



Pot magnets



Function

Pot magnets are powerful and flexible handling tools that are used across all industry sectors for the transportation, tensioning, fixation, assembly and lifting of ferrous work pieces. They are also known as flat holding magnets or flat grippers.

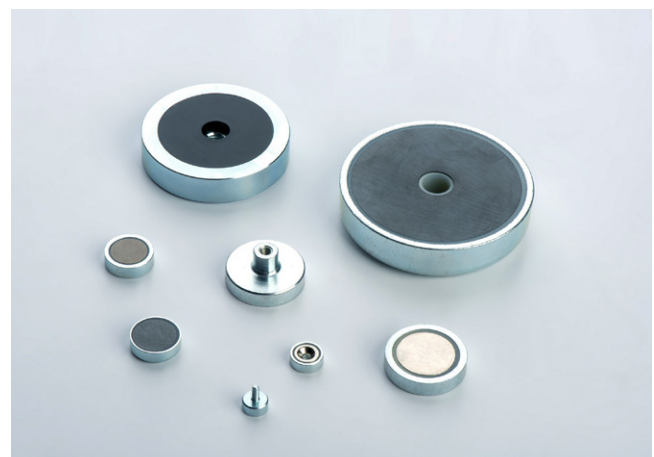
Pot magnets are magnet systems with one exposed adhesion side and the other sides shielded by a galvanized steel pot. This design allows for the magnetic forces to concentrate on the adhesive side, which gives the pot magnet a much more powerful adhesion force than a single magnet.

Use

While pot magnets usually feature large diameters, bar holding magnets serve a similar function and are used in applications that require a great height. The choice between these two magnet systems ultimately depends on the specific application, the available space and the handling requirements.

Product range

Our standard range comprises a wide selection of different types of pot magnets made of hard ferrite, neodymium-iron-boron (NdFeB) or samarium-cobalt (SmCo).

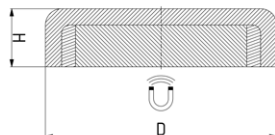


Product range

Pot magnets made of hard ferrite (HF)

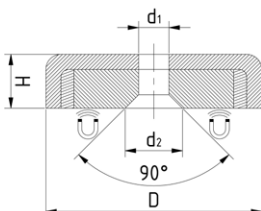
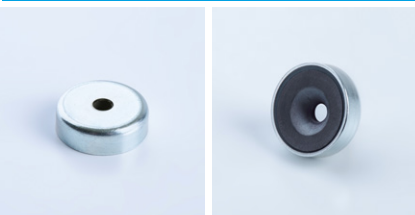


Pot magnet made of hard ferrite, galvanized



Part number	D mm	H mm	Holding force* N	Weight g	Temperature °C
M17040000B274U	10 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	4	2	200
M17040100B274U	13 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	10	3	200
M17040200B274U	16 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	18	5	200
M17040300B274U	20 ^{+0.1/-0.1}	6 ^{+0.2/-0.1}	30	10	200
M17040400B274U	25 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	40	18	200
M17040500B274U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	80	29	200
M17041200B274U	36 ^{+0.2/-0.1}	7.7 ^{+0.3/-0.2}	100	39	200
M17040600B274U	40 ^{+0.2/-0.1}	8 ^{+0.4/-0.2}	125	55	200
M17041300B274U	47 ^{+0.2/-0.1}	9 ^{+0.5/-0.2}	180	84	200
M17040700B274U	50 ^{+0.2/-0.1}	10 ^{+0.5/-0.2}	220	102	200
M17041400B274U	57 ^{+0.2/-0.1}	10.5 ^{+0.5/-0.2}	280	141	200
M17040800B274U	63 ^{+0.3/-0.1}	14 ^{+0.5/-0.2}	350	226	200
M17040900B274U	80 ^{+0.3/-0.1}	18 ^{+0.5/-0.2}	600	468	200
M17041000B274U	100 ^{+0.5/-0.1}	22 ^{+0.5/-0.2}	900	915	200

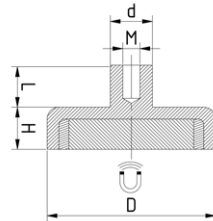
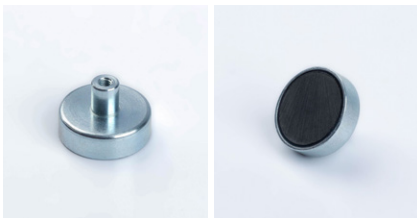
Pot magnet made of hard ferrite with bore and counterbore, galvanized



