



**MAG TOOLS**  
MAchanical Tool Filtration Systems & Conveyors

# MAG TOOLS

Magnetic coolant filters

The ultimate dependable  
and efficient filtering systems

## DESIGN

Mag Tool's Magnetic Coolant filters designed for filtering coolant oils contaminated with ferrous materials. These equipments are light weight, compact design and can easily be installed. These Magnetic Coolant Filters are manufactured in 2 Models. TAP & ATP.

### MODEL – TAP

The body is fabricated in thick sheet metal. The Magnetic drum is slotted type with powerful ring magnets. The magnetic field will be throughout the periphery. This produces magnetic field 30 mm above the drum. Very fine particles will be arrested without slip. The magnetic material used will not lose its strength even after number of years of use.

Magnetic Coolant Filters with 100 to 1200 liters per minute filtering capacity are available in single construction.

### MODEL – ATP

The magnetic drum is made out of powerful ring magnets which also produces field 30 mm above the drum. Very particles will be arrested without slip. The magnetic material will not lose its strength even after number of years of use.

These filters are available in 30 to 500 liters per minute filtering capacity. These filters can be coupled with Hydrocyclone, Paper Bank, cartridge filters etc. And are also manufactured as per customer requirements.

## GEAR BOX

The drive of the drum is achieved by double reduction worm and worm wheel. The worms are made in high carbon steel, hardened and ground which run on sealed ball bearings. The worm wheels are made in high wear resistance materials. An oil indicator is provided to ensure the level of oil in the gear box. This Gear box is designed for continuous and trouble free running for years.

## WORKING PRINCIPLES

The contaminated coolant from the machine is fed into the inlet of magnetic filter. As it passes through the gap between the drum and the body, the dust particles are arrested by the magnetic drum. A synthetic rubber roller mounted on springs, squeezes the dust and allows only dry powder, which is further scraped out from the drum by scraper and is collected in the dust collecting tray. The filtration level achieved will be almost 95% for ferrous particles.

## APPLICATION

These Filters can be used with all types of Grinding machines such as Cylindrical, Centerless, Internal, Surface, Double-Disc & Roll-grinding machines. These can also be used for filtering honing oil of Honing machines.

## Model - TAP

Dimensional specification for 'Model - TAP' Magnetic coolant filters :

Capacity In LPM	A	B	C	Motor HP 3ph 1400 RPM	Drum RPM	Magnetic Drum Size
100	400	200	205	0.25	2.3	D 180x185 L
150	400	200	280	0.25	2.3	D 180x260 L
200	400	200	380	0.25	2.3	D 180x360 L
300	500	200	480	0.50	2.3	D 180x1460 L
400	500	200	580	0.50	2.3	D 180x560 L
500	600	200	680	0.50	2.3	D 180x600 L
600	600	200	780	0.50	2.3	D 180x760 L
700	800	200	880	0.50	2.3	D 180x860 L
800	800	200	980	0.50	2.3	D 180x960 L
900	800	200	1080	0.50	2.3	D 180x1060 L
1000	800	200	1180	0.50	2.3	D 180x1160 L
1100	800	200	1280	0.50	2.3	D 180x1260 L

All dimension are in mm

Coolant in left

Dimensional specification for 'Model – ATP' Magnetic Coolant filters :

Capacity In LPM	A	B	C	Motor HP 3ph 1400 RPM	Drum RPM	Magnetic Drum Size
30	350	150	150	0.25	2.3	D 150 X 130 L
50	400	150	205	0.25	2.3	D 150 X 185 L
65	400	150	280	0.25	2.3	D 150 X 260 L
100	400	150	380	0.25	2.3	D 150 X 360 L
150	500	200	580	0.25	2.3	D 150 X 560 L
200	500	200	720	0.50	2.3	D 150 X 700 L
300	550	200	620	0.50	2.3	D 150 X 600 L
400	550	200	720	0.50	2.3	D 150 X 700 L
500	550	200	820	0.50	2.3	D 150 X 800 L

All dimension are in mm

**OTHER PRODUCT RANGE INCLUDE**

Aluminium Chip Conveyor cum Drum Filter  
 Paper Band Cum Magnetic Coolant Filters  
 Hydro Cyclone Filters  
 Cartridge Filters  
 Vacuum Filters  
 Magnetic Chip Conveyors

Mechanical Chip Conveyors  
 Scraper Conveyors  
 Screw Conveyors  
 Roller Conveyors  
 Skimmers (Dist type & belt type)  
 Centralized Coolant Filtrations

Chip Centrifuge  
 Chip Crushers  
 Pressure band Filters  
 Compact band Filters  
 Oil Chilling units  
 Filter Paper Rolls etc.

THE DIMENSIONS & SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AS THE MODELS MENTIONED ABOVE ARE IMPROVED CONSTANTLY.