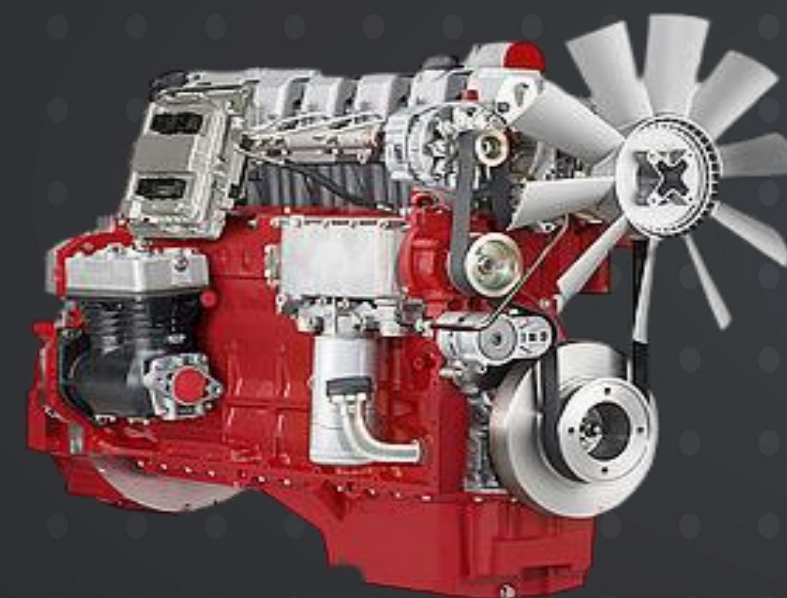




大连一柴

欧洲标准 德国品质
EU STANDARD GERMAN QUALITY



大连一柴内燃机有限公司
Dalian Yichai Internal Combustion
Engine Co., Ltd
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发动机总装、再制造专家 DDC

Expert in engine assembly and engine remanufacturing DDC

大连一柴内燃机有限公司 (DDC)

Dalian Yichai Internal Combustion Engine Co., Ltd.

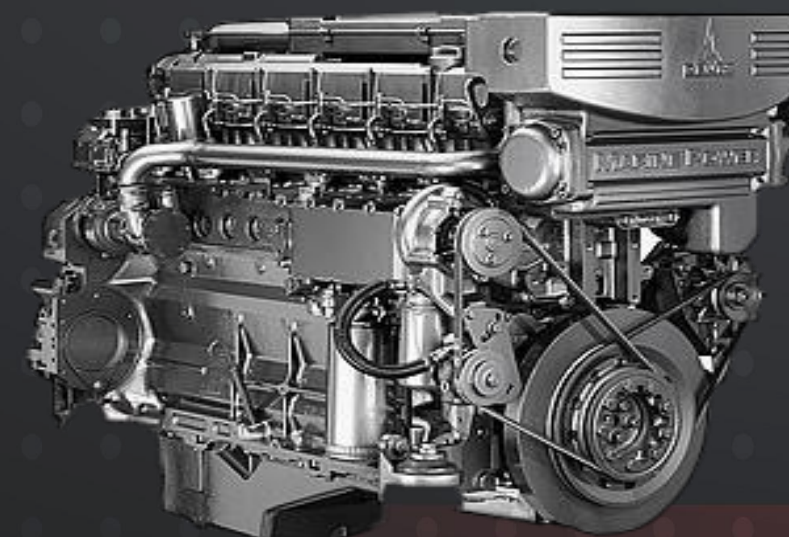
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世界动力财富引擎

