

ACU-DF™ - Direct Fit tensioners for wind, cranes, hydro, and many others

ACUTENSION is proud to introduce **ACU-DF™** - the Direct Fit tensioner range guaranteed to offer ISO 898-1 Gr. 10.9 proof loads within the smallest possible footprint.

Recognising the gap between larger-footprint standard tensioners and costlier multi-stage tooling, our engineers set-out to design a range of tensioners guaranteed to fit where standard puller type tensioners cannot; at a lower procurement cost than multi-stage tooling. Making use of internally threaded pistons and higher pressure hydraulics (<250 MPa), they succeeded.

ACU-DF™ offers 95% yield loading for Grade 10.9 bolts commonly specified in several industrial applications; such as:

- Wind turbines
- Cranes and slewing rings
- Hydro turbines
- Flanges and heat exchangers
- Marine/offshore



Many gasketed and mechanical joints in the field demand a tighter-fitting tool; or may preclude the application of hydraulic tension altogether. Wherever this is the question, **ACU-DF™** is the answer.

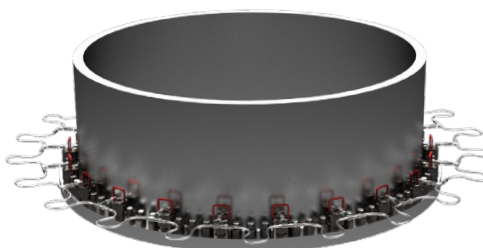
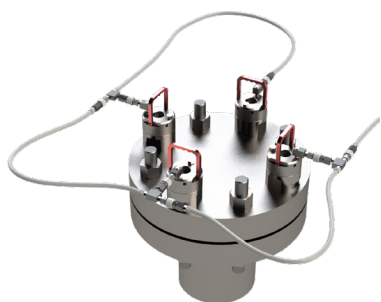
Tight bolt PCDs and overhead clearances – often the enemy of hydraulic tensioners – are no problem for the low profile design of **ACU-DF™**; which assures safe, easy use. As such, **ACU-DF™** is the most ergonomic tensioner currently on the market, featuring many interface enhancements to make even the heaviest bolting challenges an effortless task.

ACU-DF™ tensioners benefit from the following features:

- 227.5 MPa operating pressure (uprateable to 250 MPa)
- 95% bolt yield load in accordance with ISO 898-1 Gr. 10.9
- Direct-fit, threaded piston design to reduce footprint for enhanced radial clearance
- Split body/bridge design and optional swivel for enhanced vertical clearances
- 'Easy-nose' wind-down pistons
- Safe, ergonomic handle
- Available with various NRS options (standard, gear, or round nut)
- Nitride anti-wear and anti-corrosion
- Dual max stroke indication
- Test bolt FAT and CE marked



Tool Size Number	Bolt Diameter		Hydraulic Pressure Area (HPA)	Max Load		Tool Outer Diameter		Tool Height. Ex fittings		Total Tool Weight	
	mm	Inch		kN	klbf	mm	in	mm	in	kg	lbs
ACU-DF 1	M20	3/4	663	150	33.7	52	2.0	91	3.6	1	2.2
ACU-DF 2	M22	7/8	1116	254	57.1	62	2.4	91	3.6	1.6	3.5
ACU-DF 3	M24	1	1295	295	66.2	66	2.6	95	3.7	2	4.4
ACU-DF 4	M27		1702	387	87.0	74	2.9	98	3.9	2.7	6.0
ACU-DF 5	M30	1 1/8	2074	472	106.0	80	3.1	101	4.0	3	6.6
ACU-DF 6	M33	1 1/4	2565	584	131.2	89	3.5	106	4.2	3.7	8.2
ACU-DF 7	M36	1 3/8	3013	685	154.1	99	3.9	111	4.4	4.8	10.6
ACU-DF 8	M39	1 1/2	3595	818	183.9	110	4.3	114	4.5	5.7	12.6
ACU-DF 9	M42	1 5/8	4142	942	211.8	116	4.6	117	4.6	7.5	16.5
ACU-DF 10	M45	1 3/4	4814	1095	246.2	128	5.0	121	4.8	10	22.0
ACU-DF 11	M48	1 7/8	5432	1236	277.8	133	5.2	131	5.2	11.5	25.4
ACU-DF 12	M52	2	6484	1475	331.6	145	5.7	134	5.3	13.5	29.8
ACU-DF 13	M56		7497	1706	383.4	155	6.1	148	5.8	15	33.1
ACU-DF 14	M60	2 1/4	8714	1983	445.7	165	6.5	158	6.2	17	37.5
ACU-DF 15	M64	2 1/2	9883	2248	505.5	178	7.0	173	6.8	23	50.7
ACU-DF 16	M68	2 3/4	11268	2563	576.3	188	7.4	177	7.0	27	59.5
ACU-DF 17	M72		12769	2905	653.1	198	7.8	186	7.3	32.5	71.6
ACU-DF 18	M76	3	14344	3263	733.6	210	8.3	190	7.5	37	81.6
ACU-DF 19	M80		16032	3647	819.9	220	8.7	195	7.7	43	94.8
ACU-DF 20	M85	3 1/4	18158	4149	932.7	230	9.1	210	8.3	46	101.4
ACU-DF 21	M90	3 1/2	20433	4689	1054.2	245	9.6	220	8.7	50	110.2
ACU-DF 22	M95	3 3/4	22824	5261	1182.7	255	10.0	230	9.1	62	136.7
ACU-DF 23	M100	4	25358	5870	1319.6	268	10.6	275	10.8	73	160.9



Available from stock for the most common sizes, ACUTENSION can design and manufacture specialised tooling in unparalleled lead-times wherever required, from M20 (3/4in) to unlimited bolt diameter. Please contact us to discuss your bolting requirements.

ACU-DF™ - the most versatile range of hydraulic range of tensioners available.

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