C.S.I.
POWER

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本资料的有关数据仅供参考以公司提供的技术文件为准，因产品改进，本资料所载产品相关数据及文字表述如有变动，恕不另行通知。

2024版

让世界充满宁动力
C.S.I.POWER &
MACHINERY GROUP

C.S.I.
让世界充满宁动力

产品选型手册
PRODUCT SELECTION MANUAL

宁波中策动力机电集团有限公司
Ningbo C.S.I. Power & Machinery Group CO., LTD.


C.S.I.
POWER
让世界充满宁动力
MAKE THE WORLD FULL OF C.S.I. POWER
C.S.I. POWER & MACHINERY GROUP



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ABOUTS US

关于我们

公司前身可追溯到 1900 年的顺记机器厂，是原国家机械工业部专业生产船用柴油机和柴油发电机组的重点企业。目前已发展成一家以大功率海洋装备动力及能源发电系统为核心，真空技术和智能成型装备制造为主导，国际工程、贸易、投资为附翼的复合型工业企业。

公司控股（参股）企业 20 余家，资产总额 40 亿元，为国家首批高新技术企业，拥有国家企业技术中心、国家级博士后科研工作站、省级重点企业研究院（首批）。先后获得中国机械工业 500 强企业、浙江省工业行业龙头骨干企业、浙江省“五个一批”重点企业、宁波市综合百强企业等荣誉称号。

公司立足自主品牌，坚持科技创新，是浙江省船用动力产业技术创新战略联盟理事长单位。以共性产业研究院为平台，产学研深度融合，不断提升企业创新能力，填补我国大功率“自主品牌”中速发动机的空白。作为第一完成人承担的“大功率中速船用柴油机关键技术研究及产业化”项目获国家科技进步二等奖，并持续承担国家、省、市重点项目数十项。产品先后获得部优、省优、国防重大科技成果奖和省、市科技进步一等奖等荣誉称号。

公司坚持“走出去，引进来”的发展战略，拥有全球化的销售和服务网络，提供全方位的海外工程、系统方案和总包业务，在海外已建造并投入运行主发电厂 300 余座，在非洲、亚洲等国家和地区设有本土公司，助推一带一路。

公司秉承“团结、务实、创新、争一流”的企业精神，坚持科技创新，深耕动力，系统集成，横向拓展，不断加大对新兴战略板块的投资力度，力争打造一个以海洋装备动力为核心，以精密机械装备为主导，国内领先国际一流的国际化产业集团。



百年中策

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宁波中策动力机电集团有限公司

公元	参股企业	总占地	资产总额
1900 年	20 家	50万 平方米	40亿 元

The company's predecessor, Shunji Machinery Factory, can be traced back to 1900. It was a key enterprise specializing in the production of marine diesel engines and diesel generator sets by the former Ministry of Machinery Industry of China. At present, it has developed into a composite industrial enterprise with high-power marine equipment power and energy generation systems as its core, vacuum technology and intelligent forming equipment manufacturing as its main focus, and international engineering, trade, and investment as its wings.

There are more than 20 companies controlled by the company (with equity participation), with a total asset value of 4 billion yuan. The company is one of the first high-tech enterprises in the country, with a National Enterprise Technology Center, a National Postdoctor Research Workstation, and a Provincial Key Enterprise Research Institute (one of the first batch). The company has successively won honorary titles such as Top 500 Enterprises in China's Machinery Industry, Leading Backbone Enterprises in Zhejiang Province's Industrial Industry, Key Enterprises in Zhejiang Province's Five First Batches, and Top 100 Comprehensive Enterprises in Ningbo City.

The company is based on independent brands and adheres to technological innovation. It is one of the chairman units of the Zhejiang Marine Power Industry Technology Innovation Strategic Alliance. The company uses the Common Industry Research Institute as a platform to deeply integrate industry, academia, and research, continuously improve enterprise innovation capabilities, and fill the gap in the field of high-power "independent brand" medium speed engines in China. The company, as the first author, completed the research and industrialization of key technologies for high-power medium speed marine diesel engines, which won the second prize of the National Science and Technology Progress Award, and has continued to undertake dozens of national, provincial, and municipal key projects. The company's products have successively won honors such as Ministry Excellent, Provincial Excellent, National Defense Major Science and Technology Achievement Awards, and Provincial and Municipal Science and Technology Progress First Prize.

Adhering to the development strategy of "going out and bringing in", the company has a global sales and service network, provides a full range of overseas projects, system solutions and turnkey services, has built and put into operation more than 300 major power plants overseas, and has set up local companies in countries and regions such as Africa and Asia to boost the the “Belt and Road” Initiative.

The company adheres to the corporate spirit of "unity, pragmatism, innovation, and striving to become a first-class enterprise", adheres to technological innovation, deeply cultivates power, system integration, and horizontal expansion, continuously increases investment in emerging strategic areas, and strives to build an international industrial group that is leading domestically and internationally, with marine equipment power as the core and precision mechanical equipment as the leading product.

N1

MARINE DIESEL ENGINE

船用柴油机

C.S.I. POWER

产品选型

PRODUCT SELECTION

NV32/40船用柴油机
NL9340船用柴油机
NL8340船用柴油机
NL6340船用柴油机
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NL6210船用柴油机
N8210船用柴油机
N6210船用柴油机

船用柴油机概况

Overview Of Marine Diesel Engines

主要生产型号为：N170、N210、N230、G300、N300、NL300、GN320、DN320、DN330、DN340、NL340、NL340CR、NV32/40 的中速船用柴油机，产品功率覆盖 184kW~9000kW。

The main production models are N170、N210、N230、G300、N300、NL300、GN320、DN320、DN330、DN340、NL340、NL340CR、NV32/40 medium speed Marine diesel engine, and the product power covers 184kW~9000kW.

所有船用产品完全符合国际海事组织（IMO）Teir II 排放要求；满足 CCS 的无石棉要求，并可向用户提供《无石棉声明》。

All Marine products completely conform to the international maritime organization (IMO) Teir II emissions requirements; conform to the requirements of CCS about no asbestos and "no asbestos statement" can be provided to users.

可以根据机舱布置需要提供左、右主机，增压器可以提供前、后端布置；同型号柴油机可以根据螺旋桨的转向需要提供顺时针转向和逆时针转向（面对飞轮端）的主机。

The starboard engine and port engine can be provided according to the layout of the engine room, and the supercharger can provide the fore end and aft. end layout. The same type of diesel engine can turn clockwise and anticlockwise (facing the flywheel end) according to the direction of rotation of the propeller.

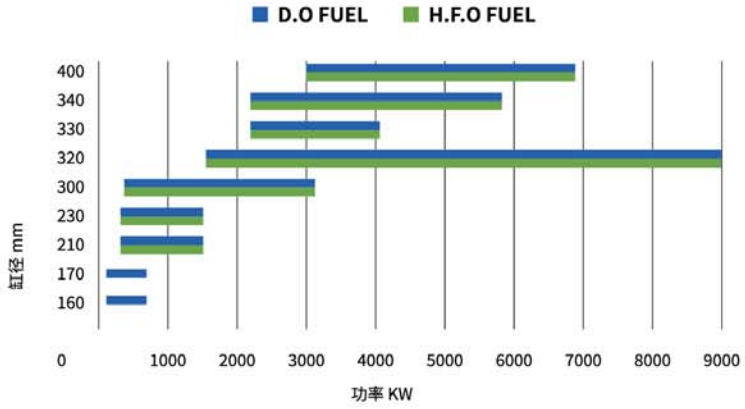


船用柴油机标定功率的标准环境状况按环境温度 45°C，环境压力 100kPa，相对湿度 60%，中冷器进水温度 32°C（无限航区标称环境）。若试验时环境状况与标准环境（或替代的基准环境状况）不符，其功率按 GB/T6072.1-2000 或 ISO3046.1-1995 进行修正。

Standard environmental conditions according to the environmental temperature 45 °C, the environment 100 kpa pressure, relative humidity 60%, cooling water temperature 32 °C (world-wide nominal environment).If the environmental conditions are not in conformity with the standard environment (or the substituted baseline environment), the power shall be modified by GB/ t6072.1-2000 or ISO3046.1-1995.

燃油消耗率数值以 g/kW•h 为单位，所以燃油低热值为 42700kJ/kg 标准环境状况按环境温度 25°C，大气压力 100kPa，相对湿度 30%，中冷器进水温度 25°C。若试验时环境状况与标准环境（或替代的基准环境状况）不符，其功率按 GB/T6072.1-2000 或 ISO3046.1-1995 进行修正。

The fuel consumption rate is in g/kW•h, so the low calorific value of fuel is 42700kJ/kg; Standard environment according to the environmental temperature 25 °C, atmospheric pressure of 100 kpa, relative humidity 30%, cooling water temperature 25 °C.If the environmental conditions are not in conformity with the standard environment (or the substituted baseline environment), the power shall be modified by GB/ t6072.1-2000 or ISO3046.1-1995.



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技术结构特点
Technical Structure Features

330/340系列是我公司自主研发的新一代船用中速大功率柴油机。蕴含着多项专利技术和创新成果。

330/340 series diesel engine is a new generation of medium-speed high-power diesel engine by our company. It contains many patents and innovations.



机体采用龙门箱式机体结构刚度好；曲轴悬挂式安装，结构紧凑；主轴承采用侧拉螺栓与主轴承螺栓设计，轴线装配精度高；系统润滑油路、冷却水路、进气管路等均机体内加工或铸造成形，外观整洁，运行可靠安全。

The engine block is of the gantry box structure with high strength. Crankshaft is of suspension mounting with more compact. The main bearing adopts lateral bolt and main bearing bolt design, with high axis assembly precision. The lubricating oil piping, cooling water piping and air inlet piping are all machined or cast in the engine block, with neat appearance and safe operation.



气缸盖采用蠕墨铸铁铸造提高的强度，V型盆腔设计提高了结构刚度和抗冲击性；进排气接口同侧设计结构紧凑；气阀旋转机构，转阀器控制气阀每分钟转动4~9圈，清除阀线余碳，阀盘接触均匀；四根强力螺栓，液压拉伸安装，利于同侧气道优化布置。水冷阀座，降低阀座表面温度，避免Va、Na高温腐蚀；Nimonic80A材料排气阀，刮碳台阶设计。

The cylinder cover is strengthened with vermicular cast iron, and the structure rigidity and impact resistance are improved by V type inner cavity design. Rotocap: The valve is rotated between 4 and 9 cycle per minute to clean the residual carbon, to make the vavle contact even. Four cylinder head bolts are assembled by hydraulic jack to facilitate the optimization of the airway. The water-cooled seat is designed to reduce the surface temperature of the seat and avoid high temperature corrosion of Va and Na. The exhaust valve material adopts Nimonic80A and adopts the Carbon scraping step design.

缸套为磷铸铁厚壁结构，刚性好，变形小；表面氮化处理，提高劣质燃油适应性。湿式缸套，头部钻孔冷却，优化冷却性能，抑制低温硫化物腐蚀，提高了缸套使用寿命。缸套头部燃烧室设计有清洁环，与阶梯状活塞配合，清除了活塞头部积碳，减少磨损，提高了缸套使用寿命。同时也降低滑油消耗。

The cylinder liner is phosphorous cast iron thick wall structure, with better rigidity and smaller deformation. The surface of cylinder liner is with nitrogen treatment to improve the adaptability of inferior fuel. The wet cylinder liner is cooling with the top hole, optimize the cooling performance, inhibit the low temperature sulfide corrosion. The combustion chamber, top of the cylinder liner, is designed with a clean ring, which is combined with the piston to remove the carbon on the piston head and reduce the abrasion. Thus improving the service life of the cylinder liner, also reduces the oil consumption.fe of piston ring.



钢顶、铁裙组合活塞，增强了活塞组件抗应力冲击和热负荷的能力，延长了活塞的使用寿命，提高了工作可靠性。钢顶采用振荡冷却。锥顶与清洁环配合，保护缸套磨损，降低滑油消耗。中凸椭圆腰鼓型裙部，补偿燃烧微变。环槽激光淬火处理，使用寿命长。活塞环镀铬，表面陶瓷化处理，增强耐磨性，延长了活塞环寿命。

The steel crown casting skirt combination piston, enhanced the piston component to resist the stress impact and the thermal load capacity, extended the piston service life, improved the work reliability. The steel top adopts oscillating cooling. The cone top and the cleaning ring cooperate to protect the cylinder liner and reduce abrasion and the lubricating oil consumption. Middle convex oval waist drum skirt, compensation for combustion micro change. The ring groove is treated with laser quenching, the surface of piston ring is plated with chromium, and it is treated with ceramic treatment to enhance the wear resistance and prolong the service life of piston ring.



三段式船用连杆结构，吊缸时可不拆除连杆大头，降低吊缸高度；在检查连杆瓦时不用吊缸，降低劳动强度；便于后期维修。各段贴合面研磨处理，两套双头液压拉伸器同步紧固，结构安全可靠。

The three - section connecting rod is simple to lift piston and has low height of the lifting operation. Do not need lift piston when checking connecting rod bearing, reduce labor intensity. And it is convenient for maintenance. The connecting surface between the sections of the connecting rod is ground. The connecting rod is assembled by two sets of double - head hydraulic jack and its structure is safe and reliable.

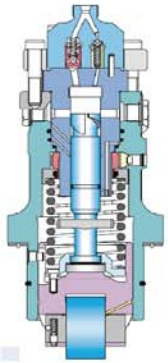
单缸分段式整体凸轮结构，每缸一段凸轮轴段，所有缸的凸轮轴轴颈相同，易于凸轮轴段的维护保养和轴承的更换，提升整机可维修性。函数凸轮型线，加速度连续，传动机构无冲击。燃油凸轮供油速率高，时间短，降低燃烧温度。传动机构采用杠杆式摇臂设计，优化凸轮轴与滚轮受力的状况，维修方便。

The camshaft is a sectional structure, each cylinder with a same diameters camshaft, which facilitates the replacement of bearings, and improves the maintainability of the camshaft and the whole engine. The function cam profile makes the acceleration continuous and the transmission mechanism has no impact. Fuel oil cam has high fuel oil feed rate, short feed time and low combustion temperature. The driving mechanism adopts lever type rocker arm design, while optimizing the stress condition of camshaft and roller, making the maintenance convenient.

高强度合金钢连续纤维锻造曲轴，并调质处理，增加了曲轴的结构强度。各缸平衡配重，自由端硅油减振器安装，增加了柴油机运行的稳定性，有效衰减曲轴扭转振动应力。合理的油孔布置利于油膜形成，延长轴瓦使用寿命。

High strength alloy steel continuous fiber forging crankshaft with hardening and tempering, increase the structure strength of crankshaft. The balance weight of each crank and the installation of the free end silicon oil damper increase the stability of the engine, and effectively attenuate the torsional vibration stress of the crankshaft. Reasonable oil hole arrangement is beneficial to the formation of oil film, extending the service life of the bearing.





喷油系统 | Fuel injection system

喷油泵采用整体式等压出油阀高压油泵，各缸独立回油，利于重油温度稳定；喷射压力高，最高压力达200MPa，防止低负荷穴蚀与高负荷二次喷射，降低NOx。柱塞防咬、防蚀镀层处理，能更好的适应380Cst重油使用。

The oil injection pump adopts the high pressure oil pump with constant pressure outlet valve, each cylinder independently return oil, it' s good for the heavy oil temperature stability. High injection pressure with maximum pressure up to 200MPa, prevent low-load cavitation erosion and high load secondary injection, and reduce NOx. Plunger anti - seizure, anti - corrosion coating treatment, can better adapt to 380Cst heavy oil use.

喷油器采用高起阀压力380bar，油束雾化充分。缸盖滑油直接冷却；合适的喷孔参数，优化燃烧性能，能更好的适应380Cst重油。

The fuel injector adopts a high valve pressure of 380bar, and the oil beam atomization is sufficient. Cylinder head with oil direct cooling. Suitable injection parameters and optimized combustion performance can make it better adapt to 380Cst heavy oil.



