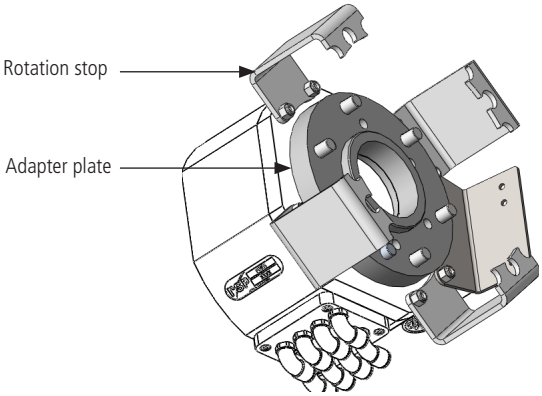


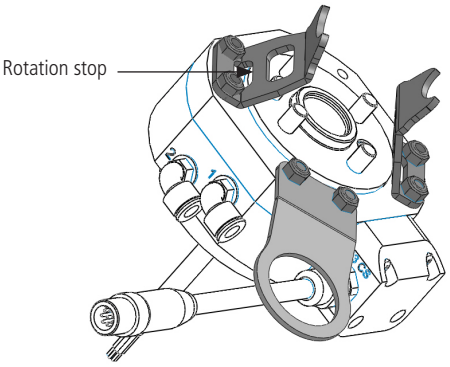


All screws are included.

Tool changer	Article number	Robot model	Mechanical interface robot flange	Weight (Kg)	Adapter plate thickness (mm)
TC240, TC250, TC275	-	Fits directly to robot with ISO-flange	ISO 9409-1 125-6-M10	-	-
	P6428	ABB IRB6600/2.55-175	ISO 9409-1 160-11-M12	3.30	16
		ABB IRB6640/2.55-180			
		ABB IRB6600/others			
		ABB IRB6640/others			
		ABB IRB6620			
TC350, TC480, TC500	-	Fits directly to robot with ISO-Flange	ISO 9409-1 160-11-M12	-	-
	P0657	ABB IRB7600	ISO 9409-1 200-12-M16	6.43	25
	P0664	KUKA KR360-2, KR360 450-2PA	ISO 9409-1 200-6-M12	5.5	25
		KUKA KR500-2, KR500-2CR, KR500 570-2PA			
		Kawasaki MX350L			
		Kawasaki MX420L			
		Kawasaki MX500N			
	P6430	Motoman ES165N, ES165N-100	ISO 9409-1 125-6-M10	2.74	16
	P0670	FANUC R2000iB 175L/210F	ISO 9409-1 125-10-M10	2.16	15

Adaptation kits for swivels and swivels with tool changer

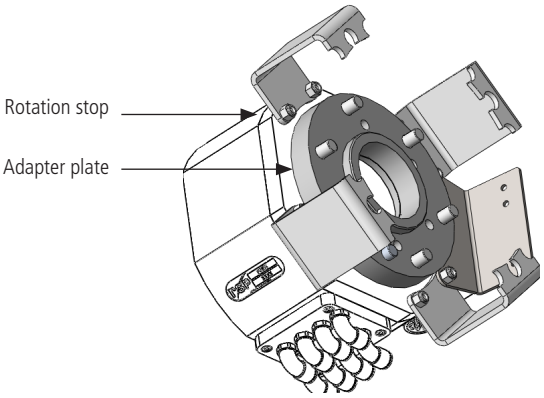


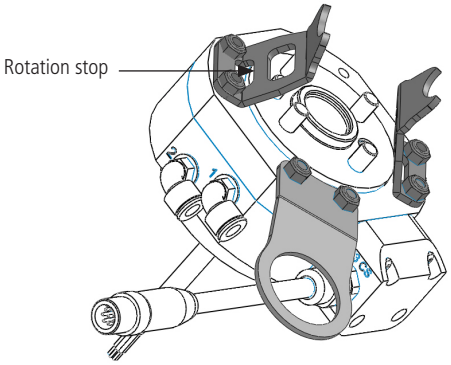


All screws are included.

Swivel	Article number	Robot model	Weight	Adapter plate thickness (mm)
S20, STC20	P0116	ABB IRB140, 2400/L5 and old 1600	0.1	-
	P0143	ABB IRB140, IRB 1600	0.09	-
	P0117	ABB IRB1400, IRB 1410	0.09	-
	P0118	ABB IRB2400/10 & /16	0.32	12
		ABB IRB2600/12 & /20		
		ABB IRB 4400/L10		
		ABB IRB 4600-20/2.50		
	P0158	KUKA KR6	0.07	-
	P0161	KUKA KR15	0.37	10
	P0159	KUKA KR16	1.09	10
	P0145	Motoman UP6-UP20	0.14	-
S100, STC100	P0447	ABB IRB260	1.28	12
	P0414	ABB IRB4400/60 & L30	0.31	-
	P0449	ABB IRB4600-40/2.55, -45/2.05, -60/2.05	0.73	-
	P0416	ABB IRB6400	2.26	18
	P0435	ABB IRB6600/2.55-175	4.12	14
		ABB IRB6640/2.55-180		
	P0422	ABB IRB6600/others	4.06	14
		ABB IRB6640/other		
		ABB IRB6650S 125		
	P0436	ABB IRB6620 with optional side seal	3.78	14
	P0455	KUKA KR30-3, KR60-3	1.17	-
	P0438	KUKA KR100	3.06	13
	P0437	Motoman ES165N-100	3.17	16.8
	P0669	FANUC R2000iB 165F/165R/125L/100H	2.48	18
	P0665	FANUC R2000iB 100P	2.5	15
S250, STC250	P6419	ABB IRB6400	0.70	-
	P6424	ABB IRB6600/2.55-175	4.12	16
		ABB IRB6640/2.55-180		
	P6425	ABB IRB6600/others	4.25	16
		ABB IRB6640/other		
		ABB IRB6650S 125		

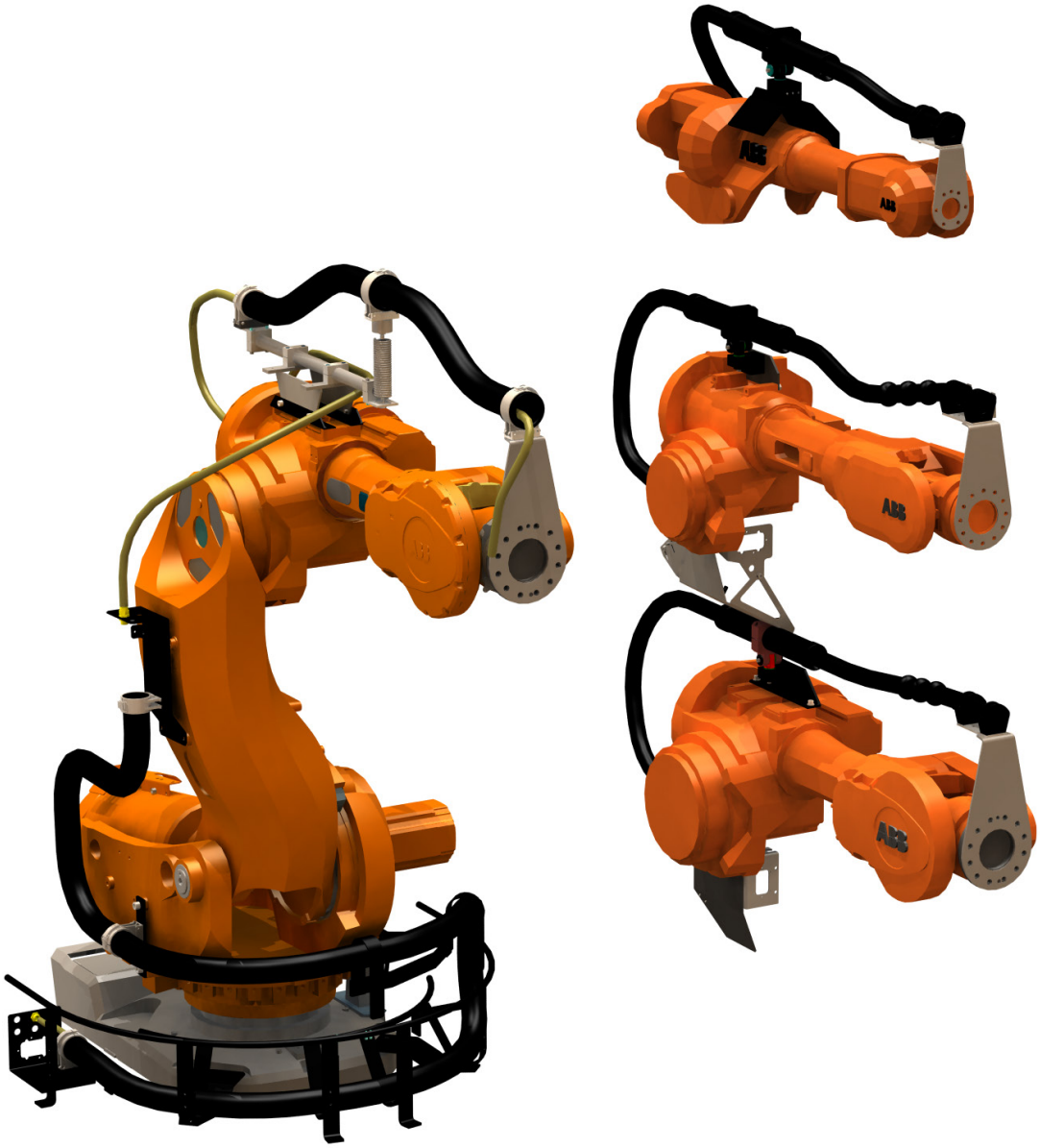
Adaptation kits for swivels and swivels with tool changer





All screws are included.

