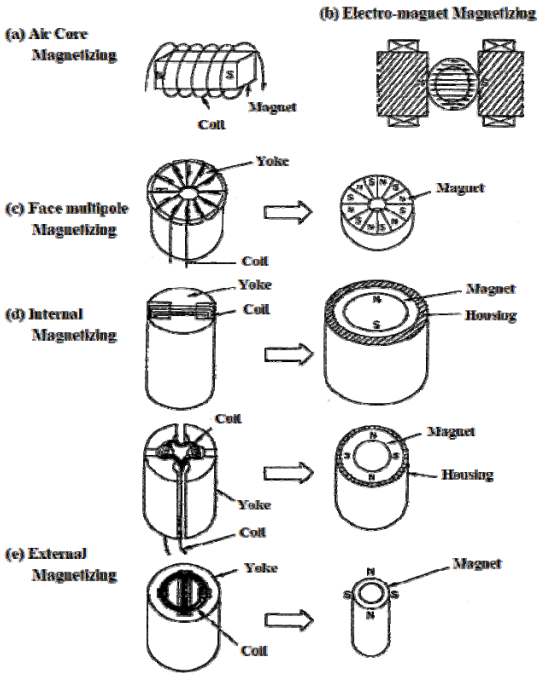
Magnet Force

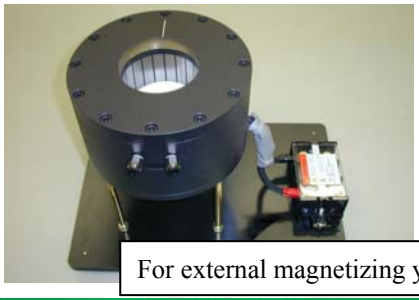
—For multipole magnetizing and pattern magnetizing of permanent magnet—

Magnetizing Yoke

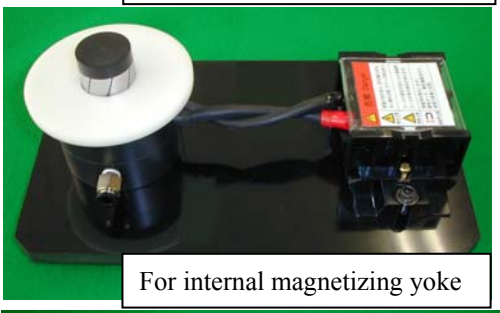
- Have distinguished durability for high voltage / heavy-current power from magnetizing electric power supply to do a vacuum mold in epoxy resin.
- With superior material of magnetic properties, show high performance by the most suitable magnetic circuit design.
- High takt continuous service in a production line is possible by using a water-cooled chiller.
- We can do design and manufacture of magnetizing yoke in wide line up such as ferrite magnet use, rare earths magnet use.



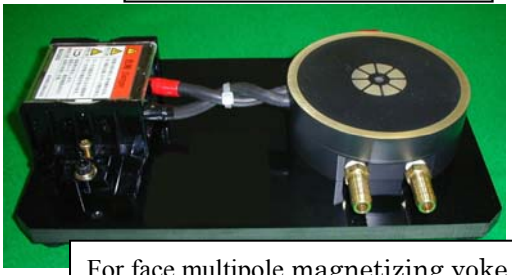
Configuration and magnetizing pattern of magnetizing yoke



For external magnetizing yoke



For internal magnetizing yoke



For face multipole magnetizing yoke

About magnetizing power supply which you use	V μF A
About magnet which you use	Company Name Model No.
Necessary magnetic field	mT over
Takt	Once energization second rest
Magnetizing object	magnetizing specification and a product specification document

Refer to upper diagram, and please inform our sales person of the topic that is necessary for design of a yoke. We do design and estimate of the most suitable magnetizing yoke.

*Please refer to "Electro-magnet catalogue" about "electro-magnet magnetizing" of upper diagram.

