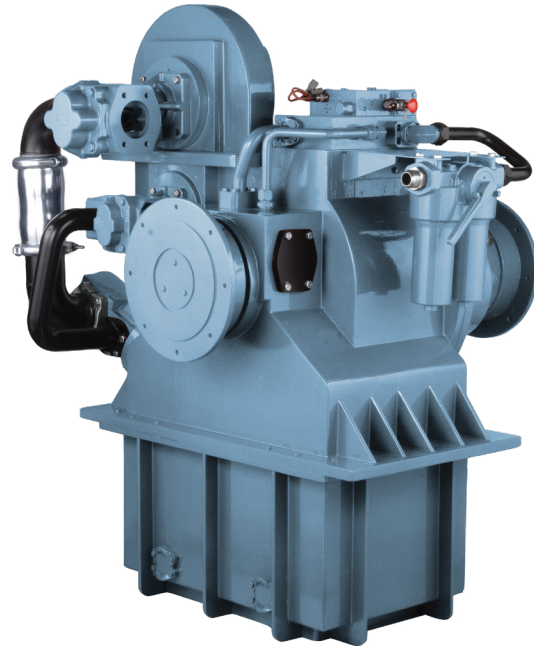


**MCD-2000 • MCD-4000 • MCD-5000****UP TO 5250 kW/7,040 HP**

Twin Disc pioneered the slipping clutch concept more than 30 years ago and today offers a full line of time-tested, field-proven Marine Control Drives (MCDs).

The new series of MCDs offers distinct operating advantages for any vessel requiring highly accurate positioning or extreme slow-speed maneuverability while splitting main engine power to operate high-powered FiFi pumps.

**FEATURES & BENEFITS**

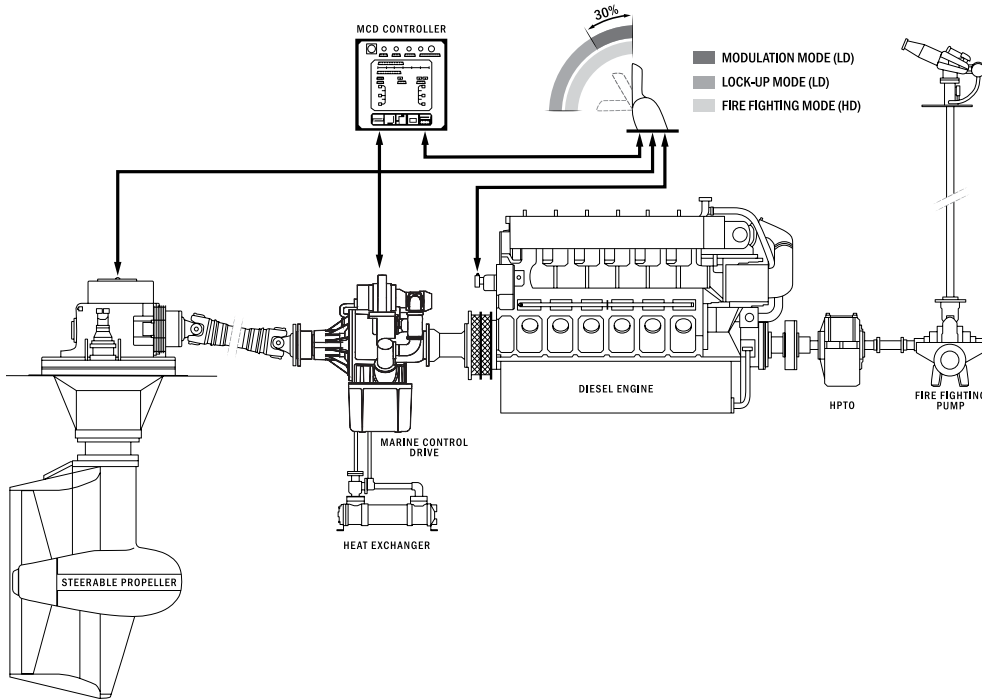
- Extraordinarily modulated power achieves propeller speeds below engine idling speed.
- Unique design and manufacture allow for intentional clutch slipping to regulate propulsion speed.
- LD (Low Dissipation) slips up to engine idle speed for maneuvering and DP operation.\*
- MD (Medium Dissipation) slips up to a defined engine speed below rated speed, allowing power dividing up to that speed/power.\*
- HD (High Dissipation) slips up to rated engine speed with the capability to dissipate all heat generated by that when power dividing.\*
- Optional high-power PTO to drive auxiliary equipment.
- Optional PTI for secondary propulsion power source, up to 7,600 Nm torque on MCD output shaft.
- Used in conjunction with azimuth thruster systems.
- Best alternative to controllable pitch propellers (CPP).

*\*Twin Disc's expert application team will help customize your MCD selection to the desired operator requirement.*

**IT'S ALL HERE**

- Smooth, gradual propeller speed change resulting in improved maneuverability
- Safer and easier vessel control during slow speed maneuvering and docking
- Adjustment of propeller speeds below engine speed rating
- Divides the power from the main propulsion engine to eliminate the need for auxiliary engines
- Delivers an instant response when required
- Bearing calculated for high universal joint angles at maximum power
- Dynamic positioning (DP) capable
- Emergency "come home" device per classification requirements
- Easy, in-engine room maintenance; no need for diver assistance or to dry-dock the vessel

Since 1918, 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 boats, machines and off-highway vehicles more productive, more durable, more operator-friendly, and 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

ELECTRONIC CONTROLS

EXPRESS JOYSTICK SYSTEM®

SAILDRIVES

EXPRESS POSITIONING®

ARNESON® SURFACE DRIVES

MARINE CONTROL DRIVES

ROLLA™ PROPELLERS

VETH PROPULSION SYSTEMS

STEERING SYSTEMS

PUMP DRIVES

PTOS

## SPECIFICATIONS

LD MODELS	
Model	kW/rpm
MCD-2000-1LD	1.20
MCD-2000-2LD	1.60
MCD-2000-3LD	2.00
MCD-4000-1LD	2.40
MCD-4000-2LD	2.80
MCD-4000-3LD	3.20
MCD-4000-4LD	3.60
MCD-4000-5LD	3.75

HD MODELS		
Model	kW/rpm	Dissipation
MCD-2000-1HD	1.20	100 kW
MCD-2000-2HD	1.60	130 kW
MCD-2000-3HD	2.00	160 kW
MCD-4000-1HD	2.40	190 kW
MCD-4000-2HD	2.80	225 kW
MCD-4000-3HD	3.20	250 kW
MCD-4000-4HD	3.60	290 kW
MCD-4000-5HD	3.75	330 kW
MCD-5000-1HD	3.75	400 kW
MCD-5000-2HD	3.75	450 kW

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. 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.