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# UltraTRUE™

## Helical True Planetary Gearheads

| Ready for Immediate Delivery | |
|---|---|
| **Precision** | 4 arc-minutes |
| **Frame Sizes** | 60 mm, 75 mm, 90 mm, 100 mm, 115 mm, 140 mm, 180 mm and 220 mm |
| **Torque Capacity** | up to 3300 Nm |
| **Ratio Availability** | 4:1 thru 100:1 |
| **Radial load capacity** | up to 37910 N |
| **Mounting System** | RediMount™ |

1. **Tapered roller bearings**
provide high axial and radial load carrying capacity

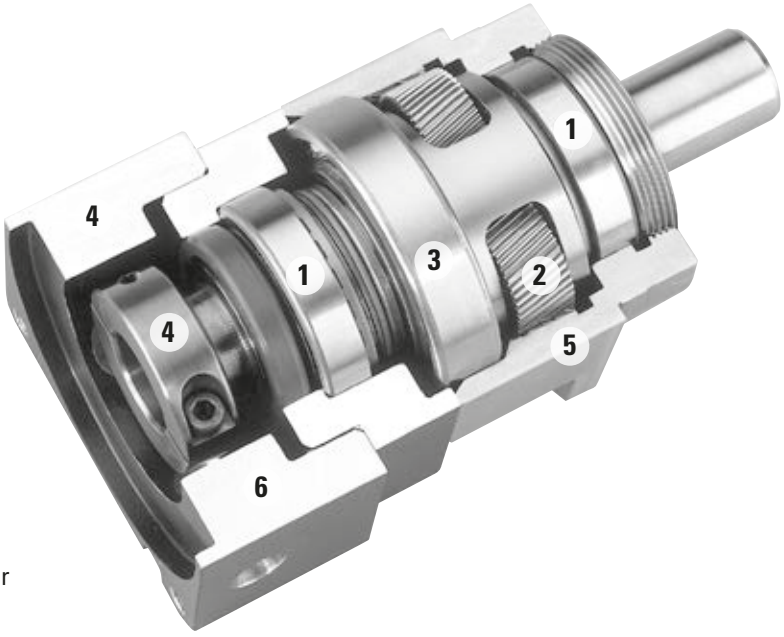
2. **Helical crowned**
HRC 55-60 steel gears
provide higher torque capacity and smoother operation

3. **Sealed deep groove ball bearing**
provides high radial load carrying capability

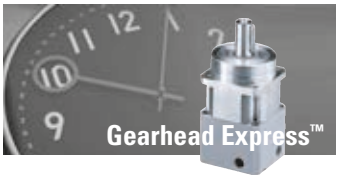
4. **RediMount system**
provides error-free motor installation

5. **Single-piece output**
integrated output housing and internal gear

6. **Anodized aluminum housing**
reduces weight and prevents corrosion




***Micron True™ Planetary Gearheads shipped within 24 hours!***

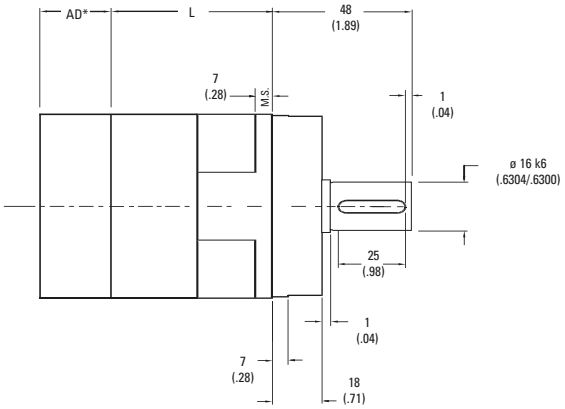


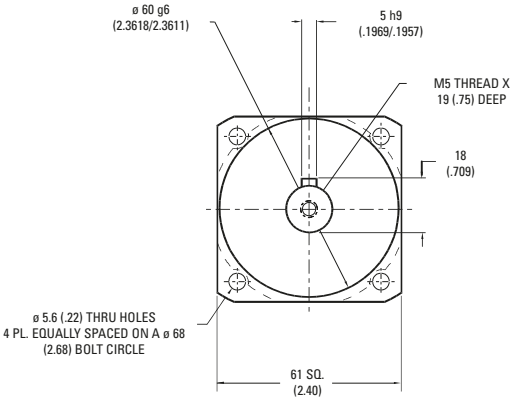

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# UltraTRUE™ Size 60

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 57 [2.25] | 4 max | 2 [4.4] | 95% |
| 16:1 to 100:1 | 105,4 [4.15] | 5 max | 2.5 [5.5] | 90% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak | 20,000 Hour Life | | | J | Torsional Stiffness |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | Nm [in.-lb.] | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | kg-cm$^2$ [in.-lb.-sec$^2$x10$^{-4}$] | Nm/arc-min [in.-lb./arc-min] |
| UT006-004 | 4:1 | 48 [426] | 44 [387] | 38 [340] | 101 [891] | 47 [417] | 36 [322] | 31 [276] | .20 [1.80] | 2.62 [23.2] |
| UT006-005 | 5:1 | 47 [413] | 43 [377] | 40 [355] | 98 [865] | 46 [404] | 38 [336] | 33 [288] | .13 [1.16] | 2.56 [22.7] |
| UT006-007 | 7:1 | 45 [394] | 41 [362] | 39 [345] | 93 [825] | 44 [385] | 40 [354] | 35 [307] | .11 [.96] | 2.42 [21.5] |
| UT006-010 | 10:1 | 26 [232] | 23 [200] | 21 [186] | 88 [781] | 24 [215] | 21 [185] | 19 [173] | .10 [.85] | 1.93 [17.1] |
| UT006-016 | 16:1 | 53 [467] | 49 [435] | 47 [419] | 110 [975] | 52 [456] | 48 [426] | 46 [410] | .16 [1.44] | 2.67 [23.7] |
| UT006-020 | 20:1 | 53 [472] | 50 [442] | 48 [426] | 111 [985] | 52 [462] | 49 [432] | 47 [417] | .16 [1.44] | 2.62 [23.2] |
| UT006-025 | 25:1 | 51 [456] | 48 [428] | 47 [413] | 107 [948] | 50 [446] | 47 [418] | 46 [404] | .16 [1.44] | 2.58 [22.8] |
| UT006-028 | 28:1 | 54 [481] | 51 [452] | 49 [437] | 113 [999] | 53 [470] | 50 [442] | 48 [427] | .16 [1.44] | 2.46 [21.8] |
| UT006-035 | 35:1 | 52 [463] | 49 [437] | 48 [423] | 108 [960] | 51 [453] | 48 [427] | 47 [414] | .10 [.85] | 2.54 [22.5] |
| UT006-040 | 40:1 | 55 [489] | 52 [462] | 51 [447] | 114 [1011] | 54 [478] | 51 [451] | 49 [438] | .10 [.85] | 2.67 [23.7] |
| UT006-050 | 50:1 | 53 [471] | 50 [446] | 49 [433] | 110 [971] | 52 [461] | 49 [436] | 48 [423] | .10 [.85] | 2.62 [23.2] |
| UT006-070 | 70:1 | 50 [445] | 48 [423] | 46 [411] | 103 [913] | 49 [435] | 47 [414] | 45 [402] | .10 [.85] | 2.46 [21.8] |
| UT006-100 | 100:1 | 35 [307] | 30 [269] | 29 [253] | 96 [851] | 32 [284] | 28 [249] | 26 [234] | .10 [.85] | 2.03 [17.9] |

