

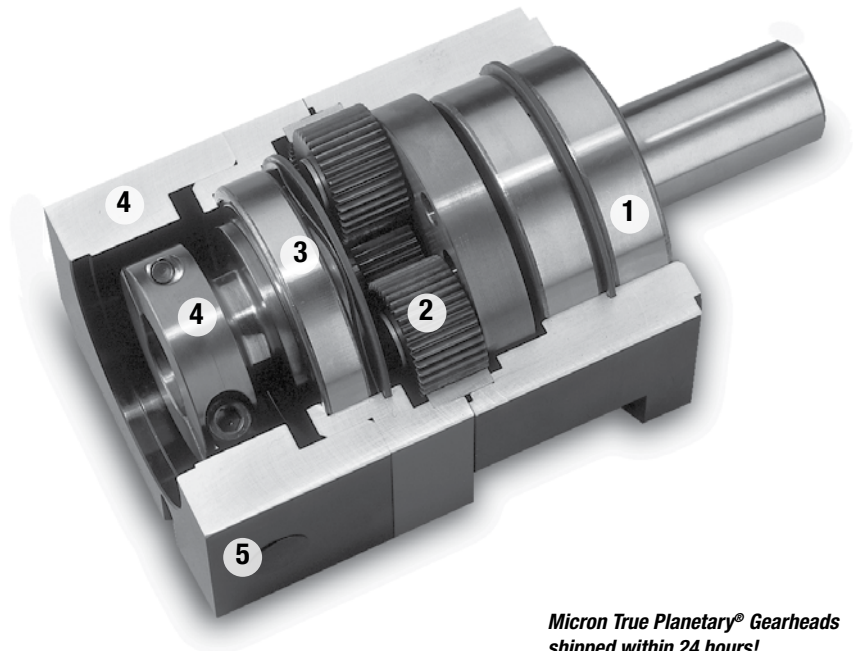
Micron TRUE Planetary® Gearheads

DuraTRUE™

Ready for Immediate Delivery

Precision	8 arc-minutes
Frame Sizes	60 mm, 90 mm, 115 mm and 142 mm
Torque Capacity	up to 834 Nm
Ratio Availability	3:1 thru 100:1
Radial load capacity	up to 11150 N
Mounting System	RediMount™

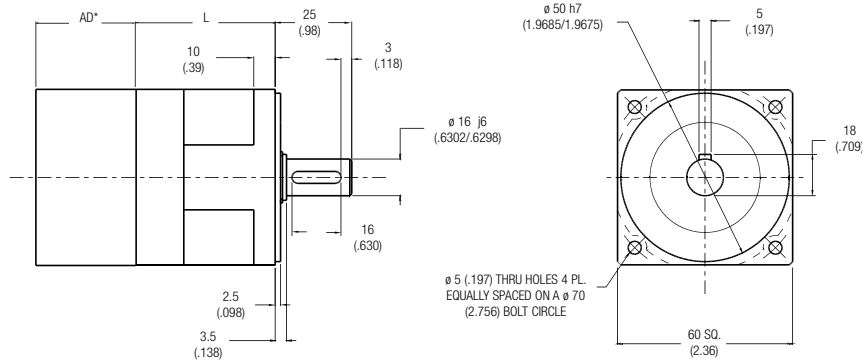
- ① **Sealed deep groove ball bearings**
provide high radial load carrying capability
- ② **HRC 55-60 steel gears**
provide superior wear resistance
and increased backlash integrity
- ③ **Sealed deep groove ball bearing**
provides precision alignment of sun gear
- ④ **RediMount system**
provides error-free motor installation
- ⑤ **Anodized aluminum housing**
reduces weight and prevents corrosion



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



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this catalog for details.**



Ratio ¹	Dimension 'L' mm [in.]	Backlash [arc-min]	Weight kg [lb.]	Efficiency
3:1 to 10:1	53 [2.07]	8 max	1,0 [2.2]	93%
15:1 to 100:1	70 [2.76]	9 max	1,2 [2.7]	88%

All dimensions are: mm (in.)

