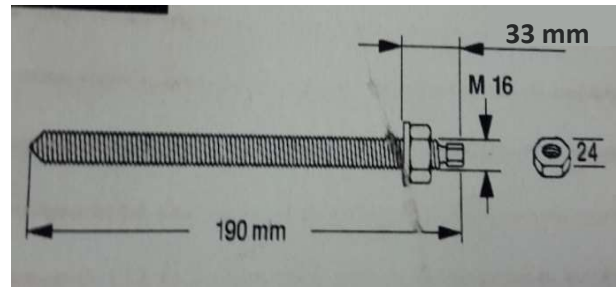


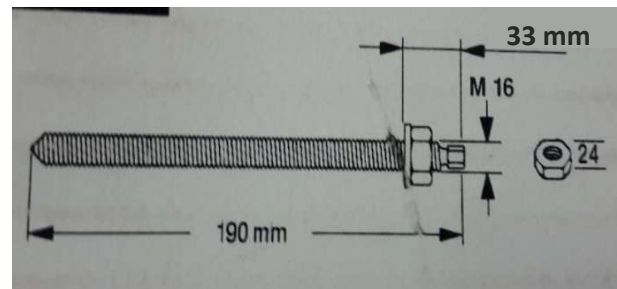
HAS-U

market item number	item	type	size	total length [mm]	length of hex head + safety + nut + washer [mm]	usable thread length [mm]
2223936	HAS-U 5.8 M6x75	HAS-U 5.8	M6	75	10	65
2223704	HAS-U 5.8 M6x105	HAS-U 5.8	M6	105	10	95
2223852	HAS-U 5.8 M8x80	HAS-U 5.8	M8	80	18	62
2223853	HAS-U 5.8 M8x110	HAS-U 5.8	M8	110	18	92
2223854	HAS-U 5.8 M8x150	HAS-U 5.8	M8	150	18	132
2223705	HAS-U 5.8 M10x95	HAS-U 5.8	M10	95	22	73
2223706	HAS-U 5.8 M10x115	HAS-U 5.8	M10	115	22	93
2223707	HAS-U 5.8 M10x130	HAS-U 5.8	M10	130	22	108
2223708	HAS-U 5.8 M10x130 BULK	HAS-U 5.8	M10	130	22	108
2223709	HAS-U 5.8 M10x170	HAS-U 5.8	M10	170	22	148
2223820	HAS-U 5.8 M10x190	HAS-U 5.8	M10	190	22	168
2223821	HAS-U 5.8 M12x110	HAS-U 5.8	M12	110	26	84
2223822	HAS-U 5.8 M12x120	HAS-U 5.8	M12	120	26	94
2223823	HAS-U 5.8 M12x160	HAS-U 5.8	M12	160	26	134
2223824	HAS-U 5.8 M12x160 BULK	HAS-U 5.8	M12	160	26	134
2223825	HAS-U 5.8 M12x180	HAS-U 5.8	M12	180	26	154
2223826	HAS-U 5.8 M12x200	HAS-U 5.8	M12	200	26	174
2223827	HAS-U 5.8 M12x220	HAS-U 5.8	M12	220	26	194
2223867	HAS-U 5.8 M12x260	HAS-U 5.8	M12	260	23	237
2223868	HAS-U 5.8 M12x300	HAS-U 5.8	M12	300	23	277
2223828	HAS-U 5.8 M16x150	HAS-U 5.8	M16	150	33	117
2223829	HAS-U 5.8 M16x165	HAS-U 5.8	M16	165	33	132
2223830	HAS-U 5.8 M16x190	HAS-U 5.8	M16	190	33	157
2223831	HAS-U 5.8 M16x190 BULK	HAS-U 5.8	M16	190	33	157
2223832	HAS-U 5.8 M16x220	HAS-U 5.8	M16	220	33	187
2223869	HAS-U 5.8 M16x260	HAS-U 5.8	M16	260	28	232
2223870	HAS-U 5.8 M16x300	HAS-U 5.8	M16	300	28	272
2223871	HAS-U 5.8 M16x350	HAS-U 5.8	M16	350	28	322
2223872	HAS-U 5.8 M16x500	HAS-U 5.8	M16	500	28	472
2223873	HAS-U 5.8 M20x180	HAS-U 5.8	M20	180	35	145
2223874	HAS-U 5.8 M20x240	HAS-U 5.8	M20	240	35	205
2223875	HAS-U 5.8 M20x240 BULK	HAS-U 5.8	M20	240	35	205
2223876	HAS-U 5.8 M20x260	HAS-U 5.8	M20	260	35	225
2223877	HAS-U 5.8 M20x300	HAS-U 5.8	M20	300	35	265
2223878	HAS-U 5.8 M20x350	HAS-U 5.8	M20	350	35	315



