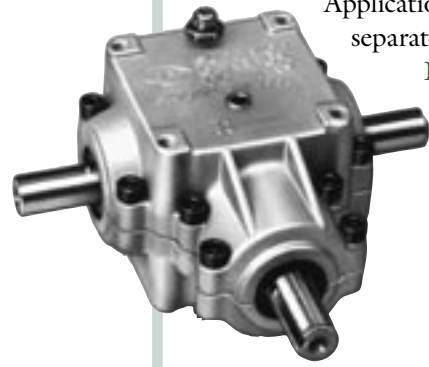




100 Series



Applications include turf equipment, mowers, sprayers, grain augers and separators, road and highway equipment.

Features:

- Two-piece aluminum housing for high strength, corrosion resistance and thermal capacity
- Precision machined for exact gear mesh and bearing preload
- Precision forged gears are offered in three ratios: 1:1, 1.1:1 and 1.43:1
- Tapered roller bearings provide increased load capacity and bearing life
- 1" shaft made of high strength steel is standard
- Serviced with 80W90 gear lubricant, run and leak tested before shipment
- The 100 Series weighs 7/10 lbs. including 6 oz of lubricant

Rating Chart

		Input RPM							
		Ratio ¹	Gear Design	100	540	1000	1750	2500	3000
Miter	1:1	21, 21 Forged Straight Bevel	Input HP	4.65	20.28	31.27	42.98	50.56	54.28
			Output Torque*	2931	2367	1971	1548	1275	1140
			Input kW	3.47	15.12	23.32	32.05	37.70	40.48
			Output Torque**	331	267	223	175	144	129
Reducers	1.1:1	30, 33 Forged Straight Bevel	Input HP	3.46	15.24	23.64	32.71	38.64	41.57
			Output Torque*	2399	1957	1639	1296	1072	961
			Input kW	2.58	11.36	17.63	24.39	28.81	31.00
			Output Torque**	271	221	185	146	121	109
Reducers	1.43:1	21, 30 Forged Straight Bevel	Input HP	2.25	10.21	16.21	23.02	27.67	30.02
			Output Torque*	2028	1704	1461	1186	998	902
			Input kW	1.68	7.61	12.09	17.17	20.63	22.39
			Output Torque**	229	193	165	134	113	102
Increases	1:1.43	33, 30 Forged Straight Bevel	Input HP	3.80	16.39	25.12	34.30	40.18	43.05
			Output Torque*	2177	1739	1439	1123	921	822
			Input kW	2.83	12.22	18.73	25.58	29.96	32.10
			Output Torque**	246	196	163	127	104	93
Increases	1:1.43	30, 21 Forged Straight Bevel	Input HP	3.15	13.46	20.45	27.67	32.22	34.42
			Output Torque*	1388	1099	901	697	568	506
			Input kW	2.35	10.04	15.25	20.63	24.03	25.67
			Output Torque**	157	124	102	79	64	57

¹ All ratings specified with the #1 shaft as the input
 *Torque measured in inch-lbs **Torque measured in N-m

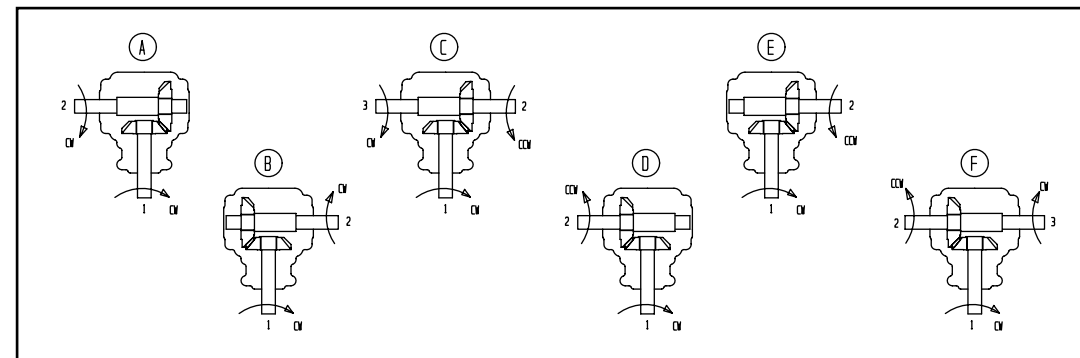
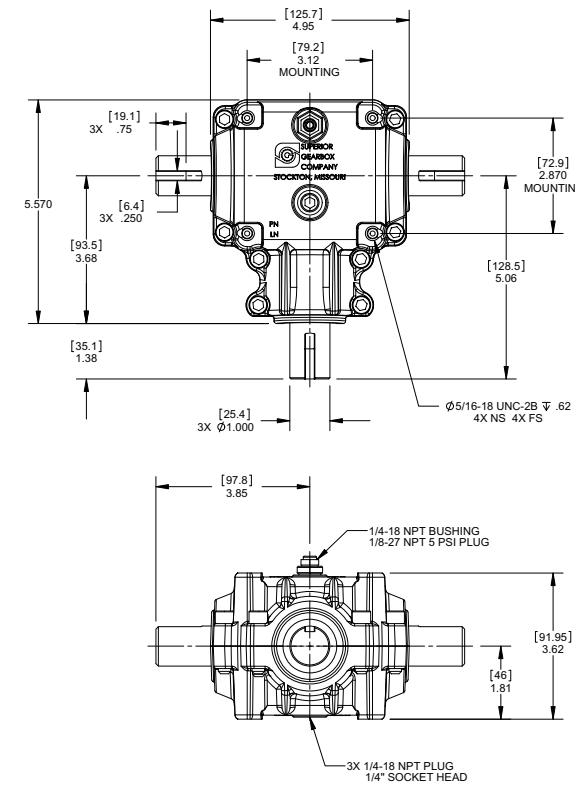
LIMITATIONS ON HORSEPOWER AND TORQUE RATINGS: The horsepower and torque ratings given here are generalizations. Different conditions for various applications may result in higher or lower horsepower capacities. Under certain conditions the maximum indicated rpm may be exceeded. For these reasons the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

Service Factors

Character of Shock Driven Machine	Character of Power Source Shock Load											
	Electric Motor Uniform				Multi-Cylinder Engine Light Shock				Single-Cylinder Engine Medium Shock			
	Duration of Service (Hours per Day)											
	.5	3	10	24	.5	3	10	24	.5	3	10	24
Uniform	0.60	0.80	1.00**	1.25	0.80	1.00	1.25	1.50	1.00	1.25	1.50	1.75
Moderate	0.80	1.00	1.25	1.50	1.00	1.25	1.50	1.75	1.25	1.50	1.75	2.00
Heavy	1.25	1.50	1.75	2.00	1.50	1.75	2.00	2.25	1.50	1.75	2.25	2.50

* Divide the horsepower rating by the service factor to obtain the design horsepower. ** AGMA Class 1 Service

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Contact Superior Gearbox for your special requirements.