

RX performance specs

| part number | | | | | | | | | | | | | |
|---------------------|-------------------------------------|----------------|---|---|---|---|---|---|-----------------------------|-----------------------------------|--------------------|--|--------------------|
| type (OC, OI, etc.) | outer diameter, in 16ths of an inch | placeholder, D | bore one size, in 16ths of an inch (E) or in mm (M) | E = English, M = metric bore thru, K = keyway | bore one type (b = blind, T = thru, K = keyway) | bore two size, in 16ths of an inch (E) or in mm (M) | E = English, M = metric bore thru, K = keyway | bore two type (b = blind, T = thru, K = keyway) | S = set screw, C = clamping | hub material (see chart at right) | placeholder, "HUB" | midsection material (see chart at right) | placeholder, "MID" |
| RX 4 | D | | | | | | | | | A | HUB | N | MID |
| RX 6 | D | | | | | | | | | A | HUB | N | MID |
| RX 8 | D | | | | | | | | | A | HUB | N | MID |
| RX 10 | D | | | | | | | | | A | HUB | N | MID |
| RX 12 | D | | | | | | | | | A | HUB | N | MID |
| RX 16 | D | | | | | | | | | A | HUB | N | MID |
| RX 21 | D | | | | | | | | | A | HUB | N | MID |
| RX 26 | D | | | | | | | | | A | HUB | N | MID |
| RX 32 | D | | | | | | | | | A | HUB | N | MID |
| RX 36 | D | | | | | | | | | A | HUB | N | MID |
| RX 4 | D | | | | | | | | | S | HUB | N | MID |
| RX 6 | D | | | | | | | | | S | HUB | N | MID |
| RX 8 | D | | | | | | | | | S | HUB | N | MID |
| RX 10 | D | | | | | | | | | S | HUB | N | MID |
| RX 12 | D | | | | | | | | | S | HUB | N | MID |
| RX 16 | D | | | | | | | | | S | HUB | N | MID |
| RX 21 | D | | | | | | | | | S | HUB | N | MID |
| RX 26 | D | | | | | | | | | S | HUB | N | MID |
| RX 32 | D | | | | | | | | | S | HUB | N | MID |
| RX 36 | D | | | | | | | | | S | HUB | N | MID |
| RX 4 | D | | | | | | | | | P | HUB | N | MID |
| RX 6 | D | | | | | | | | | P | HUB | N | MID |
| RX 8 | D | | | | | | | | | P | HUB | N | MID |
| RX 10 | D | | | | | | | | | P | HUB | N | MID |
| RX 12 | D | | | | | | | | | P | HUB | N | MID |
| RX 16 | D | | | | | | | | | P | HUB | N | MID |
| RX 21 | D | | | | | | | | | P | HUB | N | MID |
| RX 26 | D | | | | | | | | | P | HUB | N | MID |
| RX 32 | D | | | | | | | | | P | HUB | N | MID |
| RX 36 | D | | | | | | | | | P | HUB | N | MID |

| HUB materials | |
|---------------|-----------------|
| code | material |
| A | aluminum |
| B | brass |
| F | alloy steel |
| P | Ulitem |
| S | stainless steel |

Physical specifications of RX vary with outer diameter and hub material.

This data assumes perfect shaft engagement and zero shaft slippage under torque. In practice, this would be most closely approximated with K type bore (keyway) and with C type shaft locking (clamping), and with a shaft-locking compound. In practice, set screw locking with plain bore and no locking compound would experience shaft slippage at torques lower than these rated torques.

