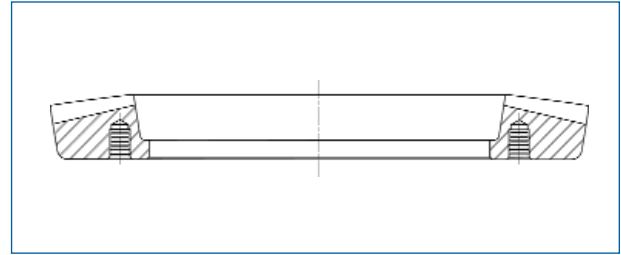


ARROW-STAN® Standard (Non-Stock) Ratios



Arrow-Stan gear style used on ring gears.

The combinations listed in the following pages represent a line of Spiral Bevel Gears in sizes larger than our general selection of stock gears. We are tooled to produce these gear combinations without undue delays other than the normal time needed for the machining processes.

They are listed in groups according to the Pitch Diameter of the **gear**, with a suitable selection of ratios to cover a wide range of applications. (Please contact our Design Engineering Department for other sizes and ratios.)

All ring gears are carburized and **die quenched** on the most modern type of equipment available, and kept to the closest possible limits of flatness and roundness.

As in our stock gear line, capacities are rated in terms of torque. The allowable torque, as shown on page 4, must be calculated before selecting gear size.

Ring gears should be ordered as shown in the following tables to take advantage of extensive tooling available. Pinion members can be designed to suit your machine or housing. Pinions of ratios higher than 3:1 are usually designed integral with the shaft because of fastening problems.

14 INCH PITCH DIAMETER OF GEAR

SIZES				SPECIFICATION						DESIGN				CAPACITY	
O.D.		Pitch Dia.		Ratio	Combi- nation	Diam. Pitch	Face Width	Mounting Distance		Bore	Bolt Circle Dia.	No. of Bolts	Bolt Size	Torque Pinion <i>Lb. Inches</i>	Torque Gear <i>Lb. Inches</i>
Gear	Pinion	Gear	Pinion					Gear	Pinion (Min.)						
14.027	5.973	14	5.50	2.55	22-56	4.00	2¼	3½	7¾	9.250	10.500	12	½-20	16950	43145
14.030	5.220	14	4.75	2.95	20-59	4.21	2¼	3¼	7¾	9.250	10.500	12	½-20	14183	41840
14.019	3.993	14	3.55	3.94	17-67	4.79	2¼	2¾	7½	9.250	10.500	12	½-20	9839	38777
13.990	3.517	14	3.09	4.53	15-68	4.86	2¼	2⅝	7½	9.250	10.500	12	½-20	8367	37930

16 INCH PITCH DIAMETER OF GEAR

16.040	6.837	16	6.28	2.55	22-56	3.50	2½	4	8½	10.750	12.000	12	½-20	23790	60556
15.950	4.599	16	4.06	3.94	17-67	4.19	2½	3	8½	10.750	12.000	12	½-20	13810	54428
16.019	3.720	16	3.24	4.93	15-74	4.63	2½	2⅞	8½	10.750	12.000	12	½-20	10380	51208