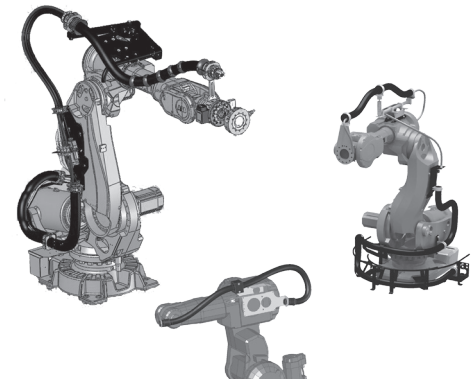
Swivel	Article number	Robot model	Weight	Adapter plate thickness (mm)
S250, STC250	P6427	ABB IRB6620	4.05	16
	P6461	KUKA KR125/3		
	P6448	Motoman ES165N	1.84	-
	P0683	FANUC R2000iB 175L/210F	0.38	-
	P6445	Kawasaki ZX165U	0.38	-
	P6446	Hyundai HX165S	0.38	-
	P6447	Nachi SH133/166	0.40	-
S350, STC350	P0620	ABB IRB6600/2.55-175	0.99	-
		ABB IRB6640/2.55-180		
	P0621	ABB IRB6600/others	1.06	-
		ABB IRB6400/others		
		ABB IRB6650S 125		
	P0656	ABB IRB6620 with optional side seal	0.74	-
	P0622	ABB IRB7600		
	P0671	FANUC R2000iB 175L/210F		
S350, STC350 Sealed version	P0696	ABB IRB6600/2.55-175	1.96	-
		ABB IRB6640/2.55-180		
	P0697	ABB IRB6600/others	1.84	-
		ABB IRB6400/others		
		ABB IRB6650S 125		



Hose packages

Hose packages

The hose packages will simplify the installation of extra cabling. Together with our swivel the upper arm hose design allows the robot to move freely with pressure on the application cabling. Without a swivel there will be limited of the 4-6:e axes movement. The design of the hose packages has proven technology and increases the lifespann of your cabling. The hose packages include all necessary bolts and brackets for your robot.



The Hose packages include all necessary bolts and brackets for your robot

RSP hose packages advantages

- No tension on application cabling
- Pre-engineered and function tested
- Quick and easy installation
- Field proven technology
- Modular designs

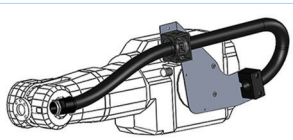
Installation

- Reduced installation time since all RSP hose packages are engineered to fit your robot, making it easy to mount with our modular designs

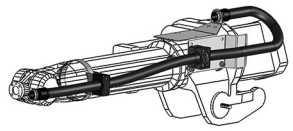
Maintenance

- Low maintenance requirements, as RSP has long experience in producing high durable DressPackages
- Modular design is fast and easy to replace

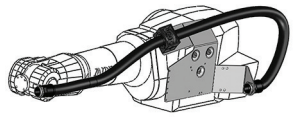
Hose packages for swivel solutions - upper arm



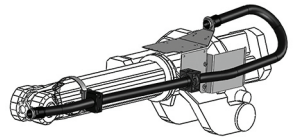
Part number	Description	Robot model
P0030	Hose package ABB IRB 140	ABB IRB 140
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
0.9	22	28



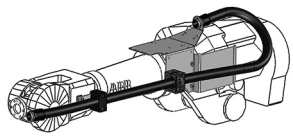
Part number	Description	Robot model
P0031	Hose package ABB IRB 1400	ABB IRB 1400
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.3	22	28



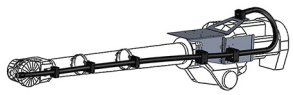
Part number	Description	Robot model
P0034	Hose package ABB IRB 1600	ABB IRB 1600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.2	22	28



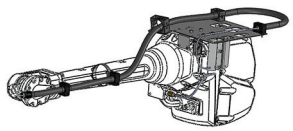
Part number	Description	Robot model
P0032	Hose package ABB IRB 2400/L5	ABB IRB 2400/L5
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.5	22	28



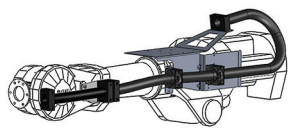
Part number	Description	Robot model
P0033	Hose package ABB IRB 2600/12-20, 2400/10-16	ABB IRB 2600/12-20, 2400/10-16
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.44	22	28



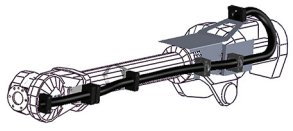
Part number	Description	Robot model
P0063	Hose package ABB IRB 4400/L10	ABB IRB 4400/L10
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.35	23	28



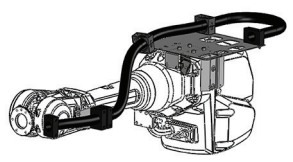
Part number	Description	Robot model
P0465	Hose package ABB IRB 4600/20	ABB IRB 4600/20
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.6	22	28



Part number	Description	Robot model
P0060	Hose package ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.52	36	43

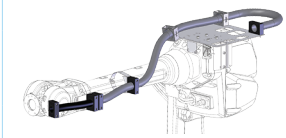


Part number	Description	Robot model
P0061	Hose package ABB IRB 4400L/30	ABB IRB 4400L/30
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.4	36	43

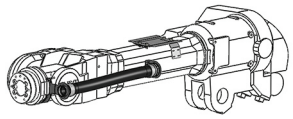


Part number	Description	Robot model
P0463	Hose package ABB IRB 4600/45-60	ABB IRB 4600/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.24	36	43

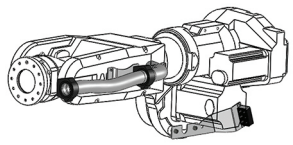
Hose packages for swivel solutions - upper arm



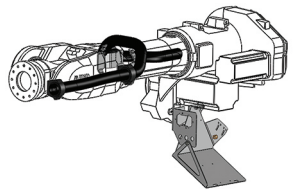
Part number	Description	Robot model
P0464	Hose package ABB IRB 4600/40	ABB IRB 4600/40
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.3	36	43



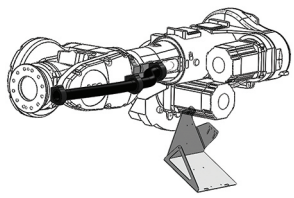
Part number	Description	Robot model
P0643	Hose package ABB IRB 6400	ABB IRB 6400
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
0.8	47	55



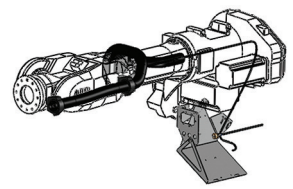
Part number	Description	Robot model
P0616	Hose package ABB IRB 6620 through axis 4	ABB IRB 6620
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
0.82	47	55



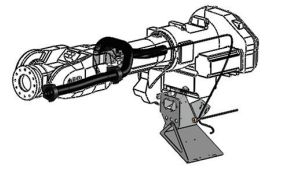
Part number	Description	Robot model
P0635	Hose package ABB IRB 66xx through axis 4	ABB IRB 66xx
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.015	47	55



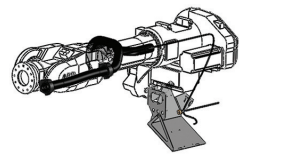
Part number	Description	Robot model
P0719	Hose package ABB IRB 7600	ABB IRB 7600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.17	47	55



Part number	Description	Robot model
P0674	Hose package ABB IRB 66xx through axis 4. IRC5, digital I/O axis 3	ABB IRB 66xx
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.015	47	55



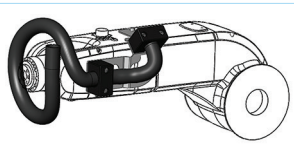
Part number	Description	Robot model
P0675	Hose package ABB IRB 66xx through axis 4. IRC5, Profibus axis 3	ABB IRB 66xx
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.015	47	55



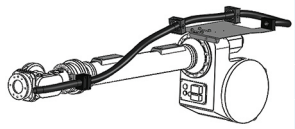
Part number	Description	Robot model
P0676	Hose package ABB IRB 66xx through axis 4. IRC5, Device Net axis 3	Hose package ABB IRB 66xx through axis 4. IRC5, Device Net axis 3
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.015	47	55

Part number	Description	Robot model
P0673	Hose package ABB IRB 6620 IRC, digital I/O axis 3	ABB IRB 6620 IRC, digital I/O axis 3
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**

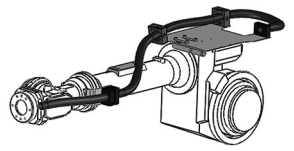
Hose packages for swivel solutions - upper arm



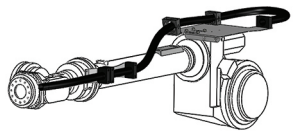
Part number	Description	Robot model
P0122	Hose package Denso VS-6556G	Denso VS-6556G
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
0.85	23	28



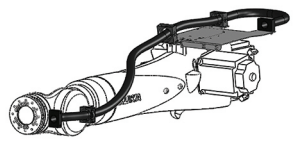
Part number	Description	Robot model
P2401	Hose package Fanuc R2000iA 125L	Fanuc R2000iA 125L
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.85	36	43



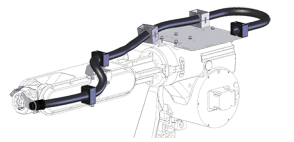
Part number	Description	Robot model
P2402	Hose package Fanuc R2000iB 165F	Fanuc R2000iB 165F
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.6	36	43



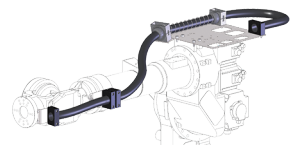
Part number	Description	Robot model
P0655	Hose package Fanuc R2000iB 100P	Fanuc R2000iB 100P
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.88	36	43



Part number	Description	Robot model
P2301	Hose package KUKA KR210 R3100	KUKA KR210 R3100
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.2	36	43



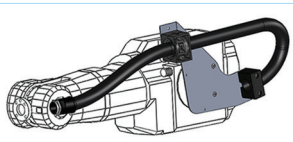
Part number	Description	Robot model
P2201	Hose package Motoman UP6-UP20	Motoman UP6-UP20
1.6	23	28



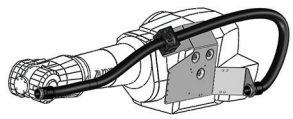
Part number	Description	Robot model
P2204	Hose package Motoman ES 165D	Motoman ES 165D
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.3	36	43

