DEBRIS RECOVERY

DOWN HOLE MAGNET TOOL

TECSEP's Down Hole Magnet tool is a heavy-duty, bar-type tool used to remove ferrous debris from wellbore fluids. Down Hole Magnet tool comprises rows of high-strength bar magnets arranged longitudinally along the mandrel of the tool. The magnet polarities are aligned in such a way that the majority of ferrous debris collects in the valleys between the rows of magnets, thereby maximizing the total flow area around the tool even when it is filled with ferrous debris.

EFFICIENTLY REMORE FERROUS DEBRIS FROM WELLBORE FLUIDS

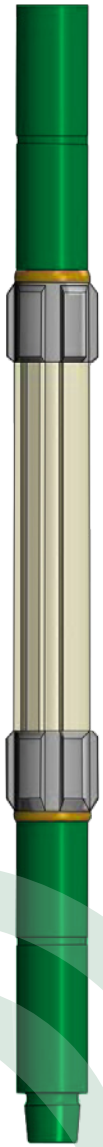
APPLICATIONS

- Removing ferrous metals during wellbore-cleaning operations.
- Capturing and removing cuttings during drilling or milling operations.

HIGH-STRENGHT BAR MAGNETS

FEATURES AND BENEFITS

- The Down Hole Magnet tool is rated for use in temperatures up to 300°F (149°C).
- High temperature model also available.
- Bar magnets are arranged in rows around the mandrel to provide metal-retention forces.
- The magnets are triple coated to minimize corrosion issues.
- The design enables drill string rotation while the magnet section remains stationary, which reduces casing wear and minimizes the risk of debris becoming detached.



DOWN HOLE MAGNET

TOOL SPECIFICATION

Casing size	≥9.625 in.	9.625 to 13.375 in.	7 to 9.625 in.
Overall lenght	98 in. (249 cm)	98 in. (249 cm)	79 in. (200.66 cm)
Fishing neck OD	7 in. (18 cm)	6.5 in. (16.5 cm)	4.75 in. (12 cm)
Centralizer OD	8.375 to 12.25 in. (21 to 31 cm)	8.375 in. (21 cm)	5.790 in. (15 cm)
Throughbore	2.5 in. (6 cm)	2.5 in. (6 cm)	2 in. (5 cm)
Connection	NC50 box-pin	NC50 box-pin	NC38 box-pin
Maximum debris collection	202 to 360 lb (92 to 163 kg)	202 (92 kg)	73 lb (33 kg)
Number of ribs	6	6	6
Tensile yield	978,700 lb	928,200 lb	443,770 lb
Torsional yield	61,000 ft/lb	28,00 ft/lb	17,000 ft/lb