



动力机械

POWER MACHINERY



一拖国际经济贸易有限公司
YTO INTERNATIONAL, LTD.

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公司简介

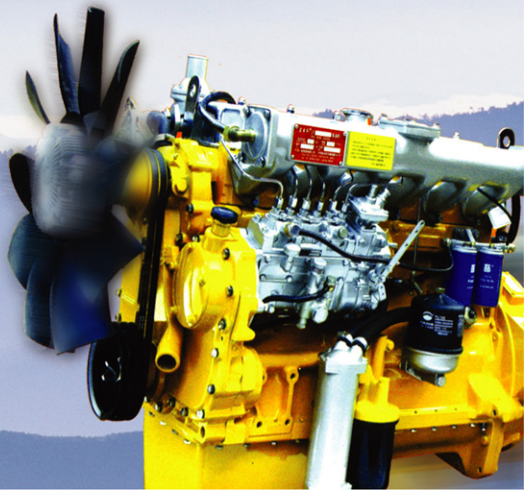
一拖国际经济贸易有限公司（简称一拖国贸）是一拖集团唯一的对外窗口，全面负责一拖集团的国际业务。一拖国贸开展广泛的国际合作，包括贸易、劳务输出、OEM、BOT，业务范围遍及全球92个国家和地区，与数百家国际知名公司保持长期友好合作。目前在亚洲、非洲、美洲、欧洲都建立了办事处、子公司、组装厂、备件中心等机构，形成了覆盖全球的营销服务网络，向用户提供优质的产品和完美的服务。

一拖国贸愿以诚挚的热情和高效的服务迎接海内外客户，共同开创美好未来。

Introduction to Corporation

YTO International, Ltd., a subsidiary of YTO Group, responsible for international business, has extended its operations to 92 countries/regions around the world and has established strong connections with hundreds of world-renowned companies. YTO Group has four core product segments: agricultural equipment, construction machinery, power machinery and vehicles. YTO strives to maintain a high level of international co-operation in the field of trade labour, export and OEM and BOT. It has established representative offices, subsidiaries, assembly plants and component centres in Asia, Africa, America and Europe. YTO's worldwide network is ready to provide high-quality products and efficient services to clients both at home and abroad.

Expecting the joint co-operation with you!



配套农业机械

Supporting Agricultural Machinery



采用三维有限元分析技术对主要部件进行全面优化设计，使用普通缸体和提高强度的干式缸体，为农业机械的动力配套拓展了更大的空间；辅以高效能的增压器和燃油喷射系统，功率覆盖70kW-132kW，最大扭矩输出可达到688N·m，无论工作环境多么恶劣都能轻松胜任；灵活的外部配置设计，预置的多个外接动力输出端口，为升级换代的各类农业机械提供集成化的动力平台；适配大中功率拖拉机，大中功率收获机械以及其它类农业机械。

The present model of diesel engine adopts the 3D finite element analysis technology to optimally design its main parts and components. It exploits ordinary cylinder block and strengthened dry-type cylinder block, which expands more space for the power support of agricultural machinery. It is assisted with a high-efficiency supercharger and a fuel injection system. The engines are qualified in any rough working environment with its power ranging from 70kW to 132kW and its maximum torque output reaching 688 N·m. It adopts a flexible design for its external configuration and presets several external PTO ports, providing an integrated power platform for various categories of updated agricultural machinery. It is suitable for supporting big-power and medium-power tractors, big-power and medium-power harvesting machinery and other kinds of agricultural machinery.

LR4105ZT/LR6105ZT/LR6108T/LR4108T/ LR6105ZWT 干式缸体/LR4105ZT 干式缸体

机型 Model	LR4105ZT		LR6105ZT	LR6108T	LR4108T	LR6105ZWT 干式缸体 Dry-Type Cylinder Body	LR4105ZT 干式缸体 Dry-Type Cylinder Body
形式 Type	直列、水冷、四冲程、直喷燃烧 In line, water-cooled, four-stroke, direct injection combustion chamber						
进气方式 Air intake mode	增压 Supercharged						
缸数×缸径×行程 Cylinder quantity× bore×stroke mm	4×105×125		6×105×125	6×108×125	4×108×125	6×105×125	4×105×125
排量 Displacement	L	4.33	6.49	6.87	4.94	6.49	4.33
压缩比 Compression ratio	16.2 : 1		16.2: 1			16.2 : 1	16.2 : 1
标定功率 Rated power	kW	70	100	92	65	132	88
标定转速 Rated rotational speed	r/min	2400	2300	≤2300	≤2400	2200	2400

