

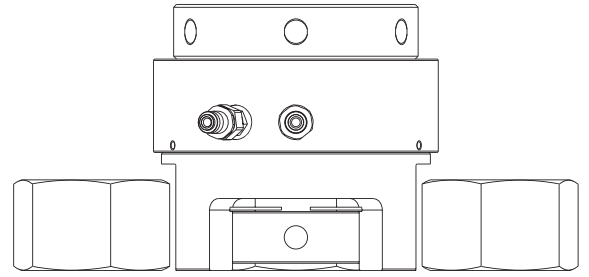
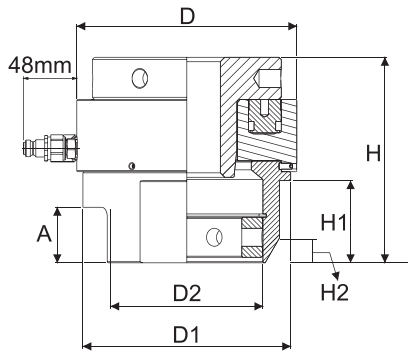
PWT Hydraulic Bolt Tensioner



- ◉ Made of high strength steel, solid and reliable
- ◉ High quality seal kit ensures no leakage
- ◉ Applicable of all international flange standards
- ◉ Over stroke safety device
- ◉ Easy operation and maintenance
- ◉ Output accuracy $\pm 2\%$, repeatable accuracy 2%



Model	Bolting Size		Max. Load (KN)	Hyd. Area (mm ²)	Stroke (mm)	Weight (kg)
	Metric (mm)	Imperia (in)				
PWT1	M20	3/4"-10	300	2000	8	3
	M22	7/8"-9				
	M24	1"-8				
	M27					
PWT2	M27	1"-8	525	3500	8	4.8
	M30	1-1/8"-7				
	M33	1-1/4"-7				
	M36	1-3/8"-6				
PWT3	M36	1-3/8"-6	750	5000	8	7.5
	M39	1-1/2"-6				
	M42	1-3/4"-5				
	M45					
PWT4	M42	1-1/2"-6	900	6000	8	11
	M45	1-3/4"-5				
	M48	2"-4-1/2				
	M52					
PWT5	M45	1-3/4"-5	1350	9000	8	17.3
	M48	2"-4-1/2				
	M52	2-1/4"-4-1/2				
	M56					
	M60					
PWT6	M60	2-1/2"-4	1950	13000	8	25
	M64	2-3/4"-4				
	M68					
	M72					
	M76					
PWT7	M72	2-3/4"-4	2400	16000	10	33
	M76	3"-4				
	M80					
PWT8	M80	3-1/4"-4	3000	20000	10	39
	M85	3-1/2"-4				
	M90	3-3/4"-4				
	M95					
	M100					
PWT9	M100	3-3/4"-4	3750	25000	10	56
	M110	4"-4				
	M120	4-1/4"-4				
	M125	4-1/2"-4				
		4-3/4"-4				
PWT10	M125	5"-4	4650	31000	10	77
	M130	5-1/4"-4				
	M140	5-1/2"-4				
	M150	5-3/4"-4				



Model	Metric Type Model	D (mm)	H (mm)	H1 (mm)	H2 (mm)	D1 (mm)	D2 (mm)	A (mm)	C (mm)
PWT1	PWT1-M20 PWT1-M22 PWT1-M24 PWT1-M27	86	105	25	5.2	74	56	26	66
PWT2	PWT2-M27 PWT2-M30 PWT2-M33 PWT2-M36	109	116	35	5.2	97	73	31	83
PWT3	PWT3-M36 PWT3-M39 PWT3-M42 PWT3-M45	128	128	45	10.4	116	90	38	100
PWT4	PWT4-M42 PWT4-M45 PWT4-M48 PWT4-M52	144	140	54	10.4	133	102	40	118
PWT5	PWT5-M45 PWT5-M48 PWT5-M52 PWT5-M56 PWT5-M60	170	154	59	13.9	154	114	42	134
PWT6	PWT6-M60 PWT6-M64 PWT6-M68 PWT6-M72 PWT6-M76	198	185	74	22.5	187	137	50	167
PWT7	PWT7-M72 PWT7-M76 PWT7-M80	220	190	74	22.5	203	145	50	175
PWT8	PWT8-M80 PWT8-M85 PWT8-M90 PWT8-M95 PWT8-M100	244	203	97	22.5	232	180	60	210
PWT9	PWT9-M100 PWT9-M110 PWT9-M120 PWT9-M125	300	235	131	22.5	272	223	73	253
PWT10	PWT10-M125 PWT10-M130 PWT10-M140 PWT10-M150	340	268	156	32.5	313	260	86	293

