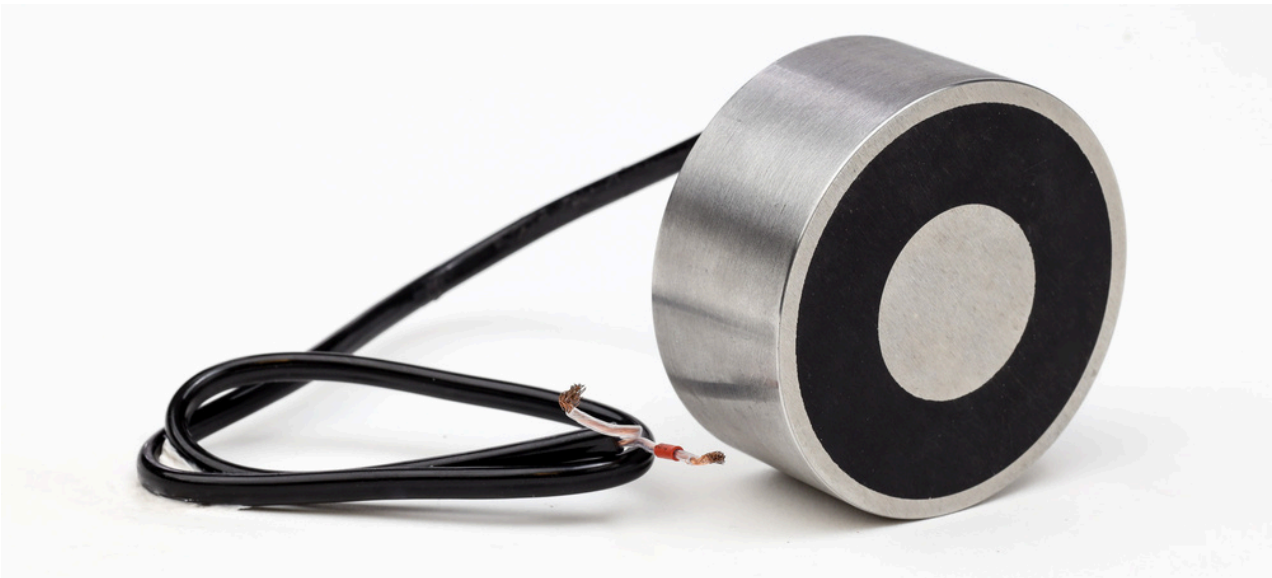


# MAGMA MAGNETIC TECHNOLOGIES LTD.

## PRODUCT CATALOG





## MAGMA MAGNETIC TECHNOLOGIES: A WORLD OF MAGNETIC SOLUTIONS

Welcome to Magma Magnetic Technologies, your premier source for permanent magnets, electromagnets, and innovative magnetic solutions across various industries.

Below is our product catalog, showcasing a wide range of magnets. It reflects over 40 years of extensive knowledge and experience in the field.



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# PERMANENT MAGNETS

Permanent magnets are classified primarily according to the material they are made of. Industrial magnets are mainly made of neodymium, samarium cobalt, alnico and ferrite (ceramic magnets).

## Neodymium Magnets

(NdFeB)

- Heat resistance: from 80°C to 240°C
- Strong magnets used in a wide variety of applications



## Samarium Cobalt Magnets

(SmCo)

- Heat resistance: from 250°C to 350°C
- Strong and heat-resistant magnets are used in applications that require high heat resistance, such as industrial furnaces, gas turbine engines, and more.



## Alnico Magnets

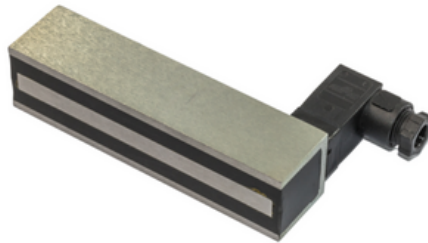
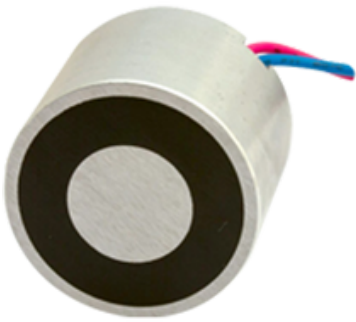
Alnico-type magnets consist mainly of a mixture of metals, such as aluminum, nickel, cobalt, and iron, and are suitable for working at high temperatures, up to 550°C.



# ELECTROMAGNETS

Strong and sophisticated electromagnets allow total control of the magnetic field. Unlike permanent magnets, electromagnets operate using an electric current that allows the magnetic field to be turned on and off and to control its strength as needed.

You have a wide variety of coils and cores at your disposal.



# POT MAGNETS

Pot magnets are used to hold metals. A permanent magnet is installed inside a metal cup, with the active magnetic side facing down.

A wide variety of sizes and shapes, resistant to heat and corrosion.



# Attention Please!



The magnet data in the catalog is only general and can change depending on the quality of the magnet and its use.

You should consult Magma's expert team before choosing the right magnet for your specific application.



## Unique Magnetic Solutions:

Magma Magnetic Technologies specializes in designing and developing customized magnetic solutions for every need.

Our experts will be happy to assist you in choosing the perfect magnetic solution.