YTR2105T/YTR3105T/YTR4105T

型号 Model		YTR2105T	YTR3105T	YTR4105T
气缸套型式 Cylinder liner type		湿式 Wet-type		
气缸数 Cylinder quantity		2	3	4
活塞总排量 Total displacement of the piston	L	2.078	3.117	4.156
标定转速率 Rated rotational speed	r / min	2200	2300	2300
12小时功率 12-hour power	kW	24. 5	38.9	51.5
扭矩储备系数 Torque reserve factor	%	≥15	≥15	≥15
柴油机外型尺寸(长×宽×高) Diesel engine overall dimensions (L×W×H)	mm	650×540×783	770×540×777	920×565×823



配套工程机械

Supporting Construction Machinery

国际著名的专业内燃机设计机构—英国里卡多公司精心设计的典范之作，工程机械行业广泛配套的系列机型；更宽的配套选择范围，四、六缸两大类机型提供从4.33L到7.01L六种排量，涵盖60kW-95kW功率段，优异的扭矩储备能力，峰值扭矩输出最大可达到470N·m；外部配置采用模块化配置方案，预置的多个外接动力输出端口，结合优异的低温冷启动特性，提供便捷可靠的集成动力平台；适配挖掘机、装载机、推土机、压路机、叉车以及其他施工设施。

It is a masterpiece elaborately designed by the British Ricardo Engineer Consulting Co., Ltd, a professional internal combustion engine designing institute with international renown. It is the supporting model series most widely adopted by construction machinery. It has a broader scope of supporting alternatives. The 4-cylinder type and the 6-cylinder type of diesel engines provide 6 kinds of displacement, ranging from 4.33 L to 7.01L, outputting a power of 60kW - 95kW. It has an excellent torque reserve capacity, whose maximum peak torque output can reach 470N·m. This engine adopts the modularized designing scheme for its external configuration and presets several external PTO ports, both of which and the excellent low-temperature cold-start feature provide a convenient and reliable integrated power platform. It is suitable for supporting excavators, loaders, bulldozers, road rollers, forklift trucks and other construction facilities.



采用三维有限元分析技术对主要部件进行全面升级设计。从普通缸体到增加强度的干式缸体，拓展普通配置到高级配置的更大可选范围；从普通增压到增压中冷（水/空、空/空）系列机型，覆盖70kW-132kW的宽广功率段，输出320-603N·m的扭矩；适配挖掘机、装载机、推土机、压路机、叉车以及其它施工设施。

The present model of diesel engine adopts the 3D finite element analysis technology to optimally design its main parts and components in an all-round way. It can exploit the ordinary cylinder block or the strengthened dry-type cylinder block, which expands the larger choice range from the ordinary configuration to the advanced configuration. It has a series of models from supercharged engines to supercharged intercooled (water/air, air/air) engines, with a broad power band ranging from 70kW to 132kW and a torque ranging from 320 N·m to 603N·m. It is suitable for supporting excavators, loaders, bulldozers, road rollers, forklift trucks and other construction facilities.



LR4105ZG /LR4105ZG干式缸体/LR4108G/ LR6105ZWG干式缸体/LR6108G/LR6105ZG

型号 Model	LR4105ZG	LR4105ZG干式缸体 Dry-Type Cylinder Body	LR4108G	LR6105ZWG干式缸体 Dry-Type Cylinder Body	LR6105ZG	LR6108G
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形式 Type	直列、水冷、四冲程、直喷燃烧室 In line,water-cooled, four-stroke, direct injection combustion chamber						
进气方式 Air intake mode	增压中冷 Supercharged intercooled						
缸数×缸径×行程 Cylinder Quantity× bore×stroke	mm	4×105×125	4×105×125	4×108×125	6×105×125	6×105×125	6×108×125
排量 Displacement	L	4.33	4.33	4.58	6.49	6.49	6.87
压缩比 Compression ratio		16.2:1	6.2:1		16.2:1	16.2:1	
标定功率 Rated power	kW	70	88	65	132	115	92
标定转速 Rated rotational speed	r/min	≤2400	1800	≤2400	2400	2400	≤2200



