

TORSEN 012000 University Special – General Facts

GENERAL INFORMATION		
Bias Ratio:	3.0:1	
Lubrication:	80W-90 GL5	
Unit Cost ¹ :	\$ 495	
Gearing Cost ² :	\$ 110	
	Inch	Metric
Weight:	7 lbs. 2 ozs.	3.23 kg
Bolt Torque:	35 ft/lbs.	47.5 N/m
SIDE GEAR INFORMATION		
Number of Teeth:	28	
Diametral Pitch:	32	
Space Width Angle	68°	
Space Width Effective Minimum:	0.0510	1.295
Space Width Actual:	0.0524 – 0.0539	1.331 – 1.369
Pitch Diameter:	0.875	22.225
Major Diameter:	0.917 – 0.921	23.292 – 23.393
Minor Diameter:	0.850 – 0.854	21.590 – 21.692
Measuring Pin Diameter:	0.063	1.600
Measurement between 2 Pins:	0.7754 – 0.7777	19.695 – 19.754
Fillet Radius:	0.012 MAX	0.305 MAX
LARGE SPLINE INFORMATION		
Number of Teeth:	46	
Pressure Angle	30°	
Module:	N/A	0.7938
Base Diameter:	1.2449	31.6208
Pitch Diameter:	1.4375	36.5125
Major Diameter:	1.469 – 1.478	37.31 – 37.55
Circular Space Width Actual:	0.044 – 0.045	1.105 – 1.143
Measuring Pin Diameter:	0.055	1.400
Measurement between 2 Pins:	1.3460 – 1.3488	34.189 – 34.259
Fillet Radius:	0.0197 MAX	0.50 MAX

¹ Unit cost is based upon 1,000 units a year shipped in quarterly installments. Price includes amortization of all tooling.

² Gearing only cost includes the side gears (2) and the element gears (6) and is based upon the same criteria as stated in Footnote 1.

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Figure 1 - Torsen University Special (012000)

THRUST WASHER REPLACEMENT PARTS:

Washer Number 1: DU4 coated washer not commercially available. Make from either INA or FAG thrust washer part number LS3047. One required for location one.		
	Inch	Metric
Nominal Inside Diameter:	1.2	30
Nominal Outside Diameter:	1.9	47
Nominal Thickness:	0.12	3
Rework Outside Diameter:	1.7	43
Rework Thickness:	0.058	1.47
Washer Number 2: Purchase either an INA or FAG thrust washer part number LS3047. Four washers required for location two.		
Nominal Inside Diameter:	1.2	30
Nominal Outside Diameter:	1.9	47
Nominal Thickness:	0.12	3
Rework Outside Diameter:	1.7	43
Rework Thickness:	0.076	1.94
Washer Number 3: FNC washer not commercially available. Make from either INA or FAG thrust washer part number LS3047. One washer required for location three.		
Nominal Inside Diameter:	1.2	30
Nominal Outside Diameter:	1.9	47
Nominal Thickness:	0.12	3
Rework Outside Diameter:	1.7	43
Rework Thickness:	0.078	1.98
Washer Number 4: Bronze washer not commercially available. Make from hardened bronze or use INA or FAG thrust washer, part number LS3047. One washer required for location four.		
Nominal Inside Diameter:	1.2	30
Nominal Outside Diameter:	1.9	47
Nominal Thickness:	0.12	3
Rework Outside Diameter:	1.7	43
Rework Thickness:	0.058	1.47

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WASHER LOCATIONS:

