

GDF

船用发电机组

Marine Generating Sets



GDF®

广州柴油机厂股份有限公司
GUANGZHOU DIESEL ENGINE FACTORY CO.,LTD

230系列船用发电机组(550kW-1000kW)产品介绍

Introduction of series 230 marine generating sets with the rated output of 550kW-1000kW



- 火车渡轮“粤海铁3号”采用我厂3台（CCFJ960J-W）船用发电机组
- The Train Ferry "YUEHAI RAILWAY No.3" Equipped With 3 Sets (CCFJ960J-W) Marine Generating Sets

230系列船用发电机组性能特点

BRIEF INTRODUCTION TO 230 SERIES MARINE GENERATING SETS CHARACTERISTICS

产品特点

CHARACTERISTICS

230系列船用柴油发电机组可燃用运动粘度380厘沱/50℃或雷氏1号3500秒/100°F的重油。

230系列船用发电机组完全符合国际海事组织（IMO）规定的NOx排放标准。

发电机、调速器、增压器、喷油泵、喷油器、活塞环、连杆轴瓦、起动空气马达、扭振减振器等主要配套件在全世界范围的著名品牌中挑选，230系列船用发电机组的技术性能可及进口机组。

230系列船用发电机组适用范围

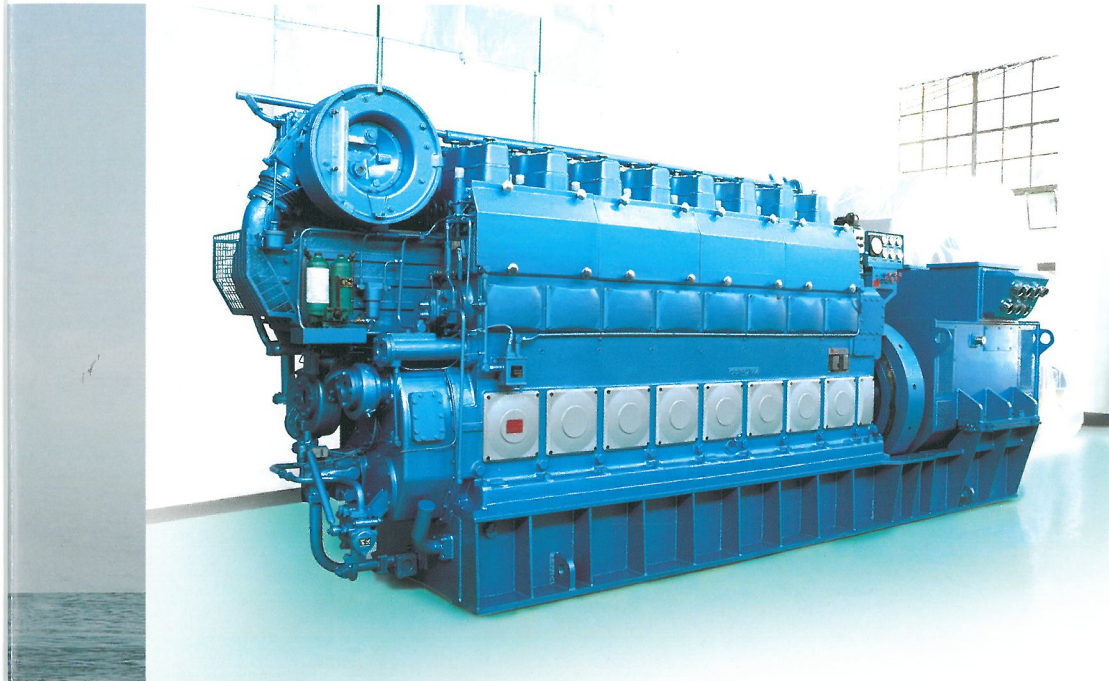
230 series marine generating sets suitable for following applications

- 近海及远洋船舶的电站
- 工程船舶用电站
- 柴油发电机组——电力推动的各类船舶
- 海上作业平台
- Power stations of offshore ships and transoceanic vessels
- Power stations of engineering ships
- Generating sets——the ships driven by electricity
- Offshore work platform

