



END-OF-ARM-TOOLING

Product catalog

FIPA

WE CAN **MOVE** EVERYTHING.

With know-how, expertise, flexibility and professional project management, we enable you to the best solution for your handling task, in the vacuum, gripping and lifting technology.



Box

Efficient handling and transportation of cardboard packaging in storage and shipping areas.



Injection molded parts

Low-impact removal of hot plastic parts, cutting of sprues.



Sacks

Ergonomic, safe handling and picking of sacks.



Bags/Pouches

Handling of unstable flowpacks and bags with different textures.



Sheet metal

Fast cycling times and high process reliability for sheet metal transfer, body car handling and machine loading.



Wood

Handling of wooden elements with different surfaces, machine loading.



Glass/bottles

Impression-free, safe handling and assembly of panes, glass and window elements.



Paper/foils

Precise and reliable handling without soaking in the product.



Drums

Safe handling of heavy drums, buckets and canisters.



Food

Flexible and FDA-compliant handling for direct contact with food.



Pallets

Easy and safe handling of pallets for a smooth material flow.



Electronic parts

Clean and flexible handling of very small components with maximum precision.

AUTOMATION SOLUTIONS ACCORDING TO YOUR NEEDS

We are your global partner for all requirements in the industrial automation industry. Thanks to our many years of experience, reliability and flexibility, we always find the right solution to maximize your process reliability.

Production and logistics mean movement. In most industries, products are picked up, held, deposited, turned, turned over, positioned and lifted.

Vacuum technology can be used to move workpieces safely and quickly, but above all to handle them gently and without causing damage. We have a comprehensive range of innovative and high-quality products for all these applications. With our customer-specific solutions, you can optimize your production processes while supporting your employees in their daily work.

Are you looking for an automation approach and want to improve your processes?

We are more than just a supplier of components. With our expertise, application know-how and professional project management, we provide the optimum solution for your handling task in vacuum, gripping and lifting technology.

Do you want to increase efficiency and productivity at the same time as working ergonomically?

We work closely with our customers and therefore always find an answer - from standard solutions to customized designs the gripper construction.

Our goal: to optimize processes in production and logistics with individual components and customized solutions.

Personal contact, fast response times and expertise are our path to successful projects. We are active for you worldwide through our large partner network.

We keep moving for **you** so that
production and logistics run reliably and
smoothly.

THE EXTENSIVE FIPA RANGE

When it comes to the reliable handling of workpieces using vacuum technology or pneumatics we are at your disposal as a competent partner. Whether you need gripper components such as **sprue grippers**, **gripper fingers**, **quick-change systems**, **air nippers** or **complete gripping systems** you need: FIPA's portfolio has it all. We carry all products relating to gripper technology in this catalog.



Are you looking for the right vacuum cups?

In the pick and place field, all vacuum cups have the same task: lifting parts and moving them without causing damage. Different suction cups are used depending on the shape, size and material of the goods to be handled. We have an extensive range of flat, bellows and oval suction cups, as well as matching holders and spring levelers, which we present in our vacuum cups catalog.



Are you looking for the right vacuum component?

The highest level of professionalism in generating, regulating, controlling and vacuum – this is guaranteed by the various vacuum components from FIPA. In the catalog for vacuum components you will find everything from suitable vacuum generation, vacuum filters, hoses and connecting elements.



Do you want to make lifting heavy loads easier?

Take the strain from your employees with the ideal tube lifter for your application. Our goal is to make your material flow as efficient and ergonomic as possible.

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Quick-change systems | S Series

Quick-change systems – square, robot side, without fittings

Quick-change systems – square, robot side, without fittings



GR05.041

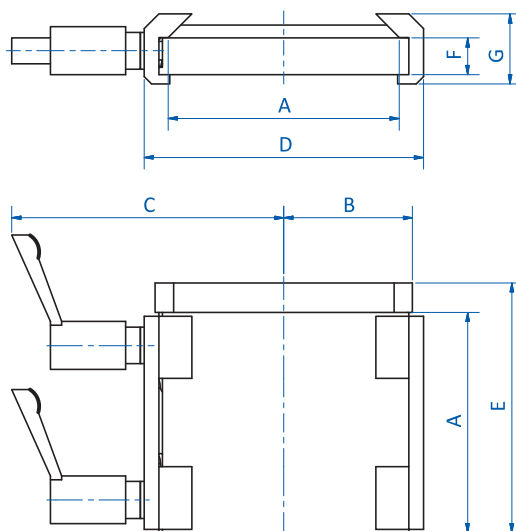
Product notes

- > Manual interface between robot and gripper system
- > Minimized down time due to fast gripper change
- > Available in four sizes
- > Clamping levers included in scope of delivery
- > Base plates and pneumatic connections not included in scope of delivery

Technical data

Item no.	Industry standard code	Lifting force [N]	Length [mm]	Weight [g]	Accessories
GR05.041	GR-0	50	60	315	Gripper mounting plate: GR05.042 Quick-connection coupler: KIT1-GR05.041
GR05.021	GR-1	100	100	570	Gripper mounting plate: GR05.022 Quick-connection coupler: KIT1-GR05.021
GR05.031	GR-2	200	160	1,970	Gripper mounting plate: GR05.032 Gripper mounting plate: GR05.063 Gripper mounting plate: GR-XL05.032 Quick-connection coupler: KIT1-GR05.031
GR05.051	GR-3	400	250	4,520	Gripper mounting plate: GR05.052 Gripper mounting plate: GR05.070 Gripper mounting plate: GR-XL05.052 Quick-connection coupler: KIT1-GR05.031

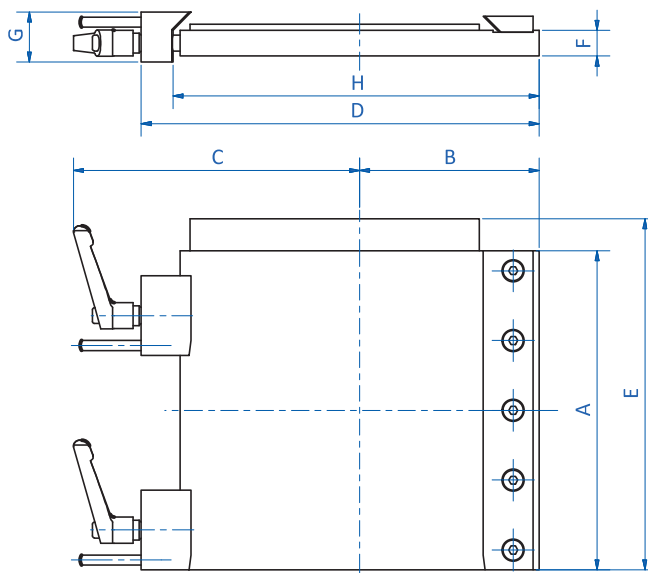
Dimensions



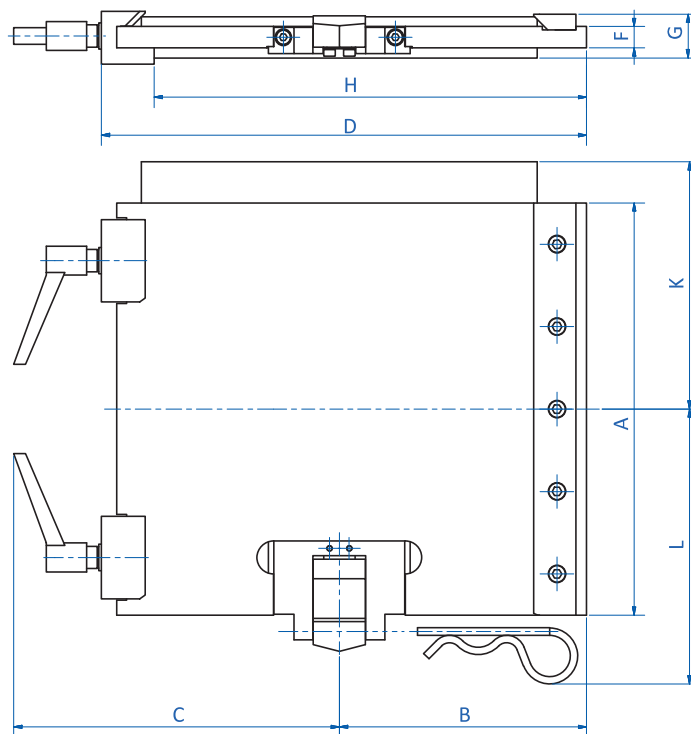
GR05.041 | GR05.021



Dimensions



GR05.031



GR05.051

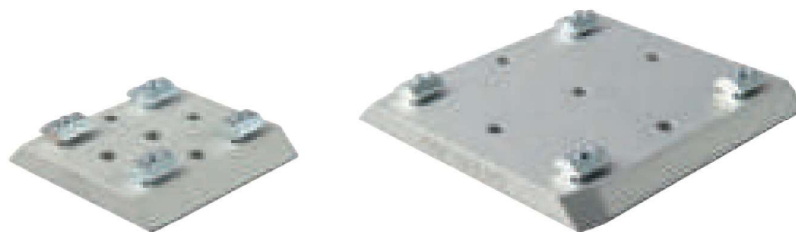
Item no.	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	K [mm]	L [mm]
GR05.041	60	38	74	76	68	10	19	62	--	--
GR05.021	100	57.5	91.5	115	110	10	20	101	--	--
GR05.031	160	90	143.5	198	176	13	25	183	--	--
GR05.051	250	150	197.5	290	--	13	32	259	150	167



