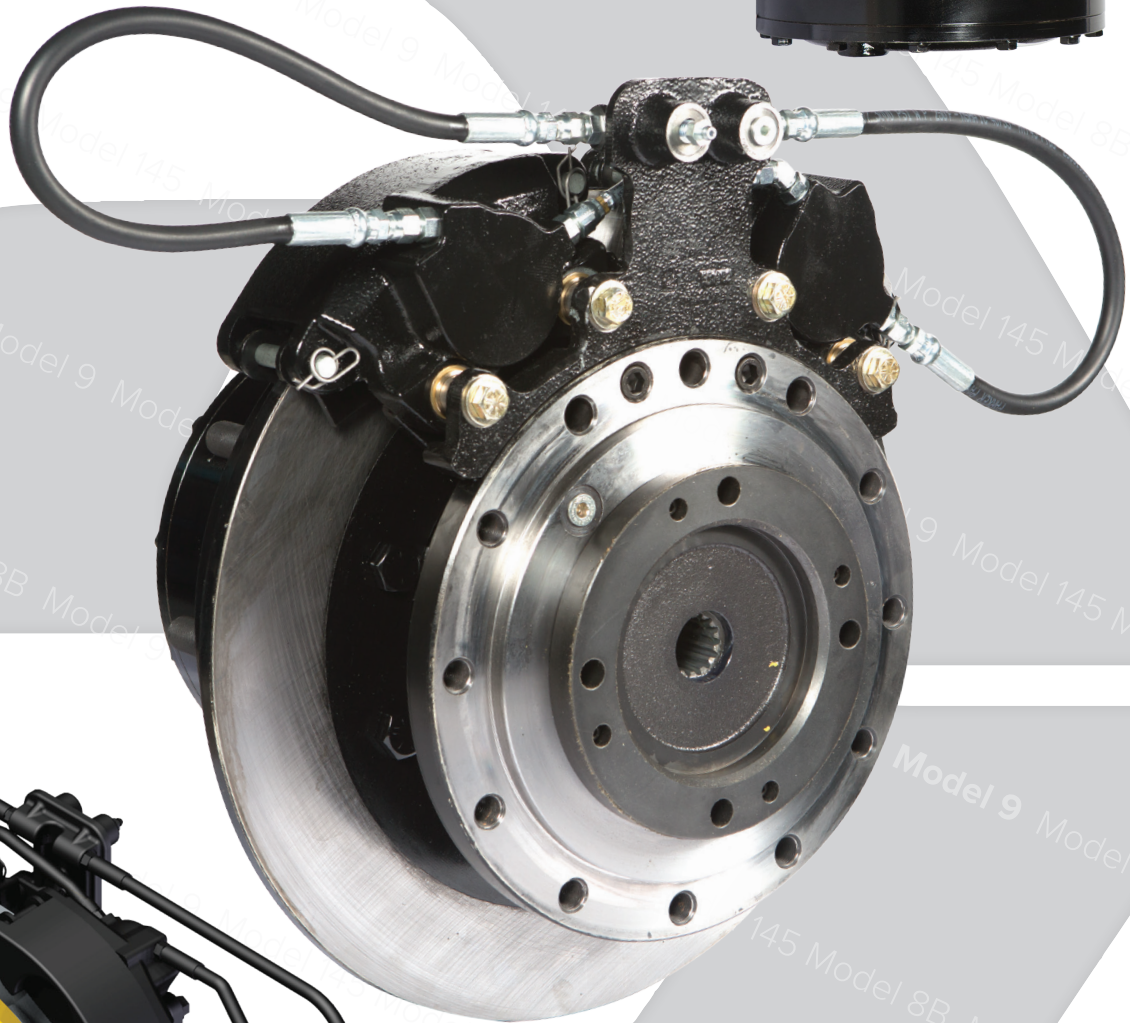
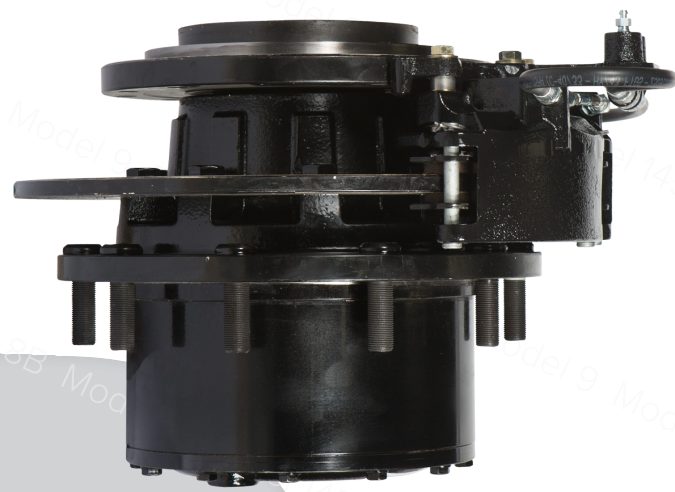


