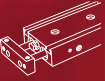
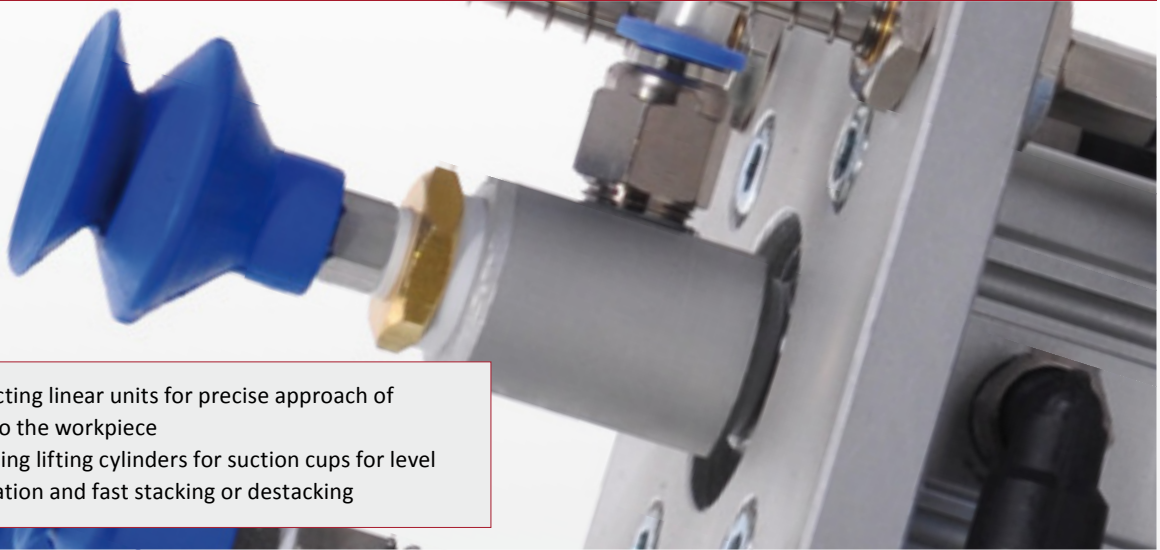


Linear technology at a glance	303
Lifting cylinders	304
Short lifting cylinders	308
Dual piston cylinders	311
Guide blocks	313
Accessories	320

[illegible]



FIPA Linear technology



- > Double-acting linear units for precise approach of grippers to the workpiece
- > Single-acting lifting cylinders for suction cups for level compensation and fast stacking or destacking



Lifting cylinders - vacuum or compressed air operated

- > Torsionally rigid piston plunger for fast stacking or destacking of flat objects such as cards, signs, veneer
- > Fixation of workpieces in cutting stations
- > Model 55.005 comes with integrated blow-off function for short duty cycles
- > See page 304



Short lift cylinders

- > Space-saving, lightweight design
- > Sensors for optional monitoring of piston position
- > To be used as gripping or holding tool when combined with pressure plates GR07.196 - GR07.199
- > See page 308



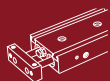
Dual-piston cylinders

- > Feed lift of grippers and cutting tools
- > Torsionally rigid 2-piston design and precise slide bearing guiding for high loads
- > Sensors for optional monitoring of piston position
- > See page 311



Linear guide blocks

- > Feed lift of grippers and cutting tools
- > GR07.506 to GR07.520 come in extra slim design for space-saving installation
- > Sensors for optional monitoring of piston position
- > See page 317



Linear technology | Lifting cylinders

Lifting cylinders - operated by compressed air

Lifting cylinders - operated by compressed air

With blow-off feature, torsionally rigid



Product description

- > Picking-up and stacking of flat and sensitive objects such as signs, card, labels, veneer in the correct position using non rotating piston rod
- > Integrated vacuum generation
- > Very short cycle times due to integrated compressed air pulse during placement
- > Very compact design in robust aluminium housing
- > Long service life of around 25 million cycles thanks to Hartcoat® treated running surfaces
- > Optional monitoring of piston position

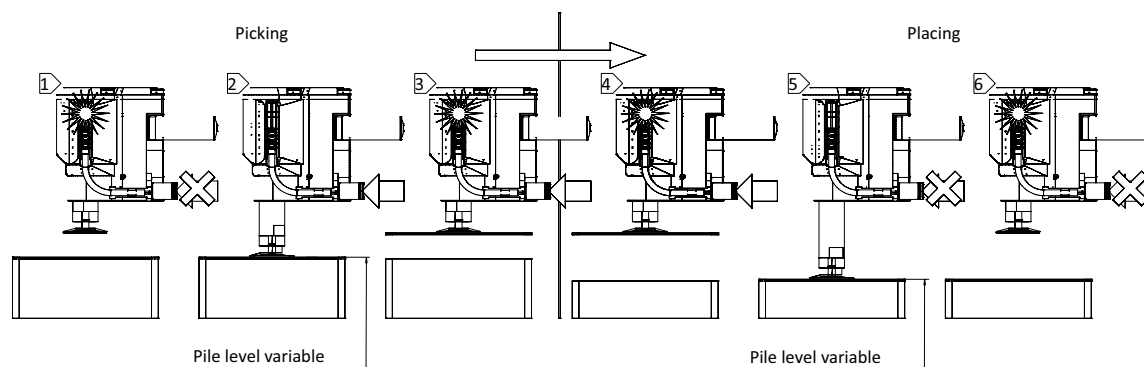
Notes

- > For release of workpiece in defined position compressed air line needs to be shut and ventilated by means of a 3/2-way valve. Otherwise the piston will not extend and the workpiece will fall down.

Technical data

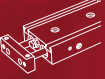
Item no.	Lift [mm]	Lifting force at 6 bar [N]	Operating pressure [bar]	Volume flow at 6 bar [l/min]	Operating temperature [°C]	Weight [g]	Accessories
55.005	25	8	5 - 8	48	5 - 80	220	Silencer 72.028 (p.368) Magnetic field sensor 55.099

Wiring diagram

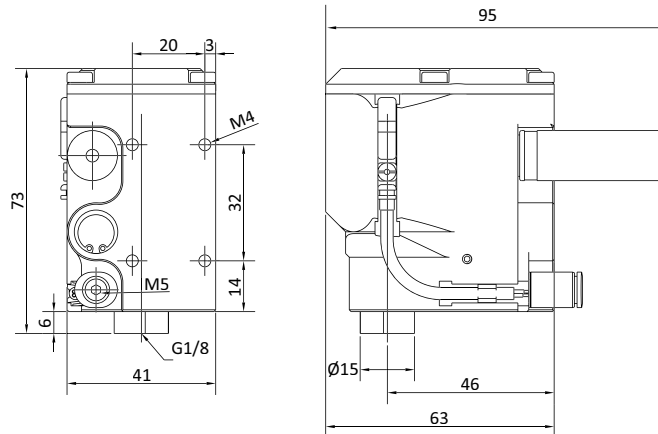


Process:

1. Initial position: Compressed air off, piston drawn in, magnetic sensor in operation
2. Compressed air switched on, piston moves out, workpiece is pulled in, piston retracts with the workpiece to the initial position
3. Workpiece sucked in and lifted, compressed air on, magnetic field sensor in operation
4. Transport movement
5. Switch off compressed air, piston moves out with the workpiece, places the workpiece and retracts to the initial position
6. Initial position: Compressed air off, piston drawn in, magnetic sensor in operation