Quick-change systems | S Series

Gripper mounting plates

Gripper mounting plates



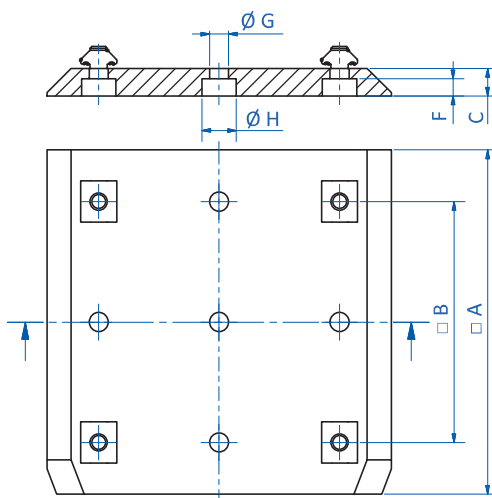
Product notes

- > Mounting plate for profile based grippers
- > Includes screws and slot nuts

Technical data

Item no.	Industry standard code	Suitable for extrusion system	Length [mm]	Weight [g]	Suitable robot adapter plates
GR05.042	GR-0	SLine / MLine / JLine (Universal)	60	84	GR05.041
GR05.022	GR-1	SLine / MLine / JLine (Universal)	100	230	GR05.021
GR05.032	GR-2	SLine	160	635	GR05.031
GR05.052	GR-3	SLine	250	1,650	GR05.051
GR05.063	GR-2	MLine / JLine	160	690	GR05.031
GR05.070	GR-3	MLine / JLine	250	1,670	GR05.051
GR-XL05.032	GR-2	XLine	160	752	GR05.031
GR-XL05.052	GR-3	XLine	250	1,784	GR05.051

Dimensions





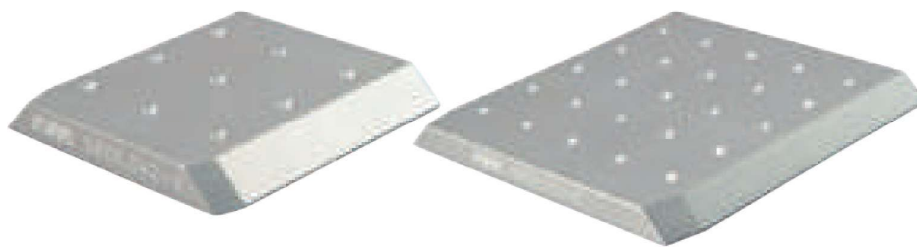
Item no.	□ A [mm]	□ B [mm]	C [mm]	F [mm]	Ø G [mm]	Ø H [mm]
GR05.042	60	35	8	5	5.5	10
GR05.022	100	70	8	5	5.5	10
GR05.032	160	120	10	4.5	5.5	10
GR05.052	250	200	10	7	5.5	10
GR05.063	160	120	10	4.9	6.4	11
GR05.070	250	200	10	4.9	6.4	11
GR-XL05.032	160	120	10	6.5	8.5	14
GR-XL05.052	250	200	10	6.5	8.5	14



Quick-change systems | S Series

Gripper mounting plates for customisation

Gripper mounting plates for customisation



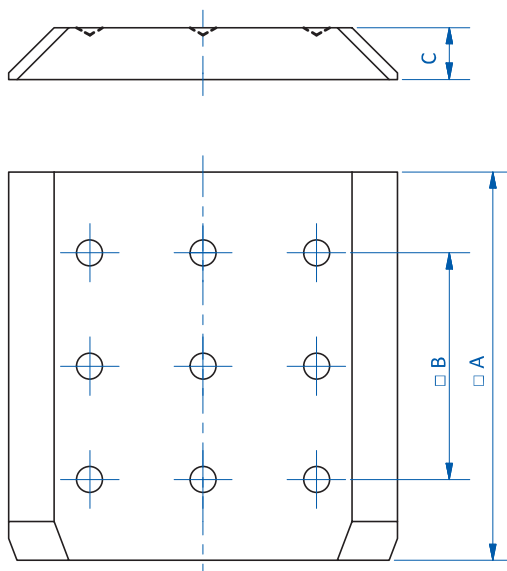
Product notes

> Punch-marked for easy drilling

Technical data

Item no.	Industry standard code	Length [mm]	Weight [g]	Suitable robot adapter plates
GR05.042-X	GR-0	60	84	GR05.041
GR05.022-X	GR-1	100	208	GR05.021
GR05.032-X	GR-2	160	635	GR05.031
GR05.052-X	GR-3	250	1,650	GR05.051

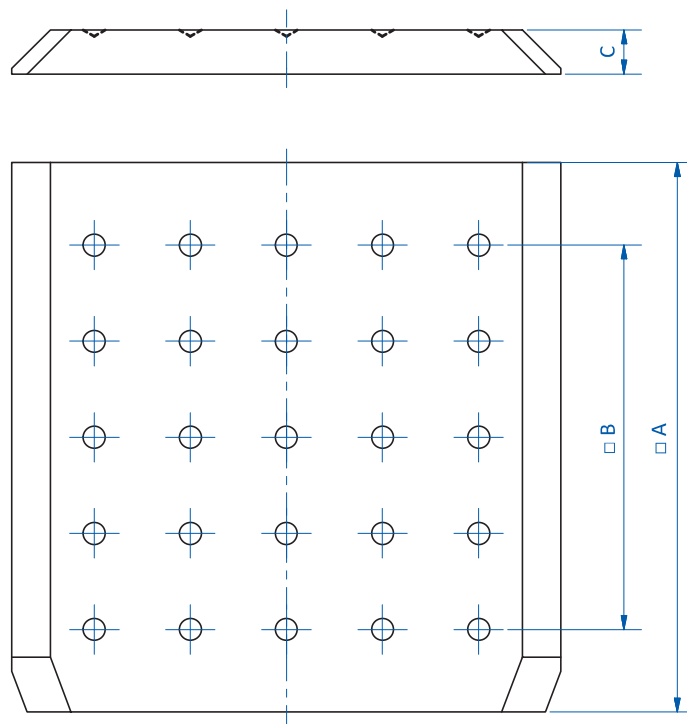
Dimensions



GR05.042-X



Dimensions



GR05.022-X | GR05.032-X

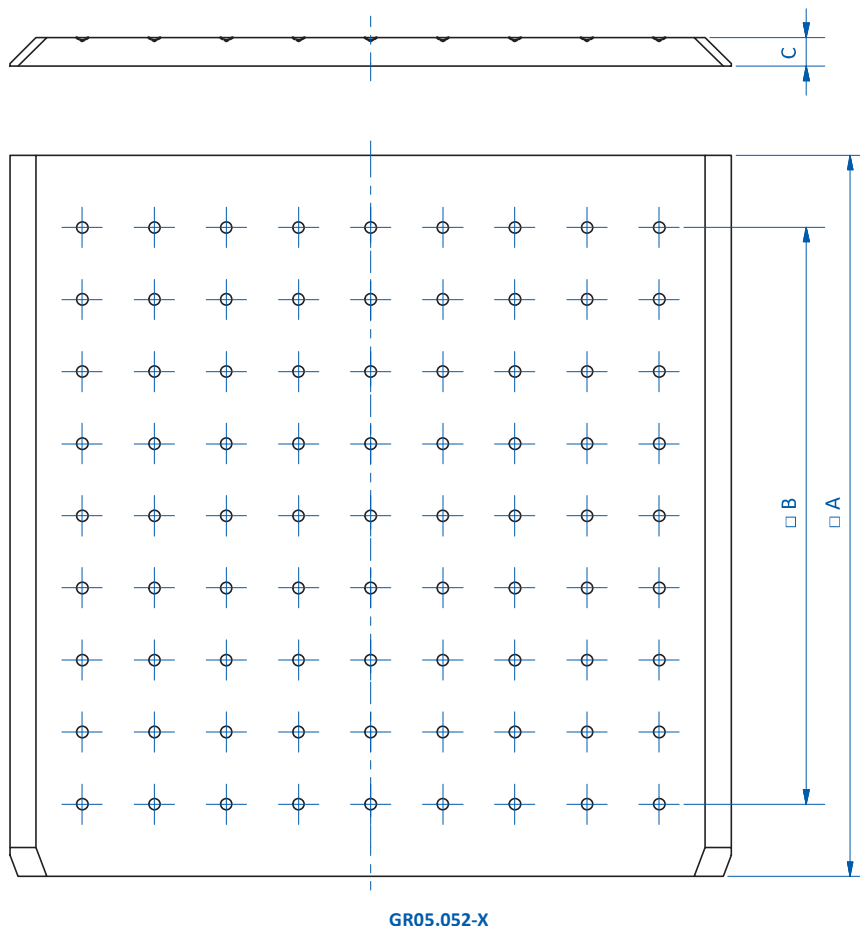
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Quick-change systems | S Series

Gripper mounting plates for customisation

Dimensions



GR05.052-X

Item no.	□ A [mm]	□ B [mm]	C [mm]
GR05.042-X	60	35	8
GR05.022-X	100	70	8
GR05.032-X	160	120	10
GR05.052-X	250	200	10



Gripper mounting plates – spring loaded



Gripper mounting plate with quick-change system GR05.021

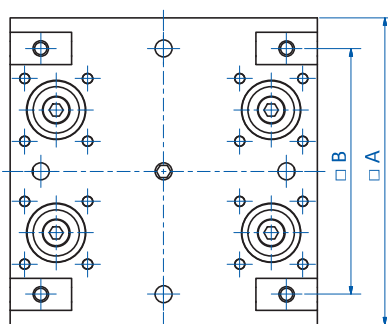
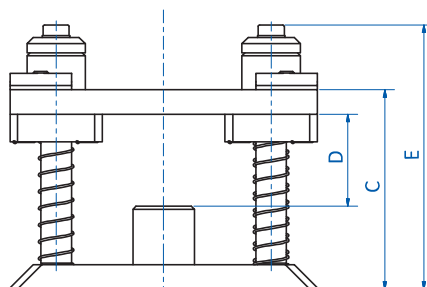
Product notes

- > Base plate for compensating ejection stroke of molding machine
- > High-quality slide bearings ensure accurate guidance
- > A second set of springs with higher spring rate included in scope of delivery
- > Slot nuts and mounting screws included in scope of delivery

Technical data

Item no.	Industry standard code	Suitable for extrusion system	Stroke [mm]	Spring stiffness (already built in) [N/mm]	Spring stiffness (alternatively) [N/mm]	Weight [g]	Suitable robot adapter plates
GR05.023	GR-1	SLine	30	0.143	0.349	690	GR05.021
GR05.024	GR-1	SLine / MLine	30	0.143	0.349	690	GR05.021