配套道路车辆

Supporting Road Vehicles



LR4105ZLQA/LR4105ZLQB

在英国里卡多公司技术基础上改进设计的系列柴油机,采用三维有限元分析技术对主要部件进行全面优化设计。从普通缸体到增加强度的干式缸体,提供普通配置到高级配置的更大可选范围;从普通增压到增压中冷(水/空、空/空)的全面升级机型,自105kW到165kW功率覆盖面,峰值扭矩输出达到780N·m。供油系统可选配 P7100 燃油泵或博世VE转子泵,以及P系列喷油器。增压器采用国际知名品牌产品。凝聚科技,推动进步;适配5-12T载货汽车, 7-11m客车及城市公交车辆。

1. It adopts the diesel engine series whose design has been improved on the basis of the British Ricardo Engineers Consulting Co., Ltd. It adopts the 3-D finite element analysis technology to optimally design the main parts and components in an all-round way. It may adopt the ordinary cylinder block or the strengthened dry-type cylinder block, providing a broader choice range from the ordinary configuration to the advanced configuration.
2. It adopts the all-round updated engine model series ranging from the ordinary supercharged to the supercharged intercooled (water/air, air/air), with the power coverage ranging from 105kW to 165kW and the peak torque output reaching N·m.
3. The oil supplying system may optionally select the P7100 fuel pump or the Bosch VE rotor pump and the P series of oil injectors. The supercharger is the product whose brand is internationally renowned. Therefore, it is a amalgamation of science and technology which in turn pushes its progress.
4. It is suitable for the 5-12t goods vehicles, the 7-11m passenger vehicles and municipal public traffic vehicles.



LR6105ZLQD/LR6105ZLQE/LR6105Q

1. 国际著名的专业内燃机设计机构—英国里卡多公司精心设计的典范之作。
2. 自然吸气机型提供6.49L排量。更宽的功率范围，从95kW到106kW。更优的低速大扭矩输出动力，1800r/min时即可输出405N·m扭矩，澎湃动力，源源不断。
3. 外部配置采用模块化配置方案，多样化配置以及多个外接动力输出端口，结合优异的低速冷启动性能，提供便捷的动力平台。
4. 适配2.5-6T载货汽车，6-8m客车及城市公交车辆。

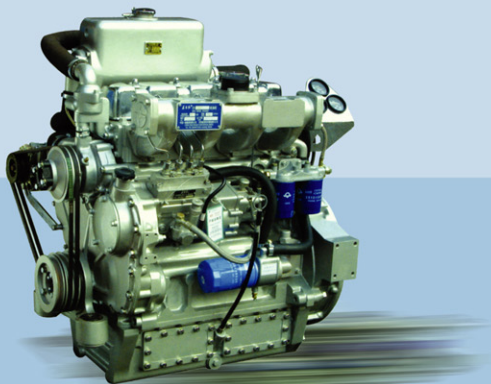
1. It is a masterpiece elaborately designed by the British Ricardo Engineer Consulting Co., Ltd, a professional internal combustion engine designing institute with international renown.
2. The naturally aspirated type of engine provides a displacement of 6.49L. Its broader power coverage ranges from 95kW to 106kW. Its low-speed large-torque PTO is more excellent, with a torque force of 405N·m at the rotational speed of 1800r/min, and the power is adequate and endless.
3. The external configuration adopts the modularized configuration scheme. The diversified configuration and the multiple external PTO ports as well as the excellent low-speed cold-start performance can provide a convenient power platform.
4. It is suitable for the 2.5-6t goods vehicles, the 6-8m passenger vehicles and municipal public traffic vehicles.