WORLD POWER FORTUNE ENGINE

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公司简介

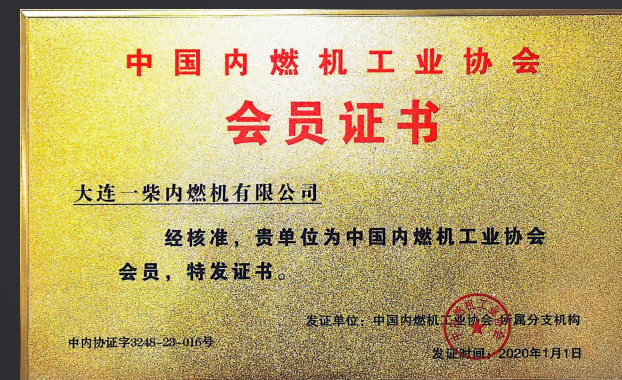
Brief Introduction

大连一柴内燃机有限公司创立于2007年。顺应国家绿色发展、节能减排的发展理念，2016年起成功转型，成为一家专注于柴油机总装与再制造生产研发、开发、生产及销售于一体的内燃发动机制造企业。主营产品覆盖大柴自有系列、德国道依茨及沃尔沃柴油机等。公司现有员工90多人，其中技术管理人员16名。公司设计产能为年产各类柴油机新机总装5000台，再制造2000台以上。

公司产品包含道依茨BF4/6M2012、BF4/6M1013、TCD2012L06/042V、TCD2013L04/062V/4V、沃尔沃D4D/E、D5D/E、D6D/E、D7D/E、D8K及遍达TAD520、TAD720、TAD750、TAD760等替代品，功率覆盖30-220千瓦。产品具有先进，高效和可靠等优势，为各种汽车、工程机械、船舶、发电机等设备提供核心动力。

Dalian Yichai Internal Combustion Engine Co., Ltd. was founded in 2007. In line with the country's development philosophy of green development, energy conservation and emission reduction, a successful transition began in 2016, become a diesel engine manufacturing enterprise which focus on diesel engine assembly and remanufacturing, R & D, development, production and sales. Main products cover diesel own series, Köln-deutz and Volvo diesel engines. The company has more than 90 employees, including 16 technical management personnel. Company design capacity for the annual output of various types of new diesel engine assembly 5000 sets, and then more than 2000 sets.

The company's products include Köln-deutz BF4/6M2012, BF4/6M1013, TCD2012L06/042V, TCD2013L04/062V/4V, Volvo D4D/E, D5D/E, D6D/E, D7D/E, D8K, Tad520, Tad720, Tad750, Tad760 and other substitutes, power coverage of 30-220 kilowatts. Products with advanced, efficient and reliable advantages, For a variety of automobiles, construction machinery, ships, generators and other equipment to provide the core power.





产品优势

Advantages in product

- ▶采用经过欧洲市场15年验证的单体泵结构，性能稳定，可靠性高；
- ▶针对国内外市场进行适应性开发，满足各类工程机械产品需求；
- ▶应用开发模块化、定制化，为客户提供全面的动力解决方案；
- ▶针对工程机械产品进行专项性能开发，经济性好，使用成本低；
- ▶动力强劲，扭矩储备大，工作效率高；
- ▶精密设计，故障率低，超长使用寿命；
- ▶整体降噪减振设计，无需辅助的降噪减振手段，振动小，噪音低，舒适性好；
- ▶结构紧凑，发动机维护保养点集中，易于操作；

▶Unit pump design provides stable performance and high reliability, which has been proven in European markets for more than 15 years.

▶ Optimized for local and abroad market requirements and satisfy various industrial purpose.

▶Customized and modular engines -large number of choices for customer.

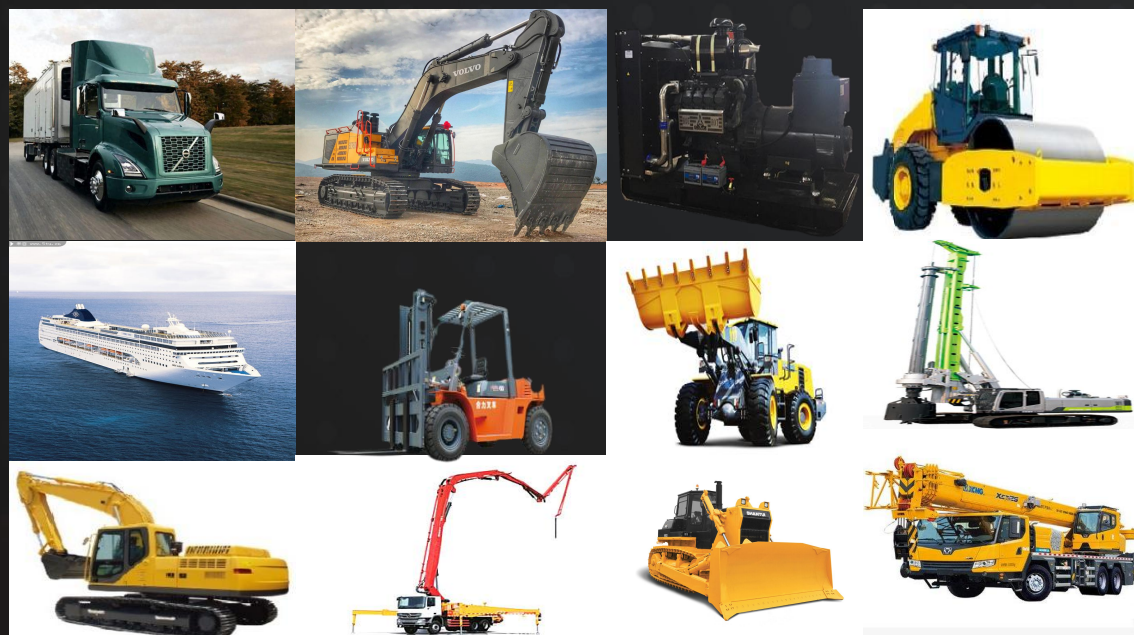
▶Economical and cost effective, special developed for industrial purpose.

▶Reliable and durable design combining high power density and torque reserves.

▶ Precise design, low failure rate and longer life.

▶Lower engine noise level without additional auxiliaries, lower vibration, better adaptability.

▶Compact engine design provides easy maintenance access -engine maintenance side provides all relevant service points, easy operation.



DDC 产品配套品牌

DDC products supporting brand



阿特拉斯·科普柯集团公司
Atlas Copco Group Corporation



保定北奥石油物探特种车辆制造有限公司
Baoding Beiao Special Vehicle Manufacturing Co., Ltd.



安徽合力股份有限公司
Anhui HeLi Co., Ltd.



山东临工工程机械有限公司
Shandong Lingong Construction Machinery Co., Ltd.



利勃海尔机械(大连)有限公司
Liebherr Machinery (Dalian) Co., Ltd.



三一重工股份有限公司
Sany Heavy Industry Co., Ltd.



上海施维英机械制造有限公司
Schwing Shanghai Machinery Co., Ltd.



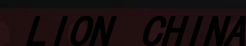
海厦集团成员企业
CORE 海厦集团成员企业
厦门工程机械有限公司
Xiamen XGMA Machinery Co., Ltd.



中国一拖集团有限公司
YTO Group Corporation



泰豪科技股份有限公司
Tellhow So-tech Co., Ltd.



莱恩农业装备有限公司
Lion Agricultural Equipment Co., Ltd.



宝马格(中国)工程机械有限公司
Bomag (China) Construction Machinery Co., Ltd.



鼎盛天工工程机械有限公司
Dingsheng Tiangong Construction Machinery Co., Ltd.



广西柳工机械股份有限公司
LiuGong Machinery Co., Ltd.



上海鸿得利重工股份有限公司
Shanghai Hold Heavy Industry Co., Ltd.



福田雷沃重工国际股份有限公司
Foton Lovol International Heavy Industry Co., Ltd.



山河智能机械股份有限公司
Sunward Intelligent Equipment Co., Ltd.



山推工程机械有限公司
Shantui Construction Machinery Co., Ltd.



徐工工程机械集团股份有限公司
XCMG Group Corporation



长沙中联重工科技发展股份有限公司
Zoomlion Heavy Industry Science & Technology Development Co., Ltd.



中国兵器工业集团公司
China North Industries Group Corporation



中国铁建

昆明中铁大型养路机械集团有限公司
China Railway Large Maintenance Machinery Co., Ltd.



奔马富利(佛山)动力设备有限公司
Pramac FuLee (Foshan) Power Equipment



方圆集团有限公司
FangYuan Group Corporation



浙江杭叉工程机械集团股份有限公司
Hang cha Group Co., Ltd.



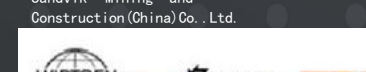
中国龙工控股有限公司
Lonking Holdings Co., Ltd.



普茨迈斯特机械(上海)有限公司
Putzmeister Machinery (shanghai) Co., Ltd.



山特维克矿山工程机械有限公司(中国)有限公司
Sandvik Mining and Construction (China) Co., Ltd.



维特根(中国)机械有限公司
Wirtgen (china) Machinery Co., Ltd.



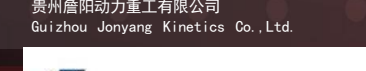
中交西安筑路机械有限公司
CCCC XIAN Road Construction Machinery Co., Ltd.



中国国际海运集装箱(集团)股份有限公司
China International Marine Containers (Group) Ltd.



贵州詹阳动力重工有限公司
Guizhou Jonyang Kinetics Co., Ltd.



陕西建工集团总公司

SHANXI CONSTRUCTION ENGINEERING GROUP CORPORATION
Shaanxi Construction Engineering Group Corporation

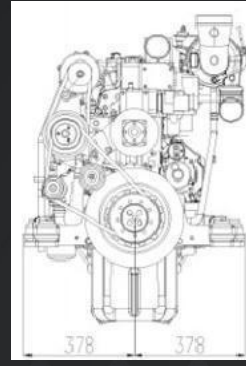
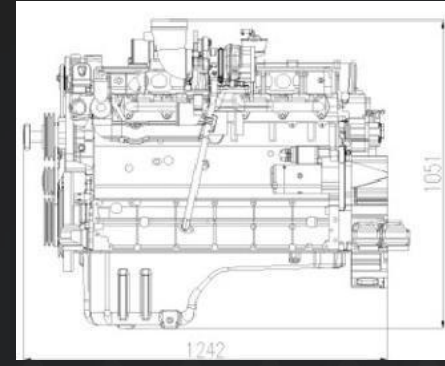


BF6/4M1013-Tier2

系列柴油发动机

产品概述

大连一柴内燃机有限公司 (DDC) 生产的道依茨BF6/4M1013系列发动机。凭借创新的研发科技, 先进的制造技术以及与客户需求的完美融合, 产品满足国II/Tier2 排放法规要求, 在可靠性, 动力性和经济性上具有显著优势。



产品优势

- ▶ 采用经过欧洲市场15年验证的单体泵结构, 性能稳定, 可靠性高;
- ▶ 针对国内外市场进行适应性开发, 满足各类工程机械产品需求;
- ▶ 应用开发模块化、定制化, 为客户提供全面的动力解决方案;
- ▶ 针对工程机械产品进行专项性能开发, 经济性好, 使用成本低;
- ▶ 动力强劲, 扭矩储备大, 工作效率高;
- ▶ 精密设计, 故障率低, 超长使用寿命;
- ▶ 整体降噪减振设计, 无需辅助的降噪减振手段, 振动小, 噪音低, 舒适性好;
- ▶ 结构紧凑, 发动机维护保养点集中, 易于操作;

技术参数

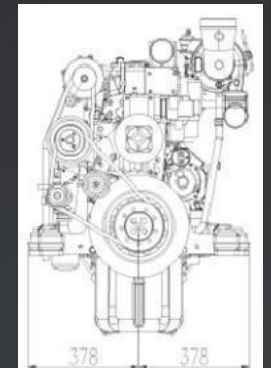
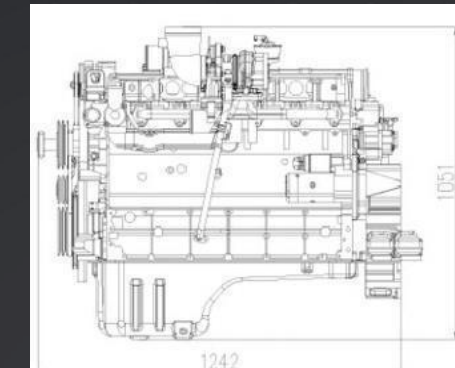
型号	BF6M1013 EC	BF6M1013 ECP	BF6M1013 FC	BF4M1013 EC	BF4M1013 FC
进气方式	增压中冷				
排量(L)	7.2			4.8	
缸径(mm)x行程(mm)	108x130				
额定功率(kW)/转速(r/min)	174/2300	195/2300	206/2300	118/2300	129/2300
最大扭矩(N·m)/转速(r/min)	854/1400	954/1400	1050/1400	577/1400	700/1400
燃油系统	单体泵(可选电控)				
油耗(g/kW-h)	≤208			≤210	
噪声(声压级)dB(A)	≤98			≤96	
排放	国II/Tier2				
整机重量(kg)	650			500	
长(mm)x宽(mm)x高(mm)	1242x756x1051			1009x692x1052	

BF6/4M1013-Tier2

Diesel engine

Product Overview

BF6/4M1013 series engine of Köln-deutz produced by Dalian Yichai Internal Combustion Engine Co., Ltd. (DDC). With innovative R & D technology, Advanced Manufacturing Technology and perfect integration with customer needs, the products meet the requirements of National II/TIER2 emission regulations and have significant advantages in reliability, power and economy.



Advantages in product

- ▶ Unit pump design provides stable performance and high reliability, which has been proven in European markets for more than 15 years.
- ▶ Optimized for local and abroad market requirements and satisfy various industrial purpose.
- ▶ Customized and modular engines - large number of choices for customer.
- ▶ Economical and cost effective, special developed for industrial purpose.
- ▶ Reliable and durable design combining high power density and torque reserves.
- ▶ Precise design, low failure rate and longer life.
- ▶ Lower engine noise level without additional auxiliaries, lower vibration, better adaptability.
- ▶ Compact engine design provides easy maintenance access - engine maintenance side provides all relevant service points, easy operation.

Main Technical Parameters

type	BF6M1013 EC	BF6M1013 ECP	BF6M1013 FC	BF4M1013 EC	BF4M1013 FC
Aspiration	charge air cooling				
Displacement(L)	7.2			4.8	
Bore(mm)xStroke(mm)	108x130				
Power(kW)/Speed(r/min)	174/2300	195/2300	206/2300	118/2300	129/2300
Torque(N·m)/Speed(r/min)	854/1400	954/1400	1050/1400	577/1400	700/1400
Fuel Injection System	Unit pump(electronic control optional)				
Fuel consume rate(g/kW-h)	≤208			≤210	
Noise dB(A)	≤98			≤96	
Emission level	China II/Tier2				
Weight(kg)	650			500	
L(mm)xB(mm)xH(mm)	1242x756x1051			1009x692x1052	

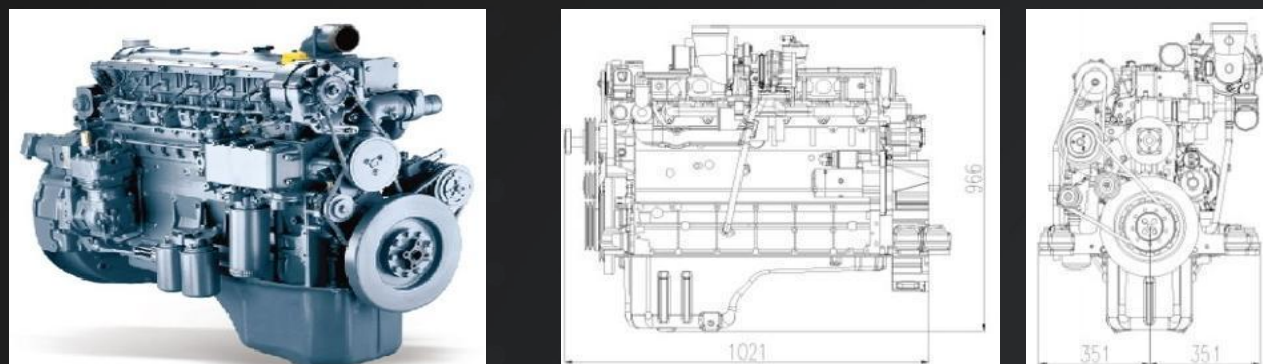


BF6/4M1013-Tier3

系列柴油发动机

产品概述

要实现非道路三阶段排放标准，柴油机必须有更精确的喷油时刻控制，以及EGR 技术来保证；大连一柴(DDC)生产的BF6/4M1013系列产品是结合DEUTZ 非道路二、三阶段和车用欧四等技术优势，针对工程机械等非道路设备的工作特点，历经三年的试验验证，同时经过两年的国内外市场验证，并获得欧盟排放认证的高性能柴油机。



