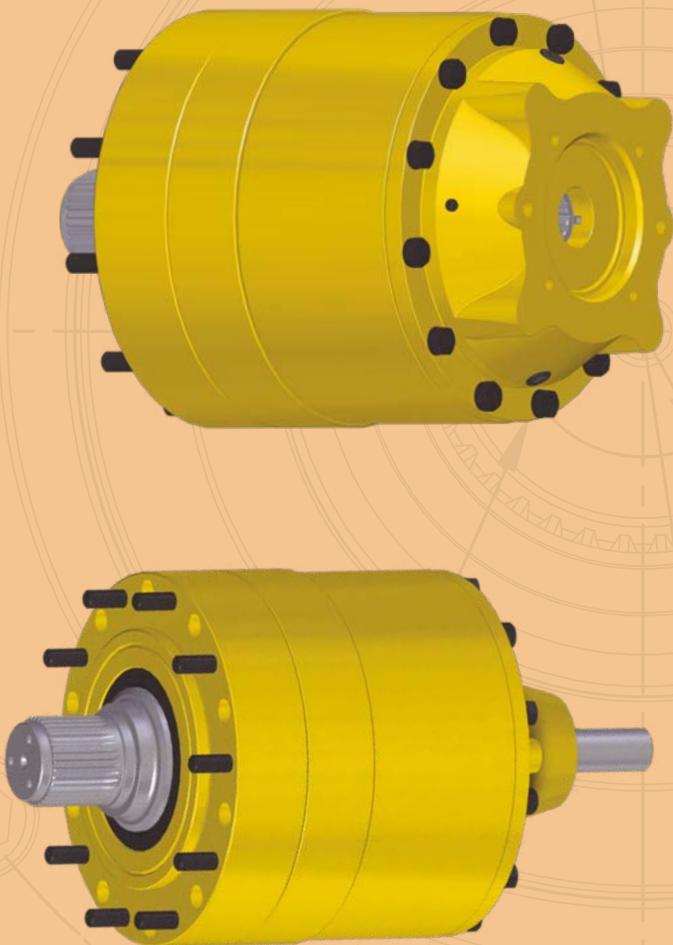


Power Wheel® Horizontal Feed Mixer Drives Model HM10, HM20, HM30



OIL SOLUTIONS

PO Box 38
Strathfieldsaye, VIC, 3551
1800 OIL SOL
1800 645 765

sales@oilsolutions.com.au

www.oilsolutions.com.au

"For All Your Hydraulic Needs"

AuburnGear
Engineered Drive Solutions

AuburnGear.com 260-925-3200
400 E. Auburn Drive, Auburn, IN 46706

Table of Contents

Introduction and Capabilities.....2-3
Model HM10 Horizontal Feed Mixer Drives.....4-5
Model HM20 and HM30 Horizontal Feed Mixer Drives.....6-7

Power Wheel® Feed Mixer Drives

Our feed mixer gearboxes are designed, sourced, manufactured, and assembled in our facility in North America, allowing us to ensure the use of the highest quality components and materials while providing an industry leading lead time.

Located in Auburn, Indiana, USA, Auburn Gear provides unmatched technical and after sale service and support.



