



# HTL Spring Return Tensioners

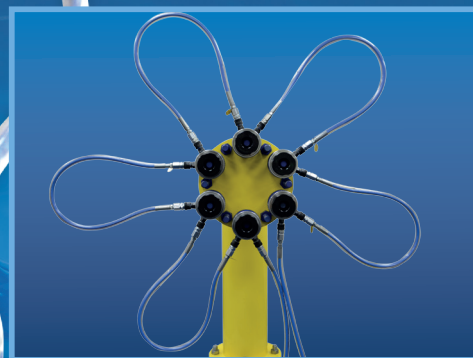
The range of Spring Return Tensioners have been designed to ultimately increase and improve the productivity and safety of the operator. The spring return design enables automatic piston retraction at the end of the tensioning sequence, ensuring the tools are prepared and ready for the next cycle.

In comparison to existing manual return tensioners, our range of Spring Return Tensioners allow greater efficiency and warrants ease of use for the operator due to their improved design including the anti-slip tool surface to enhance grip. The design also incorporates dual ports which allow the operator to daisy chain multiple tensioners together, removing the need and expense of 'T' pieces.

All models within the range have a stroke of 10mm and cover ranges from  $\frac{3}{4}$ " –  $4\frac{1}{2}$ " & M24 - M115 bolts, making them suitable for use on a vast range of flange sizes. They also offer both metric and imperial inserts as well as oversized versions for coated studs.

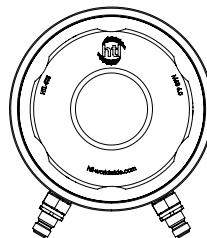
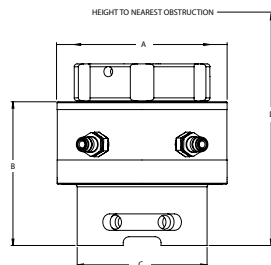
## Features and Benefits

- ✓ Designed to fit BS/ANSI/API flanges
- ✓ Made in the UK
- ✓ Max tool pressure – 21,750psi (1,500 bar working pressure)
- ✓ Automatic spring return piston retraction
- ✓ Maximum stroke indicator
- ✓ Covers bolt ranges from  $\frac{3}{4}$ " –  $4\frac{1}{2}$ " & M24 - M115



# Technical Information

Model	Stud Diameter		Tool Load		Hydraulic Area		A	B	C	D	Weight
	Imperial	Metric	tonf	kN	in <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm	Imperial Bolts	kg
HTL-ST1	1"	M24	28.1	280	2.89	1867	87	117	68	175	2.7
	-	M27						117	68	178	
	1 1/8"	-						120	72	181	
HTL-ST2	1"	M24	45.2	450	4.65	3001	103	117	75	175	4.1
	-	M27						117	75	178	
	1 1/8"	M30						120	80	188	
	1 1/4"	M33						123	84	195	
	1 3/8"	M36						126	89	196	
HTL-ST3	1 1/4"	M33	66.2	660	6.82	4401	118	123	88	192	5.4
	1 3/8"	M36						126	96	198	
	1 1/2"	M39						130	96	204	
	1 5/8"	M42						133	105	211	
HTL-ST4	1 1/2"	M39	101.4	1000	10.34	6668	141	132	112	212	8.4
	1 5/8"	M42						135	114	218	
	1 3/4"	M45						139	118	225	
	1 7/8"	M48						142	114	230	
	2"	-						145	120	236	
HTL-ST5	2"	M52	150.5	1500	15.50	10003	176	148	120	248	13.8
	2 1/4"	M56						154	138	259	
	-	M60						161	138	262	
	2 1/2"	M64						161	153	273	
	-	M68						161	153	283	
	-	M70						161	153	287	
	2 3/4"	-						167	156	284	
HTL-ST6	2 3/4"	M72	250.9	2500	25.84	16671	219	167	157	297	23.0
	3"	M76						174	182	308	
	-	M80						174	182	312	
	3 1/4"	M85						180	190	323	
	3 1/2"	M90						186	205	334	
HTL-ST7	3 1/2"	M90	321.2	3200	33.06	21339	252	186	200	341	32.0
	-	M95						186	200	346	
	3 3/4"	M100						192	200	364	
	4"	-						199	210	364	
HTL-ST8	4"	M105	411.5	4100	42.38	27340	282	199	210	378	42.0
	-	M110						199	210	383	
	4 1/4"	M115						205	224	394	
	4 1/2"	-						212	232	400	



PLEASE NOTE: Figures provided are for guidance only, please refer to individual tool charts. All data is given in good faith and without acceptance of responsibility on the part of HTL.

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