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NV32/40



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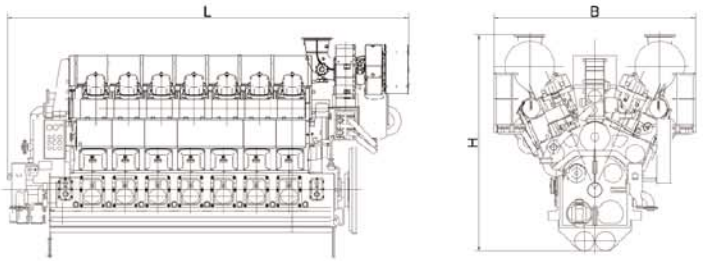
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	320×400 mm	单缸排量 Displacement/CYL	32.17 L
最低燃油消耗率 SFOC	181$^{+5\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	
曲轴转向 Rotate direction	顺时针（飞轮端视） Clockwise (aft. end)	排放 Emission	IMO Tier II、Tier III（配置 SCR）

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NV12-32/40	6000	720/750	2.59/2.49	6915×3370×4795	61000
NV14-32/40	7000	720/750	2.59/2.49	7545×3370×4795	68000
NV16-32/40	8000	720/750	2.59/2.49	8365×3730×4795	77000
NV18-32/40	9000	720/750	2.59/2.49	8990×3730×4795	85000

外形图 OUTLINE



NL9340



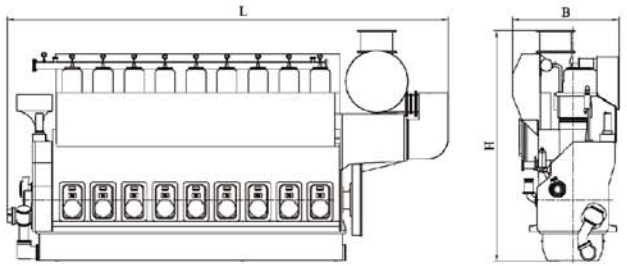
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL9340ZC	5737	660	2.66	7345×2460×4225	55000
NL9340ZC4	5590	660	2.59		
NL9340ZC8	5443	660	2.52		
NL9340ZC12	5222	650	2.46		
NL9340ZC14	5075	620	2.50		
NL9340ZC16	4800	650	2.26		
NL9340ZC20	4500	650	2.12		
NL9340ZC30	4045	620	2.00		
NL9340ZC38	3676	600	1.87		
NL9340ZC46	3310	600	1.69		
NL9340ZC62	2970	525	1.73		

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	340×480 mm	单缸排量 Displacement/CYL	43.58 L
最低燃油消耗率 SFOC	182$^{+3\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

外形图 OUTLINE



NL8340



百年中策

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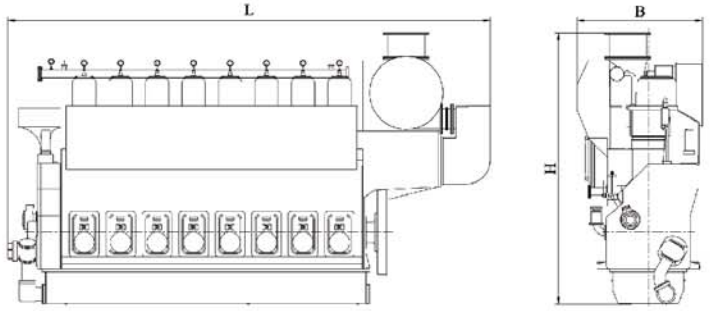
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL8340ZC	4500	600	2.54	6830×2540×4210	52000
NL8340ZC2	4500	620	2.50		
NL8340ZC4	4800	650	2.58		
NL8340ZC6	4640	650	2.46		
NL8340ZC8	4045	600	2.32		
NL8340ZC10	3529	550	2.31		
NL8340ZC12	2970	525	1.95		
NL8340ZC14	5369	660	2.8		
NL8340ZC20	5000	660	2.61		
NL8340ZC24	5149	660	2.69		
NL8340ZC28	5293	660	2.76		

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	340×480 mm	单缸排量 Displacement/CYL	43.58 L
最低燃油消耗率 SFOC	182$^{+3\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针（飞轮端视） Clockwise (aft. end)	排放 Emission	IMO Tier II、Tier III（配置 SCR）

外形图 OUTLINE



NL6340



百年中策

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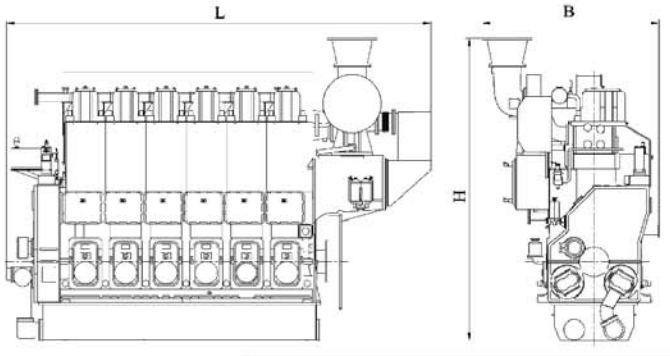
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	340×480 mm	单缸排量 Displacement/CYL	43.58 L
最低燃油消耗率 SFOC	182$^{+3\%}$ g/kW·h	最低滑油消耗率 SLOC	0.6 g/kW·h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针（飞轮端视） Clockwise (aft. end)	排放 Emission	IMO Tier II、Tier III（配置 SCR）

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL6340ZC	3600	650	2.54	5410×1860×3810	40000
NL6340ZC2	3552	650	2.51		
NL6340ZC4	3310	620	2.45		
NL6340ZC8	3236	600	2.48		
NL6340ZC12	3163	600	2.42		
NL6340ZC14	3089	600	2.36		
NL6340ZC18	2970	620	2.20		
NL6340ZC20	2795	600	2.14		
NL6340ZC24	2648	550	2.21		
NL6340ZC28	2574	550	2.15		
NL6340ZC30	2206	500	2.02		

外形图 OUTLINE



DN8340



百年中策

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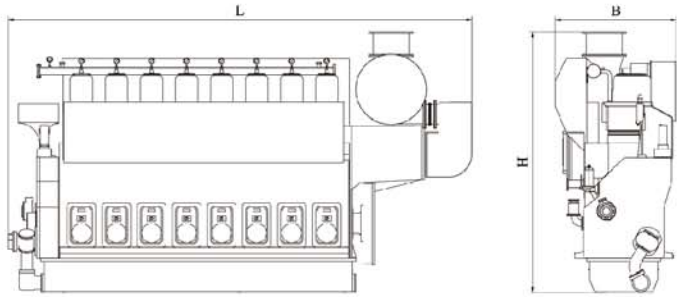
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DN8340ZC	4500	650	2.54	6810×1940×3835	48000
DN8340ZC2	4410	650	2.49		
DN8340ZC4	4045	620	2.40		
DN8340ZC6	3676	600	2.25		
DN8340ZC8	3310	600	2.03		
DN8340ZC10	2940	600	1.80		
DN8340ZC12	3900	600	2.38		
DN8340ZC16	2574	520	1.82		
DN8340ZC18	3310	520	2.34		

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	340×450 mm	单缸排量 Displacement/CYL	40.86 L
最低燃油消耗率 SFOC	182$^{+3\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针（飞轮端视） Clockwise (aft. end)	排放 Emission	IMO Tier II、Tier III（配置 SCR）

外形图 OUTLINE



DN8330



百年中策

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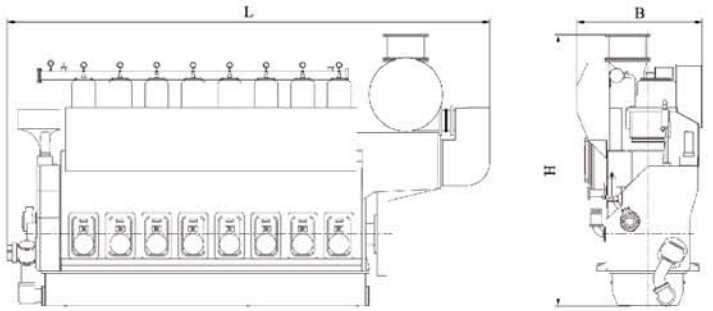
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	330×450 mm	单缸排量 Displacement/CYL	38.48L
最低燃油消耗率 SFOC	182+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DN8330ZC	3310	620	2.08	6825×1925×3795	46500
DN8330ZC2	4045	650	2.43		
DN8330ZC4	3676	650	2.20		
DN8330ZC6	3000	620	1.89		
DN8330ZC8	2970	620	1.87		
DN8330ZC10	3089	600	2.01		
DN8330ZC12	3163	600	2.05		
DN8330ZC14	3236	600	2.10		
DN8330ZC16	3310	600	2.15		
DN8330ZC18	3163	620	1.99		
DN8330ZC20	3552	650	2.13		

外形图 OUTLINE



DN6330



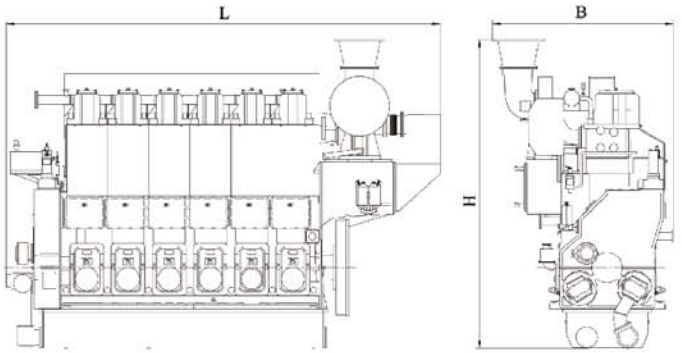
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	330×450 mm	单缸排量 Displacement/CYL	38.48L
最低燃油消耗率 SFOC	182$^{+3\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DN6330ZC	2206	550	2.08	5435×2260×3880	37500
DN6330ZC2	2206	600	1.91		
DN6330ZC4	2427	600	2.10		
DN6330ZC6	2648	600	2.29		
DN6330ZC8	2795	600	2.42		
DN6330ZC10	2206	620	1.85		
DN6330ZC12	2427	620	2.03		
DN6330ZC14	2574	620	2.16		
DN6330ZC16	2795	650	2.23		
DN6330ZC18	2970	650	2.37		
DN6330ZC20	2795	620	2.34		

外形图 OUTLINE



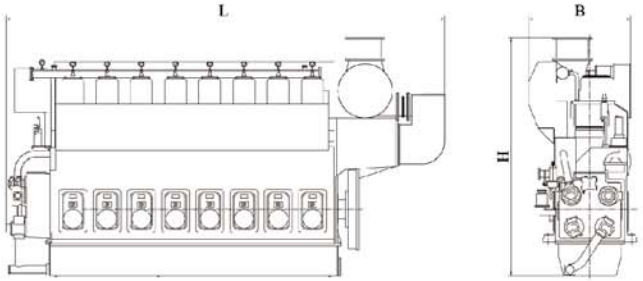
DN8320



型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DN8320ZC6B	3089	650	2.33	6085×2125×3315	34000
DN8320ZC8B	3310	675	2.41		
DN8320ZC10B	2648	600	2.17		
DN8320ZC12B	2795	630	2.18		
DN8320ZC14B	2970	650	2.24		

外形图 OUTLINE



基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	320×380 mm	单缸排量 Displacement/CYL	30.56L
最低燃油消耗率 SFOC	195+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2600 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)



百年中策

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基本参数 GENERAL DATA

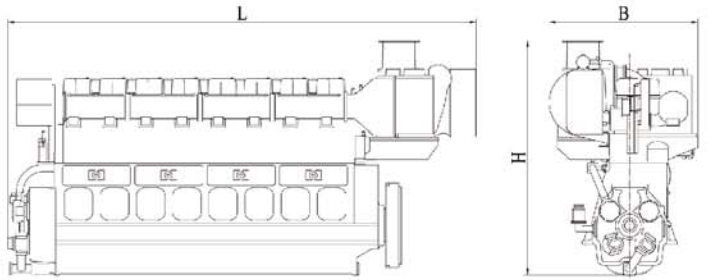
缸径×行程 Bore×Stroke	320×380 mm	单缸排量 Displacement/CYL	30.56L
最低燃油消耗率 SFOC	195+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	压缩比 Comp.ratio	13
曲轴转向 Rotate direction	右机顺时针（飞轮端视） Starboad CW(aft. end)	吊缸高度 Piston Lifting height	2600 mm
	左机逆时针（飞轮端视） Port CCW(aft. end)	排放 Emission	IMO Tier II、Tier III（配置 SCR）

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
GN8320ZC GN8320ZC1	2206	600	1.8	6175×1790×2940	27000
GN8320ZC2B GN8320ZC3B	2500	600	2.05	6210×1755×2950	
GN8320ZC4B GN8320ZC5B	2795	630	2.18	6210×1755×2950	
GN8320ZC6B GN8320ZC7B	3089	650	2.33	6085×2135×3040	
GN8320ZC12B GN8320ZC13B	2648	600	2.17	6210×1755×2950	
GN8320ZC14B GN8320ZC15B	2970	650	2.24	6085×2135×3040	

※ 说明:GN8320ZC*B型号中"*"偶数的右机, 奇数的为左机。

外形图 OUTLINE



GN6320



型谱表 SPECIFICATION

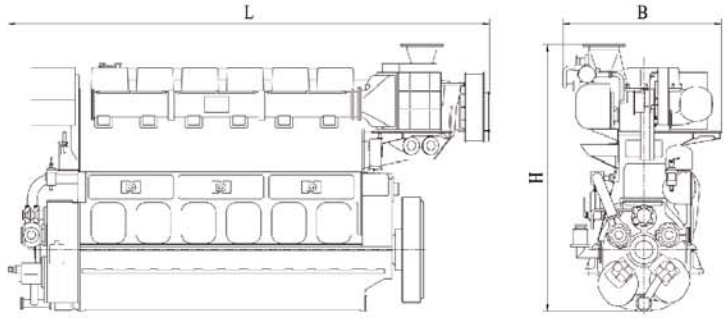
型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
GN6320ZC2B GN6320ZC3B	735	600	0.8	5020×1580×2780	22000
GN6320ZC4B GN6320ZC5B	1323	550	1.57		
GN6320ZC6B GN6320ZC7B	1323	600	1.44		
GN6320ZC12B GN6320ZC13B	1471	600	1.6		
GN6320ZC14B GN6320ZC15B	1618	600	1.77		

※ 说明:GN6320ZC*B型号中"*"偶数的右机, 奇数的为左机。

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	320×380 mm	单缸排量 Displacement/CYL	30.56L
最低燃油消耗率 SFOC	195+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	压缩比 Comp.ratio	13
曲轴转向 Rotate direction	右机顺时针(飞轮端视) Starboad CW(aft. end)	吊缸高度 Piston Lifting height	2600 mm
	左机逆时针(飞轮端视) Port CCW(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

外形图 OUTLINE



NL8300



百年中策

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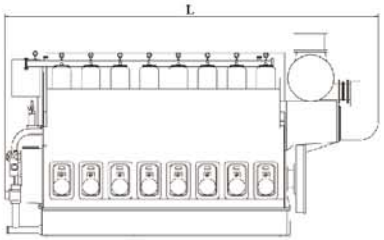
基本参数 GENERAL DATA

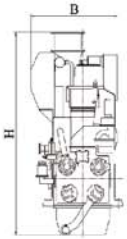
缸径×行程 Bore×Stroke	300×420 mm	单缸排量 Displacement/CYL	29.67L
最低燃油消耗率 SFOC	180+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2400 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL8300ZC	3840	750	2.59	6560×1650×3960	40000
NL8300ZC2	3720	750	2.51		
NL8300ZC4	3676	750	2.48		
NL8300ZC6	3552	750	2.39		
NL8300ZC10	3310	750	2.23		
NL8300ZC12	3236	750	2.18		
NL8300ZC14	3089	750	2.08		
NL8300ZC16	2941	750	1.98		
NL8300ZC46	2795	720	1.96		
NL8300ZC48	2648	720	1.86		
NL8300ZC50	2500	720	1.75		
NL8300ZC72	2427	600	2.04		
NL8300ZC76	2206	600	1.86		
NL8300ZC78	2132	600	1.80		
NL8300ZC80	2000	600	1.68		
NL8300ZC92	1765	500	1.78		
NL8300ZC94	1618	500	1.64		
NL8300ZC96	1470	500	1.49		
NL8300ZC100	4000	780	2.59		
NL8300ZC102	3900	780	2.53		

