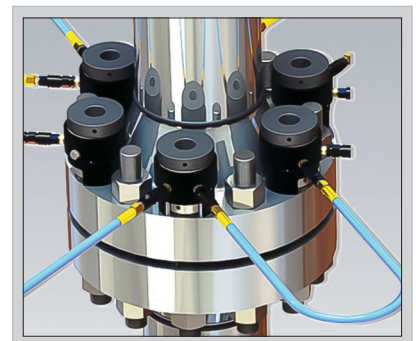
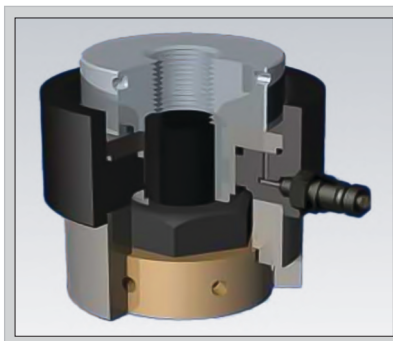


Bolt Tensioning Tools are used extensively across many industries where bolt load accuracy is critical. As bolts increase in size, the load critically increases, and operators are faced with the challenge of ensuring bolt load accuracy. When tightening a bolt by any method, the operator is aiming to achieve the correct bolt elongation. Due to friction, this can be difficult to accurately control when using traditional torque tightening methods.

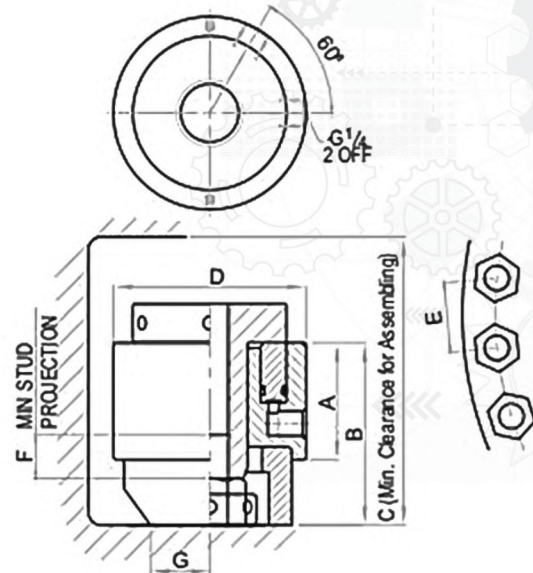
Prime Tools introduce different type of latest technology and advanced hydraulic bolt tensioning Tools that permanently eliminate the risk of loose or over tightened bolts. These Tools are used in variety of application like Pipeline flanges, Heat Exchangers, Pressure vessels, Compressor covers, Boiler feed pumps Wind mills and many other.



- There is no torsional load on the bolt as the nut is not rotated under load.
 - Very easy and fast operation of tightening.
 - High accuracy and repeatability.
 - Useful for critical operations
 - After achieving the desired applied load, the nut can be tightened without causing stresses on it.
- The correct applied bolt load is therefore achieved.
- Even different co-efficients (levels) of friction have no effect on the tensioning process.

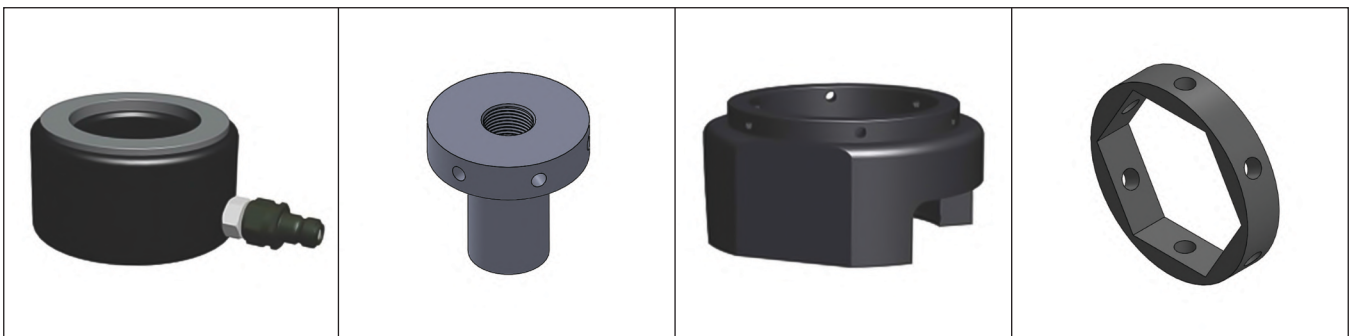


TOP SIDE BOLT TENSIONERS



SAILENT FEATURES :

- ▶ Maximum working pressure 1500 Bar / 21755 PSI.
- ▶ Automation feasible and can be used for critical applications.
- ▶ Versatile Design: PBT Series standard top Tensioners are designed to provide few stud sizes covering from 3/4" to 5.3/4" inch and (M-16 to M-150) in mm. Different stud sizes are accommodated by simply changing the adaptor kit consisting puller, bridge and nut driver keeping same load cell.
- ▶ High Strength Alloy Steel: PBT Tensioners are manufactured from High strength alloy steel as it is operated at max pressure of 1500bar for long lasting trouble-free performance.
- ▶ Multi Tensioning: PBT series Tensioners can be connected and simultaneously operated by using high pressure link hose. This ensures equal elongation of all bolts in single cycle.
- ▶ Floating Piston: PBT has the unique piston design allows 2° tilt without any loss of load, it's prevents piston bore damage.
- ▶ Safety in Piston stroke: PBT series while tensioning even of over stroke the high-pressure fluid will be release from the inner side of load cell saving operator from any protentional exposure.
- ▶ High accuracy and repeatability.
- ▶ Can be used with Air operated / Electric operated pumping units or Hand pumps.



