

▼ HM-Series Topside Tensioners



Max. Force: 134 - 4650 kN

Stroke: 10/15mm

Max. working pressure: 150MPa



Tensioning Pumps, Hoses and Couplers
High pressure pumps, hoses and fittings matched for use with the RIVERLAKE Bolt Tensioners.

- Fifteen load cells available in sizes from ¾" to 4" (M20 to M100)
- Dual ports enable quick connection of multiple tools
- High bolt load capacity, max. 1500 bar (21,750 psi)
- Long stroke of 15 mm (9/16 in.) with over-stroke prevention
- HM01 to HM05: mechanical over-stroke protection, no spring return; HM06 to • HM15: over-stroke protection via relief valve, spring-assisted return
- Quick-release bridge
- Stroke indicator
- Captive socket eliminates the risk of falling objects
- Interchangeable adapter kits available
- Anti-slip grip for safer handling

Ordering Examples

To provide maximum flexibility Load Cells are ordered separately from Adaptor and Bridge Kits.

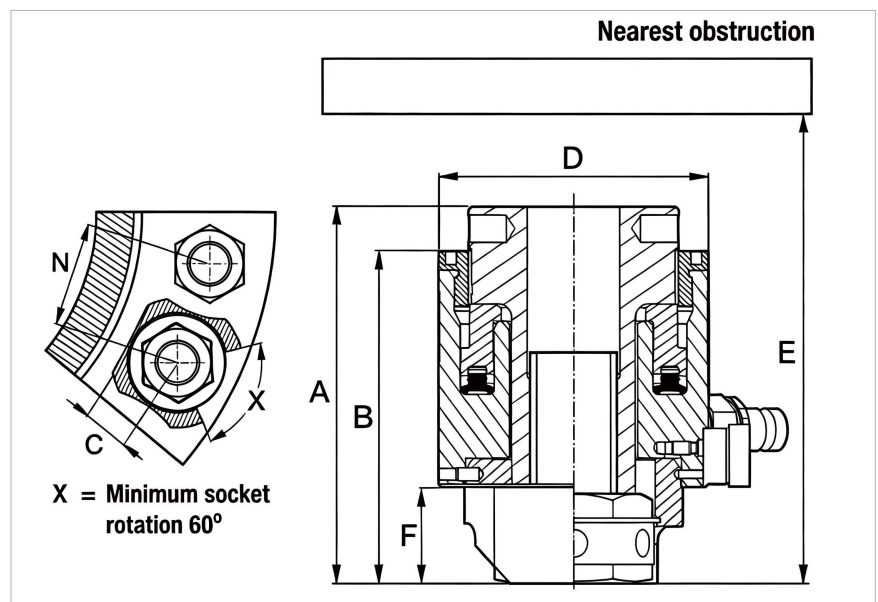
Example, order a complete tensioner
For M20 x 2.5 threaded bolt order:

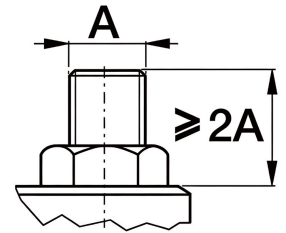
1 x Load Cell with tommy bar:

HM01-LC

1 x Adaptor and Bridge Kit:

HM01BPM-NRS02025



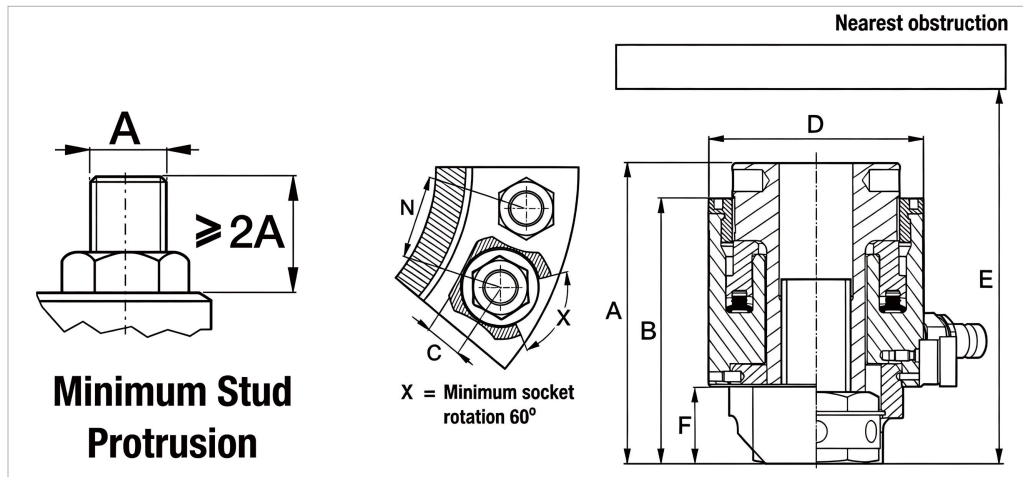


Minimum Stud Protrusion

▼ HM-Series Topside Tensioners Selection Chart

Load Cell Model Number	Thread Size	Adaptor and Bridge Kit Model Number	Cylinder Effective Area (mm ²)	Maximum Load Capacity (kN)	Dimensions(mm)							Load Cell Weight (kg)	Adaptor and Bridge Kit Weight(kg)
					A	B	C	D	E	F	N		
HM01-LC	M20 x 2.5	HM01BPM-NRS02025	894	134	112	96	15	61	208	28	51	1.6	0.6
	¾"- 10 UN	HM01BP-NRS0750U10	894	134	112	96	15	61	208	28	51	1.6	0.6
HM02-LC	M20 x 2.5	HM02BPM-NRS02025	1240	186	119	103	15	69	227	28	53	1.8	0.9
	M22 x 2.5	HM02BPM-NRS02225	1240	186	119	103	18	69	225	28	54	1.8	0.9
	¾"- 10 UN	HM02BP-NRS0750U10	1240	186	119	103	15	69	227	28	52	1.8	0.9
	⅞"- 9 UN	HM02BP-NRS0875U09	1240	186	119	103	18	69	225	28	56	1.8	0.8
HM03-LC	M20 x 2.5	HM03BPM-NRS02025	1628	244.1	120	105	15	77	230	28	57	2.2	1.1
	M22 x 2.5	HM03BPM-NRS02225	1628	244.1	120	105	18	77	228	28	58	2.2	1.1
	M24 x 3	HM03BPM-NRS02430	1628	244.1	120	110	20	77	232	33	59	2.2	1.1
	¾"- 10 UN	HM03BP-NRS0750U10	1628	244.1	120	105	15	77	230	28	56	2.2	1.1
	⅞"- 9 UN	HM03BP-NRS0875U09	1628	244.1	120	105	18	77	228	28	58	2.2	1.1
	1"- 8 UN	HM03BP-NRS1000U08	1628	244.1	125	110	20	77	232	33	60	2.2	1.1
HM04-LC	M22 x 2.5	HM04BPM-NRS02225	2159	323.8	128	112	18	90	250	28	62	2.7	1.6
	M24 x 3	HM04BPM-NRS02430	2159	323.8	129	117	20	90	255	33	63	2.7	1.6