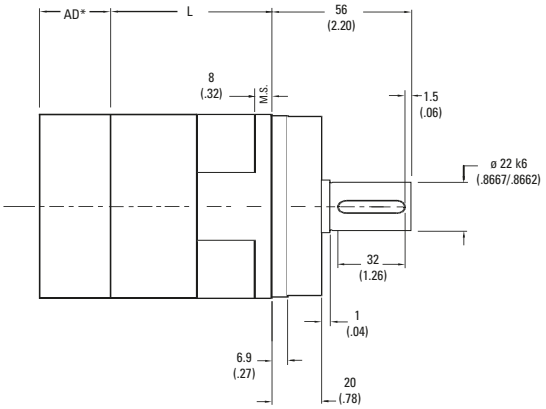
**All ratios are available to ship in 24 hours through the Gearhead Express Program.**

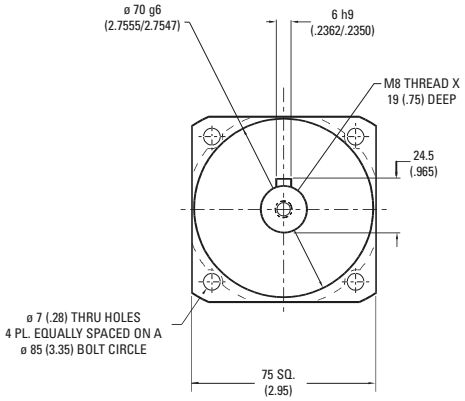
[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# UltraTRUE™ Size 75

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 60 [2.35] | 4 max | 2.5 [5.5] | 95% |
| 16:1 to 100:1 | 117 [4.60] | 5 max | 3.0 [6.6] | 90% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT075-004 | 4:1 | 86 [762] | 78 [689] | 73 [649] | 179 [1581] | 84 [746] | 74 [652] | 63 [559] | ,46 [ 4.1] | 7,00 [61.9] |
| UT075-005 | 5:1 | 84 [740] | 76 [672] | 72 [636] | 174 [1537] | 82 [723] | 74 [657] | 66 [583] | ,38 [ 3.4] | 6,86 [60.7] |
| UT075-007 | 7:1 | 80 [706] | 73 [646] | 69 [615] | 166 [1469] | 78 [690] | 71 [632] | 68 [601] | ,31 [ 2.8] | 6,07 [53.7] |
| UT075-010 | 10:1 | 47 [418] | 41 [360] | 38 [335] | 157 [1393] | 44 [387] | 38 [333] | 35 [310] | ,27 [ 2.4] | 4,46 [39.5] |
| UT075-016 | 16:1 | 95 [838] | 88 [780] | 85 [749] | 197 [1743] | 93 [820] | 86 [762] | 83 [732] | ,31 [ 2.8] | 7,36 [65.1] |
| UT075-020 | 20:1 | 96 [849] | 90 [792] | 86 [762] | 199 [1762] | 94 [830] | 88 [775] | 84 [746] | ,31 [ 2.8] | 7,20 [63.7] |
| UT075-025 | 25:1 | 93 [820] | 87 [767] | 84 [740] | 192 [1698] | 91 [801] | 85 [750] | 82 [723] | ,31 [ 2.8] | 7,07 [62.6] |
| UT075-028 | 28:1 | 98 [864] | 92 [811] | 88 [782] | 202 [1789] | 96 [845] | 90 [793] | 86 [765] | ,28 [ 2.5] | 6,45 [57.1] |
| UT075-035 | 35:1 | 94 [834] | 89 [784] | 86 [758] | 194 [1721] | 92 [815] | 87 [767] | 84 [741] | ,16 [ 1.4] | 6,68 [59.1] |
| UT075-040 | 40:1 | 99 [880] | 94 [829] | 91 [802] | 205 [1813] | 97 [861] | 92 [811] | 89 [785] | ,16 [ 1.4] | 7,37 [65.2] |
| UT075-050 | 50:1 | 96 [849] | 91 [801] | 88 [777] | 197 [1743] | 94 [830] | 89 [784] | 86 [759] | ,16 [ 1.4] | 7,22 [63.9] |
| UT075-070 | 70:1 | 91 [802] | 86 [760] | 83 [738] | 185 [1639] | 89 [784] | 84 [743] | 82 [722] | ,16 [ 1.4] | 6,48 [57.3] |
| UT075-100 | 100:1 | 63 [554] | 55 [486] | 52 [456] | 173 [1529] | 58 [513] | 51 [450] | 48 [422] | ,15 [ 1.3] | 4,50 [39.8] |

