

### 公司简介 COMPANY PROFILE

广西玉柴船电动力有限公司是广西玉柴机器股份有限公司的全资子公司，公司总部设在广西玉林市，公司致力于船舶动力、发电动力等产品的研发、生产、销售及售后服务，产品广泛应用于船舶与海洋工程装备、发电、石油钻井等领域，远销亚非拉、美、欧等国内外市场，深得新老客户的高度赞誉。发动机年生产能力超过5万台，综合年销售收入超50亿元。

公司目前共有员工8000余人，其中，享受国务院政府特殊津贴1人，外聘专家4人，博士1人，硕士研究生30余人，技术人员250余人，高技能人才230多人。

公司以“成就客户价值，驱动美好生活”为使命，致力于卓越品质和领先满足公众的动力需求，持续提升产品的价值。产品结构向布局，纵深发展，搭建了应用领域齐全完整、传统动力和新能源动力并举的产品谱系，产品功率覆盖15kW-4200kW，涵盖10大平台30大系列，产品包括柴油机、燃气机等，以大功率、大扭矩、高可靠、低能耗、低噪声、低排放、适配性强的特点成为国内主要船舶和发电设备装备优选的配套动力，为中国经济和世界经济的发展提供了强劲动力。

公司坚持自主创新，通过独特的技术创新体系，不断挑战动力技术新高度。在发动机研究领域，公司始终占据着制高点，推动了整个中国船舶行业技术水平发展，不断打破国际品牌垄断并替代，凭借过硬的实力为“中国制造”在国际船舶市场上占据越来越重要的角色。

Guangxi Yuchai Marine and Genset Power Co., Ltd. is a wholly-owned subsidiary of Guangxi Yuchai Machinery Co., Ltd. The company, headquartered in Yulin, Guangxi, is committed to R & D, production, sales, and customer service of marine engines, G-Drive engines as well as others. Its products, sold to markets worldwide including Asia, Africa, Latin America, the United States, and Europe as well as the domestic market, are widely used in marine and engineering equipment, power generation, oil drilling as well as other fields. Its products have won high praise from new and old customers. The annual production capacity of the engine exceeds 50,000 units. The annual sales revenue exceeds RMB 5 billion.

Currently, the company has more than 800 employees, including four employees enjoying the special government allowances of the State Council, two foreign experts, one doctor, more than 30 employees with master's degrees, over 250 technicians and more than 230 employees with highly-skilled talents.

With the mission of "achieving customer value and driving a better life", the company is committed to meeting the dynamic needs of the public with excellence and leadership. It also strives for continuous improvement of product values. Centered on a horizontal layout and in-depth development of product lines, the company has built a complete product spectrum that is applied in various fields and promotes simultaneous development of traditional energy power and new energy power. The power covers 15kW-4200kW for 10 major platforms and 30 major product series. In the product spectrum, diesel engines and gas engines are included, which have become the preferred power supplier for the main domestic marine and power generation equipment for its advantages like high power, high torque, high reliability, low energy consumption, low noise, low emission, and strong adaptability, providing a strong boost to the development of China's economy and the world economy.

The company adheres to independent innovation and constantly challenges the new height of power technology through a unique technological innovation system. In the field of engine research, the company has always occupied the commanding height, promoted the development of the technical level of the whole Chinese marine and Genset power industry, it has also broken the monopoly of international brands and successfully realized domestic substitution of them again and again, it has won an increasingly important role in the international marine and Genset power market for more and more "made in China" products.