	M27 x 3	HM04BPM-NRS02730	2159	323.8	134	117	20	90	256	34	65	2.7	1.7
	M30 x 3.5	HM04BPM-NRS03035	2159	323.8	137	120	23	90	257	36	66	2.7	1.7
	⅞"- 9 UN	HM04BP-NRS0875U09	2159	323.8	129	112	18	90	250	28	62	2.7	1.6
	1"- 8 UN	HM04BP-NRS1000U08	2159	323.8	134	117	20	90	255	33	64	2.7	1.7
	1⅛"- 8 UN	HM04BP-NRS1125U08	2159	323.8	137	120	23	90	257	36	65	2.7	1.7
HM05-LC	M24 x 3	HM05BPM-NRS02430	2752	412.7	131	119	20	99	263	33	68	3.3	1.9
	M27 x 3	HM05BPM-NRS02730	2752	412.7	136	119	20	99	263	34	69	3.3	2
	M30 x 3.5	HM05BPM-NRS03035	2752	412.7	139	122	23	99	261	36	71	3.3	2
	M33 x 3.5	HM05BPM-NRS03335	2752	412.7	142	125	27	99	262	39	72	3.3	2.1
	1"- 8 UN	HM05BP-NRS1000U08	2752	412.7	136	119	20	99	263	33	68	3.3	2.1
	1⅛"- 8 UN	HM05BP-NRS1125U08	2752	412.7	139	122	23	99	261	36	70	3.3	2.1
	1¼"- 8 UN	HM05BP-NRS1250U08	2752	412.7	142	125	27	99	262	39	71	3.3	2.1
HM06-LC	M30 x 3.5	HM06BPM-NRS03035	4162	624.1	143	125	23	118	266	36	80	4.5	2.8
	M33 x 3.5	HM06BPM-NRS03335	4162	624.1	146	128	27	118	269	39	82	4.5	2.9
	M36 x 4	HM06BPM-NRS03640	4162	624.1	149	131	32	118	273	42	83	4.5	3
	M39 x 4	HM06BPM-NRS03940	4162	624.1	152	134	33	118	277	45	85	4.5	3.1
	1⅞"- 8 UN	HM06BP-NRS1125U08	4162	624.1	143	125	23	118	266	36	79	4.5	2.8
	1¼"- 8 UN	HM06BP-NRS1250U08	4162	624.1	146	128	27	118	269	39	81	4.5	2.9
	1⅝"- 8 UN	HM06BP-NRS1375U08	4162	624.1	149	131	32	118	273	42	82	4.5	3
	1½"- 8 UN	HM06BP-NRS1500U08	4162	624.1	152	134	33	118	277	45	84	4.5	3.1