外形图 OUTLINE





NL6300



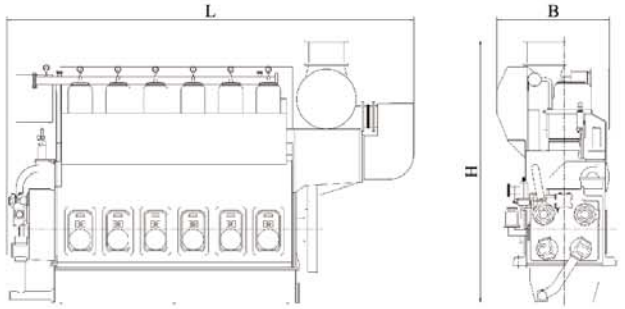
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	300×420 mm	单缸排量 Displacement/CYL	29.67L
最低燃油消耗率 SFOC	180+3% g/kW·h	最低滑油消耗率 SLOC	0.6 g/kW·h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2600 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL6300ZC	2941	750	2.64	5455×1900×3825	31500
NL6300ZC4	2795	750	2.51		
NL6300ZC8	2648	750	2.38		
NL6300ZC10	2574	750	2.31		
NL6300ZC76	2500	650	2.59		
NL6300ZC78	2427	650	2.52		
NL6300ZC82	2206	650	2.29		
NL6300ZC86	2100	650	2.18		
NL6300ZC124	2000	600	2.25		
NL6300ZC132	1765	600	1.98		
NL6300ZC172	1470	500	1.98		
NL6300ZC190	3000	780	2.59		

外形图 OUTLINE



N8300



百年中策

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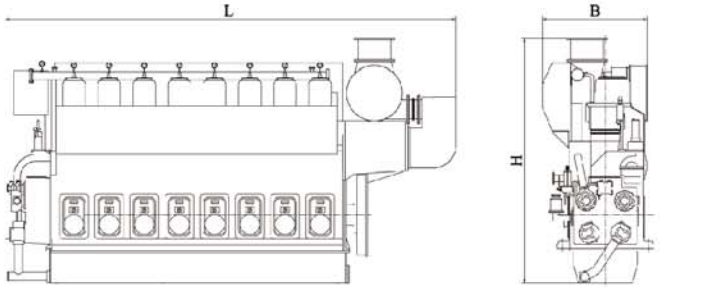
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	300×380 mm	单缸排量 Displacement/CYL	26.87L
最低燃油消耗率 SFOC	195+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2600 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N8300ZC	1103	500	1.23	6360×1640×3395	30000
N8300ZC2	1323	500	1.48		
N8300ZC4	1470	500	1.64		
N8300ZC6	1618	500	1.81		
N8300ZC8	1765	550	1.79		
N8300ZC10	2000	600	1.86		
N8300ZC12	2206	600	2.05		
N8300ZC14	2354	650	2.02		
N8300ZC16	2500	650	2.15		
N8300ZC18	2794	720	2.17		
N8300ZC20	2941	750	2.19		
N8300ZC22	3089	750	2.3		
N8300ZC26	2648	650	2.27		
N8300ZC134	2574	630	2.28		
N8300ZC138	2427	630	2.15		
N8300ZC140	2354	630	2.09		
N8300ZC180	1912	600	1.78		
N8300ZC190	1838	550	1.87		

外形图 OUTLINE





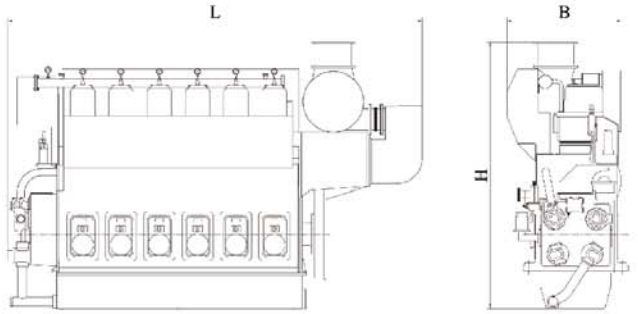
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6300ZCA	735	500	1.09		
N6300ZC6	1103	500	1.64		
N6300ZC16	1470	600	1.82		
N6300ZC18	1323	550	1.79		
N6300ZC26	1470	750	1.46		
N6300ZC28	1618	750	1.64		
N6300ZC32	1765	750	1.75	5430×1640×3250	24800
N6300ZC34	1800	750	1.79		
N6300ZC36	1838	750	1.83		
N6300ZC40	1912	750	1.90		
N6300ZC44	2000	750	1.99		
N6300ZC48	2206	750	2.19		
N6300ZC54	2100	750	2.09		

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	300×380 mm	单缸排量 Displacement/CYL	26.87L
最低燃油消耗率 SFOC	195$^{+3\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	吊缸高度 Piston Lifting height	2600 mm
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、国二

外形图 OUTLINE



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G8300



基本参数 GENERAL DATA

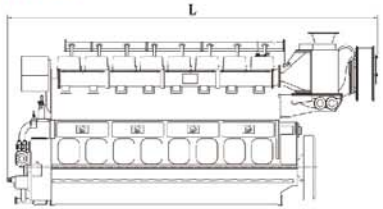
缸径×行程 Bore×Stroke	300×380 mm	单缸排量 Displacement/CYL	26.84L
最低燃油消耗率 SFOC	195+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	压缩比 Comp.ratio	13
曲轴转向 Rotate direction	右机顺时针（飞轮端视） Starboad CW(aft. end)	吊缸高度 Piston Lifting height	2600 mm
	左机逆时针（飞轮端视） Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

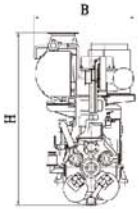
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
G8300ZC6B G8300ZC7B	1471	500	1.65	5950×1575×2875	26000
G8300ZC6BH G8300ZC7BH	1500	500	1.67		
G8300ZC6Bs G8300ZC7Bs	1471	550	1.49		
G8300ZC16B G8300ZC17B	2000	600	1.86	6300×1725×2940	
G8300ZC16Bs G8300ZC17Bs	2000	575	1.94		
G8300ZC18B G8300ZC19B	1765	550	1.79	5950×1575×2875	
G8300ZC20B G8300ZC21B	1765	500	1.97		
G8300ZC22B G8300ZC23B	2000	550	2.03	6300×1725×2940	
G8300ZC30B G8300ZC31B	2206	600	2.05		
G8300ZC32B G8300ZC33B	2427	630	2.15		
G8300ZC68B G8300ZC69B	2500	650	2.15		
G8300ZC72B G8300ZC73B	2648	650	2.28		

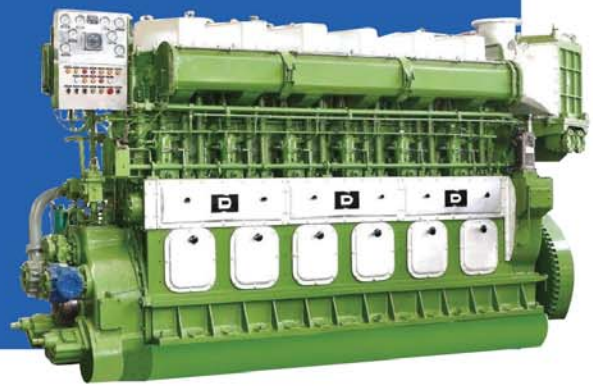
※ 说明:G8300ZC*B型号中"*"偶数的右机, 奇数的为左机。

外形图 OUTLINE





G6300



基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	300×380 mm	单缸排量 Displacement/CYL	26.84L
最低燃油消耗率 SFOC	195+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	压缩空气 Compressed air	压缩比 Comp.ratio	13
曲轴转向 Rotate direction	右机顺时针（飞轮端视） Starboad CW(aft. end)	吊缸高度 Piston Lifting height	2600 mm
	左机逆时针（飞轮端视） Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
G6300ZCA G6300ZCA1	735	500	1.10	5020×1580×2780	19500
G6300ZCB G6300ZC1B	750	400	1.4		
G6300ZCBa G6300ZCBa1	662	400	1.23		
G6300ZC6B G6300ZC7B	1103	500	1.65		
G6300ZC8B G6300ZC9B	993	500	1.48		
G6300ZC10B G6300ZC11B	971	428	1.69		
G6300ZC12B G6300ZC13B	882	400	1.65		
G6300ZC14B G6300ZC15B	551	400	1.02		
G6300ZC16B G6300ZC17B	1471	600	1.82		
G6300ZC16Bs G6300ZC17Bs	1471	575	1.91		

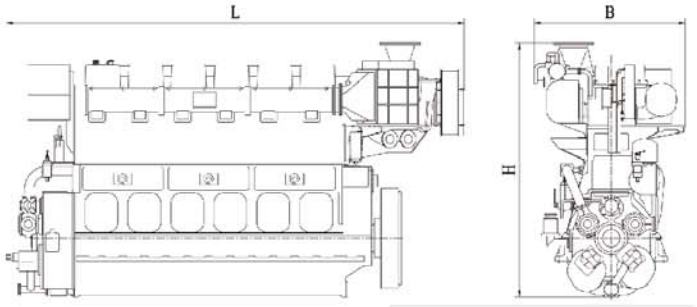
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型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
G6300ZC18B G6300ZC19B	1323	550	1.79	5020×1580×2780	19500
G6300ZC20B G6300ZC21B	1323	600	1.65		
G6300ZC26B G6300ZC27B	1470	750	1.46	5010×1824×2790	
G6300ZC28B G6300ZC29B	1618	750	1.61		
G6300ZC32B G6300ZC33B	1765	750	1.75		
G6300ZC34B G6300ZC35B	1800	750	1.79		
G6300ZC38B G6300ZC39B	1900	750	1.89		
G6300ZC44B G6300ZC45B	2000	750	1.99		
G6300ZC48B G6300ZC49B	2206	750	2.19		
G6300ZC54B G6300ZC55B	2100	750	2.09		

※ 说明:G6300ZC*B型号中"*"偶数的右机,奇数的为左机。

外形图 OUTLINE





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型谱表 SPECIFICATION

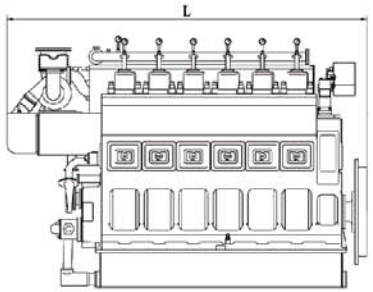
型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6230ZC N6230ZC1	1470	1000	2.31	4005×1620×2740	13500
N6230ZC4 N6230ZC5	1323	1000	2.08		
N6230ZC8 N6230ZC9	1250	1000	1.96		
N6230ZC12 N6230ZC13	1213	1000	1.91		
N6230ZC16 N6230ZC17	1160	1000	1.82		
N6230ZC20 N6230ZC21	1103	830	2.09		
N6230ZC26 N6230ZC27	1029	1000	1.61		
N6230ZC30 N6230ZC31	1000	750	2.10		
N6230ZC38 N6230ZC39	993	1000	1.56		
N6230ZC50 N6230ZC51	882	750	1.85		
N6230ZC56 N6230ZC57	809	900	1.41		
N6230ZC66 N6230ZC67	735	750	1.54		

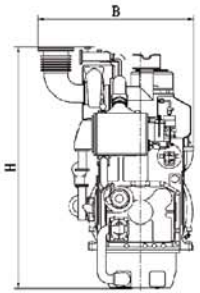
※ 说明:N6230ZC *型号中"*"偶数的右机, 奇数的为左机。

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	225×320 mm	单缸排量 Displacement/CYL	12.72 L
最低燃油消耗率 SFOC	185+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	空气马达 Compressed air mator	压缩比 Comp.ratio	15
曲轴转向 Rotate direction	右机顺时针(飞轮端视) Starboad CW(aft. end)	吊缸高度 Piston Lifting height	1650 mm
	左机逆时针(飞轮端视) Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

外形图 OUTLINE





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NL6210



基本参数 GENERAL DATA

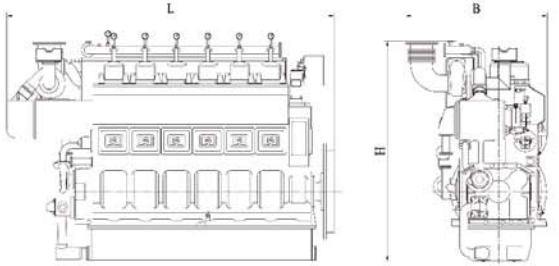
缸径×行程 Bore×Stroke	210×320 mm	单缸排量 Displacement/CYL	10.56 L
最低燃油消耗率 SFOC	184+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	空气马达 Compressed air mator	压缩比 Comp.ratio	15
曲轴转向 Rotate direction	右机顺时针（飞轮端视） Starboad CW(aft. end)	吊缸高度 Piston Lifting height	1650 mm
	左机逆时针（飞轮端视） Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL6210ZC NL6210ZC1	1250	1000	2.37		
NL6210ZC2 NL6210ZC3	1213	1000	2.30		
NL6210ZC4 NL6210ZC5	1200	1000	2.27		
NL6210ZC6 NL6210ZC7	1160	1000	2.20		
NL6210ZC8 NL6210ZC9	1103	1000	2.09		
NL6210ZC10 NL6210ZC11	1029	1000	1.95		
NL6210ZC18 NL6210ZC19	993	1000	1.88		
NL6210ZC20 NL6210ZC21	956	1000	1.81	4040×1520×2715	13000
NL6210ZC24 NL6210ZC25	882	1000	1.67		
NL6210ZC30 NL6210ZC31	809	900	1.70		
NL6210ZC36 NL6210ZC37	735	830	1.68		
NL6210ZC40 NL6210ZC41	720	750	1.82		
NL6210ZC50 NL6210ZC51	662	720	1.74		
NL6210ZC52 NL6210ZC53	610	720	1.60		
NL6210ZC56 NL6210ZC57	551	750	1.39		

※ 说明：NL6210ZC *型号中“*”偶数的右机，奇数的为左机。

外形图 OUTLINE



N8210



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型谱表 SPECIFICATION

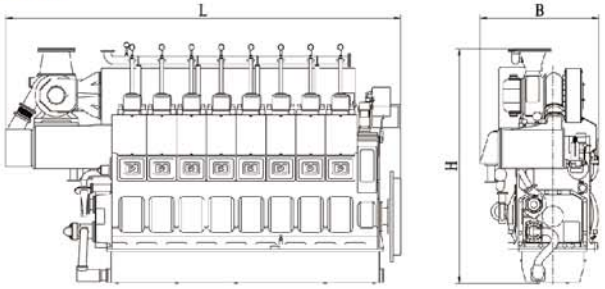
型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N8210ZC2 N8210ZC3	588	600	1.415	4720×1415×2870	16500
N8210ZC6 N8210ZC7	882	720	1.769		
N8210ZC8 N8210ZC9	735	750	1.415		
N8210ZC10 N8210ZC11	882	750	1.698		
N8210ZC12 N8210ZC13	1000	750	1.925	4680×1415×2890	
N8210ZC14 N8210ZC15	1103	750	2.124	4680×1415×2890	
N8210ZC16 N8210ZC17	1000	830	1.74		
N8210ZC18 N8210ZC19	1103	830	1.919		
N8210ZC22 N8210ZC23	1323	1000	1.91		
N8210ZC24 N8210ZC25	1470	1000	2.123		

※ N8210ZC*型号中"*"偶数的右机, 奇数的为左机。

基本参数 GENERAL DATA

缸径×行程 Bore×Strokee	210×300 mm	单缸排量 Displacement/CYL	10.39L
最低燃油消耗率 SFOC	185+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	空气马达 Compressed air mator	压缩比 Comp.ratio	15
曲轴转向 Rotate direction	右机顺时针(飞轮端视) Starboad CW(aft. end)	吊缸高度 Piston Lifting height	1650 mm
	左机逆时针(飞轮端视) Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

外形图 OUTLINE



N6210



基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	210×300 mm	单缸排量 Displacement/CYL	10.39L
最低燃油消耗率 SFOC	185+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
起动方式 Start method	空气马达 Compressed air mator	压缩比 Comp.ratio	15
曲轴转向 Rotate direction	右机顺时针（飞轮端视） Starboad CW(aft. end)	吊缸高度 Piston Lifting height	1650 mm
	左机逆时针（飞轮端视） Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