Options	Article number	Description	Note
Signal cable from small valve unit to swivel/tool changer 20 (to be put into the hose package)	P0025	2 m signal cable 8P - 8S	Robots with long arm
	P0025-30	3 m signal cable 8P - 8S	Robots with long arm
Signal cable from large valve unit to swivel/tool changer 100 (to be put into the hose package)	P0055-25	2.5 m signal cable 23P - 23S	ABB IRB 4400/45-60
	P0055-30	3 m signal cable 23P - 12S	ABB IRB 4600/45-60
	P0055-38	3.8 m signal cable 23P - 12S	ABB IRB 4600/40, 4400L/30
Signal cable from large valve unit to swivel/tool changer 250/350 (to be put into the hose package)	P0066-14	1.4 m signal cable 23P - 23S	ABB IRB 6400
	P0066-30	3 m signal cable 23P - 23S	ABB IRB 6620
	P0066-38	3.8 m signal cable 23P - 23S	ABB IRB 66xx/7600-2.55, 6650-2.75, 6650S-3.0
	P0066-40	4 m signal cable 23P - 23S	ABB IRB 66xx-2.8
	P0066-42	4.2 m signal cable 23P - 23S	ABB IRB 6650-3.2, 6650S-3.5
	P0066-46	4.6 m signal cable 23P - 23S	ABB IRB 6650S/3.9
	P0054-13	1.3 m signal/bus cable 23P - 23S	ABB IRB 6400
	P0054-30	3 m signal/bus cable 23P - 23S	ABB IRB 6620
	P0054-38	3.8 m signal/bus cable 23P - 23S	ABB IRB 66xx/7600-2.55, 6650-2.75, 6650S-3.0
	P0054-40	4.0 m signal/bus cable 23P - 23S	ABB IRB 66xx-2.8
	P0054-42	4.2 m signal/bus cable 23P - 23S	ABB IRB 6650-3.2, 6650S-3.5
	P0054-46	4.6 m signal/bus cable 23P - 23S	ABB IRB 6650S/3.9

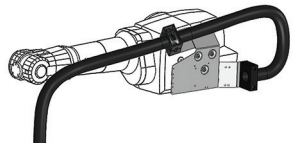
Hose packages for general solutions - upper arm



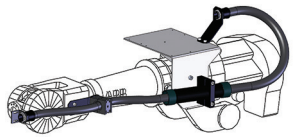
Part number	Description	Robot model
P0030	Hose package 22/28 ABB IRB 140	ABB IRB 140
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
0.9	22	28



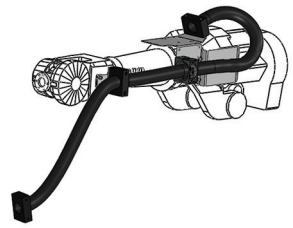
Part number	Description	Robot model
P0034	Hose package 22/28 ABB IRB 1600	ABB IRB 1600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.2	22	28



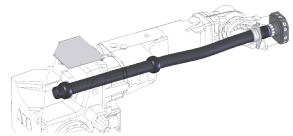
Part number	Description	Robot model
P2111	Hose package 36/43 ABB IRB 1600	ABB IRB 1600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.2	36	43



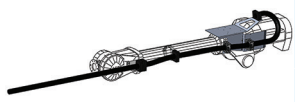
Part number	Description	Robot model
3HXC0000-6	Hose package 27/35 ABB IRB 2400/10-16	ABB IRB 2400/10-16
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.6	22	28



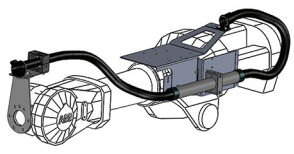
Part number	Description	Robot model
P0126	Hose package 36/43 ABB IRB 2600/12-20, 2400/10-16	ABB IRB 2600/12-20, 2400/10-16
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.55	36	43



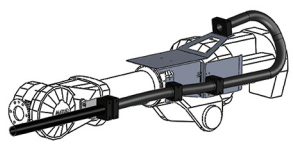
Part number	Description	Robot model
P2126 P1318	Hose package 36/43 ABB IRB 2600 ID Hollow vrist manifolder TC60, IRB2600 ID	ABB IRB 2600 ID
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
0.9	36	43



Part number	Description	Robot model
P0088	Hose package 36/43 ABB IRB 4400/L30	ABB IRB 4400/L30
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.1	36	43

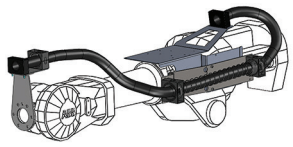


Part number	Description	Robot model
P0062	Hose package 27/35 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.2	27	35

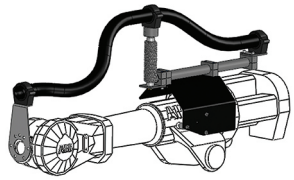


Part number	Description	Robot model
P0087	Hose package 36/43 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.6	36	43

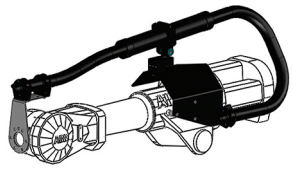
Hose packages for general solutions - upper arm



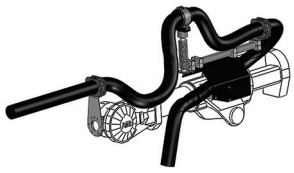
Part number	Description	Robot model
P0462	Hose package 36/43 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DI (mm)**
2	36	43



Part number	Description	Robot model
3HXC0100-546	Hose package 46/54 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.5	46	54



Part number	Description	Robot model
3HXC0100-570	Hose package 46/54 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.4	46	54



Part number	Description	Robot model
P0446	Hose package 68/83 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
5	68	83



Part number	Description	Robot model
P0468	Hose package 22/28 ABB IRB 4600/20	ABB IRB 4600/20
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.6	22	28



Part number	Description	Robot model
P0470	Hose package 36/43 ABB IRB 4600/20	ABB IRB 4600/20
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.6	36	43

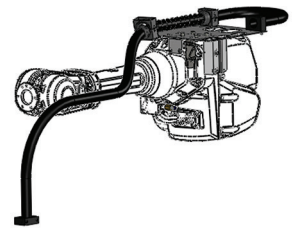


Part number	Description	Robot model
P0467	Hose package 36/43 ABB IRB 4600/40	ABB IRB 4600/40
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.65	36	43

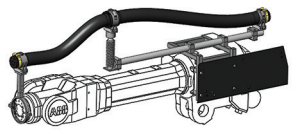
Hose packages for general solutions - upper arm



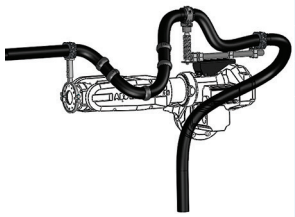
Part number	Description	Robot model
P0466	Hose package 36/43 ABB IRB 4600/45-60	ABB IRB 4600/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.25	36	43



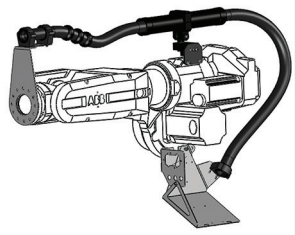
Part number	Description	Robot model
P0469	Hose package 36/43 ABB IRB 4600/45-60	ABB IRB 4600/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.6	36	43



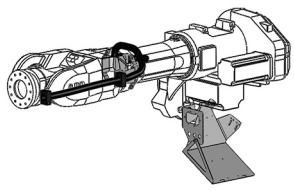
Part number	Description	Robot model
3HXB0000-49	Hose package 70/83 ABB IRB 6400	ABB IRB 6400
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3	70	83



Part number	Description	Robot model
P6655	Hose package 68/83 ABB IRB 6620	ABB IRB 6620
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
5.5	68	83

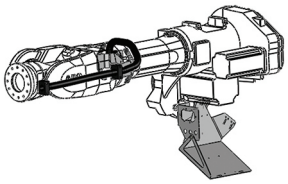


Part number	Description	Robot model
P2115	Hose package 46/54 ABB IRB 6620	ABB IRB 6620
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3	46	54

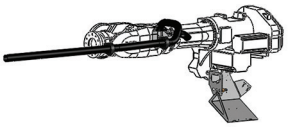


Part number	Description	Robot model
P0642	Hose package 28/34 ABB IRB 6640/6600 through axis 4	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3	28	34

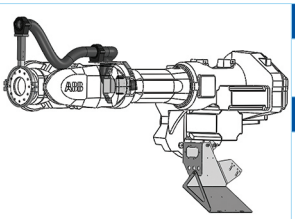
Hose packages for general solutions - upper arm



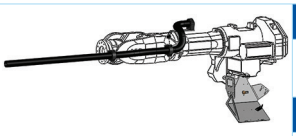
Part number	Description	Robot model
P0640	Hose package 28/34 ABB IRB 6640/6600 through axis 4	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
5	28	34



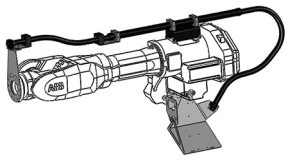
Part number	Description	Robot model
P0659	Hose package 47/55 ABB IRB 6640/6600 through axis 4	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.02	47	55



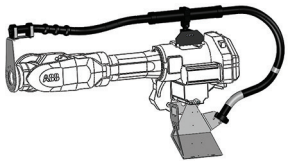
Part number	Description	Robot model
P0677	Hose package 47/55 ABB IRB 6640/6600	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.35	47	55



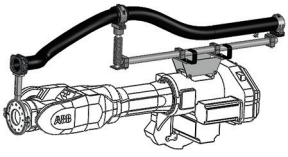
Part number	Description	Robot model
P0661	Hose package 47/55 ABB IRB 6640/6600 through axis 4	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.02	47	55



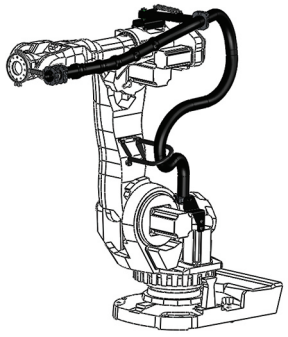
Part number	Description	Robot model
3HXC0100-566	Hose package 27/35 ABB IRB 6640/6600	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
4	27	35



Part number	Description	Robot model
3HXC0100-564	Hose package 46/54 ABB IRB 6640/6600	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.95-3.85	46	54

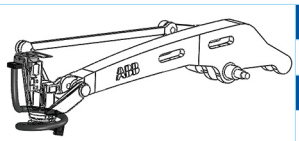


Part number	Description	Robot model
3HXB0000-175	Hose package 70/83 ABB IRB 6640/6600	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3	70	83

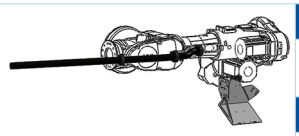


Part number	Description	Robot model
P2112	Hose package 68/83 ABB IRB 6640/6600	ABB IRB 6640/6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
4.6	68	83

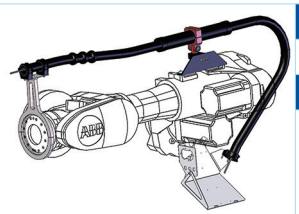
Hose packages for general solutions - upper arm



