

HydraNut

Hydraulic Nut Description



The HydraNut is a precision engineered, high pressure, high performance, hydraulically operated bolt tensioning device that can be quickly and easily fitted and used with standard pumping equipment (eg. hand operated pressure pumps).

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

Applications

The HydraNut 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.

Typical HydraNut applications are found in many industries, including:

- Mining & Quarrying
- Oil drilling
- Marine
- Power Generation
- Agricultural
- Structural
- Heavy equipment in general industry

Features

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

- 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.

Operation

The HydraNut assembly is screwed by hand onto the bolt 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 locking , mounted on the piston, is then screwed against the abutting face to retain the induced load tension in the bolt. The pressure is then simply released and the hydraulic coupling removed from the nipple fitting, to complete the operation.

To remove the HydraNut, pressure is reapplied through the nipple fitting to unload the locking. The internal pressure is then relieved and the HydraNut can be removed easily. No major physical force, large wrenches or torque tools are required to correctly fit and remove the HydraNut.

Agent contact details



technofast
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precision engineered solutions

Technofast Industries
667 Boundary Road
Richlands 4077
Brisbane - Australia

Tel:+61 7 33751431
Fax:+61 7 33759094
sales@technofast.com
www.technofast.com

HydraNut

These dimensions are to be used as a guide only, If our standard product does not fit within your restrictions please contact our office and one of our technical staff will design a solution for your tensioning requirements.

Commercial Grade HydraNut Specifications

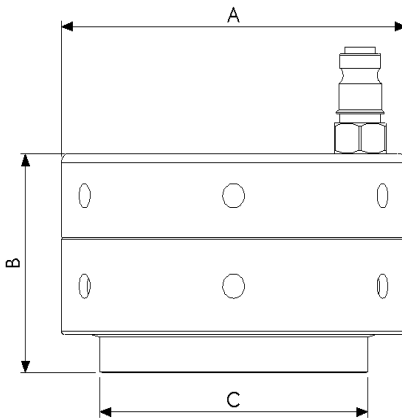
Model #	Size Imp	Size ISO	Max Force kN	Nut O.D. (A)	Height (B)	Stroke	Washer Dia (C)
CM20		M20	38	62	45	5	48
CI014	7/8"		38	62	45	5	48
CM24		M24	58	68	52	5	48
CI100	1"		75	68	53	5	56
CI102	1-1/8"		85	78	54	5	58
CM30		M30	85	78	54	5	58
CI104	1-1/4"		113	82	54	5	68
CI106	1-3/8"		143	88	56	5	68
CM36		M36	143	88	57	5	68
CI108	1-1/2"		151	98	64	5	78
CM42		M42	177	98	65	5	84
CI110	1-5/8"		186	104	66	5	84
CI112	1-3/4"		224	108	66	5	86
CM48		M48	266	114	72	5	98
CI200	2"		277	118	70	5	98
CM56		M56	359	126	73	5	98
CI204	2-1/4"		372	134	73	5	98
CI208	2-1/2"		440	144	87	8	118
CM64		M64	481	150	88	8	118
CI212	2-3/4"		512	155	87	8	128
CM72		M72	557	155	91	8	128
CI300	3"		638	165	92	8	136
CM80		M80	638	165	92	8	136

Hi-Tensile Grade HydraNut Specifications

Model #	Size Imp	Size ISO	Max Force kN	Nut O.D. (A)	Height (B)	Stroke	Washer Dia (C)
HM20		M20	99	68	47	5	48
HI014	7/8"		99	68	47	5	48
HM24		M24	161	78	52	5	58
HI100	1"		161	78	53	5	64
HI102	1-1/8"		182	82	56	5	68
HM30		M30	228	88	54	5	68
HI104	1-1/4"		228	88	54	5	68
HI106	1-3/8"		332	104	60	5	84
HM36		M36	375	104	62	5	84
HI108	1-1/2"		332	104	60	5	84
HI110	1-5/8"		392	114	72	5	98
HM42		M42	484	118	72	5	98
HI112	1-3/4"		456	118	72	5	98
HM48		M48	629	134	79	8	98
HI200	2"		598	134	79	8	108
HM56		M56	821	150	86	8	126
HI204	2-1/4"		760	144	87	8	118
HI208	2-1/2"		941	165	90	8	136
HM64		M64	1108	165	92	8	136
HI212	2-3/4"		1214	180	94	8	156
HM72		M72	1246	185	95	8	156
HI300	3"		1520	205	114	8	156
HM80		M80	1728	215	112	8	186



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All standard HydraNuts fitted with CEJN type male snap fittings, 1/8" BSPP porting and bleed plugs

- HydraNuts supplied with spherical washers as standard.
- HydraNuts typically develop around 65% of the bolt proof load at maximum operating pressure.
- Maximum force is generated at maximum indicated charge pressure.