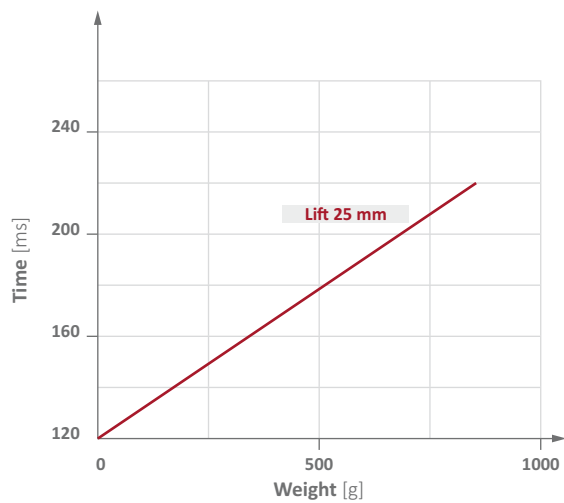


Dimensions

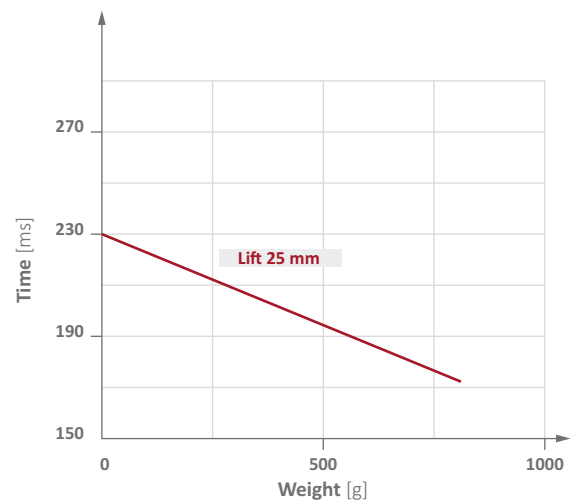


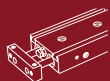
Diagrams

> Double lift lifting time against weight, pressure 6 bar



> Double lift placing time against weight, pressure 6 bar





Lifting cylinders - vacuum-operated

Torsionally rigid



55.000 | 55.001 | 55.004



55.002

Product description

- > Picking-up and stacking flat and sensitive objects such as e.g. signs, cards, paper, veneers
- > Suitable for short cycle times
- > Application e.g. for workpiece positioning in cutting stations
- > Robust aluminium housing, Hartcoat® treated
- > Non-rotating piston rod
- > Low-noise version

Notes

- > 55.002: Stacking and lifting of metal sheet and heavy parts
- > Not suitable for workpieces permeable to air

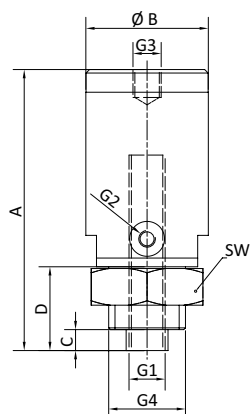
Ordering notes

- > Customised sizes on request

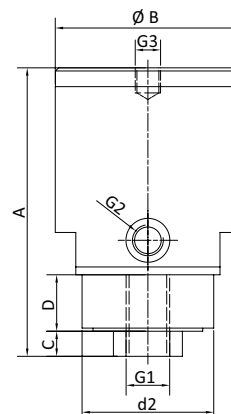
Technical data

Item no.	Lift [mm]	Volume flow at 80 % vacuum [Nl/min]	Lifting force at 80 % vacuum [N]	Cycle time (extend-suction-lift) [s]	Operating temperature [°C]	Weight [g]
55.000	17	15	3	0.3	5 - 80	55
55.001	25	30	10	0.4	5 - 80	145
55.002	30	35	50	0.7	5 - 80	310
55.004	40	30	10	0.7	5 - 80	185

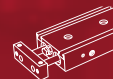
Dimensions



55.000 | 55.001 | 55.004



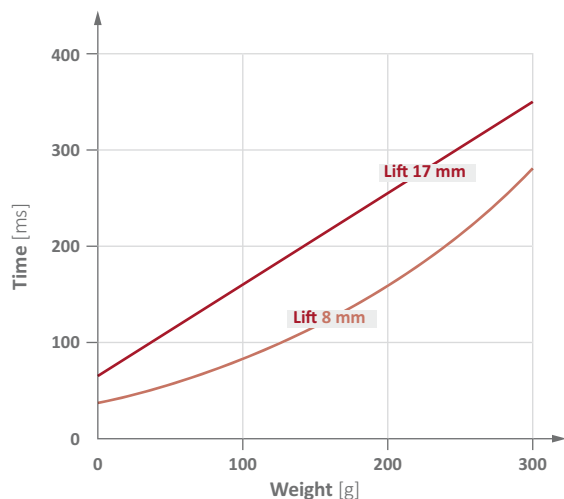
55.002



Item no.	G1	G2	G3	G4	A [mm]	Ø B [mm]	C [mm]	D [mm]	d2 [mm]	SW
55.000	M5	M5	M6	M16x1.5	55.5	24	4	16	--	24
55.001	G1/8	M5	M8	M22x1.5	78	35	6	22	--	32
55.002	G1/4	G1/8	M10	--	92	59	9	18	44	--
55.004	G1/8	G1/8	M8	M22x1.5	98	35	9	24	--	32

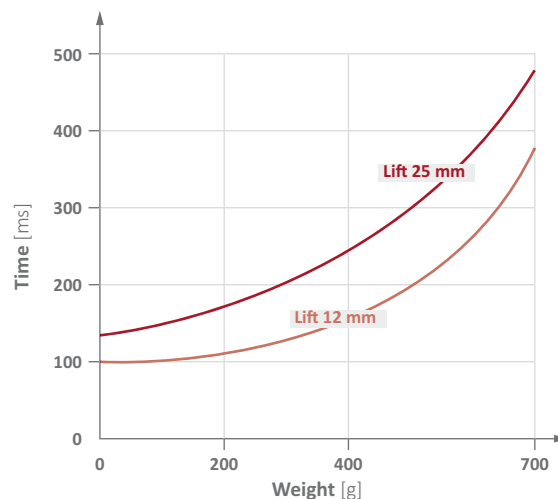
Diagrams

> Double lift lifting time against weight



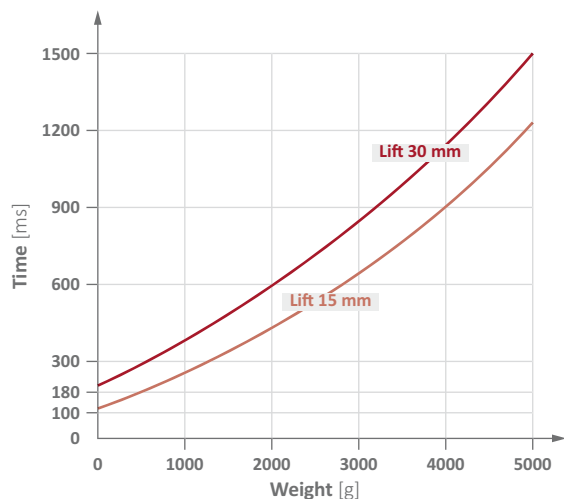
55.000

> Double lift lifting time against weight



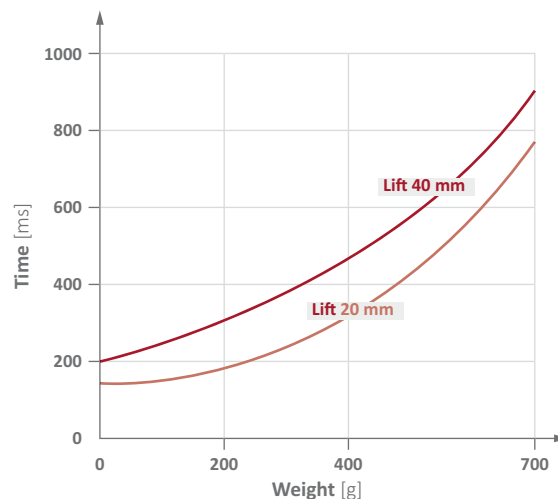
55.001

> Double lift lifting time against weight

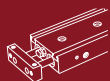


55.002

> Double lift lifting time against weight



55.004



Linear technology | Short lifting cylinders

Short lifting cylinders - double-acting

Short lifting cylinders - double-acting



Product description

- > Elements to guide gripper components such as vacuum cups to the workpiece
- > Double-acting, separate compressed air connections for extraction and retraction
- > Sensors for optional detection of piston position (extracted / retracted)

