

Grip Tolerances for WS TCBs (HRD Nut + 1 Thick Washer) and a Standard Shear Wrench

BOLT SIZE	MIN	MAX
M24 X 70	16	34
M24 X 80	26	44
M24 X 90	36	54
M24 X 100	46	64
M24 X 110	56	74
M24 X 120	66	84
M24 X 130	76	94
M24 X 140	86	104
M24 X 150	96	114
M24 X 160	106	124
M24 X 170	116	134
M24 X 180	126	144
M24 X 190	136	154
M24 X 200	146	164
M24 X 220	166	184
M24 X 240	186	204

BOLT SIZE	MIN	MAX
M30 X 80	20	35
M30 X 90	30	45
M30 X 100	40	55
M30 X 110	50	65
M30 X 120	60	75
M30 X 130	70	85
M30 X 140	80	95
M30 X 150	90	105
M30 X 160	100	115
M30 X 170	110	125
M30 X 180	120	135
M30 X 190	130	145
M30 X 200	140	155
M30 X 210	150	165
M30 X 220	160	175
M30 X 240	180	195
M30 X 260	200	215

Notes: The revision of EN 14399-10:2018 has been modified to allow short bolts to be fully threaded. This will apply to bolt lengths shown above the heavy line.

*Minimum and maximum figures provided in mm



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