# Additional Services:

Magnetic Simulation

Magnetic Consulting

Magnetic R&D

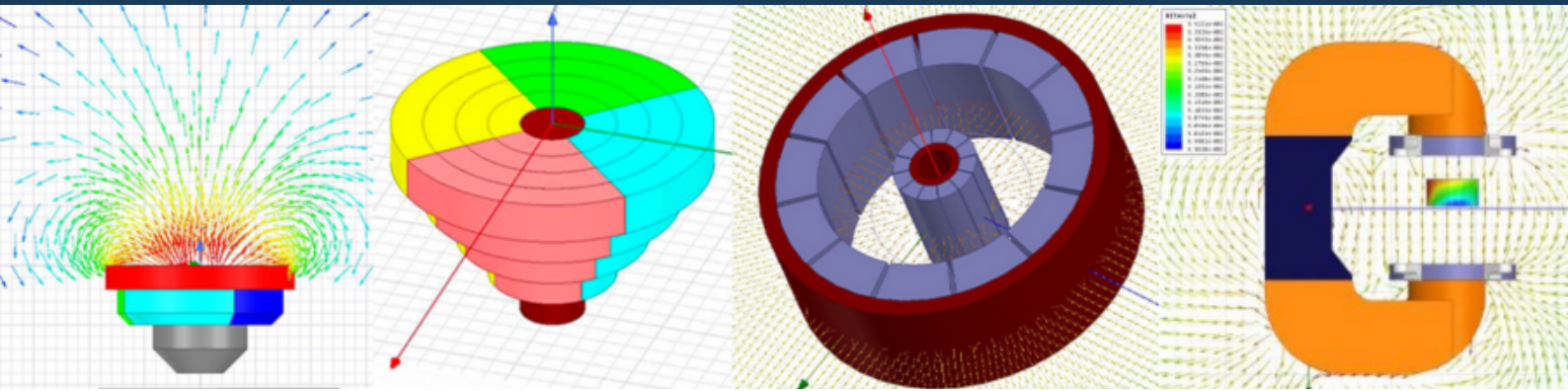
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[Magnetic Force Calculator](#)

**Magma** – *The right source for all your magnetic needs*

# NEODYMIUM MAGNETS

(NdFeB)







# Disk-Shaped Neodymium Magnets

Part Number	Diameter (mm)	Thickness (mm)	Coating	Grade	Pull (Kg)
NDDR002001A	2	1	Zn	N35	0.1
NDDR002002C	2	2	Ni	N35	0.2
NDDR003001A	3	1	Zn	N35	0.15
NDDR003002B	3	2	Zn	N40	0.34
NDDR003003A	3	3	Zn	N40	0.51
NDDR004002B	4	2	Zn	N48	0.53
NDDR004001B	4.76	1.59	Ni	N42	0.45
NDDR004003B	4	3	Ni	N50	0.85
NDDR004004D	4	4	Zn	N35	0.79
NDDR005002A	5	2	Ni	N35	0.49
NDDR005002E	5	2.5	Zn	N35	0.62
NDDR005003D	5	3	Ni	N35	0.74
NDDR006001H	6	1	Ni	N35	0.3
NDDR006001A	6	1.8	Ni	N35	0.53
NDDR006002A	6	2	Zn	N35	0.59
NDDR006004B	6	4	Zn	N35	1.19
NDDR006006A	6	6	Zn	N35	1.78
NDDR006006B	6.3	6	Zn	N40	2.13
NDDR007002A	7	2	Zn	N35	0.69
NDDR008002A	8	2	Zn	N35	0.79
NDDR008003A	8	3	Zn	N35	1.19
NDDR008004B	8	4	Zn	N35	1.58
NDDR008005B	8	5	Zn	N35	1.98
NDDR009003A	9	3	Zn	N35	1.33

## Continued - Disk-Shaped

Part Number	Diameter (mm)	Thickness (mm)	Coating	Grade	Pull (Kg)
NDDR010002C	10	2	Zn	N35	0.99
NDDR010004A	10	4	Zn	N35	1.98
NDDR010005B	10	5	Ni	N35	2.47
NDDR010008B	10	8	Zn	N35	3.95
NDDR012003A	12	3	Zn	N35	1.78
NDDR012004A	12	4	Zn	N35	2.37
NDDR012005A	12	5	Zn	N35	2.96
NDDR012006A	12	6	Ni	N45	3.56
NDDR015003A	15	3	Zn	N35	2.22
NDDR015004B	15	4	Zn	N35	2.96
*NDDR015005B	15	5	Zn	N48H	3.71
NDDR018003A	18	3	Zn	N35	2.67
NDDR007004D	7	4	Zn	N35	1.38
NDDR010001C	10	1	Zn	N35	0.49
NDDR005004C	5	4	Zn	N35	0.99
NDDR005005E	5	5	Zn	N35	1.24
NDDR020003AMD	20	3	Zn	N35	2.96
NDDR020005AMD	20	5	Zn	N35	4.94
NDDR022007AMD	22	7	Zn	N40	8.68
NDDR025012AMD	25	12	Zn	N40	16.92

**[For the full list of Disk-Shaped Neodymium Magnets – Click Here](#)**



## Block-Shaped Neodymium Magnets

Part Number	Length (mm)	Width (mm)	Thickness (mm)	Grade	Coating	Pull (Kg)
NDBR007005B	7	5	2	N35	Zn	0.66
NDBR007005E	7	5	3	N35	Ni	0.99
NDBR010010A	10	10	5	N35	Zn	2.78
NDBR020015F	20	15	4	N35	Zn	3.86
NDBR020015A	20	15	4	N35	Ni	3.86
NDBR020015G	20	15	5	N35	Zn	4.83
NDBR023008A	23	8	8	N35	Zn	6.05
NDBR024010A	24	10	3	N35	Zn	2.59
NDBR028010A	28	10	3	N35	Zn	2.8
NDBR028010B	28	10	5	N35	Zn	4.66
NDBR035021C	35	21	10	N35	Zn	15.11
NDBR035021A	35	21	21	N35	Zn	31.74
NDBR037020B	37	20	3	N35	Ni	4.55
NDBR040005A	40	5.3	2.5	N35	Ni	2.03
NDBR050035A	50	35	35	N35	Zn	81.62
NDBR080080A	80	80	15	N35	Zn	66.9
NDBR080080B	80	80	20	N35	Zn	89.2
NDBR010010BMD	10	10	3	N35	Zn	1.67