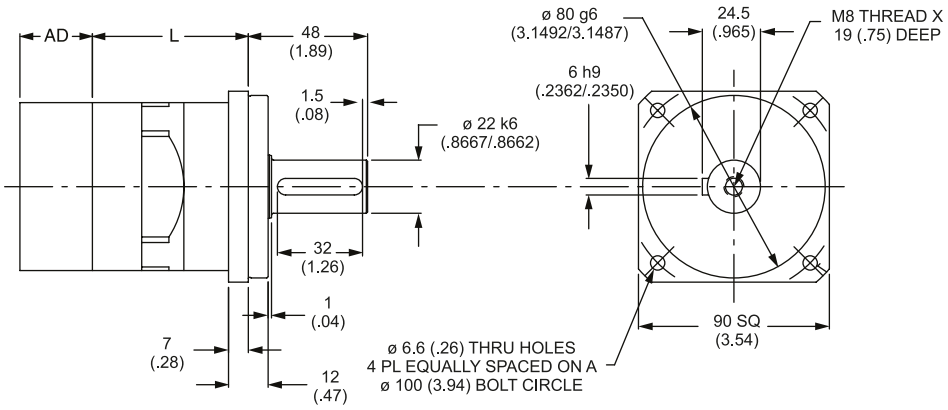
**All ratios are available to ship in 24 hours through the Gearhead Express Program.**

[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# UltraTRUE Size 90

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 68 [2.66] | 4 max | 2,5 [5.5] | 95% |
| 16:1 to 100:1 | 125 [4.91] | 5 max | 3,0 [6.6] | 90% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length and width will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

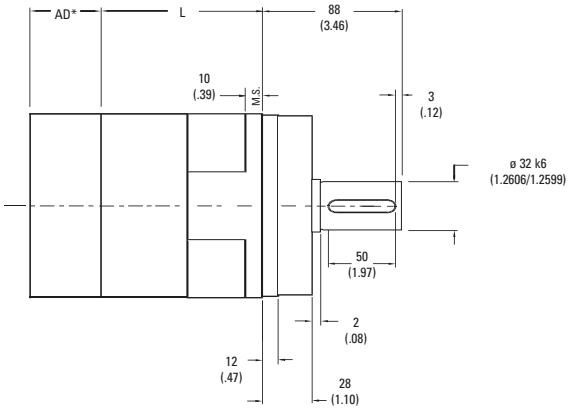
| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT090-004 | 4:1 | 86 [762] | 78 [689] | 73 [649] | 179 [1581] | 84 [746] | 74 [652] | 63 [559] | ,46 [4.1] | 7,00 [61.9] |
| UT090-005 | 5:1 | 84 [740] | 76 [672] | 72 [636] | 174 [1537] | 82 [723] | 74 [657] | 66 [583] | ,38 [3.4] | 6,86 [60.7] |
| UT090-007 | 7:1 | 80 [706] | 73 [646] | 69 [615] | 166 [1469] | 78 [690] | 71 [632] | 68 [601] | ,31 [2.8] | 6,07 [53.7] |
| UT090-010 | 10:1 | 47 [418] | 41 [360] | 38 [335] | 157 [1393] | 44 [387] | 38 [333] | 35 [310] | ,27 [2.4] | 4,46 [39.5] |
| UT090-016 | 16:1 | 95 [838] | 88 [780] | 85 [749] | 197 [1743] | 93 [820] | 86 [762] | 83 [732] | ,31 [2.8] | 7,36 [65.1] |
| UT090-020 | 20:1 | 96 [849] | 90 [792] | 86 [762] | 199 [1762] | 94 [830] | 88 [775] | 84 [746] | ,31 [2.8] | 7,20 [63.7] |
| UT090-025 | 25:1 | 93 [820] | 87 [767] | 84 [740] | 192 [1698] | 91 [801] | 85 [750] | 82 [723] | ,31 [2.8] | 7,07 [62.6] |
| UT090-028 | 28:1 | 98 [864] | 92 [811] | 88 [782] | 202 [1789] | 96 [845] | 90 [793] | 86 [765] | ,28 [2.5] | 6,45 [57.1] |
| UT090-035 | 35:1 | 94 [834] | 89 [784] | 86 [758] | 194 [1721] | 92 [815] | 87 [767] | 84 [741] | ,16 [1.4] | 6,68 [59.1] |
| UT090-040 | 40:1 | 99 [880] | 94 [829] | 91 [802] | 205 [1813] | 97 [861] | 92 [811] | 89 [785] | ,16 [1.4] | 7,37 [65.2] |
| UT090-050 | 50:1 | 96 [849] | 91 [801] | 88 [777] | 197 [1743] | 94 [830] | 89 [784] | 86 [759] | ,16 [1.4] | 7,22 [63.9] |
| UT090-070 | 70:1 | 91 [802] | 86 [760] | 83 [738] | 185 [1639] | 89 [784] | 84 [743] | 82 [722] | ,16 [1.4] | 6,48 [57.3] |
| UT090-100 | 100:1 | 63 [554] | 55 [486] | 52 [456] | 173 [1529] | 58 [513] | 51 [450] | 48 [422] | ,15 [1.3] | 4,50 [39.8] |

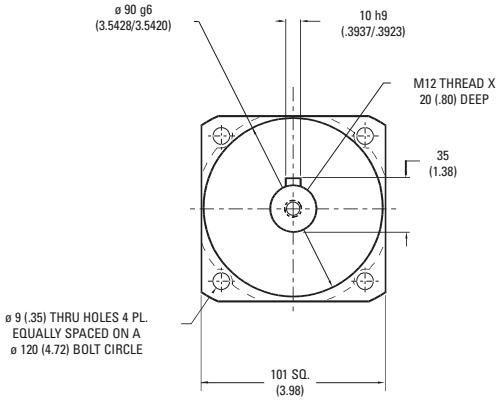
[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# UltraTRUE™ Size 10

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 78 [3.07] | 4 max | 6 [13] | 95% |
| 16:1 to 100:1 | 146 [5.75] | 5 max | 8 [18] | 90% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length and width will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