Dimensions



Item no.	□ A [mm]	□ B [mm]	C [mm]	D [mm]	E [mm]
GR05.023	100	80	65	30	86
GR05.024	110	85	65	30	86



Quick-change systems | S Series

Adapter for S Series quick change systems

Adapter for S Series quick change systems



Product notes

- > Mount grippers with smaller dovetail plate to a larger robot side
- > No tools required

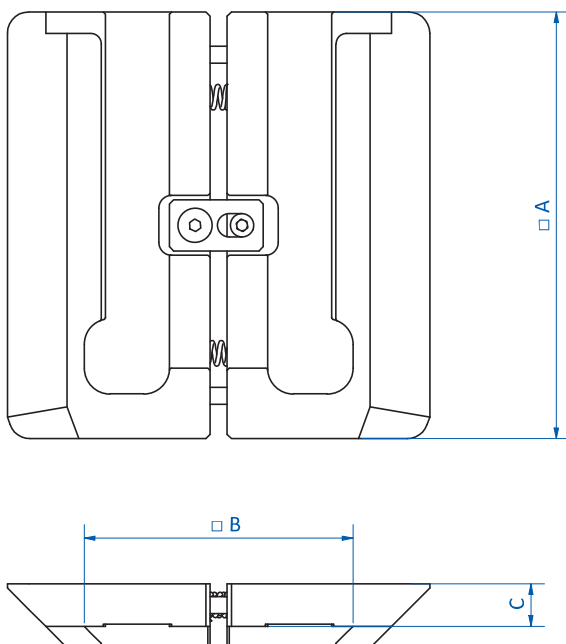
Technical data

Item no.	Industry standard code	Weight [g]	Accessories
GR05.206	GR-1 => GR-0	256	Gripper mounting plate: GR05.042 Robot adapter plate: GR05.021
GR05.207	GR-2 => GR-1	715	Gripper mounting plate: GR05.022 Robot adapter plate: GR05.031
GR05.209	GR-3 => GR-2	2,465	Gripper mounting plate: GR05.032 Gripper mounting plate: GR05.063 Robot adapter plate: GR05.051

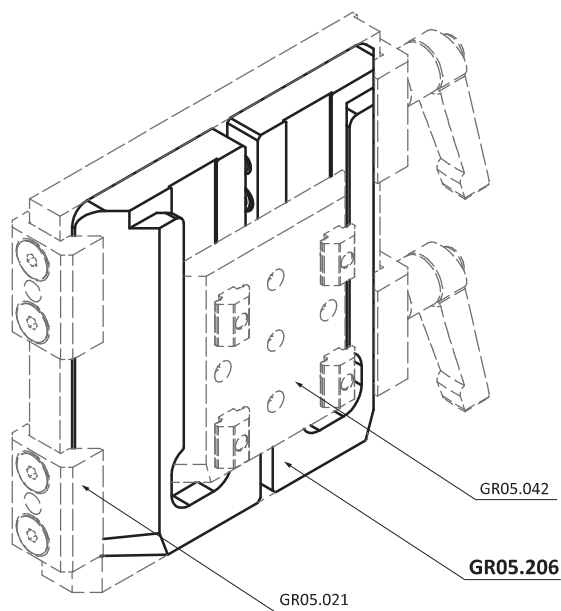
Dimensions

A [mm]	B [mm]	C [mm]
100	60	10
160	100	9
250	160	13

Dimensions



Application example





Wall brackets for square quick-change plates



Wall bracket with quick-change plate

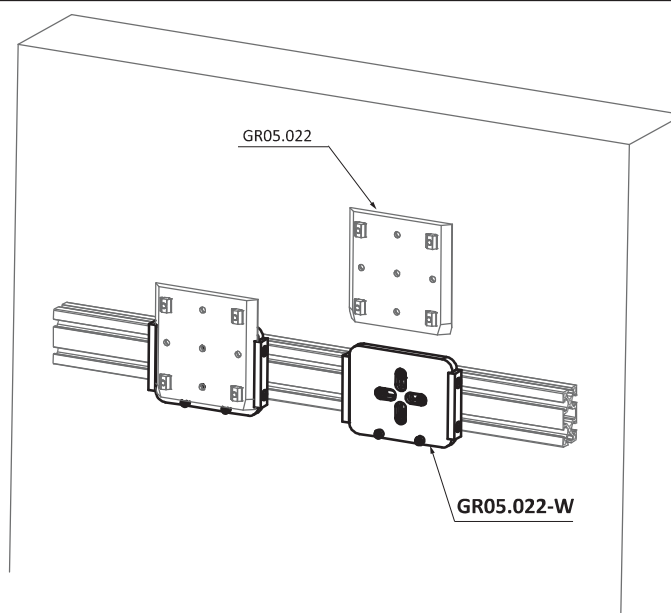
Product notes

- > Efficient storage of gripping systems
- > Fixing kit included in delivery

Technical data

Item no.	Weight [g]	Compatible gripper mounting plate
GR05.042-W	145	GR05.042
GR05.022-W	212	GR05.022
GR05.032-W	385	GR05.032
GR05.052-W	1,218	GR05.052

Application example



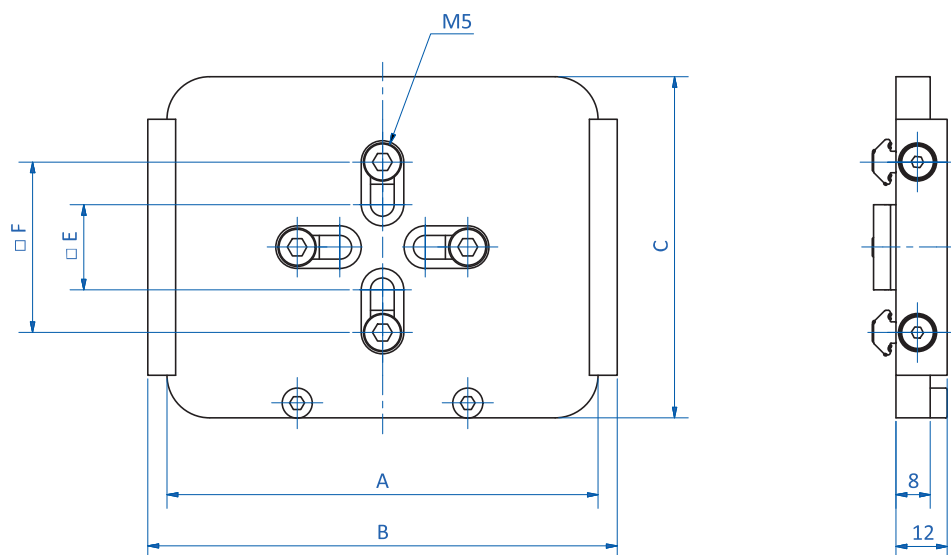
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Quick-change systems | Accessories – S Series

Wall brackets for square quick-change plates

Dimensions



Item no.	A [mm]	B [mm]	C [mm]	E [mm]	F [mm]
GR05.042-W	60	70	80	20	40
GR05.022-W	101	110	80	20	40
GR05.032-W	161	170	100	20	40
GR05.052-W	251	260	200	60	120



Round quick-changers Ø 50 mm, 6 air inlets – robot side



SR50-A-SL-MV with locking indication SAFE-LOCK

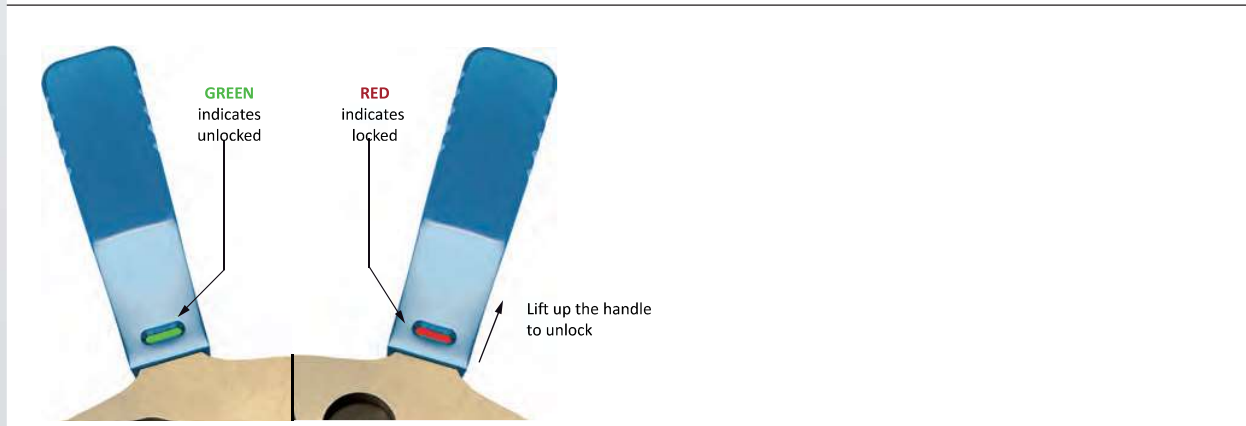
Product notes

- > Manual interface between robot and gripper system
- > Air connections always correctly aligned
- > Body made of anodized aluminum alloy
- > Model MV comes with micro valves for automatic air or vacuum lock off during decoupling
- > Model SL with secure SAFE-LOCK ensures maximum functional reliability and optical locking indication (red/green)

Technical data

Item no.	SR50-A	SR50-A-MV	SR50-A-SL	SR50-A-SL-MV
Lifting force [N]	200	200	200	200
Number of pneumatic connections	6xM5	6xM5	6xM5	6xM5
Working pressure [bar (psi)]	0 - 6 (0 - 87)	0 - 6 (0 - 87)	0 - 6 (0 - 87)	0 - 6 (0 - 87)
Max. torque [Nm]	50	50	50	50
Max. bending moment [Nm]	30	30	30	30
Repeat accuracy [mm]	+/- 0.025	+/- 0.025	+/- 0.025	+/- 0.025
Micro valves	without	integrated	without	integrated
Snap-on	without	without	SAFE-LOCK for secure locking	SAFE-LOCK for secure locking
Weight [g]	68	72	70	74
Suitable electrical connectors	20.537	20.537	20.537	20.537

Display of optical locking indication SAFE-LOCK



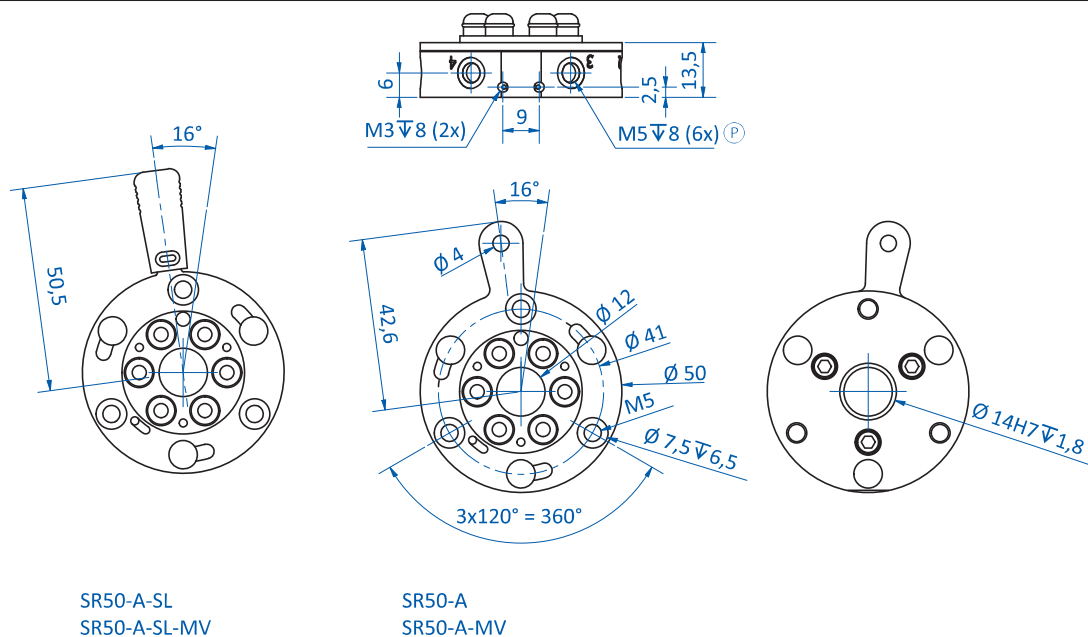
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Quick-change systems | SR Series

Round quick-changers $\varnothing 50$ mm, 6 air inlets – robot side

Dimensions





Round quick-changers Ø 50 mm, 6 air inlets – gripper side



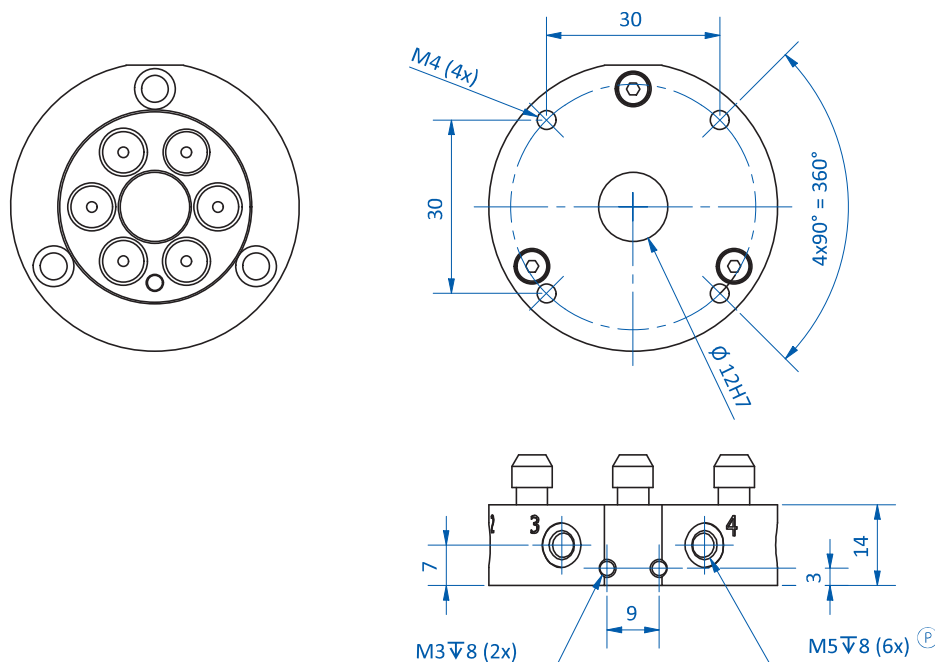
Product notes

- > Manual interface between robot and gripper system
- > Air connections always correctly aligned
- > Body made of anodized aluminum alloy

Technical data

Item no.	SR50-B
Lifting force [N]	200
Number of pneumatic connections	6xM5
Working pressure [bar (psi)]	0 - 6 (0 - 87)
Max. torque [Nm]	50
Max. bending moment [Nm]	30
Repeat accuracy [mm]	+/- 0.025
Weight [g]	69
Suitable electrical connectors	20.538

Dimensions



Ⓟ = Pneumatic connection



Quick-change systems | SR Series

Round quick-changers Ø 90 mm, 8 air inlets – robot side

Round quick-changers Ø 90 mm, 8 air inlets – robot side



SR90-A-SL-2 with locking indication SAFE-LOCK

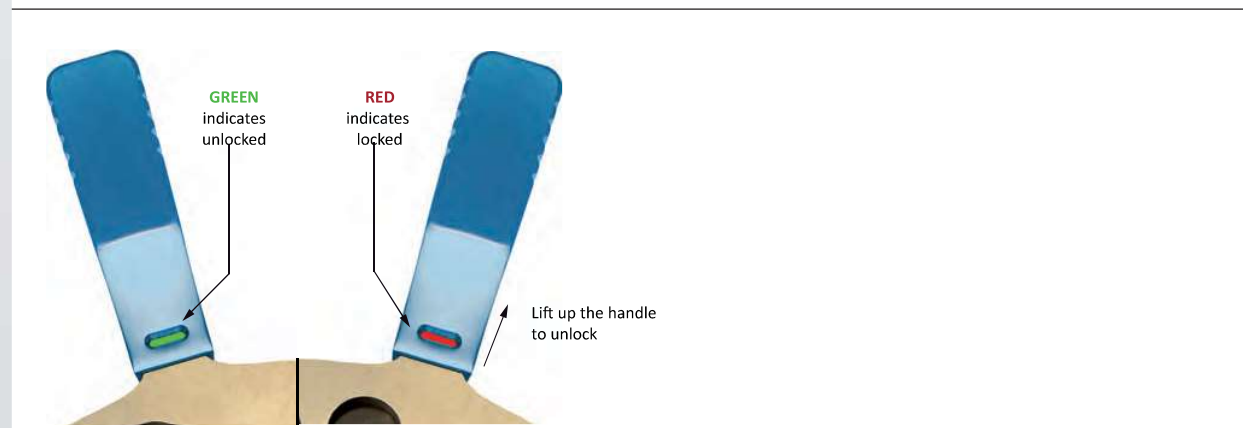
Product notes

- > Manual interface between robot and gripper system
- > Air connections always correctly aligned
- > Body made of anodized aluminum alloy
- > Model MV comes with micro valves for automatic air or vacuum lock off during decoupling
- > Model SL with secure SAFE-LOCK ensures maximum functional reliability and optical locking indication (red/green)

Technical data

Item no.	SR90-A-2	SR90-A-MV-2	SR90-A-SL-2	SR90-A-SL-MV-2
Lifting force [N]	400	400	400	400
Number of pneumatic connections	8xG1/8	8xG1/8	8xG1/8	8xG1/8
Working pressure [bar (psi)]	0 - 6 (0 - 87)	0 - 6 (0 - 87)	0 - 6 (0 - 87)	0 - 6 (0 - 87)
Max. torque [Nm]	100	100	100	100
Max. bending moment [Nm]	60	60	60	60
Repeat accuracy [mm]	+/- 0.025	+/- 0.025	+/- 0.025	+/- 0.025
Micro valves	without	integrated	without	integrated
Snap-on	without	without	SAFE-LOCK for secure locking	SAFE-LOCK for secure locking
Weight [g]	313	329	331	343
Suitable electrical connectors	20.535	20.535	20.535	20.535

Display of optical locking indication SAFE-LOCK





Quick-change systems | SR Series

Round quick-changers Ø 90 mm, 8 air inlets – gripper side

Round quick-changers Ø 90 mm, 8 air inlets – gripper side



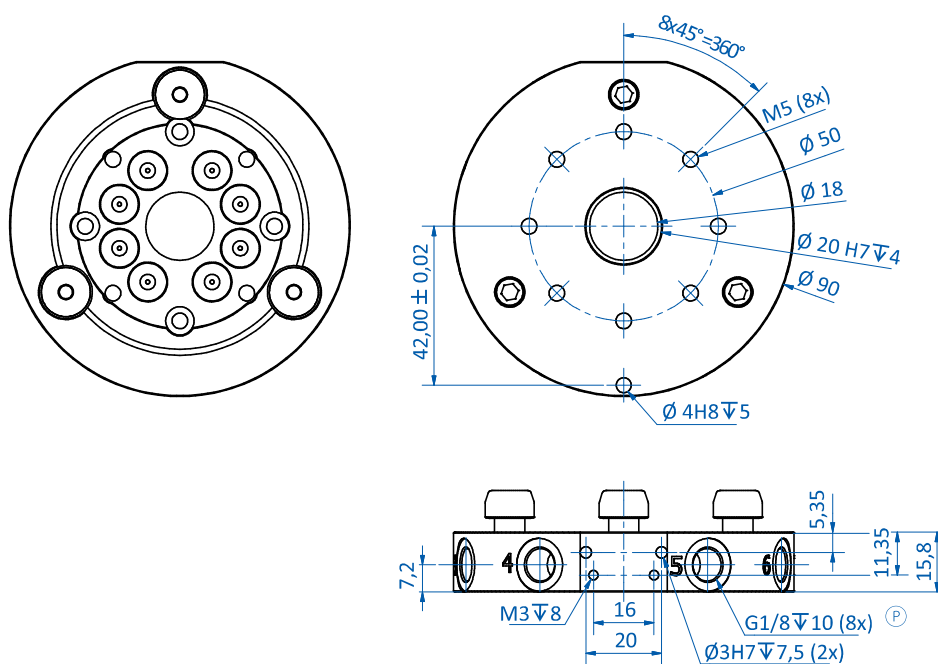
Product notes

- > Manual interface between robot and gripper system
- > Air connections always correctly aligned
- > Body made of anodized aluminum alloy