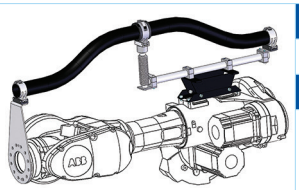
Part number	Description	Robot model
P2113	Hose package 36/43 ABB IRB 660	ABB IRB 660
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2	36	43



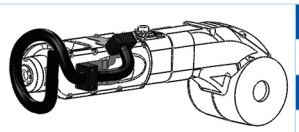
Part number	Description	Robot model
P0662	Hose package 47/55 ABB IRB 7600 through axis 4	ABB IRB 7600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.2	47	55



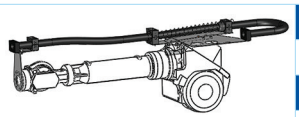
Part number	Description	Robot model
3HXC0100-565	Hose package 46/54 ABB IRB 7600	ABB IRB 7600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
4.5	46	54



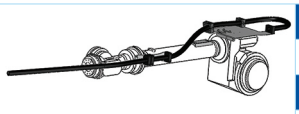
Part number	Description	Robot model
3HXB0100-581	Hose package 70/83 ABB IRB 7600	ABB IRB 7600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.2	70	83



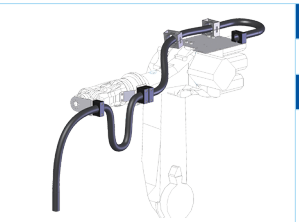
Part number	Description	Robot model
P0128	Hose package 22/28 Denso VM60B1	Denso VM60B1
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1	22	28



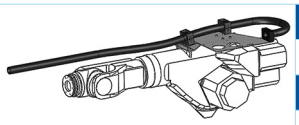
Part number	Description	Robot model
P2403	Hose package 36/43 Fanuc M710-i	Fanuc M710-i
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.3	36	43



Part number	Description	Robot model
P0655L	Hose package 36/43 Fanuc R2000iB	Fanuc R2000iB
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.88	36	43

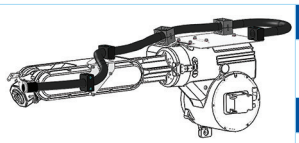


Part number	Description	Robot model
P2303	Hose package 27/35 KUKA KR6	
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.5	27	35

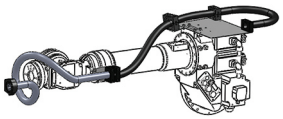


Part number	Description	Robot model
P2302	Hose package 36/43 KUKA KR60	KUKA KR60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.2	36	43

Hose packages for general solutions - upper arm



Part number	Description	Robot model
P2201	Hose package 23/28 Motoman UP6-UP20	Motoman UP6-UP20
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.6	23	28



Part number	Description	Robot model
P0672	Hose package 36/43 Motoman ES 165	Motoman ES 165
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.8	36	43

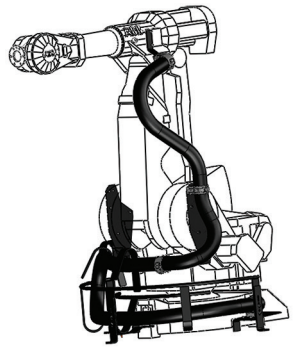


Part number	Description	Robot model
P2501	Hose package 23/28 Universal robot UR5	Universal robot UR5
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.8	23	28

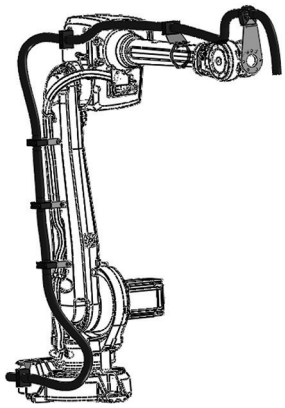


Robot model	Description	Robot model
P2502	Hose package 23/28 Universal robot UR10	Universal robot UR10
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
2.2	23	28

Hose packages for general solutions - lower arm

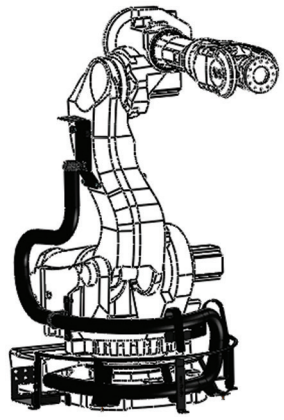


Part number	Description	Robot model
3HXC0100-544	Hose package lower arm 67/80 ABB IRB 4400/45-60	ABB IRB 4400/45-60
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
4.2	67	80

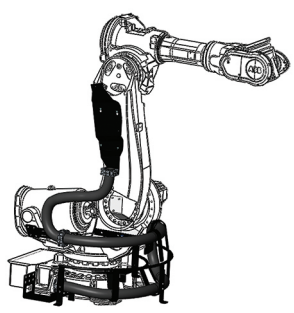


Part number	Description	Robot model
P2101	Hose package axis 1-6 36/43 ABB IRB 4600/40	ABB IRB 4600/40
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
6	36	43

Part number	Description	Robot model
3HXB0000-50	Hose package lower arm 67/80 ABB IRB 6400	ABB IRB 6400
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**

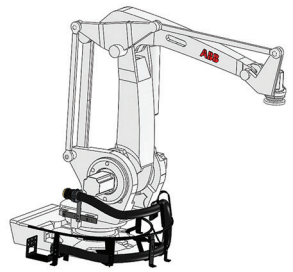


Part number	Description	Robot model
3HXB0100-565	Hose package lower arm 67/80 ABB IRB 6600	ABB IRB 6600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
4.15	67	80

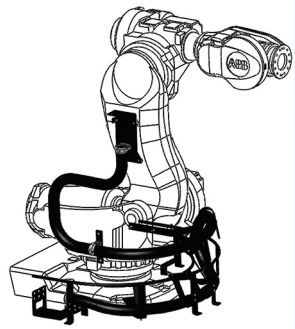


Part number	Description	Robot model
P0689	Hose package lower arm 67/80 ABB IRB 6640	ABB IRB 6640
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
4.15	67	80

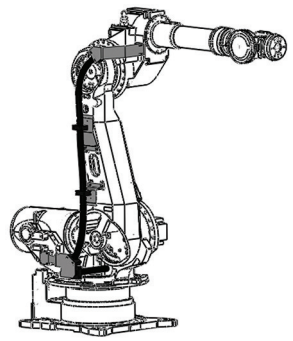
Hose packages for general solutions - lower arm



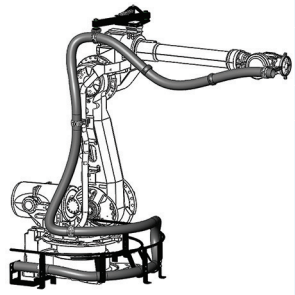
Part number	Description	Robot model
P0690	Hose package lower arm 67/80 ABB IRB 6660, 660	ABB IRB 6660, 660
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.3	67	80



Part number	Description	Robot model
3HXB0100-580	Hose package lower arm 67/80 ABB IRB 7600	ABB IRB 7600
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
5	67	80



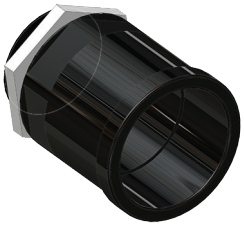
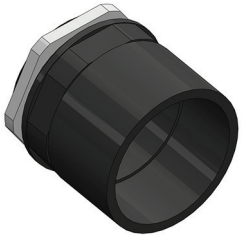
Part number	Description	Robot model
P0682	Hose package lower arm 36/43 Motoman ES 165	Motoman ES 165
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
1.8	36	43



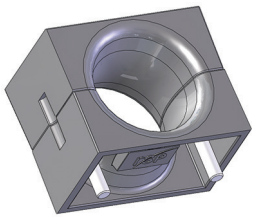
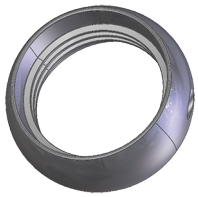
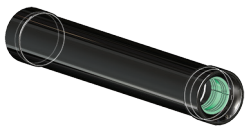
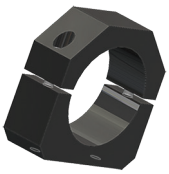
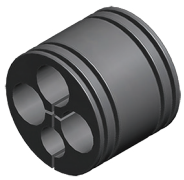
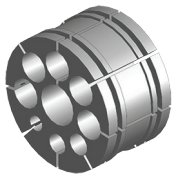
Part number	Description	Robot model
P2202	Hose package lower arm 67/80 ABB IRB 6660, 660	ABB IRB 6660, 660
Hose length (m)	**Hose DI (mm)**	**Hose DO (mm)**
3.3	67	80

Options	Article number	Description
Signal cable from valve unit with open end (to be put into the hose package)	P025-30	3 m signal cable 8P - 8S
	P8150-28	2.8 m signal cable 23P - open end (for P2126)
	P0065-50	5 m signal cable 23P - open end
	P0065-70	7 m signal cable 23P - open end
	P0053-50	5 m signal/bus cable 23P - open end
	P0053-70	7 m signal/bus cable 23P - open end
Signal cable from robots connection point with open end (to be put into the hose package)	P0051-100	10 m signal cable ABB Harting digital I/O - open end

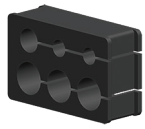
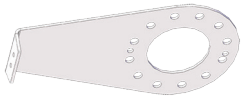
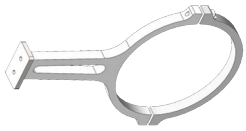
Hose package accessories