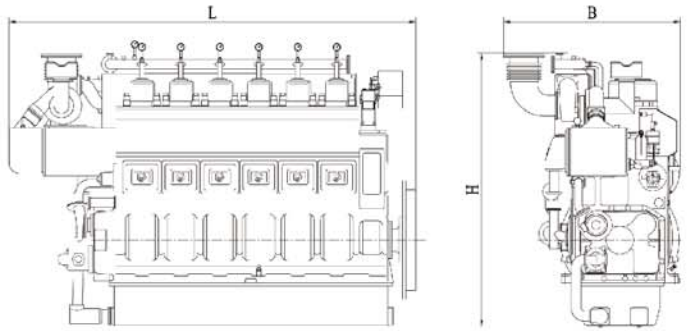
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6210ZC N6210ZC1	396	600	1.27	3710×1600×2580	12500
N6210ZC2 N6210ZC3	662	720	1.77		
N6210ZC4 N6210ZC5	662	750	1.7		
N6210ZC6 N6210ZC7	1000	900	2.14	3750×1590×2635	
N6210ZC8 N6210ZC9	1103	1000	2.12		
N6210ZC10 N6210ZC11	441	600	1.41	3710×1600×2580	
N6210ZC12 N6210ZC13	551	750	1.42		
N6210ZC14 N6210ZC15	735	830	1.71		
N6210ZC16 N6210ZC17	809	900	1.73		
N6210ZC18 N6210ZC19	882	1000	1.7		
N6210ZC20 N6210ZC21	956	900	2.05	3750×1590×2635	
N6210ZC22 N6210ZC23	1029	1000	1.98		

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6210ZC24	610	720	1,63	3710×1600×2580	12500
N6210ZC25					
N6210ZC26	374	600	1.2		
N6210ZC27					
N6210ZC28	882	900	1.89		
N6210ZC29					
N6210ZC30	1000	1000	1.93	3750×1590×2635	
N6210ZC31					
N6210ZC32	993	1000	1.91		
N6210ZC33					
N6210ZC34	956	1000	1.84		
N6210ZC35					
N6210ZC36	809	1000	1.56	3710×1600×2580	
N6210ZC37					
N6210ZC38	400	600	1.28		
N6210ZC39					
N6210ZC52	720	750	1.85		
N6210ZC53					

※ N6210ZC *型号中"*"偶数的右机, 奇数的为左机。

外形图 OUTLINE





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N2

MARINE COMMON RAIL DIESEL ENGINE
船用共轨柴油机

C.S.I. POWER

产品选型
PRODUCT SELECTION

NL8340CR船用柴油机

NL340CR产品简介
Product introduction

NL340CR 系列是我公司自主研发的新一代船用中速大功率共轨柴油机。蕴含着多项专利技术和创新成果。NL340CR 采用高压共轨系统，燃油喷射控制精度高，可以柔性调节喷油压力和喷油正时。采用新一代高效、高压比增压器，可提供高达5.8的压比和65%的增压效率。并加强了整体结构强度，单缸功率最大可达671kW。

NL340CR series is a new generation of medium speed marine high-power electronically controlled high-pressure common rail diesel engine independently developed by our company. It contains a number of patented technologies and innovative achievements: the electronically controlled high-pressure common rail fuel injection system is used to precisely control the fuel injection, which can flexibly adjust the injection pressure, injection timing and injection quantity; A new generation of high efficiency and high pressure ratio supercharger is adopted, which can provide a pressure ratio of 5.8 and a supercharging efficiency of 65%; The overall structural strength is strengthened, the maximum power of a single cylinder can reach 671kW. It has in-line 6-cylinder, 8-cylinder and 9-cylinder models.

NL340CR 系列柴油机满足船级社规范要求，并完全符合国际海事组织（IMO）规定的 Tier III 排放标准（配置 SCR）。适用于江海直达船舶和各类海洋工程船，集装箱船，多用途散货船，油品、化学品船，甲板运输船的主机。

NL340CR series diesel engine meets the requirements of classification society and Tier III emission standard (equipped with SCR) specified by International Maritime Organization (IMO). It is applicable to the main engines of river sea direct ships and various marine engineering ships, container ships, multi-purpose bulk carriers, oil and chemical tankers, and deck transport ships.



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NL340CR技术结构特点
NL340CR Technical Structure Features

节能环保 Energy saving and environmental protection

- 采用高压共轨系统，柔性控制喷油速率变化，实现理想喷油规律，实现预喷射和多次喷射，既可降低柴油机 NOx，又能保证优良的动力性和经济性。

  High pressure common rail system is adopted to flexibly control the change of fuel injection rate, realize ideal fuel injection law, realize pre injection and multiple injection, which can not only reduce NOx of diesel engine, but also ensure excellent power performance and economy.

- 缸套采用磷铸铁厚壁结构，刮碳环设计，有效的降低滑油消耗，并有效的减少缸套磨损，降低配件的消耗。

  The cylinder liner is of phosphor cast iron thick wall structure and carbon scraper ring design, which effectively reduces the consumption of lubricating oil, cylinder liner wear and accessories.

- 采用脉冲转换器排气系统，废气能量转换效率高，与高效、高压比增压器配合有效的降低油耗和大幅减少排放。

  The pulse converter exhaust system is adopted, which has high exhaust gas energy conversion efficiency, and can effectively reduce fuel consumption and emissions by cooperating with efficient and high-pressure supercharger.

- 最低燃油消耗率可达 178g/kW•h，最低滑油消耗率可达 0.6 g/kW•h；并可根据使用情况优化经济转速区间。

  The minimum fuel consumption rate can reach 178g+5%/kW • h, and the minimum oil consumption rate can reach 0.6 g/kW • h, and the economic speed range can be optimized according to the use situation.

- 可燃油 380 cSt 重油，降低使用成本。

  380 cSt heavy oil can be used, reducing the use cost.

- 满足国际海事组织（IMO）TierIII 排放要求（配置 SCR）。

  Meet the International Maritime Organization (IMO) Tier III emission requirements (with SCR).

安全可靠 Safe and reliable

- 采用龙门箱式机体、高强度合金钢连续纤维锻造曲轴，结构强度大，柴油机运行安全稳定。

  The gantry box body and continuous fiber forged high-strength alloy steel crankshaft are used to ensure the safe and stable operation of the diesel engine.

- 气缸盖采用蠕墨铸铁铸造提高的强度，V 型盆腔设计提高结构刚度和抗冲击性。

  The cylinder head adopts vermicular graphite cast iron to improve the strength, and the V-shaped basin design improves the structural rigidity and impact resistance.

- 钢顶、铁裙组合活塞，增强了活塞组件抗应力冲击和热负荷的能力，延长了活塞的使用寿命，提高了工作可靠性。

  The steel crown and iron skirt combined piston can enhance the ability of the piston components to resist stress and thermal load impact, extend the service life of the piston, and improve the working reliability.

- 采用新一代高效、高压比增压器，可提供高达 5.8 的压比和 65% 的增压效率，优化发动机的燃油效率的同时实现特殊运行工况下负荷变化时发动机的快速响应。

  A new generation of high efficiency and high pressure ratio supercharger is adopted, which can provide a pressure ratio of up to 5.8 and a supercharging efficiency of 65%, optimize the fuel efficiency of the engine and realize the rapid response of the engine when the load changes under specific operating conditions.

- 柴油机大修期大于 30000h。

  The overhaul period of diesel engine is more than 30000h.





NL340CR



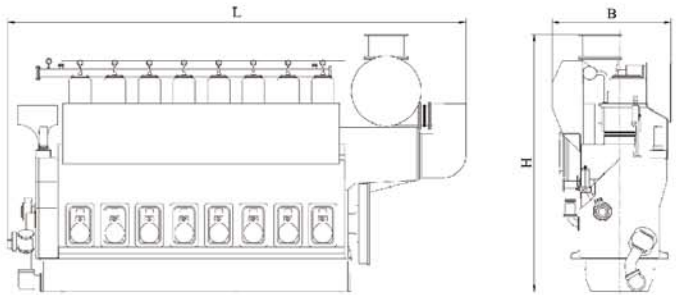
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	340×480 mm	单缸排量 Displacement/CYL	43.58L
最低燃油消耗率 SFOC	178+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
供油方式 Fuel supply	高压共轨 Common rail	起动方式 Start method	压缩空气 Compressed air
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
NL8340CRZC	4500	600			
NL8340CRZC2	5369	660			
NL8340CRZC4	4800	650			
NL8340CRZC6	4640	650			
NL8340CRZC8	4045	600			
NL8340CRZC12	2970	525			
NL8340CRZC14	4500	620		6830×2540×4225	52000
NL8340CRZC16	4854	650			
NL8340CRZC18	4928	660			
NL8340CRZC20	5000	660			
NL8340CRZC24	5149	660			
NL8340CRZC26	5296	660			
NL8340CRZC64	2970	620			

外形图 OUTLINE





N3

MARINE ELECTRIC INJECTION DIESEL ENGINE
船用电喷柴油机

C.S.I. POWER

产品选型
PRODUCT SELECTION

N6210E船用柴油机
N8170E船用柴油机
N6170E船用柴油机

N210E产品简介
Product introduction

N210E系列基于宁动N210产品成熟技术开发而来，外观整洁，模块化设计操作、维修简单，产品蕴含了多项专利技术与创新成果，是新一代紧凑型中速重载船用柴油机。采用电控单体泵喷油系统，燃油喷射控制精度高，可以柔性调节喷油压力和喷油正时。产品油耗低，燃油适用性强，全面适应低硫燃料油，且具备更好的耐用性与可靠性。大修周期大于30000h，可以更好地为渔船、工程船、内河航运、沿海航运及船舶辅机提供满足GB15097第二阶段和和IMO Tier II排放要求。

The N210E series is developed based on the mature technology of Ningdong N210 products, with a clean appearance, modular design, simple operation and maintenance. The product contains multiple patented technologies and innovative achievements, and is one of the new generation of compact medium-speed heavy-duty marine diesel engine. Adopting an electronic unit pump injection system, the fuel injection control accuracy is high, and the injection pressure and timing can be flexibly adjusted. The product has low fuel consumption, strong fuel applicability, comprehensive adaptability to low sulfur fuel oil, and better durability and reliability. The overhaul cycle is greater than 30000 hours, which can better meet the second phase of GB15097 and IMO Tier II emission requirements for fishing vessels, engineering vessels, inland waterway shipping, coastal shipping, and ship auxiliary machinery.



百年中策

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N210E技术结构特点
N210E Technical Structure Features

节能环保 Energy saving and environmental protection

- 采用电控单体泵喷油系统，柴油机各工况下准确的控制喷油提前角和喷油正时，并能自由灵活调整喷油量和喷油正时，实现燃油喷射的柔性控制。既可降低柴油机NOx，又能保证优良的动力性和经济性。

  Adopting an electronic unit pump injection system, the diesel engine accurately controls the injection timing and quantity under various operating conditions, and can flexibly adjust the injection advance angle to achieve flexible control. It can reduce emissions while ensuring excellent power and low cost.

- 缸套采用磷铸铁厚壁结构，刮碳环设计，有效的降低滑油消耗，并有效的减少缸套磨损，降低配件的消耗。

  The cylinder liner adopts a thick walled structure of phosphorus cast iron and a carbon scraper ring design, effectively reducing lubricating oil consumption, cylinder liner wear, and accessory consumption.

- 采用脉冲转换器排气系统，废气能量转换效率高，与高效、高压比增压器配合有效的降低油耗和大幅减少排放。

  Adopting a pulse converter exhaust system, the exhaust energy conversion efficiency is high, and in combination with efficient and high-pressure turbochargers, it effectively reduces fuel consumption and emissions.

- 最低燃油消耗率可达$182^{+5\%}$g/kW·h，最低滑油消耗率可达0.6g/kW·h；并可根据使用情况优化经济转速区间。

  The minimum fuel consumption rate can reach 182+5% g/kW·h, and the minimum lubricating oil consumption rate can reach 0.6 g/kW·h; and the economic speed range can be optimized based on usage.

- 满足GB15097第二阶段排放要求。

  It meets the second stage emission requirements of GB15097.

安全可靠 Safe and reliable

- 采用龙门箱式机体，可选配高强度合金钢连续纤维锻造曲轴，结构强度大，柴油机运行安全稳定。

  Adopting a gantry box body and optional high-strength alloy steel continuous fiber forged crankshaft, it has high structural strength and ensures safe and stable operation of the diesel engine.

- 气缸盖采用蠕墨铸铁铸造，V型盆腔结构，提高结构刚度和抗冲击能力。

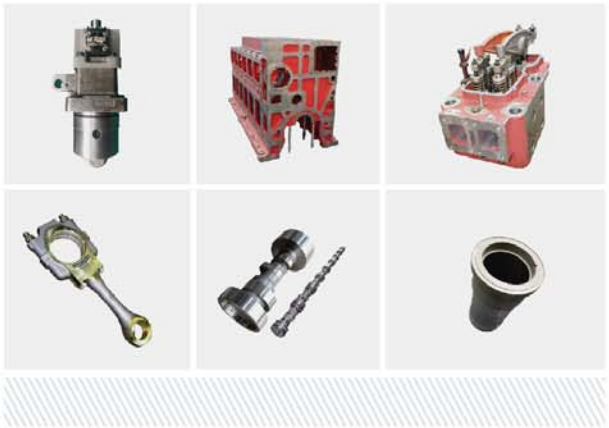
  The cylinder head is cast with vermicular graphite cast iron and a V-shaped cavity structure, improving structural stiffness and impact resistance.

- 高功率段版本采用钢顶、铁裙组合活塞，增强了活塞组件抗应力冲击和热冲击能力，延长了活塞的使用寿命，提高了工作可靠性。

  The high-power version adopts a combination of steel top and iron skirt pistons, which enhances the stress impact and thermal shock resistance of the piston components, prolongs the service life of the piston, and improves work reliability.

- 柴油机大修期大于30000h。

  The diesel engine overhaul period is greater than 30000 hours.