Vertical Mixer Product Line
See auburngear.com



Horizontal Mixer Product Line

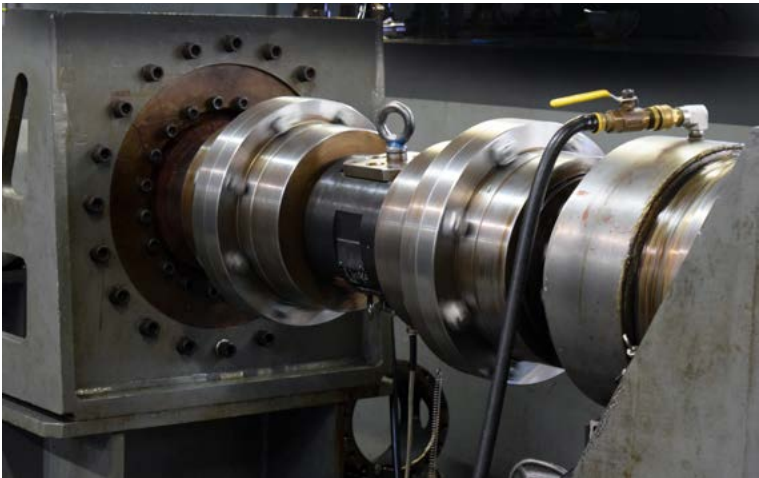
Designed to Perform

Auburn Gear has worked with numerous OEMs and end users to fully understand the performance and life expectancy requirements. The “voice of the customer” has led our design efforts. It has produced cooler operating oil temperatures, thus extending lubricant life. Our designs, when needed, provide integral oil channels, eliminating the need for external plumbing which is prone to leakage and damage. Lastly, our planetary designs provide for quiet, smooth, and efficient operation along with the ability to transfer more power in a given space.



Auburn Gear Testing

- Product validation using both in-house DVP&R and actual field acquired data
- Critical information for customer approvals
- Validation using high capacity on-site, in-house vertical and horizontal dyne capabilities
- Calculated Gear Life per AGMA standards based on duty cycle using current gearing/material options
- Physical confirmation testing using vertical & horizontal dynamometers
- In-house destructive and non-destructive analysis & material expertise



Power Wheel®

Model HM10 Horizontal Feed Mixer Drive

GENERAL SPECIFICATIONS

Model HM10

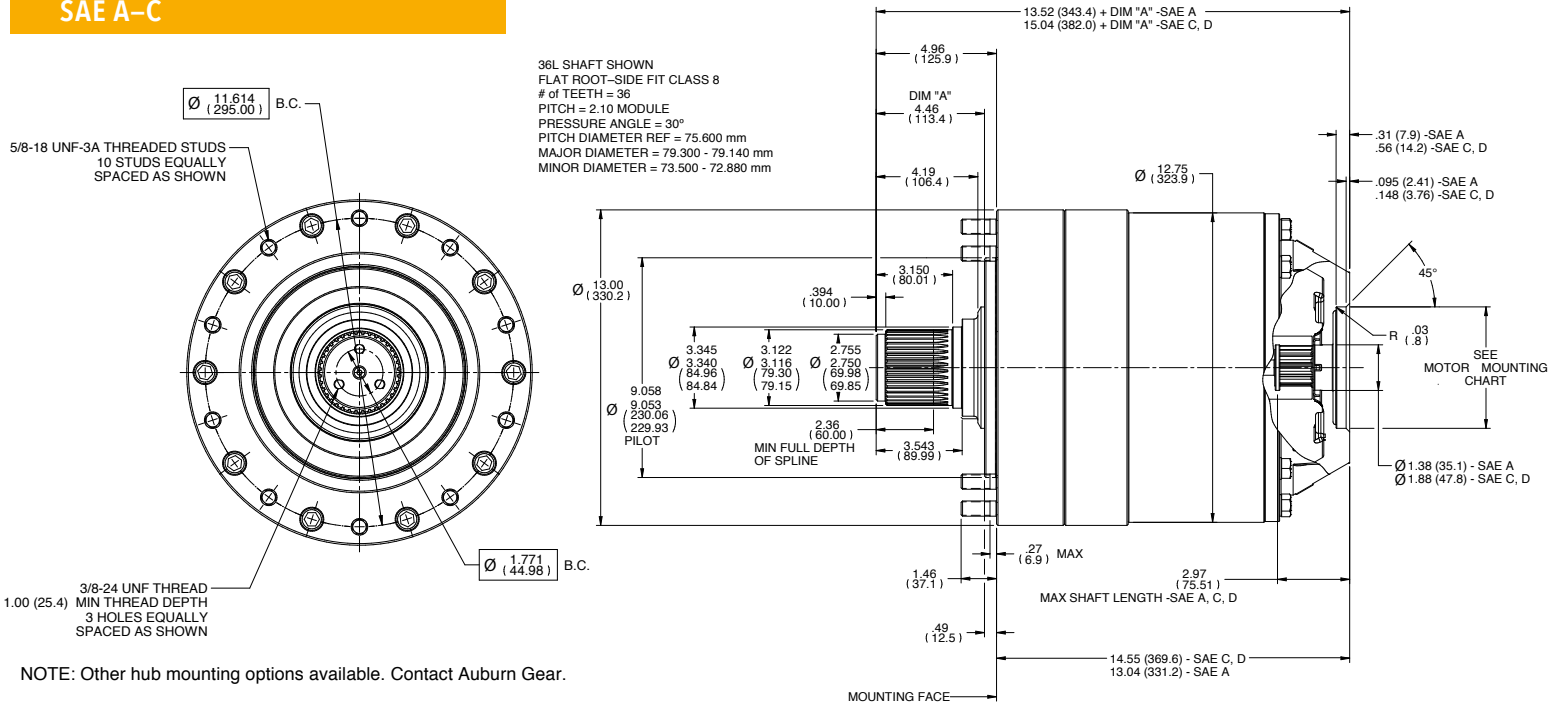
Max. Intermittent Output Torque ^{1,2}	200,000 lb-in (22,600 Nm)
Max. Input Speed ²	5,000 RPM
Approximate Weight	300 lb (135 kg)
Oil Capacity ³	96 oz (2,850 cc)
Max. Radial Load (@Pref. Load Center)	31,900 (14,500 kg)