AuburnGear

Engineered Drive Solutions



Power Wheel®

Model 8B/9/145 Wheel Drives with Parking & Service Brakes

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Model 8B/9/145 Wheel Drives with Parking & Service Brakes

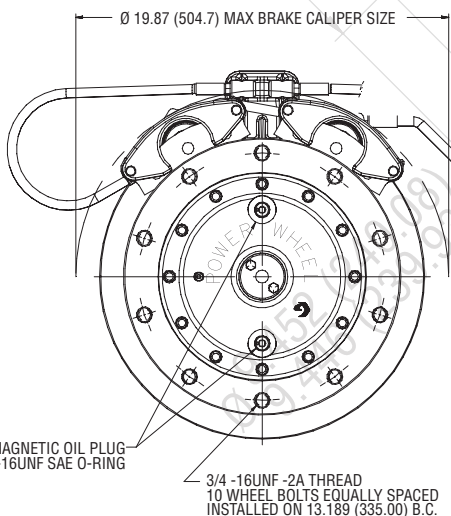
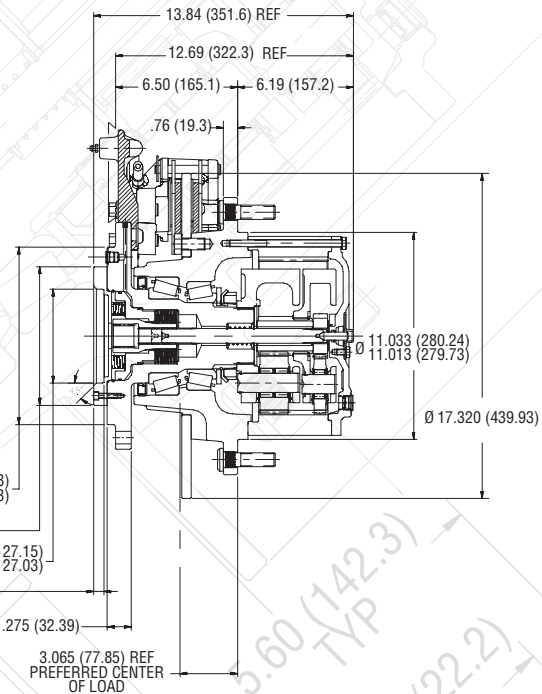
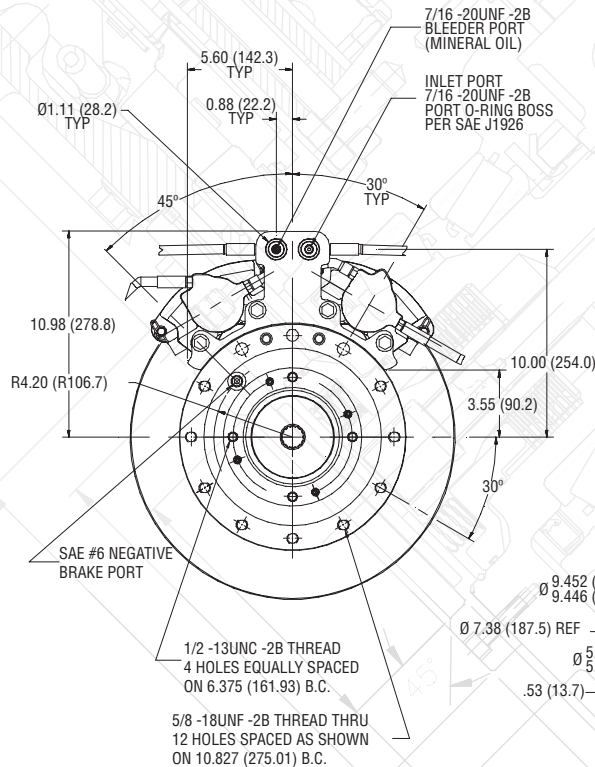
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General Specifications

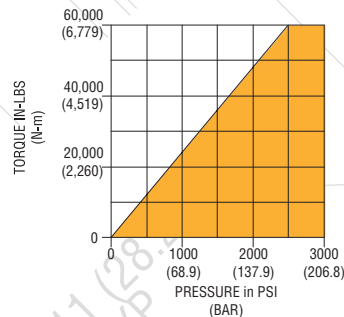
Max. intermittent output torque: ^{1,2}	Max. input speed ²	5,000 RPM
Model 8B.....	Approximate Weight.....	295 lbs (135kg)
Model 9.....	Oil capacity	70 oz (2100 cc)
Model 145.....	Max. radial load: (@ pref. load center)	30,000 lbs (13,600 kg)

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.



