

PUMP DRIVE SELECTION PROCEDURE

1. Identify the number and type of hydraulic pumps to be applied.
2. Check the maximum torque absorbed by the pump or pumps on each output of the pump drive.
3. Check the maximum power/torque entering the pump drive from the prime mover.
4. Compare the size of the hydraulic pumps to the selected pump drive installation dimensions to determine if the proper clearance exists to mount the pumps on the pump drive.
5. Select the desired input configuration:
 - B – Basic mount, either with drive plate or rubber block drive
 - BD – Engine-mounted clutch input
 - BDS – Independently mounted clutch input

If a BD or BDS option is selected, verify that the input speed does not exceed the maximum allowable speed for the clutch and that the applied torque does not exceed 80% of the maximum torque rating of the clutch.
6. Verify that the torque value of each output is below the maximum value shown for the chosen pump drive.
7. Verify that the input speed does not exceed the maximum input speed shown for the pump drive.
8. Select the proper output option for pump adaptation. SAE adapters are available for all pump drives. Other adaptations may be available, contact Twin Disc for non SAE adaptations.
9. Identify cooling requirements:
 - Oil operating temperature must not exceed 105°C (221°F) with synthetic oil or 80°C (176°F) with mineral oil.
 - Depending on the input power, application and duty, a cooling system may be necessary.
 - It is advisable to check the oil temperature during the first few hours of work to make sure it does not exceed the maximum temperatures listed.
 - All pump drives (except AM 216 and AM 320) can be equipped with a cooling system consisting of an oil circulating pump mounted on the input shaft on the pump side, and oil/water cooler and required piping and fittings.

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.

U.S.A. • Australia • Belgium • Canada • China • India • Italy • Singapore • Switzerland

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.

**TRANSMISSIONS • CLUTCHES • PTOS
PUMP DRIVES • TORQUE CONVERTERS
GEARBOXES • HYDRAULIC PTO PRODUCTS**



**Twin Disc, Incorporated
Racine, Wisconsin 53403 USA
Phone +1-262-638-4000
Fax +1-262-638-4482
www.twindisc.com**

Bulletin-AM270
© 2014, Twin Disc, Incorporated
Printed in the USA - 4/2014