AD** = Adapter length

Adapter length will vary depending on motor.

Efficiency is calculated at 100% of the rated torque.

Performance Specifications

Part Number	Ratio ¹	10000 Hour Life				T _{peak} Nm [in.-lb.]	20000 Hour Life				J kg-cm ² [in.-lb.-sec ² ×10 ⁻⁴]	Torsional Stiffness Nm/arc-min [in.-lb./arc-min]
		T _r (1000 rpm) Nm [in.-lb.]	T _r (2000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (4000 rpm) Nm [in.-lb.]		T _r (1000 rpm) Nm [in.-lb.]	T _r (2000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (4000 rpm) Nm [in.-lb.]		
DT060-003	3:1	15 [134]	12 [109]	11 [97]	89 [10]	52 [460]	12 [109]	10 [89]	9 [79]	8 [72]	0,52 [4.6]	0,9 [8.1]
DT060-004	4:1	19 [168]	16 [142]	14 [124]	115 [13]	44 [385]	16 [142]	13 [115]	12 [106]	11 [97]	0,46 [4.1]	0,9 [7.9]
DT060-005	5:1	17 [148]	14 [120]	12 [106]	98 [11]	46 [410]	14 [120]	11 [98]	10 [86]	9 [79]	0,46 [4.1]	0,9 [7.9]
DT060-007	7:1	16 [142]	13 [115]	11 [97]	89 [10]	41 [363]	13 [115]	10 [89]	9 [80]	8 [71]	0,46 [4.1]	0,9 [7.9]
DT060-010	10:1	15 [134]	14 [121]	13 [114]	108 [12]	45 [400]	14 [124]	13 [112]	11 [100]	10 [92]	0,44 [3.9]	0,8 [6.8]
DT060-015	15:1	25 [218]	20 [177]	18 [157]	144 [16]	52 [460]	20 [177]	16 [144]	14 [127]	13 [117]	0,46 [4.1]	0,9 [8.2]
DT060-020	20:1	26 [230]	24 [212]	21 [186]	177 [20]	46 [407]	24 [212]	20 [177]	18 [159]	17 [150]	0,46 [4.1]	0,9 [7.9]
DT060-025	25:1	24 [214]	22 [195]	19 [172]	158 [18]	52 [456]	22 [195]	18 [158]	16 [140]	15 [128]	0,46 [4.1]	0,9 [8.3]
DT060-030	30:1	28 [246]	25 [218]	22 [193]	177 [20]	52 [460]	25 [218]	20 [177]	18 [157]	16 [144]	0,44 [3.9]	1,0 [8.7]
DT060-040	40:1	27 [239]	26 [230]	26 [230]	212 [24]	46 [407]	27 [239]	24 [212]	21 [186]	20 [177]	0,44 [3.9]	0,9 [8.3]
DT060-050	50:1	25 [222]	24 [214]	24 [209]	195 [22]	52 [460]	25 [217]	22 [195]	19 [172]	18 [158]	0,44 [3.9]	0,9 [8.2]
DT060-070	70:1	24 [212]	23 [204]	23 [204]	186 [21]	46 [407]	24 [212]	21 [186]	18 [159]	17 [150]	0,44 [3.9]	0,9 [8.3]
DT060-100	100:1	20 [180]	19 [165]	18 [157]	151 [17]	51 [447]	19 [167]	17 [153]	16 [145]	16 [140]	0,44 [3.9]	0,9 [7.8]

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

¹ Ratios are exact, higher ratios and other custom options are also available, consult factory.

T_r = Rated output torque at rated speed for specific hours of life.