Reference Picture		Article number	Description
	For protective hose 22/28	18651978-5	Protective hose PISG-23B
		I0614	Protective hose PARAB-23F
		10690	Protective hose PURRB-23G
	For protective hose 28/34	18651978-6	Protective hose PISG-29B
		I0400	Protective hose PURRB-29G
	For protective hose 36/43	I0370	Protective hose PARAB-36G
		I0583	Protective hose PURRB-36G
		I0676	Protective hose PURRB-36F
		I0827	Protective hose PIST-36B
	For protective hose 47/55	18651997-8	Protective hose PISG-48S
		I0270	Protective hose PARAB-48G
		I0340	Protective hose PURRB-48G
	For protective hose 67/80	18651997-9	Protective hose PIHG-70B
	For protective hose 68/83	3HXG1000-284	Protective hose PURRB-70G
		I0465	Protective hose PURVB-70G
	For protective hose 95/120	18651997-10	Ptotective hose PIHG-95S
	For protective hose 22/28	10324	Hose clamp for NW23 hose
		P8219	Hose clamp for NW23 hose
		3HXC1000-152	Hose clamp for NW23 hose
	For protective hose 28/34	I0335	Hose clamp for NW29 hose
		P8222	Hose clamp for NW29 hose
		3HXC1000-17	Hose clamp for NW29 hose
		P8223	Hose clamp with swiveling insert NW29 hose
	For protective hose 36/43	I0369	Hose clamp for NW36 hose
		P8225	Hose clamp with swiveling insert NW36 hose
	For protective hose 47/55	P8226	Hose clamp for NW48 hose
		P8227	Hose clamp with swiveling insert for NW48 hose
		P8228	Hose clamp with sliding insert for NW48 hose
		21661953-5	Hose clamp for BGP-48
		21661951-9	Hose clamp for BFH-48
		P8205	Aluminium hose clamp sperical NW48
		P8207	Swiveling insert NW48 for above clamp (P8205)
	For protective hose 67/80	63550004-HF	Aluiminium hose clamp for 80 mm hose/rubber grommet
		63550004-JA	Aluminium hose clamp for swiveling insert 100 mm
		3HXB0100-183	Rotating insert 100 to above clamp for 80 mm hose
	For protective hose 68/83	P0078	Aluminium hose clamp Ø83 NW70
		P8206	Aluminium hose clamp spherical NW70
		P8208	Swiveling insert NW70 for above clamp
		P8214	Rotating insert NW70 for above clamp

Hose package accessories

Reference Picture		Article number	Description
	For protective hose 22/28	P8201	Hose guide for NW23 hose
		P8202	Hose guide for NW36 hose
	For protective hose 28/34	P8202	Hose guide for NW36 hose
	For protective hose 36/43	P8202	Hose guide for NW36 hose
	For protective hose 47/55	P8203	Hose guide for NW48 hose
	For protective hose 67/80	P8204	Hose guide for NW70 hose
	For protective hose 68/83	P8204	Hose guide for NW70 hose
	For protective hose 36/43	I0677	Hose protection for PAPR-36G
	For protective hose 47/55	P0679	Hose protection for NW48 hose
		I0408	Hose protection PAPRB-48
	For protective hose 68/83	P0648	Hose protection for NW70 hose
	For protective hose inner diameter 63	P9007	Hose swivel for vacuum hose with 63 mm inner diameter
	For protective hose 22/28	P8220-2	Springloaded tube 200 mm
		P8220-4	Springloaded tube 400 mm
	For protective hose 28/34	P8224-2	Springloaded tube 200 mm
		P8224-4	Springloaded tube 400 mm
		P8224-10	Springloaded tube 1000 mm
	For protective hose 47/55	P8229-5	Springloaded tube 500 mm
	For protective hose 68/83	P8233	Springloaded retractor arm right
		P8234	Springloaded retractor arm left
	For protective hose 22/28	I0414	Stright holder for tube
		P8221	Angled holder for tube
	For protective hose 28/34	I0414	Stright holder for tube
		P8221	Angled holder for tube
	For protective hose 47/55	P8230	Stright holder for tube
		P8231	Movable holder
	For protective hose 47/55	P0234-015	Rubber Grommet NW48; 4 holes: 3x19 mm, 1x14 mm
	For protective hose 67/80	635500006-407	Rubber Grommet D80; 7 holes: 1x24mm, 2x19mm, 2x15.5mm, 2x12.5mm
		635500006-408	Rubber Grommet D80; 7 holes: 1x24mm, 3x19mm, 1x15.5mm, 2x12.5mm
		3HXB1000-144	Rubber Grommet D80; 7 holes: 1x30mm, 3x20mm, 1x17mm, 1x10.5mm, 1x8mm
		3HXB1000-230	Rubber Grommet D80; 7 holes: 1x22.4mm, 4x19mm, 1x12.6mm, 1x11.6mm
		3HXB1000-386	Rubber Grommet D80; 7 holes: 1x24mm, 4x19mm, 1x15.5mm, 1x12.5mm
		3HXB1000-349	Rubber Grommet D80; 9 holes: 1x26mm, 4x19mm, 1x15,5mm, 1x14mm, 2x8mm
	For protective hose 68/83	P0172-104	Rubber Grommet NW70; 9 holes: 1x26mm, 5x19mm, 2x14mm, 1x10mm
		P0234-100	Rubber Grommet NW70; 9 holes for P8208: 1x26mm, 5x19mm, 2x14mm, 1x10mm

Hose package accessories

Reference Picture		Article number	Description
 	Rubber grommet square 80x50 mm	P0234-022	6 holes: 3x19 mm, 1x14 mm, 2x10 mm
		P0234-021	Bracket to above grommet
 	Axis 6 brackets	P0221-013	Axis 6 bracket hole pattern according to ISO 9409-1 100-6-M10
		P0218-023	Axis 6 bracket hole pattern according to ISO 9409-1 160-11-M12
		P0218-029	Axis 6 bracket hole pattern according to ISO 9409-1 200-12-M16
		P8209	Axis 6 bracket Ø160
		P8210	Axis 6 bracket Ø200
		A0226-008	Adjustable axis 6 bracket Ø160
		3HXB0100-70	Adjustable axis 6 bracket Ø200



Valve units

Valve units

Our family of valve units are made for mounting on any type of robot. Air and electrical connections is combined into one compact unit. The tool changing function built in to the unit controls the air supply to the other valves which simplifies the programming of the robot. Sensor interface i.e. pressure switch, field busses and vacuum modules are some of the options available.

Advantages by using a ISO Vale unit:

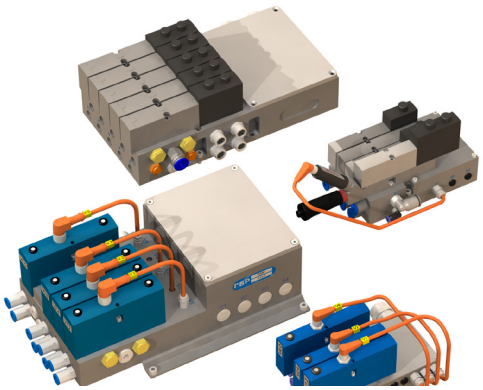
- Designed for robot mount
- Tool changing function integrated
- Standard (ISO) valve interface supported by all major valve manufacture
- Field bus compatible
- Integrated electrical connection box
- Vacuum module available

Installation

- Reduced installation time since all RSP Valve unit comes with standard connections to any robot brand
- All electrical and pneumatic is standard and follow the robot manufactures guidelines

Maintenance

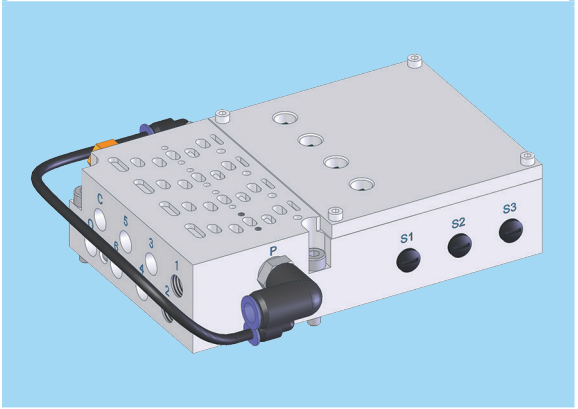
- Easy to find replace valves since it's ISO standard
- Predictable maintenance



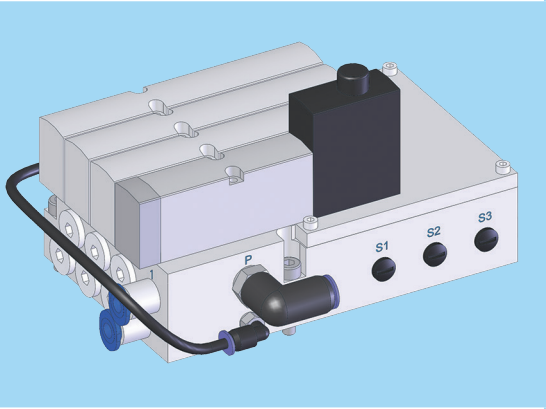
The valve unit can handle up to five standard ISO valves where one of the valves can be configured as a tool changing valve.

Small valve units

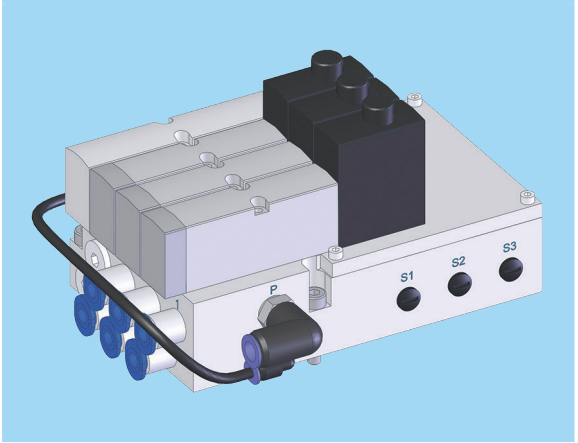
P0010A
Small valve unit without valves



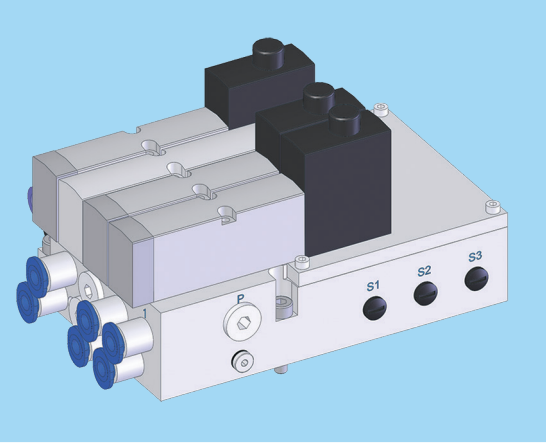
P0012A
Small valve unit with one Festo valve