*Tommy Bar is included with Load Cell



Load Cell Model Number	Thread Size	Adaptor and Bridge Kit Model Number	Cylinder Effective Area (mm ²)	Maximum Load Capacity (kN)	Dimensions(mm)							Load Cell Weight (kg)	Adaptor and Bridge Kit Weight(kg)
					A	B	C	D	E	F	N		
HM07-LC	M33 x 3.5	HM07BPM-NRS03335	4980	746.8	145	128	27	127	278	39	86	5.2	3.4
	M36 x 4	HM07BPM-NRS03640	4980	746.8	148	131	32	127	279	42	88	5.2	3.5
	M39 x 4	HM07BPM-NRS03940	4980	746.8	151	134	33	127	280	45	89	5.2	3.6
	M42 x 4.5	HM07BPM-NRS04245	4980	746.8	154	137	34	127	280	48	91	5.2	3.7
	1¼"- 8 UN	HM07BP-NRS1250U08	4980	746.8	145	128	27	127	278	39	85	5.2	3.4
	1⅝"- 8 UN	HM07BP-NRS1375U08	4980	746.8	148	131	32	127	279	42	87	5.2	3.5
	1½"- 8 UN	HM07BP-NRS1500U08	4980	746.8	151	134	33	127	280	45	89	5.2	3.6
	1⅞"- 8 UN	HM07BP-NRS1625U08	4980	746.8	154	137	34	127	280	48	90	5.2	3.7
HM08-LC	M36 x 4	HM08BPM-NRS03640	5869	880.1	149	133	32	137	283	42	93	6.3	3.9
	M39 x 4	HM08BPM-NRS03940	5869	880.1	152	136	33	137	284	45	94	6.3	4
	M42 x 4.5	HM08BPM-NRS04245	5869	880.1	155	139	34	137	284	48	96	6.3	4.1
	M45 x 4.5	HM08BPM-NRS04545	5869	880.1	158	142	39	137	285	51	97	6.3	4.4
	1⅝"- 8 UN	HM08BP-NRS1375U08	5869	880.1	149	133	32	137	283	42	92	6.3	3.9
	1½"- 8 UN	HM08BP-NRS1500U08	5869	880.1	152	136	33	137	284	45	94	6.3	4
	1⅞"- 8 UN	HM08BP-NRS1625U08	5869	880.1	155	139	34	137	284	48	95	6.3	4.1
	1¾"- 8 UN	HM08BP-NRS1750U08	5869	880.1	158	142	39	137	285	51	97	6.3	4.4
HM09-LC	M39 x 4	HM09BPM-NRS03940	6834	1024.9	152	136	33	145	278	45	98	6.5	5
	M42 x 4.5	HM09BPM-NRS04245	6834	1024.9	155	139	34	145	281	48	100	6.5	6.1
	M45 x 4.5	HM09BPM-NRS04545	6834	1024.9	158	142	39	145	285	51	101	6.5	5.1
	M48 x 5	HM09BPM-NRS04850	6834	1024.9	161	145	43	145	288	54	103	6.5	5.5
	1½"- 8 UN	HM09BP-NRS1500U08	6834	1024.9	152	136	33	145	278	45	98	6.5	5.1
	1⅞"- 8 UN	HM09BP-NRS1625U08	6834	1024.9	155	139	34	145	281	48	99	6.5	5.1
	1¾"- 8 UN	HM09BP-NRS1750U08	6834	1024.9	158	142	39	145	285	51	101	6.5	5
	1⅞"- 8 UN	HM09BP-NRS1875U08	6834	1024.9	161	145	43	145	288	54	102	6.5	5.4
HM10-LC	M42 x 4.5	HM10BPM-NRS04245	7868	1179.8	159	143	34	156	289	48	105	8.3	5.7
	M45 x 4.5	HM10BPM-NRS04545	7868	1179.8	162	146	39	156	293	51	107	8.3	5.7
	M48 x 5	HM10BPM-NRS04850	7868	1179.8	165	149	43	156	296	54	108	8.3	6.1
	M52 x 5	HM10BPM-NRS05250	7868	1179.8	169	153	44	156	301	58	110	8.3	6.3
	1⅞"- 8 UN	HM10BP-NRS1625U08	7868	1179.8	159	143	34	156	289	48	105	8.3	5.7
	1¾"- 8 UN	HM10BP-NRS1750U08	7868	1179.8	162	146	39	156	293	51	106	8.3	5.6
	1⅞"- 8 UN	HM10BP-NRS1875U08	7868	1179.8	165	149	43	156	296	54	108	8.3	6
	2"- 8 UN	HM10BP-NRS2000U08	7868	1179.8	169	153	44	156	301	58	109	8.3	6.3

(Link to the previous table)