型号 Model		LR4105ZLQA	LR4105ZLQB	LR6105ZLQD	LR6105ZLQE	LR6105Q
形式 Type		直列、水冷、四冲程、直喷燃烧室 In line, water-cooled, four-stroke, direct injection combustion chamber				自然吸气
进气方式 Air intake mode		增压中冷 Supercharged intercooled				
缸数×缸径×行程 Cylinder quantity	mm	4×105×120	4×105×125	6×105×125	6×105×125	6×105×125
排量 Displacement	L	4.16	4.33	6.49	6.49	6.49
压缩比 Compression ratio		17: 1	18.5: 1	16.2: 1	16.2: 1	17: 1
标定功率 Rated power	KW	104	105	108	118	106
标定转速 Rated rotational speed	r/min	2800	2500	2600	2600	2800



配套船舶主机

Supporting Marine Main Engines



国际著名的专业内燃机设计机构—英国里卡多公司精心设计的典范之作,运用三维有限元分析技术对主要部件进行全面优化设计。从普通缸体到增加强度的干式缸体,提供一般配置到高端配置的更大可选范围。从普通增压到高端的增压中冷系列机型,具有优良的恒转速恒功率动力输出能力。功率覆盖面宽,从50kW到100KW。升级设计的进气系统和燃油喷射系统,高效的单独中冷水循环系统,以及预置的多个外接动力输出端口,为各类船舶提供高度集成的动力平台。适配货船、渔船、游船、快艇主机及船用各类辅机。

1. It is a masterpiece elaborately designed by the British Ricardo Engineer Consulting Co., Ltd, a professional internal combustion engine designing institute with international renown. It adopts the 3-D finite element analysis technology to optimally design its main parts and components in an all-round way. It can adopt the ordinary cylinder block or the strengthened dry-type cylinder body, providing a broader choice range from the ordinary configuration to the advanced configuration.
2. This model series can be ordinary supercharged or advanced supercharged intercooled, featuring with excellent constant rotational speed constant power PTO capacity, providing a broader power coverage, ranging from 50 kW to 100 kW.
3. The updated design air intake system and the fuel injection system, the high efficiency separate intercooled water circulation system, and the several preset external PTO ports provide various kinds of ships with a highly integrated power platform.
4. They are suitable to be used as the main engines of cargo ships, fishing vessels, yachts and speed boats and as the various auxiliary marine engines.



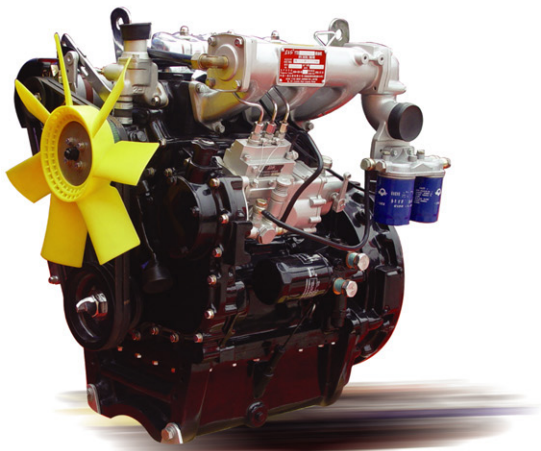
LR4105ZWC/LR6105ZWC

型号 Model		LR4105ZWC	LR6105ZWC
形式 Type		直列、水冷、四冲程、直喷燃烧室 In line, water-cooled, four-stroke, direct injection combustion chamber	
进气方式 Air intake mode		增压中冷 Supercharged intercooled	
缸数×缸径×行程 Cylinder quantity×bore×stroke	mm	4×105×125	6×105×125
排量 Total of the piston	L	4.33	6.49
压缩比 Compression ratio		16.2:1	16.2:1
标定功率 Rated power	kW	65	100
标定转速 Rated rotational speed	r/min	1500	1500