Notes

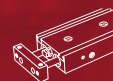
- > Can be used as gripper tool when combined with pressure plates GR07.196 - GR07.199

Ordering notes

- > Screws and lock washers included in scope of delivery
- > Further lift versions available on request
- > PNP and NPN sensors:
 - C-slot (90° angle): GR04.202P, GR04.202N
 - C-slot (straight, short design): GR04.280P, GR04.280N

Technical data

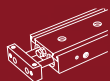
Item no.	Com-pressed air connection	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Medium	Operating temperature [°C]	Weight [g]	Accessories
GR07.012-5	M5	0.5 - 9.9	12	5	Filtered and oiled / unoiled air	-5 - 60	8	Mounting bracket GR07.002 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.012-10	M5	0.5 - 9.9	12	10	Filtered and oiled / unoiled air	-5 - 60	9	Mounting bracket GR07.002 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.016-5	M5	0.5 - 9.9	16	5	Filtered and oiled / unoiled air	-5 - 60	16	Mounting bracket GR07.002 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.016-10	M5	0.5 - 9.9	16	10	Filtered and oiled / unoiled air	-5 - 60	18	Mounting bracket GR07.002 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.016-20	M5	0.5 - 9.9	16	20	Filtered and oiled / unoiled air	-5 - 60	22	Mounting bracket GR07.002 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.016-30	M5	0.5 - 9.9	16	30	Filtered and oiled / unoiled air	-5 - 60	26	Mounting bracket GR07.002 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)



Technical data

Item no.	Com-pressed air connection	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Medium	Operating temperature [°C]	Weight [g]	Accessories
GR07.020-5	M5	0.5 - 9.9	20	5	Filtered and oiled / unoled air	-5 - 60	28	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.020-10	M5	0.5 - 9.9	20	10	Filtered and oiled / unoled air	-5 - 60	31	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.020-20	M5	0.5 - 9.9	20	20	Filtered and oiled / unoled air	-5 - 60	37	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.020-30	M5	0.5 - 9.9	20	30	Filtered and oiled / unoled air	-5 - 60	44	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.020-50	M5	0.5 - 9.9	20	50	Filtered and oiled / unoled air	-5 - 60	56	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.025-5	M5	0.5 - 9.9	25	5	Filtered and oiled / unoled air	-5 - 60	44	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.025-10	M5	0.5 - 9.9	25	10	Filtered and oiled / unoled air	-5 - 60	48	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.025-20	M5	0.5 - 9.9	25	20	Filtered and oiled / unoled air	-5 - 60	57	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.025-30	M5	0.5 - 9.9	25	30	Filtered and oiled / unoled air	-5 - 60	66	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.025-50	M5	0.5 - 9.9	25	50	Filtered and oiled / unoled air	-5 - 60	84	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.032-5	G1/8	0.5 - 9.9	32	5	Filtered and oiled / unoled air	-5 - 60	78	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.032-10	G1/8	0.5 - 9.9	32	10	Filtered and oiled / unoled air	-5 - 60	86	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.032-20	G1/8	0.5 - 9.9	32	20	Filtered and oiled / unoled air	-5 - 60	105	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)

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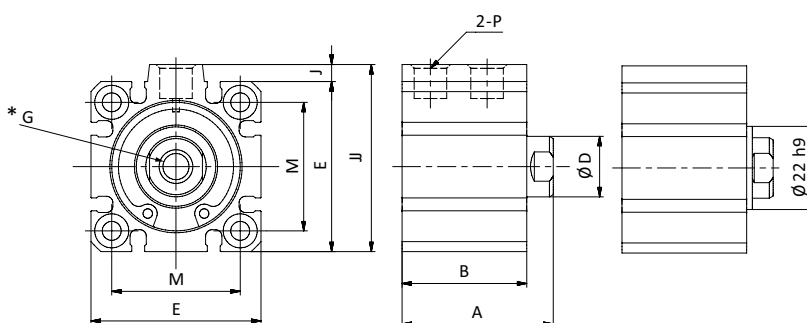
Linear technology | Short lifting cylinders

Short lifting cylinders - double-acting

Technical data

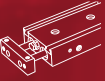
Item no.	Com-pressed air connection	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Medium	Operating temperature [°C]	Weight [g]	Accessories
GR07.032-30	G1/8	0.5 - 9.9	32	30	Filtered and oiled / unoiled air	-5 - 60	117	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)
GR07.032-50	G1/8	0.5 - 9.9	32	50	Filtered and oiled / unoiled air	-5 - 60	125	Mounting bracket GR07.001 (p.321) Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374)

Dimensions



* = Female thread G with depth C

Item no.	G	P	A [mm]	B [mm]	C [mm]	Ø D [mm]	E [mm]	J [mm]	JJ [mm]	M [mm]
GR07.012-5	M3x0.5	M5 x 0,8	30.5	27	6	6	25	--	--	15.5
GR07.012-10	M3x0.5	M5 x 0,8	35.5	32	6	6	25	--	--	15.5
GR07.016-5	M4x0.7	M5 x 0,8	30.5	27	8	8	29	--	--	20
GR07.016-10	M4x0.7	M5 x 0,8	35.5	32	8	8	29	--	--	20
GR07.016-20	M4x0.7	M5 x 0,8	45.5	42	8	8	29	--	--	20
GR07.016-30	M4x0.7	M5 x 0,8	55.5	52	8	8	29	--	--	20
GR07.020-5	M5x0.8	M5 x 0,8	39	34.5	7	10	36	--	--	25.5
GR07.020-10	M5x0.8	M5 x 0,8	44	39.5	7	10	36	--	--	25.5
GR07.020-20	M5x0.8	M5 x 0,8	54	49.5	7	10	36	--	--	25.5
GR07.020-30	M5x0.8	M5 x 0,8	64	59.5	7	10	36	--	--	25.5
GR07.020-50	M5x0.8	M5 x 0,8	84	79.5	7	10	36	--	--	25.5
GR07.025-5	M6x1	M5 x 0,8	42.5	37.5	12	12	40	--	--	28
GR07.025-10	M6x1	M5 x 0,8	47.5	42.5	12	12	40	--	--	28
GR07.025-20	M6x1	M5 x 0,8	57.5	52.5	12	12	40	--	--	28
GR07.025-30	M6x1	M5 x 0,8	67.5	62.5	12	12	40	--	--	28
GR07.025-50	M6x1	M5 x 0,8	87.5	82.5	12	12	40	--	--	28
GR07.032-5	M8x1.25	G1/8	45	38	13	16	45	4.5	49.5	34
GR07.032-10	M8x1.25	G1/8	50	43	13	16	45	4.5	49.5	34
GR07.032-20	M8x1.25	G1/8	60	53	13	16	45	4.5	49.5	34
GR07.032-30	M8x1.25	G1/8	70	63	13	16	45	4.5	49.5	34
GR07.032-50	M8x1.25	G1/8	90	83	13	16	45	4.5	49.5	34



Dual-piston cylinders - double-acting

HIGH PRECISION CYLINDER GUIDING, ANTI-TWIST PROTECTION



Combination of dual-piston cylinder and guide block

Product description

- > Unit to precisely guide gripper components such as vacuum cups to the workpiece
- > Double-acting, separate compressed air connections for extraction and retraction
- > Sensors for optional detection of piston position (extracted / retracted)

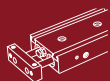
Ordering notes

- > PNP and NPN sensors:
 - C-slot (90° angle): GR04.202P, GR04.202N
 - C-slot (straight, short design): GR04.280P, GR04.280N