Load Cell Model Number	Thread Size	Adaptor and Bridge Kit Model Number	Cylinder Effective Area (mm ²)	Maximum Load Capacity (kN)	Dimensions(mm)							Load Cell Weight (kg)	Adaptor and Bridge Kit Weight(kg)
					A	B	C	D	E	F	N		
HM11-LC	M45 x 4.5	HM11BPM-NRS04545	10152	1522.5	167	146	39	175	297	51	116	10.5	7.4
	M48 x 5	HM11BPM-NRS04850	10152	1522.5	170	149	43	175	301	54	118	10.5	7.9
	M52 x 5	HM11BPM-NRS05250	10152	1522.5	174	153	44	175	306	58	120	10.5	8.1
	M56 x 5.5	HM11BPM-NRS05655	10152	1522.5	182	161	50	175	318	66	122	10.5	9.1
	M60 x 5.5	HM11BPM-NRS06055	10152	1522.5	182	161	50	175	323	66	124	10.5	8.7
	1¼"- 8 UN	HM11BP-NRS1750U08	10152	1522.5	167	146	39	175	297	51	116	10.5	7.5
	1⅞"- 8 UN	HM11BP-NRS1875U08	10152	1522.5	170	149	43	175	301	54	117	10.5	7.9
	2"- 8 UN	HM11BP-NRS2000U08	10152	1522.5	174	153	44	175	306	58	119	10.5	8.1
	2¼"- 8 UN	HM11BP-NRS2250U08	10152	1522.5	182	161	50	175	318	66	122	10.5	8.8
HM12-LC	M48 x 5	HM12BPM-NRS04850	12722	1907.7	170	149	43	194	301	54	127	13.3	9.7
	M52 x 5	HM12BPM-NRS05250	12722	1907.7	174	153	44	194	306	58	129	13.3	9.8
	M56 x 5.5	HM12BPM-NRS05655	12722	1907.7	182	161	50	194	318	66	131	13.3	10.7
	M60 x 5.5	HM12BPM-NRS06055	12722	1907.7	182	161	50	194	323	66	133	13.3	10.4
	M64 x 6	HM12BPM-NRS06460	12722	1907.7	186	165	56	194	320	70	135	13.3	11.1
	1⅞"- 8 UN	HM12BP-NRS1875U08	12722	1907.7	170	149	43	194	301	54	127	13.3	9.6
	2"- 8 UN	HM12BP-NRS2000U08	12722	1907.7	174	153	44	194	306	58	128	13.3	9.8
	2¼"- 8 UN	HM12BP-NRS2250U08	12722	1907.7	182	161	50	194	318	66	132	13.3	10.4
	2½"- 8 UN	HM12BP-NRS2500U08	12722	1907.7	186	165	56	194	320	70	135	13.3	10.8
HM13-LC	M64 x 6	HM13BPM-NRS06460	16964	2544	195	172	56	219	337	70	148	17.6	14.5
	M68 x 6	HM13BPM-NRS06860	16964	2544	195	180	63	219	350	78	150	17.6	16.5
	M72 x 6	HM13BPM-NRS07260	16964	2544	203	185	69	219	347	82	152	17.6	16
	M76 x 6	HM13BPM-NRS07660	16964	2544	207	185	69	219	352	82	154	17.6	16.3
	2½"- 8 UN	HM13BP-NRS2500U08	16964	2544	195	172	56	219	337	70	147	17.6	14.2
	2¾"- 8 UN	HM13BP-NRS2750U08	16964	2544	203	180	63	219	350	78	150	17.6	15.8
	3"- 8 UN	HM13BP-NRS3000U08	16964	2544	207	185	69	219	352	82	161	17.6	15.8
HM14-LC	M72 x 6	HM14BPM-NRS07260	23451	3516.7	203	185	69	259	351	82	172	25.8	20.8
	M76 x 6	HM14BPM-NRS07660	23451	3516.7	207	185	69	259	352	82	174	25.8	21.3
	M80 x 6	HM14BPM-NRS08060	23451	3516.7	207	193	70	259	367	91	176	25.8	21.2
	M85 x 6	HM14BPM-NRS08560	23451	3516.7	216	193	70	259	374	91	178	25.8	22.9
	M90 x 6	HM14BPM-NRS09060	23451	3516.7	221	198	79	259	389	96	181	25.8	23.3
	3"- 8 UN	HM14BP-NRS3000U08	23451	3516.7	207	185	69	259	352	82	174	25.8	20.4
	3¼"- 8 UN	HM14BP-NRS3250U08	23451	3516.7	216	193	70	259	374	91	177	25.8	22.7
	3½"- 8 UN	HM14BP-NRS3500U08	23451	3516.7	221	198	79	259	389	96	184	25.8	23.9
HM15-LC	M90 x 6	HM15BPM-NRS09060	31008	4650	221	199	79	296	389	96	199	32.5	30
	M95 x 6	HM15BPM-NRS09560	31008	4650	226	205	81	296	405	101	202	32.5	33.7
	M100 x 6	HM15BPM-NRS10060	31008	4650	232	211	90	296	421	107	204	32.5	35.1
	3½"- 8 UN	HM15BP-NRS3500U08	31008	4650	221	199	79	296	389	96	198	32.5	29.5
	3¾"- 8 UN	HM15BP-NRS3750U08	31008	4650	226	205	81	296	405	101	202	32.5	32.8
	4"- 8 UN	HM15BP-NRS4000U08	31008	4650	232	211	90	296	421	107	210	32.5	34

*Tommy Bar is included with Load Cell