配套发电机组

Supporting Generator Sets



LR4105ZD/LR6105ZID

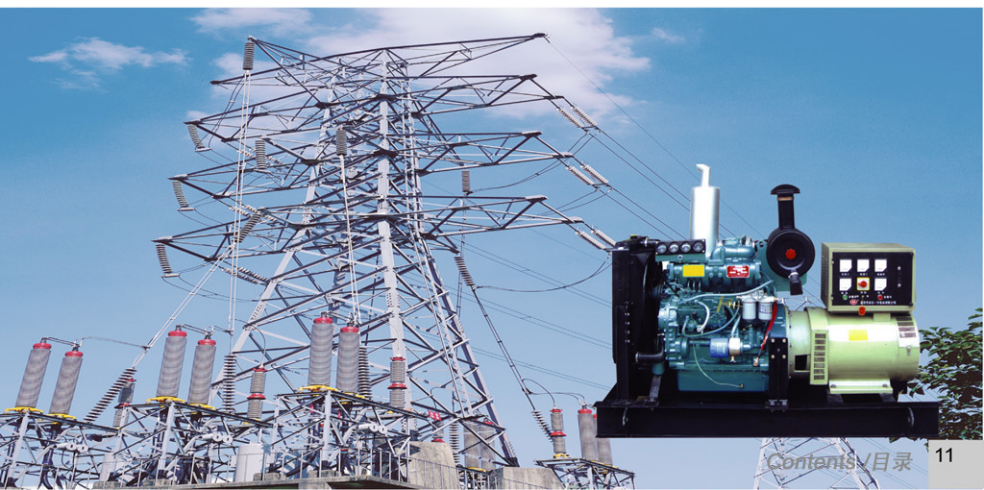
运用三维有限元分析技术全面升级设计的系列机型，拓展从普通配置到高级配置得更宽可选范围；可采用普通缸体到增加强度的干式缸体，从普通增压到高端的增压中冷系列机型，功率范围60kW-120kW，具有优良的恒功率动力输出特性；优化设计的进气系统和燃油喷射系统，独特的单独中冷水循环系统，卓越的低温冷启动能力，适应4500米以上海拔地区恶劣环境中的使用；适配各种固定电站、移动电站、拖式电站及船用发电机组。

It is a model series whose design is updated in an all-round way by adopting the 3D finite element analysis technology, thus expanding the larger choice range from the ordinary configuration to the advanced configuration. It can exploit the ordinary cylinder block or the strengthened dry-type cylinder block, and it can adopt the ordinary supercharged engines to the sophisticated supercharged intercooled models of engines, with a broad power band ranging from 60kW to 120kW and the excellent constant PTO characteristic. It adopts the optimally designed air intake system fuel injection system, and the independent single intercooled water circulation system, whose low-temperature cold-start capacity is outstanding and thus the product is suitable for operations in formidable environments whose altitude is over 4,500m. The product is suitable for supporting various kinds of fixed power stations, mobile power stations, towed power stations and marine generator sets.

1. 在英国里卡多公司技术基础上改进设计的系列柴油机。运用三维有限元分析技术对主要部件进行全面优化设计。
2. 四、六缸两大类机型提供五种排量供选择。优异的恒转速变功率动力输出特性，功率从40kW到65kW的宽广范围。
3. 优良的低温冷起动性能，以及加强的冷却系统，模块化集成的外部配置，整机结构紧凑，方便维护。
4. 适配各种固定电站、移动电站、拖式电站及船用发电机组。

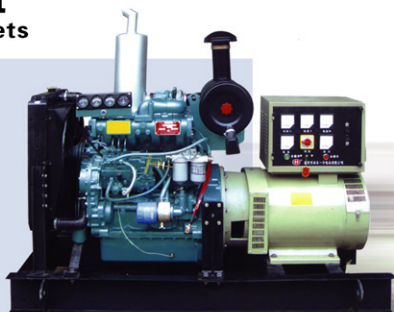
1. It is a diesel engine series whose design is updated on the basis of technologies from the British Ricardo Engineer Consulting Co., Ltd. It adopts the 3-D finite element analysis technology to optimally design its main parts and components in an all-round way.
2. The 4-cylinder model and 6-cylinder model can provide 5 kinds of displacement for you to select. The excellent constant rotational speed variable power PTO characteristic provides a broad power range from 40kW to 65kW.
3. It has an excellent low-temperature cold-start function, a reinforced cooling system, a modularized integrated external configuration and a compact complete machine structure, all of which are convenient for maintenance.
4. The product is suitable for supporting various kinds of fixed power stations, mobile power stations, towed power stations and marine generator sets.

