

AM 345 PUMP DRIVE

**MAXIMUM INPUT POWER 755 KW (1010 HP)
1:1 RATIO @ 2600 RPM**

QUALITY IS STANDARD:

- CAST IRON HOUSINGS
- CASE HARDENED AND GROUND SPUR GEARS
- BALL BEARINGS
- CASE HARDENED SHAFTS
- VITON SEALS ON INPUT SHAFT
- OUTPUT ROTATION OPPOSITE THE DIRECTION OF INPUT ROTATION
- GEAR RATIOS IDENTICAL ON ALL OUTPUTS
- MODULAR DESIGN

**AM 345 TECHNICAL DATA**

RATIO :1	MAX. INPUT TORQUE N-m (lbf-ft)	MAX. OUTPUT TORQUE PER PUMP PAD N-m (lbf-ft)	MAX. INPUT SPEED RPM	MAX. OUTPUT SPEED RPM	OIL QUANTITY L (gal)
0.50	3187 (2350)	563 (415)	1950	3900	4.9 (1.29)
0.58	3154 (2325)	651 (480)	2050	3534	4.7 (1.24)
0.67	3052 (2250)	705 (520)	2200	3284	4.4 (1.16)
0.76	2984 (2200)	800 (590)	2300	3026	4.0 (1.06)
1.00	2767 (2040)	997 (735)	2600	2600	3.6 (0.95)
1.31	2509 (1850)	1065 (785)	3000	2290	3.0 (0.79)
1.48	2374 (1750)	1092 (805)	3200	2162	2.8 (0.74)

LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

PRIME MOVER	DURATION OF SERVICE	DRIVEN MACHINE LOAD CLASSIFICATIONS		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric motor	Up to 3 hours per day	1.00	1.25	1.50
	3-10 hours per day	1.00	1.25	1.75
	Over 10 hours per day	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Up to 3 hours per day	1.00	1.25	1.75
	3-10 hours per day	1.25	1.50	2.00
	Over 10 hours per day	1.50	1.75	2.25
Multi-cylinder internal combustion engine with high torque rise	Up to 3 hours per day	1.50	1.75	2.25
	3-10 hours per day	1.75	2.00	2.50
	Over 10 hours per day	2.00	2.25	2.75
Single cylinder internal combustion engine	Up to 3 hours per day	1.25	1.50	2.00
	3-10 hours per day	1.50	1.75	2.25
	Over 10 hours per day	1.75	2.00	2.50

All clutch engagements to be with prime mover below 1000 RPM. High inertia loads may require use of larger clutch. Contact Twin Disc application engineering department for assistance.

TO CALCULATE APPLICATION TORQUE:

$$\frac{5252 \times \text{HP}}{\text{Engine RPM}} = \text{Torque}$$

$$\text{Torque} \times \text{Load Factor} = \text{Application Torque}$$

Use load factor from chart at left

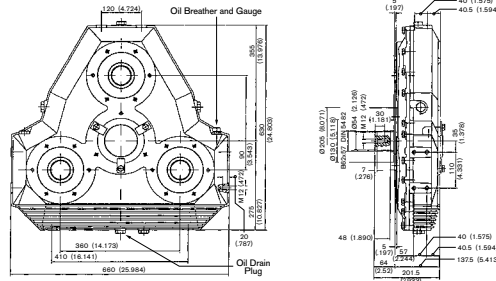
Maximum torque and maximum speed may be limited by clutch option.

Specifications subject to change without prior notice in the interest of continual product improvement.

Contact your local Twin Disc representative for engineering specifications.

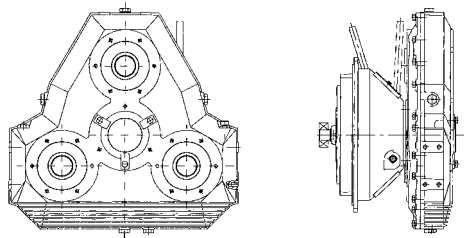


Basic Pump Drive
AM 345 B



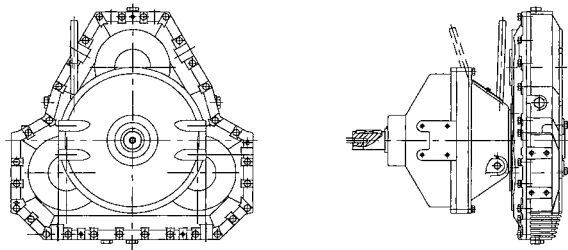
With two plate 11" clutch
AM 345 BD 290

With two plate 14" clutch
AM 345 BD 2200



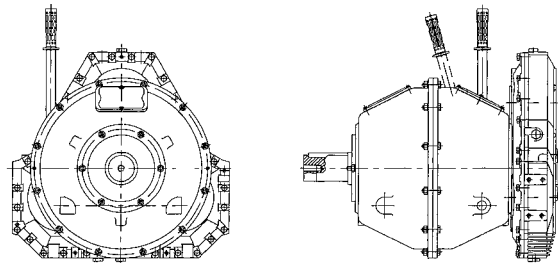
With three plate 14" clutch
AM 345 BD 3300

Independent Mount
 with two plate 11" clutch
AM 345 BDS 290



Independent Mount
 with two plate 14" clutch
AM 345 BDS 2200

Independent Mount
 With three plate 14" clutch
AM 345 BDS 3300



AM 345 MOMENT OF INERTIA DATA

RATIO	B	BD 290	BD 2200	BD 3300	BDS 290	BDS 2200
:1	kg-m ² (lb-ft ²)	kg-m ² (lb-ft ²)	kg-m ² (lb-ft ²)	kg-m ² (lb-ft ²)	kg-m ² (lb-ft ²)	kg-m ² (lb-ft ²)
0.51						
0.58						
0.67	0.2723 (6.46)	0.722 (17.14)	2.097 (49.77)	2.822 (66.97)	0.947 (22.48)	3.272 (77.65)
0.76	0.2436 (5.78)	0.694 (16.46)	2.069 (49.09)	2.794 (66.29)	0.919 (21.80)	3.244 (76.97)
1.00	0.1580 (3.75)	0.608 (14.43)	1.983 (47.06)	2.708 (64.26)	0.833 (19.77)	3.158 (74.94)
1.31	0.1452 (3.45)	0.595 (14.12)	1.970 (46.75)	2.695 (63.96)	0.820 (19.46)	3.145 (74.64)
1.48	0.1405 (3.33)	0.590 (14.01)	1.965 (46.64)	2.690 (63.84)	0.815 (19.35)	3.140 (74.52)

MODEL	WEIGHT kg (lb)
AM 345 B	154 (339)
AM 345 BD 290	188 (414)
AM 345 BD 2200	255 (562)
AM 345 BD 3300	298 (657)
AM 345 BDS 290	215 (474)
AM 345 BDS 2200	365 (805)

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

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For nearly a century, we've been putting horsepower to work by designing, engineering and manufacturing rugged-duty industrial products. Our products and our reputation are bolted to the most renowned engine manufacturers and equipment OEMs in the world. Our mission is to make your machines and vehicles more productive, more durable, more operator-friendly, more cost-effective. From design and installation consultation through after-sale support, Twin Disc and its distributors are committed to your business. No one knows more about managing horsepower in more ways than Twin Disc.

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