Part number	D mm	H mm	d1 mm	d2 mm	Holding force* N	Weight g	Temperature °C
M17043100B275U	16 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	3.5 ^{+0.2/-0.2}	6.5 ^{+1.5/-0}	14	4	200
M17043200B275U	20 ^{+0.1/-0.1}	6 ^{+0.2/-0.1}	4.1 ^{+0.4/-0}	9.4 ^{+1/-0}	27	9	200
M17043300B275U	25 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	5.5 ^{+0.2/-0.2}	11.5 ^{+1/-0}	36	17	200
M17043400B275U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	5.5 ^{+0.25/-0.25}	11.5 ^{+1/-0}	72	27	200
M17043500B275U	40 ^{+0.2/-0.1}	8 ^{+0.4/-0.2}	5.5 ^{+0.2/-0.2}	12.5 ^{+1/-0}	90	52	200

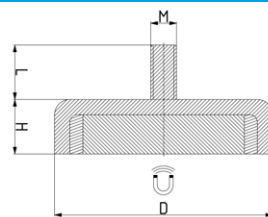
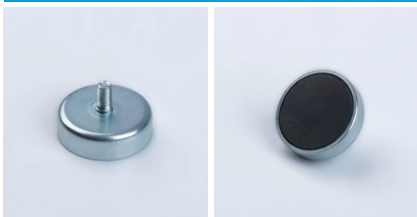
* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

Pot magnet made of hard ferrite with threaded bush, galvanized



Part number	D mm	H mm	L mm	d mm	Thread M	Holding force* N	Weight g	Temperature °C
M17045000B275U	10 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	7 ^{+0.3/-0.2}	6 ^{+0.1/-0.1}	M3	4	3	200
M17045100B275U	13 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	7 ^{+0.3/-0.2}	6 ^{+0.1/-0.1}	M3	10	4	200
M17045200B275U	16 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	7 ^{+0.3/-0.2}	6 ^{+0.1/-0.1}	M3	18	6	200
M17045300B275U	20 ^{+0.1/-0.1}	6 ^{+0.2/-0.1}	7 ^{+0.3/-0.2}	6 ^{+0.1/-0.1}	M3	30	11	200
M17045400B275U	25 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	8 ^{+0.5/-0.3}	8 ^{+0.2/-0.2}	M4	40	20	200
M17045500B275U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	8 ^{+0.5/-0.3}	8 ^{+0.2/-0.2}	M4	80	31	200
M17046200B275U	36 ^{+0.2/-0.1}	7.7 ^{+0.3/-0.2}	8.3 ^{+0.5/-0.3}	8 ^{+0.2/-0.2}	M4	100	42	200
M17045600B275U	40 ^{+0.2/-0.1}	8 ^{+0.3/-0.2}	10 ^{+0.5/-0.3}	10 ^{+0.2/-0.2}	M5	125	59	200
M17046400B275U	47 ^{+0.2/-0.1}	9 ^{+0.4/-0.2}	8 ^{+0.6/-0.3}	8 ^{+0.2/-0.2}	M4	180	86	200
M17046600B275U	50 ^{+0.2/-0.1}	10 ^{+0.4/-0.2}	8.5 ^{+0.6/-0.3}	8 ^{+0.2/-0.2}	M4	220	105	200
M17046500B275U	57 ^{+0.2/-0.1}	10.5 ^{+0.5/-0.2}	8 ^{+0.7/-0.3}	8 ^{+0.2/-0.2}	M4	280	147	200
M17197100B275U	57 ^{+0.2/-0.1}	10.5 ^{+0.5/-0.2}	12 ^{+0.7/-0.3}	12 ^{+0.2/-0.2}	M6	280	153	200
M17045800B275U	63 ^{+0.3/-0.1}	14 ^{+0.5/-0.2}	16 ^{+0.7/-0.3}	15 ^{+0.2/-0.2}	M8	350	245	200
M17045900B275U	80 ^{+0.3/-0.1}	18 ^{+0.5/-0.2}	16 ^{+0.7/-0.3}	20 ^{+0.2/-0.2}	M10	600	499	200
M17046000B275U	100 ^{+0.5/-0.1}	22 ^{+0.5/-0.2}	21 ^{+0.7/-0.3}	22 ^{+0.2/-0.2}	M12	900	956	200
M17046100B275U	125 ^{+0.5/-0.1}	26 ^{+0.5/-0.2}	24 ^{+0.7/-0.3}	25 ^{+0.2/-0.2}	M14	1300	1720	200

