

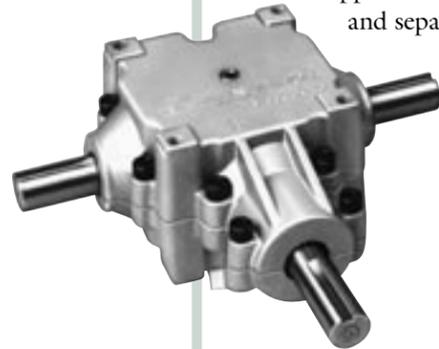


200 Series

Applications include mowers, sprayers, grain augers, elevators, grain dryers and separators, small rototillers, 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, 1.5:1 and 2:1
- 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 200 Series weighs 12/15 lbs. including 14 oz of lubricant



Rating Chart

		Input RPM						
		Ratio ¹	Gear Design	100	540	1000	1750	
Miter	1:1	19, 19	Forged Straight Bevel	Input HP	8.43	35.46	53.23	71.42
				Output Torque*	5313	4139	3355	2572
				Input kW	6.29	26.44	39.69	53.26
				Output Torque**	600	468	379	291
Miter	1:1	21, 21	Cut Spiral Bevel	Input HP	5.38	22.86	34.63	46.73
				Output Torque*	3391	2668	2183	1683
				Input kW	4.01	17.05	25.82	34.85
				Output Torque**	383	301	247	190
Reducers	1.5:1	16, 24	Forged Straight Bevel	Input HP	3.27	14.78	23.37	33.03
				Output Torque*	3091	2588	2209	1784
				Input kW	2.44	11.02	17.43	24.63
				Output Torque**	349	292	250	202
Reducers	2:1	16, 32	Forged Straight Bevel	Input HP	1.76	8.30	13.54	19.84
				Output Torque*	2218	1937	1707	1429
				Input kW	1.31	6.19	10.10	14.79
				Output Torque**	251	219	193	161
Increases	1:1.5	24, 16	Forged Straight Bevel	Input HP	4.80	20.14	30.25	40.46
				Output Torque*	2017	1567	1271	971
				Input kW	3.58	15.02	22.56	30.17
				Output Torque**	228	177	144	110

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

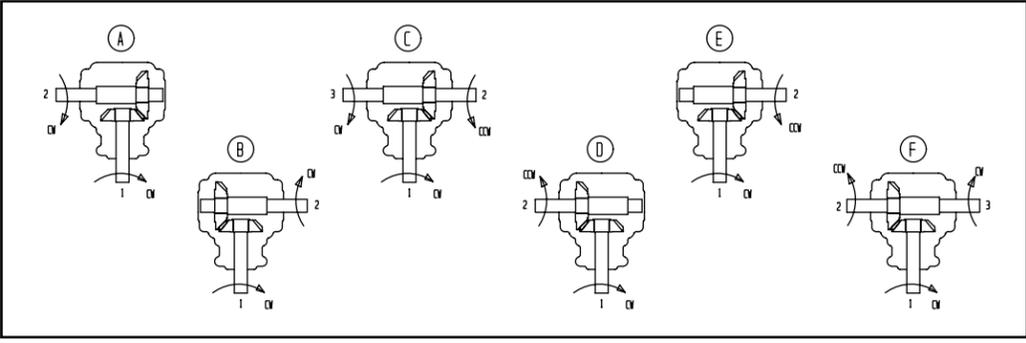
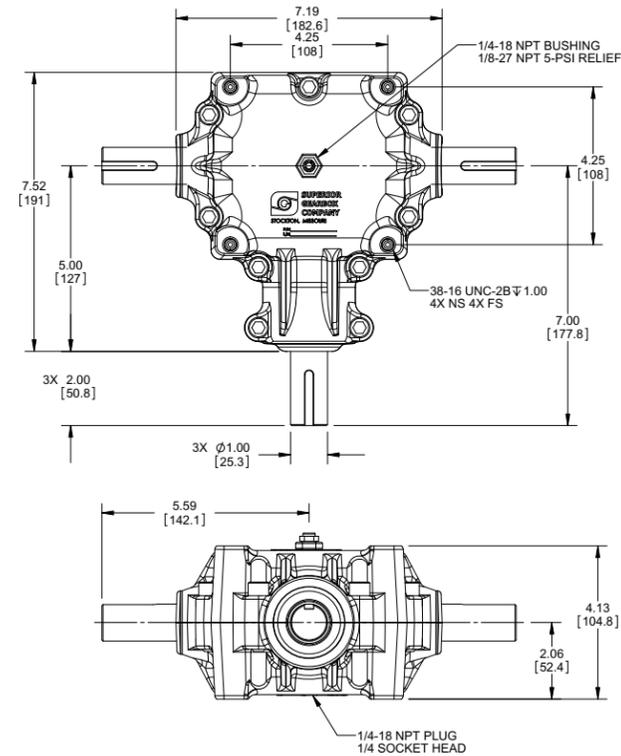
LIMITATIONS ON HORSEPOWER AND TORQUE RATINGS: The horsepower and torque ratings given here are generalizations. Different conditions for various applications may result in higher or lower horsepower capacities. Under certain conditions the maximum indicated rpm may be exceeded. For these reasons the 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.