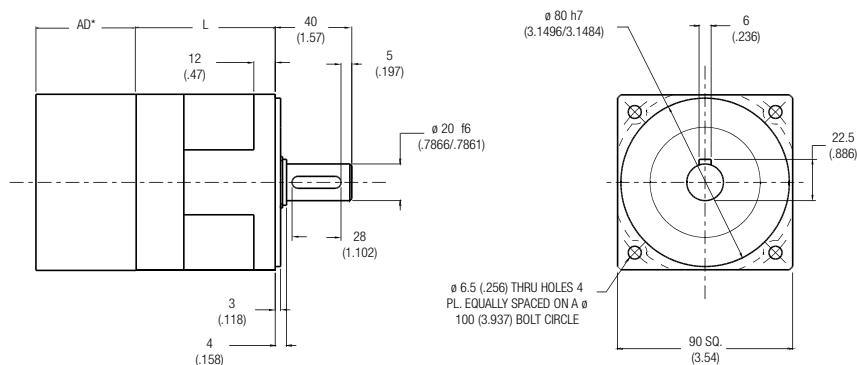
T_{peak} = Allowable momentary peak torque for emergency stop or heavy shock loading.

J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

Micron TRUE Planetary® Gearheads

DuraTRUE™ Size 90

Metric



Ratio ¹	Dimension 'L' mm [in.]	Backlash [arc-min]	Weight kg [lb.]	Efficiency
3:1 to 10:1	67 [2.63]	8 max	3,0 [6.6]	93%
15:1 to 100:1	90 [3.53]	9 max	3,7 [8.1]	88%