百年中策

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N210E



基本参数 GENERAL DATA

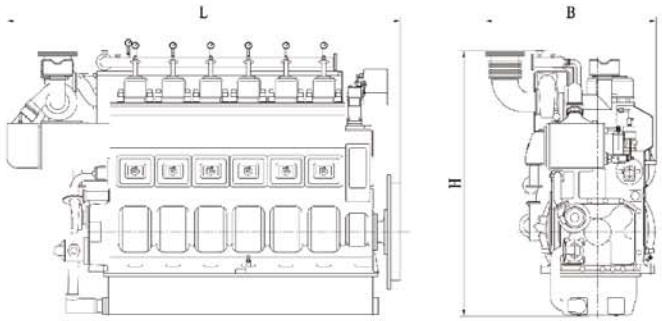
缸径×行程 Bore×Stroke	210×300 mm	单缸排量 Displacement/CYL	10.38L
最低燃油消耗率 SFOC	182+5% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
供油方式 Fuel supply	电控单体泵 EUP	压缩比 Comp.ratio	15
曲轴转向 Rotate direction	右机顺时针（飞轮端视） Starboad CW(aft. end)	吊缸高度 Piston Lifting height	1650 mm
	左机逆时针（飞轮端视） Port CCW(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6210EZC N6210EZC1	396	600	1.27	3710×1600×2580	12500
N6210EZC2 N6210EZC3	662	720	1.77		
N6210EZC4 N6210EZC5	662	750	1.70		
N6210EZC6 N6210EZC7	1000	900	2.14	3750×1590×2635	
N6210EZC8 N6210EZC9	1103	1000	2.12		
N6210EZC10 N6210EZC11	441	600	1.41	3710×1600×2580	
N6210EZC12 N6210EZC13	551	750	1.42		
N6210EZC14 N6210EZC15	735	830	1.71		
N6210EZC16 N6210EZC17	809	900	1.73		
N6210EZC18 N6210EZC19	882	1000	1.70		
N6210EZC20 N6210EZC21	956	900	2.05	3750×1590×2635	
N6210EZC22 N6210EZC23	1029	1000	1.98		
N6210EZC24 N6210EZC25	610	720	1,63	3710×1600×2580	
N6210EZC26 N6210EZC27	374	600	1.20		
N6210EZC28 N6210EZC29	882	900	1.89		
N6210EZC30 N6210EZC31	1000	1000	1.93	3750×1590×2635	
N6210EZC32 N6210EZC33	993	1000	1.91		
N6210EZC34 N6210EZC35	956	1000	1.84		
N6210EZC36 N6210EZC37	809	1000	1.56	3710×1600×2580	

※ 说明:N6210ZC *型号中"*"偶数的右机, 奇数的为左机。

外形图 OUTLINE



N8170E



百年中策

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基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	170×200 mm	单缸排量 Displacement/CYL	4.54L
最低燃油消耗率 SFOC	185+3% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
供油方式 Fuel supply	电控组合泵 ECAP	压缩比 Comp.ratio	14.5
曲轴转向 Rotate direction	右机逆时针（飞轮端视） Starboad CCW(aft. end)	起动方式 Start method	空气马达或电马达 Compressed air motor / Electric motor
	左机顺时针（飞轮端视） Port CW(aft. end)	排放 Emission	IMO Tier II、国二

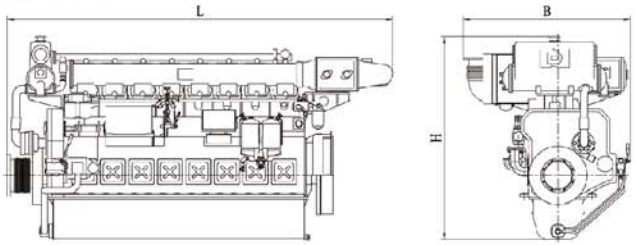
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N8170EZ$_L$C1 NZ8170EZ$_L$C1	441	1000	1.46	3180×1360×1680	3800
N8170EZ$_L$C2 NZ8170EZ$_L$C2	480	1200	1.32		
N8170EZ$_L$C3 NZ8170EZ$_L$C3	540	1350	1.32		
N8170EZ$_L$C4 NZ8170EZ$_L$C4	600	1500	1.32		
N8170EZ$_L$C5 NZ8170EZ$_L$C5	480	1000	1.58		
N8170EZ$_L$C6 NZ8170EZ$_L$C6	529	1200	1.46		
N8170EZ$_L$C7 NZ8170EZ$_L$C7	600	1350	1.47		
N8170EZ$_L$C8 NZ8170EZ$_L$C8	575	1350	1.41		
N8170EZ$_L$C9 NZ8170EZ$_L$C9	300	1000	0.992		
N8170EZ$_L$C10 NZ8170EZ$_L$C10	350	1000	1.157		

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N8170EZ$_L$C11 NZ8170EZ$_L$C11	400	1000	1.323	3180×1360×1680	3800
N8170EZ$_L$C12 NZ8170EZ$_L$C12	400	1200	1.102		
N8170EZ$_L$C13 NZ8170EZ$_L$C13	450	1200	1,24		
N8170EZ$_L$C14 NZ8170EZ$_L$C14	450	1350	1.10		
N8170EZ$_L$C15 NZ8170EZ$_L$C15	500	1500	1.10		
N8170EZ$_L$C16 NZ8170EZ$_L$C16	440	1000	1.45		
N8170EZ$_L$C17 NZ8170EZ$_L$C17	440	1200	1.21		

※ 说明:N*8170EZ$_L$C17型号中"*"为空的右机,为Z的左机。

外形图 OUTLINE





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百年中策

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N6170E



基本参数 GENERAL DATA

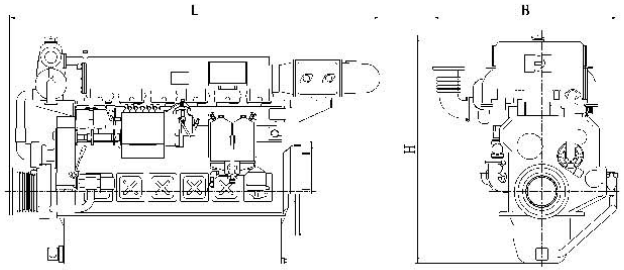
缸径×行程 Bore×Stroke	170×200 mm	单缸排量 Displacement/CYL	4.54L
最低燃油消耗率 SFOC	185+3% g/kW・h	最低滑油消耗率 SLOC	0.7 g/kW・h
供油方式 Fuel supply	电控组合泵 ECAP	压缩比 Comp.ratio	14.5
曲轴转向 Rotate direction	右机逆时针（飞轮端视） Starboad CCW(aft. end)	起动方式 Start method	空气马达或电马达 Compressed air motor / Electric motor
	左机顺时针（飞轮端视） Port CW(aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6170EZL.C1 NZ6170EZL.C1	220	1000	0.97	2730×1320×1670	3200
N6170EZL.C2 NZ6170EZL.C2	250	1000	1.02		
N6170EZL.C3 NZ6170EZL.C3	294	1000	1.29		
N6170EZL.C4 NZ6170EZL.C4	330	1000	1.459		
N6170EZL.C5 NZ6170EZL.C5	250	1200	0.918		
N6170EZL.C6 NZ6170EZL.C6	294	1200	1.08		
N6170EZL.C7 NZ6170EZL.C7	330	1200	1.212		
N6170EZL.C8 NZ6170EZL.C8	350	1200	1.286		
N6170EZL.C9 NZ6170EZL.C9	385	1200	1.414		
N6170EZL.C10 NZ6170EZL.C10	350	1350	1.157		
N6170EZL.C11 NZ6170EZL.C11	400	1350	1.306		

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6170EZ$_L$C12 NZ6170EZ$_L$C12	430	1350	1.404	2730×1320×1670	3200
N6170EZ$_L$C13 NZ6170EZ$_L$C13	400	1500	1,176		
N6170EZ$_L$C14 NZ6170EZ$_L$C14	450	1500	1.323		
N6170EZ$_L$C15 NZ6170EZ$_L$C15	225	1200	0.827		
N6170EZ$_L$C16 NZ6170EZ$_L$C16	210	1000	0.926		
N6170EZ$_L$C17 NZ6170EZ$_L$C17	300	1000	1.32		

外形图 OUTLINE





百年中策

www.ningdong.com

04

MARINE DUAL FUEL ENGINE

船用双燃料机

C.S.I. POWER

产品选型

PRODUCT SELECTION

DF6340船用双燃料机
DF6330船用双燃料机
DF6210E船用双燃料机

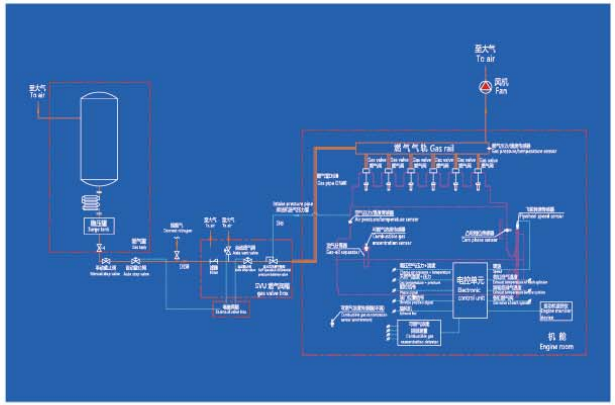
双燃料机概况
Overview Of Dual Fuel Engine

宁动牌双燃料系列发动机是在常规柴油机的基础上，自主研制的新一代节能 、环保型的中速发动机。以柴油或重油为引火燃料，天然气（甲烷）为主燃料的发动机，发动机可在燃油和燃气两种模式下转换。

Ningdong brand dual fuel series engine is a new generation of energy-saving and environment-friendly medium speed engine independently developed on the basis of conventional diesel engine. For engines with diesel or heavy oil as ignition fuel and natural gas (methane) as main fuel, the engine can be converted in fuel and gas modes.

可广泛应用于 LNG 运输船、渔船、长江航运、客货轮、工程船、天然气钻井平台和陆用电站等。

It can be widely used in LNG carriers, fishing boats, Yangtze River shipping, passenger and cargo ships, engineering ships, natural gas drilling platforms and land power plants.



双燃料机技术结构特点
Dual Fuel Engine Technical Structure Features

节能环保 Energy saving and environmental protection

- 减少氮氧化物、硫化物及微小颗粒物等有害物质排放；
  Reduce the emission of harmful substances such as nitrogen oxides, sulfides and micro particles;
- 满足国际海事组织 (IMO) TierII排放要求和中国海事组织第一、二阶段排放要求。
  Meet the International Maritime Organization (IMO) Tier II emission requirements and China Maritime Organization phase I and phase II emission requirements.
- 天然气替代率达到85%以上，节省运营成本；
  The replacement rate of natural gas reaches more than 85%, saving operation cost;

安全可靠 Safe and reliable

- 天然气进气管采用双层壁管结构，满足中国船机社规范安全系统要求；
  The natural gas inlet pipe adopts double-layer wall pipe structure, which meets the safety system requirements of the code of China Shipbuilding machinery society;
- 进、排气管装有防爆阀，快速释放压力；
  The air inlet and exhaust pipes are equipped with explosion-proof valves to quickly release pressure;
- 采用多点燃气喷射系统，精准控制燃气喷射正时，不产生回火现象；
  The multi-point gas injection system is adopted to accurately control the gas injection timing without tempering;
- 25%负荷以下可进入双燃料模式，满足低负荷加气需求，保证船舶的安全可靠运行。
  Dual fuel mode can be entered under 25% load to meet the gas filling demand of low load and ensure the safe and reliable operation of the ship.

智能化、数字化 Intelligent and digital

- 采用油气(柴油、天然气)双电控技术，实现对柴油、天然气喷射时间和喷射量的精确控制；

  The dual electronic control technology of oil and gas (diesel and natural gas) is adopted to accurately control the injection time and amount of diesel and natural gas;

- 燃油喷射系统采用电控单体泵，具有更好的调速特性；

  The fuel injection system adopts electronic control unit pump, which has better speed regulation characteristics;

- 可实时切换双燃料模式和纯柴油模式；

  Dual fuel mode and pure diesel mode can be switched in real time;

- 模块化控制、人机工程数字化显示。

  Modular control, ergonomic digital display.





DF6340



百年中策

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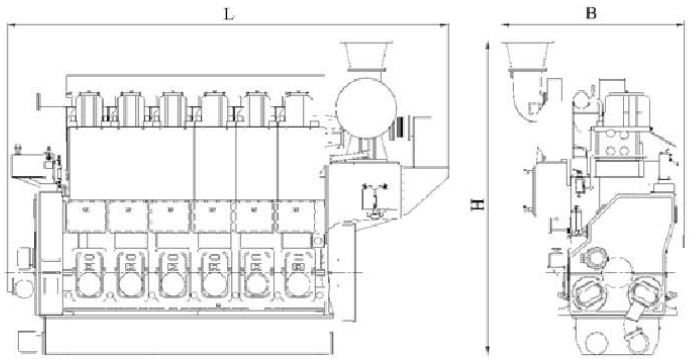
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	340×480 mm	单缸排量 Displacement/CYL	43.58L
最低燃油消耗率 SFOC	$182^{+5\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
燃料热耗率 Fuel heat rate	<8600KJ/kW・h(标定点 marking point)	替代率 Rate of substitution	≥85%(50%~100%额定负荷 rated load)
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DF6340ZC	3600	650	2.54	5410×1860×3810	40000
DF6340ZC2	3552	650	2.51		
DF6340ZC4	3310	620	2.45		
DF6340ZC8	3236	600	2.48		
DF6340ZC12	3163	600	2.42		
DF6340ZC14	3089	600	2.36		
DF6340ZC18	2970	620	2.20		
DF6340ZC20	2795	600	2.14		
DF6340ZC24	2648	550	2.21		
DF6340ZC28	2574	550	2.15		
DF6340ZC30	2206	500	2.02		

外形图 OUTLINE



DF6330



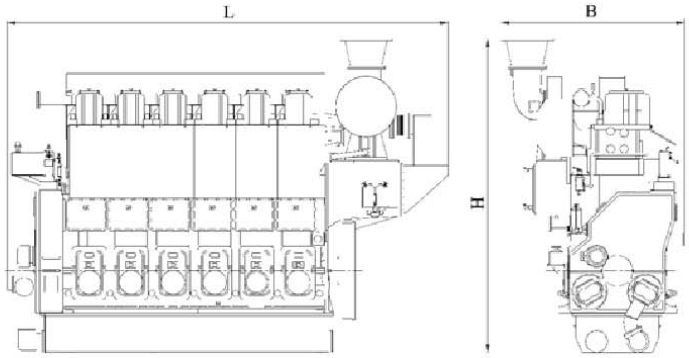
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	330×450 mm	单缸排量 Displacement/CYL	38.48L
最低燃油消耗率 SFOC	$182^{+5\%}$ g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
燃料热耗率 Fuel heat rate	<8600KJ/kW・h(标定点 marking point)	替代率 Rate of substitution	≥85%(50%~100%额定负荷 rated load)
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise(aft. end)	排放 Emission	IMO Tier II、Tier III(配置 SCR)

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DF6330ZC	2206	550	2.08	5435×2260×3880	37500
DF6330ZC2	2206	600	1.91		
DF6330ZC4	2427	600	2.10		
DF6330ZC6	2648	600	2.29		
DF6330ZC8	2795	600	2.42		
DF6330ZC10	2206	620	1.85		
DF6330ZC12	2427	620	2.03		
DF6330ZC14	2574	620	2.16		
DF6330ZC16	2795	650	2.23		
DF6330ZC18	2970	650	2.37		
DF6330ZC20	2795	620	2.34		

外形图 OUTLINE



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DF210E



基本参数 GENERAL DATA

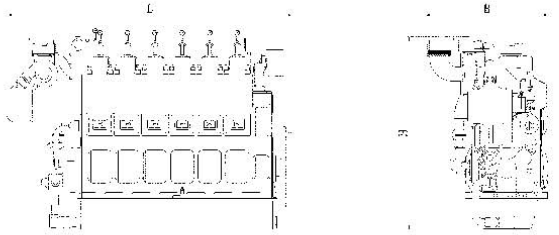
缸径×行程 Bore×Stroke	210×300 mm	单缸排量 Displacement/CYL	10.38L
最低燃油消耗率 SFOC	182+5% g/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
替代率 Rate of substitution	≥85%(50%~100%额定负荷 rated load)	技术路线 Technology roadmap	油气双电控 The dual electronic control technology of oil and gas
曲轴转向 Rotate direction	顺时针(飞轮端视) Clockwise (aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
DF6210EZC DF6210EZ1	1103	1000	2.12	4050×1600×2750	13000
DF6210EZ2 DF6210EZ3	1029	1000	1.98		
DF6210EZ8 DF6210EZ9	993	1000	1.91		
DF6210EZ10 DF6210EZ11	956	1000	1.84		
DF6210EZ14 DF6210EZ15	882	1000	1.70		
DF6210EZ20 DF6210EZ21	809	900	1.73		
DF6210EZ22 DF6210EZ23	735	830	1.71		
DF6210EZ24 DF6210EZ25	720	750	1.85		
DF6210EZ28 DF6210EZ29	662	750	1.70		
DF6210EZ32 DF6210EZ33	750	830	1.74		
DF6210EZ36 DF6210EZ37	500	750	1.28		

※ 说明:DF6210EZC *型号中"*"偶数的右机,奇数的为左机。

外形图 OUTLINE



N5

MARINE GAS ENGINE

船用气体机

C.S.I. POWER

产品选型

PRODUCT SELECTION

GN320G船用气体机
N210G船用气体机
N170G船用气体机

气体机
GAS ENGINE

“宁动”牌纯气体发动机是主研制的新一代节能 、环保型中速发动机。采用电火花点火燃烧，通过精确的空燃比控制，实现稀薄燃烧，达到 IMO Tier III 阶段排放。可应用于 LNG 运输船、渔船、长江航运、客货轮、工程船、天然气钻井平台和陆用电站等。

"Ningdong" brand pure gas engine is a new generation of energy-saving and environment-friendly medium speed engine independently developed. It adopts spark ignition combustion and precise air-fuel ratio control to realize lean combustion and achieve IMO Tier III emission. It can be used in LNG carriers, fishing boats, Yangtze River shipping, passenger and cargo ships, engineering ships, natural gas drilling platforms and land power plants.

