

## EziTite® Hydraulic Nut

The EziTite® Hydraulic Nut is a precision engineered, high pressure, high performance, hydraulically operated bolt tensioning device that can be quickly and easily fitted and used with Technofast pumping equipment (eg. Hand Pumps, Electric / Hydraulic or Air / Hydraulic).

It is manufactured in a choice of steel or stainless steel of tensile strength to suit the required application.



### Features:

The patented design of the EziTite® has given it improved technical efficiency of operation and cost/benefit advantages over other tensioning devices. The EziTite® provides advantages such as:

- Reduces maintenance down time.
- Improves safety on the job.
- Gives reliable and precise tensioning.
- Is user-friendly.
- Fast to fit and remove.
- Requires little physical effort.

### Currently used in:

- Mines
- Quarries
- Steel Mills
- Steel Recyclers
- Manufacturing Plants
- Power Stations
- Desalination Plants
- Wind Farms
- Construction / Heavy Industry

### Applications (examples):

- Dragline: Pivot Motors, Pedestal Housing, Drag Motors, Hoist Motors
- Wash Plants: Vibrating Screens
- Quarries: Crusher Shells & Jaws
- Steel Mills & Recyclers: Shredders
- Shovels: Side Frame Bolts, Motor Mounts, Boom Sheave Pedestals
- Heavy Industry: Flanges

### Suitable for:

The EziTite® is suitable for use where:

- Accurate and reliable loading is required on bolting.
- Vibrational or torsional stresses are a problem.
- Regular maintenance requires repeated adjustment or removal of nuts.
- There are confined and difficult nut locations.

### Operation

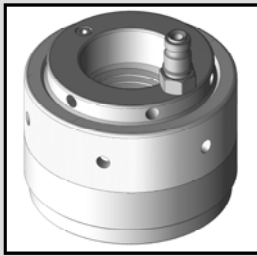
The EziTite® assembly is screwed by hand onto the bolt (replacing the original nut) until the base is tight against the working face. Hydraulic pressure is then applied through the nipple fitting on top of the nut body into the sealed chamber, forcing the piston and the nut body apart, thus stretching and tensioning the bolt through the joint.

The threaded lockring, mounted on the nut body, is then screwed against the abutting face to retain the induced load in the bolt. The pressure is then simply released and the hydraulic coupling removed from the nipple fitting, to complete the operation.

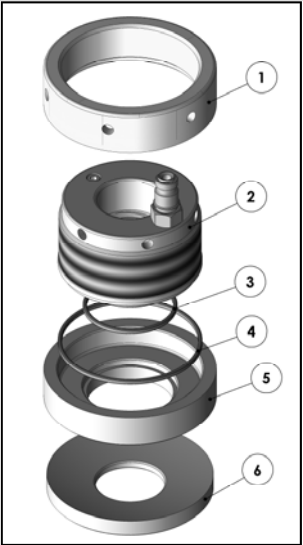
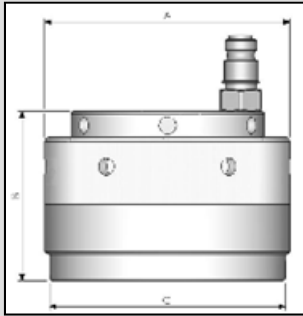


technofast  
precision engineered solutions





# EziTite<sup>®</sup> Hydraulic Nut Specifications

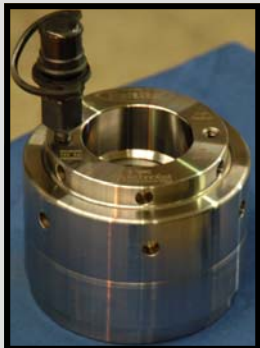


Model Part No.	Thread Size	Force produced (kN)	(A) Nut OD (mm)	(B) Height short stoke (mm)	(B) Height long stoke (mm)	Short Stroke (mm)	Long Stroke (mm)	(C) Washer Dia
EZI-CM24X3	M24	57	Ø58	61	73	6	12	Ø52
EZI-CI100U	1	64	Ø58	61	73	6	12	Ø52
EZI-CI102U	1.125	80	Ø64	63.5	75.8	6	12	Ø58
EZI-CM30X35	M30	86	Ø68	66.2	78.2	6	12	Ø62
EZI-CI104U	1.25	106	Ø72	65.5	77.5	6	12	Ø68
EZI-CI106U	1.375	119	Ø78	68	80	6	12	Ø74
EZI-CM36X4	M36	135	Ø78	68	80	6	12	Ø74
EZI-CI108U	1.5	143	Ø82	69.7	81	6	12	Ø78
EZI-CI110U	1.625	177	Ø88	72.5	84.5	6	12	Ø82
EZI-CM42X45	M42	177	Ø88	72.5	84.5	6	12	Ø82
EZI-CI112U	1.75	186	Ø94	79.2	102.2	8	20	Ø86
EZI-CM48X5	M48	234	Ø104	80.2	103.2	8	20	Ø98
EZI-CI200U	2	245	Ø108	86.9	108.9	8	20	Ø102
EZI-CM56X55	M56	335	Ø122	90.6	112.6	8	20	Ø116
EZI-CI204U	2.25	335	Ø122	90.6	112.6	8	20	Ø116
EZI-CI208U	2.5	439	Ø136	96.1	116.1	8	20	Ø132
EZI-CM64X6	M64	439	Ø136	96.1	116.1	8	20	Ø132
EZI-CI212U	2.75	527	Ø150	105	122.9	8	20	Ø146
EZI-CM72X6	M72	527	Ø150	105	122.9	8	20	Ø146
EZI-CI300U	3	638	Ø160	107	124	8	20	Ø156
EZI-CM80X6	M80	706	Ø170	108.5	125.5	8	20	Ø162

Model Part No.	Thread Size	Force produced (kN)	Nut OD (mm)	Height short stoke (mm)	Height long stoke (mm)	Short Stroke (mm)	Long Stroke (mm)	Washer Dia
EZI-HM24X3	M24	160	Ø70	59.9	72	6	12	Ø66
EZI-HI100U	1	160	Ø70	59.9	72	6	12	Ø66
EZI-HI102U	1.125	171.9	Ø74	62.3	74.3	6	12	Ø68
EZI-HM30X35	M30	249.3	Ø84	65	77	6	12	Ø80
EZI-HI104U	1.25	249.3	Ø84	65	77	6	12	Ø80
EZI-HI106U	1.375	277.9	Ø92	68.3	80.3	6	12	Ø88
EZI-HM36X4	M36	357	Ø100	69.6	80.6	6	12	Ø96
EZI-HI108U	1.5	332.5	Ø100	69.6	80.6	6	12	Ø96
EZI-HI110U	1.625	409	Ø110	78.9	88.9	6	12	Ø106
EZI-HM42X45	M42	456	Ø114	78.3	88.3	6	12	Ø110
EZI-HI112U	1.75	456	Ø114	80.3	103.3	8	20	Ø110
EZI-HM48X5	M48	629.3	Ø128	84	106	8	20	Ø124
EZI-HI200U	2	598.5	Ø128	84	106	8	20	Ø124
EZI-HM56X55	M56	821.1	Ø146	89.5	110.5	8	20	Ø142
EZI-HI204U	2.25	785.4	Ø146	89.5	110.5	8	20	Ø142
EZI-HI208U	2.5	940.5	Ø156	95.6	115.6	8	20	Ø152
EZI-HM64X6	M64	1108.4	Ø166	95.8	115.8	8	20	Ø162
EZI-HI212U	2.75	1128.3	Ø172	100.6	120.6	8	20	Ø168
EZI-HM72X6	M72	1474.9	Ø190	99.5	119.5	8	20	Ø186
EZI-HI300U	3	1379.9	Ø190	99.9	119.9	8	20	Ø186
EZI-HM80X6	M80	1770.3	Ø206	105.9	124.9	8	20	Ø202

## EziTite<sup>®</sup> Hydraulic Nuts consist of:

1. Locking Nut Body
2. Inner seal
3. Outer seal
4. Piston



All standard EziTite<sup>®</sup> Hydraulic Nuts come standard with CEJN type male snap fittings, 1/8" BSPP porting and bleed plugs.

- EziTite<sup>®</sup> Hydraulic Nuts are supplied with spherical washers as standard
- Maximum force is generated using maximum operating pressure



If the standard range above does not suit, our technical staff will modify the design to suit the application



Commercial grade Imperial EziTite nuts are calculated at approximately 65% proof load of a SAE Grade 2 bolt.  
Commercial grade Metric EziTite nuts are calculated at approximately 65% proof load of a Grade 4.6 bolt.  
Maximum operating pressure for commercial grade is 700 Bar

High Tensile Grade Imperial— are calculated at approximately 65% proof load of a SAE Grade 5 bolt.  
High Tensile Grade Metric— are calculated at approximately 65% proof load of a Grade 8.8 bolt.  
Maximum Operating pressure for High Tensile grade is 1000 Bar