

Micron TRUE Planetary® Gearheads

EverTRUE™ Continuous Duty

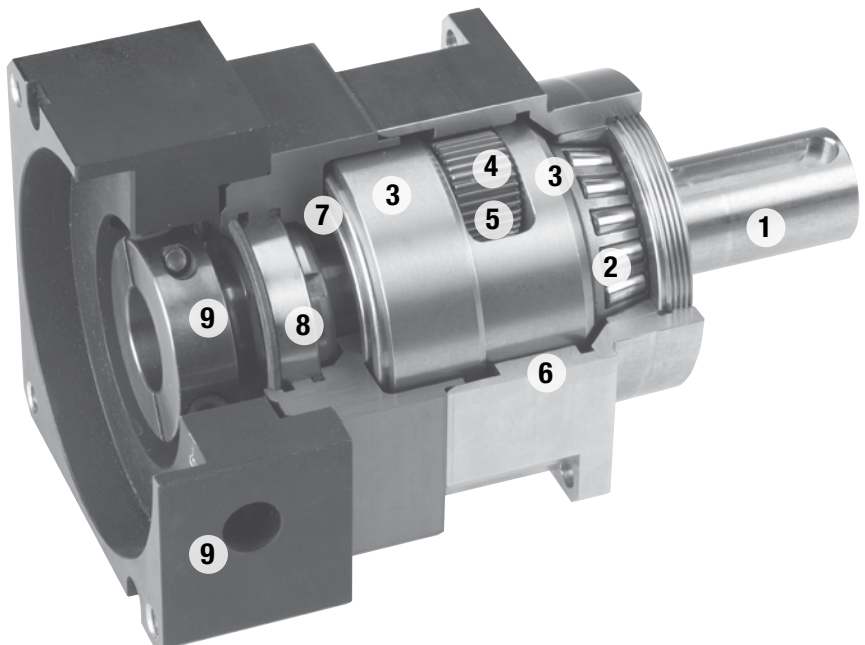
True Planetary Gearheads

Ready for Immediate Delivery

Precision	4 arc-minutes
Frame Sizes	100 mm, 140 mm and 180 mm
Torque Capacity	up to 1017 Nm
Ratio Availability	4:1 thru 100:1
Radial load capacity	up to 44600 N
Mounting System	RediMount™

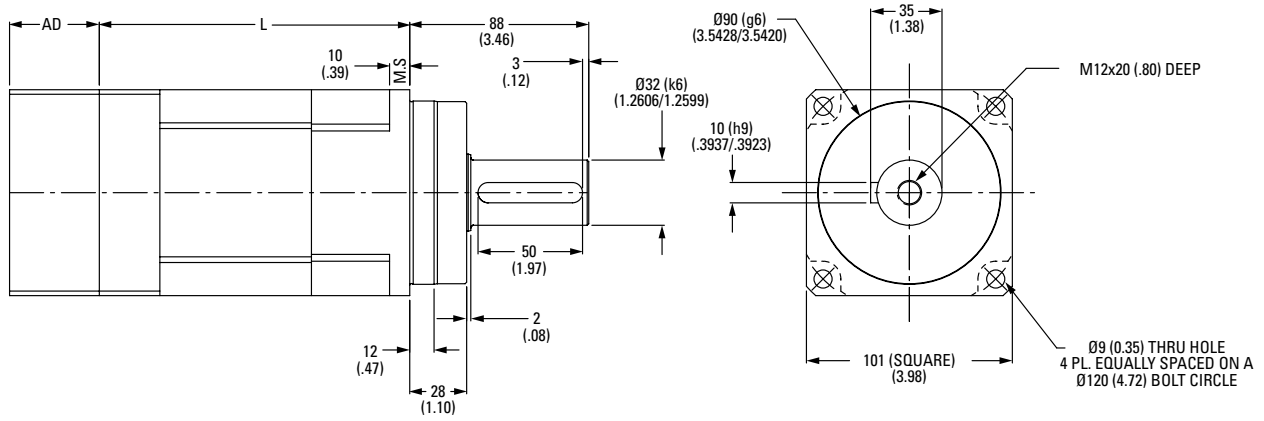
- ① **Single-piece output shaft with**
straddle mount bearing for
increased stiffness
- ② **High-capacity, tapered roller bearings**
- ③ **Double full complement needle**
bearings for continuous operation
- ④ **Gears lubricated with**
continuous duty grease
- ⑤ **True Planetary Gearing**
optimized for continuous duty
- ⑥ **Single-piece output**
housing with integral internal gear
- ⑦ **Angular contact bearing**
- ⑧ **Input bearing with thermal**
compensation feature
- ⑨ **RediMount system**
provides error-free installation