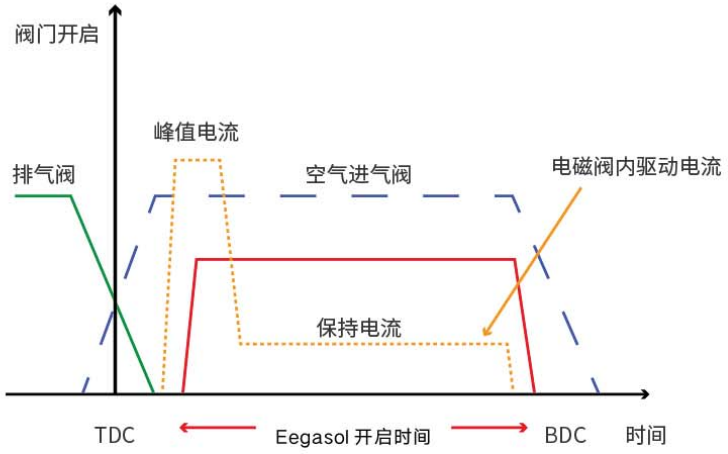


气体机技术结构特点
GAS ENGINE Technical Structure Features

多点喷射的燃气进气系统 Multi point injection gas intake system

采用多点燃气喷射技术，精确控制各缸燃气喷射，增加了控制灵活性，可以控制各缸的天然气供气量，控制供气时刻，避开气门重叠角。正常运行时，可避免天然气滞留在进气道或进入排气管，从而防止了进气管回火爆炸和排气管“放炮”的现象。

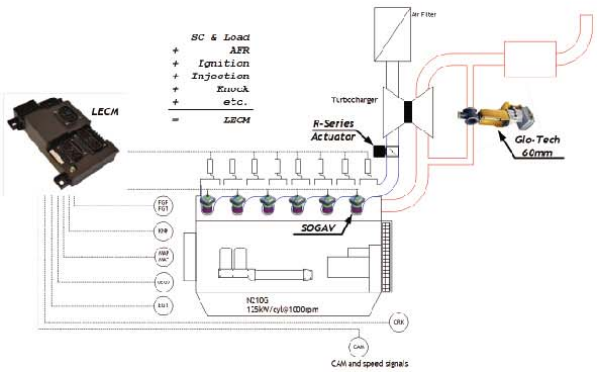
The multi-point gas injection technology is adopted to precisely control the gas injection of each cylinder, which increases the control flexibility. It can control the natural gas supply quantity of each cylinder, control the gas supply timing, and avoid the valve overlap angle. During normal operation, natural gas can be avoided to stay in the inlet or enter into the exhaust pipe, so as to prevent backfire explosion of the inlet pipe and "blasting" of the exhaust pipe.



ECU控制系统 ECU control system

控制系统集成转速/负荷控制，空燃比控制，燃气喷射控制，点火控制，爆震控制，燃气GVU控制。通过多种通讯方式实现与外部设备的信息交互

The control system integrates speed / load control, air fuel ratio control, gas injection control, ignition control, knock control, gas GVU control. Information interaction with external devices through various communication methods.



预燃室火花塞 Spark plug of pre combustion chamber

采用预燃室式点火方案，改善燃烧效果，提高燃烧热效率。

The pre chamber ignition scheme is adopted to improve the combustion effect and thermal efficiency.

废气旁通阀 Wastegate

在高负荷情况下，节气门完全打开，通过废气旁通阀或进气旁通阀控制增压空气流量以符合脉谱图要求，进而控制空燃比。在开环控制模式下，根据预设的增压压力控制脉谱图，控制发动机节气门/增压器旁通阀，同时可根据进气温度等进行修正。

Under the condition of high load, the throttle is fully opened, and the charge air flow is controlled by the exhaust bypass valve or the intake bypass valve to meet the requirements of the pulse spectrum, so as to control the air-fuel ratio. In the open-loop control mode, the engine throttle / supercharger bypass valve can be controlled according to the preset boost pressure control map, and it can be modified according to the intake air temperature.



GN320G



百年中策

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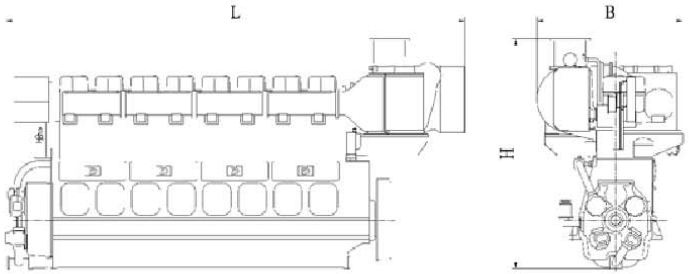
型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
GN6320GZC	1470	600	1.61	5020×1580×2780	22000
GN6320GZC2	1323	600	1.45		
GN6320GZC4	1213	600	1.33		
GN6320GZC6	1103	600	1.21		
GN6320GZC8	1000	600	1.09		
GN8320GZC	2206	600	1.80		
GN8320GZC2	2000	600	1.64		
GN8320GZC4	1765	600	1.44	6210×1755×2950	27000
GN8320GZC6	1618	600	1.32		
GN8320GZC8	1470	600	1.20		

基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	320×380 mm	单缸排量 Displacement/CYL	30.56L
燃油热耗率 FUEL HEAT RATE	8600KJ/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
燃料类型 Fuel type	LNG 或 CNG 天然气	气源燃气压力 Gas source pressure	5 ～ 8bar
特点 Feature	进气歧管多点喷射、预燃室火花塞点火 Intake manifold multi-point injection, pre chamber spark plug ignition		
曲轴转向 Rotate direction	顺时针（飞轮端视） clockwise (aft. end)	排放 Emission	IMO Tier II、 Tier III (配置 SCR)

外形图 OUTLINE



百年中策

N210G



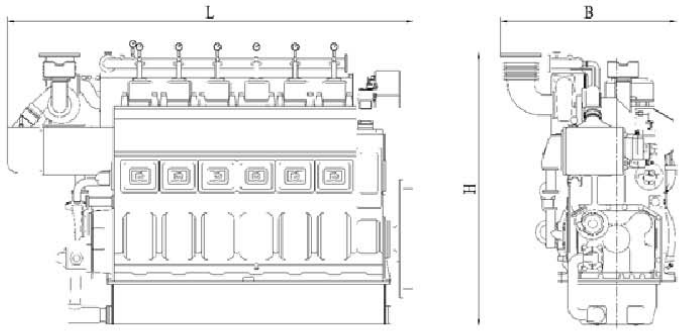
基本参数 GENERAL DATA

缸径×行程 Bore×Stroke	210×300 mm	单缸排量 Displacement/CYL	10.39L
燃油热耗率 FUEL HEAT RATE	8600KJ/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
燃料类型 Fuel type	LNG 或 CNG 天然气	气源燃气压力 Gas source pressure	5 ～ 8bar
特点 Feature	进气歧管多点喷射、预燃室火花塞点火 Intake manifold multi-point injection, pre chamber spark plug ignition		
曲轴转向 Rotate direction	顺时针（飞轮端视）clockwise (aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
N6210GZC	750	1000	1.44	3750×1590×2635	12500
N6210GZC2	662	1000	1.28		
N6210GZC4	551	1000	1.06		
N8210GZC	1000	1000	1.44	4685×1590×2890	16000
N8210GZC2	882	1000	1.27		
N8210GZC4	809	1000	1.17		

外形图 OUTLINE



C.S.I. POWER 中策动力



N170G



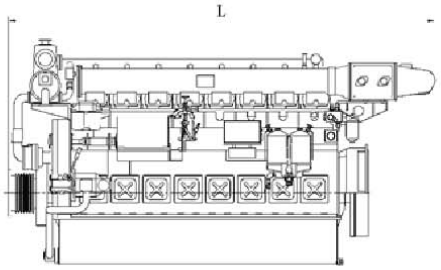
基本参数 GENERAL DATA

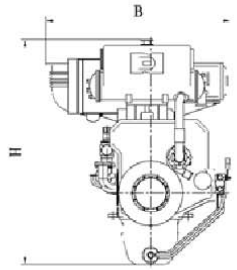
缸径×行程 Bore×Stroke	170×200 mm	单缸排量 Displacement/CYL	4.54L
燃油热耗率 FUEL HEAT RATE	8600KJ/kW・h	最低滑油消耗率 SLOC	0.6 g/kW・h
燃料类型 Fuel type	LNG 或 CNG 天然气	气源燃气压力 Gas source pressure	5 ～ 8bar
特点 Feature	进气歧管多点喷射、火花塞点火 Intake manifold multi-point injection, spark plug ignition		
曲轴转向 Rotate direction	顺时针（飞轮端视）clockwise (aft. end)	排放 Emission	IMO Tier II、国二

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power	额定转速 Rated speed	平均有效压力 MEP	长×宽×高 Length × Width × Height	重量 Weight
	kW	r/min	MPa	mm	kg
$N6170GZ_LC$	350	1200	1.29	2730×1320×1670	3200
$N6170GZ_LC1$	294	1200	1.08		
$N6170GZ_LC2$	250	1200	0.92		
$N6170GZ_LC3$	220	1200	0.81		
$N8170GZ_LC$	450	1200	1.24	3180×1360×1680	3800
$N8170GZ_LC1$	440	1200	1.21		
$N8170GZ_LC2$	400	1200	1.10		
$N8170GZ_LC3$	380	1200	1.05		

外形图 OUTLINE







N6

MARINE GENERATOR SET

船用发电机组

C.S.I. POWER

产品选型

PRODUCT SELECTION

大功率船用发电机组
N230船用发电机组
N210船用发电机组
N170E船用发电机组

船用发电机组概况

Overview of Marine diesel generator set

我公司可以提供功率在200~4000kW的船用发电机组，所有船用产品完全符合国际海事组织（IMO）Teir II 排放要求；满足CCS的无石棉要求，并可向用户提供《无石棉声明》。

Our company can provide marine generator sets which power in the 200 ~ 4000 kw. All marine products completely conform to the international maritime organization (IMO) Teir II emissions requirements; conform to the requirements of CCS about no asbestos and "no asbestos statement" can be provided to users.

柴油机和发电机通过弹性联轴器连接后置于装有减震器的共同底座上，便于用户安装；

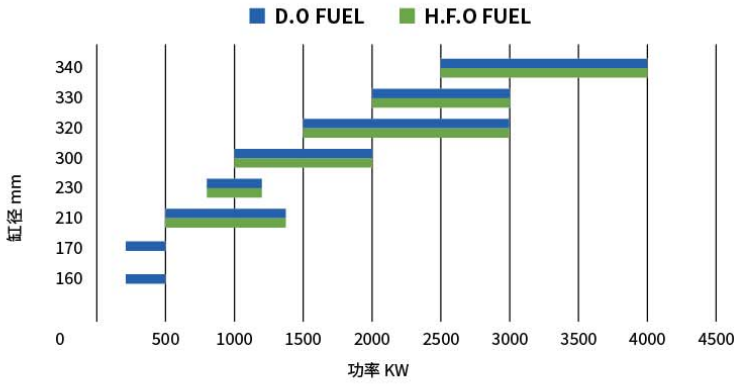
The diesel engine and generator are connected by a flexble coupling and placed on the common base with shock absorber to facilitate user installation.

发电机组可以选配中船现代、马拉松、兰州电机和西门子许可证制造的1FC2、1FC5、1FC6等自励型无刷恒压同步发电机(可根据用户要求选配厂家)；

The generator set can be selected for self-excited brushless constant voltage synchronous generator 1FC2、1FC5、1FC6 etc., manufactured by CSSC, Lanzhou electric corporation, MARATHON, Siemens license.

电压等级有230V、400V、450V、690V等;频率50Hz或60HZ。

The voltage level is 230V, 400V, 690V, etc. Frequency is 50Hz or 60Hz.





百年中策

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船用大功率发电机组
MARINE HIGH POWER GENERATOR SET



百年中策

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附件配置及可选件
STANDARD AND OPTIONAL PARTS

减震器（标准配）
Damping pad (standard)

缸套水加热器（自起动标准配）
Jacket water heater (standard for self-start engine)

预润滑泵（自起动标准配）
Pregreasing pump (standard for self-start engine)

调速器：电子调速器（标准配）
Governor：electronic governor (standard)

排气消音器（可选配）
Silencer (optional)

整机起吊装置（标准配）
Lifting appliance (standard)

基本参数 GENERAL DATA

序号 Mo.	项目 Item		单位 Unit	技术参数 Technical data
1	功率因数 Power factor			0.8(滞后 lag)
2	电压 Voltage	稳态调整率 Stable voltage	%	＜±2.5
		瞬态调整率 Transient voltage	%	-15～+20
		稳定时间 Voltage recovery time	s	＜1.5
		波动率 Voltage fluctuation rate	%	≤±1
3	频率 Frequency	稳态调整率 Steady-state frequency deviation	%	＜5(并联机组 parallel)
		瞬态调整率 Transient frequency deviation	%	≤±10
		稳定时间 Frequency stable time	s	＜5
		波动率 Waveform distortion rate	%	≤±0.5
4	冷却方式 Cooling method			闭式水冷 Circulating water cooling
5	联接方式 Connecting method			弹性 flexible coupling
6	起动方式 Startng method			压缩空气 Compressed air
7	燃油消耗率 SFOC		g/kW・h	$\leq 198^{+5\%}$
8	滑油消耗率 SLOC		g/kW・h	≤0.6



型谱表 SPECIFICATION

发电机组型号 Generator model	功率 Rated power (kW)	柴油机型号 Engine model	发电机 Alternator	外形尺寸 Size (mm)	重量 Weight (kg)
CCFJ1500J(Z)-W**	1500	GN6320	西门子 中船现代	8240×2105×3055	33500
CCFJ1800J(Z)-W**	1800	G8300		9710×2350×3215	39500
CCFJ2000J(Z)-W**	2000	G8300		9845×2350×3215	42500
CCFJ2500J(Z)-W**	2500	DN6330		8065×2820×3790	61500
CCFJ3000J(Z)-W**	3000	NL6340		8230×2455×4085	63500
CCFJ3500J(Z)-W**	3500	DN8340		9508×2680×4650	77000
CCFJ4000J(Z)-W**	4000	NL8340		9600×2750×4520	79000

※ “CCFJ***J-W**”为常规机组;“CCFJ***Z-W**”为自启动机组。

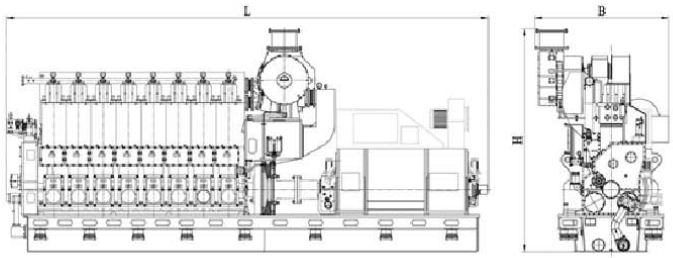
“CCFJ***J-W” means conventional engine, “CCFJ***Z-W**” means self-start engine.

上表中发电机组均为:频率50Hz, 电压400V;如需要可能根据用户要求更改, 具体规格和技术参数请咨询。

Rated frequency is 50Hz and voltage is 400V for the generator sets in the above table, which can be changed according to customer requirements.



