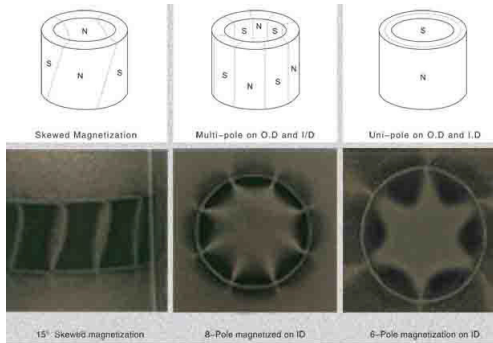


## Neodymium rotor rings

### NEODYMIUM SINTERED INTO RINGS WITH RADIAL OR OBLIQUE MULTI-POLE MAGNETISATION ON THE DIAMETER FROM 4 TO 32 RADIAL POLES



This new technology used to manufacture NdFeB sintered magnets improves the magnetic flux generated by individual NdFeB "segment" or "skew" type magnets, thus improving motor performance and efficiency. Applied to brushless or step motors with permanent magnets, our neodymium rings improve performance and reduce the typical "cogging effect" with segment or parallelepiped magnet technology.

### ADVANTAGES

- Faster assembly time
- Better motor timing
- Enhanced motor performance
- Better torque and efficiency
- Reduced cogging effect
- Maximum energy produced (BH Max): up to 49 MGOe
- Coercive force (HCJ): 2000 KA/m
- Tmax 180 °C

### APPLICATIONS

- Brushless motors / pancake motors / DC PM motors/ Step motors
- Magnetic locking systems
- Relay magnetic systems
- Industrial machines and accessories
- Magnetic equipment
- Magnetic separators

### POSSIBLE SHAPES AND SIZES

- Maximum external diameter: 70 mm
- Minimum internal diameter: 12 mm
- Maximum thickness: 7 mm
- Minimum thickness: 2 mm
- Maximum length: 50 mm (for reduced thicknesses, less than 15)
- Tolerances: +/- 0.1



## Neodymium rotor rings

### POSSIBLE TYPES

All magnet specifications are indicated in the table.

NO	GRADE	BR				HCB		HCJ		(BH)MAX				Max working temperature
		KGs		T		KOe	KA/m	KOe	KA/m	MGOe		kJ/m3		L/D ≥ 0.7
		Max	Min	Max	Min	Min	Min	Min	Min	Max	Min	Max	Min	°C
1	N35	12,3	11,8	1,23	1,18	≥ 10,9	≥ 868	≥ 12	≥ 955	36	33	287	263	≤ 80
2	N38	12,6	12,3	1,26	1,23	≥ 11,3	≥ 899	≥ 12	≥ 955	39	36	311	287	≤ 80
3	N40	12,9	12,6	1,29	1,26	≥ 11,4	≥ 907	≥ 12	≥ 955	41	38	327	302	≤ 80
4	N42	13,3	12,9	1,33	1,29	≥ 11,5	≥ 915	≥ 12	≥ 955	43	40	342	318	≤ 80
5	N45	13,7	13,3	1,37	1,33	≥ 11,0	≥ 876	≥ 12	≥ 955	46	43	366	342	≤ 80
6	N48	14,1	13,7	1,41	1,37	≥ 10,5	≥ 836	≥ 11	≥ 876	49	45	390	358	≤ 80
7	33M	11,8	11,3	1,18	1,13	≥ 10,5	≥ 836	≥ 14	≥ 1114	34	31	271	247	≤ 100
8	35M	12,3	11,8	1,23	1,18	≥ 10,9	≥ 868	≥ 14	≥ 1114	36	34	287	271	≤ 100
9	38M	12,6	12,3	1,26	1,23	≥ 11,3	≥ 899	≥ 14	≥ 1114	39	36	311	287	≤ 100
10	40M	12,9	12,6	1,29	1,26	≥ 11,6	≥ 923	≥ 14	≥ 1114	41	38	327	302	≤ 100
11	42M	13,3	12,9	1,33	1,29	≥ 12	≥ 955	≥ 14	≥ 1114	43	40	342	318	≤ 100
12	45M	13,7	13,3	1,37	1,33	≥ 12,5	≥ 995	≥ 14	≥ 1114	46	43	366	342	≤ 100
13	30H	11,3	10,8	1,13	1,08	≥ 10	≥ 796	≥ 17	≥ 1353	31	28	247	223	≤ 120
14	33H	11,8	11,3	1,18	1,13	≥ 10,5	≥ 836	≥ 17	≥ 1353	34	31	271	247	≤ 120
15	35H	12,3	11,8	1,23	1,18	≥ 10,9	≥ 868	≥ 17	≥ 1353	36	33	287	263	≤ 120
16	38H	12,6	12,3	1,26	1,23	≥ 11,3	≥ 899	≥ 17	≥ 1353	39	36	311	287	≤ 120
17	40H	12,9	12,6	1,29	1,26	≥ 11,6	≥ 923	≥ 17	≥ 1353	41	38	327	302	≤ 120
18	42H	13,3	12,9	1,33	1,29	≥ 12	≥ 955	≥ 17	≥ 1353	43	40	342	318	≤ 120
19	45H	13,7	13,3	1,37	1,33	≥ 12,3	≥ 979	≥ 17	≥ 1353	46	43	366	342	≤ 120
20	30SH	11,4	10,8	1,14	1,08	≥ 10,1	≥ 804	≥ 20	≥ 1592	31	28	247	223	≤ 150
21	33SH	11,8	11,4	1,18	1,14	≥ 10,6	≥ 844	≥ 20	≥ 1592	34	31	271	247	≤ 150
22	35SH	12,3	11,8	1,23	1,18	≥ 11,0	≥ 876	≥ 20	≥ 1592	36	33	287	263	≤ 150
23	38SH	12,6	12,3	1,26	1,23	≥ 11,4	≥ 907	≥ 20	≥ 1592	39	36	311	287	≤ 150
24	42SH	13,3	12,9	1,33	1,29	≥ 12,4	≥ 987	≥ 20	≥ 1592	43	40	342	318	≤ 150
25	45SH	13,7	13,2	1,37	1,32	≥ 12,6	≥ 1003	≥ 20	≥ 1592	46	42	366	334	≤ 150
26	28UH	10,8	10,4	1,08	1,04	≥ 9,6	≥ 764	≥ 25	≥ 1989	29	26	231	207	≤ 180
27	30UH	11,4	10,8	1,14	1,08	≥ 10,1	≥ 804	≥ 25	≥ 1989	31	28	247	223	≤ 180
28	33UH	11,8	11,4	1,18	1,14	≥ 10,7	≥ 852	≥ 25	≥ 1989	34	31	271	247	≤ 180
29	35UH	12,3	11,8	1,23	1,18	≥ 10,8	≥ 860	≥ 25	≥ 1989	36	33	287	263	≤ 180