

NORTH SEA · E-LINE OPERATIONS

Magnetic cleanup and powered e-line tools in a single run

At the request of a North Sea operator, Innovar designed and manufactured the **XWW 35 E-Line String Magnet**, a string magnet with **built-in electrical feed-through**. Tools that depend on power or telemetry can now run below the magnet, so debris collection and e-line work are done in the same trip.



XWW 35 E-Line String Magnet, 3½" OD. Designed and manufactured by Innovar.

LOCATION North Sea	CLIENT North Sea operator	TOOL XWW 35 E-Line, 3½" OD	RESULT Cleanup and powered tools in one run
-----------------------	------------------------------	-------------------------------	--

CHALLENGE	SOLUTION	BENEFIT
- No existing string magnet offered electrical feed-through - Tools needing power or telemetry could not be deployed below a magnet - Separate runs were needed for magnetic cleanup and powered tool operations - More rig time, operational cost and personnel exposure	- XWW 35 designed with full electrical feed-through - Standard "GO" e-line connection for seamless BHA compatibility 3½" OD as standard, 4½" OD and custom sizes on request - Roller body on both variants to minimise drag and friction	- Magnetic cleanup and powered tool operations in one run - Fewer runs per operation - Lower rig time and operational cost - Compatible with PLT logging, plug setting and combined e-line services

TYPICAL APPLICATIONS

01 Punch and plug setting in one run Mechanical punch and plug setting while the magnet captures the ferrous debris generated.	02 Debris collection during PLT logging Protects sensor accuracy and reduces the risk of repeat logging passes.	03 Combined e-line services Any combination of powered or telemetry-dependent tools below the magnet in a single trip.
---	--	---

PROJECT

A magnet that works with the e-line tools

A North Sea operator required a string magnet that could work in combination with tools that depend on both electrical power and telemetry. The client approached Innovar with a clear requirement: keep full magnetic debris collection, and allow electrical continuity through the tool body to any tool deployed below it.

CHALLENGE

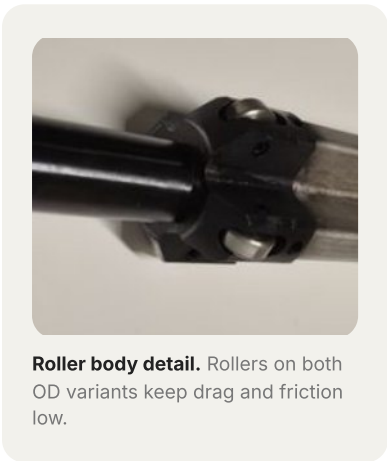
Two runs where one should be enough

Conventional string magnets have no electrical feed-through. The operator had to choose between running the magnet and running the powered tool. Doing both meant separate runs, additional cost and extended time on location.

SOLUTION

The signal goes straight through

The **XWW 35** integrates an electrical feed-through directly into the string magnet body, the first tool of its kind designed for this application. Four circumferential magnet ribs capture ferrous debris throughout the run, while power and signal pass through to the BHA below.



TECHNICAL DATA

XWW 35 E-LINE STRING MAGNET			
Model	XWW 35 E-Line	E-line connection	Standard "GO"
Body OD, standard	3½" (3.5 in)	Feed-through	Electrical, power and telemetry
Body OD, optional	4½" (4.5 in), on request	Magnet ribs	4, circumferential
Custom sizes	Available on request	Friction reduction	Rollers on both OD variants

KEY BENEFITS

Electrical feed-through Power and telemetry pass through the magnet body to any tool below it.	One run, two jobs Magnetic cleanup and powered tool operations in a single trip in hole.	Standard "GO" connection Seamless compatibility with the existing e-line BHA.	Rollers on both sizes Less drag and friction against the tubing wall.	Sizes on request 3½" OD standard. 4½" OD and other sizes to suit the wellbore.
--	--	---	---	--

With the XWW 35 the magnet no longer stands in the way of the e-line tools. **Clean up and run powered tools in the same trip.**

INNOVAR
INNOVAR SOLUTIONS · MAGNETIC RECOVERY TECHNOLOGY
sales@innovar.no · +47 95 44 95 00
innovar.no/contact