Technical data

Item no.	Com-pressed air connection	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Medium	Operating temperature [°C]	Weight [g]	Suitable sensors
GR07.112-25	M5	1 - 7	12	25	Filtered and oiled / unoiled air	-5 - 70	180	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.112-50	M5	1 - 7	12	50	Filtered and oiled / unoiled air	-5 - 70	230	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.112-75	M5	1 - 7	12	75	Filtered and oiled / unoiled air	-5 - 70	280	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.116-25	M5	1 - 7	16	25	Filtered and oiled / unoiled air	-5 - 70	290	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.116-50	M5	1 - 7	16	50	Filtered and oiled / unoiled air	-5 - 70	360	--
GR07.116-75	M5	1 - 7	16	75	Filtered and oiled / unoiled air	-5 - 70	435	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.116-100	M5	1 - 7	16	100	Filtered and oiled / unoiled air	-5 - 70	510	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)

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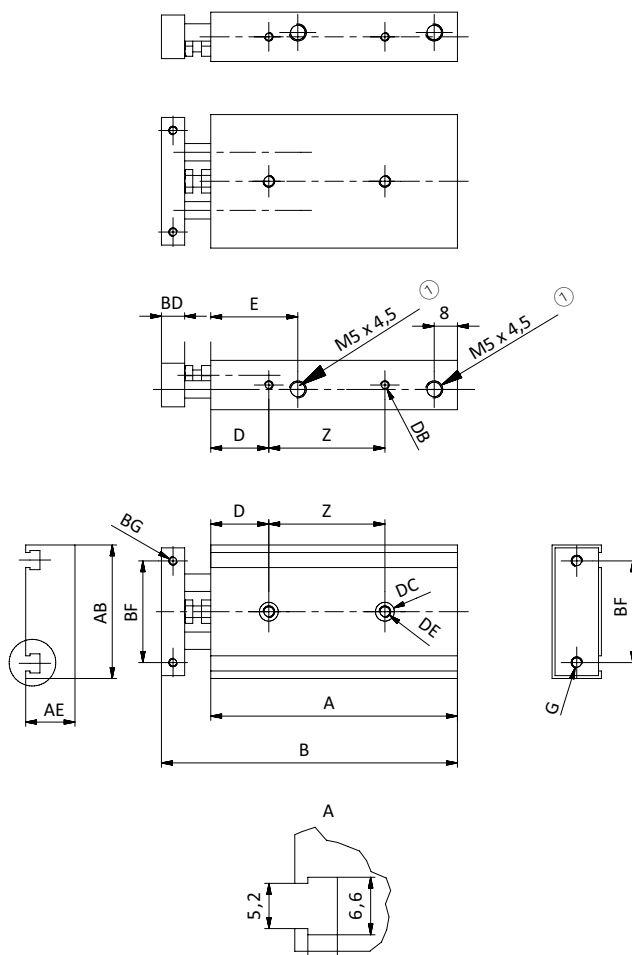
Linear technology | Dual piston cylinders

Dual-piston cylinders - double-acting

Theoretical cylinder force depending on the working pressure

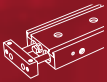
Working pressure [bar]	Cylinder force [N]			
	GR07.112-xx		GR07.116-xx	
	Move out	Move in	Move out	Move in
1	16	10	35.5	25
1.5	23.5	15	53	38
2	31.5	20	70.5	50.5
3	47	30	106	75.5
4	63	40	141	101
5	78.5	50	176.5	126
6	94	60	212	151
7	110	70	247	176.5

Dimensions



① = Compressed air connection M5

Item no.	BG	DB	G	A [mm]	AB [mm]	AE [mm]	B [mm]	BD [mm]	BF [mm]	D [mm]	DC [mm]	DE [mm]	E [mm]	Z [mm]
GR07.112-25	M3x0.5x5	M3x0.5x4.5	M4x0.7	80	46	17	97	8	35	20	6.5x3.3	3.4	30	30
GR07.112-50	M3x0.5x5	M3x0.5x4.5	M4x0.7	105	46	17	122	8	35	20	6.5x3.3	3.4	30	40
GR07.112-75	M3x0.5x5	M3x0.5x4.5	M4x0.7	130	46	17	147	8	35	20	6.5x3.3	3.4	30	50
GR07.116-25	M4x0.7x6	M4x0.7x5	M4x0.8	85	58	20	104	10	45	30	8x4.4	4.3	38.5	25
GR07.116-50	M4x0.7x6	M4x0.7x5	M4x0.8	110	58	20	129	10	45	30	8x4.4	4.3	38.5	35
GR07.116-75	M4x0.7x6	M4x0.7x5	M4x0.8	135	58	20	154	10	45	30	8x4.4	4.3	38.5	45
GR07.116-100	M4x0.7x6	M4x0.7x5	M4x0.8	160	58	20	179	10	45	30	8x4.4	4.3	38.5	55



HIGH PRECISION COMBINATION OF CYLINDER AND LINEAR GUIDING



Guide blocks - double-acting



Combination of guide block and dual-piston cylinder

Product description

- > Unit to precisely guide gripper components such as sprue grippers or nippers to the workpiece
- > Double-acting, separate compressed air connections for extraction and retraction
- > Sensors for optional detection of piston position (extracted / retracted)

Notes

- > Linear guide blocks can also be used to move gripped workpieces more closely together, to prepare the items for example for pick and place by vacuum grippers

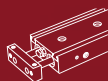
Ordering notes

- > Lift adjusters available on request
- > PNP and NPN sensors:
 - C-slot (90° angle): GR04.202P, GR04.202N
 - C-slot (straight, short design): GR04.280P, GR04.280N

Technical data

Item no.	Compressed air connection	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Medium	Operating temperature [°C]	Weight [g]	Suitable sensors
GR07.208-30	2xM5	1.5 - 7	8	30	Filtered and oiled / unoled air	-5 - 60	190	GR04.202P (p.374) GR04.202N (p.374) GR04.280P (p.374) GR04.280N (p.374)
GR07.208-50	2xM5	1.5 - 7	8	50	Filtered and oiled / unoled air	-5 - 60	285	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.208-75	2xM5	1.5 - 7	8	75	Filtered and oiled / unoled air	-5 - 60	410	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.216-30	2xM5	1.5 - 7	16	30	Filtered and oiled / unoled air	-5 - 60	602	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.216-50	2xM5	1.5 - 7	16	50	Filtered and oiled / unoled air	-5 - 60	762	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)

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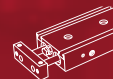


