



ZF W43100 NC

Vertical offset, remote mount marine transmission.

Maximum Input**

Duty	kW	hp	RPM
Continuous	6160	8254	1000

** Must not be exceeded

Description

- Marine reduction transmission series for heavy duty, commercial application comprising:NC:Direct Drive Reduction (without 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 .
- Free standing .
- Cast-on brackets .
- Oil cooler complete with fittings .

Options

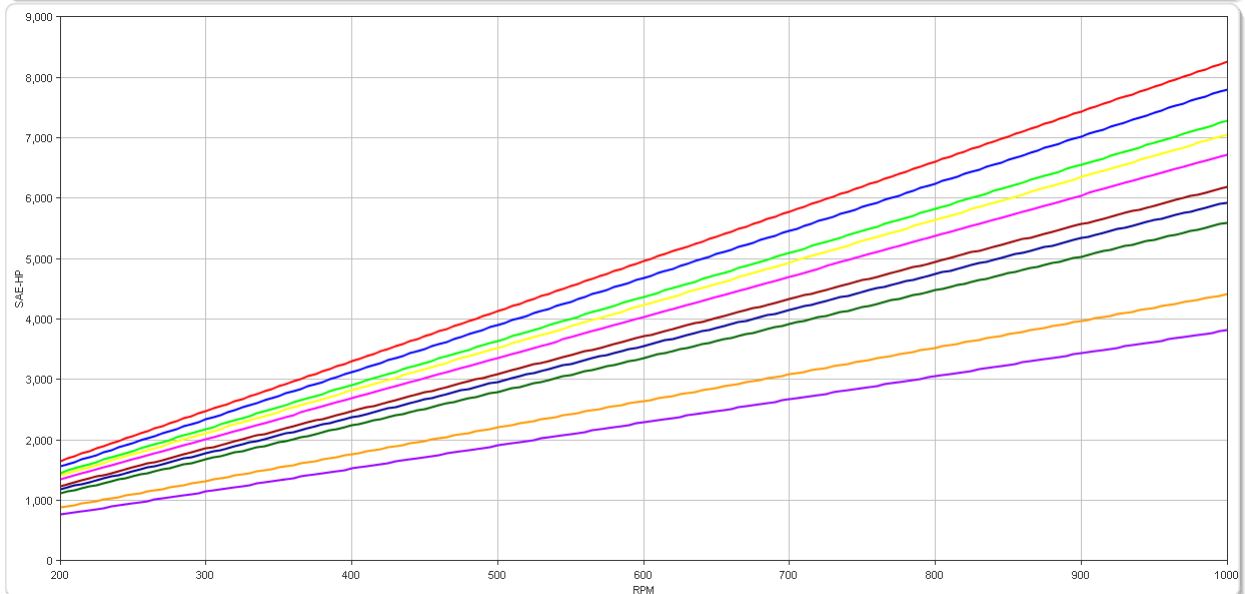
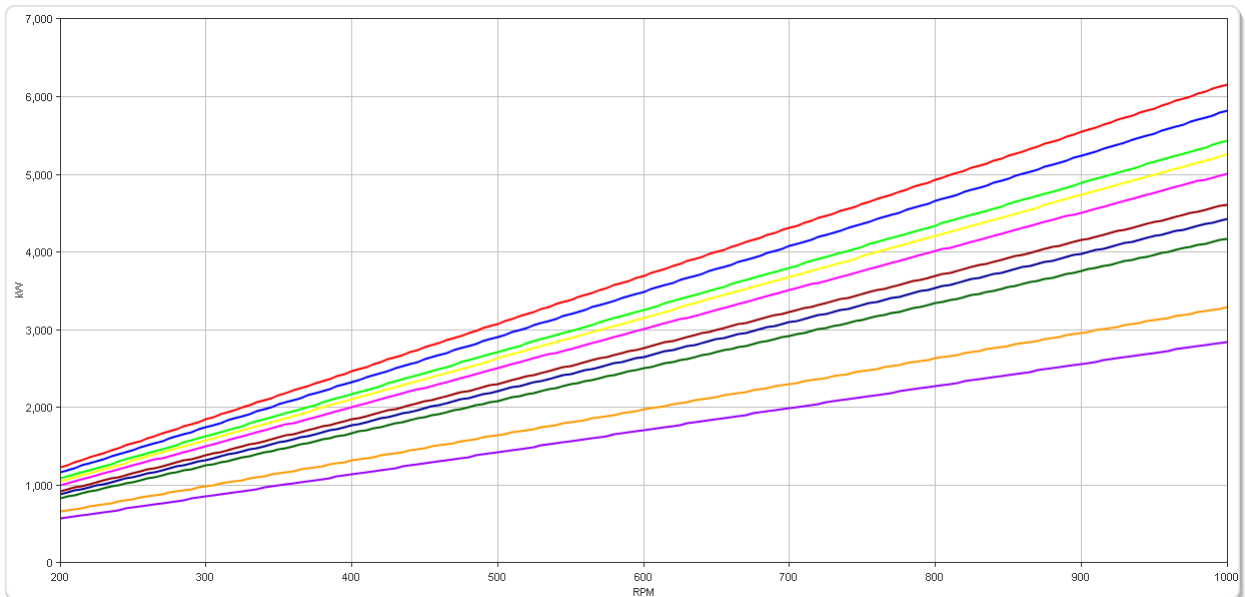
- Engine-matched torsional coupling .
- Standard monitoring system .
- Special monitoring (acc. Classification Society requirements) .
- Propeller shaft flange and coupling bolt sets .
- PTO (live or clutchable) .
- Standby oil pump .
- Classification by all major Classification Societies on request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

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Ratings

Continuous Duty

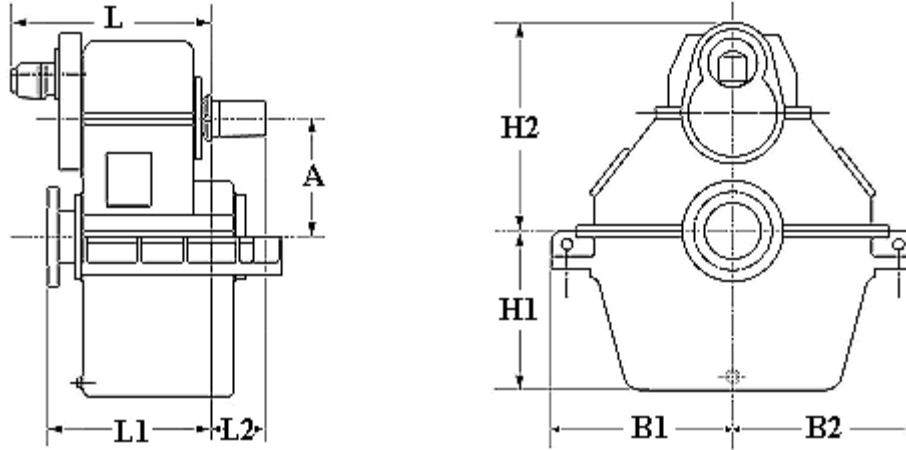
RATIOS	MAX. TORQUE		POWER/RPM		MAXIMUM RATED POWER						MAX. RPM
	Nm	ftlb	kW	hp	600 rpm		750 rpm		1000 rpm		
					kW	hp	kW	hp	kW	hp	
2.516	58828	43389	6.1600	8.2607	3696	4956	4620	6196	6160	8261	1000
3.037	55581	40994	5.8200	7.8047	3492	4683	4365	5854	5820	7805	1000
3.500	51857	38248	5.4301	7.2818	3258	4369	4073	5461	5430	7282	1000
3.739	50233	37050	5.2600	7.0538	3156	4232	3945	5290	5260	7054	1000
3.909	47869	35306	5.0125	6.7218	3007	4033	3759	5041	5012	6722	1000
4.478	44071	32505	4.6148	6.1885	2769	3713	3461	4641	4615	6189	1000
4.684	42247	31160	4.4238	5.9324	2654	3559	3318	4449	4424	5932	1000
4.952	39861	29400	4.1739	5.5973	2504	3358	3130	4198	4174	5597	1000
5.579	31410	23167	3.2890	4.4106	1973	2646	2467	3308	3289	4411	1000
5.950	27179	20046	2.8460	3.8165	1708	2290	2134	2862	2846	3817	1000



NOTE: Ratings shown are valid for applications without ice classification and comply with BV (Bureau Veritas) rules.

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Dimensions



mm (inches)							
A	B ₁	B ₂	H ₁	H ₂	L	L ₁	L ₂
770 (30.3)	995 (39.2)	995 (39.2)	900 (35.4)	1432 (56.4)	1100 (43.3)	985 (38.8)	340 (13.4)
Weight kg (lb)				Oil Capacity Litre (US qt)			
6800 (14960)				370 (392)			

Duty Definitions

CONTINUOUS DUTY DEFINITION Continuous operation with little or no variations in engine speed and power
Average engine operating hours limit: **Unlimited**
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.

