



HYDRAJAC

DEDICATED

HYDRAJAC *description*

The HydraJac Stud Tensioner utilises the power of hydraulic pressure to easily produce the forces necessary to effectively tension bolts and studs. Once the HydraJac is in place, screwed onto the bolt's thread over the standard nut, the required pressure is applied to stretch the bolt to its recommended preload, and the nut screwed down to retain the load. The pressure is relieved, the HydraJac removed and is ready to use again.

HydraJac Dedicated Thread Stud Tensioners provide the answer to many of the fitting problems associated with using larger tensioning equipment. They are also ideal for single task applications which do not require interchangeability of thread sizes.

Any number of HydraJacs can be interlinked to provide even amounts of simultaneous tension over multiple studs or bolts as required.

Produced from high strength alloy steel, HydraJac Stud Tensioners are made in standard configurations. They can also be made to suit the requirements of a specific application.



HYDRAJAC *applications*

Typical HydraJac applications are found in many industries, including:

- Mining and quarrying
- Oil and gas industries
- Marine
- Power generation
- Agricultural
- Structural
- Heavy equipment in general industry
- Chemical plants

HYDRAJAC *features*

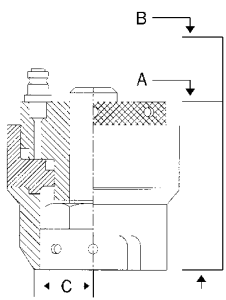
The HydraJac provides the following advantages:

- Reduces maintenance down time
- Improves safety on the job by eliminating hammer tightening
- Gives reliable and precise tensioning
- Is user-friendly – fast to fit and remove
- Requires little physical effort
- Is ideal for confined spaces or difficult locations
- Multiple tensioning for leak-free flange makeup

Although smaller and lighter than many competitive types, HydraJac Stud Tensioners are capable of high application forces. The higher forces generated by HydraJac devices permit their use with bolts of very high tensile strength, for example, in bolting of highly stressed assemblies or those prone to destructive vibration.

Operation of HydraJac at typically lower charge pressures requires less use of costly pumping equipment, and with an improved degree of safety. All HydraJac Tensioners are designed to use inexpensive seals which can be easily replaced in minutes, eliminating expensive repairs.

HYDRAJAC *technical specifications*



The A2 HydraJac features a designated thread type for optimal performance, with reduced weight and cost.

HydraJac Stud Tensioners are made in standard types:

- "A2" Models (shown here) are dedicated to a single designated thread size.
- "A3" Models can be used with a range of thread types and bolts in conjunction with suitable Adaptor Nuts. Application pressures are read from prepared charts supplied with the equipment.

HydraJac A2 and A3 Models have been specifically developed for use with flange couplings commonly used in hydrocarbon and chemical process plants.

Although rated to pressures of 100MPa, the HydraJac will typically require less than this for most applications. "Commercial" (mild steel) fasteners can typically be tensioned at charge pressures below 70MPa.

All HydraJac Stud Tensioners have exceptional working stroke length from a minimum of 15 mm for the smallest units.



A2 Model HydraJacs

HYDRAJAC A2 MODEL SPECIFICATIONS

Model No.	Size Imp.	Size ISO	Max Force (kN)	O.D. (mm)	Min Bolt Pitch (mm)	Relief (C) (mm)	Height (A) (mm)	Clearance (B) (mm)
A21010X11	5/8"	M16	126.76	52	41	23	72	108
A2M16X20								110
A2M18X25	3/4"	M18	171.99	62	46	23	76	114
A21012X10								116
A2M20X25								123
A2M22X25	7/8"	M22	264.63	72	51	26	86	133
A21014X9								134
A2M24X30	1"	M24	327.51	78	59	29	88	137
A21100X8								139
A2M27X30	1.1/8"	M27	448.67	88	65	36	93	145
A21102X8								147
A2M30X35								148
A21104X8	1.1/4"	M30	448.67	98	73	36	96	153
A2M33X35								161
A21106X8	1.3/8"	M33	679.19	108	76	39	103	161
A2M36X40								163
A21108X8								171
A2M39X40	1.1/2"	M36	810.28	118	80	42	108	171
A21108X8								171
A2M42X45	1.5/8"	M39	917.28	126	89	45	114	176
A21110X8								181
A2M45X45	1.3/4"	M42	952.61	130	94	49	118	185
A21112X8								185
A2M48X50								188
A21114X8	1.7/8"	M45	1151.01	142	102	51	122	195
A2M52X50								192
A21200X8	2"	M48	1277.72	148	110	54	124	201
A2M56X55								201
A21204X8								219
A2M60X55	2.1/4"	M52	1455.37	160	106	59	138	219
A2M64X60								221
A21208X8	2.1/2"	M56	1794.87	178	119	65	142	227
A2M68X60								240
A2M72X60								240
A21212X8	2.3/4"	M64	2116.8	192	131	65	151	240
A21300X8								244
A2M76X60	3"	M68	2579.84	215	146	71	159	256
A2M80X60								254
A21304X8								278
A2M85X60	3.1/4"	M72	2963.51	230	160	77	177	278
A2M90X60								282
A21308X8	3.1/2"	M76	3505.94	250	161	87	197	305
A2M95X60								307
A21312X8								317
A2M100X60	3.3/4"	M80	3951.35	265	172	93	202	317
A2M100X60								317
A21400X8	4"	M85	4573.16	285	202	96	218	338
A2M100X60								338
A2M100X60	4"	M90	4573.16	285	212	105	225	351
A2M100X60								350

NOTE: Stroke for all models is 15mm



A specially designed HydraJac.



Hydracacs can be custom-made to suit specific applications.

3340-B Greens Road, Suite 605
Houston, TX 77032

Phone: 281.449.9994 Fax: 281.449.9996

E-Mail sales @titanti.com

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TECHNOLOGIES INTERNATIONAL, INC

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