**[For the full list of Block-Shaped Neodymium Magnets – Click Here](#)**



# Block-Shaped Neodymium magnets with Hole

Part Number	Item Description	Direction of Magnetization 1
NDBH012010B	N52/Zn B 12.8x10x2	Axially-length
NDBH012012A	N35/NiCuNi B 12x12x4	Axially-thickness
NDBH012012B	N42/NiCuNi B 12x12x4	Axially-thickness
NDBH012012C	N35/NiCuNi B 12x12x8x4	Axially-thickness
NDBH012012D	N38/NiCuNi B 12x12x4	Axially-thickness
NDBH013010A	N35/NiCuNi B 13x10x4	Axial 2 poles
NDBH013010B	N52/NiCuNi B 13x10x4	Axial 2 poles
NDBH013010C	N52/NiCuNi B 13x10x4	Axially-width
NDBH013010D	N35/NiCuNi B 13x3.5x10	Axially-width
NDBH013010E	N52/NiCuNi B 13x3.5x10	Axially-width
NDBH013010F	N35/NiCuNi B 13x10x3.5	Axial 2 poles
NDBH016016A	N45/NiCuNi B 16x16x4	Axially-thickness
NDBH016016B	N45/NiCuEpoxy B 16x16x4	Axially-thickness
NDBH019012A	N30/Zn B 19x12.7x2.3x4.5	Axially-thickness
NDBH019012B	N42/Ni B 19.05x12.7x3.18	Axially-thickness
NDBH020016A	N35/NiCuNi B 20x16x5	Axially-thickness
NDBH020020A	N35/NiCuNi B 20x20x5	Axially-thickness
NDBH020020B	N42/NiCuNi B 20x20x5	Axially-thickness
NDBH020020C	N35/NiCuNi B 20x20x12x4	Axially-thickness
NDBH025009A	N35EH/NiCuNi B 2.54x9.5x3.2	Axially-thickness
NDBH025020A	N42/NiCuNi B 25x20x5x4.5	Axially-thickness
NDBH030011A	N45H/Ni B 30x11x10	Axially-thickness
NDBH030030A	N35/NiCuBlack Epoxy B 30x30x2.5	Axially-thickness
NDBH035012A	N35/NiCuNi B 35x12x3	Axially-thickness
NDBH035012B	N42/NiCuNi B 35x12x3	Axially-thickness
NDBH040012A	N52/NiCuNi B 40x9x12	Axially-width
NDBH040015A	N35SH/Zn B 40x15x10	Axially-thickness
NDBH040018A	N38/NiCuNi B 40x18x6	Diametrically
NDBH040018B	N35/NiCuNi B 40x18x6	Axially-width



## Cylinder-Shaped Neodymium Magnets

Part Number	Diameter (mm)	Thickness (mm)	Coating	Grade	Pull (Kg)
NDCR002004B	2	4	NiSn	N40H	0.4
NDCR002003A	2	3	Ni	N35H	0.3
NDCR003012C	3	12	Ni	N45	2.1
NDCR003012A	3.5	12	Zn	N42	2.5
NDCR004005B	4	5	NiCuE	N40	1.1
NDCR005012A	5	12	Zn	N35	2.8
NDCR006020A	6	20	Zn	N40	5.9
NDCR006036A	6	36	Ni	N35	8
NDCR012028A	12	28	Ni	N42	16

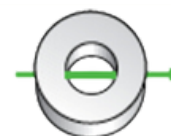


# Ring-Shaped Neodymium Magnets

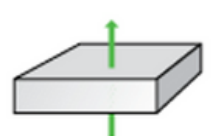
Part Number	Item Description	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)	Direction of Magnetization 1
NDRR005002A	N48M/NiCuNi R 5x3.2x2.5	5	3.2	2.5	Axially-thickness
NDRR005003B	N38/NiCuNi R 5.5x1.2x3	5.5	1.2	3	Axially-thickness
NDRR006000A	N52/NiCuNi R 6x2.5x0.8	6	2.5	0.8	Axially-several poles
NDRR006002A	N52/Zn R 6x1x2	6	1	2	Diametrically
NDRR007001A	N35/Zn R 7.5x3.2x1.5	7.5	3.2	1	Axially-thickness
NDRR007001B	BMN-40/NiCuNi R 7.5x3x1	7.5	3	1	Diametrically
NDRR007001C	N50/NiCuNi R 7.5x3x1	7.5	3	1	Diametrically
NDRR007001D	N52/NiCuNi R 7.5x3x1	7.5	3	1	Diametrically
NDRR007001J	N45/ZN R 7.5x3.2x1.5	7.5	3.2	1.5	Axially-thickness
NDRR007002B	N35/Zn R 7.5x3.2x2	7.5	3.2	2	Axially-thickness
NDRR007006A	N50/Zn R 7.62x1.98x6.1	7.6	1.98	6.1	Axially-thickness
NDRR008020A	N48/Zn R 8.2x20x4.5	8.2	20	4.5	Diametrically
NDRR008020B	N48/Zn R 8.5x20x4.5	8.5	20	4.5	Axially-length
NDRR008025A	N48/Zn R 8.5x4.5x25	8.5	4.5	25	Axially-length
NDRR008025B	N48/Zn R 8.5x25x4.5	8.5	25	4.5	Diametrically
NDRR009002A	N28EH/NiCuNi R 9.5x3x2.4	9.5	3	2.4	Diametrically
NDRR009002B	N38AH/NiCuNi R 9.5x3x2.4	9.5	3	2.4	Diametrically
ndrr009003	N48/Ni D 9.25x3.5	9.25		3.5	Diametrically
NDRR009003A	N33H/Ni R 9.55x3.175x3.175	9.55	3.17	3.17	Axially-thickness
NDRR009003B	N35/NiCuNi R 9.5x3.2x3.1	9.5	3.2	3.1	Axially-thickness
NDRR009003C	N42/NiCuNi R 9.525x3.454x3.175	9.525	3.45	3.17	Axially-thickness
NDRR009007A	N35/Zn R 9.6x2x7.5	9.6	2	7.5	Axially-thickness
NDRR010002A	N35/Zn R 10x3x2	10	3	2	Axially-thickness
NDRR010003A	N35/NiCuNi R 10x3.4x3	10	3.4	4.3	Axially-thickness
NDRR010003B	N35/Zn R 10x2x3	10	2	3	Axially-thickness
NDRR010003C	N38UH/NiCuNi R 10x5x3	10	5	3	Axially-thickness
NDRR010003D	N35/Zn R 10x5.5x3	10	5.5	3	Axially-thickness

