

## Specifications of Electromagnet and Power Supply

### General Specifications of 2 Tesla Electromagnet:

- Magnetic field : 2.0 Tesla (horizontal) at 20 mm pole gap.
- Pole Gap : 0-150 mm (adjustable).
- Pole Diameter : 100 mm (approx).
- Pole face : high permeability alloy
- Pole profile : Tapered (15-25%)
- Yoke construction : H shaped mounted on a stand
- Coil Voltage :  $\pm 70$  V DC.
- Coil Current :  $\pm 100$  Amp. DC.
- Duty Cycle : Continuous
- System Cooling : Air/Water Cool

### General Specification of Bipolar Power Supply:

- I/P voltage : 440V or 220V AC, 3 or 1 phase, 40-60 Hz.
- O/P Voltage :  $\pm 70$  V DC
- O/P Current :  $\pm 100$  Amp. DC
- Voltage/Current control accuracy 99.9% of set point.
- Control : Close loop (Voltage/Current control)
- Resolution : 0.01 volts/amps D.C.
- DC Output : Isolated & Ripple free
- Display : All electrical parameter shown on display
- Logic : Step control logic with time control
- Control options : Local and Remote.
- Safety : Over Voltage, Current & Temp
- Remote : Serial Port / GPIB / LAN etc. for computer interface.

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