¹ Depending on the duty cycle and the nature of the application, a normal continuous output torque of 1/3 to 1/2 of the maximum intermittent should yield satisfactory Power Wheel® life. Customer testing and application analysis is strongly recommended.

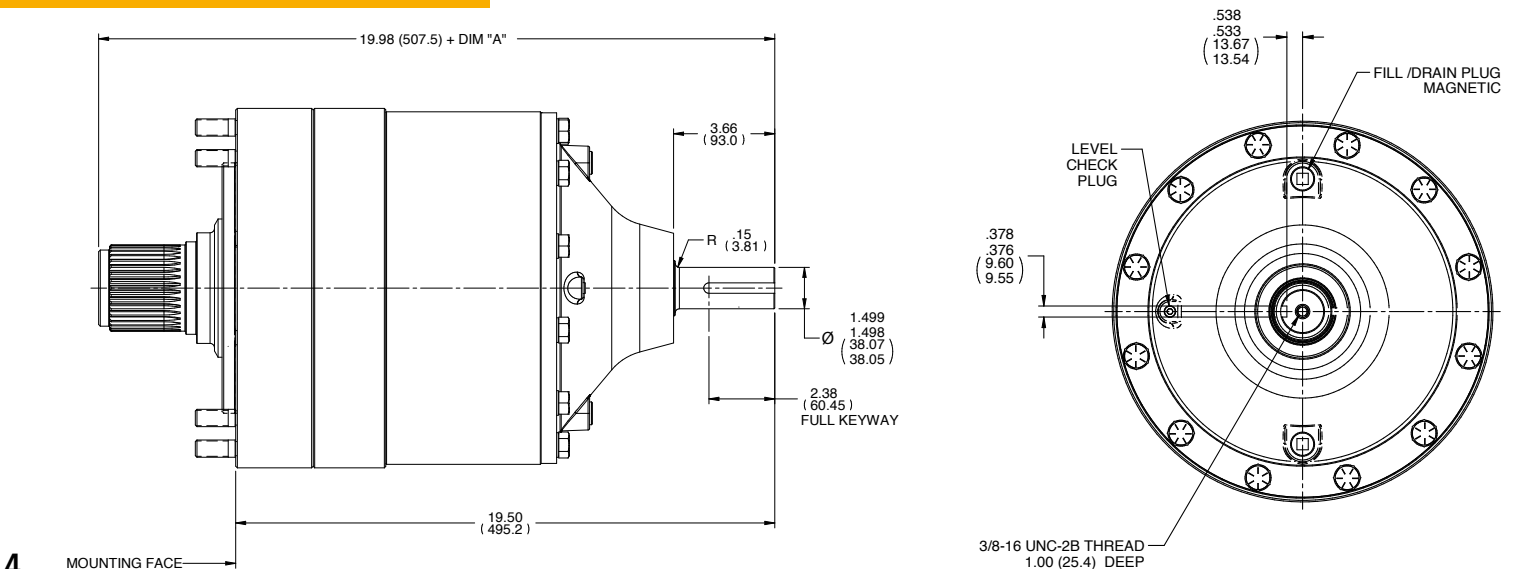
² If application exceeds published limit, contact Auburn Gear.