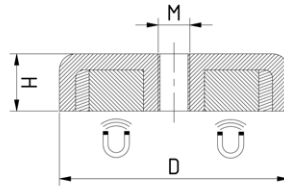
Pot magnet made of hard ferrite with external thread, galvanized



Part number	D mm	H mm	L mm	Thread M	Holding force* N	Weight g	Temperature °C
M17047000B278U	10 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	7 ^{+0.5/-0.5}	M3	4	2	200
M17047100B278U	13 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	7 ^{+0.5/-0.5}	M3	10	3	200
M17047200B278U	16 ^{+0.1/-0.1}	4.5 ^{+0.2/-0.1}	7 ^{+0.5/-0.5}	M3	18	5	200
M17047300B278U	20 ^{+0.1/-0.1}	6 ^{+0.2/-0.1}	7 ^{+0.5/-0.5}	M3	30	10	200
M17047400B278U	25 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	8 ^{+0.5/-0.5}	M4	40	19	200
M17047500B278U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	8 ^{+0.5/-0.5}	M4	80	30	200
M17196400B278U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	12 ^{+0.5/-0.5}	M6	80	31	200
M17196500B278U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	10 ^{+0.5/-0.5}	M8	80	32	200
M17196600B278U	47 ^{+0.2/-0.1}	9 ^{+0.5/-0.2}	8 ^{+0.5/-0.5}	M6	180	85	200

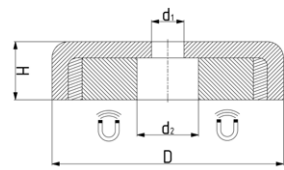
* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

Pot magnet made of hard ferrite with internal thread, galvanized



Part number	D mm	H mm	Thread M	K mm	Holding force* N	Weight g	Temperature °C
M17135100B275U	32 ^{+0.1/-0.1}	7 ^{+0.3/-0.2}	M4	5,2	75	29	200
M17135200B275U	40 ^{+0.2/-0.1}	8 ^{+0.4/-0.2}	M4	5,2	90	53	200
M17197500B275U	50 ^{+0.2/-0.1}	10 ^{+0.5/-0.2}	M8	12	170	94	200
M17044300B275U	63 ^{+0.3/-0.1}	14 ^{+0.5/-0.2}	M8	13	290	206	200
M17044500B275U	80 ^{+0.3/-0.1}	18 ^{+0.5/-0.2}	M10	14,5	550	466	200

Pot magnet made of hard ferrite with cylinder bore, galvanized

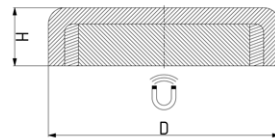


Part number	D mm	H mm	d1 mm	d2 mm	Holding force* N	Weight g	Temperature °C
M17043600B275U	50 ^{+0.2/-0.1}	10 ^{+0.5/-0.2}	8.5 ^{+0.2/-0.2}	22	180	85	200
M17043700B275U	63 ^{+0.3/-0.1}	14 ^{+0.5/-0.2}	6.5 ^{+0.2/-0.2}	24	290	197	200
M17043800B275U	80 ^{+0.3/-0.1}	18 ^{+0.5/-0.2}	6.5 ^{+0.2/-0.2}	11,5	540	458	200
M17043900B275U	83 ^{+0.3/-0.1}	18 ^{+0.5/-0.2}	10.5 ^{+0.2/-0.2}	32	600	444	200
M17044000B275U	100 ^{+0.5/-0.1}	22 ^{+0.5/-0.2}	10.5 ^{+0.2/-0.2}	34	680	815	200

* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

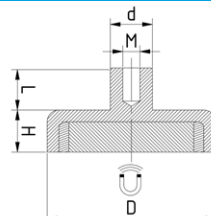
Pot magnets made of Neodymium-Iron-Boron (NdFeB)

Pot magnet made of NdFeB, galvanized



Part number	D mm	H mm	Holding force* N	Weight g	Temperature °C
M17063000B974U	6 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	5	1	80
M17063100B974U	8 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	13	2	80
M17063200B974U	10 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	25	2,5	80
M17063300B974U	13 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	60	4	80
M17063400B974U	16 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	95	6	80
M40012400B290N	20 ^{+0.2/-0.2}	3.5 ^{+0.1/-0.1}	110	8	80
M17063500B974N	20 ^{+0.2/-0.2}	6 ^{+0.2/-0.2}	140	16	80
M17063600B974N	25 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	200	27	80
M17063700B974N	32 ^{+0.3/-0.3}	7 ^{+0.2/-0.2}	350	42	80
M40003000B290N	42 ^{+0.3/-0.3}	9 ^{+0.2/-0.2}	660	104	80