### 全球营销服务网络 GLOBAL MARKETING SERVICE NETWORK

#### 国内营销布局

27个车机办事处、15个通航大区、13个船电营销中心。

#### 国内服务布局

30家配件专卖店子公司（区域）、3000多个服务站、5000多家配件销售网点。

#### 海外营销服务网络

13个办事处，256家服务代理商、948个服务网点。

#### Domestic Marketing Network

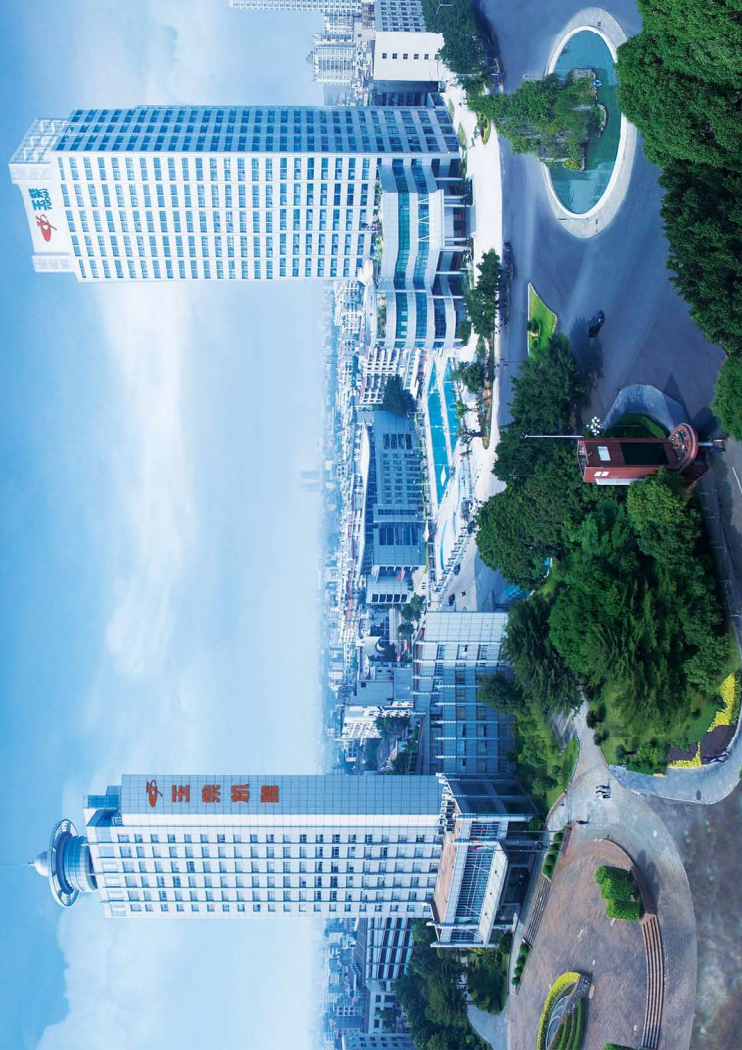
There are 27 regional sales office for vehicle engine, 15 regional sales office for industrial engine, and 13 regional marketing center for marine and G-Drive engine.

#### Domestic Service Network

30 engine parts monopoly subsidiaries (regions), more than 3,000 service stations, and more than 5,000 parts sales outlets.

#### Overseas Marketing Service Network

13 regional sales office, 256 service agents, and 948 service outlets.