Technical data

Item no.	SR90-B-2
Lifting force [N]	400
Number of pneumatic connections	8xG1/8
Working pressure [bar (psi)]	0 - 6 (0 - 87)
Max. torque [Nm]	100
Max. bending moment [Nm]	60
Repeat accuracy [mm]	+/- 0.025
Weight [g]	220
Suitable electrical connectors	20.536

Dimensions



(P) = Pneumatic connection



Round quick-changers Ø 150 mm, 10 air inlets – robot side



SR150-A-2

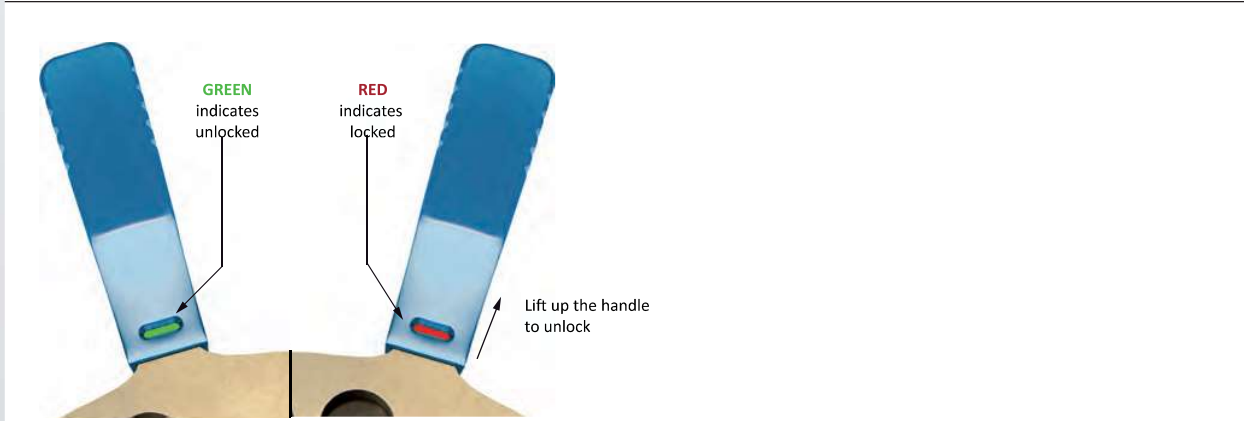
Product notes

- > Manual interface between robot and gripper system
- > Air connections always correctly aligned
- > Body made of anodized aluminum alloy
- > Model SL with secure SAFE-LOCK ensures maximum functional reliability and optical locking indication (red/green)

Technical data

Item no.	SR150-A-2	SR150-A-SL-2
Lifting force [N]	1,000	1,000
Number of pneumatic connections	10xG1/4	10xG1/4
Working pressure [bar (psi)]	0 - 6 (0 - 87)	0 - 6 (0 - 87)
Max. torque [Nm]	250	250
Max. bending moment [Nm]	100	100
Repeat accuracy [mm]	+/- 0.025	+/- 0.025
Micro valves	without	without
Snap-on	without	SAFE-LOCK for secure locking
Weight [g]	1,192	1,206
Suitable electrical connectors	20.535	20.535

Display of optical locking indication SAFE-LOCK



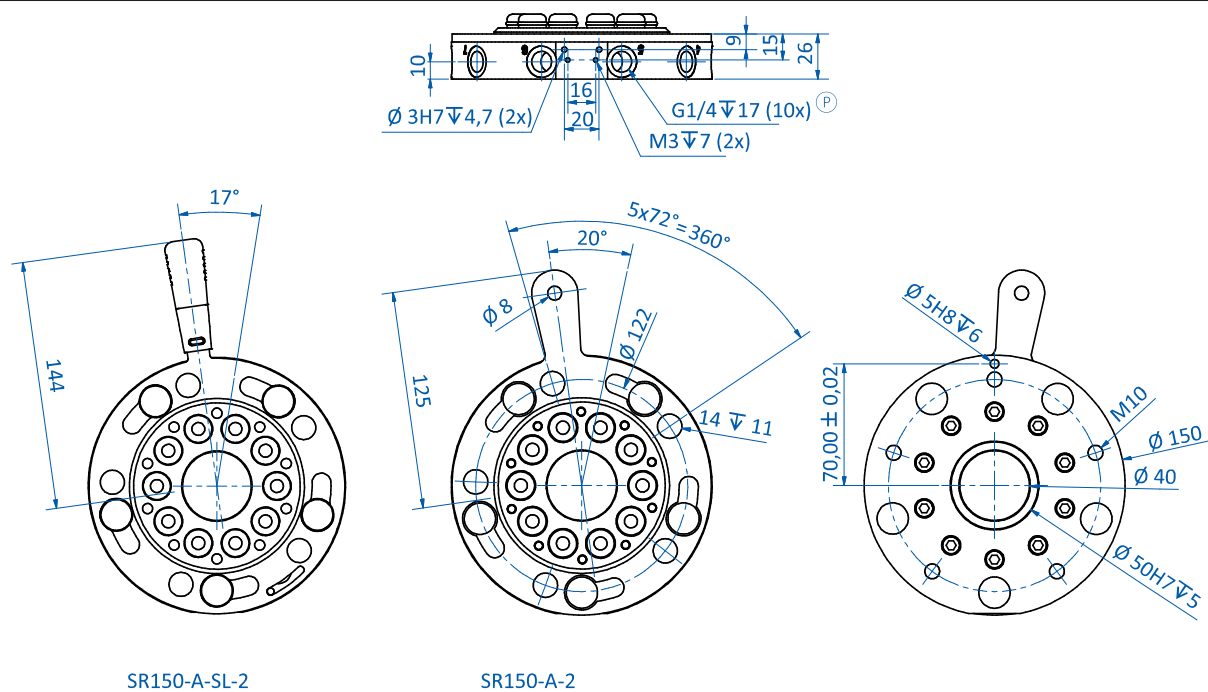
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Quick-change systems | SR Series

Round quick-changers Ø 150 mm, 10 air inlets – robot side

Dimensions



[Ⓟ] = Pneumatic connection



Round quick-changers Ø 150 mm, 10 air inlets – gripper side



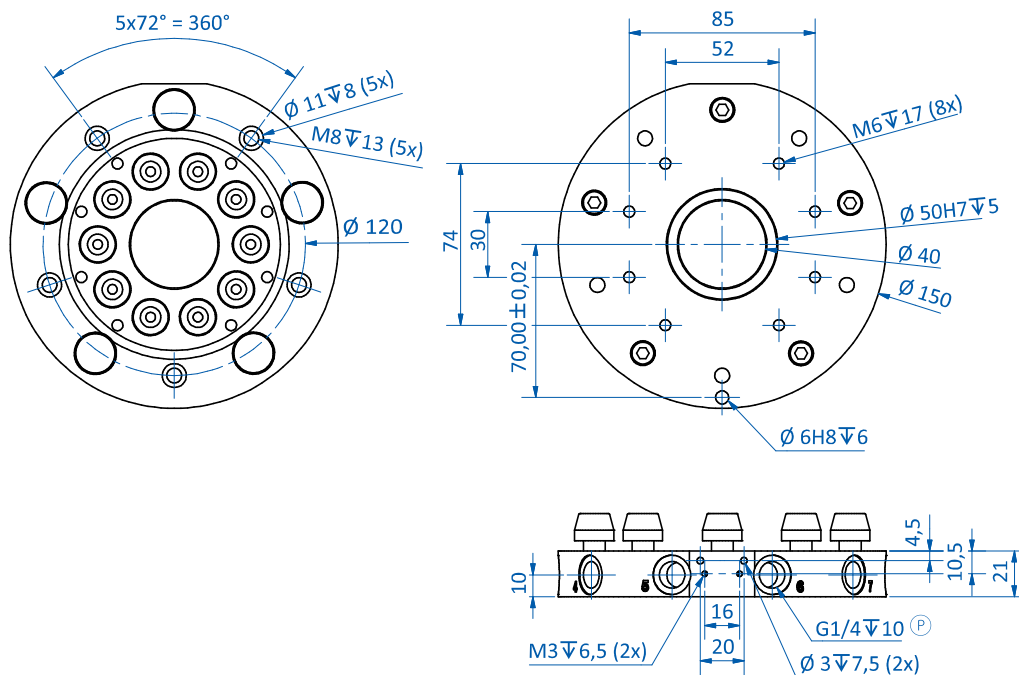
Product notes

- > Manual interface between robot and gripper system
- > Air connections always correctly aligned
- > Body made of anodized aluminum alloy

Technical data

Item no.	SR150-B-2
Lifting force [N]	1,000
Number of pneumatic connections	10xG1/8
Working pressure [bar (psi)]	0 - 6 (0 - 87)
Max. torque [Nm]	250
Max. bending moment [Nm]	100
Repeat accuracy [mm]	+/- 0.025
Weight [g]	850
Suitable electrical connectors	20.536

Dimensions



Ⓟ = Pneumatic connection



Quick-change systems | Accessories – SR Series

Adapter plates for round quick-changers – gripper side

Adapter plates for round quick-changers – gripper side



SR90-C

Product notes

- > Adapter plates for mounting SLine or MLine extrusions to SR Series round quick-changers
- > Slot nuts and mounting screws included in scope of delivery

