

MAGNUM FISHING MAGNET® AND MAGNUM X FISHING MAGNET®

**Innovar laser focus magnet technology
Up to 2800 kg lifting capacity**

APPLICATIONS

- For pipe & wireline
- Retrieve debris with magnetic properties
- Run as a fishing magnet or preventive, to remove debris that could adversely affect other tool's performance.

FEATURES & BENEFITS

- Laser focus magnet technology
 - Magnetic field focused towards the fish
 - No disturbing magnetic field towards pipe wall
- Up to 2800 kg lifting capacity
- Working temperature of 160°C
- Sizes 1,25" up to 12,10" OD
- Flat bottom magnets
- Magnets for pipe equipped with WirlTool® circulation ports
- Designed to pick-up larger items
- One piece rugged construction

MAGNETIC SHIELDING FOR FLIGHT/ HELICOPTER:

- Certified according to IATA regulations
- Not classified as dangerous goods
- Quick mobilization
- Reduce time waiting for equipment
- Cost efficient

The strongest fishing magnets available on the market with a lifting capacity of up to 2800 kg.

The Innovar magnum fishing magnets can be used to retrieve debris with magnetic properties. It can be run as a fishing magnet or preventive to remove debris that could adversely affect other equipment's performance.

The Magnum Fishing Magnet® is constructed with one large magnet assembly. The Innovar laser focus magnet technology centers the magnetic field down towards the fish, ensuring that all the energy is used to catch the lost object. The magnetic field towards the pipe wall is thereby minimized.

With the use of one large magnet element, Innovar ensures a greater lifting capacity with up to 2800 kg and a working temperature of up to 160°C.

The Magnum Fishing Magnet® is built as one piece to prevent the tool from failing, and pipe models are equipped with WirlTool® circulation ports.

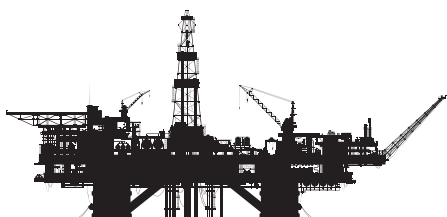


MAGNUM FISHING MAGNET® FOR PIPE

Dimensional data						
Model	FM135L	FM128L	FM 116L	FM 127	FM 114	FM 113
Max OD, inch	12,10	8,30	5,75	4,30	3,30	2,30
Fish neck OD, inch	6,38	6,38	5,36	3,75	2,95	1,97
Length, mm	730	678	493,5	350	300	300
Material properties						
Body material	AISI 4145	AISI 4145	AISI 4145	S2377 Duplex	S2377 Duplex	S2377 Duplex
Magnet size, mm	Ø280	Ø180	Ø130	Ø100	Ø75	Ø50
Magnet quantity	1	1	1	1	1	1
Magnet type	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified
Operational data						
Lifting capacity, kg	2800	1800	700	170	100	40
Connection	NC 50	NC 50	NC 38	2 7/8" Reg box	2 3/8" PAC	1 1/2" AMMT
Circ ports, mm	4 x Ø45	4 x Ø45	4 x Ø25	4 x Ø15	4 x Ø 1/2"	4 x Ø 1/2"
Max rotation, rpm	40	40	40	40	N/A	N/A
Transport Data						
Tool Weight, kg	159	96	49	18	10	5
Helicopter shielded	Yes	Yes	Yes	No	Yes	Yes
Choke insert available	Yes	Yes	No	No	No	No

MAGNUM FISHING MAGNET® FOR WIRELINE

Dimensional data						
Model	FM 117	FM 105L	FM 106L	FM 126L	FM 129	FM 120L
Max OD, inch	4,50	3,30	2,75	2,25	1,58	1,25
Length, mm	727	500	276	278	325	293
Material properties						
Body material	4140 L80	AISI 4140	AISI 4145	Duplex	AISI 4145	AISI 4145
Magnet size, mm	Ø100	Ø75	Ø50	Ø50	Ø30	Ø25
Magnet quantity	1	1	1	1	2	1
Magnet type	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified
Operational data						
Lifting capacity, kg	360	125	60	50	25	15
Connection	1 1/16" SR pin	1 1/16" SR pin	15/16" SR pin	15/16" SR pin	15/16" SR pin	15/16" SR pin
Guide wheels	18	16	No	No	No	No
Transport Data						
Tool Weight, kg	35	16	6	5	3	2
Helicopter shielded	No	Yes	Yes	Yes	Yes	Yes



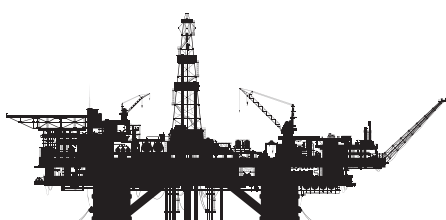
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MAGNUM X FISHING MAGNET® FOR PIPE

Dimensional data						
Model	FMP 23ss 15AM	FMP 33ss 15AM	FMP 33ss 238P	FMP 45ss 238R	FMP 58ss NC38	FMP 83 NC50
Max OD, inch	2,30	3,30	3,30	4,50	5,75	8,3
Fish neck OD, inch	2,00	2,00	2,87	3,13	5,00	6,375
Length, mm	392	465	465	465	517	697
Material properties						
Body material	AISI 4140	AISI 4140	AISI 4140	AISI 4140	AISI 4140	AISI 4145
Magnet size, mm	Ø50	Ø75	Ø75	Ø100	Ø130	Ø180
Magnet quantity	1	1	1	1	1	1
Magnet type	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified	Innovar specified
Operational data						
Lifting capacity, kg	120	320	320	600	920	1600
Connection	1,5" AMMT	1,5" AMMT	2 3/8" PAC	2 3/8" Reg	NC38	NC50
Circ ports, mm	4xØ12	4 xØ12	4 x Ø12	4 x Ø16	4 x Ø20	4 x Ø30
Max rotation, rpm	40	40	40	40	40	40
Sour Service (Nace MR0175)	Yes	Yes	Yes	Yes	Yes	No
Choke insert available	No	No	No	No	No	Yes
Transport Data						
Tool Weight, kg	5,8	12	14,2	25	45	120
Helicopter shielded	On request	On request	On request	On request	On request	On request

MAGNUM X FISHING MAGNET® FOR WIRELINE

Dimensional data				
Model	FMW 15ss	FMW 23ss	FMW 33ss	FMW 45ss
Max OD, inch	1,50	2,30	3,30	4,50
Fish neck OD, inch	1,19	1,37	2,31	2,31
Length, mm	225	254	270	331
Material properties				
Body material	AISI 4140	AISI 4140	AISI 4140	AISI 4140
Magnet size, mm	Ø30	Ø50	Ø75	Ø100
Magnet quantity	1	1	1	1
Magnet type	Innovar specified	Innovar specified	Innovar specified	Innovar specified
Operational data				
Lifting capacity, kg	28	120	320	600
Connection	15/16" SR	15/16" SR	1 1/16" SR	1 1/16" SR
Guide wheels	No	No	No	No
Sour Service (Nace MR0175)	Yes	Yes	Yes	Yes
Transport Data				
Tool Weight, kg	1,7	4,2	10	21,2
Helicopter shielded	On request	On request	On request	On request



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