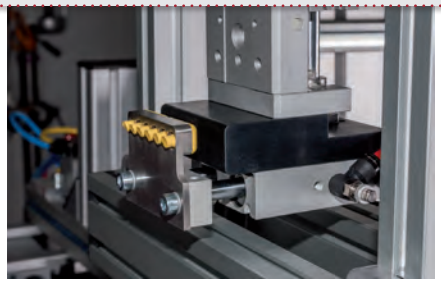
Guide blocks piston diameter 8 mm – double-acting

HIGH PRECISION COMBINATION OF CYLINDER AND LINEAR GUIDING



Combination of guide block and dual-piston cylinder

Product notes

> Unit to precisely guide gripper components such as sprue grippers or nippers to the workpiece
> Double-acting, separate compressed air connections for extraction and rectraction
> Sensors for optional detection of piston position (extracted/retracted)
> Stroke adjusters available on request
> Linear guide blocks can also be used to move gripped workpieces more closely together, to prepare the items for example for pick & place by vacuum grippers
> 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.	**GR07.208-30**	**GR07.208-50**	**GR07.208-75**
Compressed air connection	2xM5	2xM5	2xM5
Operating pressure [bar (psi)]	1.5 - 7 (21.8 - 101.5)	1.5 - 7 (21.8 - 101.5)	1.5 - 7 (21.8 - 101.5)
Piston diameter [mm]	8	8	8
Stroke [mm]	30	50	75
Medium	Filtered and oiled/unoiled air	Filtered and oiled/unoiled air	Filtered and oiled/unoiled air
Operating temperature [°C (°F)]	-5 - 60 (23 - 140)	-5 - 60 (23 - 140)	-5 - 60 (23 - 140)
Weight [g]	190	285	410
Suitable sensors	GR04.202N GR04.202P GR04.280N GR04.280P	GR04.202N GR04.202P GR04.280N GR04.280P	GR04.202N GR04.202P GR04.280N GR04.280P

Theoretical cylinder force depending on the working pressure

	Cylinder force [N]	
	GR07.208-xx	
Working pressure [bar]	Move out	Move in
2	20	15
3	30	23
4	40	30
5	51	38
6	61	45
7	71	53
Effective piston surface [mm²]	101	75

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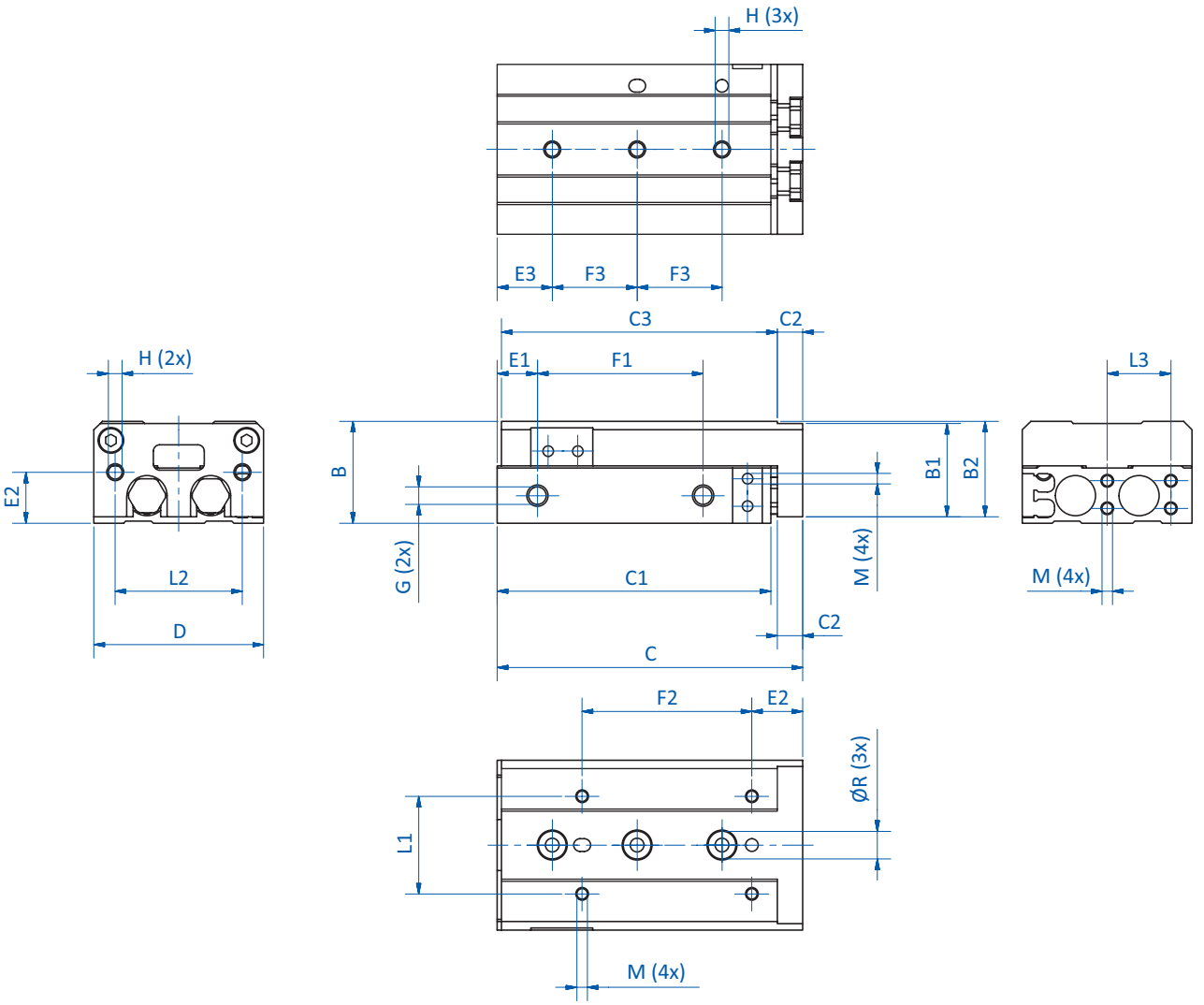
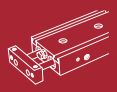
Dimensions


H (3x)
E3
F3
F3
C3
C2
E1
F1
H (2x)
L3
B
B1
B2
E2
G (2x)
M (4x)
L2
C1
M (4x)
D
C2
C
F2
E2
ØR (3x)
L1
M (4x)



Linear technology | Guide blocks

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Item no.	GR07.208-30	GR07.208-50	GR07.208-75
B [mm]	24	24	24
B1 [mm]	22	22	22
B2 [mm]	22.5	22.5	22.5
C [mm]	72 - 102	108 - 158	158 - 233
C1 [mm]	64.5	100.5	150.5
C2 [mm]	6	6	6
C3 [mm]	65	101	151
D [mm]	40	40	40
E1 [mm]	9.5	24.5	38.5
E2 [mm]	12	12	12
E3 [mm]	13	20	27
F1 [mm]	39	60	96
F2 [mm]	40	38	50
F3 [mm]	20	23	28
G	M5	M5	M5
H	M4x8	M4x8	M4x8
L1 [mm]	23	23	23
L2 [mm]	30	30	30
L3 [mm]	15	15	15
M	M3x4	M3x4	M3x4
N	--	--	--
Ø R [mm]	7	7	7