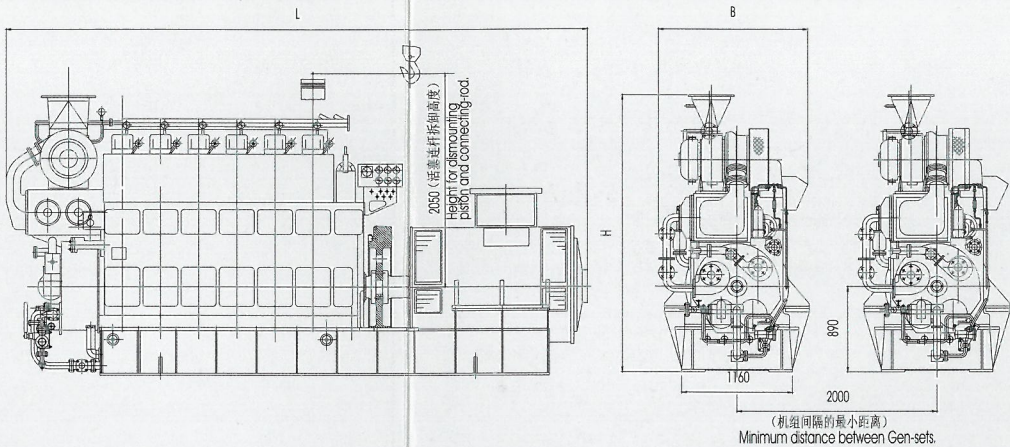
The series 230 marine diesel generating sets is capable of being operated on heavy fuel oil of 380cSt/50℃ or of 3500sec.Red.No.1/100°F.

The NOx exhaust emission of the series 230 marine engine is in conformity with the NOx exhaust emission standard issued by IMO.

The main mating parts, such as generator, governor, turbocharger, fuel injection pump, injector, piston ring, connecting-rod bearing shell, air starting motor, torsion vibration damper, etc., are selected from the famous brands throughout the world. The technical performance of series 230 marine Gen-sets can reach the level of imported gen-set. from the famous brand manufacturers.



外形尺寸
Overall dimensions



主要技术参数
The main specifications parameters

结构Construction	直列In-line
缸径Bore of cylinder	230 mm
冲程Stroke	300 mm
转速Speed	750 / 720 rpm
活塞平均速度Mean piston speed	7.5 / 7.2 m/s
平均有效压力Mean effective pressure	1.73 MPa
最大燃烧压力Max. combustion pressure	13.0 MPa
燃油Fuel	轻柴油、180cSt/50℃重油、 380cSt/50℃重油 diesel oil HFO with viscosity of 180cSt/50℃ HFO with viscosity of 380cSt/50℃
燃油消耗率Specific fuel oil consumption	192 g/kW · h
机油消耗率Specific lube oil consumption	1.0 g/kW · h

2 便于安装
EASY INSTALLATION

柴油机和发电机一同安装在公共底架上，公共底架同时作为润滑油的存储柜。紧凑的结构有效地减少了占用机舱的体积。机组与船体既可采用刚性支承，也可采用弹性支承。

柴油机的外围系统组装成模块，既减少了在船上安装时的管路连接，也可以令机舱布置有最大的灵活性。

Diesel engine and generator are assembled on a common base bed which also acts as the lube oil storage tanker. The compact structure decreases the occupation volume of engine room effectively. The rigid support or the elastic support can be selected for the installation between Gen-set. and ship body. The peripheral system of the engine is made into modules, which not only decreases the pipe connection when the installation has been carried out in the ship but also make the engine room arrange flexible to utmost extent.

3 可靠性高
HIGH RELIABILITY

230系列柴油机自推出市场以来，已被大批量地使用，是十分成熟的产品。

230系列柴油机采用了无管路设计的理念，油、水管路被集成到机体内，有效地减少了零部件，提高了可靠性。气缸套孔、曲轴箱、进气箱全部在机体内整体浇铸出来，使柴油机有十分强的刚性，能承受巨大的燃烧压力和往复惯性力。保证了机器的可靠性和耐久性。

Series 230 diesel engines have been used in large quantity and are greatly mature products since the product is launched. Series 230 diesel engine adopts the philosophy of pipeline-free design, the pipes for oil and water are integrated in the cylinder block, which effectively decrease the parts and improve the reliability. The holes for cylinder liner, crankcase box and inlet-air box are integrally cast in the cylinder block with the result that the engine has very high rigidity and can bear the huge combustion pressure and reciprocating inertia force, which ensure the engine reliability and endurance.

4 燃油适应性强
STRONG ADAPTABILITY FOR FUEL

由于采用了现代中速船用柴油机的设计方法和制造精良的零部件，因此机组能使用粘度达到380cSt/50℃的劣质燃料油。

The Gen-set. can use the inferior fuel with viscosity up to 380cSt/50℃ because the engine adopts advanced middle marine diesel design method and superior parts and components.

