AM 450 PUMP DRIVE

MAXIMUM INPUT POWER 965 KW (1295 HP) 1:1 RATIO @ 2400 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 450 TECHNICAL DATA

		MAX.			
RATIO :1	MAX. INPUT TORQUE N-m (lbf-ft)	OUTPUT TORQUE PER PUMP PAD N-m (lbf-ft)	MAX. INPUT SPEED RPM	MAX. OUTPUT SPEED RPM	OIL QUANTITY L (gal)
0.67	3839 (2830)	963 (710)	2000	2985	2.5 (0.66)
0.77	3839 (2830)	1072 (790)	2100	2727	2.5 (0.66)
0.89	3839 (2830)	1173 (865)	2250	2528	2.3 (0.61)
1.00	3839 (2830)	1318 (972)	2400	2400	2.3 (0.61)

LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

DDIME MOVED	DURATION	DRIVEN MACHINE LOAD CLASSIFICATIONS			
PRIME MOVER OF SERVICE		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	Up to 3 hours per day	1.50	1.75	2.25	
combustion engine	3-10 hours per day	1.75	2.00	2.50	
with high torque rise	Over 10 hours per day	2.00	2.25	2.75	
Single cylinder internal combustion engine Up to 3 hours per day 3-10 hours per day Over 10 hours per day		1.25	1.50	2.00	
		1.50	1.75	2.25	
		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:

5252 x HP Engine RPM = Torque

Torque x Load Factor = Application Torque

Use load factor from chart at left



Basic Pump Drive AM 450 B

Four additional pump pads available on input side of drive.

With two plate 11" clutch AM 450 BD 290

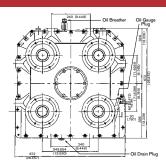
With two plate 14" clutch AM 450 BD 2200

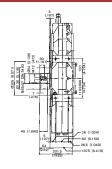
With three plate 14" clutch AM 450 BD 3300

Independent Mount with two plate 11" clutch AM 450 BDS 290

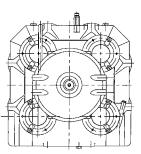
Independent Mount with two plate 14" clutch AM 450 BDS 2200

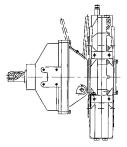
Independent Mount
With three plate 14" clutch
AM 450 BDS 3300

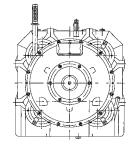


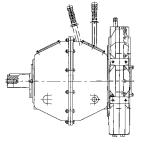












AM 450 MOMENT OF INERTIA DATA

	RATIO	В	BD 290	BD 2200	BD 3300	BDS 290	BDS 2200
	:1	kg-m² (lb-ft²)					
	0.67	0.6413 (15.22)	1.109 (26.32)	2.466 (58.53	3.191 (75.73)	1.316 (31.24)	3.641 (86.41)
	0.77	0.5777 (13.71)	1.045 (24.80)	2.403 (57.02)	3.128 (74.22)	1.253 (29.73)	3.578 (84.90)
	0.89	0.4527 (10.74)	0.920 (21.84)	2.278 (54.05)	3.003 (71.26)	1.128 (26.76)	3.453 (81.93)
	1.00	0.4445 (10.55)	0.895 (21.23)	2.270 (53.86)	2.995 (71.06)	1.120 (26.57)	3.445 (81.74)

	WEIGHT
MODEL	WEIGHT kg (lb)
AM 450 B	205 (452)
AM 450 BD 290	271 (597)
AM 450 BD 2200	338 (745)
AM 450 BD 3300	381 (840)
AM 450 BDS 290	298 (657)
AM 450 BDS 2200	448 (988)

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 aftersale 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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