³ Oil capacity indicated is an approximation. Unit should be filled 1/2 full of recommended oil.

SAE A-C



K00 INPUT



FEATURE CHART: Model HM10 Horizontal Feed Mixer Drives

Options	Description	Make All Selections In One Column			Order Codes	Use Option Order Codes To Build Order Number					
BASE MODEL	Model HM10	*	*	*	200S3	200S3					
MOTOR PILOT/HUB	SAE A	*			A4						
	SAE C	*			C4						
INPUT SHAFT*	SAE D		*		D4						
	Input Shaft & Hub (as shown)			*	4	4					
INPUT SPLINE OR SHAFT*	14T 12/24	*			14						
	17T 12/24	*			17						
	13T 8/16		*		13						
	1-1/2" Male Keyed Input			*	K00		K00				
RATIO OPTIONS	17.79:1	*	*	*	17						
	20.93:1	*	*	*	20						
	27.18:1	*	*	*	27			27			
	37.82:1	*	*	*	37						
	45.58:1	*	*	*	45						
OUTPUT SHAFTS**	52.35:1	*	*	*	52						
	20T 6/12	*	*	*	20						
	23T 8/16	*	*	*	23						
	36T 2.10 Module 3-3/4" Keyed	*	*	*	36L K2				36L		
SPECIAL FEATURES	Multi-Lip Cartridge Seal	*	*	*	T					T	
Example of complete order code:						200S3	4	K00	45	36L	T

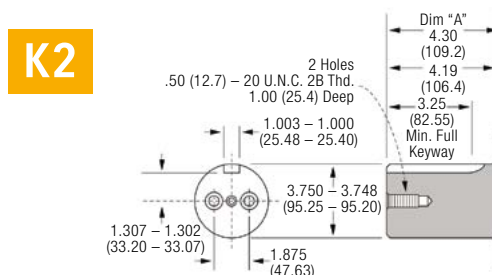
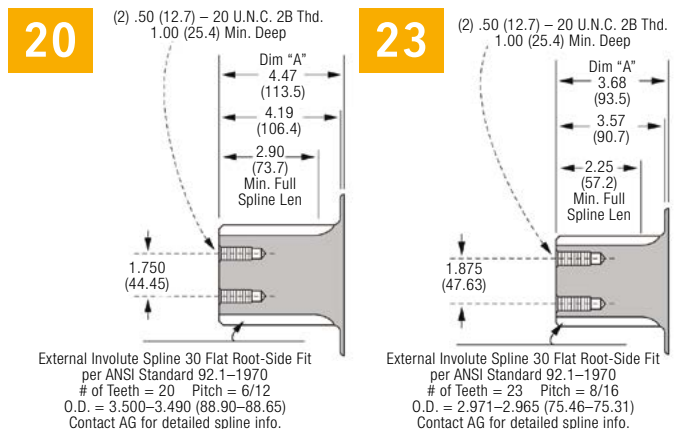
*Bearing Chart currently unavailable.
Contact Auburn Gear for more information.*

*Other input shaft options available. Contact Auburn Gear.
**For other shaft or flanged outputs. Contact Auburn Gear.

MOTOR MOUNTING CHART

SAE	# of Tapped Holes, Thread Size, and Bolt Circle	Pilot Diameter
A2	(2) 1/2"-13 UNC-2B on 4.187" (106.35mm) B.C.	3.251"-3.256" (82.5mm-82.70mm)
C	(4) 1/2"-13 UNC-2B on 6.375" (161.93mm) B.C. & (2) 5/8"-11 UNC-2B on 7.125" (180.97mm) B.C.	5.001"-5.006" (127.03mm-127.15mm)
D	(4) 3/4"-10UNC-2B on 9.000" (228.60mm) B.C.	6.001"-6.006" (152.43mm-152.55mm)

