

Cased-Hole I-Wheel®

Provides lift and reduces contact with the wellbore

Applications

- Cased-hole
- Perforating

Features and Benefits

- Provides lift and reduces contact with the wellbore
- Creates standoff via free spinning and self-orienting design that drastically reduces the risk of differential sticking
- Free spinning and self-orienting assist deployment

Tool Description

The Weatherford cased-hole I-Wheel creates low contact areas that keep the tool body off the low side of the bore wall, with a gap to pass over problem areas. They can be placed anywhere along the toolstring and are efficient, consistent, and reliable tools in highly deviated wells up to 84° and reduce modelled friction by up to 80%.

Cased-hole I-Wheels are routinely used to convey perforating guns. They can be placed above, below, or between gun sections, with the detonating cord run through the mandrel. They allow the gun to rotate independently of the wheels, assisting on the orientation of shot in high-or low side perforating.

A wide range-of I-Wheel designs are available for any tubing, casing, or borehole size. Optional in-line or over-body-variants enable the best tool configuration for optimum deployment. Custom-engineered sizing and bespoke mounting variants are developed upon request to suit specific applications and well conditions.



E-Line I-Wheel (Inline)



Perforating Tandem Sub (Inline)



Bullnose (Inline)



Slipover



Cased-Hole I-Wheel®

Environmental Specifications

Maximum temperature	450°F (232°C)
Maximum pressure	25,000 psi (172 MPa)
Material hub/wheel	17-4 PH/H1150 Stainless Steel

Mechanical Specifications

I-Wheel hub OD	1.5 in. (38 mm)	1.69 in. (43 mm)	2.0 in. (51 mm)	2.875 in. (73 mm)	3.375 in. (86 mm)	4.5 in. (114 mm)
Hub make-up length	1.7 in. (44 mm)	2.5 in. (63 mm)	3.1 in. (80 mm)	3.4 in. (87 mm)	3.6 in. (92 mm)	4.2 in. (107 mm)
Tubing / casing range	I-Wheels range from 2-3/8 in. tubing up to 7 in. casing					

Accessories

Perforating Gun Available Sizes							
Gun OD	2.0 in. (51 mm)	2.75 in. (70 mm)	2.875 in. (73 mm)	3.125 in. (79 mm)	3.375 in. (86 mm)	3.50 in. (89 mm)	4.50 in. (114 mm)
Gun makeup length	Varies depending on customer requirements						
E-line Sub Available Sizes*							
Sub OD	1.5 in. (51 mm)	1.69 in. (43 mm)	2.0 in. (51 mm)	2.125 in. (73 mm)	2.50 in. (64 mm)	2.75 in. (70 mm)	2.875 in. (73 mm)
Sub OD	3.125 in. (79 mm)	3.375 in. (51 mm)	3.5 in. (89 mm)	3.625 in. (92 mm)	3.875 in. (98 mm)	4.0 in. (102 mm)	4.5 in. (114 mm)
Sub makeup length	Varies depending on customer requirements						
Slipover Sleeve Available Sizes							
Tool OD	1.5 in. (38 mm)	1.69 in. (43 mm)	2.0 in. (51 mm)	2.125 in. (73 mm)	2.50 in. (64 mm)	2.75 in. (70 mm)	2.875 in. (73 mm)
Makeup length (n/a)	Slipover Sleeves attach onto the toolstring which reduces toolstring length						

*Connections to suit customer requirements.