Technical data

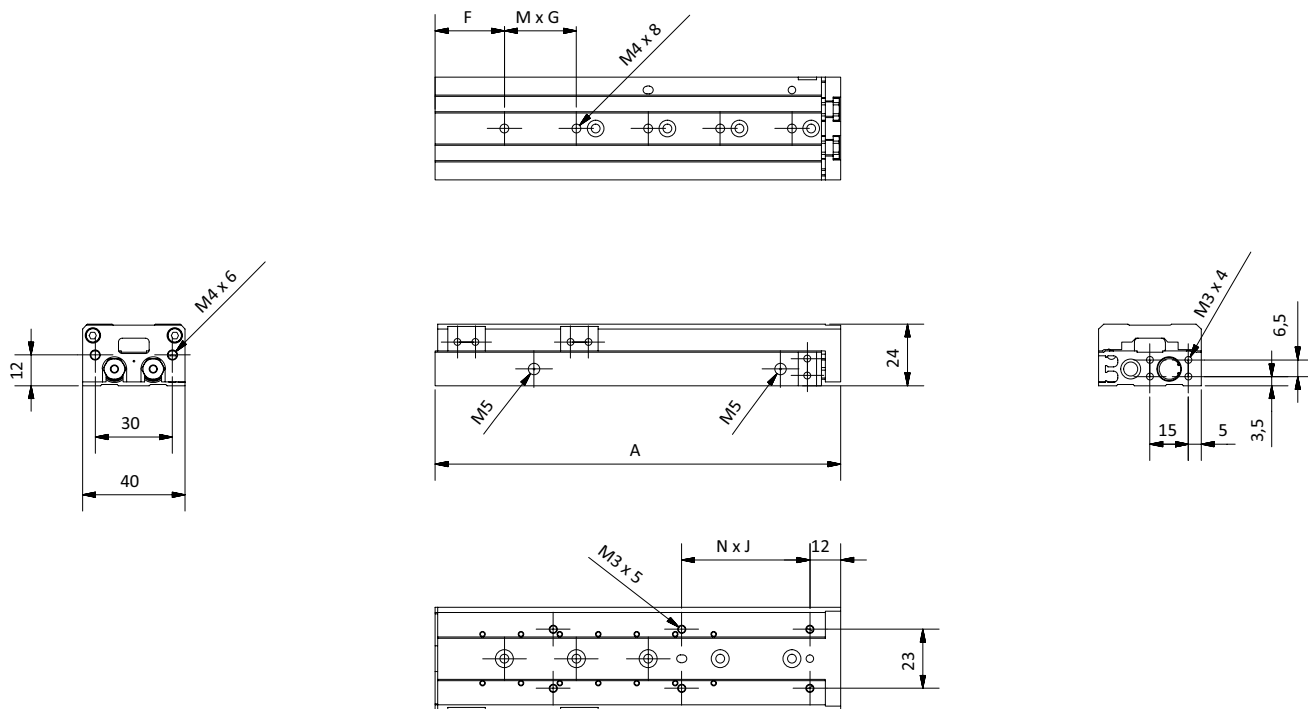
Item no.	Compressed air connection	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Medium	Operating temperature [°C]	Weight [g]	Suitable sensors
GR07.216-75	2xM5	1.5 - 7	16	75	Filtered and oiled / unoiled air	-5 - 60	1,095	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.216-100	2xM5	1.5 - 7	16	100	Filtered and oiled / unoiled air	-5 - 60	1,410	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.220-30	2xG1/8	1.5 - 7	20	30	Filtered and oiled / unoiled air	-5 - 60	1,010	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.220-50	2xG1/8	1.5 - 7	20	50	Filtered and oiled / unoiled air	-5 - 60	1,250	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.220-75	2xG1/8	1.5 - 7	20	75	Filtered and oiled / unoiled air	-5 - 60	1,630	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.220-100	2xG1/8	1.5 - 7	20	100	Filtered and oiled / unoiled air	-5 - 60	2,150	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.220-125	2xG1/8	1.5 - 7	20	125	Filtered and oiled / unoiled air	-5 - 60	2,670	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)
GR07.220-150	2xG1/8	1.5 - 7	20	150	Filtered and oiled / unoiled air	-5 - 60	3,190	GR04.202N (p.374) GR04.202P (p.374) GR04.280N (p.374) GR04.280P (p.374)

Theoretical cylinder force depending on the working pressure

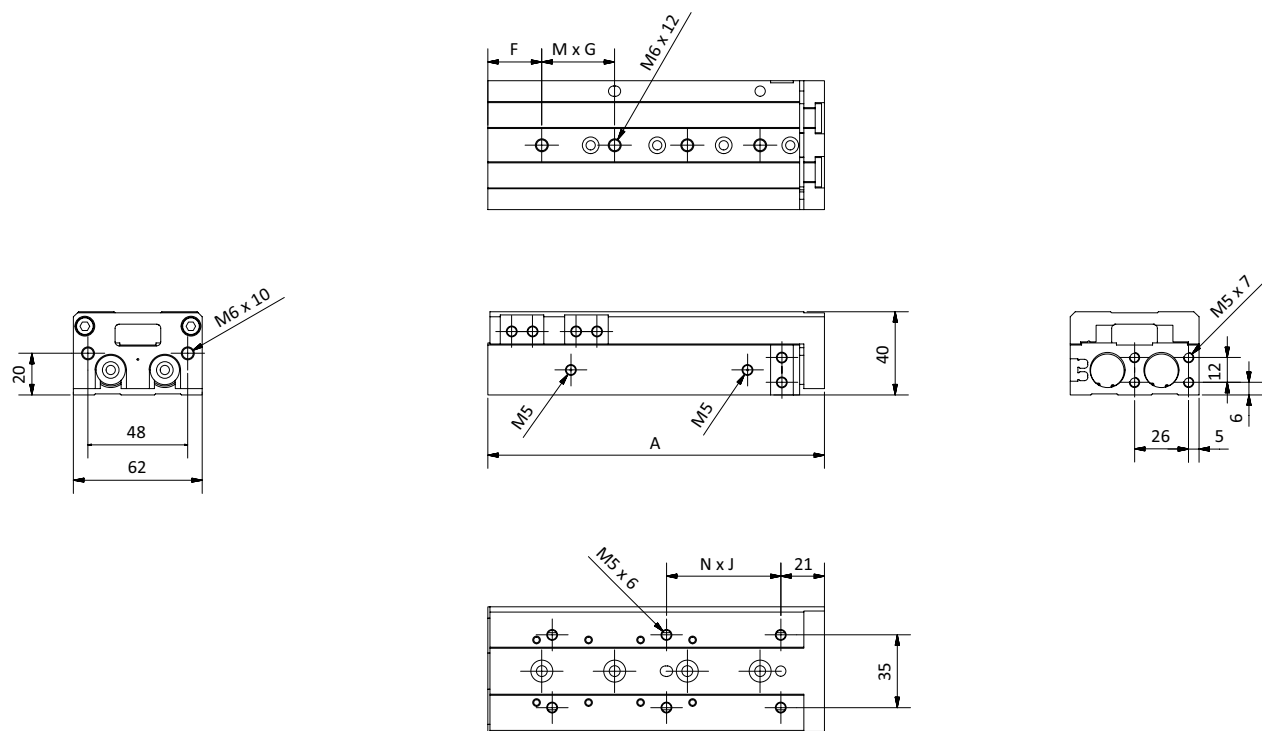
Working pressure [bar]	Cylinder force [N]					
	GR07.208-xx		GR07.216-xx		GR07.220-xx	
	Move out	Move in	Move out	Move in	Move out	Move in
2	20	15	80	60	126	94
3	30	23	121	91	188	141
4	40	30	161	121	251	188
5	51	38	201	151	314	236
6	61	45	241	181	377	283
7	71	53	281	211	400	330
Effective piston surface [mm²]	101	75	402	302	628	471



Dimensions

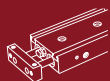


GR07.208-30 | GR07.208-50 | GR07.208-75



GR07.216-30 | GR07.216-50 | GR07.216-75 | GR07.216-100

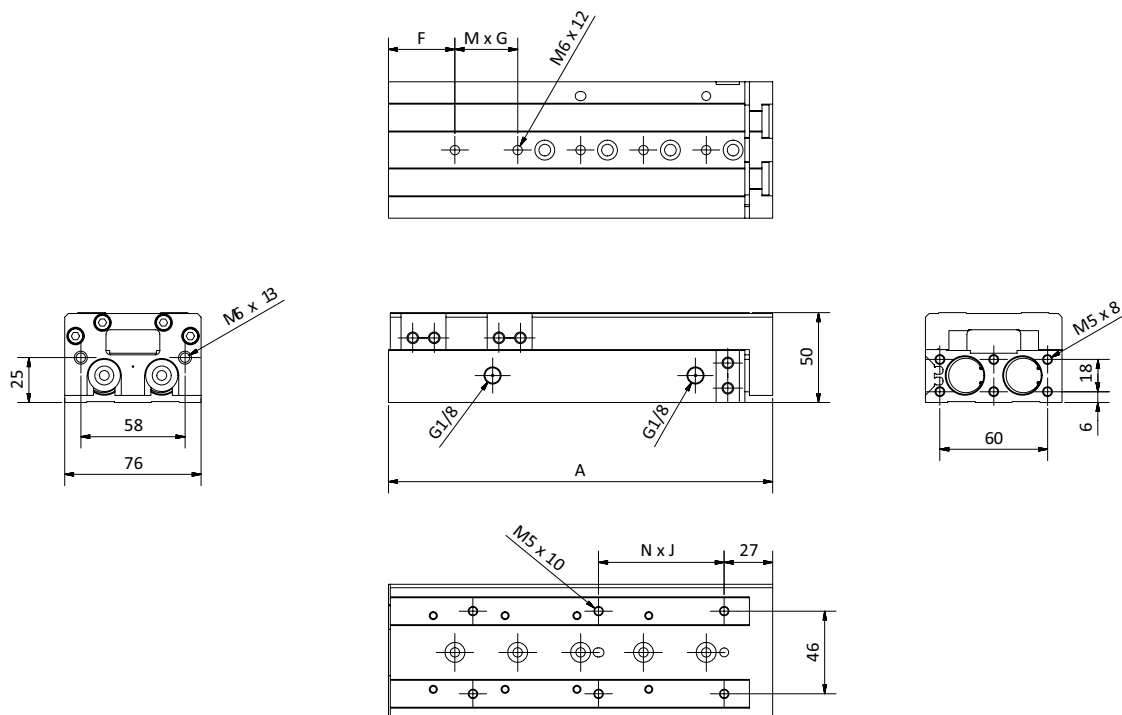
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Linear technology | Guide blocks

