SUPERIOR GEARBOX COMPANY

R800 SERIES RATINGS CHART

Bevel Gear Drive — **Aluminum & Iron Housing**

	Ratio	Gear Design		Input RPM 100	540	1000
MITER REDUCER Increaser	1:1	22, 22 Forged Straight Bevel	Input HP	47.56	171.29	235.29
			Output Torque*	29975	19992	14829
			Input kW	35.47	127.73	175.46
			Output Torque**	3387	2259	1675
	1.18:1	28, 33 Cut Spiral Bevel	Input HP	36.62	133.71	184.98
			Output Torque*	27201	18392	13740
			Input kW	27.31	99.71	137.94
			Output Torque**	3073	2078	1552
	1.35:1	20, 27 Forged Straight Bevel	Input HP	26.27	102.47	146.32
			Output Torque*	22352	16145	12449
			Input kW	19.59	76.41	109.11
			Output Torque**	2525	1824	1407
	1.5:1	20, 30 Forged Straight Bevel	Input HP	19.51	77.85	113.27
			Output Torque*	18444	13629	10708
			Input kW	14.55	58.05	84.47
			Output Torque**	2084	1540	1210
	1.86:1	14, 26 Forged Straight Bevel	Input HP	20.45	82.74	121.42
			Output Torque*	23936	17934	14212
			Input kW	15.25	61.70	90.54
			Output Torque**	2704	2026	1606
	1:1.18	33, 28 Forged Straight Bevel	Input HP	42.26	147.16	198.34
			Output Torque*	22599	14573	10606
			Input kW	31.51	109.74	147.90
			Output Torque**	2553	1646	1198
	1:1.35	27, 20 Cut Spiral Bevel	Input HP	34.40	123.09	168.50
			Output Torque*	16060	10642	7866
			Input kW	25.65	91.79	125.65
			Output Torque**	1814	1202	889
	1:1.5	30, 20 Cut Spiral Bevel	Input HP	28.13	100.66	137.80
			Output Torque*	11819	7832	5790
			Input kW	20.98	75.06	102.76
			Output Torque**	1335	885	645
	1:1.86	26, 14 Forged Straight Bevel	Input HP	35.65	121.61	162.59
			Output Torque*	12098	7643	5518
			Input kW	26.58	90.69	121.25
			Output Torque**	1367	863	623

***Torque measured in inch-lbs** — ****Torque measured in N-m**

All ratings specified with the #1 shaft as the input.

LIMITATIONS ON HORSEPOWER AND TORQUE RATINGS: The horsepower and torque ratings given here are generalizations. Different conditions for various applications may result in higher or lower horsepower capacities. Under certain conditions the maximum indicated RPM may be exceeded. For these reasons the ratings cannot be guaranteed for any application. Prototype testing should be conducted for each application before production.