

SHAKER ROOM · MAGNETIC DEBRIS RECOVERY

More magnetic capacity in the ditch, without more equipment

Operators asked for more magnetic capacity in the ditch, not more equipment on the shaker deck. Innovar developed the **Ditch Magnet**, a portable 316 stainless steel unit with **high-performance permanent magnets**. In field testing it holds **around 4 kg of swarf per magnet**, and the open body is cleaned in about 20 seconds.



Open-body Ditch Magnet loaded with dry swarf in our workshop. The magnets hold along the full length of the body.

LOCATION

Mud ditch / shaker room

CAPACITY

~4 kg swarf per magnet, field tested

CLEANING

~20 s with a standard shovel

SUPPLY

Single unit or six-unit system

CHALLENGE	SOLUTION	BENEFIT
- Ferrous debris from casing wear, milling and drill string contact stays in circulation - Debris in circulation wears pumps, screens and downhole tools - Operators want more magnetic capacity in the ditch - No appetite for more equipment on a shaker deck that is already busy	- High-performance permanent magnets in a continuous flat array along the full working length 316 stainless steel body, integral handle, free-standing legs and no moving parts - Chain anchoring, no frame and no lifting equipment - Run open or with an exchangeable fabric debris sleeve	- Around 4 kg of swarf held per magnet in field testing - Open body cleaned in around 20 seconds - One-person handling at 4.8 kg - What ends up on the magnet gives an early view of what is happening downhole



01 · Deploy. Stand it in the ditch and secure the chain.



02 · Capture. Debris is held along the full length.



03 · Clean. Scrape it off and put it straight back.

PROJECT

More capacity, not more equipment

Drilling produces ferrous debris all the time. Ditch magnets are the simplest place to catch it, and operators keep asking for the same thing: more magnetic capacity in the ditch. Innovar set out to deliver that capacity in a unit that one person can deploy, clean and move.

CHALLENGE

A busy shaker deck

Debris that stays in circulation wears pumps, screens and downhole tools. It is also useful information, since what ends up on the ditch magnet is often the first sign of what is going on downhole. Nobody wants more equipment to install, maintain and clean on the shaker deck.

SOLUTION

Engineering where it matters

Instead of adding mechanical features, Innovar spent the design effort on the magnets: **high-performance permanent magnet elements, chosen for holding capability and arranged for high magnetic density along the full working length**, moulded into a robust stainless steel body.

TECHNICAL DATA

INNOVAR DITCH MAGNET · TDS09201	
Length × height × width	520 × 330 × 120 mm
Weight	4.8 kg
Body material	316 stainless steel
Magnet elements	Continuous flat array, full working length
Swarf capacity	~4 kg per magnet, field tested
Anchoring	Chain with hooks
Cleaning	Open body approx. 20 s with a standard shovel
Sleeve	Exchangeable fabric debris sleeve (optional)
Supply	Single unit or six-unit system, sleeved or open



Six-unit system as supplied. Crated and labelled for dispatch from our base in Sola.

The Innovar Ditch Magnet is intentionally simple. When the magnets are right, it does not need to be anything else.

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