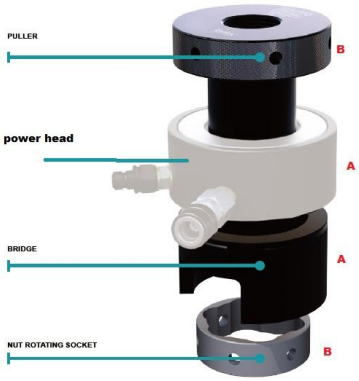
## SPRING RETURN TENSIONER







| | | | |
|---|---|---|---|
| **Brand:** | Torqueing Power Solutions (TPS) | **Max Tool Pressure** | 1500 Bar (21,750psi) |
| **Series:** | TSRT (Spring Return Tensioner) | **Bolt Coverage** | 20 to 115 mm (3/4" to 4.1/2") |

| Model | Bolt | | Tension | | Area of Thrust Surface | | A | | B | | C | | D | | | | Weight | Stroke |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Imperial | | Metric | | | |
| | Imperial | Metric | LBS | KN | $in^2$ | $mm^2$ | in | mm | in | mm | in | mm | in | mm | in | mm | kg | mm |
| TSRT0 | 3/4" | M20 | 35500 | 160 | 1.65 | 1067 | 2.6 | 66 | 3.7 | 93 | 2.5 | 63 | 5.4 | 136 | 5.5 | 142 | 2.5 | 10mm |
| | 7/8" | M22 | | | | | | | | | | | 5.6 | 142 | 5.6 | 144 | | |
| TSRT1 | 1" | M24 | 61950 | 280 | 2.89 | 1867 | 3.4 | 87 | 4.6 | 117 | 2.7 | 68 | 6.9 | 175 | 6.9 | 175 | 3.7 | 10mm |
| | - | M27 | | | | | | | 4.6 | 117 | 2.7 | 68 | - | - | 7 | 178 | | |
| | 1-1/8" | - | | | | | | | 4.7 | 120 | 2.8 | 72 | 7.1 | 181 | - | - | | |
| TSRT2 | 1" | M24 | 99700 | 450 | 4.65 | 3001 | 4.1 | 103 | 4.6 | 117 | 3 | 75 | 6.9 | 175 | 6.9 | 175 | 5.5 | 10mm |
| | - | M27 | | | | | | | 4.6 | 117 | 3 | 75 | - | 181 | 7 | 178 | | |
| | 1-1/8" | M30 | | | | | | | 4.7 | 120 | 3.2 | 80 | 7.1 | 188 | 7.2 | 184 | | |
| | 1-1/4" | M33 | | | | | | | 4.8 | 123 | 3.3 | 84 | 7.4 | 195 | 7.5 | 190 | | |
| | 1-3/8" | M36 | | | | | | | 5 | 126 | 3.5 | 89 | 7.7 | - | 7.7 | 196 | | |
| TSRT3 | 1-1/4" | M33 | 145950 | 660 | 6.82 | 4401 | 4.7 | 118 | 4.8 | 123 | 3.5 | 88 | 7.5 | 190 | 7.6 | 192 | 7.5 | 10mm |
| | 1-3/8" | M36 | | | | | | | 5 | 126 | 3.8 | 96 | 7.8 | 197 | 7.8 | 198 | | |
| | 1-1/2" | M39 | | | | | | | 5.1 | 130 | 3.8 | 96 | 8 | 203 | 8 | 204 | | |
| | 1-5/8" | M42 | | | | | | | 5.2 | 133 | 4.1 | 105 | 8.2 | 209 | 8.3 | 211 | | |
| TSRT4 | 1-1/2" | M39 | 223550 | 1000 | 10.34 | 6668 | 5.5 | 140.5 | 5.2 | 132 | 4.4 | 112 | 8.3 | 211 | 8.4 | 212 | 11.5 | 10mm |
| | 1-5/8" | M42 | | | | | | | 5.3 | 135 | 4.5 | 114 | 8.5 | 217 | 8.6 | 218 | | |
| | 1-3/4" | M45 | | | | | | | 5.5 | 139 | 4.7 | 118 | 8.8 | 223 | 8.9 | 225 | | |
| | 1-7/8" | M48 | | | | | | | 5.6 | 142 | 4.5 | 114 | 9.1 | 230 | 9.1 | 231 | | |
| | 2" | M52 | | | | | | | 5.7 | 145 | 4.7 | 120 | 9.3 | 236 | - | - | | |
| TSRT5 | 2" | M52 | 331400 | 1500 | 15.5 | 10003 | 6.9 | 175.5 | 5.8 | 148 | 4.7 | 120 | 9.7 | 246 | 9.8 | 248 | 18.5 | 10mm |
| | 2-1/4" | M56 | | | | | | | 6.1 | 154 | 5.4 | 138 | 10.2 | 259 | 10.2 | 258 | | |
| | - | M60 | | | | | | | 6.3 | 161 | 5.4 | 138 | 10.2 | 259 | 10.3 | 262 | | |
| | 2-1/2" | M64 | | | | | | | 6.3 | 161 | 6 | 153 | 10.7 | 272 | 10.8 | 273 | | |
| | 2-3/4" | M68 | | | | | | | 6.6 | 167 | 6.1 | 156 | 11.2 | 284 | 11.1 | 283 | | |
| TSRT6 | 2-3/4" | M72 | 553200 | 2500 | 25.84 | 16671 | 9.2 | 235 | 6.6 | 167 | 6.2 | 157 | 11.6 | 294 | 11.7 | 297 | 33 | 10mm |
| | 3" | M76 | | | | | | | 6.9 | 171 | 7.2 | 182 | 12.1 | 307 | 12.1 | 308 | | |
| | - | M80 | | | | | | | 7.1 | 180 | 7.5 | 190 | - | - | 12.3 | 312 | | |
| | 3-1/4" | M85 | | | | | | | 7.1 | 180 | 7.5 | 190 | 12.6 | 320 | 12.7 | 323 | | |
| | 3-1/2" | M90 | | | | | | | 7.3 | 186 | 8.1 | 205 | 13.1 | 332 | 13.2 | 334 | | |
| TSRT7 | 3-1/2" | M90 | 708200 | 3200 | 33.06 | 21339 | 9.9 | 252 | 7.3 | 186 | 7.9 | 200 | 13.2 | 339 | 13.3 | 341 | 47 | 10mm |
| | - | M95 | | | | | | | 7.3 | 186 | 7.9 | 200 | - | - | 13.5 | 346 | | |
| | 3-3/4" | M100 | | | | | | | 7.6 | 192 | 7.9 | 200 | 13.7 | 352 | 13.9 | 356 | | |
| | 4" | - | | | | | | | 7.8 | 199 | 8.3 | 210 | 14.2 | 363 | - | - | | |
| TSRT8 | 4" | M105 | 929513 | 4200 | 42.35 | 27336 | 11.1 | 283 | 7.8 | 199 | 10 | 255 | 10.4 | 264 | - | - | 63 | 10mm |
| | - | M110 | | | | | | | 7.8 | 199 | 10 | 255 | 10.4 | 264 | - | - | | |
| | 4-1/4" | M115 | | | | | | | 8.1 | 205 | 10.2 | 260 | 10.6 | 270 | - | - | | |
| | 4-1/2" | - | | | | | | | 8.3 | 212 | 10.6 | 270 | 10.9 | 277 | - | - | | |