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

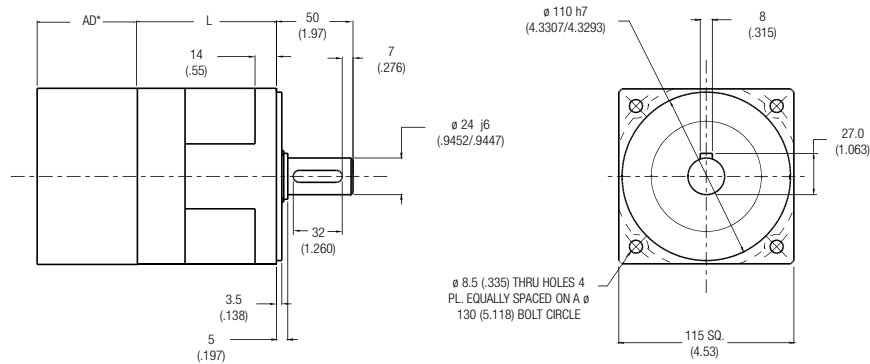
Performance Specifications

Part Number	Ratio ¹	10000 Hour Life				T _{peak} Nm [in.-lb.]	20000 Hour Life				J kg-cm ² [in.-lb.-sec ² ×10 ⁻⁴]	Torsional Stiffness Nm/arc-min [in.-lb./arc-min]
		T _r (1000 rpm) Nm [in.-lb.]	T _r (2000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (4000 rpm) Nm [in.-lb.]		T _r (1000 rpm) Nm [in.-lb.]	T _r (2000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (4000 rpm) Nm [in.-lb.]		
DT090-003	3:1	69 [614]	56 [499]	50 [442]	46 [405]	167 [1479]	56 [499]	46 [405]	41 [359]	37 [329]	2,22 [1.97]	4,9 [43.3]
DT090-004	4:1	80 [708]	67 [593]	60 [531]	55 [487]	157 [1389]	67 [593]	55 [487]	50 [443]	46 [407]	1,84 [1.60]	4,8 [42.4]
DT090-005	5:1	75 [664]	62 [549]	55 [486]	50 [446]	157 [1385]	62 [549]	50 [446]	45 [395]	41 [362]	1,76 [1.56]	4,8 [42.9]
DT090-007	7:1	73 [646]	60 [531]	53 [469]	48 [425]	157 [1389]	60 [531]	48 [425]	43 [381]	38 [336]	1,72 [1.50]	4,8 [42.4]
DT090-010	10:1	55 [488]	50 [439]	46 [411]	44 [392]	157 [1390]	51 [452]	46 [407]	43 [381]	41 [363]	1,63 [1.44]	4,0 [35.6]
DT090-015	15:1	93 [826]	84 [747]	79 [702]	74 [657]	167 [1479]	86 [764]	74 [657]	66 [582]	60 [534]	1,78 [1.58]	4,9 [43.7]
DT090-020	20:1	89 [788]	86 [761]	84 [743]	82 [726]	167 [1478]	88 [779]	84 [743]	77 [681]	71 [628]	1,77 [1.60]	4,8 [42.4]
DT090-025	25:1	84 [747]	81 [714]	78 [693]	77 [677]	167 [1479]	83 [730]	79 [698]	72 [640]	66 [587]	1,77 [1.56]	5,0 [44.5]
DT090-030	30:1	103 [908]	93 [826]	88 [780]	84 [747]	167 [1479]	95 [840]	86 [764]	81 [716]	74 [657]	1,64 [1.45]	4,9 [43.4]
DT090-040	40:1	93 [823]	89 [788]	87 [770]	86 [761]	167 [1478]	91 [805]	88 [779]	86 [761]	84 [743]	1,64 [1.40]	5,0 [44.2]
DT090-050	50:1	88 [776]	84 [747]	82 [728]	81 [714]	167 [1479]	86 [759]	83 [730]	81 [712]	79 [698]	1,63 [1.45]	5,0 [44.2]
DT090-070	70:1	86 [761]	82 [726]	80 [708]	79 [699]	167 [1478]	84 [743]	81 [717]	79 [699]	78 [690]	1,63 [1.40]	5,0 [44.2]
DT090-100	100:1	75 [663]	69 [608]	65 [576]	63 [555]	167 [1479]	69 [613]	64 [562]	60 [533]	58 [513]	1,63 [1.45]	4,4 [38.5]

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

¹ Ratios are exact, higher ratios and other custom options 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).



Ratio ¹	Dimension 'L' mm [in]	Backlash [arc-min]	Weight kg [lb]	Efficiency
3:1 to 10:1	88 [3.46]	8 max	5,7 [12.7]	93%
15:1 to 100:1	119 [4.69]	9 max	7,3 [16.2]	88%

All dimensions are: mm (inch)

AD** = Adapter length

Adapter length will vary depending on motor.

Efficiency is calculated at 100% of the rated torque.