Stainless steel output housing



EverTRUE Size 10 Continuous Duty

True Planetary Gearheads



Ratio ¹	Stages	Dimension 'L' mm [in.]	Backlash [arc-min]	Weight kg [lb.]	Efficiency
4:1 to 10:1	1	78 [3.07]	4 max	6 [13]	95%
16:1 to 100:1	2	146 [5.75]	5 max	8 [18]	90%

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

Performance Specifications

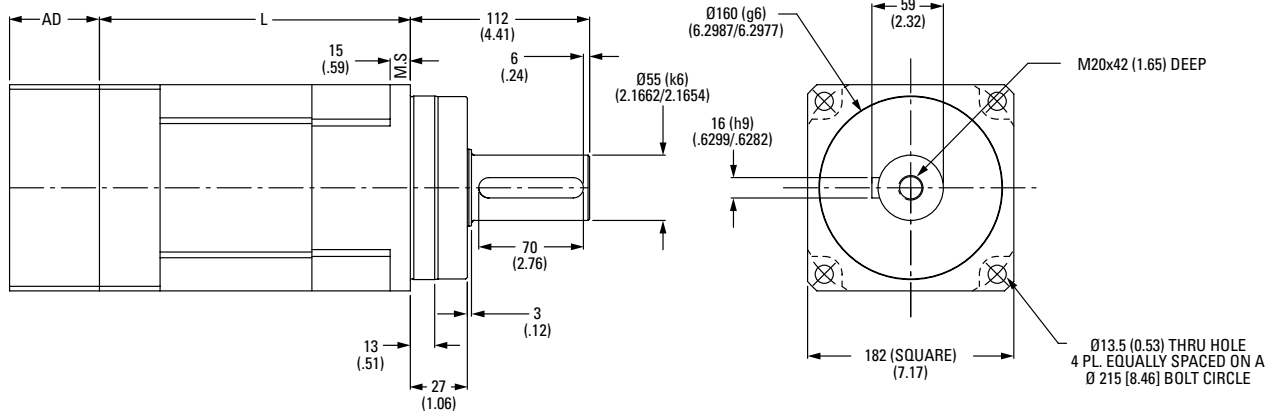
Part Number	Ratio ¹	Intermittent (T _{rc}) Nm [in.-lb.]	30000 Hour Life			T _{peak} Nm [in.-lb.]	J kg-cm ² [in.-lb.-sec ² ×10 ⁻⁴]	Torsional Stiffness Nm/arc-min [in.-lb./arc-min]
			T _r (1000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (5000 rpm) Nm [in.-lb.]			
ET010-004	4:1	171 [1514]	147 [1303]	106 [937]	91 [804]	463 [4093]	1,50 [13.3]	28,27 [250]
ET010-005	5:1	178 [1579]	144 [1272]	110 [977]	95 [838]	451 [3991]	1,29 [11.5]	25,08 [222]
ET010-007	7:1	190 [1684]	137 [1217]	118 [1042]	101 [893]	433 [3830]	0,92 [8.1]	23,21 [205]
ET010-010	10:1	106 [940]	77 [677]	66 [581]	61 [539]	411 [3640]	0,86 [7.6]	15,84 [140]
ET010-016	16:1	245 [2166]	164 [1450]	151 [1340]	138 [1218]	517 [4577]	1,05 [9.2]	30,03 [267]
ET010-020	20:1	249 [2205]	166 [1470]	154 [1364]	147 [1303]	524 [4637]	1,05 [9.2]	26,73 [237]
ET010-025	25:1	242 [2140]	161 [1421]	150 [1324]	14 [127]	506 [4477]	1,05 [9.2]	26,73 [237]
ET010-028	28:1	255 [2261]	169 [1499]	158 [1399]	152 [1345]	533 [4718]	0,89 [7.9]	23,21 [205]
ET010-035	35:1	248 [2191]	164 [1448]	153 [1355]	148 [1306]	514 [4549]	0,75 [6.7]	22,99 [204]
ET010-040	40:1	262 [2316]	173 [1528]	162 [1433]	156 [1383]	542 [4794]	0,75 [6.7]	30,14 [267]
ET010-050	50:1	253 [2243]	167 [1475]	157 [1387]	152 [1341]	521 [4615]	0,74 [6.6]	26,51 [235]
ET010-070	70:1	241 [2131]	158 [1396]	149 [1318]	144 [1277]	491 [4349]	0,74 [6.6]	23,21 [205]
ET010-100	100:1	144 [1277]	102 [902]	89 [790]	84 [741]	459 [4059]	0,74 [6.6]	18,92 [168]