| peak torque | static break torque | | torsional stiffness | | moment of inertia, (10 ⁸)kgm ² | mass, grams | maximum misalignment | | | | max speed, rpm | maximum ambient temperature | | | |
|-------------|---------------------|-------|---------------------|---------|---|-------------|----------------------|-----------|---------------|-----|----------------|-----------------------------|--------------|-----|-------|
| | Nm | in-lb | Nm | in-lb | | | Nm/rad | in-lb/rad | radial inches | mm | | angular degrees | axial inches | mm | deg F |
| 2 | 17.7 | 2.2 | 19.5 | 1800 | 15931 | 0.37 | 0.59 | 0 | 0.00 | 0 | 0 | 0.00 | 10000 | 450 | 232 |
| 3.5 | 31.0 | 3.9 | 34.1 | 4200 | 37173 | 2.7 | 1.97 | 0 | 0.00 | 0 | 0 | 0.00 | 10000 | 450 | 232 |
| 4.64 | 41.1 | 5.1 | 45.2 | 11000 | 97358 | 12.9 | 5.8 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 5.77 | 51.1 | 6.3 | 56.2 | 22000 | 194716 | 39.9 | 10.6 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 11.9 | 105 | 13.1 | 116 | 38000 | 336328 | 82.9 | 16.2 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 15.8 | 140 | 17.4 | 154 | 95000 | 840821 | 383 | 38.6 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 32.8 | 290 | 36.1 | 319 | 220000 | 1947164 | 1588 | 98.1 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 40.0 | 354 | 44.0 | 389 | 360000 | 3186268 | 4823 | 206 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 49.9 | 442 | 54.9 | 486 | 680000 | 6018507 | 13243 | 387 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 95.9 | 849 | 106 | 934 | 900000 | 7965671 | 29455 | 685 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 450 | 232 |
| 2.1 | 18.6 | 2.3 | 20.4 | 2000 | 17701 | 1.03 | 1.65 | 0 | 0.00 | 0 | 0 | 0.00 | 10000 | 500 | 260 |
| 3.7 | 32.7 | 4.1 | 36.0 | 4600 | 40713 | 7.6 | 5.5 | 0 | 0.00 | 0 | 0 | 0.00 | 10000 | 500 | 260 |
| 4.9 | 43.6 | 5.4 | 48.0 | 11700 | 1.0E+05 | 35.8 | 16.2 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 6.1 | 54.2 | 6.7 | 59.7 | 23800 | 2.1E+05 | 111 | 29.5 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 12.6 | 112 | 13.9 | 123 | 41000 | 3.6E+05 | 231 | 45.1 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 16.8 | 149 | 18.5 | 164 | 1.0E+05 | 9.2E+05 | 1066 | 108 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 34.8 | 308 | 38.3 | 339 | 2.4E+05 | 2.1E+06 | 4425 | 273 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 42.5 | 376 | 46.7 | 414 | 4.1E+05 | 3.6E+06 | 13436 | 573 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 53.0 | 469 | 58.3 | 516 | 7.5E+05 | 6.6E+06 | 36892 | 1077 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 102 | 902 | 112 | 992 | 1.0E+06 | 8.9E+06 | 82053 | 1908 | 0 | 0.00 | 0 | 0 | 0.00 | 8000 | 500 | 260 |
| 0.4 | 3.5 | 0.4 | 3.9 | 26 | 230 | 0.18 | 0.29 | 0.0005 | 0.01 | 0.1 | 0 | 0.00 | 10000 | 340 | 171 |
| 0.7 | 6.2 | 0.8 | 6.8 | 80 | 708 | 1.36 | 0.98 | 0.0005 | 0.01 | 0.1 | 0 | 0.00 | 10000 | 340 | 171 |
| 0.9 | 8.0 | 1.0 | 8.8 | 140 | 1239 | 6.4 | 2.89 | 0.0005 | 0.01 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 1.2 | 10.6 | 1.3 | 11.7 | 200 | 1770 | 19.8 | 5.3 | 0.0005 | 0.01 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 2.4 | 21.2 | 2.6 | 23.4 | 270 | 2390 | 41.2 | 8.0 | 0.001 | 0.03 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 3.2 | 28.3 | 3.5 | 31.2 | 480 | 4248 | 190 | 19.2 | 0.001 | 0.03 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 6.6 | 58.4 | 7.3 | 64.3 | 1400 | 12391 | 789 | 48.7 | 0.001 | 0.03 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 8 | 70.8 | 8.8 | 77.9 | 2700 | 23897 | 2394 | 102 | 0.001 | 0.03 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 10 | 88.5 | 11.0 | 97.4 | 3100 | 27437 | 6574 | 192 | 0.001 | 0.03 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |
| 19.2 | 170 | 21.1 | 187 | 5000 | 44254 | 14623 | 340 | 0.001 | 0.03 | 0.1 | 0 | 0.00 | 8000 | 340 | 171 |

RX physical dimensions

| part number | | | | | | | | | | | | | | |
|---------------------|-------------------------------------|----------------|---|---|---|---|---|---|-----------------------------|-----------------------------------|--------------------|--|--------------------|-----|
| type (OC, OI, etc.) | outer diameter, in 16ths of an inch | placeholder, D | bore one size, in 16ths of an inch (E) or in mm (M) | E = English, M = metric bore thru, K = keyway | bore one type (b = blind, T = thru, K = keyway) | bore two size, in 16ths of an inch (E) or in mm (M) | E = English, M = metric bore thru, K = keyway | bore two type (b = blind, T = thru, K = keyway) | S = set screw, C = clamping | hub material (see chart at right) | placeholder, "HUB" | midsection material (see chart at right) | placeholder, "MID" | |
| RX 4 | D | | | | | | | | | A | HUB | N | MID | |
| RX 6 | D | | | | | | | | | S | HUB | N | MID | |
| RX 8 | D | | | | | | | | | A | HUB | N | MID | |
| RX 10 | D | | | | | | | | | A | HUB | N | MID | |
| RX 12 | D | | | | | | | | | C | B | HUB | N | MID |
| RX 16 | D | | | | | | | | | A | HUB | N | MID | |
| RX 21 | D | | | | | | | | | G | HUB | N | MID | |
| RX 26 | D | | | | | | | | | C | A | HUB | N | MID |
| RX 32 | D | | | | | | | | | C | A | HUB | N | MID |
| RX 36 | D | | | | | | | | | A | HUB | N | MID | |

| physical dimensions, inches | | | | | |
|-----------------------------|-------|--------|--------|----------------------|--------------|
| A | B | C | D | min bore for this OD | max bore for |
| 0.375 | 0.25 | 0.1875 | 0.1875 | 0.079 | 0.125 |
| 0.563 | 0.375 | 0.2815 | 0.2815 | 0.118 | 0.197 |
| 0.75 | 0.5 | 0.375 | 0.375 | 0.118 | 0.25 |
| 1 | 0.625 | 0.5 | 0.5 | 0.125 | 0.315 |
| 1 | 0.75 | 0.5 | 0.5 | 0.157 | 0.313 |
| 1.5 | 1 | 0.75 | 0.75 | 0.236 | 0.472 |
| 2 | 1.313 | 1 | 1 | 0.25 | 0.63 |
| 2.5 | 1.625 | 1.25 | 1.25 | 0.25 | 0.787 |
| 3 | 2 | 1.5 | 1.5 | 0.25 | 1 |
| 4 | 2.25 | 2 | 2 | 0.25 | 1.181 |