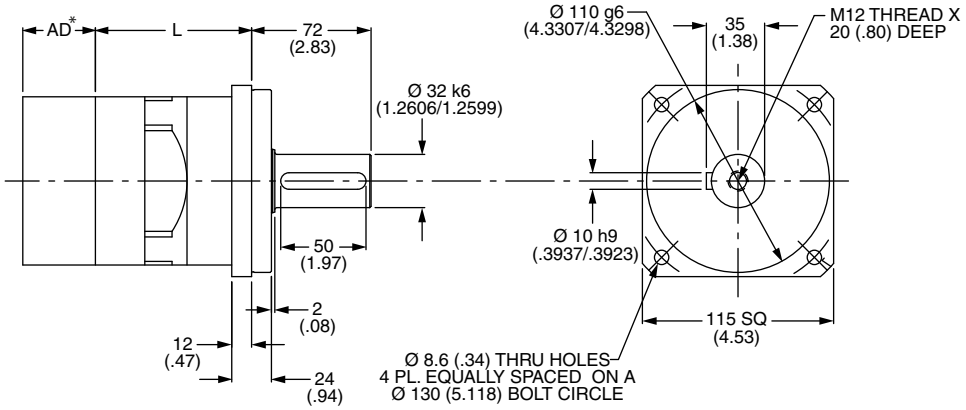
| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT010-004 | 4:1 | 252 [2229] | 217 [1922] | 186 [1649] | 514 [4548] | 245 [2171] | 176 [1561] | 151 [1340] | 1,58 [14.0] | 25,7 [227] |
| UT010-005 | 5:1 | 245 [2168] | 220 [1950] | 194 [1720] | 501 [4434] | 240 [2120] | 184 [1628] | 158 [1397] | 1,36 [12.0] | 22,8 [202] |
| UT010-007 | 7:1 | 234 [2074] | 213 [1882] | 201 [1780] | 481 [4256] | 229 [2028] | 196 [1736] | 168 [1489] | ,97 [ 8.6] | 21,1 [187] |
| UT010-010 | 10:1 | 138 [1220] | 118 [1048] | 110 [971] | 457 [4044] | 128 [1129] | 110 [969] | 102 [898] | ,90 [ 8.0] | 14,4 [128] |
| UT010-016 | 16:1 | 279 [2471] | 258 [2284] | 247 [2184] | 575 [5085] | 273 [2416] | 252 [2233] | 229 [2030] | 1,10 [9.7] | 27,3 [242] |
| UT010-020 | 20:1 | 283 [2505] | 263 [2325] | 252 [2229] | 582 [5152] | 277 [2450] | 257 [2273] | 245 [2171] | 1,10 [9.7] | 24,3 [215] |
| UT010-025 | 25:1 | 274 [2422] | 255 [2256] | 245 [2168] | 562 [4974] | 268 [2368] | 249 [2206] | 240 [2120] | 1,10 [9.7] | 24,3 [215] |
| UT010-028 | 28:1 | 289 [2554] | 269 [2384] | 259 [2293] | 592 [5242] | 282 [2498] | 263 [2331] | 253 [2242] | ,94 [8.3] | 21,1 [187] |
| UT010-035 | 35:1 | 279 [2468] | 261 [2310] | 252 [2227] | 571 [5054] | 273 [2413] | 255 [2259] | 246 [2177] | ,79 [7.0] | 20,9 [185] |
| UT010-040 | 40:1 | 294 [2604] | 276 [2442] | 266 [2357] | 602 [5327] | 288 [2546] | 270 [2388] | 260 [2305] | ,79 [7.0] | 27,4 [243] |
| UT010-050 | 50:1 | 284 [2514] | 267 [2364] | 258 [2286] | 579 [5128] | 278 [2458] | 261 [2312] | 253 [2235] | ,78 [6.9] | 24,1 [213] |
| UT010-070 | 70:1 | 269 [2380] | 254 [2246] | 246 [2177] | 546 [4832] | 263 [2327] | 248 [2197] | 241 [2129] | ,78 [6.9] | 21,1 [187] |
| UT010-100 | 100:1 | 184 [1626] | 161 [1423] | 151 [1335] | 510 [4510] | 170 [1504] | 149 [1317] | 140 [1235] | ,78 [6.9] | 17,2 [152] |

**All ratios are available to ship in 24 hours through the Gearhead Express Program.**

[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# UltraTRUE Size 115

## Helical True Planetary Gearheads — Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 94 [3.70] | 4 max | 6 [13] | 95% |
| 16:1 to 100:1 | 162 [6.38] | 5 max | 6 [18] | 88% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length and width will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

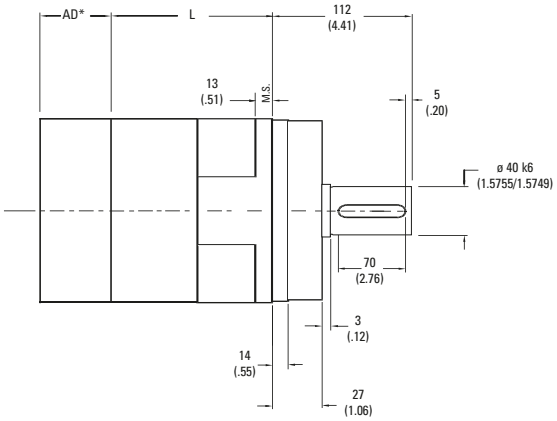
| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT115-004 | 4:1 | 252 [2229] | 217 [1922] | 186 [1649] | 514 [4548] | 245 [2171] | 176 [1561] | 151 [1340] | 1,58 [14.0] | 25,7 [227] |
| UT115-005 | 5:1 | 245 [2168] | 220 [1950] | 194 [1720] | 501 [4434] | 240 [2120] | 184 [1628] | 158 [1397] | 1,36 [12.0] | 22,8 [202] |
| UT115-007 | 7:1 | 234 [2074] | 213 [1882] | 201 [1780] | 481 [4256] | 229 [2028] | 196 [1736] | 168 [1489] | ,97 [ 8.6] | 21,1 [187] |
| UT115-010 | 10:1 | 138 [1220] | 118 [1048] | 110 [971] | 457 [4044] | 128 [1129] | 110 [969] | 102 [898] | ,90 [ 8.0] | 14,4 [128] |
| UT115-016 | 16:1 | 279 [2471] | 258 [2284] | 247 [2184] | 575 [5085] | 273 [2416] | 252 [2233] | 229 [2030] | 1,10 [9.7] | 27,3 [242] |
| UT115-020 | 20:1 | 283 [2505] | 263 [2325] | 252 [2229] | 582 [5152] | 277 [2450] | 257 [2273] | 245 [2171] | 1,10 [9.7] | 24,3 [215] |
| UT115-025 | 25:1 | 274 [2422] | 255 [2256] | 245 [2168] | 562 [4974] | 268 [2368] | 249 [2206] | 240 [2120] | 1,10 [9.7] | 24,3 [215] |
| UT115-028 | 28:1 | 289 [2554] | 269 [2384] | 259 [2293] | 592 [5242] | 282 [2498] | 263 [2331] | 253 [2242] | ,94 [8.3] | 21,1 [187] |
| UT115-035 | 35:1 | 279 [2468] | 261 [2310] | 252 [2227] | 571 [5054] | 273 [2413] | 255 [2259] | 246 [2177] | ,79 [7.0] | 20,9 [185] |
| UT115-040 | 40:1 | 294 [2604] | 276 [2442] | 266 [2357] | 602 [5327] | 288 [2546] | 270 [2388] | 260 [2305] | ,79 [7.0] | 27,4 [243] |
| UT115-050 | 50:1 | 284 [2514] | 267 [2364] | 258 [2286] | 579 [5128] | 278 [2458] | 261 [2312] | 253 [2235] | ,78 [6.9] | 24,1 [213] |
| UT115-070 | 70:1 | 269 [2380] | 254 [2246] | 246 [2177] | 546 [4832] | 263 [2327] | 248 [2197] | 241 [2129] | ,78 [6.9] | 21,1 [187] |
| UT115-100 | 100:1 | 184 [1626] | 161 [1423] | 151 [1335] | 510 [4510] | 170 [1504] | 149 [1317] | 140 [1235] | ,78 [6.9] | 17,2 [152] |