产品优势

- 通用性：与二阶段产品的零部件通用程度达到95%以上，整车接口完全一致；产品市场使用和维护成本低，盈利效率高；
- ▶可靠性：严格遵照DEUTZ 的产品开发和试验验证流程，保证产品具有德国品质；同时经过国内外各级柴油油品的市场验证，耐久性好、可靠性高；
- ▶适应性：具备丰富的功能策略，确保整车的动力性、稳定性、安全性、经济性；
- ▶内置 EGR(internal EGR) 外型结构简单，适应稳定的中高转速大负荷工况；外置冷却 EGR(external-cooling EGR) 易于控制，适用于对低速性能要求较高的整机加速性、动力性；
- ▶三个动力输出（PTO）口，除飞轮之外可输出总功率50kW；
- ▶多种增压器位置、朝向，适应不同的进排气方案；
- ▶SAE1~4#、独立湿式飞轮壳，适应多种变矩器、液压泵连接方式；

技术参数

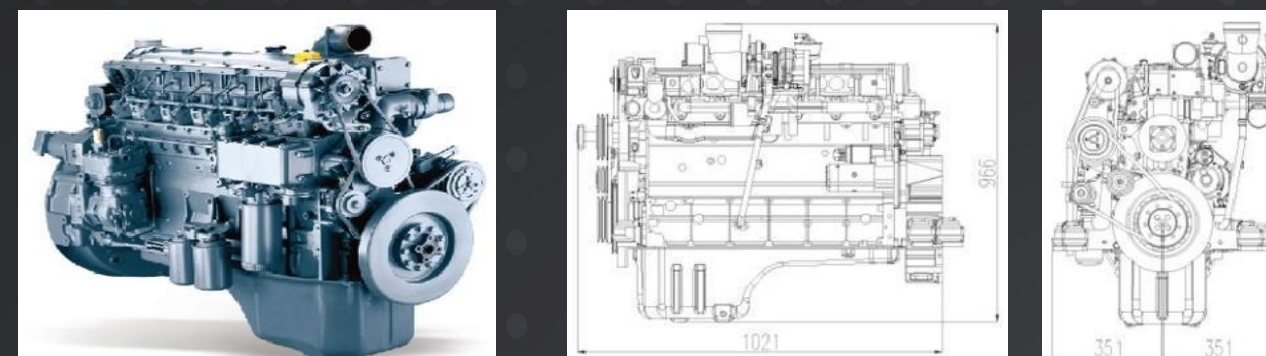
型号	BF6M1013-T3	BF6M-7.84V	BF4M1013-T3		
进气方式	增压中冷				
排量(L)	7.2	7.8	4.8		
缸径(mm)x行程(mm)	108x130	110x136	108x130		
额定功率(kW)/转速(r/min)	150-200/1800-2300	160-235/1800-2200	112-129/2200-2300	110-129/2000-2100	
最大扭矩(N·m)/转速(r/min)	855-1050/1000-1500	1200/1450	593-670/1600	576-650/1300	536/1000
燃油系统	电控单体泵、内/外部废气再循环	电控单体泵、外部废气再循环	电控单体泵、内部废气再循环		
油耗(g/kWh)	≤212	≤205	≤212		
噪声(声压级)dB(A)	≤98		≤96		
排放	国III/Tier3	国IV/Tier3	国III/Tier3		
整机重量(kg)	612	680	443		
长(mm)x宽(mm)x高(mm)	1021x702x966	1214x793x1046	971x688x928		

BF6/4M1013-Tier3

Diesel engine

Product Overview

To achieve non-road three-stage emission standards, diesel engines must have more accurate fuel injection timing control, as well as EGR technology to ensure; The BF6/4M1013 series products produced by DDC Combine Deutz non-road second and third stages and Euro IV technology advantages, aiming at the working characteristics of construction machinery and other non-road equipment, and have been tested and verified for three years, at the same time after two years of domestic and foreign market certification, and the European Union emissions certification of high-performance diesel engines.