**[For the full list of Ring-Shaped Neodymium Magnets – Click Here](#)**

Diametrically



Axially



# SAMARIUM COBALT MAGNETS

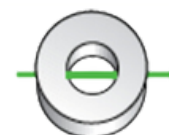
(SmCo)



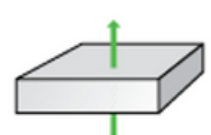
# Disk-Shaped Samarium Cobalt

Part Number	Item Description	Diameter (mm)	Thickness (mm)	Direction of Magnetization 1
SMDR002001A	SmCo5 D 2.5x1	2.5	1	Diametrically
SMDR003001A	Sm2Co17 D 3x1	3	1	Diametrically
SMDR003002A	Sm2cO17 D 3x2	3	2	Axially-thickness
SMDR004002B	Sm2Co17 D 4x2	4	2	Axially-thickness
SMDR004004A	Sm2Co17/Ni D 4x4	4	4	Diametrically
SMDR004004B	SmCo D 4x4	4	4	Axially-thickness
SMDR004004C	Sm2Co17 D 4x4	4	4	Diametrically
SMDR005001A	SmCo5 D 5x1.2	5	1.2	Axially-thickness
SMDR005004A	SmCo D 5x4.2	5	4.2	Axially-thickness
SMDR006002A	SmCo D 6x2	6	2	Axially-thickness
SMDR006002B	SmCo D 6x2.5	6	2.5	Diametrically
SMDR006003A	Sm2cO17 D 6.35x3.81	6.35	3.81	Diametrically
SMDR006004A	Sm2Co17 D 6x4.7	6	4.7	Axially-thickness
SMDR009005A	SmCo5 D 9x5	9	5	Axially-thickness
SMDR009007A	SmCo5 D 9.5x7	9.5	7	Axially-thickness
SMDR010003A	Sm2cO17 D 10x3	10	3	Axially-thickness
SMDR010003B	SmCo D 10x3	10	3	Diametrically
SMDR010006A	SmCo5 D 10x6.5	10	6.5	Axially-thickness
SMDR010009A	Sm2Co17 D 10x9	10	9	Axially-thickness
SMDR015004A	Sm2Co17 D 15x4	15	4	Axially-thickness
SMDR015004B	VACOMAX 225HR D 15x4	15	4	Axially-thickness
SMDR017005A	Sm2Co17 D 17x5	17	5	Axially-thickness
SMDR025008A	SmCo5 D 25x8	25	8	Axially-thickness
SMDR059044A	Sm2Co17 D 59.5x44	59.5	44	Axially-thickness
SMDR059044B	Sm2Co17 D 59.5x44	59.5	44	Axially-thickness
SMDR080050A	Sm2Co17 D 80x50	80	50	Axially-thickness

Diametrically



Axially



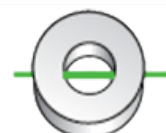


# Block-Shaped Samarium Cobalt

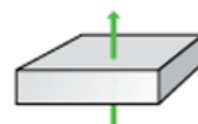


Part Number	Item Description	Length (mm)	Width (mm)	Thickness (mm)	Direction of Magnetization 1
SMBR005002A	SmCo B 5x2.4x0.9	5	2.4	0.9	Axially-length
SMBR007005A	SmCo5 B 7x5.5x4.1	7	5.5	4.1	Axially-thickness
SMBR007005B	SmCo5 B 7x5.5x4.1	7	5.5	4.1	Axially-thickness
SMBR007005C	SmCo5 B 7x5.5x4.1	7	5.5	4.1	Axially-thickness
SMBR007005D	SmCo5 B 7x5.5x4.1	7	5.5	4.1	Axially-thickness
SMBR007005E	SmCo5 B 7x5.5x4.1	7	5.5	4.1	Axially-thickness
SMBR007005F	SmCo5 B 7x5.5x4.1	7	5.5	4.1	Axially-thickness
SMBR008005A	SmCo B 8.5x5.5x5.5	8.5	5.5	5.5	Axially-thickness
SMBR012005A	SmCo5 B 12x5x2.6	12	5.2	2.6	Axially-thickness
SMBR012005B	Sm2Co17 B 12x5x2.6	12	5.2	2.6	Axially-thickness
SMBR012007A	Sm2Co17 B 12.7x7.45x1.7	12.7	7.45	1.7	Axially-thickness
SMBR012009A	Sm2Co17 B 12x9x3.2	12	9	3.2	Axially-thickness
SMBR012009B	VACOMAX 225 HR B 12x9.7x4	12	9.7	7.4	Axially-thickness
SMBR012010A	SmCo5 B 10x5x12	10	5	12	Axially-length
SMBR012012A	Sm2Co17 B 12x12x12	12	12	12	Axially-thickness
SMBR013007A	SmCo B 13X7X2.5	13	7	2.5	Axially-thickness
SMBR015010B	Sm2cO17 B 15x10x6	15	10	6	Axially-thickness
SMBR015015A	SmCo5 B 15x15x15	15	15	15	Axially-thickness
SMBR016008A	Sm2Co17 B 8x2.5x16	8	2.5	16	Axially-length
SMBR016010A	Sm2Co17 B 10x2.5x16	10	2.5	16	Axially-length
SMBR018010A	Sm2Co17 B 18.8x10.35x3	18.8	10.35	3	Axially-thickness
SMBR019004A	SmCo B 19x4.5x2.5	19	4.5	2.5	Axially-thickness
SMBR019008A	Sm2Co17 B 19.6x6.3x8	19	6.6	3.8	Axially-width