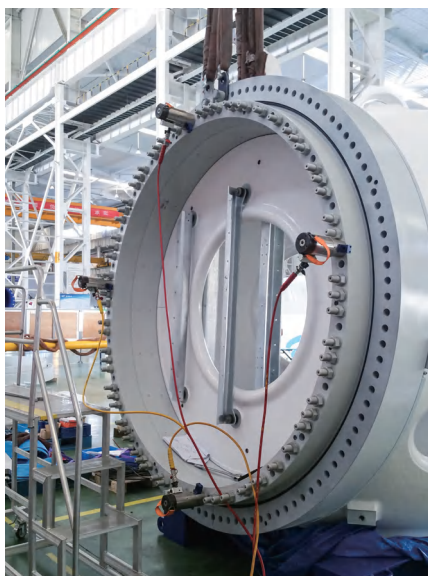
PDT Hydraulic Bolt Tensioner



- ◉ Working pressure 135MPa
- ◉ Fast, simple, accurate, reliable, it is the ideal bolting tools for wind turbine
- ◉ Suitable for tight spaces
- ◉ Small, compact, large load
- ◉ Durable composite material seal kit
- ◉ Clear over stroke alarming mark
- ◉ Optional counter, to display the tensioner operation times
- ◉ The bridge height can be customized according to the customer's site conditions
- ◉ Output accuracy $\pm 2\%$, repeatable accuracy 2%

Specification

Model	Bolt Size		Min.Thread Length (mm)	Max.Thread Length (mm)	Stroke (mm)	Bolt Distance (mm)	Max. Load (KN)	Outside Diameter (mm)	Min. Height (mm)
	Metric (mm)	Imperia (in)							
PDT-M30	M30	1-1/8	62	69	7	66	461	75	276
PDT-M33	M33	1-1/4	66	73	9	72	550	82	295
PDT-M36	M36	1-3/8	75	82	9	77	658	88.5	326
PDT-M39	M39	1-1/2	78	88	10	83	804	98	360
PDT-M42	M42	1-5/8	83	91	10	89	923	101	357
PDT-M45	M45	1-3/4	87	96	10	96	1091	105	371
PDT-M48	M48	1-7/8	93	102	10	102	1220	115	387
PDT-M52	M52	2	100	110	10	107	1655	129	428
PDT-M56	M56	2-1/4	108	119	10	120	1984	138	452



PGT Hydraulic Bolt Tensioner



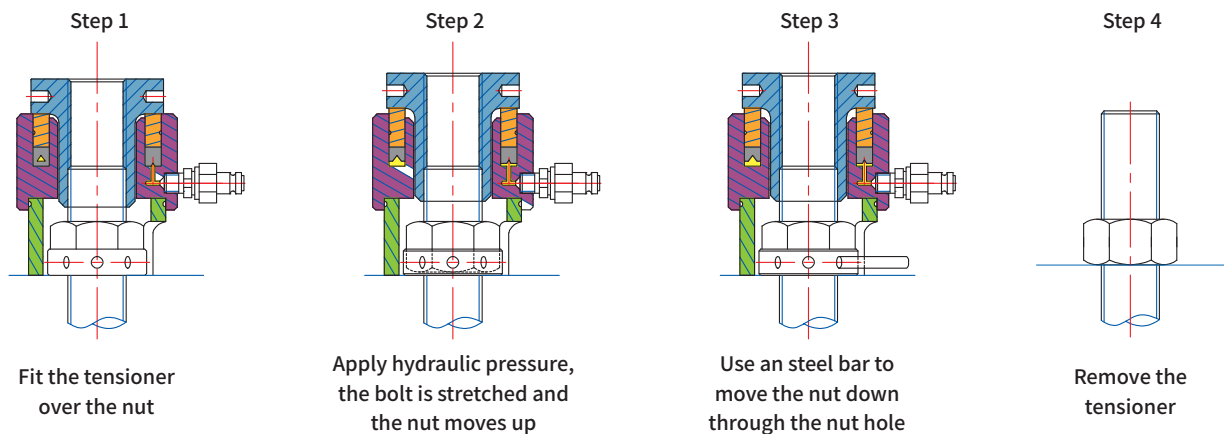
- Compact, large output
- With gearbox for quick locking nut
- Built-in safety protection device
- Durable composite material seal kit
- The bridge height can be customized according to the customer's site conditions
- Output accuracy $\pm 2\%$, repeatable accuracy 2%



Specification

Model	Bolt Size		Min.Thread Length (mm)	Max.Thread Length (mm)	Stroke (mm)	Bolt Distance (mm)	Max.Load (KN)	Outside Diameter (mm)	Min.Height (mm)
	Metric (mm)	Imperial (in)							
PGT-M30	M30	1-1/8	62	69	10	70	460	97	200
PGT-M33	M33	1-1/4	66	73	10	76	570	106	209
PGT-M36	M36	1-3/8	75	82	10	82	670	117	234
PGT-M39	M39	1-1/2	78	88	10	90	800	125	226
PGT-M42	M42	1-5/8	83	91	10	94	920	134	234
PGT-M45	M45	1-3/4	87	96	10	96	1080	148	243
PGT-M48	M48	1-7/8	93	102	10	102	1220	158	273
PGT-M52	M52	2	102	114	10	107	1450	170	277
PGT-M56	M56	2-1/4	108	123	10	115	1680	181	304

