



RATIOS

1-Stage	2-Stage	3-Stage	4-Stage	5-Stage
4:1	14:1	51:1	189:1	531:1
5:1	16:1	59:1	218:1	556:1
	18:1	68:1	252:1	596:1
	19:1	71:1	264:1	626:1
	22:1	79:1	292:1	642:1
	25:1	93:1	305:1	672:1
	27:1	95:1	337:1	721:1
	29:1	100:1	344:1	724:1
	35:1	115:1	353:1	777:1
		124:1	369:1	837:1
		130:1	397:1	875:1
		139:1	408:1	939:1
		150:1	426:1	1012:1
		169:1	459:1	1140:1
		181:1	480:1	1223:1
		195:1	493:1	1318:1
		236:1	516:1	1594:1
				3329:1
				10757:1

Actual ratios are rounded to the nearest integer

PARAMETER	1-STAGE	2-STAGE	3-STAGE	4-STAGE
Perm. Output Torque oz-in	2 832.238	8496.716	16993.431	16993.431
Gearbox Efficiency, approx.	80%	75%	70%	65%
Max. Backlash in °Deg	.85	.55	.60	.65
Operating temperature °C	-15 to +65	-15 to +65	-15 to +65	-15 to +65
Output side with ball bearings (2RS)	yes	yes	yes	yes
Max. load, radial oz	1440	2160	3600	4680
Max. load, axial oz	288	432	720	1008
Gearbox length p	3.067 ±.02	3.921 ±.02	4.776 ±.02	5.630 ±.02
Gearbox length k (motor size 56 & 63)	4.098 ±.024	4.953 ±.024	5.807 ±.024	6.661 ±.024
Gearbox length q	4.425 ±.02	5.280 ±.02	6.134 ±.02	6.988 ±.02
Ø x Total length (p + length from bearing flange)	3.189 x 4.996	3.189 x 5.850	3.189 x 6.705	3.189 x 7.559
Weight lbs	3.97	5.51	7.05	8.60

Consult Factory for 5-Stage Specifications