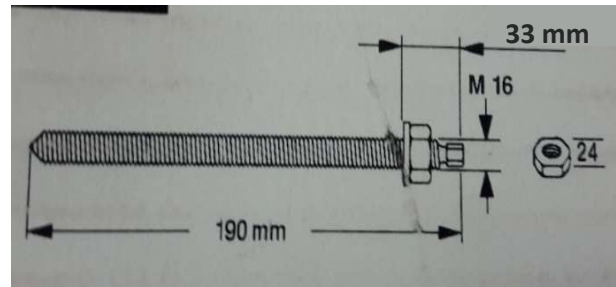
HAS-U

market item number	item	type	size	total length [mm]	length of hex head + safety + nut + washer [mm]	usable thread length [mm]
2223879	HAS-U 5.8 M20x400	HAS-U 5.8	M20	400	35	365
2223880	HAS-U 5.8 M20x480	HAS-U 5.8	M20	480	35	445
2223881	HAS-U 5.8 M24x300	HAS-U 5.8	M24	300	42	258
2223882	HAS-U 5.8 M24x450	HAS-U 5.8	M24	450	42	408
2223856	HAS-U 5.8 HDG M8x80	HAS-U 5.8 HDG	M8	80	18	62
2223857	HAS-U 5.8 HDG M8x110	HAS-U 5.8 HDG	M8	110	18	92
2223858	HAS-U 5.8 HDG M8x150	HAS-U 5.8 HDG	M8	150	18	132
2223859	HAS-U 5.8 HDG M10x95	HAS-U 5.8 HDG	M10	95	22	73
2223860	HAS-U 5.8 HDG M10x115	HAS-U 5.8 HDG	M10	115	22	93
2223861	HAS-U 5.8 HDG M10x130	HAS-U 5.8 HDG	M10	130	22	108
2223862	HAS-U 5.8 HDG M10x170	HAS-U 5.8 HDG	M10	170	22	148
2223863	HAS-U 5.8 HDG M10x190	HAS-U 5.8 HDG	M10	190	22	168
2223937	HAS-U 5.8 HDG M12x110	HAS-U 5.8 HDG	M12	110	26	84
2223938	HAS-U 5.8 HDG M12x120	HAS-U 5.8 HDG	M12	120	26	94
2223939	HAS-U 5.8 HDG M12x160	HAS-U 5.8 HDG	M12	160	26	134
2223940	HAS-U 5.8 HDG M12x180	HAS-U 5.8 HDG	M12	180	26	154
2223941	HAS-U 5.8 HDG M12x200	HAS-U 5.8 HDG	M12	200	26	174
2223942	HAS-U 5.8 HDG M12x220	HAS-U 5.8 HDG	M12	220	26	194
2223895	HAS-U 5.8 HDG M12x260	HAS-U 5.8 HDG	M12	260	23	237
2223896	HAS-U 5.8 HDG M12x300	HAS-U 5.8 HDG	M12	300	23	277
2223943	HAS-U 5.8 HDG M16x150	HAS-U 5.8 HDG	M16	150	34	116
2223944	HAS-U 5.8 HDG M16x165	HAS-U 5.8 HDG	M16	165	34	131
2223945	HAS-U 5.8 HDG M16x190	HAS-U 5.8 HDG	M16	190	34	156
2223946	HAS-U 5.8 HDG M16x220	HAS-U 5.8 HDG	M16	220	34	186
2223897	HAS-U 5.8 HDG M16x260	HAS-U 5.8 HDG	M16	260	28	232
2223898	HAS-U 5.8 HDG M16x300	HAS-U 5.8 HDG	M16	300	28	272
2223899	HAS-U 5.8 HDG M16x350	HAS-U 5.8 HDG	M16	350	28	322
2223900	HAS-U 5.8 HDG M16x500	HAS-U 5.8 HDG	M16	500	28	472
2223901	HAS-U 5.8 HDG M20x180	HAS-U 5.8 HDG	M20	180	35	145
2223902	HAS-U 5.8 HDG M20x240	HAS-U 5.8 HDG	M20	240	35	205
2223903	HAS-U 5.8 HDG M20x260	HAS-U 5.8 HDG	M20	260	35	225
2223904	HAS-U 5.8 HDG M20x300	HAS-U 5.8 HDG	M20	300	35	265
2223905	HAS-U 5.8 HDG M20x350	HAS-U 5.8 HDG	M20	350	35	315
2223906	HAS-U 5.8 HDG M20x400	HAS-U 5.8 HDG	M20	400	35	365
2223907	HAS-U 5.8 HDG M20x480	HAS-U 5.8 HDG	M20	480	35	445