# 玉柴陆用发电动力T3型谱

## YUCHAI T3 SERIES G-DRIVE ENGINE SPECTRUM



系列 Series	产品型号 Model	总排量 Displacement L	型式 Type	缸数 Cylinder quantity	缸径×行程 Bore×Stroke mm×mm	常用功率 Prime power kW	备用功率 Standby power kW	转速 Speed r/min	进气方式 Air intake mode	燃油系统 Fuel system	动力输出接口 Power output size		机组功率(kW) Genset Power	
											飞轮壳 Flywheel housing	飞轮 Flywheel	常用 Prime	备用 Standby
<b>■ 50Hz T3阶段</b>														
16VC	YC16VC4000-D31	105.56	V型 V-type	16	200×210	2673	2940	1500	增压中冷 Turbocharged & Intercooled	电控单体泵 EUP	SAE00#	SAE21"	2400	2600
	2405					2646	SAE00#				SAE21"	2200	2400	
	2205					2426	SAE00#				SAE21"	2000	2200	
	2005					2206	SAE00#				SAE21"	1800	2000	
12VC	YC12VC3000-D30	79.17	V型 V-type	12	200×210	2005	2206	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨HPCR	SAE00#	SAE21"	1800	2000
	1805					1985	SAE00#				SAE21"	1700	1800	
	1680					1850	SAE00#				SAE21"	1500	1650	
	1520					1670	SAE00#				SAE21"	1350	1500	
16VTD	YC12VC2070-D31	52.26	V型 V-type	16	152×180	1380	1520	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE00#	SAE18"	1200	1350
	1680					1850	SAE00#				SAE18"	1500	1650	
	1520					1672	SAE00#				SAE18"	1350	1500	
	1345					1480	SAE00#				SAE18"	1100	1200	
12VTD	YC12VTD1830-D30	39.2	V型 V-type	12	152×180	1220	1342	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE00#	SAE18"	1000	1100
	1120					1230	SAE00#				SAE18"	900	1000	
	1000					990	SAE00#				SAE18"	800	900	
	900					990	SAE00#				SAE18"	730	800	
6C	YC6C1660-D30	39.58	直列 In-line	6	200×210	1110	1221	1500	增压中冷 Turbocharged & Intercooled	电控单体泵 EUP	SAE00#	SAE18"	1000	1100
	1016					1118	SAE00#				SAE18"	900	1000	
	880					968	SAE00#				SAE18"	800	900	
	815					897	SAE00#				SAE18"	730	800	
6TH	YC6C1070-D31	28.14	直列 In-line	6	175×195	715	787	1500	增压中冷 Turbocharged & Intercooled	电控单体泵 EUP	SAE00#	SAE18"	650	710
	880					968	SAE00#				SAE18"	800	900	
	815					897	SAE00#				SAE18"	730	800	
	715					787	SAE00#				SAE18"	650	710	
6TD	YC6TD1000-D30	19.60	直列 In-line	6	152×180	668	735	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨HPCR	SAE1#	SAE14"	600	660
	605					665	SAE1#				SAE14"	550	600	
	561					616	SAE1#				SAE14"	500	550	
	605					665	SAE1#				SAE14"	550	600	
6T	YC6TD840-D30	16.35	直列 In-line	6	145×165	520	572	1500	增压中冷 Turbocharged & Intercooled	电控单体泵EUP	SAE1#	SAE14"	450	500
	441					485	SAE1#				SAE14"	400	440	
	441					485	SAE1#				SAE14"	400	440	
	401					441	SAE1#				SAE14"	360	400	
6K	YC6TK600-D30	12.16	直列 In-line	6	129×155	351	382	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE1#	SAE14"	320	340
	335					370	SAE1#				SAE14"	300	320	
	335					370	SAE1#				SAE14"	300	320	
	401					441	SAE1#				SAE14"	360	400	
6MJ	YC6MJ600-D30	11.73	直列 In-line	6	131×145	365	402	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE1#	SAE14"	320	360
	334					367	SAE1#				SAE14"	300	320	
	301					331	SAE1#				SAE14"	280	300	
	281					309	SAE1#				SAE14"	250	280	
6MK	YC6MK450-D30	10.34	直列 In-line	6	123×145	235	259	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE1#	SAE14"	200	220
	215					235	SAE1#				SAE14"	180	200	
	235					259	SAE1#				SAE14"	200	220	
	185					203	SAE1#				SAE14"	160	180	
6A	YC6A275-D30	7.53	直列 In-line	6	110×132	165	181	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE11.5"	SAE11.5"	144	160
	185					203	SAE11.5"				SAE11.5"	144	160	
	165					181	SAE11.5"				SAE11.5"	144	160	
	155					171	SAE11.5"				SAE11.5"	140	150	
6A	YC6A245-D30	7.25	直列 In-line	6	108×132	138	152	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE11.5"	SAE11.5"	120	132
	138					152	SAE11.5"				SAE11.5"	120	132	

