

FirstSubsea

Coiled Tubing Handling Tool

First Subsea's Ballgrab® Coiled Tubing Handling Tool (CTHT) is designed for the deployment of risers and pipeline tubing. The tool provides a secure grip without damaging the tubing and, with a lower outer profile than the reeled tubing; it can be easily passed through the gooseneck of the installation system. The tool is designed, manufactured and tested to comply with "DNV for Lifting Appliances". The ease of use and versatility of the CTHT ensures it makes a significant contribution to the speed and safety of both onshore and offshore riser and pipe handling operations.

Ball and Taper

First Subsea's Ballgrab® connectors have a proven history with over 700 systems being supplied into a multitude of markets for subsea mooring, case running, pipe recovery, internal lifting, riser connections and tendon lift tools. Our class leading connectors are based on ball and taper technology, which ensures their suitability for any application involving gripping, pulling and holding connections under load.



Schlumberger Norge 1.5 Inch Coiled Tubing Handling Tool

Ball and taper connection technology, in its simplest form, is the action of balls held securely in tapers machined into the connector's mandrel. The balls are free to move up and down the taper, however when the balls grip the item to be held, they grasp it in direct proportion to the load applied.

Utilising ball and taper technology, First Subsea's Ballgrab® connectors can be used in a wide variety of scenarios.

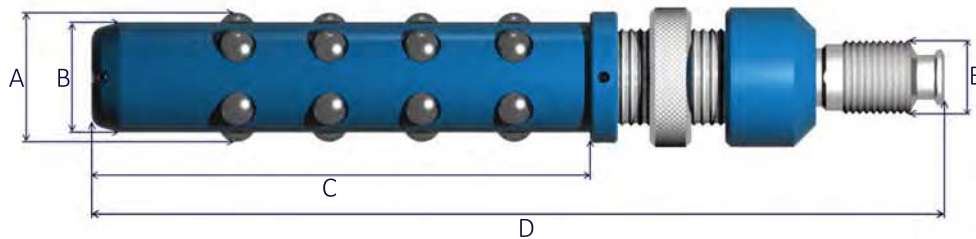
Features

- Pipe Size: 3/4 Inch to 4.5 Inch (Bespoke sizes available)
- Typical threaded interface
- Bespoke tools made to order, 4 to 6 weeks ARO
- Smaller outer profile than reeled tube for gooseneck installation systems
- Field proven designed for multiple lifts
- All our range of CTHTs are CE marked and certified
- Minimum damage to coiled tubing



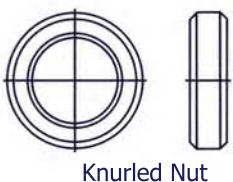
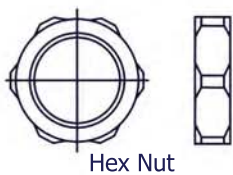
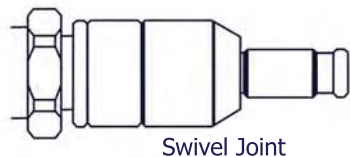
Offshore Coiled Tubing

Tool (Inch)	A Ballcage Diameter (mm)	B Max Ball Diameter (mm)	C Insertion Length (mm)	D Overall Length (mm)	E Interface (Metric)
1	18.7	25.0	168.0	234.5	M16 x 2.0
1.25	22.0	29.0	206.5	274.5	M16 x 2.0
1.25	24.5	30.0	232.0	302.5	M16 x 2.0
1.5	27.0	35.0	224.0	297.5	M16 x 2.0
1.5	30.0	36.0	227.0	300.5	M16 x 2.0
1.75	32.5	39.0	230.0	303.5	M16 x 2.0
1.75	34.0	41.0	230.0	303.5	M16 x 2.0
2	39.0	48.0	291.0	373.5	M24 x 3.0
2	41.0	47.5	243.0	321.5	M24 x 3.0
2.375	47.5	56.0	287.0	371.5	M24 x 3.0
2.544	62.0	71.0	270.0	499.0	2 1/4" - 3 ACME
2.625	50.0	65.0	355.5	449.0	M30 x 3.5
2.875	55.0	64.4	189.0	351.5	1 1/4" - 12 UNF
3.5	72.0	87.0	285.0	399.0	M30 x 3.5
4.5	97.0	103.1	262.0	433.0	2" ACME



Design Code	DNV Standard for Certification No. 2.22 Lifting Appliances
WLL Working Load	Typically 2T Any load possible
Proof Load Test	In accordance with DNV Standards typically WLL x 1.22
Operation	Simple stab in action Secondary lock available

Interface Options



First Subsea's CTHT can also be supplied with any form of thread or any form of interface, such as a clevis head or padeye, to suit any customer specification and application.

It is the ball and taper mechanism that lies behind our strong, reliable connectors. Speed, ease of use and versatility make this technology so significant. Our class leading products are tried, tested and proven in service in a wide range of applications meaning there is always a Ballgrab® for you.

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