

Micro Tensioners



The Hydratight Micro Tensioners for Grade 10.9 bolts have been designed to maximize clamping forces and have been fully tested on-site in the wind energy industry.

Our Micro Tensioners are available as single deck tools for applications with a wider pitch between the bolts, or double deck tensioners for applications with a smaller pitch.

These tools have been designed for use with hexagon nuts and washers.

Features

- Lightweight, compact and easy to handle
- Safe design and operation
- Fully site tested
- High cyclic life
- Geared drive for fast nut rundown
- Over-stroke protection
- Optional swivel connection



Single Deck Micro Tensioners

Bolt Dia.		Outside Dia.		Height		Min. Nearest Obstruction		Min. Stud Protrusion		Max. Stud Protrusion		Max. Load		Max. Stroke		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kN	in	mm	lbs	kg
3/4"	M20	2.52	64	3.19	81	5.63	143	1.73	44	2.17	55	45,800	204	0.28	7	4.4	2.0
7/8"	M24	3.03	77	3.86	98	6.57	167	1.93	49	2.44	62	65,600	292	0.28	7	6.0	2.7
1-3/8"	M36	4.37	111	5.04	128	9.13	232	2.80	71	3.74	95	150,600	670	0.35	9	14.1	6.4
1-5/8"	M42	5.28	134	6.97	177	11.89	302	3.11	79	4.53	115	206,800	939	0.39	10	27.1	12.3

Double Deck Micro Tensioners

1-1/8"	M30	2.87	73	7.68	195	10.71	272	2.36	60	2.67	70	104,000	463	0.28	7	12.8	5.8
1-1/4"	M33	3.07	78	8.19	208	11.50	292	2.56	65	3.03	77	129,600	577	0.28	7	14.8	6.7
1-3/8"	M36	3.31	84	8.58	218	12.32	313	2.76	70	3.43	87	151,500	674	0.31	8	17.2	7.8
1-1/2"	M39	3.54	90	10.24	260	14.49	368	3.46	88	3.86	98	181,100	805	0.39	10	23.8	10.8
1-5/8"	M42	3.86	98	10.47	266	15.35	390	3.82	97	4.49	114	208,300	927	0.39	10	27.8	12.6
1-7/8"	M48	4.37	111	12.05	306	17.36	441	4.25	108	4.92	125	274,500	1221	0.39	10	40.6	18.4

Notes: 1. The dimensions shown are for guidance only and represent typical values / examples of Hydratight's capability.

2. Specific applications can be assessed on a case by case basis following the receipt of full application details.

Further details can be obtained from your local Hydratight representative or via the website hydratight.com.