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_{rc} = Rated output torque for intermittent operation at 3,000 RPM
 (20,000 hr life - for catalog comparison)

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).

EverTRUE Size 18 Continuous Duty

True Planetary Gearheads



Ratio ¹	Stages	Dimension 'L' mm [in.]	Backlash [arc-min]	Weight kg [lb.]	Efficiency
4:1 to 10:1	1	136 [5.35]	4 max	40 [88]	95%
16:1 to 100:1	2	241.3 [9.50]	5 max	45 [99]	90%

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

Performance Specifications

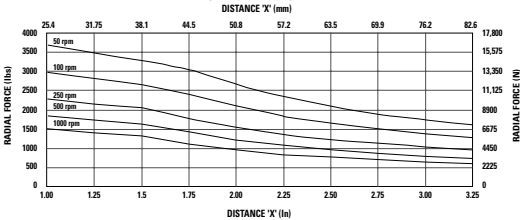
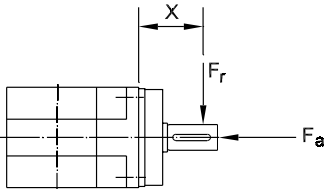
Part Number	Ratio ¹	Intermittent (Trc) Nm [in.-lb.]	30000 Hour Life			T _{peak} Nm [in.-lb.]	J kg-cm ² [in.-lb.-sec ² ×10 ⁻⁴]	Torsional Stiffness Nm/arc-min [in.-lb./arc-min]
			T _r (1000 rpm) Nm [in.-lb.]	T _r (3000 rpm) Nm [in.-lb.]	T _r (5000 rpm) Nm [in.-lb.]			
ET018-004	4:1	933 [8254]	802 [7099]	577 [5105]	495 [4380]	2442 [21609]	24,61 [218]	168,30 [1461]
ET018-005	5:1	972 [8602]	782 [6923]	601 [5321]	516 [4565]	2389 [21143]	19,00 [168]	165,00 [1461]
ET018-007	7:1	1037 [9174]	752 [6652]	641 [5675]	550 [4868]	2308 [20429]	13,87 [123]	147,40 [1306]
ET018-010	10:1	592 [5242]	430 [3806]	366 [3242]	338 [2990]	2210 [19561]	12,35 [109]	111,10 [984]
ET018-016	16:1	1335 [11816]	904 [8003]	826 [7309]	750 [6639]	2800 [24779]	15,30 [136]	177,10 [1569]
ET018-020	20:1	1363 [12061]	919 [8129]	843 [7460]	802 [7099]	2846 [25187]	14,82 [131]	171,60 [1520]
ET018-025	25:1	1325 [11722]	889 [7866]	819 [7251]	782 [6923]	2754 [24370]	14,82 [131]	144,10 [1277]
ET018-028	28:1	1403 [12414]	939 [8311]	868 [7679]	830 [7342]	2910 [25751]	12,83 [114]	151,80 [1345]
ET018-035	35:1	1361 [12047]	908 [8033]	842 [7452]	807 [7142]	2810 [24870]	10,83 [96]	136,40 [1209]
ET018-040	40:1	1443 [12767]	960 [8492]	892 [7897]	857 [7580]	2970 [26281]	10,83 [96]	177,10 [1569]
ET018-050	50:1	1398 [12371]	927 [8201]	865 [7652]	832 [7361]	2863 [25338]	10,36 [92]	171,60 [1520]
ET018-070	70:1	1332 [11789]	879 [7778]	824 [7292]	795 [7037]	2707 [23959]	10,36 [92]	151,80 [1345]
ET018-100	100:1	816 [7219]	578 [5117]	505 [4465]	472 [4180]	2537 [22454]	10,36 [92]	113,30 [1004]

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_{rc} = Rated output torque for intermittent operation at 3,000 RPM
 (20,000 hr life - for catalog comparison)

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).