Technical data

Item no.	Weight [g]	Suitable quick-change systems
SR50-C	107	SR50-B
SR90-C	117	SR90-B-2
SR150-C	227	SR150-B-2

Robot adapter plates SR Series



SR50-C



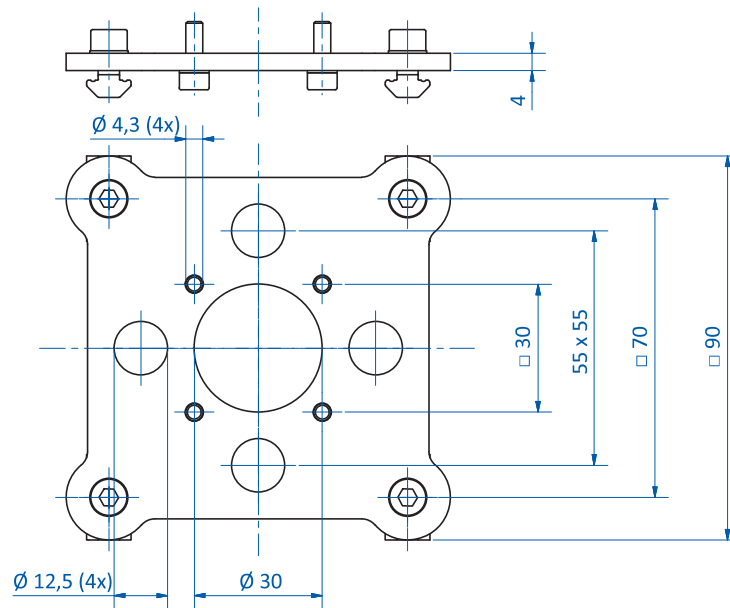
SR90-C



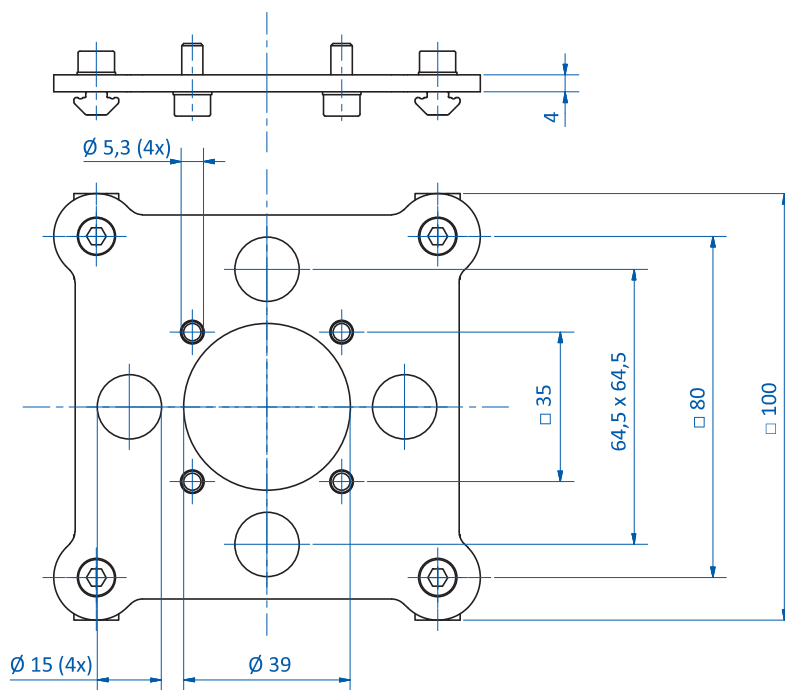
SR150-C



Dimensions



SR50-C



SR90-C

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Dimensions





Wall bracket for gripper systems with round base plate



Application example with quick-changer

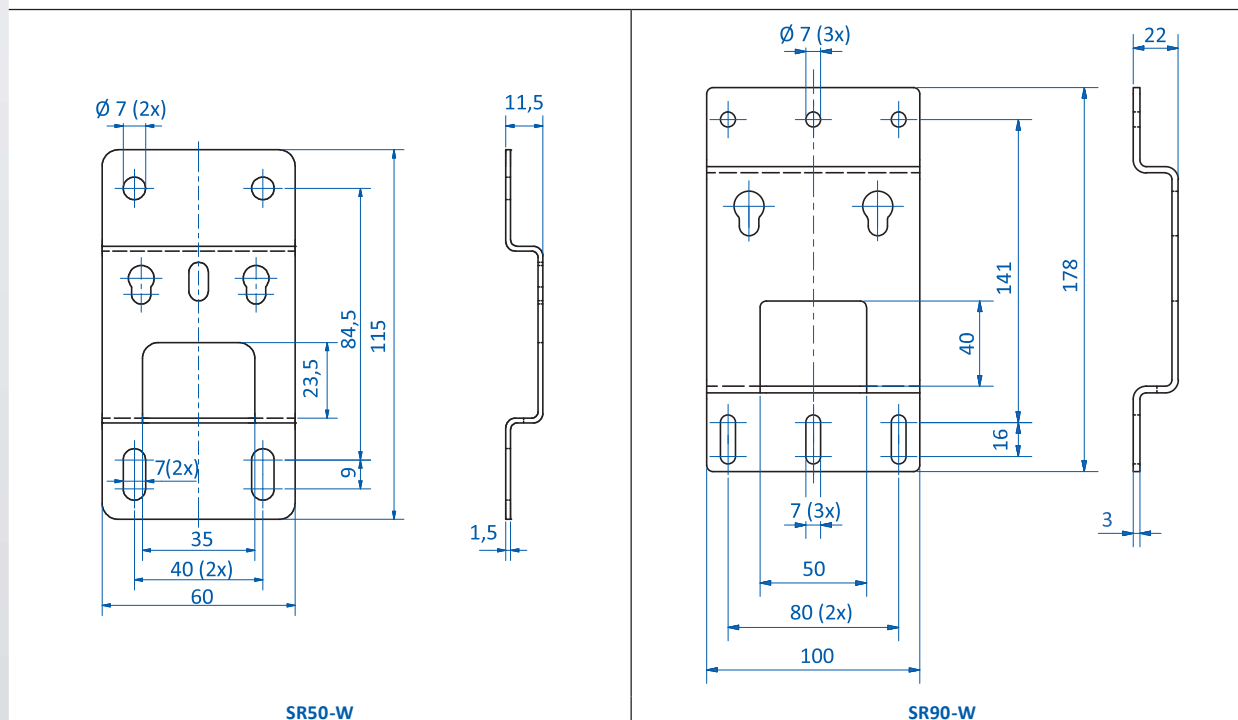
Product notes

- > Efficient and safe storage of EOAT with SR Series round quick-changers
- > Suitable for third-party round gripper systems

Technical data

Item no.	Weight [g]	Suitable quick-change systems
SR50-W	76	SR50-B
SR90-W	600	SR90-B-2
SR150-W	1,200	SR150-B-2

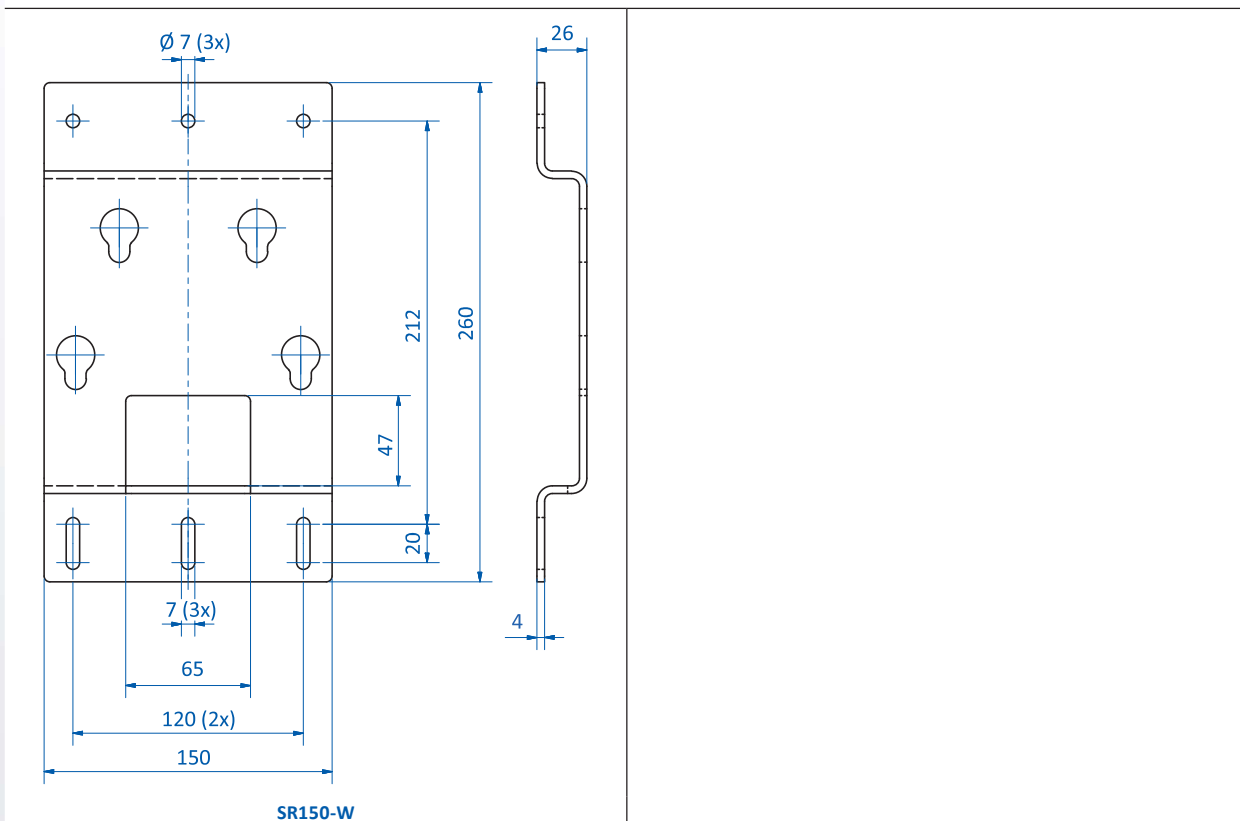
Dimensions



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Dimensions





Electric plug connectors for SR50, SR90 and SR150



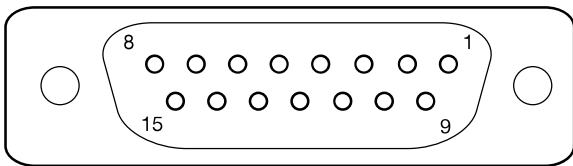
Product notes

- > Electrical interface between robot and gripper
- > 9 pin SUB-D plug and 15 pin SUB-D plug
- > Max. cable cross section 0.14 mm² based on 16 - 18-wire cable
- > Suitable D-SUB connector set 20.505 for open cable ends not included in the scope of delivery
- > 20.537 and 20.538: with pre-assembled and soldered cable