TORQUE VS. PRESSURE



SERVICE BRAKE

60,000 LB-IN (6780 Nm) at 2500 PSI (172 BAR)
HYDRAULIC COMMAND with MINERAL OIL

PARK BRAKE

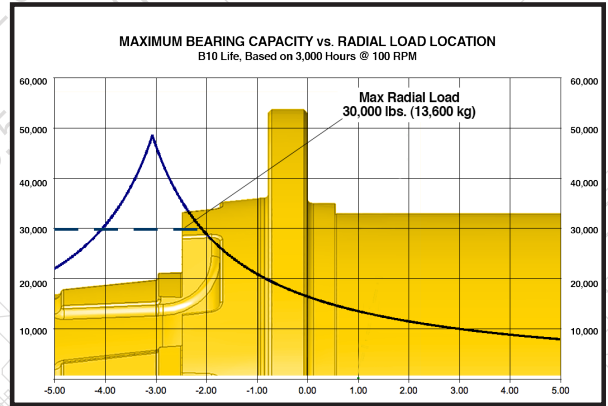
3600 LB-IN (406 Nm) BRAKE TORQUE
300 PSI (21 BAR) RELEASE PRESSURE

FEATURE CHART: MODEL 8B/9/145 WHEEL DRIVES w/ PARKING & SERVICE BRAKES

OPTIONS	DESCRIPTION	MAKE ALL SELECTIONS WITHIN ONE COLUMN	ORDER CODES	USE OPTION ORDER CODES TO BUILD PART NUMBER						
BASE MODEL	Model 8B	•	8W2	8W2						
	Model 9	•	9W							
	Model 145	•	145W							
MOTOR PILOT/HUB	SAE C - 8B	•	C7		C7					
	SAE C - 9 & 145	•	C8							
INPUT SPLINE	14T 12/24	•	14		14					
RATIO OPTIONS	14.39:1	•	14							
	17.83:1	•	17							
	22.59:1	•	22							
	25.71:1	•	25			25				
	30.50:1	•	30							
	34.20:1	•	34							
	41.42:1	•	41							
	49.00:1	•	49							
WHEEL STUDS	3/4-16 x 3.21"	•	11					11		
	M20x1.5-6g x 90	•	21							
PARK BRAKE	3600 lb-in @ 2500 psi (6,780 Nm @ 172 Bar)	•	N6					N6		
SERVICE BRAKE	60,000 lb-in, @ 2500 psi (6,780 Nm @ 172 Bar)	•	D1						D1	
SPECIAL OPTIONS	Quick Disconnect	•	Q							
	High Strength Carrier (Std on 9 & 145)	•	Y							Y

Select desired characteristics from chart, note correct order codes, and order using sample format shown at right:

8W2 C7 14 25 11 N6 D1 Y



NOTE:

These curves are supplied as a design guide and apply to resultant radial load only. They indicate the importance of maintaining wheel position over the bearing center.

For actual analysis, applications should be reviewed by Auburn Gear Engineering using data supplied on Application Data Form.

BEARING LOAD, LIFE AND SPEED RELATIONSHIPS

$$LF = \frac{SF \times R}{R'}$$

R = Allowable resultant load for given location from mounting flange

R' = Anticipated load at location from mounting flange

LF = Life Factor from table (see below)

SF = Speed Factor from table (see below)

OUTPUT SPEED (RPM)	SF	LF	BEARING HOURS B-10 LIFE
5	2.456	.584	500
10	1.994	.719	1000
20	1.620	.812	1500
30	1.435	.886	2000
40	1.316	.947	2500
50	1.231	1.000	3000
60	1.165	1.047	3500
70	1.113	1.090	4000
80	1.069	1.130	4500
90	1.032	1.166	5000
100	1.000	1.231	6000
200	.812	1.289	7000
300	.719	1.342	8000
400	.659	1.390	9000
500	.617	1.435	10000

CAUTION: The same torsional loading constraints used in the driving mode must be used in the braking mode when braking through the Power Wheel drive gear set.

MOTOR MOUNTING CHART

MOTOR MOUNTING HOLE DIMENSIONS	DIAMETER
SAE C (4) - 1/2" -13 UNC, -2B Thd Holes on 6.375 (161.93) B. C.*	ø5.001 - 5.006 (127.02 - 127.15)

* "O" RING OR GASKET REQUIRED (Not Supplied by Auburn Gear)
"O" RING SIZE, SAE "C" 2-159

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Providing Technology, Quality & Customer Support Around the Globe



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