外形图 OUTLINE



N230 船用发电机组
N230 MARINE GENERATOR SET



百年中策

附件配置及可选件
STANDARD AND OPTIONAL PARTS

减震器（标准配）
Damping pad (standard)

缸套水加热器（自起动标准配）
Jacket water heater (standard for self-start engine)

预润滑泵（自起动标准配）
Pregreasing pump (standard for self-start engine)

调速器：电子调速器（标准配）
Governor：electronic governor (standard)

排气消音器（可选配）
Silencer (optional)

整机起吊装置（标准配）
Lifting appliance (standard)

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基本参数 GENERAL DATA

序号 Mo.	项目 Item		单位 Unit	技术参数 Technical data
1	功率因数 Power factor			0.8(滞后 lag)
2	电压 Voltage	稳态调整率 Stable voltage	%	＜±2.5
		瞬态调整率 Transient voltage	%	-15～+20
		稳定时间 Voltage recovery time	s	＜1.5
		波动率 Voltage fluctuation rate	%	≤±1
3	频率 Frequency	稳态调整率 Steady-state frequency deviation	%	＜5(并联机组 parallel)
		瞬态调整率 Transient frequency deviation	%	≤±10
		稳定时间 Frequency stable time	s	＜5
		波动率 Waveform distortion rate	%	≤±0.5
4	冷却方式 Cooling method			闭式水冷 Circulating water cooling
5	联接方式 Connecting method			弹性 flexible coupling
6	起动方式 Startng method			气马达起动 Compressed air motor
7	燃油消耗率 SFOC		g/kW・h	≤194$^{+5\%}$
8	滑油消耗率 SLOC		g/kW・h	≤0.6

C.S.I. POWER 中策动力



型谱表 SPECIFICATION

发电机组型号 Generator model	额定功率 Rated power (kW)	额定转速 Rated speed (r/min)	原动机 Engine		发电机型号 Alternator model
			柴油机型号 Engine model	额定功率 Engine Capacity (kW)	
CCFJ800J(Z)-W**	800	1000	N6230ZCD54	882	西门子中船现代
CCFJ900J(Z)-W**	900	1000	N6230ZCD36	1000	
CCFJ1000J(Z)-W**	1000	1000	N6230ZCD22	1103	
CCFJ1100J(Z)-W**	1100	1000	N6230ZCD4	1323	
CCFJ1200J(Z)-W**	1200	1000	N6230ZCD	1470	

※ “CCFJ***J-W**”为常规机组；“CCFJ***Z-W**”为自启动机组。

“CCFJ***J-W” means conventional engine, “CCFJ***Z-W**” means self-start engine.

上表中发电机组均为：频率50Hz，电压400V；如需要可能根据用户要求更改，具体规格和技术参数请咨询。

Rated frequency is 50Hz and voltage is 400V for the generator sets in the above table, which can be changed according to customer requirements.



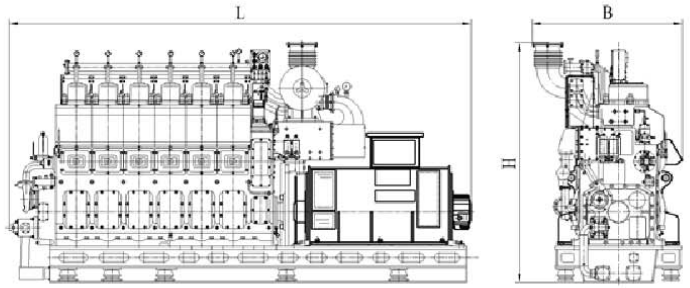
外形尺寸 SIZE

型号 Generator model	L mm	L* mm	B mm	H mm	H* mm	重量 Weight (Kg)
CCFJ300J(Z)-W04B	5800	5345	1915	2965	3025	20.2
CCFJ350J(Z)-W04B	5830	5375	1895	2965	3025	19.8
CCFJ400J(Z)-W04B	5830	5375	1895	2965	3025	19.8
CCFJ500J(Z)-W04B	5950	5495	1895	2965	3025	20.4
CCFJ520J(Z)-W04B	5950	5495	1895	2965	3025	20.4
CCFJ600J(Z)-W04B	5980	5525	1985	2965	3025	21
CCFJ720J(Z)-W03B	5980	5525	1985	2965	3025	20.3
CCFJ800J(Z)-W03B	6040	5585	1985	2965	3025	20.6
CCFJ1000J(Z)-W03B	6255	5850	2155	2070	3090	21.9

※ “*”的为增压器置于飞轮端。

Size with “*” is for TC on fore end.

外形图 OUTLINE



N210 船用发电机组
N210 MARINE GENERATOR SET



百年中策

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附件配置及可选件
STANDARD AND OPTIONAL PARTS

减震器（标准配）
Damping pad (standard)

缸套水加热器（自起动标准配）
Jacket water heater (standard for self-start engine)

预润滑泵（自起动标准配）
Pregreasing pump (standard for self-start engine)

调速器：电子调速器（标准配）
Governor：electronic governor (standard)

排气消音器（可选配）
Silencer (optional)

整机起吊装置（标准配）
Lifting appliance (standard)

基本参数 GENERAL DATA

序号 Mo.	项目 Item		单位 Unit	技术参数 Technical data
1	功率因数 Power factor			0.8(滞后 lag)
2	电压 Voltage	稳态调整率 Stable voltage	%	＜±2.5
		瞬态调整率 Transient voltage	%	-15～+20
		稳定时间 Voltage recovery time	s	＜1.5
		波动率 Voltage fluctuation rate	%	≤±1
3	频率 Frequency	稳态调整率 Steady-state frequency deviation	%	＜5(并联机组 parallel)
		瞬态调整率 Transient frequency deviation	%	≤±10
		稳定时间 Frequency stable time	s	＜5
		波动率 Waveform distortion rate	%	≤±0.5
4	冷却方式 Cooling method			闭式水冷 Circulating water cooling
5	联接方式 Connecting method			弹性 flexible coupling
6	起动方式 Startng method			气马达起动 Compressed air motor
7	燃油消耗率 SFOC		g/kW・h	≤194$^{+5\%}$
8	滑油消耗率 SLOC		g/kW・h	≤0.6

C.S.I. POWER 中策动力



型谱表 SPECIFICATION

发电机组型号 Generator model	额定功率 Rated power (kW)	额定转速 Rated speed (r/min)	原动机 Engine		发电机型号 Alternator model
			柴油机型号 Engine model	额定功率 Engine Capacity (kW)	
CCFJ350J(Z)-W04B	350	750	N6210ZCD12	551	1FC5 456-8TA
CCFJ400J(Z)-W04B	400	750	N6210ZCD12	551	1FC5 456-8TA
CCFJ500J(Z)-W04B	500	750	N6210ZCD12	551	1FC5 504-8TA
CCFJ520J(Z)-W04B	520	750	N6210ZCD4	662	1FC5 504-8TA
CCFJ600J(Z)-W04B	600	750	N6210ZCD4	662	1FC5 562-8TA
CCFJ720J(Z)-W03B	720	1000	N6210ZCD18	882	1FC5 504-6TA
CCFJ800J(Z)-W03B	800	1000	N6210ZCD18	882	1FC5 506-6TA
CCFJ1000J(Z)-W03B	1000	1000	N6210ZCD8	1103	1FC5 564-6TA

※ “CCFJ***J-W**”为常规机组；“CCFJ***Z-W**”为自启动机组。

“CCFJ***J-W” means conventional engine, “CCFJ***Z-W**” means self-start engine.

上表中发电机组均为：频率50Hz，电压400V；如需要可能根据用户要求更改，具体规格和技术参数请咨询。

Rated frequency is 50Hz and voltage is 400V for the generator sets in the above table, which can be changed according to customer requirements.



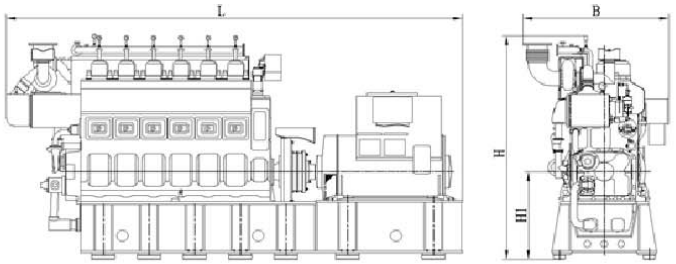
外形尺寸 SIZE

型号 Generator model	L mm	L* mm	B mm	H mm	H* mm	H1 mm	重量 Weight (Kg)
CCFJ300J(Z)-W04B	5800	5345	1915	2965	3025	1150	20.2
CCFJ350J(Z)-W04B	5830	5375	1895	2965	3025	1150	19.8
CCFJ400J(Z)-W04B	5830	5375	1895	2965	3025	1150	19.8
CCFJ500J(Z)-W04B	5950	5495	1895	2965	3025	1150	20.4
CCFJ520J(Z)-W04B	5950	5495	1895	2965	3025	1150	20.4
CCFJ600J(Z)-W04B	5980	5525	1985	2965	3025	1150	21
CCFJ720J(Z)-W03B	5980	5525	1985	2965	3025	1150	20.3
CCFJ800J(Z)-W03B	6040	5585	1985	2965	3025	1150	20.6
CCFJ1000J(Z)-W03B	6255	5850	2155	2070	3090	1150	21.9

※ “*”的为增压器置于飞轮端。

Size with “*” is for TC on fore end.

外形图 OUTLINE



百年中策

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N170 船用发电机组
N170 MARINE GENERATOR SET



百年中策

www.ningdong.com

附件配置及可选件
STANDARD AND OPTIONAL PARTS

减震器（标准配）
Damping pad (standard)

缸套水加热器（自起动标准配）
Jacket water heater (standard for self-start engine)

预润滑泵（自起动标准配）
Pregreasing pump (standard for self-start engine)

调速器：电子调速器（标准配）
Governor：electronic governor (standard)

排气消音器（可选配）
Silencer (optional)

整机起吊装置（标准配）
Lifting appliance (standard)

基本参数 GENERAL DATA

序号 Mo.	项目 Item		单位 Unit	技术参数 Technical data
1	功率因数 Power factor			0.8(滞后 lag)
2	电压 Voltage	稳态调整率 Stable voltage	%	＜±2.5
		瞬态调整率 Transient voltage	%	-15～+20
		稳定时间 Voltage recovery time	s	＜1.5
		波动率 Voltage fluctuation rate	%	≤±1
3	频率 Frequency	稳态调整率 Steady-state frequency deviation	%	＜5(并联机组 parallel)
		瞬态调整率 Transient frequency deviation	%	≤±10
		稳定时间 Frequency stable time	s	＜5
		波动率 Waveform distortion rate	%	≤±0.5
4	冷却方式 Cooling method			闭式水冷 Circulating water cooling
5	联接方式 Connecting method			弹性 flexible coupling
6	起动方式 Startng method			气马达起动 Compressed air motor
7	燃油消耗率 SFOC		g/kW・h	≤196$^{+5\%}$
8	滑油消耗率 SLOC		g/kW・h	≤0.7



型谱表 SPECIFICATION

发电机组型号 Generator model	额定功率 Rated power (kW)	额定转速 Rated speed (r/min)	原动机 Engine		发电机型号 Alternator model
			柴油机型号 Engine model	额定功率 Engine Capacity (kW)	
CCFJ200J(Z)-W01A	200	1000	N6170ZLCD2	250	TFXW-355-6-H
CCFJ200J(Z)-W02A					1FC6 355-6SA42
CCFJ250J(Z)-W01A	250	1000	N6170ZLCD4	330	TFXW-355-6-H
CCFJ250J(Z)-W02A					1FC6 356-6SA42
CCFJ280J(Z)-W01A	280	1000	N6170ZLCD4	330	TFXW-355-6-H
CCFJ280J(Z)-W02A					1FC6 404-6SA42
CCFJ300J(Z)-W01A	300	1000	N6170ZLCD4	330	TFXW-355-6-H
CCFJ300J(Z)-W02A					1FC6 405-6SA42
CCFJ350J(Z)-W08A	350	1500	N6170ZLCD13	400	TFXW-355-4-H
CCFJ350J(Z)-W09A					1FC6 403-4SA42
CCFJ350J(Z)-W01A		1000	N8170ZLCD11	400	TFXW-400-6-H
CCFJ350J(Z)-W02A					1FC6 406-6SA42
CCFJ400J(Z)-W08A	400	1500	N6170ZLCD14	450	TFXW-355-4-H
CCFJ400J(Z)-W09A					1FC6 405-4SA42
CCFJ400J(Z)-W01A		1000	N8170ZLCD1	441	TFXW-400-6-H
CCFJ400J(Z)-W02A					1FC6 408-6SA42
CCFJ400J(Z)-W06A					1FC2 452-6SB42
CCFJ500J(Z)-W08A	500	1500	N8170ZLCD4	600	TFXW-355-4-H
CCFJ500J(Z)-W09A					1FC6 453-4SA42
CCFJ500J(Z)-W05A					1FC2 451-4SB42

※ “CCFJ***J-W**”为常规机组;“CCFJ***Z-W**”为自启动机组。

“CCFJ***J-W” means conventional engine, “CCFJ***Z-W**” means self-start engine.

上表中发电机组均为:频率50Hz, 电压400V;如需要可能根据用户要求更改, 具体规格和技术参数请咨询。

Rated frequency is 50Hz and voltage is 400V for the generator sets in the above table, which can be changed according to customer requirements.



百年中策

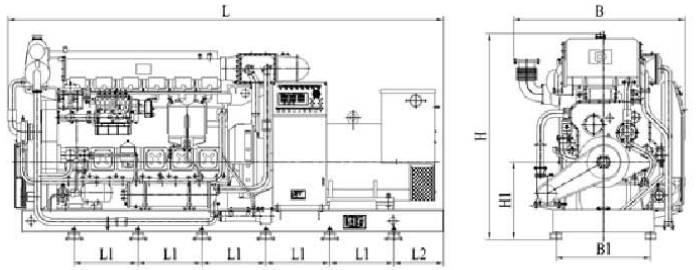
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外形尺寸 SIZE

型号 Generator model	L mm	L* mm	L1 mm	L2 mm	B mm	B* mm	B1 mm	H mm	H1 mm	重量 Weight (Kg)
CCFJ200J(Z)-W01A	3640	3640	570	253	1412	1437	844	1816	667	5480
CCFJ200J(Z)-W02A	3859	3859	570	472	1412	1437	844	1816	667	5650
CCFJ250J(Z)-W01A	3640	3640	570	253	1412	1437	844	1816	667	5590
CCFJ250J(Z)-W02A	3859	3859	570	472	1412	1437	844	1816	667	5730
CCFJ280J(Z)-W01A	3740	3740	570	353	1412	1437	844	1816	667	5780
CCFJ280J(Z)-W02A	3985	3985	570	598	1412	1597	844	1816	667	5970
CCFJ300J(Z)-W01A	3740	3740	570	353	1412	1437	844	1816	667	5780
CCFJ300J(Z)-W02A	3985	3740	570	598	1412	1597	844	1816	667	6070
CCFJ350J(Z)-W08A	3640	3640	570	253	1591	1591	844	1816	667	5630
CCFJ350J(Z)-W09A	3985	3985	570	598	1591	1591	844	1816	667	5790
CCFJ350J(Z)-W01A	4376	4376	570	418	1519	1519	844	1979	772	7160
CCFJ350J(Z)-W02A	4456	4456	570	498	1519	1519	844	1979	772	7010
CCFJ400J(Z)-W08A	3640	3640	570	253	1591	1591	844	1816	667	5780
CCFJ400J(Z)-W09A	3985	3985	570	598	1591	1591	844	1816	667	5830
CCFJ400J(Z)-W01A	4376	4376	570	418	1519	1519	844	1979	772	7160
CCFJ400J(Z)-W02A	4526	4526	570	568	1519	1579	844	1979	772	7160
CCFJ400J(Z)-W06A	4376	4376	570	418	1519	1674	844	1979	772	7460
CCFJ500J(Z)-W08A	4204	4204	570	253	1526	1526	844	1979	772	6980
CCFJ500J(Z)-W09A	4376	4376	570	418	1526	1641	844	1979	772	8090
CCFJ500J(Z)-W05A	4369	4369	570	418	1526	1641	844	1979	772	7360

※ “*”的为自启动尺寸。
Size with “*” is for self-start engine.

外形图 OUTLINE





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N7

LAND USE GENERATOR SET

陆用发电机组

C.S.I. POWER

产品选型

PRODUCT SELECTION

17/20柴油机发电机组
21/30柴油机发电机组
23/32柴油机发电机组
30/38柴油机发电机组
30/42柴油机发电机组
32/38柴油机发电机组
33 (34) /45柴油机发电机组
34/48柴油机发电机组
NV32/40柴油机发电机组

陆用发电机组概况

Overview of Land use generator set

主要产品包括17/20、30/38、32/38、33/45、34/45、34/48、NV32/40系列发电机组产品功率范围200-8000kw，为陆用发电提供优质的解决方案。可为客户提供“定制服务”，建设连续运行电站，调峰电站以及工业自用电电站，可使用柴油、重油、石油、生物燃料及双燃料等多种燃料，广泛用于水泥/纺织/矿山/石油/燃气等行业。

Main products include17/20、30/38、32/38、33/45、34/45、34/48、NV32/40 series diesel generating sets with output from 200 to 8000kW. We offer customized stationary power plant solutions for base load power plant, peaking power plant and industrial self-application power plant in cement, textile, mining or oil, gas industries and etc., which can use diesel, LPFO/HFO, crude oil, bio-fuel, dual fuel(nature gas) and etc.