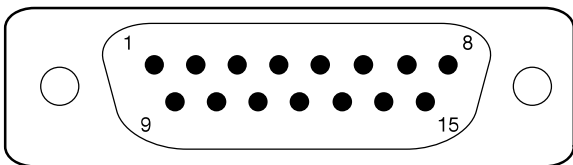
Technical data

Item no.	Suitable quick-change systems	Type	Number of pins	Operating voltage [VDC]	Weight [g]	Suitable plug
20.535	SR90-A-2, SR90-A-MV-2, SR150-A-2, SR90-A-SL-2, SR150-A-SL-2, SR90-A-SL-MV-2	female (robot)	15	24	42	20.505
20.536	SR90-B-2, SR150-B-2	male (gripper)	15	24	41	20.505
20.537	SR50-A, SR50-A-SL, SR50-A-MV, SR50-A-SL-MV	female (robot)	9	24	42	20.505
20.538	SR50-B	male (gripper)	9	24	41	20.505

Wiring diagram for 20.535



Wiring diagram for 20.536



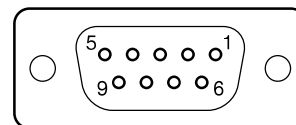
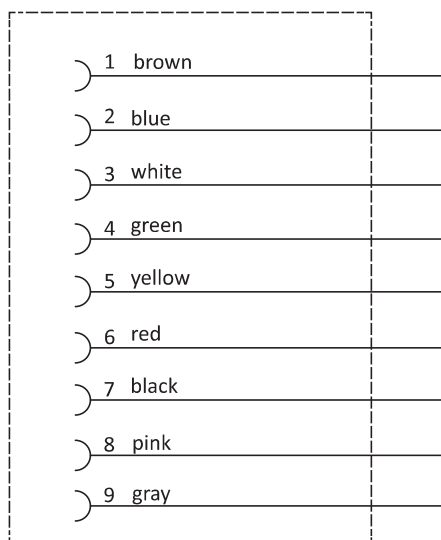
Continued on the next page →



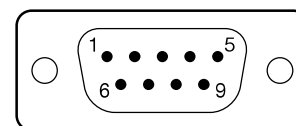
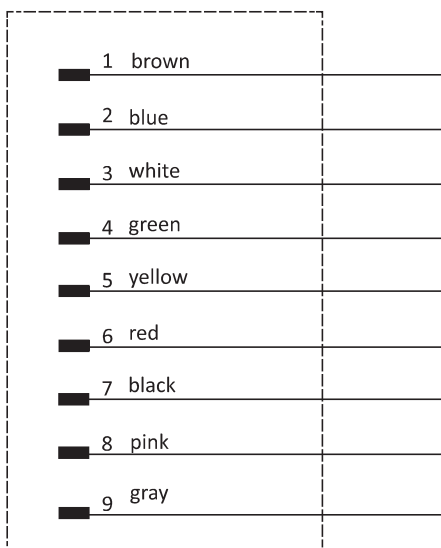
Quick-change systems | Accessories – SR Series

Electric plug connectors for SR50, SR90 and SR150

Wiring diagram for 20.537



Wiring diagram for 20.538

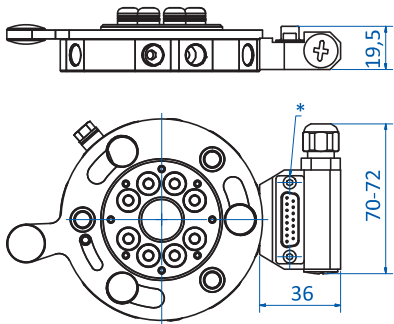


Application example: SR Series with electric connectors 20.536

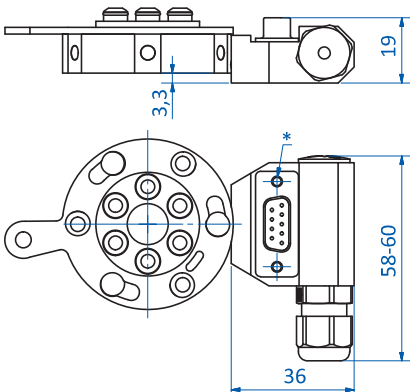




Dimensions



20.535 | 20.536



20.537 | 20.538

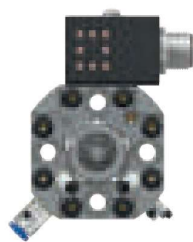
* = Remove plug connection for cable installation



Quick-change systems | MPS Series

Automatic quick-change system Stäubli MPS015 – robot side

Automatic quick-change system Stäubli MPS015 – robot side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of $\pm 1.5 \mu\text{m}$
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > Sensor interrogation: locked / unlocked / coupled

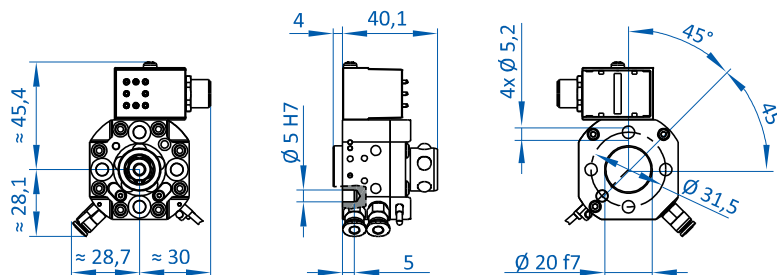
Notes

Due to their potentially high acceleration, robots can generate dynamic moments that are several times higher than the static moments. The dynamic moments can occur in an emergency situation of the robot. Since these should only occur very rarely during the robot's service life, a static strength verification is usually sufficient for this.

Technical data

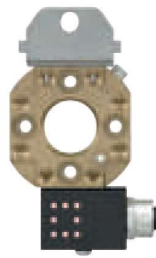
Item no.	ASR-MPS015R	ASR-MPS015R-PNP	ASR-MPS015R-NPN
Sensor	without	3x PNP/3x M8	3x NPN/3x M8
Compressed air connection	2x Push-lock hose- $\varnothing$ 4 mm	2x Push-lock hose- $\varnothing$ 4 mm	2x Push-lock hose- $\varnothing$ 4 mm
Pneumatic media feedthrough	4x M5	4x M5	4x M5
Max. lifting force [kg]	10	10	10
Signal and Data transmission	M12 8-pin a-coded	M12 8-pin a-coded	M12 8-pin a-coded
Robot flange	ISO 9409-1-31.5-4-M5	ISO 9409-1-31.5-4-M5	ISO 9409-1-31.5-4-M5
Max. static moment M_x/M_y [Nm]	15	15	15
Max. dynamic moment M_x/M_y [Nm]	52	52	52
Max. static moment M_z [Nm]	15	15	15
Max. dynamic moment M_z [Nm]	52	52	52
Max. repulsion force [kN]	4	4	4
Connection force [kN]	4	4	4
Max. lateral force [kN]	2	2	2
Weight [kg]	0.26	0.32	0.32
Suitable gripper side	ASR-MPS015G	ASR-MPS015G	ASR-MPS015G

Dimensions





Automatic quick-change system Stäubli MPS015 – gripper side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of $\pm 1.5 \mu\text{m}$
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > With flange for storage system

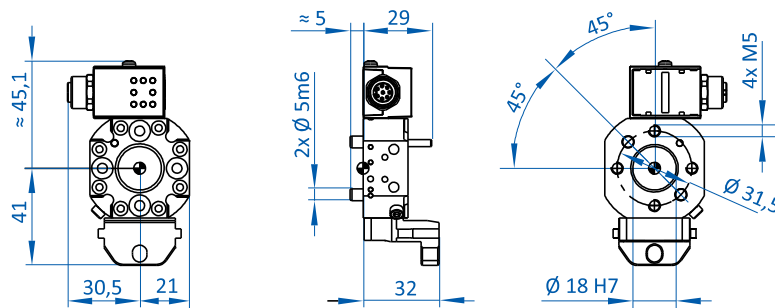
Notes

- > The load values can be found in the data sheet for the robot side

Technical data

Item no.	ASR-MPS015G
Pneumatic media feedthrough	4x M5
Signal and Data transmission	M12 8-pin a-coded
Max. lifting force [kg]	10
Weight [kg]	0.22

Dimensions





Quick-change systems | MPS Series

Automatic quick-change system Stäubli MPS025 – robot side

Automatic quick-change system Stäubli MPS025 – robot side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of +/- 1.5 µm
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > Sensor interrogation: locked / unlocked / coupled

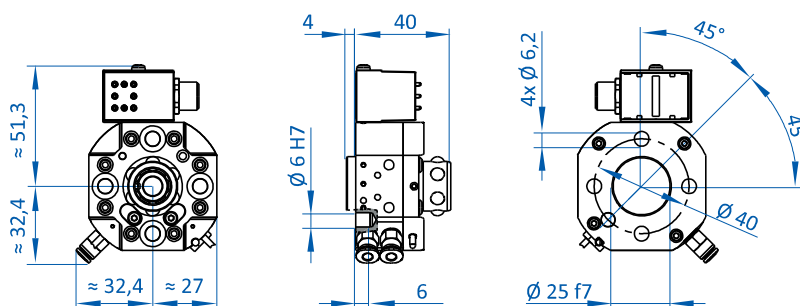
Notes

Due to their potentially high acceleration, robots can generate dynamic moments that are several times higher than the static moments. The dynamic moments can occur in an emergency situation of the robot. Since these should only occur very rarely during the robot's service life, a static strength verification is usually sufficient for this.