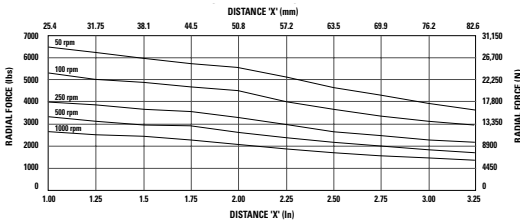
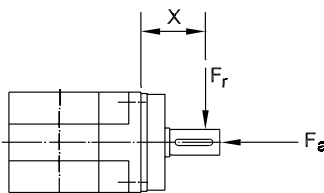
Radial and Axial Load Ratings

ET010



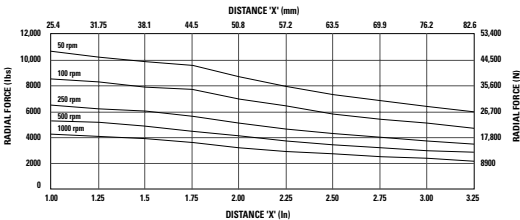
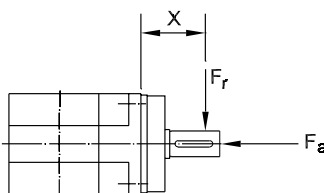
Speed rpm	Axial Load, F_a N [lb.]