P0013A
Small valve unit with three Festo valves



P0011A
Small valve unit with three Festo valves with tool changer function



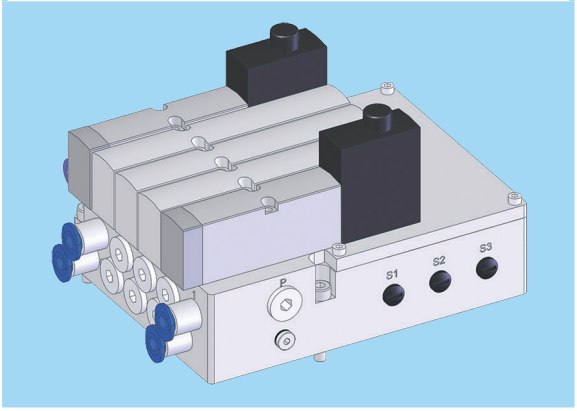
Small valve units

Article number	P0010A	P0012A	P0013A	P0011A
Weight (kg)	0.8	1.0	1.1	1.1
Working temperature	+10°C - +60°C			
	Air ducts			
Tool change valve 5/2 bistable	-	-	-	1
Directional valves 5/2 Bistable	-	1	3	2
Valve size	ISO02 18mm IE (ISO15407-2)			
Number of outlet air ducts	Max 8	2	6	
Number of inlet air ducts	Max 2	1	1	
Max air pressure	1.0 MPa			
Connection, inlet	8 mm hose			
Connection, outlet	6 mm hose			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals, robot side	Max 16 (6 more signals when using option P0017A)			
Dedicated signals, robot side	1 +24V DC			
	1 0V DC			
	8 Valve Control			
Number of signals, tool side	8			
Dedicated signals, tool side	1 +24V DC			
	1 0V DC			
Max current	2 A			
Voltage, valves	+24 V			
Max voltage, other signals	+60 V			
Connection, robot side	1 M16x1.5 holes for cable gland, 1 M20x1.5 hole for cable gland			
Connection, tool side	Female M12-8pole contact			

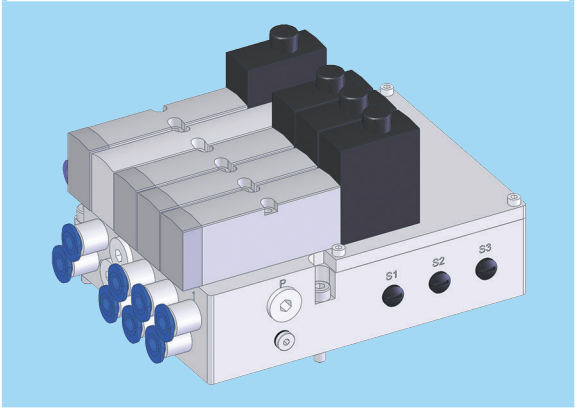
Options	Article number	Description
Cables between ABB robots and small valve unit	P0020	Cable between ABB IRB 140 and small valve unit (12P Souriau - open end)
	P0021	Cable between ABB IRB 1400 and small valve unit (12P Souriau - open end)
	P0022	Cable between ABB IRB 2400 and small valve unit (23P Souriau - open end)
	P0023	Cable between ABB IRB 1600 and small valve unit (26P Compact Souriau - open end)
	P8119	Cable between ABB IRB 2600, 4600/20 and small valve unit (26P Compact Souriau - open end)
	P0022-12	Cable between ABB IRB 4400/L 10 and small valve unit (23P Souriau - open end)

Extended small valve units

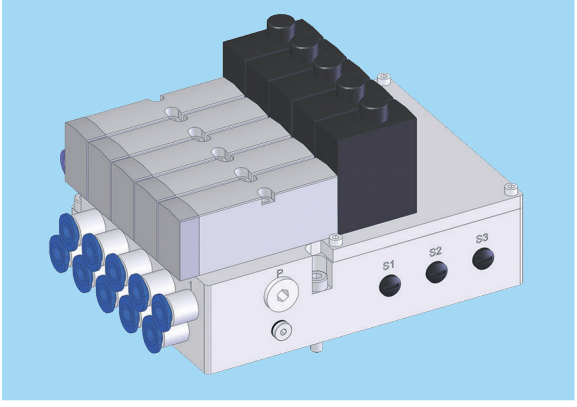
P0027
Extended small valve unit with two Festo valves with tool changer function



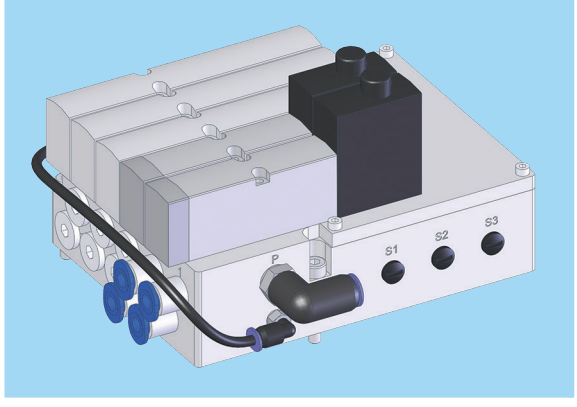
P0028
Extended small valve unit with four Festo valves with tool changer function



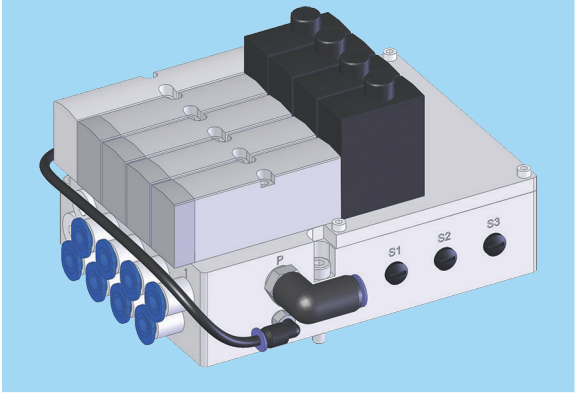
P0029
Extended small valve unit with five Festo valves with tool change function



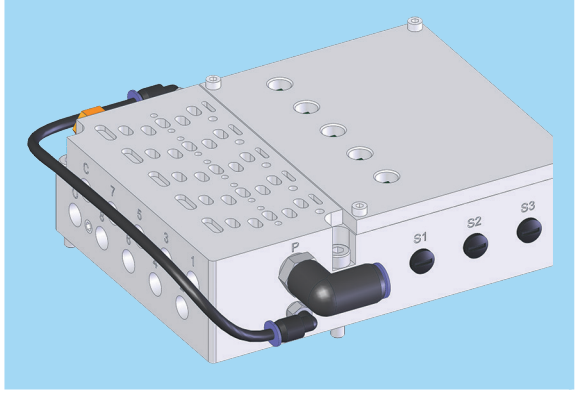
P0035
Extended small valve unit with two Festo valves



P0036
Extended small valve unit with four Festo valves



P0026
Extended small valve unit without valves



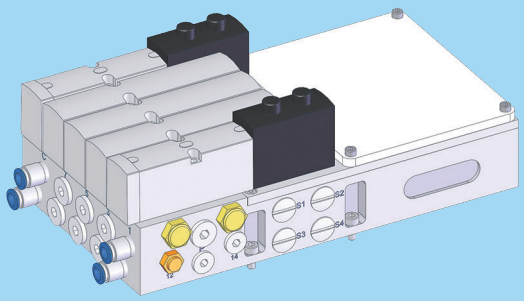
Extended small valve units

Article number	P0027	P0028	P0029	P0035	P0036	P0026
Weight (kg)	1.4	1.5	1.5	1.4	1.5	1.1
Working temperature	+10°C - +60°C					
	Air ducts					
Tool change valve 5/2 bistable	1			-		
Directional valves 5/2 Bistable	1	3	4	2	4	-
Valve size	ISO02 18mm IE (ISO15407-2)					
Number of outlet air ducts	2	6	8	4	8	Max 10
Number of inlet air ducts	1	1	1	1	1	Max 2
Max air pressure	1.0 MPa					
Connection, inlet	8 mm					
Connection, outlet	6 mm					
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content					
	Electrical signals					
Number of signals, robot side	Max23					
Dedicated signals, robot side	1 +24V DC					
	1 0V DC					
	10 Valve Control					
Number of signals, tool side	12					
Dedicated signals, tool side	1 +24V DC					
	1 0V DC					
Max current	2 A					
Voltage, valves	+24 V					
Max voltage, other signals	+66 V					
Connection, robot side	1x M16x1.5 hole for cable gland, 1x M20x1.5					
Connection, tool side	23S Souriau					

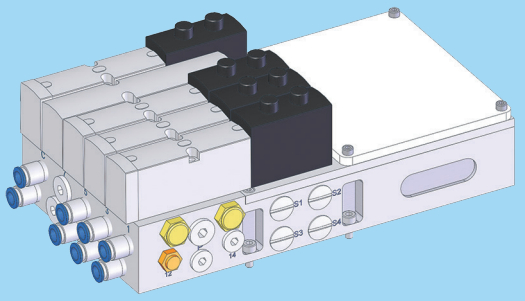
Options	Article number	Description
Cables between ABB Robots and small valve units	P8119-8	Cable between ABB IRB 2600ID R2.CS and valve unit (26P - open end)
	P8119	Cable between ABB IRB 4600 R2.CS and valve unit (26P - open end)
	P8117	Cable between ABB IRB 4600 R2.CP and valve unit (10P - open end)

Large valve units

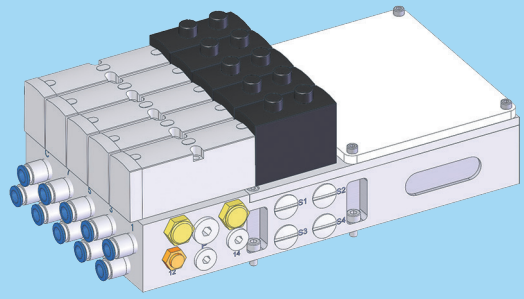
P0044A
Large valve unit with two Festo valves with tool changer function



