

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

BOLT SIZE	MIN	MAX
M24 X 70	16	33
M24 X 80	18	43
M24 X 90	33	53
M24 X 100	43	63
M24 X 110	53	73
M24 X 120	62	83
M24 X 130	69	93
M24 X 140	79	103
M24 X 150	89	113
M24 X 160	99	123
M24 X 170	109	133
M24 X 180	119	143
M24 X 190	129	153
M24 X 200	139	163
M24 X 220	159	183
M24 X 240	179	203

BOLT SIZE	MIN	MAX
M30 X 80	19	35
M30 X 90	29	45
M30 X 100	39	55
M30 X 110	49	65
M30 X 120	59	75
M30 X 130	69	85
M30 X 140	79	95
M30 X 150	89	105
M30 X 160	99	115
M30 X 170	109	125
M30 X 180	119	135
M30 X 190	129	145
M30 X 200	139	155
M30 X 210	149	165
M30 X 220	159	175
M30 X 240	179	195
M30 X 260	199	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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Tension Control Bolts Ltd
T: +44 (0) 1978 661122
F: +44 (0) 1978 661177
E: info@tcbolts.com