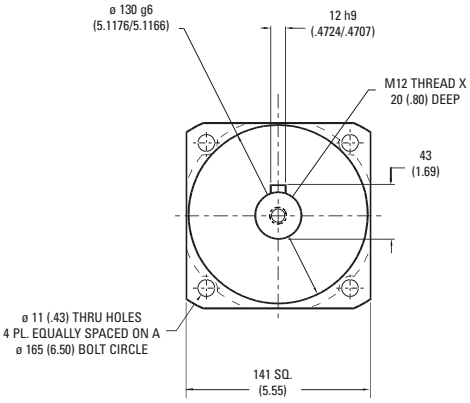
[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# UltraTRUE™ Size 14

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 110,5 [4.35] | 4 max | 14 [31] | 95% |
| 16:1 to 100:1 | 195 [7.69] | 5 max | 18 [40] | 90% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length and width will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT014-004 | 4:1 | 588 [5207] | 521 [4613] | 454 [4022] | 1184 [10,479] | 575 [5092] | 430 [3808] | 369 [3267] | 6,51 [57.6] | 55 [487] |
| UT014-005 | 5:1 | 572 [5066] | 511 [4519] | 474 [4191] | 1156 [10,229] | 560 [4954] | 448 [3968] | 385 [3404] | 5,02 [44.4] | 51 [452] |
| UT014-007 | 7:1 | 549 [4857] | 494 [4375] | 466 [4120] | 1113 [9851] | 537 [4749] | 478 [4232] | 410 [3631] | 3,80 [33.6] | 47 [420] |
| UT014-010 | 10:1 | 329 [2913] | 282 [2492] | 260 [2304] | 1062 [9399] | 305 [2696] | 261 [2306] | 241 [2132] | 3,39 [30.0] | 35 [311] |
| UT014-016 | 16:1 | 657 [5817] | 604 [5346] | 576 [5095] | 1340 [11,860] | 643 [5688] | 591 [5227] | 559 [4951] | 4,21 [37.2] | 58 [514] |
| UT014-020 | 20:1 | 667 [5902] | 616 [5449] | 588 [5207] | 1360 [12,035] | 652 [5772] | 602 [5328] | 575 [5092] | 4,07 [36.0] | 54 [479] |
| UT014-025 | 25:1 | 645 [5706] | 598 [5288] | 572 [5066] | 1314 [11,625] | 630 [5579] | 584 [5171] | 560 [4954] | 4,07 [36.0] | 54 [479] |
| UT014-028 | 28:1 | 681 [6026] | 632 [5597] | 607 [5369] | 1387 [12,274] | 666 [5892] | 618 [5473] | 593 [5250] | 3,53 [31.2] | 47 [417] |
| UT014-035 | 35:1 | 658 [5820] | 613 [5424] | 589 [5215] | 1338 [11,837] | 643 [5691] | 599 [5304] | 576 [5099] | 2,99 [26.4] | 44 [391] |
| UT014-040 | 40:1 | 695 [6150] | 649 [5745] | 625 [5530] | 1412 [12,498] | 680 [6014] | 635 [5617] | 611 [5408] | 2,99 [26.4] | 58 [512] |
| UT014-050 | 50:1 | 671 [5935] | 628 [5560] | 606 [5363] | 1360 [12,034] | 656 [5803] | 614 [5437] | 593 [5244] | 2,85 [25.2] | 54 [479] |
| UT014-070 | 70:1 | 635 [5623] | 598 [5291] | 578 [5118] | 1283 [11,359] | 621 [5499] | 585 [5174] | 565 [5004] | 2,85 [25.2] | 49 [435] |
| UT014-100 | 100:1 | 441 [3898] | 385 [3407] | 361 [3193] | 1201 [10,627] | 408 [3607] | 356 [3153] | 334 [2954] | 2,85 [25.2] | 35 [312] |

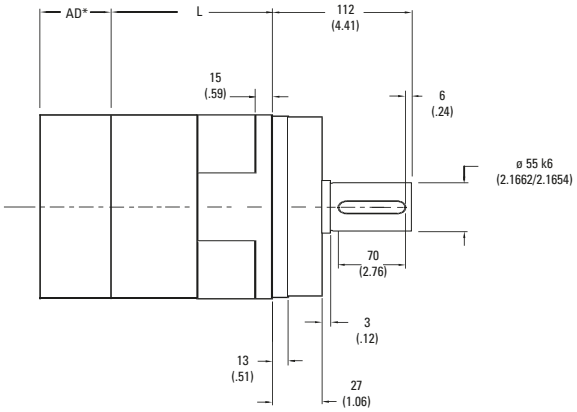
**All ratios are available to ship in 24 hours through the Gearhead Express Program.**