OUTPUT SHAFT OPTIONS**



Power Wheel®

Model HM20 & HM30 Horizontal Feed Mixer Drives

GENERAL SPECIFICATIONS

Model HM20

Max. Intermittent Output Torque^{1,2}.....250,000 lb-in (28,200 Nm)
 Max. Input Speed².....5,000 RPM
 Approximate Weight.....450 lb (205 kg)
 Oil Capacity³.....140 oz (4,100 cc)
 Max. Radial Load (@Pref. Load Center).....36,000 (16,300 kg)

Model HM30

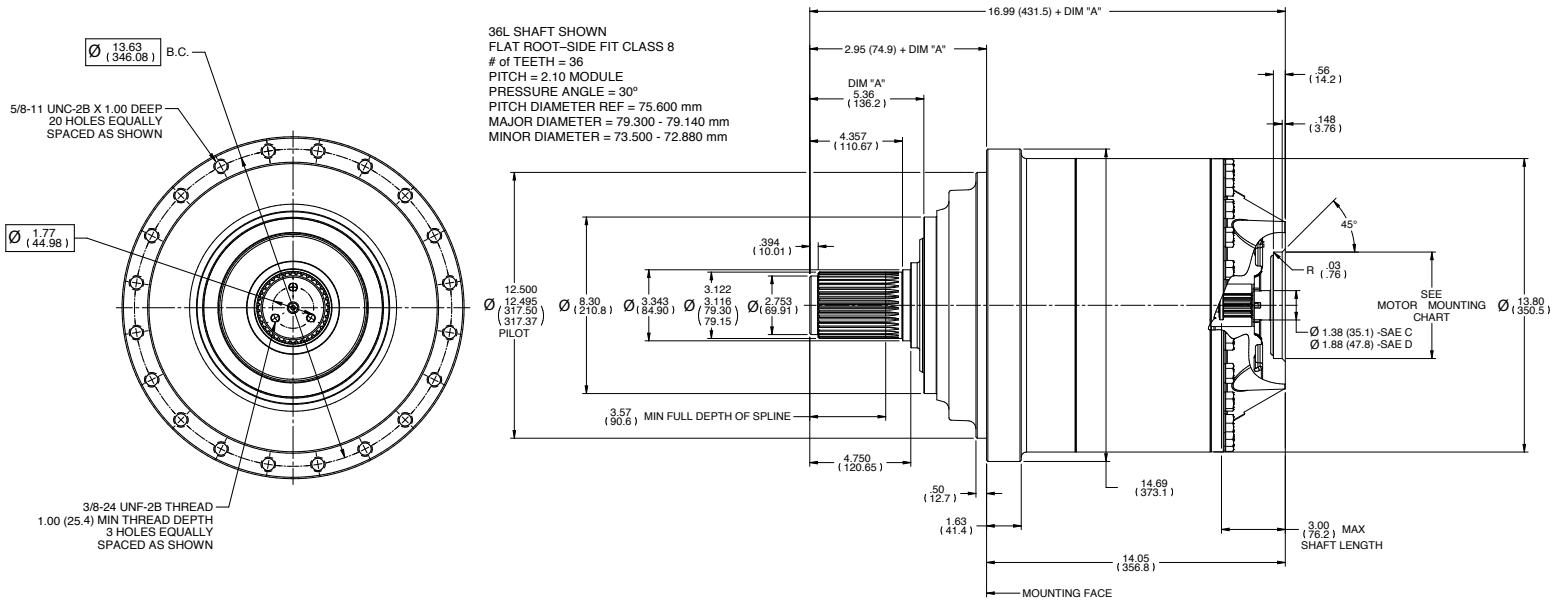
Max. Intermittent Output Torque^{1,2}.....350,000 lb-in (39,600 Nm)
 Max. Input Speed².....5,000 RPM
 Approximate Weight.....470 lb (215 kg)
 Oil Capacity³.....130 oz (3,800 cc)
 Max. Radial Load (@Pref. Load Center).....36,000 (16,300 kg)

¹ Depending on the duty cycle and the nature of the application, a normal continuous output torque of 1/3 to 1/2 of the maximum intermittent should yield satisfactory Power Wheel® life. Customer testing and application analysis is strongly recommended.