Diametrically



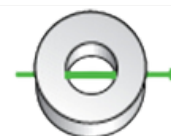
Axially



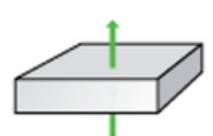
# Continued – Block-Shaped Samarium

Part Number	Item Description	Length (mm)	Width (mm)	Thickness (mm)	Direction of Magnetization 1
SMBR020005A	Sm2cO17 B 20x5x4	20	5	4	Axially-thickness
SMBR020006C	Sm2Co17 B 20.04x6.02x3.2	20.04	6.02	3.2	Axially-thickness
SMBR022019A	VCOMAX 225 HR B 22x19x2	22	19	2	Axially-thickness
SMBR025012A	Sm2Co17 B25x12x4	25	12	4	Axially-thickness
SMBR025015A	Sm2Co17 B 25x15x3	25	15	3	Axially-thickness
SMBR030015A	SmCo5 B 30x15x15	30	15	15	Axially-thickness
SMBR040005A	Sm2cO17 B 40x5x2	40	5	2	Axially-thickness
SMBR040040A	Sm2cO17 B 40x40x20	40	40	20	Axially-thickness
SMBR059025A	Sm2Co17 B 59x20x25	59	20	25	Axially-width
SMBR059025B	Sm2Co17 B 59x20x25	59	20	25	Axially-width
SMBR060017A	Sm2Co17 B 60x17.3x4	60	17.3	3.4	Axially-thickness
SMBR060030A	Sm2Co17 B 60x30x20	60	30	20	Axially-thickness
SMBR068037A	Sm2cO17 B 68x27x37	68	27	37	Axially-width
SMBR073013A	Sm2Co17 B 73.33x13.4x8.3	73.33	13.4	8.3	Axially-thickness
SMBR080080A	SmCo B 80x80x80	80	80	80	Axially-thickness
SMBR085013A	Sm2Co17 B 85.5x13.3x7.7	84	13.3	7.7	Axially-thickness
SMBR090059A	Sm2cO17 B 90x59.95x20	90	59.95	20	Axially-thickness
SMBR090059B	Sm2Co17 B 90x59.95x20	90	59.95	20	Axially-thickness
SMBR095010A	Sm2Co17 B 95x9.9x10.3	95	9.9	10.3	Axially-width
SMBR095012A	Sm2cO17 B 95x9.9x12	95	9.9	12	Axially-width
SMBR120080A	Sm2Co17 B 120x80x30	120	80	30	Axially-thickness

Diametrically



Axially





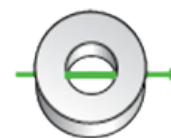
## Cylinder-Shaped Samarium Cobalt

Part Number	Item Description	Diameter (mm)	Thickness (mm)	Direction of Magnetization 1
SMCRO030087A	SmCo5 C 3x8	3	8	Axially-length
SMCRO03008A	SmCo5 C 3x8	3	8	Axially-length
SMCRO03012A	Sm2cO17 C 3x12	3	12	Axially-length
SMCRO07015A	SmCo5 7x4.05x15	4.05	5.15	Diametrically
SMCRO07015B	Sm2Co17 7x4.05x15	7.4	5.15	Diametrically
SMCRO15020A	SmCo5 D 15x20	15	20	Axially-length
SMCRO22050A	Sm2Co17 C 22x50	22	50	Axially-length
SMCRO30050A	Sm2Co17 C 30x50	30	50	Axially-length

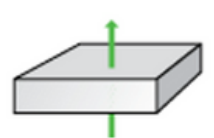
## Ring-Shaped Samarium Cobalt

Part Number	Item Description	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)	Direction of Magnetization 1
SMRRO11005A	SmCo R 11x2.1x5	11	2.1	5	Axially-thickness
SMRRO17002A	SmCo5/NiCuNi R 17x12.6x2.5	17.12	12.6	2.5	Axially-thickness
SMRRO19006A	Sm2Co17 R 19x11.5x6.5	19	11.5	6.5	Axially-thickness
SMRRO20050A	Sm2Co17 R 20.4x50x6.5	20.4	50	6.5	Axially-length
SMRRO22004A	Sm2cO17 R 22x13.6x4	22	13.6	4	Axially-thickness
SMRRO22006A	SmCo5 R 22x14x6	22	14	6	Axially-thickness
SMRRO26038A	Sm2Co17 R 26x20x38	26	20	38	Axially-thickness
SMRRO30050A	Sm2Co17 R 30x50x8	30	50	8	Axially-length
SMRRO46015A	Sm2Co17 R 46x24x15	46	24	15	Axially-thickness
SMRRO65038A	Sm2Co17 R 65.5x59.5x38	65.5	59.5	38	Axially-thickness
SMRRO68038A	Sm2cO17 R 68x62x38	68	62	38	Axially-thickness
SMRRO96030A	Sm2Co17 R 96x71x30	96	71	30	Axially-thickness