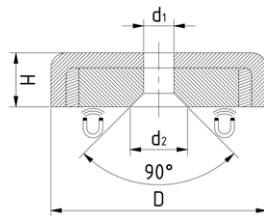
Pot magnet made of NdFeB with threaded bush, galvanized



Part number	D mm	H mm	L mm	d mm	Thread M	Holding force* N	Weight g	Temperature °C
M17077100B975U	8 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	M3	13	3	80
M17077200B975U	10 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	M3	25	4	80
M17077300B975U	13 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	M3	60	5	80
M17077400B975U	16 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	M4	95	7	80
M40011000B294N	20 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	8 ^{+0.2/-0.2}	M4	140	16	80
M17077600B975N	25 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	8 ^{+0.2/-0.2}	M4	200	28	80
M17077700B973N	32 ^{+0.3/-0.3}	7 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	10 ^{+0.2/-0.2}	M5	350	45	80

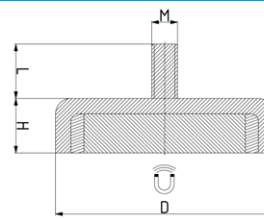
* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

Pot magnet made of NdFeB with bore and counterbore, galvanized



Part number	D mm	H mm	d1 mm	d2 mm	Holding force* N	Weight g	Temperature °C
M40003400B297N	13 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	3.5 ^{+0.1/-0.1}	6,5 ^{+0.1/-0.1}	40	4	80
M17130000B296N	16 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	3.5 ^{+0.1/-0.1}	6 ^{+0.1/-0.1}	75	6	80
M40011500B292N	20 ^{+0.2/-0.2}	6 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	8 ^{+0.2/-0.2}	105	13	80
M17130200B296N	25 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	8 ^{+0.2/-0.2}	160	22	80
M40012600B292N	32 ^{+0.3/-0.3}	7 ^{+0.2/-0.2}	5.5 ^{+0.1/-0.1}	10 ^{+0.2/-0.2}	310	34	80
M40011600B292N	40 ^{+0.3/-0.3}	8 ^{+0.2/-0.2}	5.5 ^{+0.1/-0.1}	10 ^{+0.2/-0.2}	500	80	80

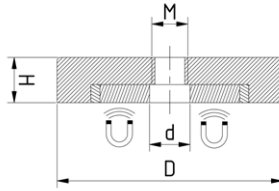
Pot magnet made of NdFeB with external thread, galvanized



Part number	D mm	H mm	L mm	Thread M	Holding force* N	Weight g	Temperature °C
M17197700B978U	10 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	8	M4	25	3	80
M17079100B978U	13 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	8	M5	60	5	80
M17079200B978U	16 ^{+0.1/-0.1}	4.5 ^{+0.1/-0.1}	8	M6	95	8	80
M40012500B293N	20 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	8	M6	140	15	80
M17079400B978N	25 ^{+0.2/-0.2}	7 ^{+0.1/-0.1}	10	M6	200	27	80
M17079500B978N	32 ^{+0.3/-0.3}	7 ^{+0.2/-0.2}	10	M6	350	42	80
M40003100B298N	40 ^{+0.3/-0.3}	9 ^{+0.2/-0.2}	8	M6	670	83	80

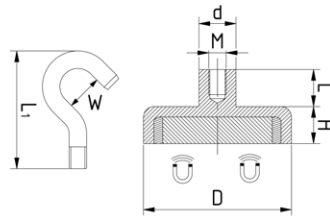
* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

Pot magnet made of NdFeB with internal thread, galvanized



Part number	D mm	H mm	d mm	Thread M	Holding force* N	Weight g	Temperature °C
M40003200B297N	20 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	4 ^{+0.1/-0.1}	M3	110	20	80
M40003300B297N	25 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	5 ^{+0.2/-0.2}	M4	150	24	80
M40011100B292N	32 ^{+0.3/-0.3}	7 ^{+0.2/-0.2}	5,5 ^{+0.2/-0.2}	M5	330	40	80
M40011200B292N	40 ^{+0.3/-0.3}	8 ^{+0.2/-0.2}	10,5 ^{+0.2/-0.2}	M5	500	74	80
M40011300B292N	50 ^{+0.3/-0.3}	10 ^{+0.2/-0.2}	9,5 ^{+0.2/-0.2}	M8	800	140	80
M40011400B292N	63 ^{+0.3/-0.3}	14 ^{+0.2/-0.2}	10,7 ^{+0.2/-0.2}	M10	1100	315	80