P0041A
Large valve unit with four Festo valves with tool changer function



P0043A
Large valve unit with five Festo valves with tool changer function



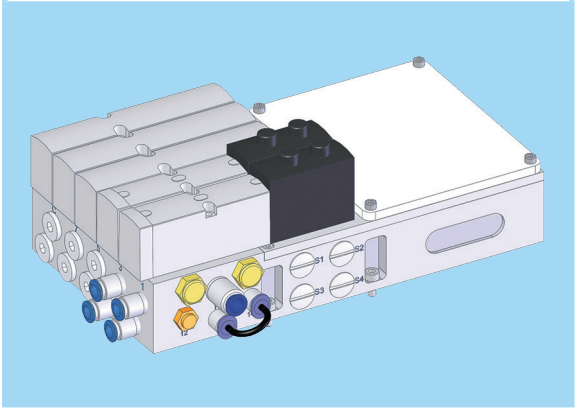
Large valve units

Article number	P0044A	P0041A	P0043A
Weight (kg)	3.5	3.8	4.0
Working temperature	+10°C - +60°C		
	Air ducts		
Tool change valve 2x3/2 NO/NC	1		
Directional valves 5/2 Bistable	1	3	4
Valve size	ISO01 26mm IE (ISO15407-2)		
Number of outlet air duct	4	8	10
Number of inlet air duct	1		
Max air pressure	1.0 MPa		
Connection, inlet	10 mm hose		
Connection, outlet	8 mm hose		
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content		
	Electrical signals		
Number of signals, robot side	Robot specific, Max 39		
Dedicated signals, robot side	1 +24V DC		
	1 0V DC		
	1 Protective Earth		
	10 Valve control		
Number of signals, tool side	Robot specific, Max 21		
Dedicated signals, tool side	1 +24V DC		
	1 0V DC		
	1 Protective Earth		
Max current	5 A		
Voltage, valves	+24 V		
Max voltage, other signals	+60 V		
Connection, robot side	2 M25x1.5 holes for cable gland		
Connection, tool side	23S Souriau		

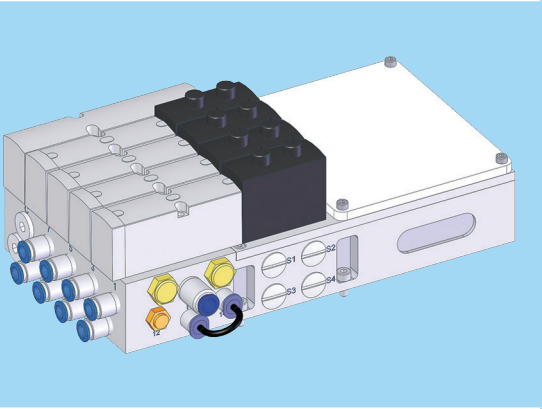
Options	Article number	Description
Options to valve units P0040A - 45A	P0046	Profi Bus control of the valve unit
	P0047	DeviceNet Bus control of the valve unit
	P0048	InterBus control of the valve unit
	P0049	CAN Open BUS control of the valve unit
	P0057	Input signals for bus
	P0056A	Four M12 sensor interface
	P9103	Vacuum saver for vacuum ejector
	P9102	Integrated vacuum ejector with vacuum sensor
	P0070	Pressure switch and regulator, mounted beside the valve unit
Cables between ABB robots and large valve unit	P8119	Cable between ABB IRB 4600 R2.CS and valve unit (26P Compact Souriau - open end)
	P8117	Cable between ABB IRB 4600 R2.CP and valve unit (10P Compact Souriau - open end)
	P0050-12	Cable between ABB IRB 4400 R2.CP and valve unit (23P Souriau - open end)
	P0058-12	Cable between ABB IRB 4400 R2.CP and valve unit (12P Souriau - open end)
	P0098	Cable between ABB IRB 6400 R2.CS and valve unit (23P Souriau - open end)
	P0099	Cable between ABB IRB 6400 R2.CP and valve unit (12P Souriau - open end)
	P0051-10	Cable between ABB IRB 66xx/7600 axis 3 digital I/O (IRC5) and valve unit (4 module Harting - open end)
	P0051-28	Cable between ABB IRB 66xx/7600 axis 2 digital I/O (IRC5) and valve unit (4 module Harting - open end)
	P0052-10	Cable between ABB IRB 66xx/7600 axis 3 bus (IRC5) and valve unit (4 module Harting - open end)
	P0052-28	Cable between ABB IRB 66xx/7600 axis 2 bus (IRC5) and valve unit (4 module Harting - open end)

Large valve units

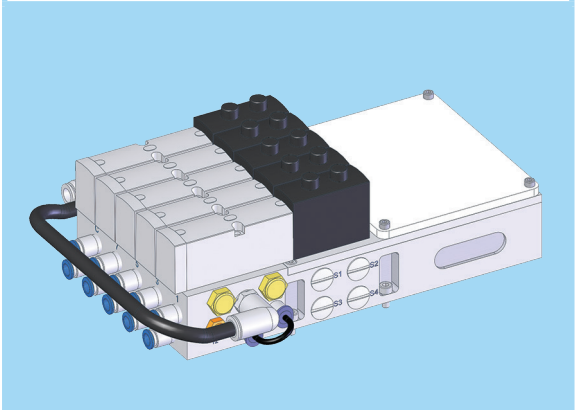
P0045A
Large valve unit with two Festo valves



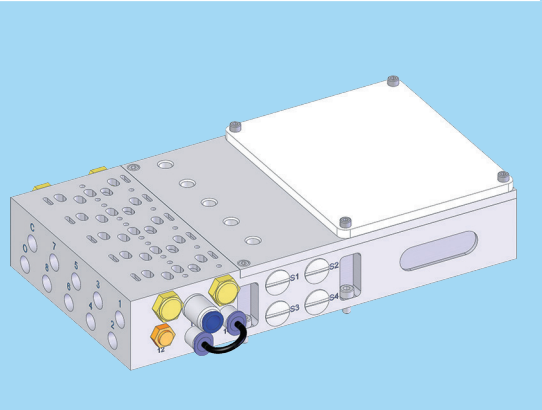
P0042A
Large valve unit with four Festo valves



P0037A
Large valve unit with connection box and 5 Festo valves



P0040A
Large valve unit without valves



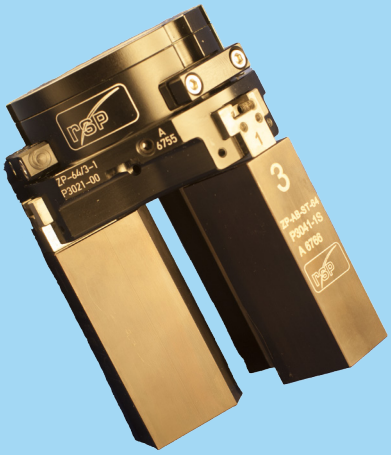
Large valve units

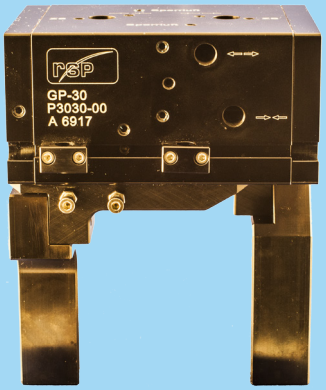
Article number	P0045A	P0042A	P0037A	P0040A
Weight (kg)	3.5	3.8	4.9	2.7
Working temperature	+10°C - +60°C			
	Air ducts			
Tool change valve 2x3/2 NO/NC	-		1	-
Directional valves 5/2 Bistable	2	4	5	-
Valve size	ISO01 26mm IE (ISO15407-2)			
Number of outlet air duct	4	8	10	Max 10
Number of inlet air duct	1		1	Max 2
Max air pressure	1.0 MPa			
Connection, inlet	10 mm hose			
Connection, outlet	8 mm hose			
Air quality	Oil-clean and waterless filtered air, with max 25µm particle content			
	Electrical signals			
Number of signals, robot side	Robot specific, Max 39			
Dedicated signals, robot side	1 +24V DC			
	1 0V DC			
	1 Protective Earth			
	10 Valve control			
Number of signals, tool side	Robot specific, Max 21			
Dedicated signals, tool side	1 +24V DC			
	1 0V DC			
	1 Protective Earth			
Max current	5 A			
Voltage, valves	+24 V			
Max voltage, other signals	+60 V			
Connection, robot side	2 M25x1.5 holes for cable gland			
Connection, tool side	23S Souriau			

Options	Article number	Description
Options to valve units P0040A - 45A	P0046	Profi Bus control of the valve unit
	P0047	DeviceNet Bus control of the valve unit
	P0048	InterBus control of the valve unit
	P0049	CAN Open BUS control of the valve unit
	P0057	Input signals for bus
	P0056A	Four M12 sensor interface
	P9103	Vacuum saver for vacuum ejector
	P9102	Integrated vacuum ejector with vacuum sensor
	P0070	Pressure switch and regulator, mounted beside the valve unit
Cables between ABB robots and large valve unit	P8119	Cable between ABB IRB 4600 R2.CS and valve unit (26P Compact Souriau - open end)
	P8117	Cable between ABB IRB 4600 R2.CP and valve unit (10P Compact Souriau - open end)
	P0050-12	Cable between ABB IRB 4400 R2.CP and valve unit (23P Souriau - open end)
	P0058-12	Cable between ABB IRB 4400 R2.CP and valve unit (12P Souriau - open end)
	P0098	Cable between ABB IRB 6400 R2.CS and valve unit (23P Souriau - open end)
	P0099	Cable between ABB IRB 6400 R2.CP and valve unit (12P Souriau - open end)
	P0051-10	Cable between ABB IRB 66xx/7600 axis 3 digital I/O (IRC5) and valve unit (4 module Harting - open end)
	P0051-28	Cable between ABB IRB 66xx/7600 axis 2 digital I/O (IRC5) and valve unit (4 module Harting - open end)
	P0052-10	Cable between ABB IRB 66xx/7600 axis 3 bus (IRC5) and valve unit (4 module Harting - open end)
	P0052-28	Cable between ABB IRB 66xx/7600 axis 2 bus (IRC5) and valve unit (4 module Harting - open end)









Grippers

Gripper Frame

- Light weight
- Universal hole pattern
- Built in cable guidance
- Rigid design

2-jaw parallel gripper

- Tried and tested T-groove for gripping at max. loads
- Fast and efficient gripping
- Sealed air connection to prevent contamination

3-jaw centric gripper

- Centric gripping of round and angular workpieces
- Universal application due to different types of jaws
- Gripping pressure controlled by change of pressure

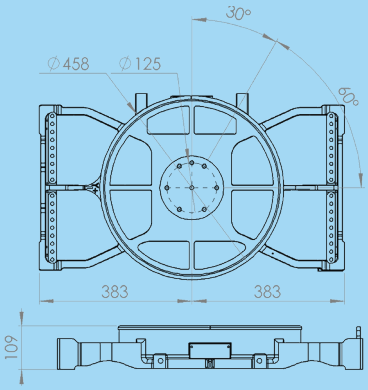
Long stroke gripper

- Suitable for long top jaws
- Optional, separate delivery of a gripping force safety device for exterior tension (GA) and interior tension (GI) of gripper
- Tubeless direct connection for central lubrication and sealing air