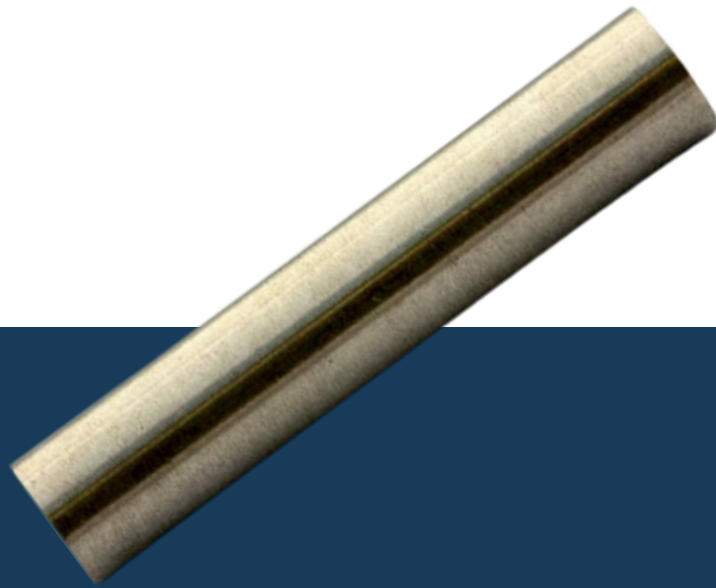
Diametrically



Axially



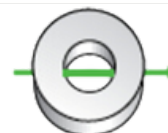
# ALNICO MAGNETS



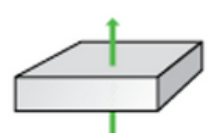
# AlNiCo Magnets

Part Number	Item Description	Direction of Magnetization 1
ALBR002001A	AL B 1.1x1.1x2.1	Axially-length
ALBR002001B	AL B 1.1x1.1x2.1	Axially-length
ALBR002001C	AL B 1.1x1.1x2.5	Axially-length
ALBR005001A	AL B 1.1x1.1x5.8	Axially-length
ALBR006004A	AlNiCo8 B 6x4x2	Axially-thickness
ALBR025006A	AL B 6.35x6.35x25.4	Axially-length
ALBR040013A	AL B 40x13x4	Axially-thickness
ALBR048008A	AL B 48x8x5	Axially-thickness
ALBR058013A	AL B 13x13x58	Axially-length
ALCR002010B	AL C 2.58x10.40	Axially-length
ALCR002010C	AL C 2.54x10.4	Axially-length
ALCR006020A	AL C 6x20	Axially-length
ALCR006031A	AL C 6.35x31.75	Axially-length
ALCR006031B	AL C 6.35x31.75	Axially-length
ALCR006035A	AL C 6.35x35	Axially-length
ALCR006035B	AL C 6.35x35	Axially-length
ALCR006039A	AL C 6.35x39	Axially-length
ALDR005004A	AlNiCo2 D 4x5	Diametrically
ALDR019006A	AL D 19.05x6.35	Axially-thickness
ALDR020012A	AL D 20x12.5	Axially-thickness
ALRR008005A	AlNiCo2 R 8x5x4	Diametrically
ALRR015005C	AL R 15.24x4.2x5.05	Radially-several Poles
ALRR017009A	AL R 17.9x6x9	Axially-thickness
ALRR020003B	AL R 20X7/4X3.4	isotropic
ALRR023007A	AL R 23.5x7.6x7	Axially-thickness

Diametrically



Axially



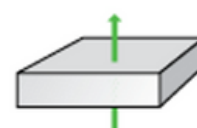
## Continued - AlNiCo Magnets

Part Number	Item Description	Direction of Magnetization 1
ALRR029003A	AL R 29.5x25.5x3	Diametrically
ALRR029006A	AL R 29.5x25.5x6	Diametrically
ALRR032002A	AlNiCo2 R 32x24.5x2	Diametrically
ALRR032002B	AlNiCo2 R 32x2x26	Diametrically
ALRR032003A	AlNiCo2 R 32x24.5x3	Diametrically
ALRR040009A	Al R 40x5.2x9	Diametrically
ALRR050009A	Al R 50x5.2x9	Diametrically
ALRR053010A	AL R 53x36x10.5	Axially-thickness
ALRR053010B	AL R 53x36x10.5	Axially-thickness
ALRR079012A	AlNiCo 6 R 7.1x12x56.03	Diametrically
ALRR08042A		
ALRR088042A	Al R 88.9x42.85x64.26	Axially-thickness
ALZZ013009A	AL B 13.5x9x4.5	Axially-thickness
ALZZ019012A	AlNiCo5 Z 19.05x12.7x6.53	
ALZZ040014A	AL R 40.4x21.5x14	Axially-thickness
ALZZ040030A	AL R 40x16x30	Axially-thickness
ALZZ055008A	Al R 55x5.4x8.5	Diametrically
ALZZ056009A	Al R 56x5.2x9	Diametrically
ALZZ056009B	Al R 56x5.2x9	Diametrically
ALZZ061015A	AL Z 61.1x15x76.2	Radially

