



Tensile and Shear Force

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Factored Allowable Bolt Forces

Bolt Course Thread	Max Tensile Forces kg			Max Shear Forces kg		
	MS	4.6MPa	8.8MPa	MS	4.6MPa	8.8MPa
5 mm	174 kg	282 kg	651 kg	200 kg	320 kg	751 kg
6 mm	246 kg	400 kg	922 kg	288 kg	461 kg	1081 kg
8 mm	448 kg	728 kg	1679 kg	512 kg	820 kg	1921 kg
10 mm	709 kg	1153 kg	2661 kg	801 kg	1281 kg	3002 kg
12 mm	1031 kg	1676 kg	3867 kg	1153 kg	1845 kg	4323 kg
16 mm	1920 kg	3121 kg	7202 kg	2050 kg	3279 kg	7686 kg
20 mm	2997 kg	4870 kg	11239 kg	3202 kg	5124 kg	12009 kg
24 mm	4318 kg	7017 kg	16193 kg	4612 kg	7378 kg	17293 kg
30 mm	6862 kg	11151 kg	25734 kg	7205 kg	11529 kg	27021 kg
36 mm	9994 kg	16240 kg	37477 kg	10376 kg	16601 kg	38910 kg
42 mm	13700 kg	22263 kg	51376 kg	14123 kg	22596 kg	52960 kg
48 mm	17982 kg	29220 kg	67431 kg	18446 kg	29514 kg	69173 kg

Bolt Fine Thread	Max Tensile Forces kg			Max Shear Forces kg		
	MS	4.6MPa	8.8MPa	MS	4.6MPa	8.8MPa
6 mm	269 kg	437 kg	1009 kg	288 kg	461 kg	1081 kg
8 mm	480 kg	779 kg	1798 kg	512 kg	820 kg	1921 kg
10 mm	749 kg	1217 kg	2807 kg	801 kg	1281 kg	3002 kg
12 mm	1127 kg	1831 kg	4225 kg	1153 kg	1845 kg	4323 kg
16 mm	2043 kg	3320 kg	7661 kg	2050 kg	3279 kg	7686 kg
20 mm	3327 kg	5407 kg	12477 kg	3202 kg	5124 kg	12009 kg
24 mm	4697 kg	7633 kg	17615 kg	4612 kg	7378 kg	17293 kg
30 mm	7596 kg	12344 kg	28486 kg	7205 kg	11529 kg	27021 kg
36 mm	10581 kg	17194 kg	39679 kg	10376 kg	16601 kg	38910 kg