Technical data

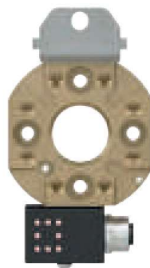
Item no.	ASR-MPS025R	ASR-MPS025R-PNP	ASR-MPS025R-NPN
Sensor	without	3x PNP/3x M8	3x NPN/3x M8
Compressed air connection	2x Push-lock hose-Ø 4 mm	2x Push-lock hose-Ø 4 mm	2x Push-lock hose-Ø 4 mm
Pneumatic media feedthrough	4x M5	4x M5	4x M5
Max. lifting force [kg]	20	20	20
Signal and Data transmission	M12 8-pin a-coded	M12 8-pin a-coded	M12 8-pin a-coded
Robot flange	ISO 9409-1-40-4-M6	ISO 9409-1-40-4-M6	ISO 9409-1-40-4-M6
Max. static moment Mx/My [Nm]	34	34	34
Max. dynamic moment Mx/My [Nm]	119	119	119
Max. static moment Mz [Nm]	34	34	34
Max. dynamic moment Mz [Nm]	119	119	119
Max. repulsion force [kN]	6	6	6
Connection force [kN]	6	6	6
Max. lateral force [kN]	2	2	2
Weight [kg]	0.37	0.44	0.44
Suitable gripper side	ASR-MPS025G	ASR-MPS025G	ASR-MPS025G

Dimensions





Automatic quick-change system Stäubli MPS025 – gripper side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of $\pm 1.5 \mu\text{m}$
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > With flange for storage system

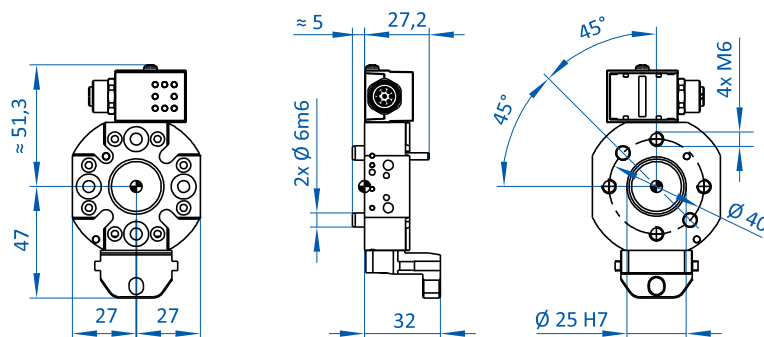
Notes

- > The load values can be found in the data sheet for the robot side

Technical data

Item no.	ASR-MPS025G
Pneumatic media feedthrough	4x M5
Signal and Data transmission	M12 8-pin a-coded
Max. lifting force [kg]	20
Weight [kg]	0.26

Dimensions





Quick-change systems | MPS Series

Automatic quick-change system Stäubli MPS035 – robot side

Automatic quick-change system Stäubli MPS035 – robot side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of +/- 1.5 µm
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > Sensor interrogation: locked / unlocked / coupled

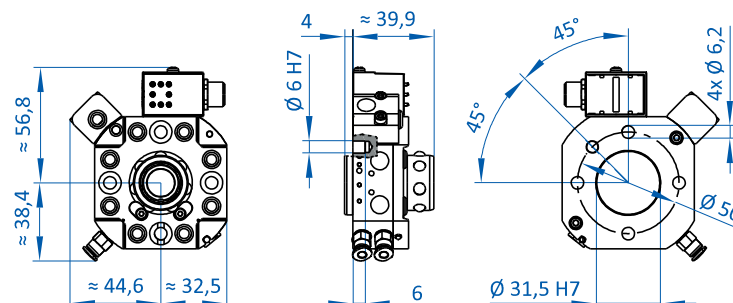
Notes

Due to their potentially high acceleration, robots can generate dynamic moments that are several times higher than the static moments. The dynamic moments can occur in an emergency situation of the robot. Since these should only occur very rarely during the robot's service life, a static strength verification is usually sufficient for this.

Technical data

Item no.	ASR-MPS035R	ASR-MPS035R-PNP	ASR-MPS035R-NPN
Sensor	without	3x PNP/3x M8	3x NPN/3x M8
Compressed air connection	2x Push-lock hose-Ø 4 mm	2x Push-lock hose-Ø 4 mm	2x Push-lock hose-Ø 4 mm
Pneumatic media feedthrough	5x G1/8	5x G1/8	5x G1/8
Max. lifting force [kg]	35	35	35
Signal and Data transmission	M12 8-pin a-coded	M12 8-pin a-coded	M12 8-pin a-coded
Robot flange	ISO 9409-1-50-4-M6	ISO 9409-1-50-4-M6	ISO 9409-1-50-4-M6
Max. static moment Mx/My [Nm]	80	80	80
Max. dynamic moment Mx/My [Nm]	280	280	280
Max. static moment Mz [Nm]	80	80	80
Max. dynamic moment Mz [Nm]	280	280	280
Max. repulsion force [kN]	10	10	10
Connection force [kN]	10	10	10
Max. lateral force [kN]	5	5	5
Weight [kg]	0.5	0.56	0.56
Suitable gripper side	ASR-MPS035G	ASR-MPS035G	ASR-MPS035G

Dimensions





Automatic quick-change system Stäubli MPS035 – gripper side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of $\pm 1.5 \mu\text{m}$
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > With flange for storage system

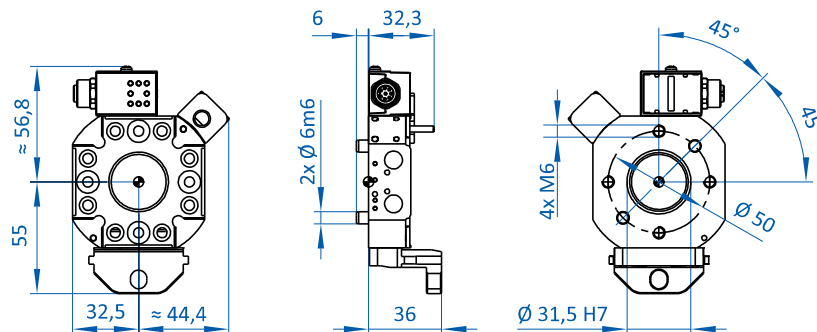
Notes

- > The load values can be found in the data sheet for the robot side

Technical data

Item no.	ASR-MPS035G
Pneumatic media feedthrough	5x G1/8
Signal and Data transmission	M12 8-pin a-coded
Max. lifting force [kg]	35
Weight [kg]	0.38

Dimensions





Quick-change systems | MPS Series

Automatic quick-change system Stäubli MPS055 – robot side

Automatic quick-change system Stäubli MPS055 – robot side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of +/- 1.5 µm
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > Sensor interrogation: locked / unlocked / coupled

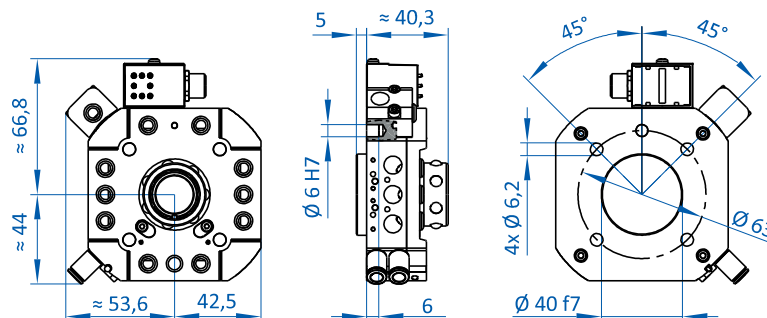
Notes

Due to their potentially high acceleration, robots can generate dynamic moments that are several times higher than the static moments. The dynamic moments can occur in an emergency situation of the robot. Since these should only occur very rarely during the robot's service life, a static strength verification is usually sufficient for this.

Technical data

Item no.	ASR-MPS055R	ASR-MPS055R-PNP	ASR-MPS055R-NPN
Sensor	without	3x PNP/3x M8	3x NPN/3x M8
Compressed air connection	2x Push-lock hose-Ø 6 mm	2x Push-lock hose-Ø 6 mm	2x Push-lock hose-Ø 6 mm
Pneumatic media feedthrough	5x G1/8	5x G1/8	5x G1/8
Max. lifting force [kg]	55	55	55
Signal and Data transmission	M12 8-pin a-coded	M12 8-pin a-coded	M12 8-pin a-coded
Robot flange	ISO 9409-1-63-4-M6	ISO 9409-1-63-4-M6	ISO 9409-1-63-4-M6
Max. static moment Mx/My [Nm]	145	145	145
Max. dynamic moment Mx/My [Nm]	507	507	507
Max. static moment Mz [Nm]	106	106	106
Max. dynamic moment Mz [Nm]	371	371	371
Max. repulsion force [kN]	12	12	12
Connection force [kN]	12	12	12
Max. lateral force [kN]	6.5	6.5	6.5
Weight [kg]	0.9	0.96	0.96
Suitable gripper side	ASR-MPS055G	ASR-MPS055G	ASR-MPS055G

Dimensions





Automatic quick-change system Stäubli MPS055 – gripper side



Product notes

- > System for automatic tool change on all common industrial robots with ISO flange
- > Very precise design with a repeat accuracy of $\pm 1.5 \mu\text{m}$
- > With locking by pressure spring in case of power loss, emergency unlocking is possible
- > With flange for storage system

Notes

- > The load values can be found in the data sheet for the robot side

Technical data

Item no.	ASR-MPS055G
Pneumatic media feedthrough	5x G1/8
Signal and Data transmission	M12 8-pin a-coded
Max. lifting force [kg]	55
Weight [kg]	0.49

Dimensions