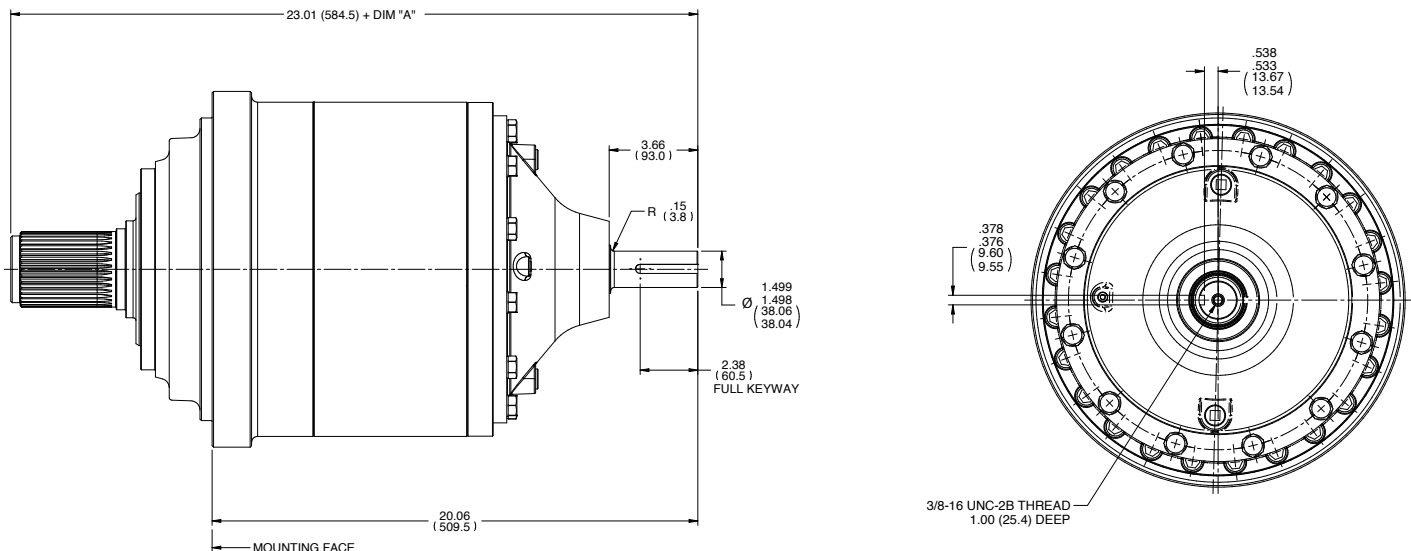
² If application exceeds published limit, contact Auburn Gear.

³ Oil capacity indicated is an approximation. Unit should be filled 1/2 full of recommended oil.

SAE C-D



K00 INPUT



FEATURE CHART: Model HM20 and HM30 Horizontal Feed Mixer Drives

Options	Description	Make All Selections In One Column						Order Codes	Use Option Order Codes To Build Order Number				
BASE MODEL	Model 250 Model 350	*	*	*	*	*	*	250S 350S	250S				
MOTOR PILOT/HUB	SAE C SAE D Input Shaft & Hub (as shown)	*			*		*	C D X		X			
INPUT SPLINE OR SHAFT*	14T 12/24 17 12/24 13T 8/16 1-1/2" Male Keyed Input	*			*		*	14 17 13 K00			K00		
RATIO OPTIONS	20.53:1 26.07:1 29.94:1 40.02:1 45.97:1	*	*	*	*	*	*	20 26 29 40 45				45	
OUTPUT SHAFTS**	36T 2.10 Module 20T 6/12 3-3/4" Keyed Shaft	*	*	*	*	*	*	36L 20 K2				36L	
Example of complete order code:									250	X	K00	45	36L