50	13675 [3075]
100	11107 [2497]
250	8435 [1897]
500	6855 [1542]
1000	5568 [1252]

ET014



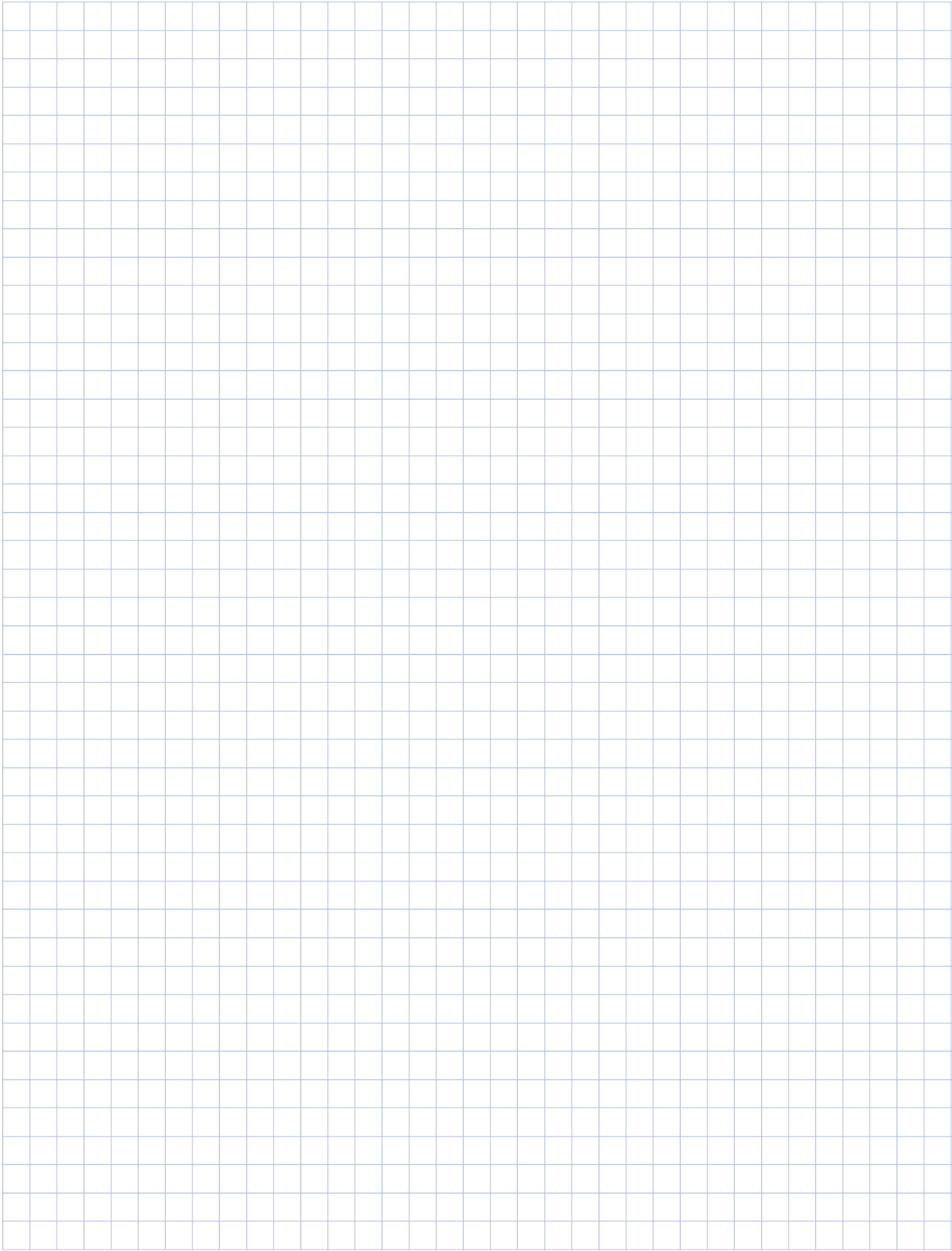
Speed rpm	Axial Load, F_a N [lb.]
50	25074 [5705]
100	20609 [4633]
250	15657 [3520]
500	12716 [2859]
1000	10329 [2322]

