

ZF W63000 NR

Vertical offset, remote mount marine transmission.

Description

- Marine reduction transmission series for heavy duty, commercial application comprising:NR:Non-Reversing Reduction (with hydraulic actuated clutch) .
- Robust design also withstands continuous duty in workboat applications .
- Fully works tested, reliable and simple to install.
- Compatible with all types of engines and propulsion systems .
- Design, manufacture and quality control standards comply with ISO 9001.
- Easy onboard maintenance.

Features

- Robust, torsion resistant housing (cast iron/welded steel) .
- Case hardened and precisely ground gear teeth for long life and smooth running
- Output shaft thrust bearing designed to take maximum propeller thrust astern and ahead .
- Free standing .
- Smooth and reliable hydraulic shifting (electrically activated with mechanical override) with pressure modulation for controlled engagement.
- Suitable for multi engine installation (same ratio and torque capacity enginewise or counter enginewise .
- Emergency "get home" capability .
- Cast-on brackets .
 - Oil cooler complete with fittings .

Options

- Engine-matched torsional coupling .
- Pneumatic clutch actuation .
- Standard monitoring system .
- Special monitoring (acc. Classification Society requirements) .
- Propeller shaft flange and coupling bolt sets.
- PTO (live or clutchable) .
- Standby oil pump
- Classification by all major Classification Societies on request.

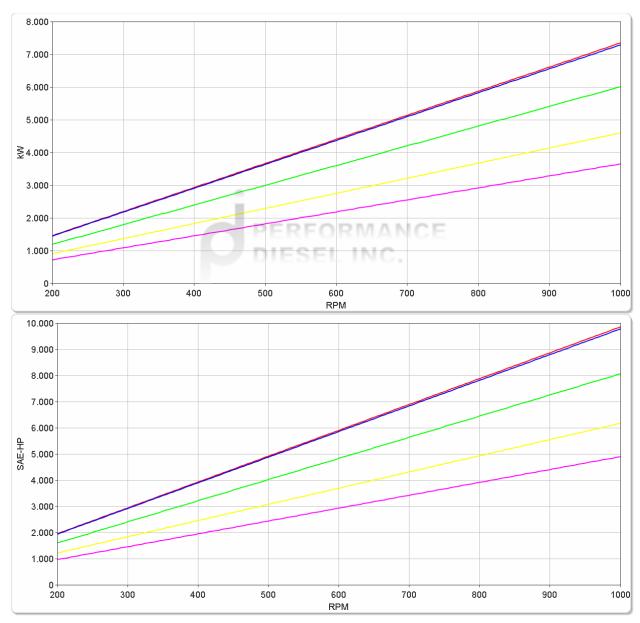
ZF W63000 NR

Ratings

Continuous Duty

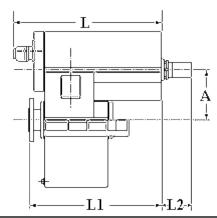
RATIOS	MAX. TORQUE POWER/RPM			INPUT POWER CAPACITY						MAX.	
IVATIOS	Nm	ftlb	kW	hp	kW	hp	kW	hp	kW	hp	RPM
	600 rpm		750 rpm		1000 rpm						
2.481	70288	51842	7.3600	9.8699	4416	5922	5520	7402	7360	9870	1000
2.917	69731	51431	7.3017	9.7917	4381	5875	5476	7344	7302	9792	1000
3.476	57536	42436	6.0247	8.0793	3615	4848	4519	6059	6025	8079	1000
4.000	44047	32487	4.6123	6.1851	2767	3711	3459	4639	4612	6185	1000
4.500	34995	25811	3.6644	4.9140	2199	2948	2748	3686	3664	4914	1000

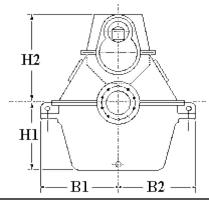
* Special Order Ratio.
Ratings shown for the ZF W17000, and larger gearboxes, are valid for applications without ice classification and comply with BV (Bureau Veritas) rules.



ZF W63000 NR

Dimensions



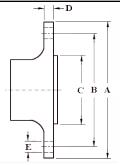


mm (inches)										
A B ₁		B ₂ H ₁		H ₂	L J	L ₁	L2			
670 (26.4)	995 (39.2)	995 (39.2)	900 (35.4)	1,367 (53.8)	1,836 (72.3)	1,785 (70.3)	346 (13.6)			
	Weight	kg (lb)		Oil Capacity Litre (US qt)						
	9,200 (20,240)		370 (392)						

DIESEL INC.

Output Coupling Dimensions

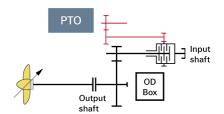
A B		C)	Bolt Holes				
		Ь						No.	Diameter (E)	
mm	in	mm	in	mm	in	mm	in	140.	mm	in
720	28.3	650	25.6	410	16.1	71.0	2.80	18	37.0	1.46

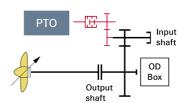


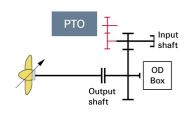
ZF W63000 NR PTO

PTO Configurations

PTO3 (Live) PTO4 (Clutchable)







PTO5 (Live)





Duty Definitions

CONTINUOUS DUTY DEFINITION Continuous operation with little or no variations in engine speed and power

Average engine operating Unlimited

hours limit:

Typical hull forms: Displacement.

Typical applications: Heavy duty commercial vessels, tugs, fishing boats.

Duty Ratings

Ratings apply to marine diesel engines at the indicated speeds. At other engine speeds, the respective power capacity (kW) of the transmission can be obtained by multiplying the Power/Speed ratio by the speed.

Approximate conversion factors:

1 kW = 1.36 metric hp

1 kW = 1.34 U.S. hp (SAE)

1 U.S. hp = 1.014 metric hp

1 Nm = 0.74 lb.ft.

Ratings apply to right hand turning engines, i.e. engines having counterclockwise rotating flywheels when viewing the flywheel end of the engine. These ratings allow full power through forward and reverse gear trains, unless otherwise stated.

Contact your nearest ZF Sales and Service office for ratings applicable to gas turbines, gasoline (petrol) engines, as well as left hand turning engines, and marine transmissions for large horsepower capacity engines.

Ratings apply to marine transmissions currently in production or in development and are subject to change without prior notice.

NOTE: THE MAXIMUM RATED INPUT POWER MUST NOT BE EXCEEDED (SEE RESPECTIVE RATINGS IN THE TECHNICAL DATA SHEETS)

Safe Operating Notice

The safe operation of ZF products depends upon adherence to technical data presented in our brochures. Safe operation also depends upon proper installation, operation and routine maintenance and inspection under prevailing conditions and recommendations set forth by ZF. Damage to transmission caused by repeated or continuous emergency manoeuvres or abnormal operation is not covered under warranty. It is the responsibility of users and not ZF to provide and install guards and safety devices, which may be required by recognized safety standards of the respective country (e.g. for U.S.A. the Occupational Safety Act of 1970 and its subsequent provisions).

Monitoring Notice

The safe operation of ZF products depends upon adherence to ZF monitoring recommendations presented in our operating manuals, etc. It is the responsibility of users and not ZF to provide and install monitoring devices and safety interlock systems as may be deemed prudent by ZF. Consult ZF for details and recommendations.

Torsional Responsibility and Torsional Couplings

The responsibility for ensuring torsional compatibility rests with the assembler of the drive and driven equipment. ZF can accept no liability for gearbox noise caused by vibrations or for damage to the gearbox, the flexible coupling or to other parts of the drive unit caused by this kind of vibration. Contact ZF for further information and assistance. ZF recommends the use of a torsional limit stop for single engine powered boats, wherein loss of propulsion power can result in loss of control. It is the buyer's responsibility to specify this option, which can result in additional cost and a possible increase in installation length.

ZF can accept no liability for personal injury, loss of life, or damage or loss of property due to the failure of the buyer to specify a torsional limit stop. ZF selects torsional couplings on the basis of nominal input torque ratings and commonly accepted rated engine governed speeds. Consult ZF for details concerning speed limits of standard offering torsional couplings, which can be less than the transmission limit. Special torsional couplings may be required for Survey Society Ice Classification requirements.