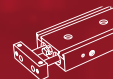
Guide blocks - double-acting

Dimensions



GR07.220-30 | GR07.220-50 | GR07.220-75 | GR07.220-100 | GR07.220-125 | GR07.220-150

Item no.	A [mm]	F [mm]	G [mm]	J [mm]	M [mm]	N [mm]
GR07.208-30	72	13	20	40	3	4
GR07.208-50	108	20	23	38	4	6
GR07.208-75	158	27	28	50	5	6
GR07.216-30	87	16	40	35	2	4
GR07.216-50	112	21	30	30	3	6
GR07.216-75	162	26	35	55	4	6
GR07.216-100	210	39	35	65	5	6
GR07.220-30	97	15	45	50	2	4
GR07.220-50	122	15	35	50	3	6
GR07.220-75	161	19	35	60	4	6
GR07.220-100	214	37	35	70	5	6
GR07.220-125	268	41	38	70	6	8
GR07.220-150	320	19	44	80	7	8



NEW



Guide blocks, extra narrow design - double-acting

Product description

- > Unit to precisely guide gripper components such as sprue grippers or nippers to the workpiece
- > Extra narrow construction for space-saving assembly
- > Optional position monitoring through detection of piston position

Ordering notes

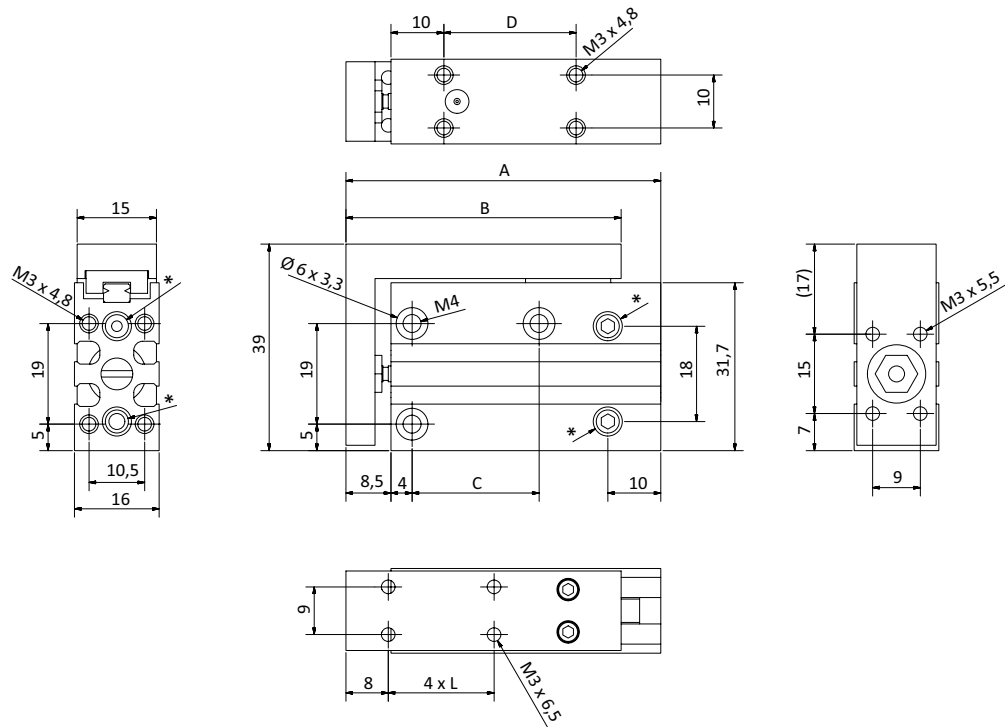
- > Extension cables for sensors:
 - 20.503: 3-Pole M8, straight, length 2,500 mm, open wire
 - 20.507: 3-Pole M8, straight, length 2,000 mm, open wire
 - 20.570: 3-Pole M8, length 1,500 mm, end with plug 3-Pole M8
- > PNP and NPN sensors:
 - C-slot (90° angle): GR04.202P, GR04.202N
 - C-slot (straight, short design): GR04.280P, GR04.280N
- > Other lifts available on request

Technical data

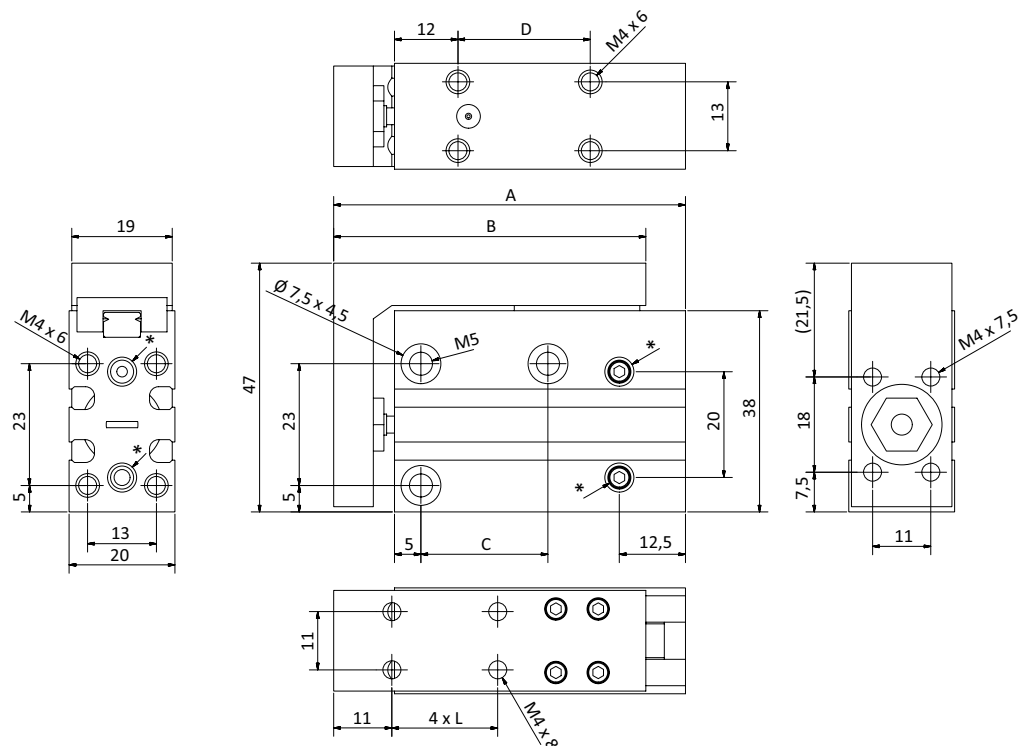
Item no.	Principle of operation	Operating pressure [bar]	Piston diameter [mm]	Lift [mm]	Piston speed [mm/sec]	Operating temperature [°C]	Weight [g]	Accessories
GR07.506-10	Double-acting	1.2 - 7	6	10	50 - 500	-5 - 60	70	Sensor GR04.202N (p.374) Sensor GR04.202P (p.374) Sensor GR04.280N (p.374) Sensor GR04.280P (p.374) Connector cable 20.503 (p.380) Connector cable 20.507 (p.380) Connector cable 20.570 (p.380)
GR07.506-20	Double-acting	1.2 - 7	6	20	50 - 500	-5 - 60	80	
GR07.506-30	Double-acting	1.2 - 7	6	30	50 - 500	-5 - 60	100	
GR07.510-10	Double-acting	1.2 - 7	10	10	50 - 500	-5 - 60	125	
GR07.510-20	Double-acting	1.2 - 7	10	20	50 - 500	-5 - 60	150	
GR07.510-30	Double-acting	1.2 - 7	10	30	50 - 500	-5 - 60	170	
GR07.516-10	Double-acting	1.2 - 7	16	10	50 - 500	-5 - 60	230	
GR07.516-20	Double-acting	1.2 - 7	16	20	50 - 500	-5 - 60	260	
GR07.516-30	Double-acting	1.2 - 7	16	30	50 - 500	-5 - 60	290	