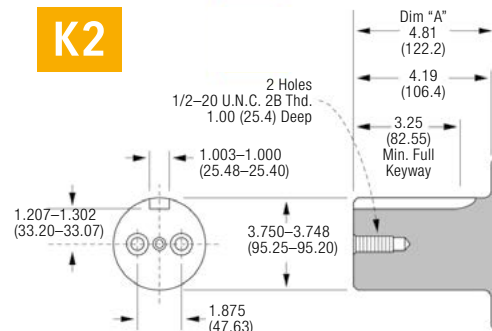
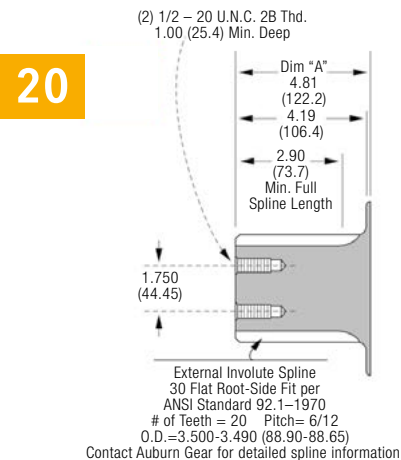
*Other input shaft options available. Contact Auburn Gear.
**For other shaft or flanged outputs. Contact Auburn Gear.

*Bearing Chart currently unavailable.
Contact Auburn Gear for more information.*

MOTOR MOUNTING CHART

SAE	# of Tapped Holes, Thread Size, and Bolt Circle	Pilot Diameter
C	(4) 1/2"-13 UNC-2B on 6.375" (161.93mm) B.C. & (2) 5/8"-11 UNC-2B on 7.125" (180.97mm) B.C.	5.001"-5.006" (127.03mm-127.15mm)
D	(4) 3/4"-10UNC-2B on 9.000" (228.60mm) B.C.	6.001"-6.006" (152.43mm-152.55mm)

OUTPUT SHAFT OPTIONS



LUBRICATION DATA

Power Wheel Planetary Drives are shipped without lubricant and must be filled to the proper level prior to start-up.

1. Type

In normal applications use an extreme pressure lubricant API-GL-5 approved. Auburn Gear recommends SAE 80W, 90, 80W-90, and 85W-90 grades of lube under normal climate and operating conditions. See chart below. For severe or abnormal applications with special requirements consult either Auburn Gear or a lubricant manufacturer for further assistance.

2. Change Interval

Initial lubrication change after 50 hours of operation. Subsequent changes every 1000 hours of yearly which ever comes first.

3. Lube Temperature

Continuous operating temperature of 160° F are allowable. Maximum intermittent temperature recommended is 200° F.

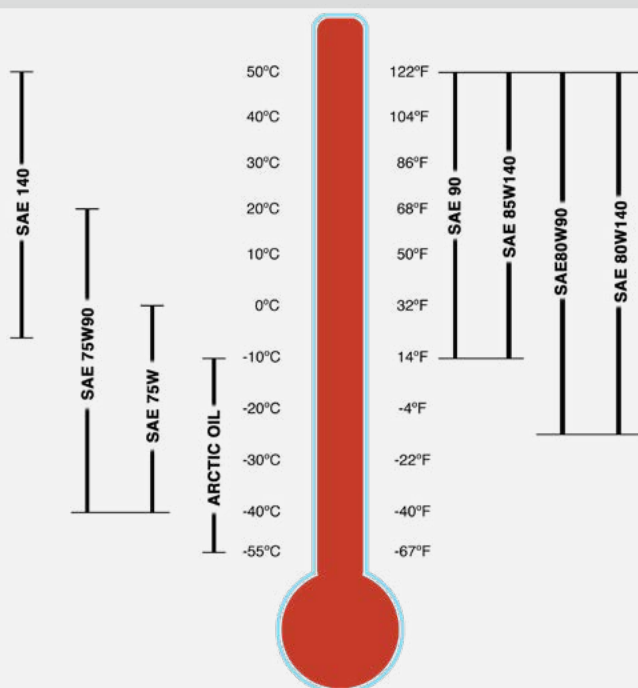
4. Amount of Lube

The unit should be half full when mounted horizontal. Lube levels for other mounts will vary. Consult Auburn Gear for detail.

5. Shaft or Spindle Up Mounting

If mounting unit vertically with shaft or spindle up, special provisions apply to ensure adequate lubrication of output bearings. Consult Auburn Gear.

POWER WHEEL TEMPERATURE GEAR LUBE REQUIREMENTS



Temperature scale represents ambient temperature.



400 E. Auburn Drive, Auburn, IN 46706

260.925.3200

www.AuburnGear.com

All specifications and data contained herein are nominal and subject to change without notice.
Specific applications should be referred to Auburn Gear for Current information.