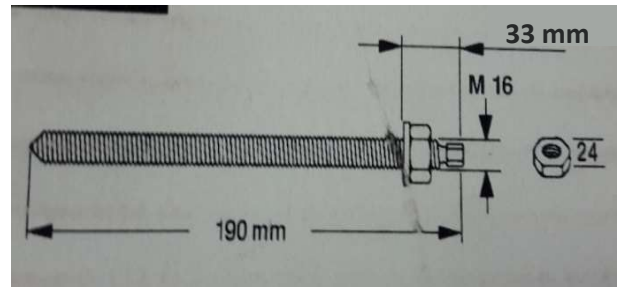
HAS-U

market item number	item	type	size	total length [mm]	length of hex head + safety + nut + washer [mm]	usable thread length [mm]
2223908	HAS-U 5.8 HDG M24x300	HAS-U 5.8 HDG	M24	300	42	258
2223909	HAS-U 5.8 HDG M24x450	HAS-U 5.8 HDG	M24	450	42	408
2237091	HAS-U 8.8 M8x110	HAS-U 8.8	M8	110	18	92
2223855	HAS-U 8.8 M8x150	HAS-U 8.8	M8	150	18	132
2237082	HAS-U 8.8 M10x115	HAS-U 8.8	M10	115	22	93
2237083	HAS-U 8.8 M10x130	HAS-U 8.8	M10	130	22	108
2223833	HAS-U 8.8 M10x190	HAS-U 8.8	M10	190	22	168
2237084	HAS-U 8.8 M12x120	HAS-U 8.8	M12	120	26	94
2237085	HAS-U 8.8 M12x160	HAS-U 8.8	M12	160	26	134
2237086	HAS-U 8.8 M12x180	HAS-U 8.8	M12	180	26	154
2237087	HAS-U 8.8 M12x200	HAS-U 8.8	M12	200	26	174
2223834	HAS-U 8.8 M12x220	HAS-U 8.8	M12	220	26	194
2223883	HAS-U 8.8 M12x300	HAS-U 8.8	M12	300	23	277
2237088	HAS-U 8.8 M16x150	HAS-U 8.8	M16	150	33	117
2223835	HAS-U 8.8 M16x190	HAS-U 8.8	M16	190	33	157
2237089	HAS-U 8.8 M16x220	HAS-U 8.8	M16	220	33	187
2237090	HAS-U 8.8 M16x260	HAS-U 8.8	M16	260	33	227
2223884	HAS-U 8.8 M16x300	HAS-U 8.8	M16	300	28	272
2223885	HAS-U 8.8 M16x380	HAS-U 8.8	M16	380	28	352
2223886	HAS-U 8.8 M20x180	HAS-U 8.8	M20	180	35	145
2223887	HAS-U 8.8 M20x260	HAS-U 8.8	M20	260	35	225
2237092	HAS-U 8.8 M20x300	HAS-U 8.8	M20	300	35	265
2237080	HAS-U 8.8 M20x350	HAS-U 8.8	M20	350	35	315
2223888	HAS-U 8.8 M20x400	HAS-U 8.8	M20	400	35	365
n.a.	HAS-U 8.8 M24x210	HAS-U 8.8	M24	210	42	168
2223889	HAS-U 8.8 M24x300	HAS-U 8.8	M24	300	42	258
2237081	HAS-U 8.8 M24x450	HAS-U 8.8	M24	450	42	408
2223890	HAS-U 8.8 M27x340	HAS-U 8.8	M27	340	49	291
2223891	HAS-U 8.8 M30x380	HAS-U 8.8	M30	380	53	327
2223892	HAS-U 8.8 M33x420	HAS-U 8.8	M33	420	44	376
2223893	HAS-U 8.8 M36x460	HAS-U 8.8	M36	460	48	412
2223894	HAS-U 8.8 M39x510	HAS-U 8.8	M39	510	51	459
2223947	HAS-U 8.8 HDG M8x150	HAS-U 8.8 HDG	M8	150	18	132
2223948	HAS-U 8.8 HDG M10x190	HAS-U 8.8 HDG	M10	190	22	168
2223949	HAS-U 8.8 HDG M12x220	HAS-U 8.8 HDG	M12	220	26	194



