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### HL - TENSIONER SELECTION DATA

Maximum working pressure= 103.4 MPa  
 15000 psi  
 1034 bar

Maximum stroke = HT02 6 mm 0.24 in  
 HT01 8 mm 0.31 in  
 HL01-10 15 mm 0.59 in

Minimum stud protrusion is 2 x bolt diameter above the tool seating face.  
 CLD = Centre Line Distance (see sketch)  
 Note: Data is for guidance only and is subject to change without prior notice.

Tool Model Ref	Stud Size		Tool Load Capacity			Hydraulic Pressure Area		Effective OD		Min CLD		Base Clearance		Min Headroom		Tool Height		Complete Tool Weight	
	Metric	Imperial	kN	tonf	lbf	mm <sup>2</sup>	in <sup>2</sup>	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
HT02 Maroon	M16	-	140.4	14.09	31554	1357	2.10	73.5	2.89	48	1.88	23.5	0.93	121	4.76	93	3.66	2.04	4.50
	M18	3/4"								49	1.94	23.5	0.93	120	4.72	93	3.66	1.97	4.34
	M20	-								51	2.00	26.5	1.04	121	4.76	93	3.66	1.92	4.23
	M22	7/8"								55	2.15	26.5	1.04	126	4.98	96	3.78	1.92	4.23
HT01 Dk. Green	M24	1"	235.6	23.64	52956	2278	3.53	86.0	3.39	59	2.32	29.5	1.16	147	5.78	111	4.37	3.12	6.88
	M27	1.1/8"								66	2.58	32.0	1.26	153	6.03	114	4.49	3.07	6.77
HL01 Dk. Blue	M30	-	360.4	36.17	81022	3485	5.40	107	4.21	72	2.81	36.0	1.42	167	6.57	120	4.72	5.36	11.8
	M33	1.1/4"								73	2.87	36.0	1.42	170	6.69	120	4.72	5.21	11.5
	M36	1.3/8"								76	3.00	39.0	1.54	176	6.93	123	4.84	5.11	11.3
HL02 Orange	M33	1.1/4"	442.3	44.39	99429	4276	6.63	117	4.61	78	3.07	36.0	1.42	172	6.77	122	4.80	6.40	14.1
	M36	1.3/8"								80	3.13	39.0	1.54	178	7.01	125	4.92	6.31	13.9
	M39	1.1/2"								81	3.19	42.0	1.65	187	7.36	131	5.16	6.68	14.7
HL03 Black	M39	1.1/2"	611.2	61.34	137392	5909	9.16	136	5.35	91	3.56	42.0	1.65	191	7.52	135	5.31	9.35	20.6
	M42	1.5/8"								92	3.62	45.0	1.77	196	7.72	137	5.39	9.35	20.6
	M45	1.3/4"								94	3.68	49.0	1.93	202	7.95	140	5.51	9.38	20.7
HL04 Red	M42	1.5/8"	815.1	81.81	183245	7881	12.22	150	5.91	99	3.90	45.0	1.77	198	7.80	139	5.47	11.8	25.9
	M45	1.3/4"								101	3.96	49.0	1.93	204	8.03	142	5.59	11.8	25.9
	M48	1.7/8"								102	4.03	51.0	2.01	210	8.27	145	5.71	12.0	26.4
	M52	2"								105	4.14	54.0	2.13	217	8.54	148	5.83	12.1	26.6
HL05 Grey	M48	1.7/8"	1023	102.7	230028	9894	15.34	169	6.65	112	4.39	51.0	2.01	210	8.27	145	5.71	15.0	32.9
	M52	2"								114	4.47	54.0	2.13	217	8.54	148	5.83	15.1	33.2
	M56	2.1/4"								118	4.66	59.0	2.32	227	8.94	154	6.06	15.6	34.4
HL06 White	M56	2.1/4"	1318	132.3	296277	12743	19.75	190	7.48	123	4.85	59.0	2.32	234	9.21	161	6.34	20.6	45.4
	M60	-								125	4.94	64.5	2.54	245	9.65	168	6.61	21.5	47.4
	M64	2.1/2"								130	5.13	64.5	2.54	249	9.80	168	6.61	21.0	46.2
HL07 Brown	M64	2.1/2"	1649	165.5	370707	15944	24.71	208	8.19	136	5.33	64.5	2.54	256	10.08	175	6.89	26.2	57.7
	M68	-								141	5.54	71.0	2.80	266	10.47	181	7.13	27.1	59.7
	M72	2.3/4"								145	5.72	71.0	2.80	270	10.63	181	7.13	26.4	58.1
HL08 Lt. Green	M72	2.3/4"	1895	190.2	425982	18322	28.40	222	8.74	150	5.91	71.0	2.80	270	10.63	181	7.13	30.0	66.1
	M76	3"								157	6.17	77.0	3.03	281	11.06	188	7.40	32.5	71.7
HL85 Lt. Blue	M76	3"	2252	226.0	506347	21778	33.76	239	9.41	161	6.32	94.0	3.70	288	11.34	195	7.68	37.5	82.6
	M80	-								169	6.67	87.0	3.43	299	11.77	202	7.95	37.1	81.7
	M85	3.1/4"								176	6.94	87.0	3.43	304	11.97	202	7.95	36.2	79.8
	M90	3.1/2"								177	6.96	93.0	3.66	316	12.44	209	8.23	35.6	78.4
HL10 Gold	M95	3.3/4"	2704	271.4	607912	26147	40.53	276	10.87	201	7.93	99.0	3.90	326	12.81	215	8.46	54.4	120
	M100	4"								213	8.38	105.0	4.13	338	13.31	221	8.70	55.7	123