型号 Mode		1LR4105ZD	LR6105ZLD
形式 Type		直列、水冷、四冲程、直喷燃烧室 In line, water-cooled, four-stroke, direct injection combustion chamber	
进气方式 Air Intake mode		增压中冷 Supercharged intercooled	
缸数×缸径×行程 Cylinder quantity×bore×stroke	mm	4×105×125	6×105×125
排量 Total displacement of the piston	L	4.33	6.49
压缩比 Compression ratio		16.2: 1	16.2: 1
船用标功率 Rated marine power	kW	50	110
船用标转速 Rated marine rotational speed	rpm	1500	1500



发电机组

Generator Sets



120GF/150GF/200GF/300GF/350GF

发电机Generator		120GF	150GF	200GF	300GF	350GF
额定功率 Rated power	Kw	120	150	200	300	350
额定电压 Rated voltage	V	400/230	400/230	400/230	400/230	400/230
频率 Frequency	Hz	50	50	50	50	50
额定电流 Rated current	A	216.5	271.2	360.8	541	631.5
功率因素 Power factor		0.8	0.8	0.8	0.8	0.8
相数及接法 Phase quantity and connection method	三相四线 Three-phase four-wire system					
励磁方式 Excitation mode	有刷 Brush excitation		无刷 Brushless excitation			
启动方式 Start mode	电启动 Electric start					
整机Complete machine						
外形尺寸 Overall dimensions (L×W×H)	mm	2870×950×1900	3350×900×1650	3480×1000×1640	3840×1900×2200	4800×1660×2420
质量 Mass	kg	3060	2800	3500	3800	4200
冷却方式 Cooling mode	闭式水冷 Closed-type hydrocooling					

发电机Generator		24GF	30GF	90GF	50GF	75GF
额定功率 Rated power	Kw	24	30	90	50	75
额定电压 Rated voltage	V	400/230	400/230	400/230	400/230	400/230
频率 Frequency	Hz	50	50	50	50	50
额定电流 Rated current	A	43	54.1	162.4	90.2	135
功率因素 Power factor		0.8	0.8	0.8	0.8	
相数及接法 Phase quantity and Connection method		三相四线 Three-phase four-wire system				
励磁方式 Excitation mode		有刷 Brush excitation				
启动方式 Start mode		电启动 Electric start				
额定转速 Rated rotational speed r/min		1500	1500	1500		
整机Complete machine						
外形尺寸 Overall dimensions (L×W×H)	mm	1830×715×1550	1950×753×1550	2770×950×1900	1980×735×1220	2700×9004×1350
质量 Mass	kg	850	900	2400	1220	2350
冷却方式 Cooling mode		闭式水冷 Closed-type hydrocooling				

24GF/30GF/90GF/50GF/75GF



普通、移动、自动、自投自切和电脑遥控可满足不同用户的要求。选用知名品牌的柴油机，可靠性高，动力输出稳定可靠，燃油消耗率低，经济性好。发电机可采用先进的自动电压调节器（AVR），保证机组在任何条件下可靠的运行。模块化控制，一体化结构，完善可靠的报警保护功能。可选的永磁发电机励磁系统，在各种情况下可提供恒定电压。

Its features of being common, mobile, automatic motion, automatic starting and computer remote control can meet the demands of different users. It selects the famous brand diesel engine, which is high in its reliability, stable and reliable in it PTO, low in its fuel consumption rate, and desirable in its economic efficiency. The generator adopts the advanced automatic voltage regulator (AVR), which guarantees that the generator set can work reliably in any circumstances. It is also featured with modularized control, integrated structure, and consummate and reliable alarm and protection functions. The optional excitation system of the magneto generator can provide constant voltage in any circumstances.

YTO, together with you

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澳洲部: Australia Dept.	62799023	北美部: North America Dept.	62799018	家居部: Household Appliances Dept.	62799096

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