

Types of magnetization

PERMANENT MAGNETIC MATERIALS

Types	Magnetization	1	2	3	4	5	6	7	Examples of applications
	Axial magnetized	●	●	●	●	●	●	●	Loud speakers, magnetic pot systems, attaching systems, magnetic switches, filter candles, contacts in inert gasses
	Sector shaped on a single surface		●	●		●	●	●	Magnetic couplings, brakes, attaching systems Hall sensors, motors with disc armature
	Axial magnetized sectors					●			Synchronous motors, couplings, brakes, Hall sensors, motors with disc armature
	Radial magnetized		●	●				●	Lifting magnets, attaching systems, bearings
	Diametric magnetized	●	●	●	●	●	●	●	Synchronous motors, pumps
	Sector shaped on a single surface		●					●	Magnetic couplings, brakes, attaching systems Hall sensors, motors with disc armature
	Multipolar magnetized on outer diameter		●			●		●	Dynamos, motors, couplings, brakes, Hall sensors, tachogenerators
	Multipolar magnetized on outer diameter		●					●	Dynamos, motors, couplings, brakes, Hall sensors, tachogenerators
	Multipolar magnetized on inner diameter		●					●	Couplings, brakes, motors, Hall sensors, tachogenerators
	Lateral magnetized (line formed), P = pole stitch		●					●	Attaching systems, contacts in inert gasses, Hall sensors, brakes
	Segment, radial magnetized			●	●			●	Motors, couplings
	Segment, diametric magnetized	●	●	●	●	●	●	●	Motors, couplings

- Hard ferrite (sintered/plastic bonded), isotropic
- Hard ferrite (sintered/plastic bonded), anisotropic
- Neodymium, sintered
- Plastic bonded neodymium, isotropic
- SmCo sintered
- Alnico sintered/cast
- Plastic bonded SmCo / SmFeN