Magnet Force Co., Ltd.
MFC

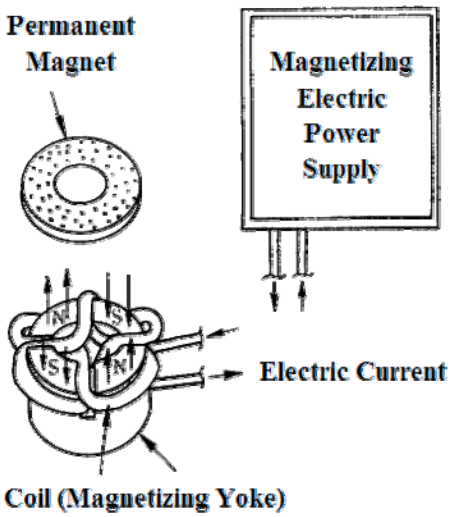
About magnetizing yoke

1. Principle of magnetizing yoke

1) Call the jig which wrapped an iron core (a yoke) with a coil a magnetizing yoke. Turn on electricity in a magnetizing yoke in heavy-current of a pulse to output from a magnetizing electric power supply. (Cf. right drawing.)
Current value is tens of thousands of amperes from several thousand amperes. The time-current characteristic that an electric current flows through is several hundred miliseconds from several miliseconds. (Change by a specification of a coil)

2) When an electric current flows through magnetizing yoke, strong pulse magnetic field occurs from a coil. The part which attached a coil of a magnetizing yoke (magnetic pole) becomes a powerful electromagnet.

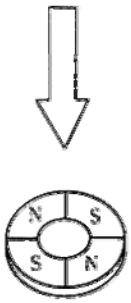
3) When a permanent magnet of non-magnetizing is set at the part which attached a coil of a magnetizing yoke, be done magnetizing. Magnetic pole pattern done magnetizing of becomes same as magnetic pole pattern of a magnetizing yoke.



2. The magnetic field which occurs with a magnetizing yoke

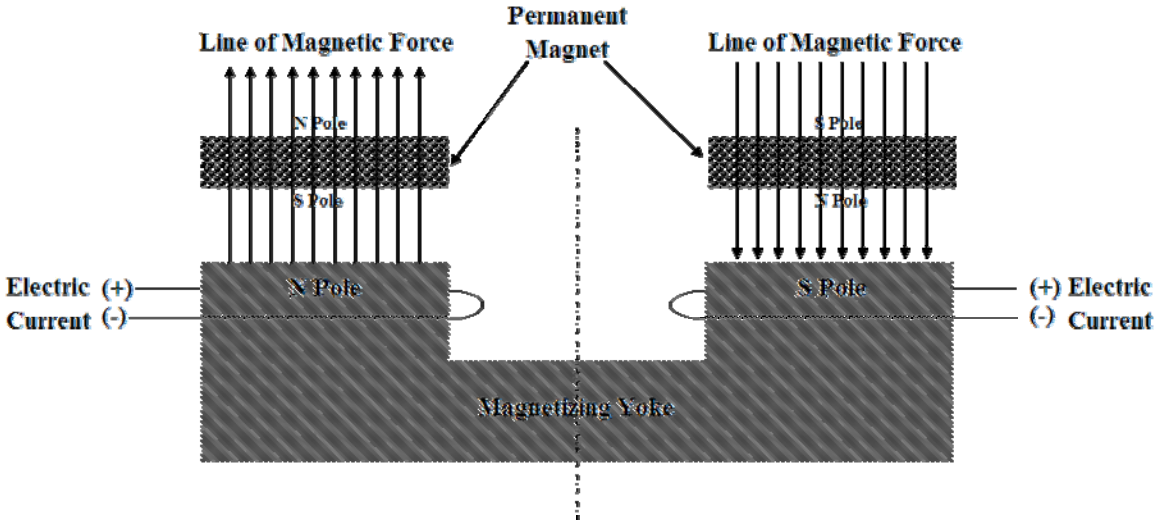
1) In the case of a magnetizing yoke with 4 pole magnetizing as a ring type magnet such as the right drawing, an N pole (the pole which a magnetic flux discharges) and an S pole (the pole which magnetic flux is incident on) are posted in turn.

2) As for the magnetized permanent magnet, polarity of an N pole (the pole which a magnetic flux discharges) of a magnetizing yoke side becomes an S pole (the pole which magnetic flux is incident on). Therefore, as for the opposite face of a magnetizing yoke side, polarity is reversed.



Attention!
Magnetic pole pattern of a magnetizing yoke and magnetic pole pattern of a magnetized permanent magnet are plane symmetry.

The image that watched a magnetizing yoke from the side



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