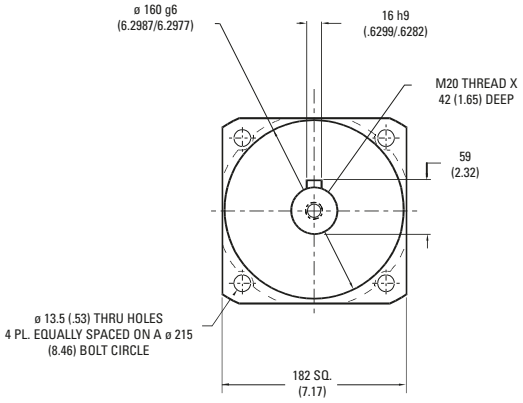
[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# UltraTRUE Size 18

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' in. [mm] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 136 [5.35] | 4 max | 40 [88] | 95% |
| 16:1 to 100:1 | 242 [9.54] | 5 max | 45 [99] | 90% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length and width will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

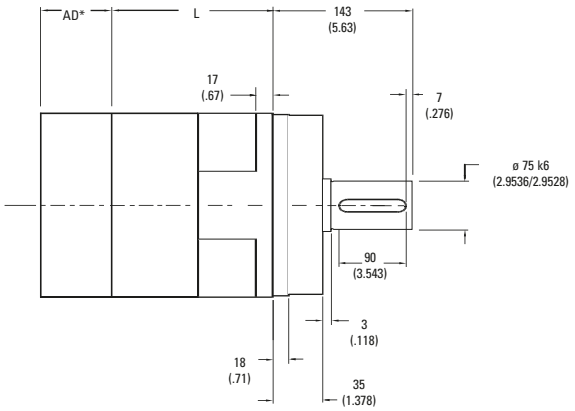
## Performance Specifications

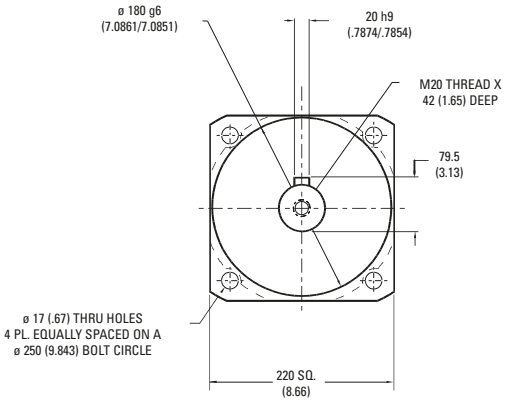
| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT018-004 | 4:1 | 1368 [12108] | 1184 [10476] | 1016 [8988] | 2713 [24010] | 1337 [11832] | 962 [8509] | 825 [7300] | 25,9 [229] | 153 [1358] |
| UT018-005 | 5:1 | 1333 [11800] | 1179 [10430] | 1058 [9366] | 2654 [23492] | 1304 [11539] | 1002 [8868] | 860 [7608] | 20,0 [177] | 150 [1330] |
| UT018-007 | 7:1 | 1281 [11338] | 1144 [10128] | 1073 [9494] | 2565 [22699] | 1253 [11087] | 1069 [9458] | 917 [8114] | 14,6 [129] | 134 [1185] |
| UT018-010 | 10:1 | 775 [6856] | 660 [5841] | 609 [5387] | 2456 [21734] | 717 [6344] | 611 [5404] | 563 [4984] | 13,0 [115] | 101 [893] |
| UT018-016 | 16:1 | 1541 [13641] | 1408 [12457] | 1336 [11827] | 3111 [27532] | 1507 [13339] | 1376 [12181] | 1250 [11065] | 16,1 [142] | 161 [1429] |
| UT018-020 | 20:1 | 1566 [13855] | 1437 [12716] | 1368 [12108] | 3162 [27986] | 1531 [13549] | 1405 [12434] | 1337 [11832] | 15,6 [138] | 156 [1382] |
| UT018-025 | 25:1 | 1515 [13407] | 1396 [12359] | 1333 [11800] | 3060 [27078] | 1481 [13110] | 1366 [12085] | 1304 [11539] | 15,6 [138] | 131 [1160] |
| UT018-028 | 28:1 | 1600 [14164] | 1479 [13088] | 1414 [12515] | 3233 [28612] | 1565 [13851] | 1446 [12798] | 1383 [12237] | 13,5 [119] | 138 [1225] |
| UT018-035 | 35:1 | 1547 [13691] | 1435 [12701] | 1376 [12174] | 3122 [27633] | 1513 [13388] | 1403 [12420] | 1345 [11904] | 11,4 [101] | 124 [1098] |
| UT018-040 | 40:1 | 1636 [14475] | 1521 [13460] | 1460 [12920] | 3300 [29201] | 1599 [14154] | 1487 [13162] | 1428 [12634] | 11,4 [101] | 161 [1429] |
| UT018-050 | 50:1 | 1579 [13978] | 1474 [13042] | 1418 [12547] | 3181 [28153] | 1544 [13668] | 1441 [12754] | 1386 [12269] | 10,9 [96] | 156 [1382] |
| UT018-070 | 70:1 | 1498 [13256] | 1404 [12429] | 1355 [11993] | 3008 [26621] | 1465 [12963] | 1373 [12154] | 1325 [11728] | 10,9 [96] | 138 [1225] |
| UT018-100 | 100:1 | 1042 [9218] | 909 [8043] | 851 [7528] | 2819 [24949] | 964 [8529] | 841 [7442] | 787 [6966] | 10,9 [96] | 103 [908] |

# UltraTRUE™ Size 22

## Helical True Planetary Gearheads

Metric




| Ratio[1] | Dimension 'L' mm [in.] | Backlash [arc-min] | Weight kg [lb.] | Efficiency |
|---|---|---|---|---|
| 4:1 to 10:1 | 142.6 [5.15] | 4 max | 74 [162] | 93% |
| 16:1 to 100:1 | 243.6 [9.60] | 5 max | 95 [209] | 88% |

All dimensions are: mm (in.)
AD** = Adapter length
Adapter length will vary depending on motor.
M.S.= Mounting Surface
Efficiency is calculated at 100% of the rated torque.