ET018



Speed rpm	Axial Load, F_a N [lb.]
50	34538 [7765]
100	27414 [6163]
250	20197 [4541]
500	16034 [3605]
1000	12726 [2861]

These graphs display the allowable radial load at a given distance (X) from the mounting surface based on an L₁₀ life of 10,000 hours for the mean output speed n_{mout}, as described on page 9.



Gearhead Application Analysis Form

General Information

Customer Name: _____ Fax: _____ Order Date: _____

Buyer Contact: _____ Phone: _____ Required Date: _____

Technical Contact: _____

Bill to Address: _____ Town/County: _____ State/Zip: _____

Ship to Address: _____ Town/County: _____ State/Zip: _____

E-mail: _____ Website: _____

Motor Information

Motor Manufacturer: _____ Motor Model #: _____

Continuous Torque (Nm) _____ Peak Torque (Nm) _____

Maximum Speed (rpm) _____

Application Information

Brief description of your application: _____

Acceleration time (sec) _____ Acceleration torque (Nm) _____ Max speed (rpm) _____

Dwell time (sec) _____ Dwell torque (Nm) _____ Dwell speed (rpm) _____

Deceleration time (sec) _____ Deceleration torque (Nm) _____ Min speed (rpm) _____

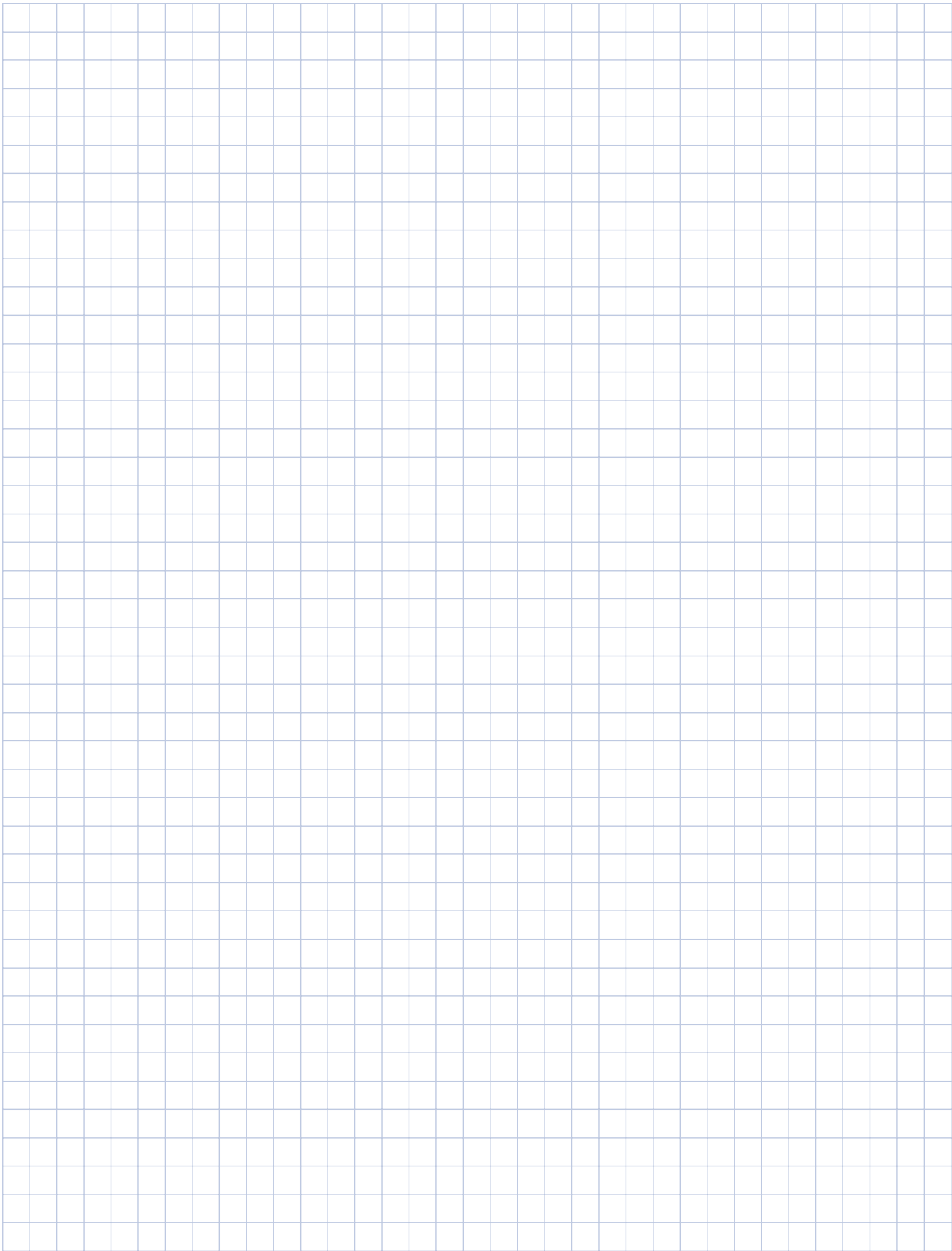
Radial Load (N) _____ Axial Load (N) _____ Target inertia match _____