Performance Specifications

Part Number	Ratio ¹	10000 Hour Life				T _{peak} Nm [in-lb]	20000 Hour Life				J kg-cm ² [in-lb-sec ² ×10 ⁻⁴]	Torsional Stiffness Nm/arc-min [in-lb/arc-min]
		T _r (1000 rpm) Nm [in-lb]	T _r (2000 rpm) Nm [in-lb]	T _r (3000 rpm) Nm [in-lb]	T _r (4000 rpm) Nm [in-lb]		T _r (1000 rpm) Nm [in-lb]	T _r (2000 rpm) Nm [in-lb]	T _r (3000 rpm) Nm [in-lb]	T _r (4000 rpm) Nm [in-lb]		
DT115-003	3:1	105 [932]	86 [757]	76 [670]	70 [615]	284 [2511]	86 [757]	70 [615]	62 [544]	56 [499]	4,39 [3.88]	13,9 [123.4]
DT115-004	4:1	123 [1089]	98 [867]	91 [805]	85 [752]	284 [2513]	102 [903]	85 [752]	75 [664]	70 [620]	3,1 [2.7]	13,9 [122.7]
DT115-005	5:1	116 [1025]	91 [803]	83 [738]	77 [677]	284 [2511]	94 [833]	77 [677]	68 [599]	62 [550]	2,88 [2.55]	11,6 [102.4]
DT115-007	7:1	113 [1000]	88 [779]	81 [717]	75 [664]	284 [2513]	92 [814]	75 [664]	65 [575]	60 [531]	2,81 [2.5]	13,9 [122.7]
DT115-010	10:1	90 [796]	81 [715]	76 [668]	72 [635]	284 [2511]	83 [737]	75 [661]	70 [618]	66 [588]	2,47 [2.18]	11,6 [102.4]
DT115-015	15:1	171 [1510]	139 [1226]	123 [1086]	113 [996]	284 [2511]	139 [1226]	113 [996]	100 [882]	91 [809]	2,95 [2.61]	12,9 [114.1]
DT115-020	20:1	175 [1549]	161 [1425]	143 [1266]	132 [1168]	284 [2513]	161 [1425]	132 [1168]	118 [1044]	109 [965]	2,95 [2.6]	13,9 [122.7]
DT115-025	25:1	167 [1474]	153 [1350]	135 [1195]	124 [1096]	284 [2511]	153 [1350]	124 [1096]	110 [971]	101 [891]	2,90 [2.57]	14,1 [125.0]
DT115-030	30:1	203 [1794]	171 [218]	151 [1337]	139 [1226]	284 [2513]	171 [1510]	139 [1226]	123 [1086]	113 [996]	2,48 [2.20]	14,1 [124.4]
DT115-040	40:1	181 [1602]	175 [1549]	190 [1682]	161 [1425]	284 [2513]	178 [1575]	161 [1425]	143 [1266]	132 [1168]	2,47 [2.2]	14,1 [124.4]
DT115-050	50:1	173 [1535]	167 [1474]	162 [1435]	153 [1350]	284 [2511]	170 [1510]	153 [1350]	135 [1195]	124 [1096]	2,47 [2.19]	14,1 [125.0]
DT115-070	70:1	171 [1513]	165 [1460]	180 [1593]	151 [1336]	284 [2513]	168 [1487]	151 [1336]	133 [1177]	122 [1080]	2,47 [2.2]	14,1 [124.4]
DT115-100	100:1	123 [1087]	112 [995]	107 [943]	103 [907]	284 [2511]	114 [1006]	104 [921]	99 [873]	95 [840]	2,47 [2.19]	11,4 [100.6]

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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.

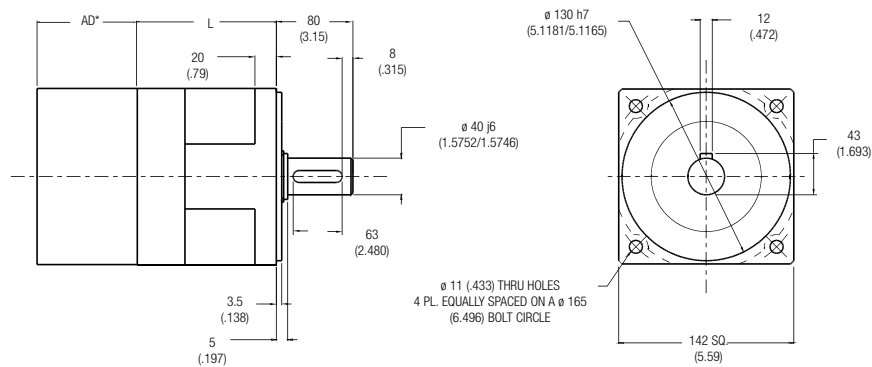
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

Micron TRUE Planetary® Gearheads

DuraTRUE™ Size 142

True Planetary Gearheads

Metric



Ratio ¹	Dimension 'L' mm [in.]	Backlash [arc-min]	Weight kg [lb.]	Efficiency
3:1 to 10:1	121 [4.77]	8 max	12,8 [28.3]	93%
15:1 to 100:1	170 [6.71]	9 max	17,2 [38.0]	88%

All dimensions are: mm (in.)

AD** = Adapter length

Adapter length will vary depending on motor.

