

# DS-HTT SERIES SUB SEA BOLT TENSIONERS



DS-HTT Series Bolt Tensioners are specially designed for subsea applications. These Tensioners are suitable for higher pressure rating flanges also. It's ergonomic design makes it very easy to handle and use by divers under the harsh sea conditions. These tensioners are designed to provide a wide range of flexibility, covering stud sizes 3/4" to 3.1/2" (M-18 to M-85).

The tool consists of two basic parts-Tensioning Unit and Puller Nut as shown

**QUALITY  
STEEL**

The Complete tool is made from high strength stainless steel for use in corrosive sea environment and to minimize maintenance. Optional alloy steel construction also available.

**VERSATILE  
DESIGN**

Designed to provide a wide range of flexibility, covering stud sizes 3/4" to 3.1/2" (M-18 to M-85) using just 8 load cells.

**HIGH LOAD  
GENERATION**

Generates higher load making it suitable for high pressure rating flanges (API 170 - 10K).

**STROKE  
INDICATOR**

All tensioners have a 25mm long stroke with piston marked with fluorescent rings for indication of stroke and over stroke limit.

**SAFE  
DESIGN**

Designed to release high pressure hydraulic oil inward in the event of over-stroke thus saving the operator from any potential exposure.

Fluorescent band provided on load cell body for easy tool identification in poor visibility conditions.

Provisioned with detachable hooks and straps for easy handling under water.

**MULTI  
TENSIONING**

The tensioning unit cell is provisioned with two connections that act as a manifold for multi tensioning applications.

**ANTI ROLL  
SEALS**

Fitted with Anti Roll, Composite Material seals for longer life and high reliability. The seals used have a low coefficient of friction so that the piston can be returned to a closed position with minimal effort. Sub Sea tensioners can be provided with machined PU (poly urethane) seals if requested.

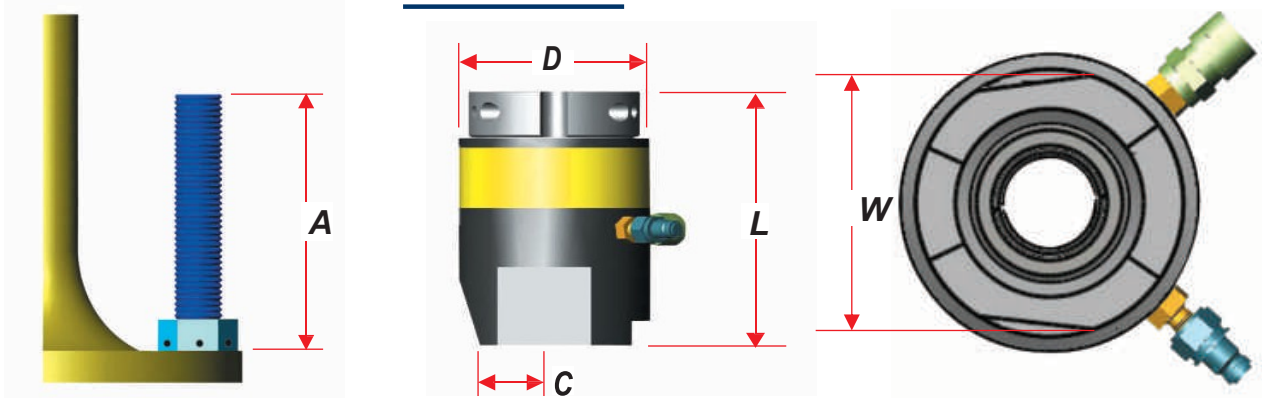
**OPTIONAL SPLIT  
NUT**

Optional Split Nut available for fast and easy fitment which ensures most efficient use of expensive dive time.

**EASY TO  
HANDLE**

Knurled and formed surface allows easy handling.

# DS-HTT SUB SEA BOLT TENSIONERS



Model No.		Bolt Size		Max Load		Hyd Area		D	C	W	L	A	Weight
Load Cell	Puller Nut	inch	mm	Ton	kN	in <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm	mm	mm	Kg.
DS-HTT-03	DS-HT03-0.12	3/4"	M20	21.2	188	1.95	1256	65	30	46	100	122	2.0*
	DS-HT03-M20												0.3
	DS-HT03-0.14	7/8"											0.3
DS-HTT-04	DS-HT04-M24		M27	34.7	309	3.19	2061	86	30	64	123	153	4.0*
	DS-HT04-1.00	1"											0.1
	DS-HT04-M27												0.7
	DS-HT04-1.02	1.1/8"											0.7
DS-HTT-05	DS-HT04-M30		M30										0.7
	TL-PT05-1.04	1.1/4"	M33	54.2	482	4.98	3215	98	30	78	138	171	5.5*
	TL-PT05-M33												0.7
	TL-PT05-1.06	1.3/8"											0.7
TL-PT05-M36		0.7											
DS-HTT-07	TL-PT07-1.08	1.1/2"	M39	79.4	706	7.3	4710	117	30	93	147	186	7.4
	PT-PT07-M39												0.8
	DS-PT07-1.10	1.5/8"											0.8
	DS-HT07-M42												0.8
DS-HTT-11	DS-HT11-1.12	1.3/4"	M45	119.1	1060	10.95	7065	138	60	113	152	197	13.5
	DS-HT11-M45												3.5
	DS-HT11-1.14	1.7/8"											3.5
	DS-HT11-M48												3.5
	DS-HT11-2.00	2"											3.8
	DS-HT11-M52												3.8
DS-HTT-15	DS-HT15-M56		M60	174.7	1554	16.06	10362	164	60	141	171	229	20.7
	DS-HT15-2.04	2.1/4"											5.0
	DS-HT15-M60												5.0
	DS-HT15-2.08	2.1/2"											5.2
	DS-HT15-M64												5.2
DS-HTT-20	DS-HT20-2.12	2.3/4"	M72	219.4	1952	20.17	13011	190	60	166	194	266	23.5
	DS-HT20-M72												5.2
	DS-HT20-M76												5.2
	DS-HT20-3.00	3"											5.2
DS-HTT-27	DS-HT20-M80		M85	268.7	2390	24.7	15935	214	60	191	208	288	31.5
	DS-HT27-3.04	3.1/4"											6.5
	DS-HT27-M85												6.5
	DS-HT27-3.08	3.1/2"											6.5

\* Weight of Load Cell + Puller Nut.