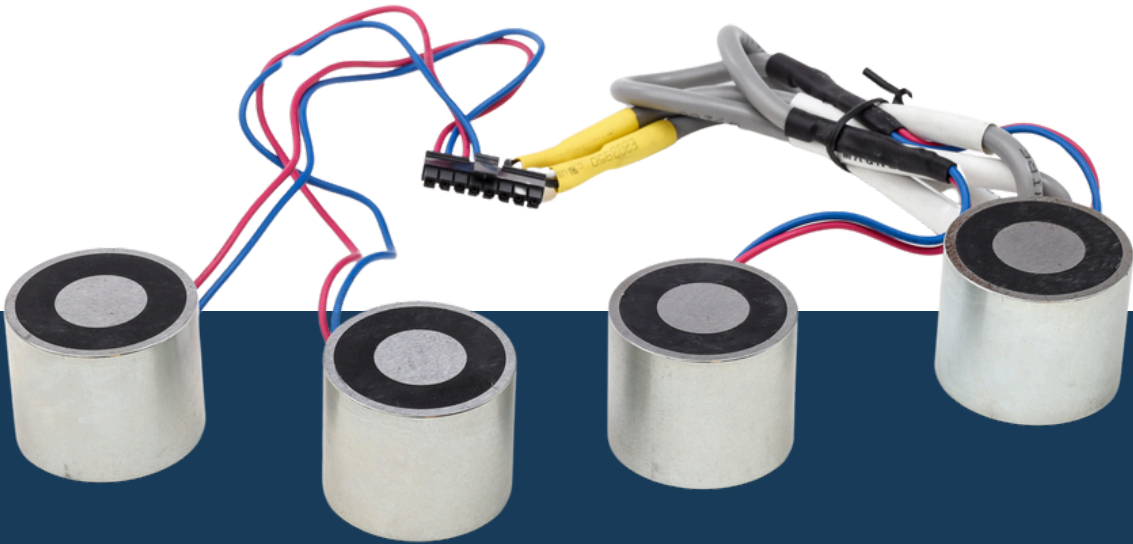
Diametrically



Axially



# ELECTROMAGNETS



# Round Electromagnets



Round electromagnets create a magnetic field around a copper coil when an electric current flows through it, attracting magnetic metals such as steel.

Power supply:  
24V (Series 414)  
12V (Series 413)  
110V and 220V - available upon request.

To purchase round electromagnets from Magma's online store - [click here.](#)

Item Number	Volt	Ø (mm)	Height (mm)	Rated power (W)	Adhesive Force (N)	weight (kg)
4130001	12V	Ø10	10	1	3	0.004
4140001	24V					
4130003	12V	Ø12	12	1	15	0.008
4140003	24V					
4130005	12V	Ø15	15	1.4	20	0.014
4140005	24V					
4130010	12V	Ø18	11	1.4	45	0.015
4140010	24V					
4130013	12V	Ø20	10	1.75	70	0.027
4140013	24V					
4130015	12V	Ø25	20	3.2	150	0.055
4140015	24V					
4130020	12V	Ø32	22	3.6	250	0.105
4140020	24V					
4130025	12V	Ø40	25.5	5.2	470	0.195
4140025	24V					
4130030	12V	Ø50	27	6.5	760	0.318
4140030	24V					
4130035	12V	Ø63	30	9	1000	0.55
4140035	24V					
4130040	12V	Ø80	38	15	2400	1.175
4140040	24V					
4131045	12V	Ø100	43	20.5	3400	2.01
4141045	24V					
4131050	12V	Ø150	56	37.2	9300	6.4
4141050	24V					
4131055	12V	Ø180	63	50	15000	10.18
4141055	24V					
4132060	12V	Ø250	80	90	30000	25.9
4142060	24V					
4132065	12V	Ø275	110	140	40000	39
4142065	24V					
4133070	12V	Ø300	130	140	45000	45
4143070	24V					



# Permanent Electromagnets

Permanent electromagnets differ from regular electromagnets in their operation. While a regular electromagnet attracts metals when an electric current flows through it and detaches when the current stops, a permanent electromagnet works in the opposite way - it constantly generates a magnetic field interrupted by an electric current.

To purchase permanent electromagnets from Magma's online store - [click here](#).

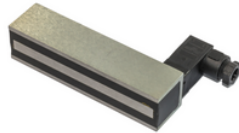
Power supply: 24V (Series 424), 12V (Series 423)

Item Number	Volt	Ø (mm)	Height (mm)	Rated power (W)	Adhesive Force (N)	weight (kg)
4230001	12V	Ø10	10	3	5	0.005
4240001	24V					
4230003	12V	Ø12	12	6	15	0.008
4240003	24V					
4230005	12V	Ø15	15	3.6	25	0.016
4240005	24V					
4230013	12V	Ø20	25	3.8	45	0.047
4240013	24V					
4230015	12V	Ø25	29	7	120	0.085
4240015	24V					
4230020	12V	Ø32	29	14.4	180	0.143
4240020	24V					
4230023	12V	Ø35	29	28	300	0.165
4240023	24V					
4230025	12V	Ø40	29	16.5	400	0.228
4240025	24V					
4230030	12V	Ø50	29	10.3	500	0.332
4240030	24V					
4230035	12V	Ø63	29	33	960	0.537
4240035	24V					
4230038	12V	Ø70	45	17.5	1200	1.06
4240038	24V					
4230040	12V	Ø82	45	43	1950	1.5
4240040	24V					
4231045	12V	Ø100	45	58	2800	2.22
4241045	24V					
4231050	12V	Ø150	63	41	3500	6.8
4241050	24V					

# Rectangular Electromagnets

Rectangular electromagnets are used for holding, carrying, and securing ferromagnetic workpieces.

Power supply: 24V



Item Number	Size mm			Rated power W	Adhesive force N	Weight Kg
4340105	25	25	100	7	600	0.7
4340110	35	40	100	9	850	0.9
4340120	35	40	150	11	1650	1.4
4342125	35	40	200	13	2300	1.5
4343135	35	40	300	19	4000	3
4344145	50	60	400	28	8400	3.9
4345155	35	40	500	40	6000	4.1
4346165	35	40	600	46	6600	4.5
4347175	35	40	700	54	7700	5.2
4348185	35	40	800	62	9200	6
4341195	60	40	1000	140	10600	27.5

# SOLENOIDS



# Tubular Linear Solenoids

Tubular Linear solenoids (cylinder-shaped) are highly dependable and sturdy.