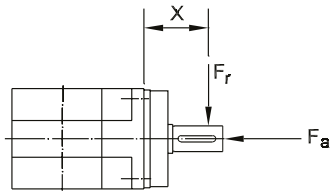
## Performance Specifications

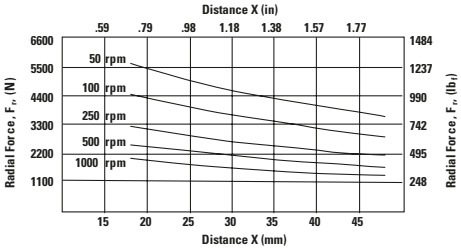
| Part Number | Ratio[1] | 10,000 Hour Life | | | T peak Nm [in.-lb.] | 20,000 Hour Life | | | J kg-cm² [in.-lb.-sec²x10⁻⁴] | Torsional Stiffness Nm/arc-min [in.-lb./arc-min] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | $T_r$ (1000 rpm) Nm [in.-lb.] | $T_r$ (3000 rpm) Nm [in.-lb.] | $T_r$ (5000 rpm) Nm [in.-lb.] | | |
| UT022-004 | 4:1 | 2256 [19694] | 1786 [15806] | 1532 [13560] | 4644 [41096] | 2017 [17850] | 1451 [12838] | 1245 [11014] | 87,0 [7.70] | 429 [3793] |
| UT022-005 | 5:1 | 2181 [19300] | 1862 [16475] | 1596 [14125] | 4548 [40250] | 2102 [18600] | 1511 [13375] | 1297 [11475] | 73,4 [6.50] | 414 [3661] |
| UT022-007 | 7:1 | 2090 [18496] | 1857 [16432] | 1703 [15073] | 4370 [38671] | 2042 [18075] | 1613 [14271] | 1383 [12243] | 62,6 [5.55] | 363 [3212] |
| UT022-010 | 10:1 | 1263 [11178] | 1072 [9488] | 987 [8737] | 4301 [38060] | 1167 [10325] | 992 [8779] | 914 [8085] | 56,9 [5.04] | 253 [2235] |
| UT022-016 | 16:1 | 2521 [20292] | 2293 [20292] | 2170 [19202] | 5247 [46437] | 2464 [21805] | 2199 [19459] | 1886 [16694] | 87,3 [7.73] | 436 [3858] |
| UT022-020 | 20:1 | 2561 [20732] | 2343 [20732] | 2224 [19683] | 5323 [47107] | 2504 [22164] | 2291 [20273] | 2017 [17850] | 73,6 [6.52] | 436 [3856] |
| UT022-025 | 25:1 | 2484 [20205] | 2283 [20205] | 2174 [19239] | 5151 [45583] | 2427 [21480] | 2232 [19757] | 2102 [18605] | 73,1 [6.47] | 418 [3699] |
| UT022-028 | 28:1 | 2620 [21365] | 2414 [21365] | 2302 [20375] | 5427 [48027] | 2560 [22660] | 2361 [20892] | 2231 [19476] | 62,7 [5.55] | 435 [3854] |
| UT022-035 | 35:1 | 2541 [20788] | 2349 [20788] | 2246 [19878] | 5243 [46397] | 2481 [21961] | 2297 [20327] | 2196 [19438] | 62,5 [5.53] | 418 [3698] |
| UT022-040 | 40:1 | 2680 [21998] | 2486 [21998] | 2381 [21069] | 5524 [48888] | 2619 [23182] | 2431 [21510] | 2328 [20602] | 57,2 [5.06] | 435 [3851] |
| UT022-050 | 50:1 | 2595 [21371] | 2415 [21371] | 2318 [20516] | 5328 [47156] | 2536 [22443] | 2361 [20898] | 2267 [20062] | 57,1 [5.05] | 418 [3696] |
| UT022-070 | 70:1 | 2461 [20373] | 2302 [20373] | 2217 [19623] | 5025 [44470] | 2405 [21288] | 2251 [19922] | 2168 [19189] | 57,0 [5.04] | 366 [3226] |
| UT022-100 | 100:1 | 1666 [13121] | 1483 [13121] | 1387 [12273] | 4852 [42941] | 1571 [13902] | 1369 [12116] | 1283 [11356] | 56,9 [5.04] | 253 [2238] |

[1] Ratios are exact, higher ratios are also available, consult factory.
$T_r$ = Rated output torque at rated speed for specific hours of life.
$T_{peak}$ = Allowable momentary peak torque for emergency stop or heavy shock loading.
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

# Radial and Axial Load Ratings

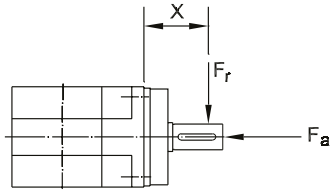
## UT006

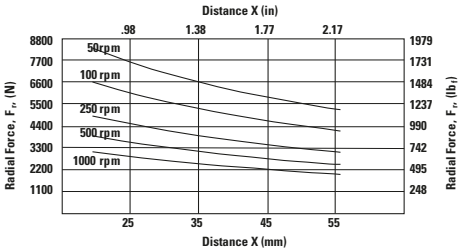



| Speed rpm | Axial Load, $F_a$ N [lb$_f$] |
|---|---|
| 50 | 7198 [1618] |
| 100 | 5710 [1284] |
| 250 | 4208 [946] |
| 500 | 3342 [751] |
| 1000 | 2652 [596] |

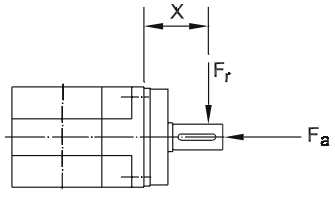
## UT075

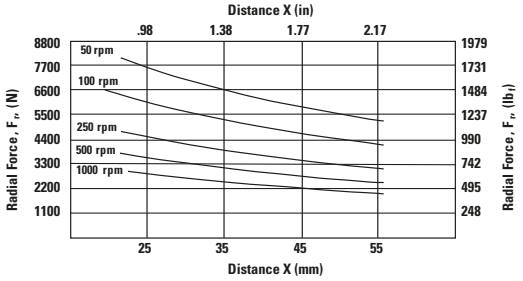



| Speed rpm | Axial Load, $F_a$ N [lb$_f$] |
|---|---|
| 50 | 9903 [2227] |
| 100 | 7863 [1768] |
| 250 | 5793 [1303] |
| 500 | 4599 [1034] |
| 1000 | 3650 [821] |

