

PERFORMANCE DATA

CONIC 1:1 Shaft Mount Harmonic Differentials

Size	Ratic	Torque Rating			Max. Output Torque	Max. Input Speed	Max. Backlash standard	Max. Backlash precision	Max. Run-out standard	Max. Run-out precision	Trim Ratio
		Input Speed**									
		3500	1750	500	(lb-in)	(rpm)	(arc min)	(arc min)	(in)	(in)	
		(lb-in)	(lb-in)	(lb-in)	(lb-in)	(rpm)	(arc min)	(arc min)	(in)	(in)	
20	80	195	246	250	250		± 6	± 3	0.002	0.0008	81:1
	100	195	246	300	300	3600	± 6	± 3	0.002	0.0008	101:1
	120	195	246	350	350		± 6	± 3	0.002	0.0008	121:1
	160	195	246	390	390		± 6	± 3	0.002	0.0008	161:1
25	80	320*	406	425	425		± 6	± 3	0.002	0.0008	81:1
	100	320*	406	600	600	3600	± 6	± 3	0.002	0.0008	101:1
	120	320*	406	700	700		± 6	± 3	0.002	0.0008	121:1
	160	320*	406	780	780		± 6	± 3	0.002	0.0008	161:1
32	80	640*	810	950	950		± 6	± 3	0.002	0.0008	81:1
	100	640*	810	1200	1200	3600	± 6	± 3	0.002	0.0008	101:1
	120	640	810	1230	1400		± 6	± 3	0.002	0.0008	121:1
	160	640*	810	1230	1550		± 6	± 3	0.002	0.0008	161:1
40	80	1350*	1705	1700	1700		± 6	± 3	0.002	0.0008	81:1
	100	1350*	1705	2400	2400	3600	± 6	± 3	0.002	0.0008	101:1
	120	1350*	1705	2585	2700		± 6	± 3	0.002	0.0008	121:1
	160	1350*	1705	2585*	3100		± 6	± 3	0.002	0.0008	161:1

Higher torque units are available upon request.

* Thermal limited - 50% duty cycle with on time not exceeding 15 minutes.

** Trim shaft rpm relative to housing rpm

*** Precision run-out specifications may require dimensional changes. Consult with Conic Systems for more information.

CORRECTION RATIOS

The standard phase adjustment ratio is 81:1. Additional ratios of 101:1, 121:1, and 161:1 are also available. The 81:1 phase ratio is accomplished with an 80:1 harmonic drive. The harmonic drive ratio, i.e. 80:1, is used for part numbering and ordering.

PHASE CORRECTIONS

Turning the trim shaft in the same direction as the input will cause the output to advance. Turning the trim shaft in the opposite direction as the input will cause the output to retard. Holding the trim shaft stationary results in no output adjustment

MOUNTING

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