

5501 Electromagnet



OVERVIEW

The **5501 Electromagnet** is a fixed Pole gap C frame dipole electromagnet. The C frame gives open access to the pole gap region from and the 5501 can be mounted in any orientation.

The Pole Face diameter can be up to 250mm maximum with a Pole Gab of up to 200mm maximum, configured for the specific application requirements.

Features

- Large Open Access
- Large Region of High Field

Applications

- Magnetic Separation
- Magnetic Alignment of Components
- Magnetic Refrigeration Material Studies
- Magneto-Mechanical Measurements
- Magnetorheological Fluid and Ferrofluid Testing

GMW Associates

🌐 www.gmw.com

✉ sales@gmw.com

☎ +1-650-802-8292

📍 955 Industrial Road
San Carlos, California, USA

Model 5501 General Specifications

Mechanical

Pole Diameter	250mm maximum. Configured for application.
Pole Gap	Fixed 200mm maximum
Dimensions	828mm W x 410mm D x 709mm H
Weight	1800kg

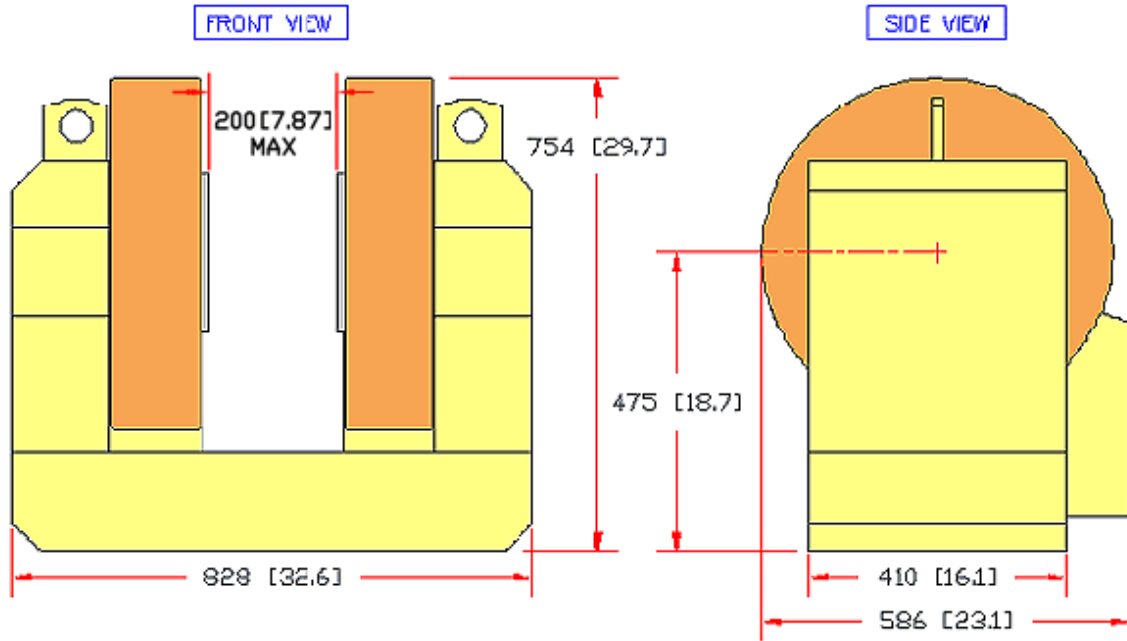
Coils (series connected)

Resistance (20°C)	0.44Ω
Max Resistance	0.54Ω
Max Power (water)	140Amps, 76Volts (10.6kW)
Max Power (air)	40Amps, 22Volts (0.88kW)
Self Inductance	Approx 60mH
Water Cooling	15liters/min, 2.0bar (4.0US GPM, 30psid)
Maximum Absolute Pressure:	Absolute maximum pressure 10bar (150psid)

Safety

Overtemperature	Contacts closed below 65°C.
Water Flow	Contacts open with a flow of less than 8 liters per minute.

General Assembly



Field vs. Current (250mm Pole diameter, 200mm Pole gap)

