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TECHNOLOGY GROUP

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Find the *GMW Associates 3470* at our website: *Click HERE*

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GMW Dipole Electromagnet, 45mm, 3470

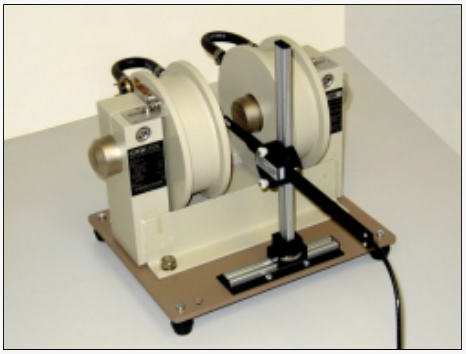
Systems & Pricing
Overview Specifications Accessories Tech Support Pricing

Features
- Small Size
- Reversible Plane or Tapered Poles
- Adjustable Pole Gap
- Air or Water Cooled
- Adjustable Coil Spacing
- Bench or Wall Mounting
- Optional 50mm Square Poles



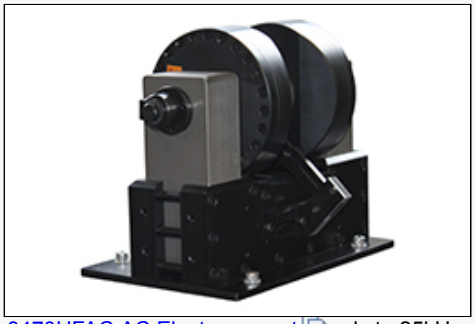
Applications
- Hall Effect Studies
- Magneto-Optical Studies
- Laboratory Experiments
- Magnetic Separation experiments
- Magnetic alignment of small components
- Studying chemical reaction rate changes

The **3470** Electromagnet is the smallest and lightest standard dipole electromagnet available from GMW. It is used in a wide range of teaching, research and industrial applications where a relatively small volume of field is required. The light weight allows it to be used on optical tables and the simple poles enable axial entry & exit holes to be matched to the optical geometry.



3470 with hall probe mount.
Please visit our Magnet Systems page for more information.

Poles
The electromagnet has two 45mm (1 ¾ inch) diameter cylindrical pole pieces. One end of each pole piece has a plane cylindrical 40mm pole face and the other end has a tapered 20mm pole face. The 40mm pole face produces the most uniform field. The tapered 20mm pole faces are used when higher gap fields are needed. Each pole piece is clamped in the yoke by a bolt. The pole pieces are adjusted to vary the gap by slackening the clamping bolts. The same procedure is used to remove or reverse the pole pieces. The gap is adjusted in the range from 0 to 75mm. Optional square poles (50mm side) are available. (The square poles have been applied in a simple mass spectrometer as described in "Undergraduate Mass Spectrometer", John W. Dewdey, American Journal of Physics, **28** (1960) 452-456.



3470HFAC AC Electromagnet, dc to 25kHz

Coils
The two coils are wound on spools, which have integral, electrically isolated, water cooling tubes and overtemperature interlock switches. Operation with water cooling allows a maximum coil current of 6A. Regular tap water may be used. Without water cooling, the maximum operating current is 3.5A. The coil-to-coil spacing is adjustable over the range from 35 to 75 mm.

Variation and Customizations

- 3470HFAC High Frequency AC Magnet. Fields to ±70MT with frequency from dc to 25kHz
- 3470-ET “Extended Throat” has a 165mm deep throat [from center of pole face to yoke cross-bar] sized to apply field to the center of a 300mm wafer.
- Custom Yoke geometries (e.g. extended air-gap)
- Custom poles optimized for field uniformity, physical access to sample, and optical access to sample.

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