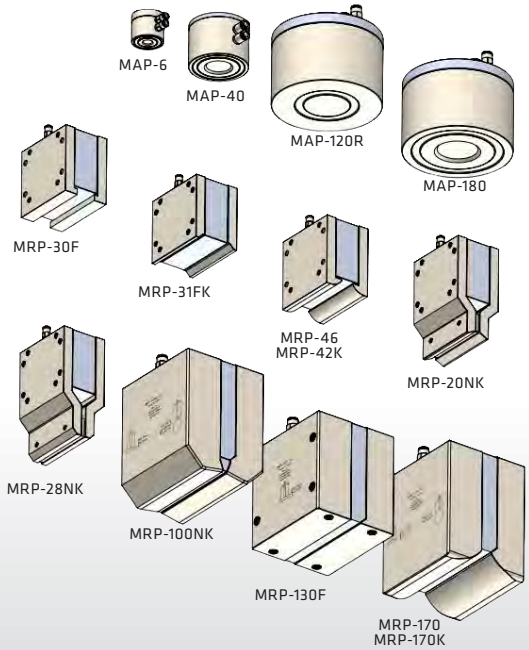
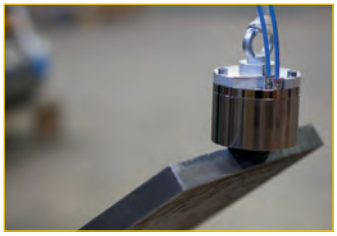
MAP - MRP Series

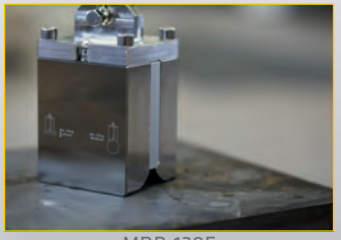


Magnetic Gripper for Automation

These permanent magnets can be individually adapted to a wide variety of tasks using pole shoes.
They get switched within very short cycle time by pneumatic impulse.
The recommended lifting force is specified as WLL (Work Load Lift) and tested with a 3- safety factor (SF=3:1).


MAP-120R


MRP-46


MRP-130F


MRP-31FK

Application

- For round and flat workpieces
- For workpieces with irregular surfaces
- For thin and thick sheets
- Suitable for automation, lifting operations, robotic technology, welding and clamping technology

Features

- Longlived construction
- Maintenance-free
- Highest safety
- Compressed air demand 5 - 8 bar
- IP67
- Special pole shoes for special surface

Technical data

	Dimensions [Ø x H] or [L x W x H]	Load SF* 3:1	From thickness	Load SF* 3:1	at Ø	applicable from Ø	Max. residual gripping capacity (magnet OFF)	No.
	[mm]	WLL [kg]	[mm]	WLL [kg]	[mm]	[mm]	[kg]	
MAP-6	Ø 35 x 35	6	4	-	-	-	0,03	63448
MAP-40	Ø 65 x 50	40	8	-	-	-	0,2	63450
MAP-120R	Ø 120 x 82	120	25	70	200	0	6	64324
MAP-180	Ø 120 x 82	180	25	-	-	-	6	64333

	Load with thickness of:			Load with airgap of:				
	2 mm	4 mm	8 mm	0,1 mm	0,2 mm	0,4 mm	Weight	No.
	[kg]			[kg]			[kg]	
MAP-6	3,5	6	6	2,7	1,5	0,7	0,19	63448
MAP-40	7,2	19	40	26	19	11	0,95	63450
MAP-120R	6,3	20	58	104	92	67	5,80	64324
MAP-180	8,6	27	75	120	92	56	5,80	64333

*Safety factor



MRP-46



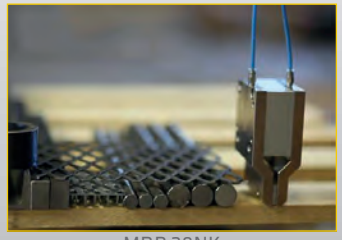
MAP-6

Professional advantages

- Absolutely safe lifting – with a safety factor (SF=3:1) (the breakaway force is 3 times the recommended lifting force WLL)
- Custom-made pole shoes can be fitted to special forms
- Low residual magnetism
- Very short switching time by air pressure pulse
- Low energy consumption



MRP-170



MRP 28NK



MAP-120R



MRP-130-F

Technical data

	Dimensions [Ø x H] or [L × W x H]	▬ Load SF* 3:1	From thickness	● Load SF* 3:1	At Ø	applicable from Ø	Max. residual gripping capacity (magnet OFF)	No.
	[mm]	WLL [kg]	[mm]	WLL [kg]	[mm]	[mm]	[kg]	
MRP-20NK	80 x 55 x 114	20	4	13	14	7	0,1	68278
MRP-28NK	80 x 55 x 126	28	12	-	-	-	1	66289
MRP-30F	80 x 55 x 80	30	12	-	-	-	4	72550
MRP-31FK	80 x 55 x 76	31	4	-	-	-	0,15	76812
MRP-42K	80 x 55 x 82,5	42	12	27	100	20	1	66531
MRP-46	80 x 55 x 82,5	46	12	30	100	20	4	65011
MRP-100NK	120 x 103 x 140	100	25	120	100 - 300	8	5	73198
MRP-130F	120 x 103 x120	130	25	-	-	-	40	65707
MRP-170	120 x 103 x 140	170	25	120	120	25	30	64823
MRP-170K	120 x 103 x 140	170	25	120	120	25	8	76802

	▬ Load with thickness of:			▬ Load with airgap of:				
	2 mm	4 mm	8 mm	0,1 mm	0,2 mm	0,4 mm	Weight	No.
	[kg]			[kg]			[kg]	
MRP-20NK	14	20	20	14	8	3,6	2,4	68278
MRP-28NK	9,7	19	27	14	8	3,9	2,60	66289
MRP-30F	9	21	27	23	19	14	1,9	72550
MRP-31FK	17	31	31	26	20	10	1,74	76812
MRP-42K	11	28	37	29	20	10	1,9	66531
MRP-46	12	31	41	32	22	11	1,90	65011
MRP-100NK	18	73	97	94	83	58	11	73198
MRP-130F	15	39	100	114	102	86	9,50	65707
MRP-170	15	48	125	153	134	93	10,7	64823
MRP-170K	15	48	125	153	134	92	10,7	76802

*Safety factor