Pot magnet made of NdFeB with hook, nickel-plated

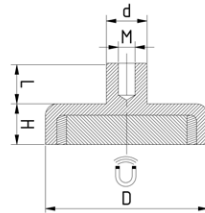


Part number	D mm	H mm	L mm	d mm	Thread M	Holding force* N	Weight g	Temperature °C
M40003500B299N	10 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	6 ^{+0.1/-0.1}	M3	25	4	80
M40003600B299N	13 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	6 ^{+0.2/-0.2}	M3	60	6	80
M40003700B299N	16 ^{+0.2/-0.2}	4.5 ^{+0.1/-0.1}	7 ^{+0.2/-0.2}	8 ^{+0.2/-0.2}	M4	95	9	80
M40003800B299N	20 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	5 ^{+0.2/-0.2}	8 ^{+0.2/-0.2}	M4	140	16	80
M40003900B299N	25 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	6 ^{+0.2/-0.2}	8 ^{+0.2/-0.2}	M4	200	28	80
M40004000B299N	32 ^{+0.3/-0.3}	8 ^{+0.2/-0.2}	6 ^{+0.2/-0.2}	10 ^{+0.2/-0.2}	M5	350	45	80
M40004100B299N	40 ^{+0.3/-0.3}	9 ^{+0.2/-0.2}	7 ^{+0.2/-0.2}	10 ^{+0.2/-0.2}	M6	490	89	80
M40004200B299N	50 ^{+0.3/-0.3}	9 ^{+0.2/-0.2}	10 ^{+0.2/-0.2}	10 ^{+0.2/-0.2}	M8	880	135	80

* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

Pot magnets made of Samarium-Cobalt (SmCo)

Pot magnet made of SmCo with threaded bush, galvanized



Part number	D mm	H mm	L mm	d mm	Thread M	Holding force* N	Weight g	Temperature °C
M17075000B774U	6 ^{+0.1} / _{-0.1}	4.5 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	6 ^{+0.1} / _{-0.1}	M3	5	2	200
M17075100B774U	8 ^{+0.1} / _{-0.1}	4.5 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	6 ^{+0.1} / _{-0.1}	M3	11	3	200
M17075200B774U	10 ^{+0.1} / _{-0.1}	4.5 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	6 ^{+0.1} / _{-0.1}	M3	20	4	200
M17075300B774U	13 ^{+0.1} / _{-0.1}	4.5 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	6 ^{+0.1} / _{-0.1}	M3	40	6	200
M17075400B774U	16 ^{+0.1} / _{-0.1}	4.5 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	6 ^{+0.1} / _{-0.1}	M4	60	7	200
M17075500B774U	20 ^{+0.1} / _{-0.1}	6 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	8 ^{+0.2} / _{-0.2}	M4	90	16	200
M17075600B774U	25 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	7 ^{+0.2} / _{-0.2}	8 ^{+0.2} / _{-0.2}	M4	150	28	200
M17075700B774U	32 ^{+0.1} / _{-0.1}	7 ^{+0.2} / _{-0.2}	8.5 ^{+0.2} / _{-0.2}	10 ^{+0.2} / _{-0.2}	M5	220	47	200

* The holding forces are ascertained using an even polished plate of ST 37 material with a thickness of 10 mm by the vertical withdrawal of the magnet at room temperature. Small cracks in the magnet material do not affect the holding force. Deviations up to minus 10 % are possible in some instances. The data given relates to minimum values which are normally exceeded.

- ➞ Contact us if you need other dimensions or types. Other versions of pot magnets are also quickly available on request.
- ➞ You need powerful pot magnets for use on delicate surfaces? For that we recommend our rubber coated magnet systems made of NdFeB, that we present in an own product information.
- ➞ In addition to our standard program, we also offer custom solutions. We will be happy to advise you on this.

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Contact

thyssenkrupp Magnettechnik
 Branch of thyssenkrupp Schulte GmbH
 Johanniskirchstr. 71
 45329 Essen, Germany
 T: 0800 624 6387 (from Germany), +49 201 946161-558 (international)
 F: +49 201 946161-555
www.thyssenkrupp-magnettechnik.com
magnet@thyssenkrupp-materials.com