Efficiency is calculated at 100% of the rated torque.

Performance Specifications

Part Number	Ratio ¹	10000 Hour Life				T _{peak} Nm [in.-lb.]	20000 Hour Life				J kg-cm ² [in.-lb.-sec ² ×10 ⁻⁴]	Torsional Stiffness Nm/arc-min [in.-lb./arc-min]
		T _r (1000 rpm) Nm [in.-lb.]	T _r (2000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (4000 rpm) Nm [in.-lb.]		T _r (1000 rpm) Nm [in.-lb.]	T _r (2000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (4000 rpm) Nm [in.-lb.]		
DT142-003	3:1	372 [3289]	302 [2671]	267 [2365]	245 [2170]	834 [7377]	302 [2671]	245 [2170]	217 [1921]	199 [1762]	23,2 [2.05]	51,8 [458.7]
DT142-004	4:1	430 [3806]	353 [3124]	315 [2788]	290 [2567]	834 [7381]	353 [3124]	290 [2567]	259 [2292]	239 [2115]	15,1 [1.3]	52,9 [467.1]
DT142-005	5:1	410 [3625]	333 [2944]	295 [2607]	270 [2391]	834 [7377]	333 [2944]	270 [2391]	239 [2118]	219 [1942]	14,7 [1.30]	52,6 [465.1]
DT142-007	7:1	405 [3584]	328 [2903]	290 [2597]	265 [2345]	834 [7381]	328 [2903]	265 [2345]	234 [2071]	214 [1894]	14,5 [1.3]	50,5 [445.9]
DT142-010	10:1	229 [2022]	204 [1808]	190 [1685]	181 [1598]	834 [7377]	211 [1871]	189 [1673]	176 [1559]	167 [1479]	12,1 [1.07]	41,3 [365.1]
DT142-015	15:1	524 [4634]	471 [4167]	433 [3833]	397 [3516]	834 [7377]	484 [4287]	397 [3516]	352 [3114]	323 [2856]	15,1 [1.34]	59,6 [527.6]
DT142-020	20:1	500 [4425]	476 [4213]	461 [4080]	450 [3983]	834 [7381]	489 [4328]	458 [4053]	408 [3611]	376 [3328]	14,8 [1.3]	58,5 [516.6]
DT142-025	25:1	480 [4248]	456 [4038]	441 [3903]	430 [3801]	834 [7377]	469 [4154]	438 [3876]	388 [3432]	356 [3148]	14,8 [1.31]	57,7 [510.6]
DT142-030	30:1	578 [5113]	524 [4634]	493 [4359]	471 [4167]	834 [7377]	535 [4731]	484 [4287]	433 [3833]	397 [3516]	12,2 [1.08]	59,9 [529.9]
DT142-040	40:1	521 [4611]	500 [4425]	486 [4301]	476 [4213]	834 [7381]	510 [4514]	489 [4328]	476 [4213]	458 [4053]	12,9 [1.1]	57,5 [507.7]
DT142-050	50:1	501 [4435]	480 [4248]	466 [4128]	456 [4038]	834 [7377]	490 [4336]	469 [4154]	456 [4037]	438 [3876]	12,1 [1.07]	57,8 [511.1]
DT142-070	70:1	496 [4390]	475 [4204]	461 [4080]	451 [3991]	834 [7381]	485 [4292]	464 [4106]	451 [3991]	433 [3882]	12,1 [1.1]	54,4 [480.4]
DT142-100	100:1	314 [2782]	287 [2543]	272 [2408]	262 [2314]	834 [7377]	291 [2574]	266 [2353]	252 [2228]	242 [2141]	12,1 [1.07]	42,9 [379.5]

