

# Tornar® Grab Magnet

## Reliable well cleaning

High circulation fishing magnet

The Tornar® Grab Magnet retrieves magnetic object debris from the wellbore rapidly and reliably. With its combination of Tornar® flow ports and the most powerful magnetic elements, it can remove irregular shaped objects such as bearings, bit cones and lost tools simply and effectively.



### Benefits

- Tornar® flow ports clear particle debris to ensure full contact
- Up to 1200 kg lifting capacity
- No limitations in running speed
- No run in hole restrictions

### Applications

- Retrieval of magnetic objects from the wellbore
- Run as integral part of drillpipe toolstring to attract and retain magnetic debris

### Features

- Tornar® flow ports
- One piece mandrel
- Stabilizer blades for support on low side
- Up to 150 rpm rotation
- Multi-magnet element
- Drill pipe connection

Magnetic debris is a serious oilfield challenge, and is responsible for many of the operational difficulties and costs of well production and maintenance, particularly in high deviations and hostile conditions. Even small objects can severely jeopardize well control and integrity, with potentially hazardous consequences to people, the environment and well components.

The Tornar® Grab Magnet is equipped with the strongest magnetic elements - with a lifting capacity of over 1000 kg with full contact. To ensure that full contact is established and maintained, its unique Tornar® flow ports create a powerful cyclone effect, clearing away cuttings and other debris that may interfere with or prevent contact with the magnet.



### Specifications

Casing size, in	4 1/2	5 1/2	7	9 5/8
Casing range, lb/ft	95 - 216	13 - 28.4	17 - 38	32.3 - 58.4
Max running speed in casing	No limit	No limit	No limit	No limit
Nozzle diameter, mm	Ø9mm x 6	Ø9mm x 6	Ø14mm x 12	Ø20mm x 12
Max pump rate, LPM	2800	3200	3200	5500
Min recommended pump rate, LPM	1000	1500	2800	3200
Max set down weight on magnet, kg	500	500	2000	3000
Max magnet lift capacity, kg	100	150	up to 950	up to 1200
Max rotation speed, RPM	150	150	150	150
Max OD, in	3.30	4.40	5.787	8.300
Min OD, in	1	1	2.687	3.0
Connection	2 3/8" Reg box	2 3/8" Reg box	NC38 Boxup	NC50 Boxup
Temperature rating, °C	4 - 150	4 - 150	4 - 150	4 - 150

Specifications may be subject to change

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