External load inertia (Nm-sec²) _____ Maximum speed of motor (rpm) _____

Ordering Information

Part Number	Quantity	Price	Delivery
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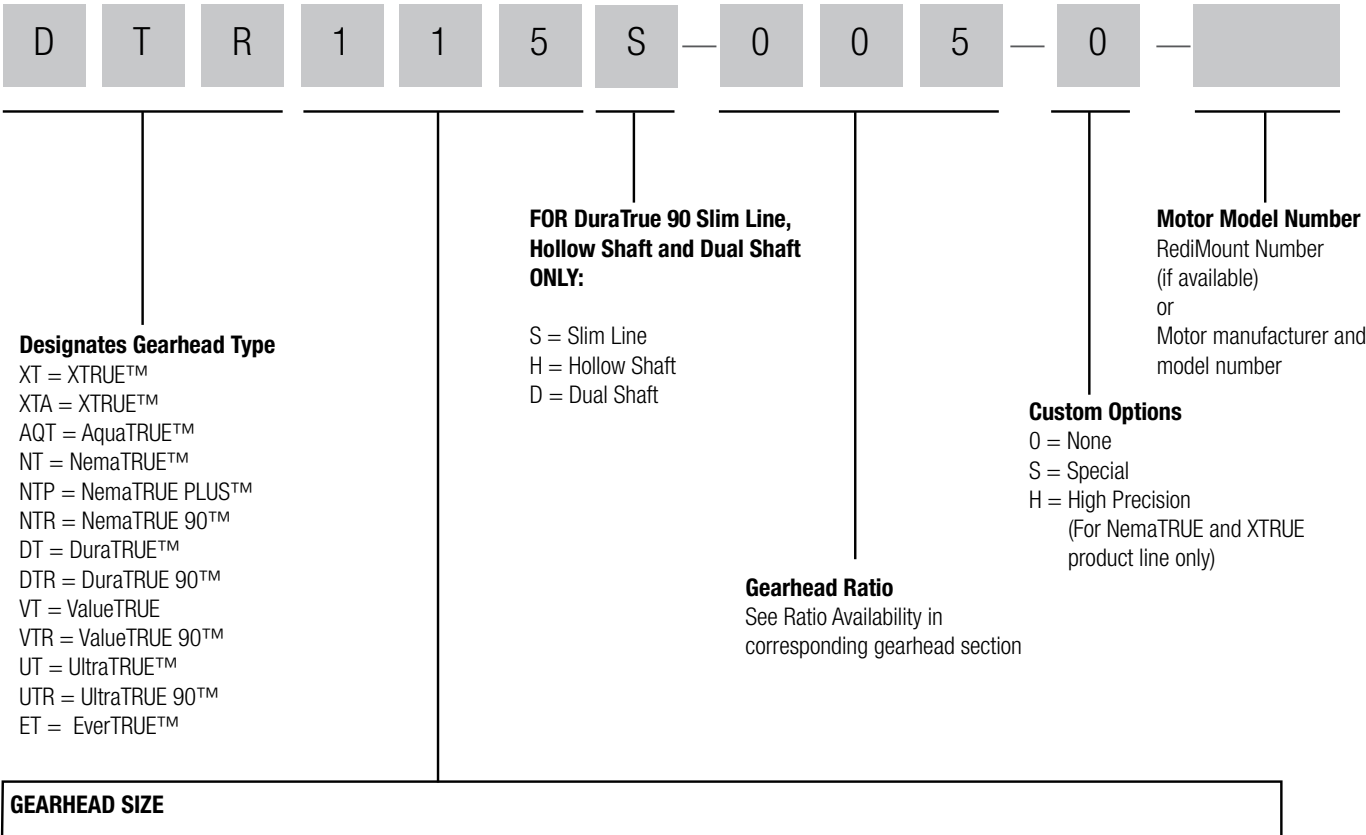
_____	_____	_____	_____
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Micron TRUE Planetary® Gearheads

Gearhead Ordering Information

Visit www.Micronmotioneering.com to get your complete RediMount part number using your motor manufacturer and model number information.



XTRUE XT AquaTRUE	NemaTRUE NemaTRUE PLUS NemaTRUE 90	DuraTRUE DuraTRUE 90 DuraTRUE (Hollow Shaft) DuraTRUE (Dual Shaft)	UltraTRUE UltraTRUE 90	EverTRUE	ValueTRUE ValueTRUE 90
040 = 40 mm	17 = Size 17	060 = Size 60	006 = Size 60	010 = Size 10	006 = Size 60
060 = 60 mm	23 = Size 23	090 = Size 90	075 = Size 75	014 = Size 14	075 = Size 75
080 = 80 mm	34 = Size 34	115 = Size 115	090 = Size 90	018 = Size 18	090 = Size 90
120 = 120 mm	42 = Size 42	142 = Size 142	010 = Size 10		010 = Size 10
160 = 160 mm	60 = Size 60		115 = Size 115		115 = Size 115
	90 = Size 90		014 = Size 14		014 = Size 14
XTRUE XTA	115 = Size 115		018 = Size 18		018 = Size 18
050 = 50 mm			022 = Size 22 (UltraTRUE only)		022 = Size 22
070 = 70 mm					
090 = 90 mm					
120 = 120 mm					

Can't find what you need in this catalog?

Micron offers many different customization options to allow customers to meet the unique challenges of their applications.