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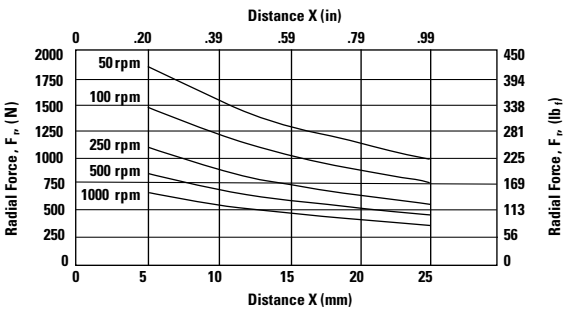
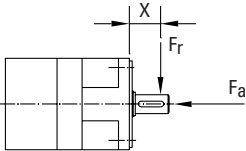
T_r = Rated output torque at rated speed for specific hours of life.

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J = Mass moment of inertia reflected to the input shaft (including pinion assembly).

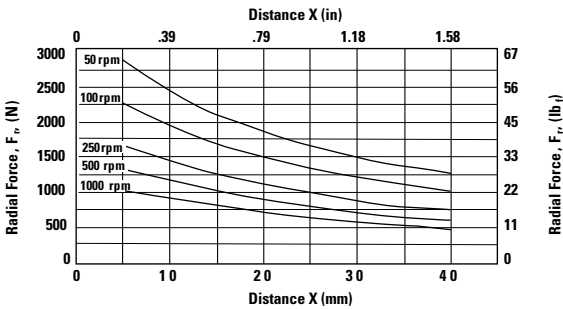
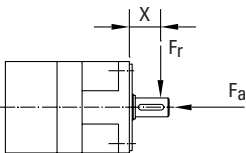
Radial and Axial Load Ratings

DT060



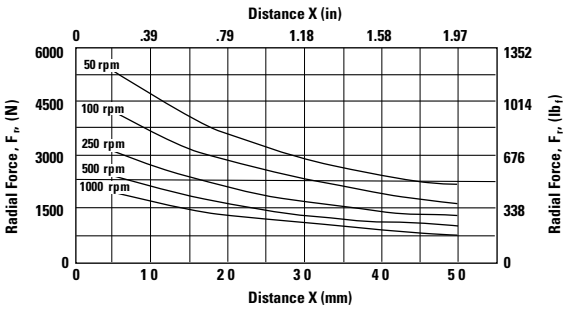
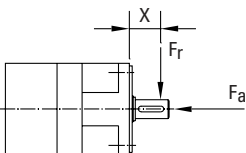
Speed rpm	Axial Load, F_a N [lb.]
50	3075 [692]
100	2441 [549]
250	1798 [405]
500	1427 [321]
1000	1133 [255]

DT090



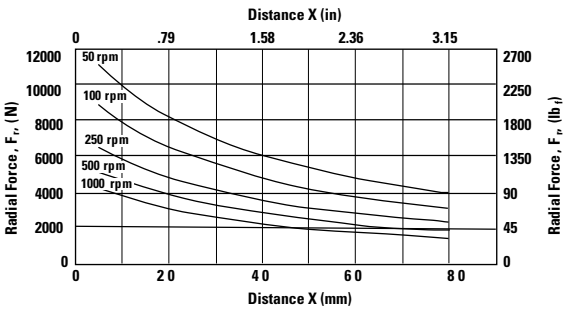
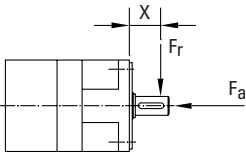
Speed rpm	Axial Load, F_a N [lb.]
50	4506 [1014]
100	3576 [805]
250	2635 [593]
500	2091 [471]
1000	1660 [373]

DT115



Speed rpm	Axial Load, F_a N [lb.]
50	8196 [1844]
100	6505 [1464]
250	4793 [1078]
500	3804 [856]
1000	3019 [679]

DT142



Speed rpm	Axial Load, F_a N [lb.]
50	17023 [3830]
100	13511 [3040]
250	9956 [2240]
500	7902 [1778]
1000	6271 [1411]

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.