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Dimensions

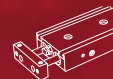


GR07.506-10 | GR07.506-20 | GR07.506-30

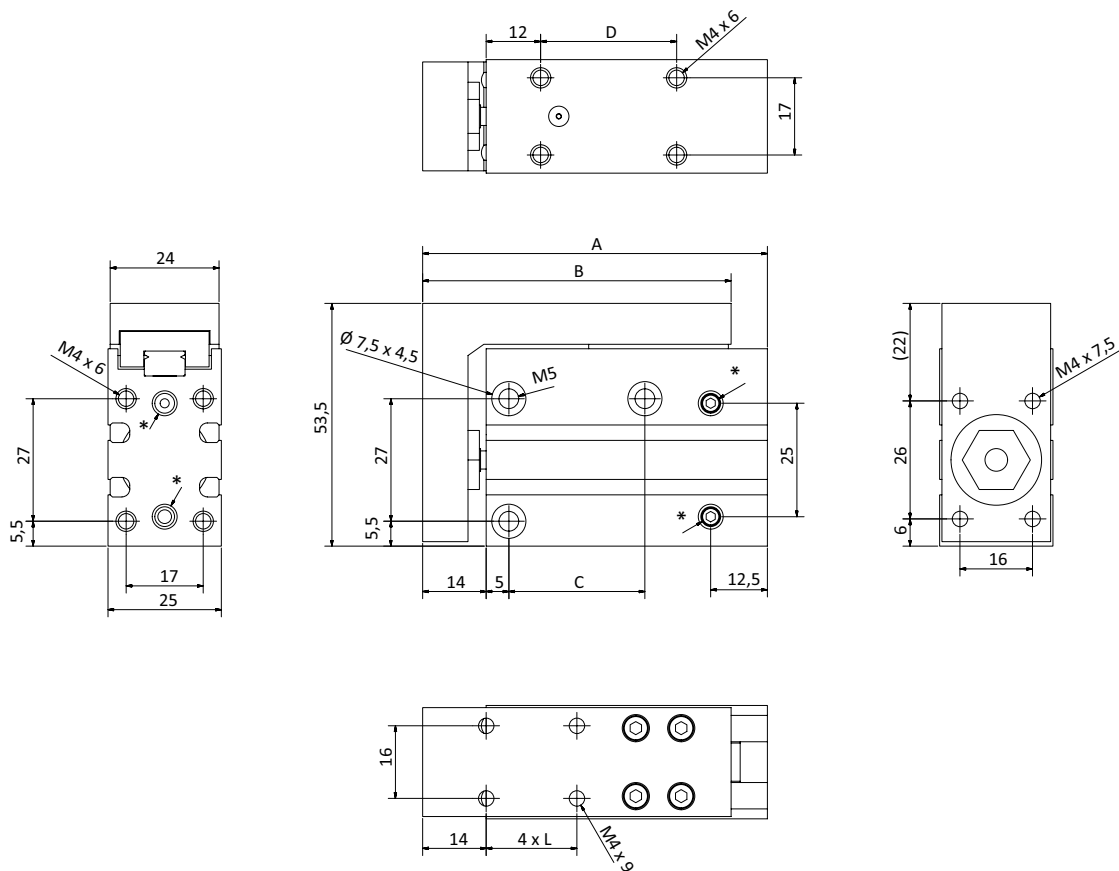


GR07.510-10 | GR07.510-20 | GR07.510-30

* = M5 x 4 depth



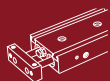
Dimensions



GR07.516-10 | GR07.516-20 | GR07.516-30

* = M5 x 4 depth

Item no.	A [mm]	B [mm]	C [mm]	D [mm]	L [mm]
GR07.506-10	49.5	42	14	15	10
GR07.506-20	59.5	52	24	25	20
GR07.506-30	69.5	62	30	35	30
GR07.510-10	56.5	49	14	15	10
GR07.510-20	66.5	59	24	25	20
GR07.510-30	76.5	69	30	35	30
GR07.516-10	66	58	20	10	10
GR07.516-20	76	68	30	20	20
GR07.516-30	86	78	40	30	30



Pressure plates



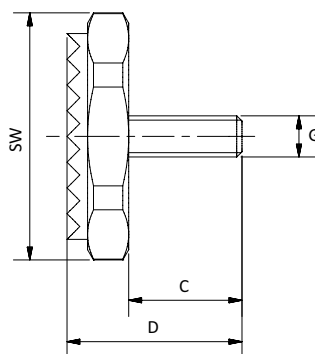
Product description

- > Pressure plates with threads e.g. for screwing into short lifting cylinders as gripping or holding tools
- > GR07.196-198 with grooved natural rubber pad
- > GR07.199 with steel cover

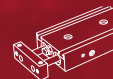
Technical data

Item no.	Weight [g]
GR07.196	12
GR07.197	12
GR07.198	7
GR07.199	2

Dimensions



Item no.	SW	C [mm]	D [mm]	G
GR07.196	22	13	18.5	M5
GR07.197	22	13	18.6	M4
GR07.198	22	7	11.7	M3
GR07.199	12	9	12.3	M3



Fittings for compact cylinders



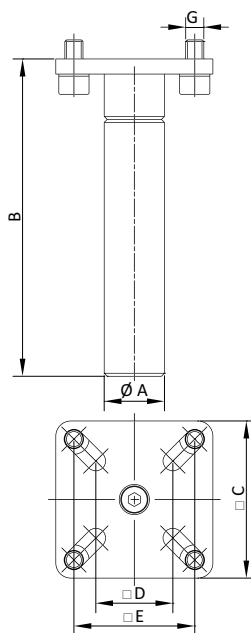
Product description

- > Integration of compact cylinders into gripper systems
- > Compatible with all compact cylinders complying with ISO 21287 standards

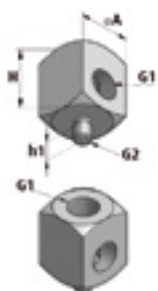
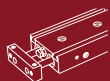
Technical data

Item no.	Weight [g]
GR07.001	125
GR07.002	52

Dimensions



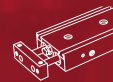
Item no.	Ø A [mm]	B [mm]	□ C [mm]	□ D [mm]	□ E [mm]	G
GR07.001	20	105	52	25.5	40	M6
GR07.002	14	105	29	15.5	20	M4



Technical data

Item no.	Material
GR07.010	Steel nickel-plated
GR07.011	Steel nickel-plated
GR07.012	Steel nickel-plated
GR07.013	Steel nickel-plated

Item no.	G1 (female)	G2 (male)	H [mm]	h1 [mm]	□ A [mm]
GR07.010	G1/8	M5	20	6	16
GR07.011	G1/4	M6	33	10	25
GR07.012	G1/4	M8	33	10	25
GR07.013	G1/4	G1/8	25	10	20