# 玉柴陆用发电动力T3型谱

## YUCHAI T3 SERIES G-DRIVE ENGINE SPECTRUM



系列 Series	产品型号 Model	总排量 Displacement L	型式 Type	缸数 Cylinder quantity	缸径×行程 Bore×Stroke mm×mm	常用功率 Prime power kW	备用功率 Standby power kW	转速 Speed r/min	进气方式 Air intake mode	燃油系统 Fuel system	动力输出接口 Power output size		机组功率(kW) Genset Power
											飞轮壳 Flywheel housing	飞轮 Flywheel	
<b>■ 50Hz T3阶段</b>													
V75	YCD6033H6-260	7.42	直列 In-line	6	108×135	190	209	1500	增压中冷 Turbocharged & Intercooled 增压 Turbocharged	电控高压共轨 HPCR	SAE2#	160	180
	YCD6023H8-210										SAE11.5"	120	132
4A	YCA1190-D30	4.84	直列 In-line	4	108×132	110	121	1500	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE3#	90	100
	YCA1165-D30										SAE11.5"	90	100
	YCA1155-D30										SAE11.5"	90	100
	YCA1140-D30										SAE11.5"	80	90
4D	YCA4155-D31	4.21	直列 In-line	4	108×115	103	113	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE3#	90	100	
	YCA4140-D31									SAE11.5"	80	90	
	YCA4105-D34									SAE11.5"	60	64	
	YCA490-D34									SAE11.5"	50	55	
V25	YCA490-D34	3.86	直列 In-line	4	102×118	60	66	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE3#	45	50	
	YCA480-D34									SAE11.5"	40	44	
	YCDV33H6-75									SAE7.5"	30	33	
	YCDV254FHZ-50									SAE7.5"	24	26.4	
V25	YCDV254FHZ-40	2.5	直列 In-line	4	89×100	30	33	增压 Turbocharged	电控高压共轨 HPCR	SAE4#	20	22	
	YCDV254FHZ-35									SAE7.5"	20	22	
V25	YCDV254FHZ-25	2.0	直列 In-line	4	89×100	25	27.5	增压 Turbocharged	电控高压共轨 HPCR	SAE4#	16	17.5	
	YCDV254FHZ-25									SAE7.5"	16	17.5	
<b>■ 60Hz T3阶段</b>													
12VC	YC12VC2170-D33	79.17	V型 V-type	12	200×210	1450	1595	1200	增压中冷 Turbocharged & Intercooled	电液单体泵 EUP	SAE00#	1200	1300
	YC16VT20700-D32										SAE18"	1600	1800
16VTD	YC16VT20700-D32	52.26	V型 V-type	16	152×180	1805	1985	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE0#	1600	1800
	YC16VT20700-D32										SAE18"	1500	1650
12VTD	YC12VTD2070-D32	39.2	V型 V-type	12	152×180	1380	1520	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE0#	1200	1300
	YC12VTD1860-D32										SAE18"	1100	1200
	YC12VTD1680-D32										SAE18"	1000	1100
	YC12VTD1500-D32										SAE18"	900	1000
6TH	YC6TH1350-D33	28.14	直列 In-line	6	175×195	900	990	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE0#	800	900
	YC6TH1220-D33										SAE18"	730	800
6TD	YC6TH1070-D33	19.60	直列 In-line	6	152×180	680	748	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE0#	650	710
	YC6TD940-D32										SAE14"	600	660
	YC6TD840-D32										SAE14"	550	600
	YC6TD780-D32										SAE14"	500	550
6K	YC6K570-D32	12.94	直列 In-line	6	129×165	389	420	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE1#	350	380
	YC6K500-D32										SAE14"	320	350
6MK	YC6MK500-D32	12.16	直列 In-line	6	129×155	335	369	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE1#	300	330
	YC6MK420-D31										SAE14"	250	280
6A	YC6A305-D32	7.25	直列 In-line	6	108×132	203	223	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE2#	176	190
	YC6A285-D32										SAE11.5"	160	180
4A	YC4A205-D32	4.84	直列 In-line	4	108×132	138	152	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE2#	150	160
	YC4D180-D33										SAE11.5"	120	132
4D	YC4D155-D33	4.21	直列 In-line	4	108×115	103	113	1800	增压中冷 Turbocharged & Intercooled	电控高压共轨 HPCR	SAE3#	90	100
	YC4D140-D33										SAE11.5"	80	90