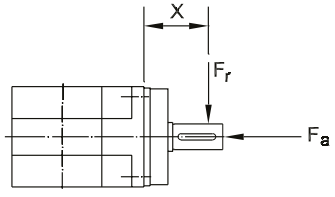
## UT090

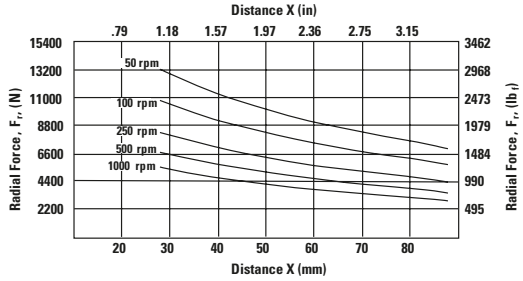



| Speed rpm | Axial Load, $F_a$ N [lb$_f$] |
|---|---|
| 50 | 9903 [2227] |
| 100 | 7863 [1768] |
| 250 | 5793 [1303] |
| 500 | 4599 [1034] |
| 1000 | 3650 [821] |

## UT010



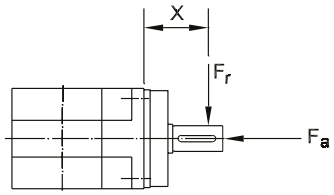



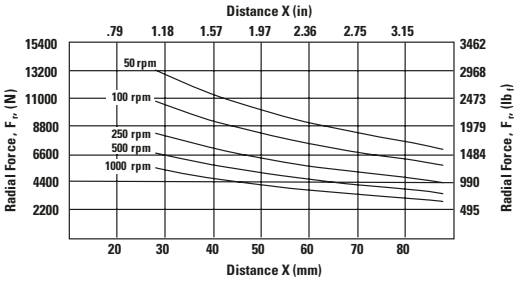

| Speed rpm | Axial Load, $F_a$ N [lb$_f$] |
|---|---|
| 50 | 13,675 [3075] |
| 100 | 11,107 [2497] |
| 250 | 8435 [1897] |
| 500 | 6855 [1542] |
| 1000 | 5568 [1252] |

These graphs display the allowable radial load at a given distance (X) from the mounting surface based on an $L_{10}$ life of 10,000 hours for the mean output speed $n_{mout}$ , as described on page 9.

# Radial and Axial Load Ratings

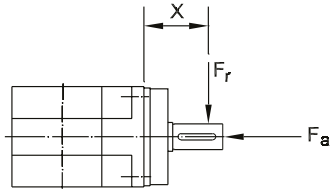
## UT115

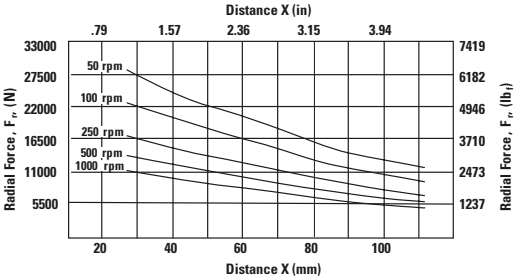



| Speed rpm | Axial Load, $F_a$ N [$lb_f$] |
|---|---|
| 50 | 13,675 [3075] |
| 100 | 11,107 [2497] |
| 250 | 8435 [1897] |
| 500 | 6855 [1542] |
| 1000 | 5568 [1252] |

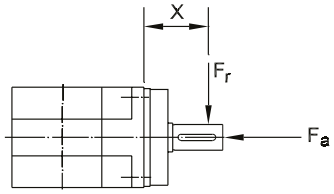
## UT014

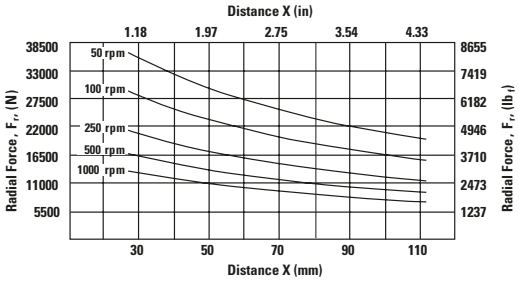



| Speed rpm | Axial Load, $F_a$ N [$lb_f$] |
|---|---|
| 50 | 25,374 [5705] |
| 100 | 20,609 [4633] |
| 250 | 15,657 [3520] |
| 500 | 12,716 [2859] |
| 1000 | 10,329 [2322] |

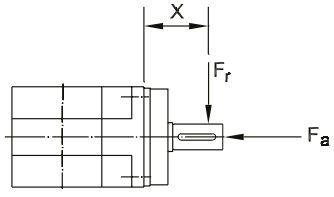
## UT018

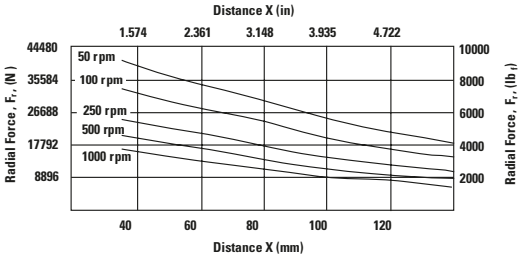



| Speed rpm | Axial Load, $F_a$ N [$lb_f$] |
|---|---|
| 50 | 34,538 [7765] |
| 100 | 27,414 [6163] |
| 250 | 20,197 [4541] |
| 500 | 16,034 [3605] |
| 1000 | 12,726 [2861] |

## UT022




| Speed rpm | Axial Load, $F_a$ N [$lb_f$] |
|---|---|
| 50 | 32,351 [3655] |
| 100 | 26,277 [2969] |
| 250 | 19,962 [2256] |
| 500 | 16,214 [1832] |

These graphs display the allowable radial load at a given distance (X) from the mounting surface based on an $L_{10}$ life of 10,000 hours for the mean output speed $n_{mout}$ , as described on page 9.

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