

I-Wheel™ Tandem Sub

Reliably convey perforating gun assemblies into highly deviated wellbores using Impact Selector's friction reducing I-Wheel™ technology

The I-Wheel™ Tandem Sub is an inline conveyance solution designed to replace perforating tandem subs with a rollerized design that minimizes friction and allows explosives to reach further in deviated wells.



The custom engineered sub is specifically designed to facilitate the deployment of Impact Selector's patented I-Wheel™ in perforating gun strings. It features perforating gun thread connections and a profile to suit the I-Wheel™.

The I-Wheel Tandem Sub is efficient, consistent, and reliable in highly deviated wells up to 84°. It can be placed above, below, or between gun sections, with the detonating cord run through the mandrel. The entire gun assembly is lifted onto highly efficient rollers, eliminating modeled contact friction by up to 80% and allowing easier and deeper wellbore access without the need for wire-line tractors.

When used in combination with an eccentric weight bar, Impact Selector's i-Wheel™ Tandem sub significantly reduces the torque required to orient the string.

I-Wheel™ Tandem Subs are available in a wide range of sizes and can be ordered with a choice of connection types to suit individual gun system requirements.

Features

- ▶ Inline roller system to assist conveyance
- ▶ Perforating gun threads compatible with industry standard perforating equipment
- ▶ Compatible with all industry guns systems
- ▶ Multiple subs may be placed anywhere in gun string
- ▶ Optional port to access detonating cord and switch
- ▶ Low maintenance requirements

Benefits

- ▶ Reduce modelled friction by up to 80%
- ▶ Reach extended depths and deviations up to 84°
- ▶ Deploy longer and heavier perforating gun assemblies in deviated wells
- ▶ Lift perforating gun assemblies
- ▶ Assist oriented perforating
- ▶ Enables smooth operation during RIH and POOH

Environmental Specifications

Maximum Temperature (°F / °C)	450 / 232
Maximum Pressure (psi / MPa)	25,000 / 172
Material Body/Wheels	17-4PH H1150 Stainless Steel

Mechanical Specifications

Tandem Sub OD (in / mm)	2.75 / 70	2.875 / 73	3.125 / 79	3.375 / 86	Custom-engineered sizes and connections available upon request to suit customer requirements
I-Wheel Hub OD (in / mm)	2.875 / 73	2.875 / 73	2.875 / 73	3.375 / 86	
Wheel Size	Wheel size and operation dependent on tool OD and tubing/casing restrictions				