5 控制系统
CONTROL SYSTEM

与机组相匹配的监测和控制系统能满足各种不同的轮机自动化要求。

The monitor and control system matching Gen-set. can meet the various engine automatic requirements.

6 先进的环保指标
ADVANCED ENVIRONMENTAL PROTECTION INDEX

230系列柴油机NOx 排放满足IMO Tier II 要求。

机组在额定工况下，柴油机的排气烟度仅为0.2波许，能实现真正的全负荷范围内无可见烟色。

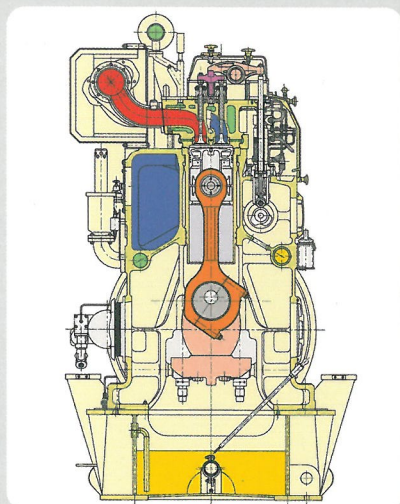
230 Series diesel engine meet EIAPP IMO-Tier II emission requirements.

The Exhaust Smoke of engine is only 0.2 Bosch in rated operating condition, which means that the visible smoke color-free in full load rang can realized really.

名优产品 享有盛誉 功能齐备 可靠性高
Quality Product with Complete Function, Reliable Performance and High Reputation

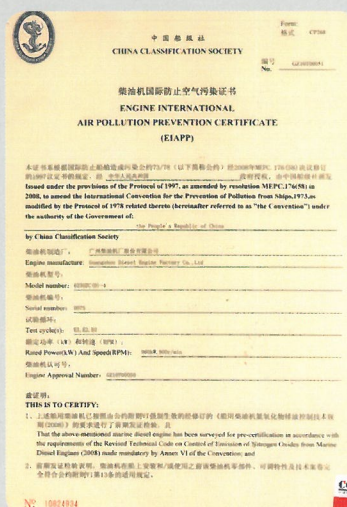
产品外形图

Attached overall dimension drawing for generating sets.



柴油机国际防止空气污染符合证明

Statement of compliance on Engine International Air Pollution Prevention



- 230系列船用发电机组完全符合国际海事组织（IMO）规定的NOx排放标准。
- The NOx exhaust emission of the series 230 marine engine is in conformity with the NOx exhaust emission standard issued by IMO.

型号和规格

Model and Specification

50Hz / 400V / 750rpm

机组Generating set		柴油机Diesel engine		发电机Generator		外形尺寸(mm)Overall dimension			机组重量(kg) Weight of Gen-set.
型号Model	功率(kW) Rated output	型号Model	功率(kW) Power	型号Model	容量(kVA) Capacity	L	B	H	
CCFJ550J-W	550	6230ZD	810	1FC6 504-8	688	5743	1534	2748	18000
CCFJ660J-W	660	6230ZD	810	1FC6 562-8	825	5673	1634	2748	18500
CCFJ750J-W	750	6230ZD	810	1FC6 562-8	938	5673	1634	2748	18500
CCFJ880J-W	880	8230ZD	1080	1FC6 564-8	1100	6629	1634	2822	23000
CCFJ960J-W	960	8230ZD	1080	1FC6 566-8	1200	6629	1634	2822	23000

60Hz / 450V / 720rpm

机组Generating set		柴油机Diesel engine		发电机Generator		外形尺寸(mm)Overall dimension			机组重量(kg) Weight of Gen-set.
型号Model	功率(kW) Rated output	型号Model	功率(kW) Power	型号Model	容量(kVA) Capacity	L	B	H	
CCFJ550J-W	550	6230ZD	778	1FC6 504-3	688	5743	1534	2748	18000
CCFJ660J-W	660	6230ZD	778	1FC6 562-3	825	5673	1634	2748	18500
CCFJ704J-W	704	6230ZD	778	1FC6 562-3	880	5673	1634	2748	18500
CCFJ880J-W	880	8230ZD	1037	1FC6 566-3	1100	6629	1634	2822	23000
CCFJ944J-W	944	8230ZD	1037	1FC6 566-3	1180	6629	1634	2822	23000

创新世纪动力

Power for new century

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