SmartGrip

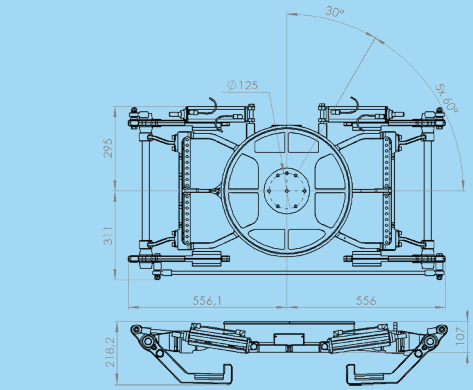
P9003
Gripper frame





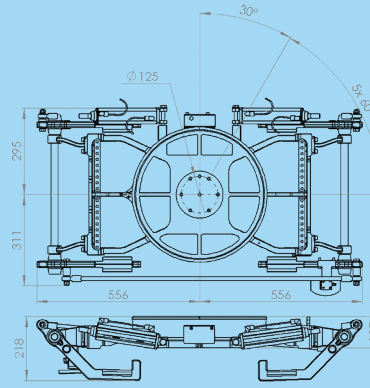
P9004
Gripper frame with pallet hooks





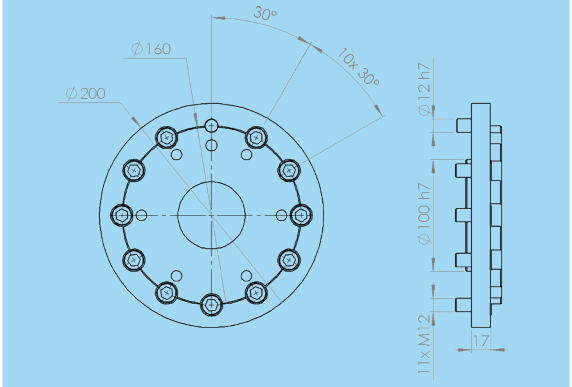
P9005
Gripper frame with pallet hooks and sensors



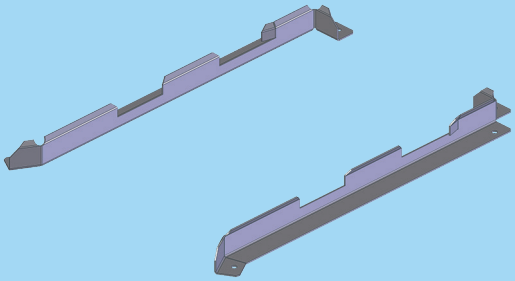


P9006
Adaptation kit for ABB IRB 66xx

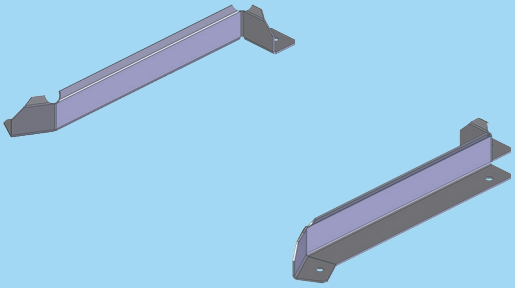




P8310
Pallet stack locator

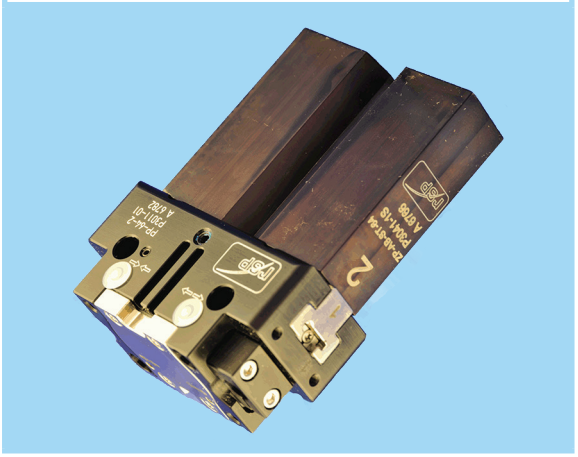


P8311
Pallet stack locator



Other grippers

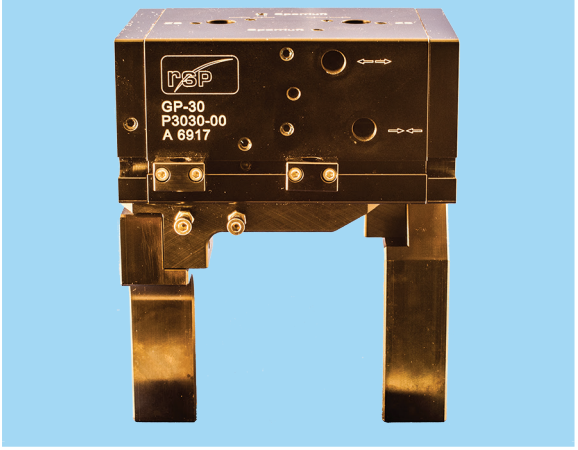
2-jaw parallel gripper
See our gripping catalogue

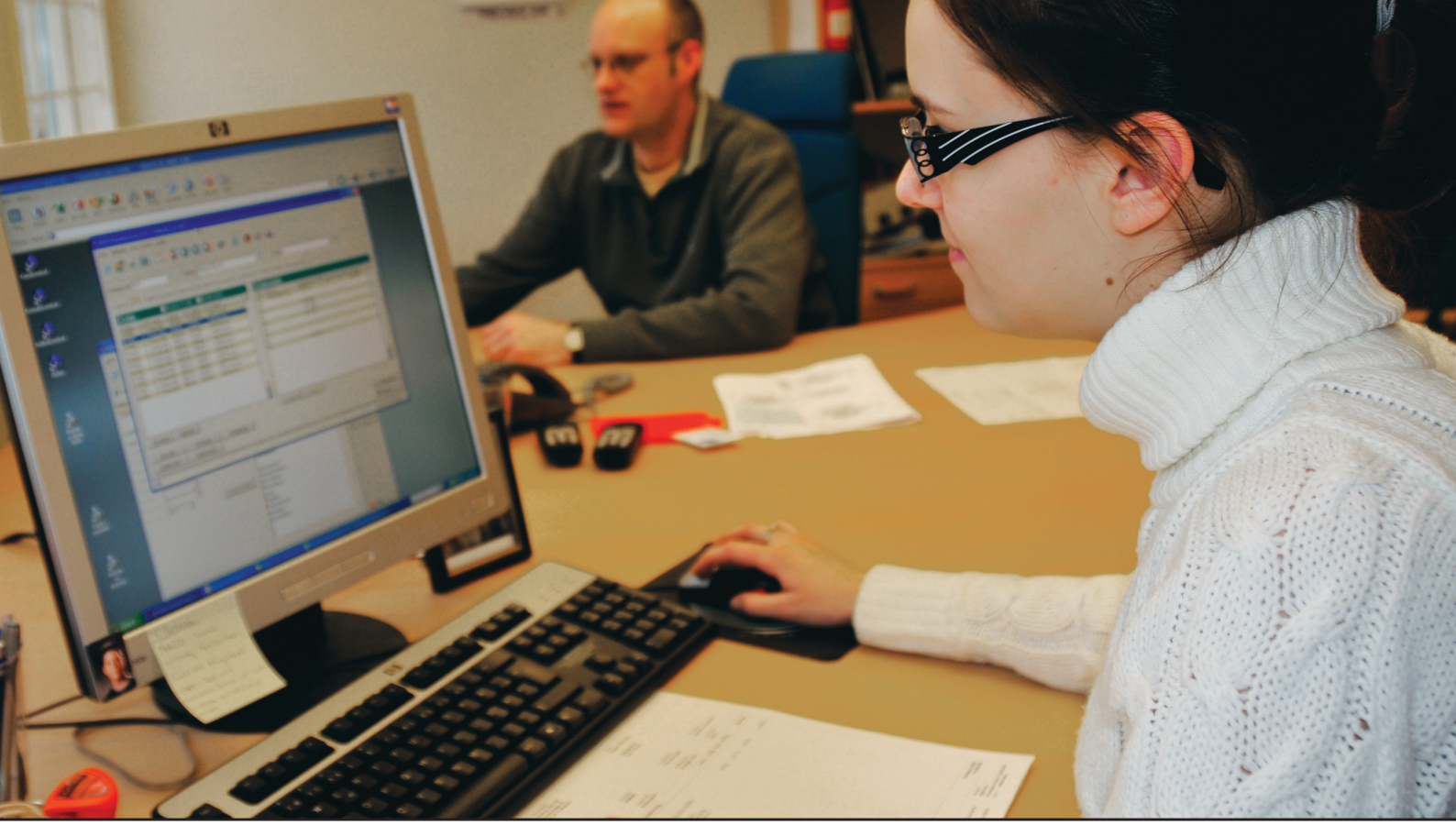


3-jaw centrick gripper
See our gripping catalogue



Long stroke gripper





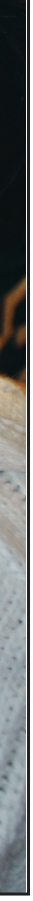
How to order from RSP

Ordering from RSP is easy! There are a few steps you should consider before you place an order:

- The size of the payload and robot when selecting the product
- The Robot model name and arm length, model year if available

If you already are a RSP customer go to step 4

1. Contact person phone number and e-mail address
2. Company name, address, phone/fax number and email
3. Organisation and tax number (VAT inside Europe)
4. Fill out the Part number, description, price and amount in your order form
5. Fill out the PO number, date, required delivery date and delivery address if it's different
6. If available, state the quotation number. Otherwise the current price list is used
7. Fax the order to +46 21 81 66 01 or e-mail to order@robsyspro.com



Dressing robots worldwide

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Spain Eurotech System, S.L. Phone: +34 649 983 301 Email: t.vidal@eurotechsys.com	**Thailand** I Robot Phone: +66 2732 0082 Email: nikaziz@irobot.co.th	**Turkey** iROB Ileri Robot Otomasyon ve Bilgi Teknolojileri Phone: +90 224 443 6343 Email: yalcin.eroglu@irob.com.tr
UK Billington Group Phone: +44 1709 543837 Email: warren@billington-group.co.uk	**USA - Canada** Essential Robot Products, Inc. Phone: +1 574 271 7895 Email: josh.haag@robot-pros.com	

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