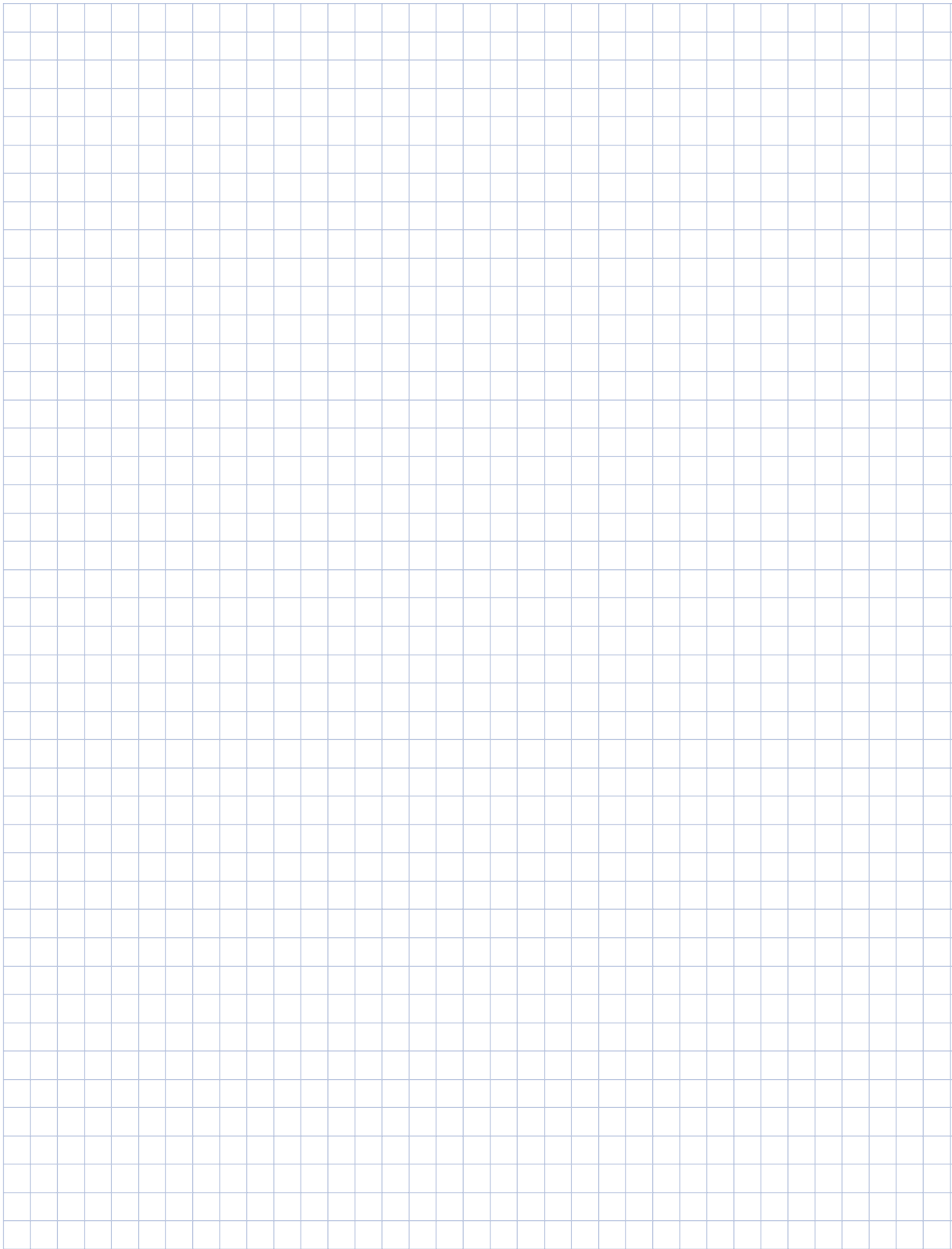
Simple modifications that usually have little or no impact to price and lead time

- Output shaft modifications (shorter length or smaller diameter)
- Output shaft modifications (longer length or larger diameter would be product dependent)
- Custom output shaft designs (spline shafts, tapped holes)
- Higher precision options
- New ratio combinations (three stage designs, new ratios)
- Custom greases (food grade, low temperature, vacuum prep)
- Stainless steel, nickel plating or paint options

Other modifications that may require volume or longer lead time

- Envelope-size reductions (shorter length or width)
- Machined and mounted output gears
- Heavy shock and vibration requirements
- White paper, ground-up designs





Premier Industrial Company Leading Brands

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