HAS-U

market item number	item	type	size	total length [mm]	length of hex head + safety + nut + washer [mm]	usable thread length [mm]
2223910	HAS-U 8.8 HDG M12x300	HAS-U 8.8 HDG	M12	300	23	277
2223703	HAS-U 8.8 HDG M16x190	HAS-U 8.8 HDG	M16	190	33	157
2223911	HAS-U 8.8 HDG M16x300	HAS-U 8.8 HDG	M16	300	28	272
2223912	HAS-U 8.8 HDG M16x380	HAS-U 8.8 HDG	M16	380	28	352
2223913	HAS-U 8.8 HDG M20x180	HAS-U 8.8 HDG	M20	180	35	145
2223914	HAS-U 8.8 HDG M20x260	HAS-U 8.8 HDG	M20	260	35	225
2223915	HAS-U 8.8 HDG M20x400	HAS-U 8.8 HDG	M20	400	35	365
2223916	HAS-U 8.8 HDG M24x300	HAS-U 8.8 HDG	M24	300	42	258
2223917	HAS-U 8.8 HDG M27x340	HAS-U 8.8 HDG	M27	340	49	291
2223918	HAS-U 8.8 HDG M30x380	HAS-U 8.8 HDG	M30	380	53	327
2223864	HAS-U A4 M8x80	HAS-U A4	M8	80	18	62
2223865	HAS-U A4 M8x110	HAS-U A4	M8	110	18	92
2223866	HAS-U A4 M8x150	HAS-U A4	M8	150	18	132
2223836	HAS-U A4 M10x95	HAS-U A4	M10	95	22	73
2223837	HAS-U A4 M10x115	HAS-U A4	M10	115	22	93
2223838	HAS-U A4 M10x130	HAS-U A4	M10	130	22	108
2223839	HAS-U A4 M10x170	HAS-U A4	M10	170	22	148
2223840	HAS-U A4 M10x190	HAS-U A4	M10	190	22	168
2223841	HAS-U A4 M10x220	HAS-U A4	M10	220	22	198
2223842	HAS-U A4 M12x110	HAS-U A4	M12	110	26	84
2223843	HAS-U A4 M12x120	HAS-U A4	M12	120	26	94
2223844	HAS-U A4 M12x160	HAS-U A4	M12	160	26	134
2223845	HAS-U A4 M12x180	HAS-U A4	M12	180	26	154
2223846	HAS-U A4 M12x200	HAS-U A4	M12	200	26	174
2223847	HAS-U A4 M12x220	HAS-U A4	M12	220	26	194
2223919	HAS-U A4 M12x260	HAS-U A4	M12	260	23	237
2223920	HAS-U A4 M12x300	HAS-U A4	M12	300	23	277
2223848	HAS-U A4 M16x150	HAS-U A4	M16	150	33	117
2223849	HAS-U A4 M16x165	HAS-U A4	M16	165	33	132
2223850	HAS-U A4 M16x190	HAS-U A4	M16	190	33	157
2223851	HAS-U A4 M16x220	HAS-U A4	M16	220	33	187
2223921	HAS-U A4 M16x260	HAS-U A4	M16	260	28	232
2223922	HAS-U A4 M16x300	HAS-U A4	M16	300	28	272
2223923	HAS-U A4 M16x350	HAS-U A4	M16	350	28	322
2223924	HAS-U A4 M16x380	HAS-U A4	M16	380	28	352



HAS-U

market item number	item	type	size	total length [mm]	length of hex head + safety + nut + washer [mm]	usable thread length [mm]
2223925	HAS-U A4 M20x180	HAS-U A4	M20	180	35	145
2223926	HAS-U A4 M20x240	HAS-U A4	M20	240	35	205
2223927	HAS-U A4 M20x260	HAS-U A4	M20	260	35	225
2223928	HAS-U A4 M20x300	HAS-U A4	M20	300	35	265
2223929	HAS-U A4 M20x350	HAS-U A4	M20	350	35	315
2223930	HAS-U A4 M20x400	HAS-U A4	M20	400	35	365
2223931	HAS-U A4 M20x480	HAS-U A4	M20	480	35	445
2223932	HAS-U A4 M24x300	HAS-U A4	M24	300	42	258
2223933	HAS-U A4 M24x450	HAS-U A4	M24	450	42	408
2223934	HAS-U A4 M27x340	HAS-U A4	M27	340	49	291
2223935	HAS-U A4 M30x380	HAS-U A4	M30	380	53	327