中策从1999 年至今在全球建成230余座容量1MW-60MW

C.S.I. has built more than 230 power plants, capacity from 1MW to 60MW, around the world since 1999.

电站主要为连续24小时运行重油电站,行业覆盖工业园区、水泥、纺织、矿山、码头、钢铁、城镇主电源与调峰备用电源。

Most of the power plants are HFO plants that continuous work for 24 hours, The industry covers industrial area, cement, textiles, mines, docks, steel, urban power supply and peak reserve power supply.

目前长期驻外人员80余人 其中驻尼日利亚55人，驻苏丹8人，驻几内亚5人，驻乍得3人，驻利比里亚2人，驻菲律宾2人，驻印尼3人，驻索马里2人。

There are more than 80 expatriate staffs for long-term, including 55 people in Nigeria, 8 people in Sudan, 5 people in Guinea, 3 people in Chad, 2 people in Liberia, 2 people in the Philippines, 3 people in Indonesia, 2 people in Somalia.

工程技术：根据不同用电负荷性质采取合适的技术配置（调速系统，励磁系统，配电系统等）；本着实用适度原则，根据客户需求提供完整的电站方案设计与技术支持。

Engineering technology: Adopt appropriate technical configuration according to different load characteristics (speed control system, exciation system, power distribution system, etc.) In order to be practical and appropriate, we provide complete power plant design and technical support according to customer's requirement.

工程组织：根据项目现场环境，开展施工工程图样设计转换，做好系统集成成套；结合电站建设经验，发挥本土公司的资源优势，有效规避土建施工风险；我们自有工程团队，使工程安装、调试、运行等节点能够得到有序、有计划地推进。

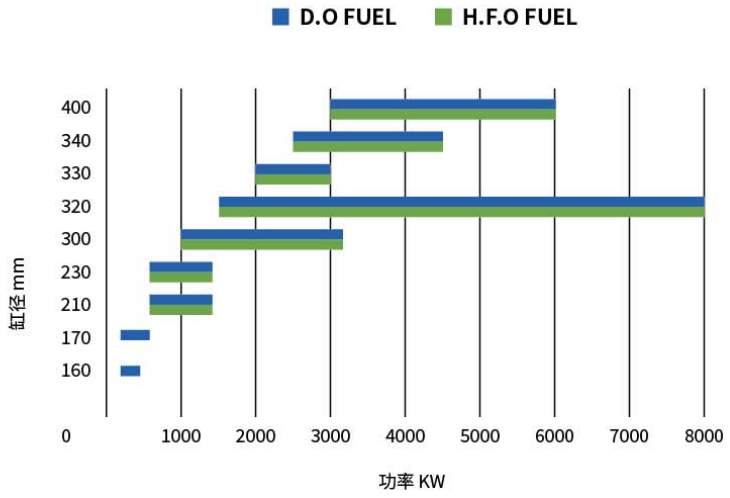
Project organization: According to the project site environment, carry out the design of the construction project and complete the system integration. With the experience of power plant construction, the resource advantage of local company can be used to avoid the risk of civil construction, And the installation, commissioning and operation of the project can be carried out in an orderly and planned way.

技术培训：项目现场技术培训与维修保养技术培训，确保业主具备项目的本土维护能力客户可以有计划地组织技术工程师到公司进行设备技术细节培训。

Training : Conduct technical and maintenance training on the site to ensure that the owner has the local maintenance capability of the project. We will provide technical and maintenance training for the project to ensure that the owner has the local maintenance capability of the project. We also provide training at the factory.

服务：长期战略合作，驻点结合市场拓展；设置区域服务机构，覆盖一定范围内的电站.

Service : We can provide a long-term cooperation model. Set up a regional service organization to cover a certain range of power plants.



百年中策

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海外工程介绍

Overview of Land use generator set



位于尼日利亚的 JOGANA 重油电站17×1MW 配备G6300ZD重油发电机组。
The JOGANA HFO power plant 17×1MW in Nigeria is equipped with G6300ZD HFO generater set.



位于尼日利亚地 JOGANA 重油电站24×1MW配备6300ZD 重油发电机组。
The JOGANA HFO power plant 24×1MW in Nigeria is quipped with G6300ZD HFO generator set.



位于尼日利亚的 JOGANA 重油/天然气双燃料电站18×2MW+6×1MW配备G8300ZD/G6300ZD双燃料发电机组。
The JOGANA HFO power plant 18×2MW+6×1MW in Nigeria is equipped with G8300ZD/G6300ZD HFO generater set.



乍得巴阿赫水泥厂10MW重油电站项目安装5台宁波中策生产的2MW发电机组，电站由宁波中策负责设计和指导安装，电站于2011年6月投入运行。此项目中使用的发电机组不仅可以使用柴油、重油，还可以使用生物质柴油、原油等燃料。
The 10MW HFO power plant in Chad, installed 5 sets of 2MW generators produced by Ningbo C.SI. The power plant was designed and guided by Ningbo C.S.I, and put into operation in June 2011. The generator set used in this project can not only use diesel oil, heavy oil, but also use biomass diesel, crude oil and other fuels.



位于乍得的阿巴赫水泥厂自用重油电站5×2MW GN8320ZD 重油机组。

The HFO power plant forCement plant 5×2MW in Chad is equipped with GN8320ZD HFO generater set.

根据客户对环保的要求，中策公司出口欧洲的设备可以燃用裂解油（轮胎油）以及各种生物燃料如（废植物油）。

According to clients requirement, the generating sets exported by Ningbo C.S.I Power & Machinery Co., Ltd. to Europe could combust the fuel of Waste tire oil and variety of bio fuel such as waste vegetable oil to protect the environment .



为意大利 Project Energy Srl 公司设计建造的轮胎解油电站2×1MW 配备G6300ZD 轮胎油发电机组。

The TO power plant forProject Energy Srl 2×1MW in Italyis equipped with G6300ZD TO generater set.



位于菲律宾的Pacerm-1重油电站3×35MW 配备DN8340ZD重油发电机组。

The Pacerm-1HFO power plant 3×3.5MW in The Philippines is equipped with DN8340ZD HFO generater set.

C.S.I.
POWER
中策动力



17/20 柴油机发电机组
17/20 DIESEL GENERATOR SET

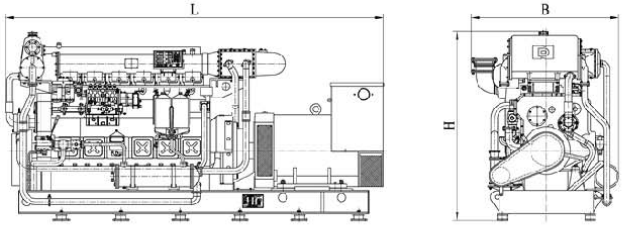


缸径 Bore	170mm
行程 Stroke	200mm
转速 Speed	1000/1500/1200r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size (mm)			重量 Weight (kg)
					L	B	H	
200GF	200	N6170	250	$206^{+5\%}$	3740	1437	1816	5480
250GF	250	N6170	294		3740	1437	1816	5590
300GF	300	N6170	330		3985	1597	1816	6070
350GF	350	N8170	400		4472	1519	1979	6860
400GF	400	N8170	441		4575	1519	1979	7010
500GF	500	N8170	600		4450	1526	1979	7210

外形图 OUTLINE



21/30 柴油机发电机组
21/30 DIESEL GENERATOR SET

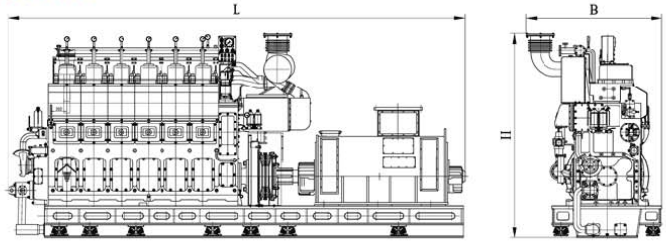


缸径 Bore	210mm
行程 Stroke	300mm
转速 Speed	750/1000/900r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50°C、380cSt/50°C

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size (mm)			重量 Weight (kg)
					L	B	H	
500GF	500	N6210	551	$204^{+5\%}$	5900	1577	3005	17000
600GF	600	N6210	661		5950	1540	2890	17500
800GF	800	N6210	882		5950	1540	2890	18200
1000GF	1000	N6210	1103		6370	1750	2994	19500
1200GF	1200	N8210	1323		6600	1750	2994	21000
1350GF	1350	N8210	1470		7380	1750	2994	22000

外形图 OUTLINE



23/32 柴油机发电机组
23/32 DIESEL GENERATOR SET

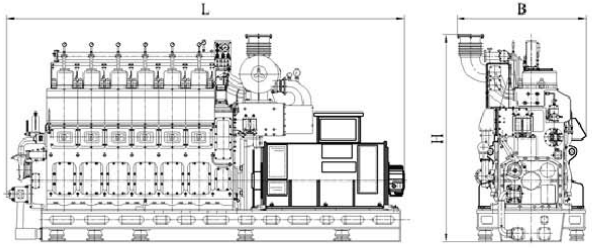


缸径 Bore	225mm
行程 Stroke	320mm
转速 Speed	720/750/900/1000r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50°C、380cSt/50°C

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size (mm)			重量 Weight (kg)
					L	B	H	
800GF	800	N6230	882	195+5%	5600	2100	3125	21.6
900GF	900	N6230	1000		5730	2100	3125	22.4
1000GF	1000	N6230	1103		5700	2200	3125	22.9
1100GF	1100	N6230	1213		5700	2200	3125	23.9
1200GF	1200	N6230	1323		5930	2600	3125	24.5

外形图 OUTLINE



30/38 柴油机发电机组
30/38 DIESEL GENERATOR SET

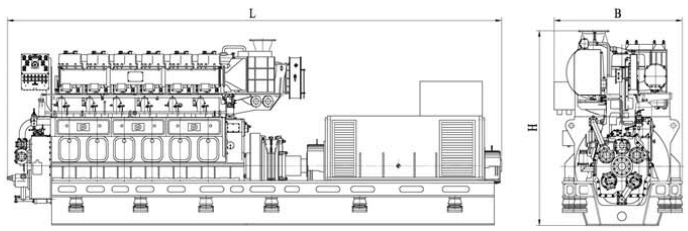


缸径 Bore	300mm
行程 Stroke	380mm
转速 Speed	500/600r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50°C

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size (mm)			重量 Weight (kg)
					L	B	H	
1000GF	1000	G6300	1103	205+5%	7364	2285	3211	32000
1250GF	1250	G6300	1471		7600	2300	3211	33000
1500GF	1500	G8300	1765		9501	2736	3261	51500
1800GF	1800	G8300	2000		9522	2736	3261	52000
2000GF	2206	G8300	2206		9522	2736	3261	52550

外形图 OUTLINE



32/38 柴油机发电机组
32/38 DIESEL GENERATOR SET

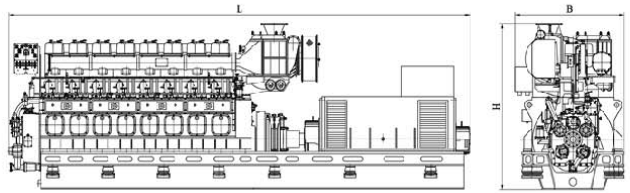


缸径 Bore	320mm
行程 Stroke	380mm
转速 Speed	600/720/750r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50℃

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size (mm)			重量 Weight (kg)
					L	B	H	
1500GF	1500	GN6320	1618	205+5%	7525	2540	3211	33500
2000GF	2000	GN8320	2206		8550	2663	3348	51000
2200GF	2200	GN8320	2500		8650	2663	3348	51500
2500GF	2500	GN8320	2795		8900	2663	3748	53000
3000GF	3000	DN8320	3310		9100	2663	3748	54000

外形图 OUTLINE



33(34)/45 柴油机发电机组
33(34)/45 DIESEL GENERATOR SET

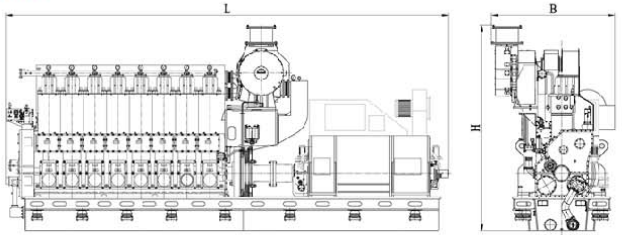


缸径 Bore	330/340mm
行程 Stroke	450mm
转速 Speed	600r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50℃、380cSt/50℃

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size (mm)			重量 Weight (kg)
					L	B	H	
2000GF	2000	DN6330	2206	195+5%	8050	2600	4289	53000
2200GF	2200	DN6330	2427		8050	2600	4289	53500
2500GF	2500	DN6330	2795		8100	2600	4289	56000
3000GF	3000	DN8330	3319		9400	2580	4220	75000
3200GF	3200	DN8340	3676		9450	2680	4650	79000
3500GF	3500	DN8340	3800		9508	2680	4650	79500

外形图 OUTLINE



34/48 柴油机发电机组
34/48 DIESEL GENERATOR SET

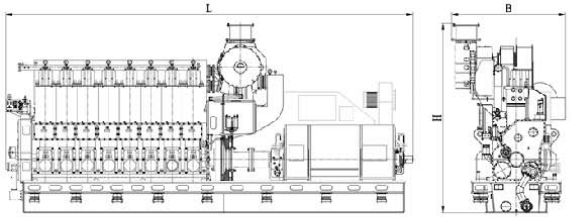


缸径 Bore	340mm
行程 Stroke	480mm
转速 Speed	600r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50°C、380cSt/50°C

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size(mm)			重量 Weight (kg)
					L	B	H	
2500GF	2500	NL6340	3089	$196^{+5\%}$	8100	2600	4289	56000
3000GF	3000	NL6340	3310		9400	2580	4220	75000
3200GF	3200	NL8340	4045		9450	2680	4650	79000
3500GF	3500	NL8340	4045		9508	2680	4650	79500
3800GF	3800	NL8340	4500		9550	2700	4700	80500
4000GF	4000	NL8340	4500		9600	2750	4720	81000

外形图 OUTLINE



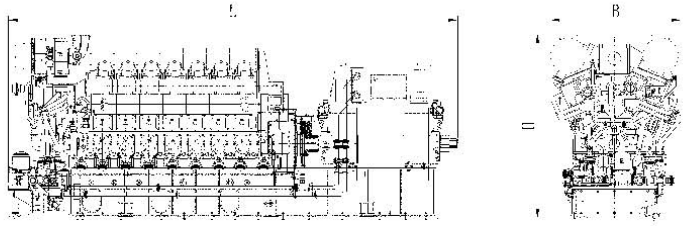
NV32/40 柴油机发电机组
NV32/40 DIESEL GENERATOR SET

缸径 Bore	320mm
行程 Stroke	400mm
转速 Speed	720/750r/min
频率 Frequency	50/60Hz
燃油规格 Fuel oil	0#、180cSt/50°C、380cSt/50°C

型谱表 SPECIFICATION

型号 Model	额定功率 Rated power (kW)	原动机 Prime mover	额定功率 Rated power (kW)	燃油消耗率 SFOC (g/kW·h)	外形尺寸 Size(mm)			重量 Weight (kg)
					L	B	H	
5820GF	5820	NV12-32/40	6000	$195^{+5\%}$	11520	3450	4900	100000
6790GF	6790	NV14-32/40	7000		12150	3450	4900	113000
7760GF	7760	NV16-32/40	8000		12780	3450	4900	133000
8730GF	8730	NV18-32/40	9000		13410	3450	4900	141000

外形图 OUTLINE



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Memorandum



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