SCRAP LIFTING MAGNET

SUSHIL'S

Circular load lifting magnets are highly effective for handling iron and ferrous materials. They are of robust cast and bolted or welded constructions. They are designed for general steel iron and scrap lifting applications to give maximum reliable efficient and economical performance. The magnets are also used to charge the furnace directly and it can handle tons of scrap continuously.

CONSTRUCTION

MAGNET BODY

The magnet body is fabricated from high permeability low carbon steel for minimum leakage and maximum magnetic lifting and holding efficiency with utmost toughness. It is carefully proportioned to provide the most efficient magnetic circuit.

CENTRE POLE

This is casted from high permeability low carbon steel for minimum leakage and maximum lifting capacity. They are of wear resistant material, easily renewable and secured by high tensile strength steel bolts and ample dimensions.

BUMPING PLATE

A strong ribbed manganese steel casting forms the bumping plate and is locked with square bar surrounded to centre core. It surrounds the centre pole which provides most effective magnetic circuit, by which entire bottom face of magnet becomes effective for lifting.

COIL PACK

This is made from double fiber glass covered high conductivity Copper / Aluminium stripes with "H" class insulation and so designed to withstand high temperature during operation. The coil assembly is impregnated under vaccum and pressure to completely fill all voids inside the coil.

TERMINAL BOX

The terminal box is cast integral with magnet shell and is designed to prevent the internal connections from mechanical damage.

ACCESSORIES

- Control Panel
- Master Control
- Cable Reeling Drum

LIFTING CHAINS

Sling chains are provided with each magnet. They are of the three legged alloy steel chain type with shackles at one end and a bull ring at the other. They are specially designed to suit all normal duty loads as well as for extra heavy lifting such as slap handling is provided.

DUTY CYCLE

The permissible relative duty cycle is 50% for extra heavy duty and for handling hot materials, magnets are available on request.

OPERATING VOLTAGE

Rectified DC Voltage 220 V D.C are fed to the coils. This will be made available from mains of 415 / 440 V, 3 Phase, 50Hz. AC through a transformer, rectifier bridge in control panel.