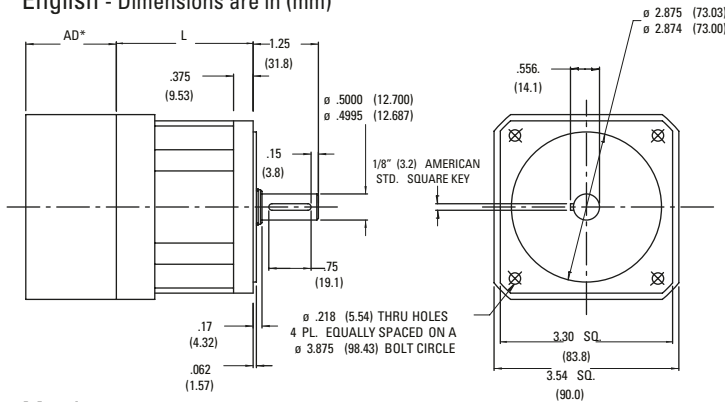


# NemaTRUE™ Size 34/90

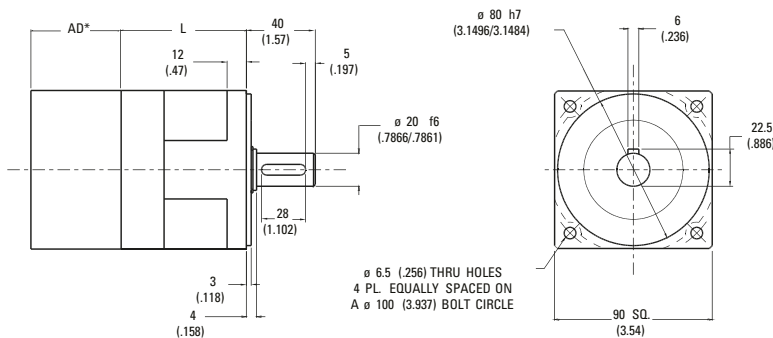
## True Planetary™ Gearheads



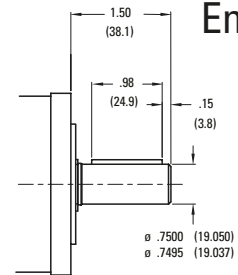
English - Dimensions are in (mm)



Metric - Dimensions are mm (in)



English



NemaTRUE PLUS\* (NTP)  
HeavyDuty Output Shaft

Ratio <sup>1</sup>	NT34	NT90	Backlash		Weight lb [kg]	Efficiency
	Dimension 'L' in [mm]	Dimension 'L' in [mm]	Precision	High Precision		
3:1 to 10:1	2.68 [68,0]	2.63 [66,8]	13 max	8 max	4.2 [1,9]	93%
15:1 to 100:1	3.53 [89,6]	3.53 [89,7]	15 max	9 max	5.6 [2,5]	88%

AD\*\* = Adapter length  
Adapter length will vary depending on motor.  
Efficiency is calculated at 100% of the rated torque.

## Performance Specifications

Part Number		Ratio <sup>1</sup>	20000 Hour Life				T <sub>peak</sub> in-lb [Nm]	J in-lb-sec <sup>2</sup> x10 <sup>-4</sup> [kg-cm <sup>2</sup> ]	Torsional Stiffness	
English	Metric		T <sub>r</sub> (1000 rpm) in-lb [Nm]	T <sub>r</sub> (2000 rpm) in-lb [Nm]	T <sub>r</sub> (3000 rpm) in-lb [Nm]	T <sub>r</sub> (4000 rpm) in-lb [Nm]			in-lb/arc-min [Nm/arc-min]	
			NT	NTP						
NT34-003	NT90-003	3:1	360 [40,7]	320 [36,2]	295 [33,3]	270 [30,5]	510 [57,6]	3.9 [0,44]	16.8 [1,9]	48 [5,4]
NT34-004	NT90-004	4:1	515 [58,2]	425 [48,0]	380 [42,9]	350 [39,6]	700 [79,1]	1.20 [0,140]	16.8 [1,9]	48 [5,4]
NT34-005	NT90-005	5:1	490 [55,4]	400 [45,2]	355 [40,1]	325 [36,7]	700 [79,1]	1.20 [0,140]	16.8 [1,9]	48 [5,4]
NT34-007	NT90-007	7:1	470 [53,1]	380 [42,9]	335 [37,9]	305 [34,5]	700 [79,1]	1.20 [0,140]	16.8 [1,9]	48 [5,4]
NT34-010	NT90-010	10:1	238 [26,9]	212 [24,0]	200 [22,6]	192 [21,7]	700 [79,1]	0.66 [0,075]	16.8 [1,9]	48 [5,4]
NT34-015	NT90-015	15:1	454 [51,3]	416 [47,0]	391 [44,2]	373 [42,1]	850 [96,0]	1.20 [0,140]	16.8 [1,9]	48 [5,4]
NT34-020	NT90-020	20:1	677 [76,5]	620 [70,1]	587 [66,3]	551 [62,3]	850 [96,1]	1.20 [0,140]	16.8 [1,9]	48 [5,4]
NT34-025	NT90-025	25:1	652 [73,7]	595 [67,2]	562 [63,5]	526 [59,4]	850 [96,0]	1.20 [0,140]	16.8 [1,9]	48 [5,4]
NT34-030	NT90-030	30:1	500 [56,5]	454 [51,3]	432 [48,8]	416 [47,0]	850 [96,0]	0.66 [0,075]	16.8 [1,9]	48 [5,4]
NT34-040	NT90-040	40:1	770 [87,0]	702 [79,3]	668 [75,5]	620 [70,1]	850 [96,1]	0.65 [0,074]	16.8 [1,9]	48 [5,4]
NT34-050	NT90-050	50:1	720 [81,4]	652 [73,7]	618 [69,8]	595 [67,2]	850 [96,0]	0.65 [0,074]	16.8 [1,9]	48 [5,4]
NT34-070	NT90-070	70:1	770 [87,0]	702 [79,3]	668 [75,5]	620 [70,1]	850 [96,1]	0.65 [0,074]	16.8 [1,9]	48 [5,4]
NT34-100	NT90-100	100:1	325 [36,7]	295 [33,3]	280 [31,6]	270 [30,5]	700 [79,1]	0.65 [0,074]	16.8 [1,9]	48 [5,4]

<sup>1</sup> Ratios are exact, higher ratios and other custom options are also available, consult factory.  
T<sub>r</sub> = Rated output torque at rated speed for specific hours of life.

T<sub>peak</sub> = Allowable momentary peak torque for emergency stop or heavy shock loading.  
J = Mass moment of inertia reflected to the input shaft (including pinion assembly).