Bolt tensioner locking steps



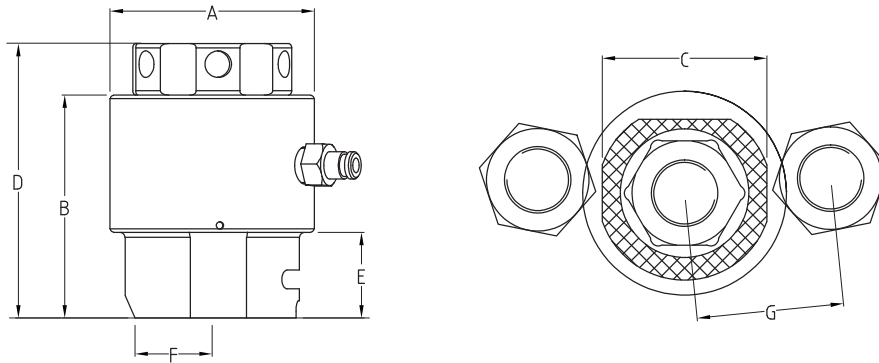
PIT Hydraulic Bolt Tensioner



- Working pressure 150MPa
- Unique seal design allows for piston and cylinder misalignment compensation
- Piston stroke of PIT1 is 8mm, for other model it is 10mm
- Built-in stroke limit valve prevents over stroke
- Fully enclosed bridge to prevent debris from entering the tensioner body
- Spring return, strong and fast, ensure safe return
- Output accuracy $\pm 2\%$, repeatable accuracy 2%

Model	Tensioner Model	Max. Load (KN)	Hyd.Area (mm ²)	Weight(kg)
PIT1	PIT1-M20 PIT1-M22	160	1067	1.4
PIT2	PIT2-M24 PIT2-M27	280	1867	2.7
PIT3	PIT3-M24 PIT3-M27 PIT3-M30 PIT3-M33 PIT3-M36	450	3001	4.1
PIT4	PIT4-M33 PIT4-M36 PIT4-M39 PIT4-M42	660	4401	5.4
PIT5	PIT5-M39 PIT5-M42 PIT5-M45 PIT5-M48	1000	6668	8.4
PIT6	PIT6-M52 PIT6-M56 PIT6-M60 PIT6-M64	1500	10003	13.8
PIT7	PIT7-M68 PIT7-M70 PIT7-M72	2000	13334	18.4
PIT8	PIT8-M76 PIT8-M80 PIT8-M85 PIT8-M90	2500	16671	23
PIT9	PIT9-M90 PIT9-M95 PIT9-M100	3200	21339	32
PIT10	PIT10-M105 PIT10-M110 PIT10-M115	4100	27340	45





Specification

Model	Tensioner Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
PIT1	PIT1-M20	66	93	63	142	36	25	49.8
	PIT1-M22		93	63	144	36	25	51
PIT2	PIT2-M24	87	117	68	175	38	28	56.5
	PIT2-M27		117	68	178	38	28	58.7
PIT3	PIT3-M24	103	117	75	175	38	30	64.5
	PIT3-M27		117	75	178	38	30	66
	PIT3-M30		120	80	184	41	30	67.6
	PIT3-M33		123	84	190	44	35	71.9
	PIT3-M36		126	89	196	47	38	77
PIT4	PIT4-M33	118	123	88	192	44	35	76.5
	PIT4-M36		126	96	198	47	38	80.8
	PIT4-M39		130	96	204	51	42	83.6
	PIT4-M42		133	105	211	54	41	91
PIT5	PIT5-M39	140.5	132	112	212	51	42	91.6
	PIT5-M42		135	114	218	54	45	95.5
	PIT5-M45		139	118	225	57	52	100
	PIT5-M48		142	114	231	60	51	101.3
PIT6	PIT6-M52	175.5	148	120	248	63	52	115
	PIT6-M56		154	138	258	70	58	119.1
	PIT6-M60		161	138	262	70	58	122
	PIT6-M64		161	153	273	76	63	132.3
PIT7	PIT7-M68	197	161	153	283	76	63	135
	PIT7-M70		161	153	287	76	63	135.2
	PIT7-M72		167	157	297	82	72	146.5
PIT8	PIT8-M76	219	174	182	308	89	80	155.5
	PIT8-M80		174	182	312	89	80	158.4
	PIT8-M85		180	190	323	95	84	165
	PIT8-M90		186	205	334	101	88	178.6
PIT9	PIT9-M90	252	186	200	341	101	88	176.1
	PIT9-M95		186	200	346	101	88	178.9
	PIT9-M100		192	200	356	107	94	184.7
PIT10	PIT10-M105	282	199	210	378	114	114	195
	PIT10-M110		199	210	383	114	114	197
	PIT10-M115		205	224	394	120	114	208