Angle arms for compact cylinders – adjustable



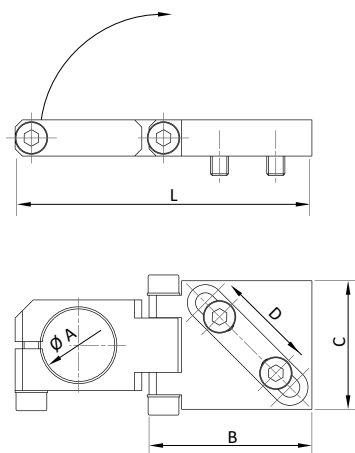
Product description

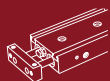
- > Variable mounting of gripper components on compact cylinders or extrusion systems
- > Compatible with all compact cylinders (anti-twist) complying with ISO 21287 Standards

Technical data

Item no.	Weight [g]
GR07.030	73

Dimensions





Mounting plate for guide blocks



Installation on FIPA MLine extrusion system

Product description

- > Mounting of guide blocks to SLine and MLine extrusions

Notes

- > GR07.022: Suitable for GR07.208 on SLine and MLine extrusion systems
- > GR07.024: Suitable for GR07.220 on XLine extrusion system

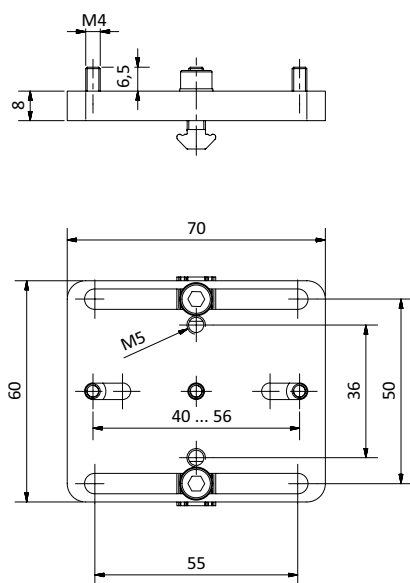
Ordering notes

- > Slot nuts and screws included in scope of delivery

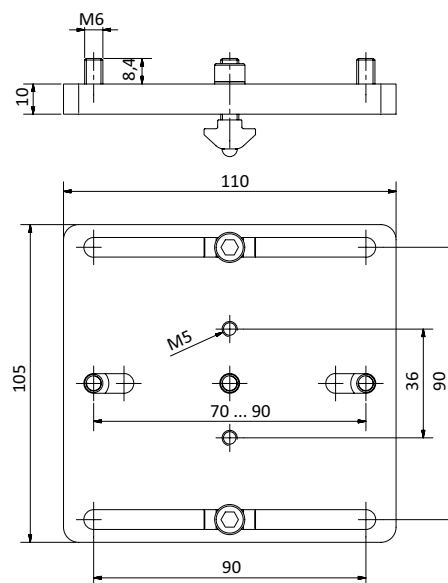
Technical data

Item no.	Weight [g]
GR07.022	71
GR07.024	266

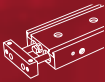
Dimensions



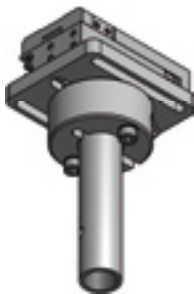
GR07.022



GR07.024



Mounting ring for linear components



Application example guide blocks with mounting ring and mounting plate

Product description

- > Mounting of linear components on extrusion systems via extension tubes with $\varnothing 20$ mm clamp
- > Particularly suitable for guide blocks rails and dual piston cylinders

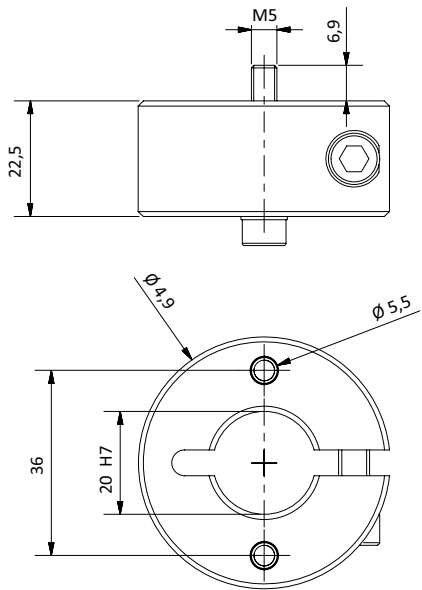
Ordering notes

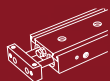
- > Screws included in scope of delivery

Technical data

Item no.	Weight [g]	Accessories
GR07.021	96	Mounting bracket GR07.022 (p.324) Mounting bracket GR07.024 (p.324) Mounting bracket GR07.026 (p.326) Mounting bracket GR07.028 (p.326) Extension tube GR06.022 (p.91) Cross clamp GR02.022 (p.74) Angle clamp GR02.013A (p.70)

Dimensions





Mounting plate for dual-piston cylinders



Assembly on FIPA MLine extrusions

Product description

- > Mounting of dual-piston cylinders on SLine and MLine extrusion systems

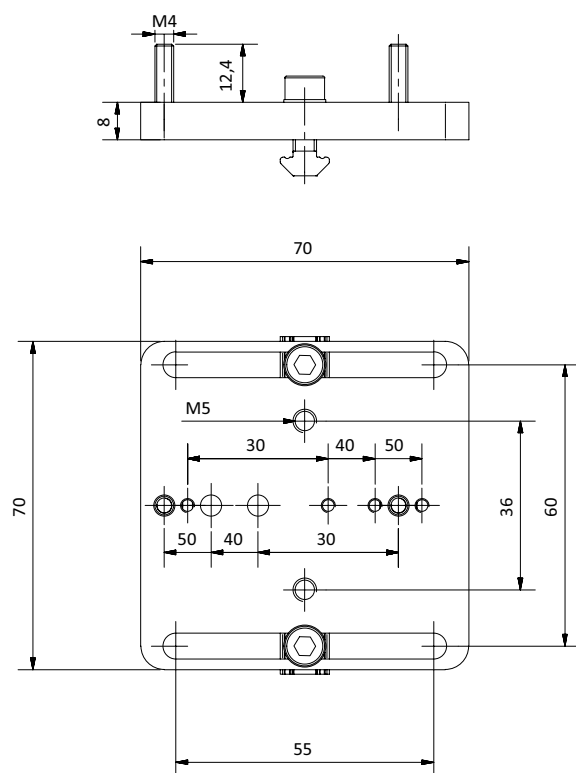
Ordering notes

- > Slot nuts and screws included in scope of delivery

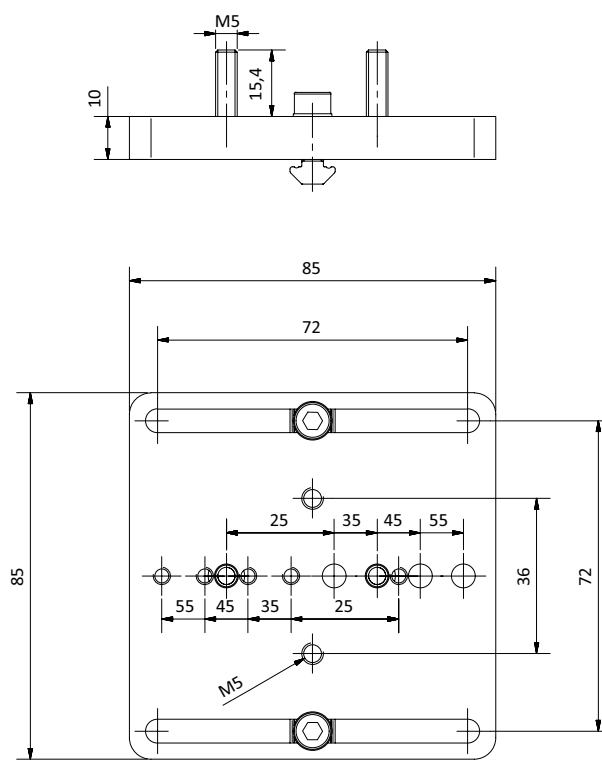
Technical data

Item no.	Suitable for	Weight [g]
GR07.026	GR07.110	102
GR07.028	GR07.115	182

Dimensions



GR07.026



GR07.028