

# THE X WING® AND MODULAR X WING® FISHING MAGNET

**Innovar laser focused magnet technology**

**Maximum Magnet force against the pipe wall**

## APPLICATIONS

- Removal of ferrous debris in the pipe and plug setting area
- The modular version can be combined with our Magnum Fishing Magnet® or be a part of any clean up assembly

## FEATURES

- Magnetic force directed against the pipe wall
- Size available from 1,70" up to 8,30" OD
- Modular version available in OD 3,50" and 4,50"
- SR threads matching the magnet size and weight
- Modular design equipped with SR threads in both ends for greater versatility allowing combination of several units and sizes

## BENEFITS

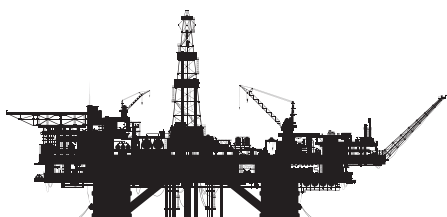
- Large magnetic area based on Innovar magnet technology
- Flexible and cost efficient modular system
- Certified magnetic shielding for flight/ helicopter according to IATA regulations

The X Wing® and Modular X Wing® tools are perfect wireline tools for removal of ferrous debris in the tool run area or plug setting area.

To maximize tool efficiency the standard X Wing® design is based on several small magnets with the magnetic field directed against the pipe wall. The X Wing® for wireline comes in sizes 1.7 - 8.3 ", and have SR connections matching the magnet size and weight.

The Modular X Wing® gives you the opportunity to run our extraordinary magnet solutions with any other application. Equipped with SR threads at the top and bottom the Modular X Wing® can be combined with most other tools in a clean-up assembly. Several units and sizes can easily be assembled.

The great magnet mass of the Modular X Wing® makes it even stronger and more efficient at catching debris. It also comes with guide wheels to avoid friction. The Modular X Wing® comes in two different sizes: 3,5" and 4,5" OD.



## X WING FISHING MAGNET® FOR PIPE & WIRELINE

Dimensional data							
Model	FM111	FM122	FM121	FM108	FM132	FM119	FM110
Max OD, inch	8,30	5,71	4,50	3,50	3,50	2,50	1,70
Fish neck OD, inch	3,52	3,13	2,31	2,32	2,0	1,75	1,18
Length, mm	600	500	496	382	520	313	316
Material properties							
Body material	AISI4140	AISI4140	AISI4140	AISI4140	AISI4145	AISI4140	AISI4140
Magnet size, mm	Ø30x40 Ø75x100	Ø20x30 Ø50x50	Ø20x20 Ø50x50	Ø20x10 Ø30x40 Ø25x30	Ø20x20 Ø20x22	Ø20x10 Ø25x20	Ø10x10 Ø20x20
Magnet quantity	85	117	109	51	50	19	73
Magnet type	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified
Operational data							
Lifting capacity, kg	270	43	43	NA	NA	21	NA
Connection	1 9/16" SR pin	1 9/16" SR pin	1 1/16" SR pin	1 1/16" SR pin	1 1/2" AMMT box	1 1/16" SR pin	15/16" SR pin
Guide wheels	No	No	No	No	No	No	No
Transport Data							
Tool weight, kg	59	26	15	6	10,8	3	1,8
Helicopter shielded	No	Yes	Yes	Yes	Yes	Yes	Yes

## MODULAR X WING FISHING MAGNET® FOR WIRELINE

Dimensional data				
Model	MX301	MX101	MX300	MX100
Max OD, inch	4,50	4,50	3,50	3,50
Fish neck OD, inch	2,30	2,30	2,30	2,30
Length, mm	1467	600	1467	600
Material properties				
Body material	AISI4145	AISI4145	AISI4145	AISI4145
Tensile yield, lbs	61 000	61 000	61 000	61 000
Number of magnet ribs	4	4	4	4
Magnet type	Innovar specified	Innovar specified	Innovar specified	Innovar specified
Operational data				
Lifting capacity, kg	NA	NA	NA	NA
Connection	1 1/16" SR pin x box	1 1/16" SR pin x box	1 1/16" SR pin x box	1 1/16" SR pin x box
Guide wheels	Yes	Yes	Yes	Yes
Transport Data				
Tool weight, kg	45	15	31	11
Helicopter shielded	Yes	Yes	Yes	Yes