Tubular solenoids can exert pulling or pushing force and are well-suited for applications asking for long strokes.



Part Number	Item Description	Diameter (mm)	Thickness (mm)
S48T013026SA	Tubular Linear Solenoid 13x26.4	13	26.4
S12T016032SA	Tubular Linear Solenoid 16x32.2	16	32.2
S24T019038SA	Tubular Linear Solenoid 19x38.4	19	38.4
S06T025051SA	Tubular Linear Solenoid 25x51	25	51
S24T072065PA	Tubular Linear Solenoid 72x65	72	65
S1T09015101A	Tubular Linear Solenoid 90x151	90	151

# Frame Linear Solenoids

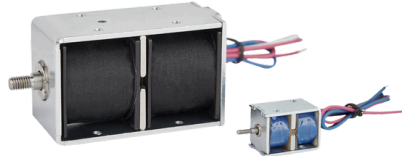
Frame linear solenoids are used in many industries. Its simple design and reliability make it the perfect choice for several applications, such as locking systems.



Part Number	Item Description	Length [mm]	Width [mm]	Height [mm]
S05F021011SA	Frame Linear Solenoid 21X11.3X9.58	21	11.3	9.58
S09F025012SA	Frame Linear Solenoid 25x12x10	25	12	10
S12F025012SA	Frame Linear Solenoid 25x12x10	25	12	10
S12F029019SA	Frame Linear Solenoid 29.7x19x16	29.7	19	16
S09F037026SA	Frame Linear Solenoid 37x26x20	37	26	20
S24F040029SA	Frame Linear Solenoid 40x29x24	40	29	24
S24F053030SA	Frame Linear Solenoid 53x30x27	53	30	27
S24F061040SA	Frame Linear Solenoid 61x40x30	61	40	30
S24F075060PA	Frame Linear Solenoid 61x40x30	61	40	30
S24F083058SA	Frame Linear Solenoid 83x58x52	83	58	52

# Double-Coil Linear Solenoids

Double-coil solenoids have two fixed stroke end positions determined mechanically. They are bistable, using permanent magnetic force to hold positions without a continuous current. An electrical impulse can reverse their polarity. These solenoids are commonly used in locking systems.



Part Number	Item Description	Length [mm]	Width [mm]	Height [mm]
S24D021014SA	Double Coil Solenoid 21x14.9x13	21	14.9	13
S1D021015S1B	Double Coil Solenoid 21x15x13	21	15	13
S10D030022SA	Double Coil Solenoid 30x22x18	30	22	18
S1D030022S1B	Double Coil Solenoid 30x22x18	30	22	18
S24D030025SA	Double Coil Solenoid 30x25x25	30	25	25
S1D032025S1B	Double Coil Solenoid 32x25x25	32	25	25
S12D040027SA	Double Coil Solenoid 40x27x23	40	27	23
S24D062038SA	Double Coil Solenoid 62x38x31	62	38	31
S24D076039SA	Double Coil Solenoid 76.5x39x31	76.5	39	31

# HOLDING MAGNETS

(Pot Magnets)



## Series A – Hole + Phase



Part number	ØD	ØD1	ØD2	H	Holding force (Kg)	Weight (g)
PM016005A	16	3.5	6.5	5.2	5	7
PM020007C	20	4.5	8.6	7.2	6	15
PM025007A	25	5.5	10.4	7.7	14	24
PM032007C	32	5.5	10.4	7.8	25	39
PM036007A	36	6.5	12	7.6	29	50
PM042008A	42	6.5	12	8.8	37	77
PM060015A	60	8.5	16	15	112	243
PM075017A	75	10.5	19	17.8	162	480

## Series B – Hole



Part number	ØD	ØD1	ØD2	H	Holding force (Kg)	Weight (g)
PM016005B	16	3.5	6.5	5.2	4	6.5
PM020007D	20	4.5	8	7.2	6	13
PM025007D	25	5.5	9	7.7	14	22
PM032007D	32	5.5	9	7.8	23	38
PM036007B	36	6.5	11	7.6	29	48
PM042008B	42	6.5	11	8.8	32	75
PM048010A	48	8.5	15	10.8	63	114
PM060015B	60	8.5	15	15	95	235



## Series C - External Thread



Part number	ØD	M	h	H	Holding force (Kg)	Weight (g)
PM010005A	10	3	5	12	2.2	3.5
PM012005A	12	3	5	12	3.2	5
PM016005C	16	4	5.2	14	5.5	9
PM020007B	20	4	7.2	16	9	16
PM025007E	25	5	7.7	17	22	26
PM032007A	32	6	7.8	18	34	43
PM036007C	36	6	7.6	17.6	41	54
PM042008C	42	6	8.8	18.7	68	83
PM048010B	48	8	10.8	24	81	130
PM060015C	60	8	15	31.5	113	256
PM075017C	75	10	17.8	35	164	510

## Series D - Inner Thread



Part number	ØD	ØD1	M	h	H	Holding force (Kg)	Weight (g)
PM010005B	10	6	3	5	12	2.2	4
PM012005B	12	6	3	5	12	3.2	6
PM016005D	16	6.5	4	5.2	13.5	5.5	9
PM020007E	20	6.5	4	7.2	15	9	17
PM025007F	25	7.5	5	7.7	17	22	28
PM032007E	32	10	6	7.8	18	34	45
PM036007D	36	10	6	7.6	18.5	41	55
PM042008D	42	10	6	8.8	18.8	68	84
PM048010C	48	12	8	10.8	24	81	130
PM060015D	60	12	8	15	28	113	263
PM075017D	75	17	10	17.8	35	164	515



**Magma's team will be happy to help you with any questions!**

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