# YC16VC 系列发电动力

## SERIES G-DRIVE DIESEL ENGINE



### YC16VC系列机型简介 / Brief Introduction

YC16VC系列发动机是玉柴自主研发的大功率V型产品。具有结构紧凑、性能优异、节能环保、可靠耐用等优点，排放污染物、动力性、经济性、可靠性指标达到国际先进水平。是数据中心、孤岛电站、大型商业中心及高端制造业企业等场所所用或备用机组理想的配套动力。

YC16VC series engine developed independently by Yuchai, is a high-power V-type product. It is characterized by compact structure, excellent performance, energy-saving and environment-friendly, and reliability and durability; the indexes, such as pollutant emission, dynamic performance, economy, and reliability, reach the international advanced level. It is an ideal power supply for prime or standby generator sets in data centers, isolated island generator set, large commercial centers and high-end manufacturing enterprises etc.



### 1800~2600kW发电机理想的配套动力 Power for 1800~2600kW Gensets



### YC16VC主要机型特点 / Features

- 机体采用高强度材料，弧面加强筋网格结构，四螺栓主轴承结构，刚度高，震动小，噪声低。
- 曲轴采用优质合金钢全纤维挤压锻造，轴径、圆角淬火热处理，抗磨，寿命长。
- 采用电控单体泵、四气门、高效增压中冷、三柴燃室技术，油耗低，排放少，调速性能出色，加峰快速有力。
- 一缸一盖结构，机体侧面开有维修窗口，维修方便。
- 采用世界一流的设备制造和生产技术，质量稳定可靠。
- 产品性能满足GB2820-HG3性能等级要求，排放满足GB 20891国III (T3) 的要求。

- High-strength material, reinforced grid structure with cambered surface, and 4-bolt main bearing structure are adopted for the engine body; thus the engine body is characterized by high stiffness, slight vibration, and lower noise.
- The crankshaft is made of high-quality alloy steel by using all fiber extrusion forging process, and the journal and circular head are subject to quenching heat treatment for improving wear resistance and prolonging service life.
- Electronic unit pump, four-valve structure, high-efficient turbo-charged intercooled, and Yuchai combustor technologies are adopted for realizing low fuel consumption, less emission, outstanding speed governing performance, and fast and high-quality loading.
- The structure of one head for one cylinder is adopted, maintenance window is set at the side of the engine body, which ensures easy maintenance.
- The world-class equipment and technologies are used for production; thus, the quality of such model is stable and reliable.
- In terms of product performance and emission, compliance with the requirements of G3 performance in GB2820 and the requirements of China III (T3) in GB 20891, respectively.

### YC16VC主要技术参数 / Technical Data Sheet

型号 Model	YC16VC3000-D31	YC16VC3300-D31	YC16VC3600-D31	YC16VC4000-D31
型式 Type	立式、V型、水冷、四冲程 Vertical, V-type, water-cooling, four-stroke			
吸气方式 Air intake mode	增压中冷 Turbocharged & Intercooled			
气缸数-缸径×行程 Cylinder quantity-bore×stroke (mm)	16-200×210			
总排量 Displacement (L)	105.56			
压缩比 Compression ratio	13.5:1			
常用功率/转速 Prime power/speed (kW/r/min)	2005/1500	2205/1500	2405/1500	2673/1500
备用功率/转速 Standby power/speed (kW/r/min)	2206/1500	2426/1500	2646/1500	2940/1500
最低燃油消耗率 Min. fuel consumption rate g/(kW·h)	≤195			
机油容量(干发动机) Oil capacity (dry engine) (L)	430			
机油比 Oil fuel ratio %	≤0.3			
启动方式 Start mode	电启动 Electric start			
燃油系统 Fuel system	电控单体泵 EUP			
噪声 Noise Lp dB(A)	≤106			
排放 Emission	非道路国 III Non-road T3			
外形尺寸(长×宽×高) Dimension (L×W×H) (mm)	3922×1913×2367 (不含水箱) (without radiator)			
柴油机油干重 Dry weight (kg)	11400			