TECHNICAL SPECIFICATION

Metric Series		Imperial Series		Cap (Ton)	Load KN	Stroke (mm)	Effective area (cm ²)	Dimensions						Load Cell Weight (Kgs.)
Model No.	Bolt Size	Model No.	Bolt Size					A	B	C	D	E	G	
PBT-24-16	M16			24	243	10	16.2	62	90	168	75	47	30	1.5
PBT-24-18	M18	PBT-24-075	3/4"	24	243	10	16.2	62	90	168	75	49	30	1.5
PBT-24-20	M20			24	243	10	16.2	62	90	168	75	51	30	1.5
PBT-24-22	M22	PBT-24-087	7/8"	24	243	10	16.2	62	94	168	75	56	31	1.5
PBT-24-24	M24	PBT-24-100	1"	24	243	10	16.2	62	94	168	75	59	31	1.5
PBT-24-27	M27	PBT-24-112	1.1/8"	24	243	10	16.2	62	94	168	75	61	31	1.5
PBT-50-30	M30			50	486	15	32.4	60	106	187	102	72	36	2.5
PBT-50-33	M33	PBT-50-125	1.1/4"	50	486	15	32.4	60	106	187	102	74	36	2.5
PBT-50-36	M36	PBT-50-137	1.3/8"	50	486	15	32.4	60	106	187	102	77	36	2.5
PBT-50-39	M39	PBT-50-150	1.1/2"	50	486	15	32.4	60	106	187	102	80	36	2.5
PBT-90-42	M42	PBT-90-162	1.5/8"	90	896	15	59.7	60	120	208	133	95	48	4.2
PBT-90-45	M45	PBT-90-175	1.3/4"	90	896	15	59.7	60	120	208	133	98	48	4.2
PBT-90-48	M48	PBT-90-187	1.7/8"	90	896	15	59.7	60	120	208	133	100	48	4.2
PBT-90-52	M52	PBT-90-200	2"	90	896	15	59.7	60	120	208	133	104	48	4.2
PBT-125-48	M48	PBT-125-187	1.7/8"	125	1245	15	83	62	135	231	163	105	51	6.4
PBT-125-52	M52	PBT-125-200	2"	125	1245	15	83	62	135	231	163	108	51	6.4
PBT-125-56	M56	PBT-125-275	2.1/4"	125	1245	15	83	62	135	231	163	120	61	6.4
PBT-125-60	M60			125	1245	15	83	62	135	231	163	124	61	6.4
PBT-125-64	M64	PBT-125-250	2.1/2"	125	1245	15	83	62	135	231	163	124	61	6.4
PBT-185-64	M64	PBT-185-250	2.1/2"	185	1845	15	123	62	146	254	193	134	67	9
PBT-185-68	M68			185	1845	15	123	62	146	254	193	136	67	9
PBT-185-72	M72	PBT-185-275	2.3/4"	185	1845	15	123	62	146	259	193	139	67	9
PBT-185-76	M76	PBT-185-300	3"	185	1845	15	123	62	146	263	193	142	67	9
PBT-265-76	M76	PBT-265-300	3"	265	2640	15	176	73	180	304	233	158	78	15.3
PBT-265-80	M80			265	2640	15	176	73	180	308	233	160	78	15.3
PBT-265-85	M85	PBT-265-325	3.1/4"	265	2640	15	176	73	180	313	233	162	78	15.3
PBT-265-90	M90	PBT-265-350	3.1/2"	265	2640	15	176	73	180	318	233	170	78	15.3
PBT-265-95	M95	PBT-265-375	3.3/4"	265	2640	15	176	73	195	343	233	184	95	15.3
PBT-265-100	M100	PBT-265-400	4"	265	2640	15	176	73	195	343	233	190	95	15.3
-	-	PBT-385-375	3.3/4"	385	3753	15	250.3	90	235	420	285	220	120	30.5
PBT-385-100	M100			385	3753	15	250.3	90	235	420	285	222	120	30.5
		PBT-385-400	4"	385	3753	15	250.3	90	235	420	285	222	120	-
		PBT-385-425	4.1/4"	385	3753	15	250.3	90	235	420	285	228	120	-
PBT-385-110	M110			385	3753	15	250.3	90	235	420	285	228	120	30.5
		PBT-385-450	4.1/2"	385	3753	15	250.3	90	235	420	285	236	120	-
PBT-385-120	M120			385	3753	15	250.3	90	235	420	285	236	120	30.5
		PBT-385-475	4.3/4"	385	3753	15	250.3	90	235	420	285	236	120	-
PBT-385-125	M125			385	3753	15	250.3	90	235	420	285	242	120	30.5
PBT-485-125	M125			485	4754	15	317.1	93	280	490	325	262	141	40
		PBT-485-500	5"	485	4754	15	317.1	93	280	490	325	262	141	40
PBT-485-130	M130			485	4754	15	317.1	93	280	490	325	265	141	40
		PBT-485-525	5.1/4"	485	4754	15	317.1	93	280	490	325	275	141	40
		PBT-485-550	5.1/2"	485	4754	15	317.1	93	280	490	325	282	141	40
PBT-485-140	M140			485	4754	15	317.1	93	280	490	325	282	141	40
		PBT-485-575	5.3/4"	485	4754	15	317.1	93	280	490	325	287	141	40
PBT-485-150	M150			485	4754	15	317.1	93	280	490	325	287	141	40