

ACU-BREEZE™ - Making wind turbine tensioning operations a fluid process

ACUTENSION are proud to offer **ACU-BREEZE™** - the only wind turbine tensioner range offering both single (spring-return) and dual-acting (hydraulic) piston retraction, depending on customer preference.

Our uniquely-shaped tensioners have been engineered to capitalise upon the very latest manufacturing techniques, to ensure **ACU-BREEZE™** are not only much more ergonomic than traditional multi-stage tensioners, but both faster and safer to work with.

The advantages of using **ACU-BREEZE™**:

- Dual acting, ultra-fast hydraulic retract as standard, offering fastest possible piston return
- Retrofittable, Automatic Spring Cassette (ARC) option available for single-acting customers
- Shorter design offering unrivalled compatibility and ergonomics
- Lighter than conventional tensioning systems, particularly on larger sizes
- No manifold, fewer seals, fewer leak paths
- Works in tandem with our **ACU-HERO™** range of twin acting hydraulic pumps
- Unique dual-hex socket – no switching between bridge assemblies for standard and HV (large A/F) series nuts
- Fully integrated cycle counters also available.



ACU-BREEZE™ is much faster in operation than its peers. Utilising power hydraulics for both advance and retract phases provides a much faster tension/reset cycle.

With fewer static and moving parts, **ACU-BREEZE™** is simpler and faster to maintain; all the while compromising neither durability nor fatigue life.

Owing to its innovative, patent-pending monobody design, **ACU-BREEZE™** tensioners do not require obtrusive manifold blocks. Furthermore, a significant height reduction can be achieved by the removal the slow, cumbersome spring stack, in its dual-acting configuration.

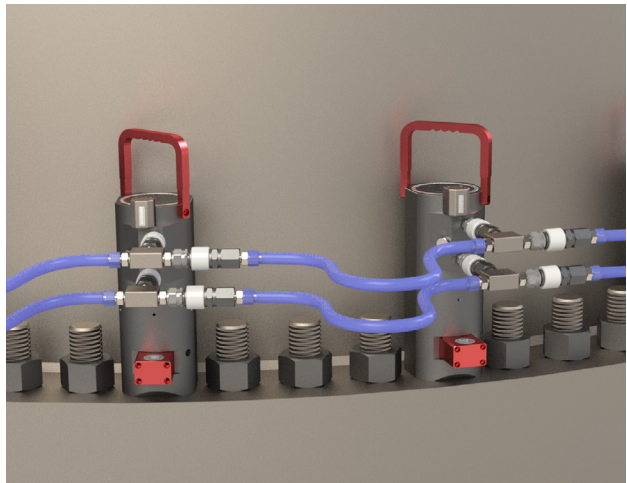
ACU-BREEZE™ is also specified as standard to include the following user-enhancement features:

- Durable, auto-snap gear-driven nut rotating socket, configurable for both standard and large A/F nuts
- High-cycle fatigue life with safety expiration mechanism
- Nitride exterior finish for enhanced corrosion protection
- Ergonomic pivoting handle
- Swivel hydraulic connections (optional)
- Engineered to be compatible with all common OEM turbines
- Designed to offer EN ISO 898-1:1999 and ASTM A490M proof loads for Grade 10.9 bolting



Tool Size Number	Bolt Diameter		Max Load		Tool Effective Diameter (AF)		Hydraulic Return Tool Height		Spring Return Tool Height		Total Max Stud Protrusion		Approx. Total Tool Weight	
	mm	Inch	kN	klbf	mm	in	mm	in	mm	in	mm	in	kg	lbs
ACU-BRZ-A150-	M24	1	294	66.1	62	2.44	186	7.32	209	8.23	66	2.60	5.3	11.68
	M27	1 1/8	375	84.3	68	2.68	198	7.80	222	8.74	70	2.76	6.2	13.67
	M30		465	104.5	73	2.87	202	7.95	226	8.90	78	3.07	7.8	17.20
	M33	1 1/4	570	128.1	80	3.15	212	8.35	238	9.37	82	3.23	9.7	21.38
	M36	1 3/8	673	151.3	86	3.39	235	9.25	264	10.39	105	4.13	11	24.25
	M39	1 1/2	806	181.2	94	3.70	236	9.29	265	10.43	92	3.62	13.5	29.76
	M42	1 5/8	925	207.9	100	3.94	269	10.59	300	11.81	111.5	4.39	15.7	34.61
	M45	1 3/4	1085	243.9	105	4.13	277	10.91	307	12.09	113	4.45	20	44.09
	M48	1 7/8	1222	274.7	111	4.37	285	11.22	315	12.40	118	4.65	22	48.50
	M52	2	1455	327.1	122	4.80	296	11.65	327	12.87	123	4.84	24	52.91
	M56	2 1/4	1676	376.8	131	5.16	314	12.36	344	13.54	132	5.20	29.5	65.04
	M60		1952	438.8	140	5.51	342	13.46	373	14.69	145	5.71	37	81.57
	M64	2 1/2	2250	505.8	150	5.91	349	13.74	382	15.04	151	5.94	43	94.80
	M72	2 3/4	2902	652.4	170	6.69	368	14.49	407	16.02	170	6.69	57.2	126.10
	M76	3	3250	730.6	180	7.09	379	14.92	418	16.46	169	6.65	65	143.30
	M80		3645	819.4	190	7.48	409	16.10	449	17.68	183	7.20	79	174.17
	M85	3 1/4	4150	932.9	202	7.95	429	16.89	461	18.15	193	7.60	91	200.62
	M90	3 1/2	3645	819.4	215	8.46	440	17.32	482	18.98	203	7.99	101	222.67

*when ordering please use syntax 'ACU-BRZ-A150-Bolt Diameter'



*Image showing tooling in single and dual acting modes.

ACU-BREEZE™ - a game-changer for the wind-turbine tensioning industry.

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