Advantages in product

- ▶Commonality:the degree of parts commonality with Tier2 can achieve more than 95%and the vehicle interface is consistent completely.
- ▶Reliability:strictly follow DEUTZ process of development and test verification to guarantee German quality.
- ▶adapatability:
 - ▶ Electrical control system possesses abundant function strategies(see details in Electrical Controlling Agreement)to ensure the power, stability, safety and economy of vehicle.
 - ▶ Three power delivery outlets and total output power is 50kW except for flywheel.
 - ▶ Different turborcharger positions and faces to adapt different air inlet&outlet solutions.
 - ▶SAE1~4#and independant damp flywheel housing to adapt variant connecting ways of torque converter and hydraulic pump.
 - ▶ Internal EGR with simple outline structure can stably adapt big load working condition with middle&high speed; external-cooling EGR is easy to be controlled and adaptable for acceleration and power of vehicle which has high requirements on performance with low speed.

Main Technical Parameters

type	BF6M1013-T3	BF6M-7.84V	BF4M1013-T3		
Aspiration	charge air cooling				
Displacement(L)	7.2	7.8	4.8		
Bore(mm)xStroke(mm)	108x130	110x136	108x130		
Power(kW)/Speed(r/min)	150-200/1800-2300	160-235/1800-2200	112-129/2200-2300	110-129/2000-2100	
Torque(N·m)/Speed(r/min)	855-1050/1000-1500	1200/1450	593-670/1600	576-650/1300	536/1000
Fuel Injection System	Electronic Unit Pump, Internal/External Exhaust Gas Recirculation	Electronic Unit Pump, External Exhaust Gas Recirculation	Electronic Unit Pump, Internal Exhaust Gas Recirculation		
Fuel consumption rate(g/kWh)	≤212	≤205	≤212		
Noise dB(A)	≤98		≤96		
Emission level	China III/Tier3	China IV/Tier3	China III/Tier3		
Weight(kg)	612	680	443		
L(mm)xB(mm)xH(mm)	1021x702x966	1214x793x1046	971x688x928		

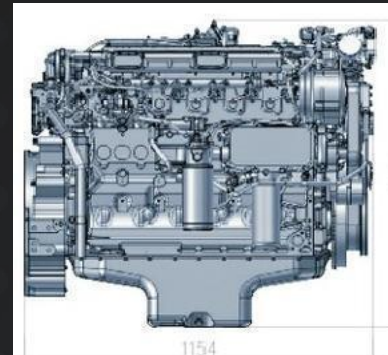
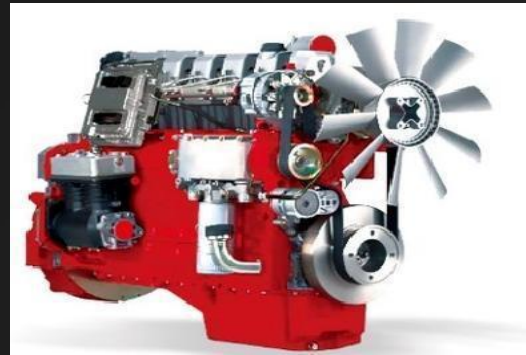


TCD 2013 L6/L4 2V-Tier3

系列柴油发动机

产品概述

大连一柴内燃机有限公司 (DDC) 引进的德国道依茨TCD 系列产品, 以共轨喷油系统及电控系统和智能化的动力输出, 充分表现低油耗、低噪音, 高性能、高效率的优越品质, 满足全球非道路用发动机的需求。



产品优势

- ▶ 在经济性及可靠性方面表现优越, 并有超过8年的非道路用设备全球市场验证;
- ▶ 极端环境下具备最好的冷启动功能;
- 优化机构零部件实现低噪音, 高等级排放, 具备高耐久性和高效盈利的市场表现;
- ▶ 紧凑的设计, 与齿轮传动结合一体的三种PTO 驱动方式, 减少安装成本, 同时提高应用性;
- ▶ 与BF系列零部件通用性较好, 维护、使用成本低, 用户盈利快;
- ▶ 适用于世界范围内的操作, 甚至经硫化的燃油也不影响其可靠性数据;

技术参数

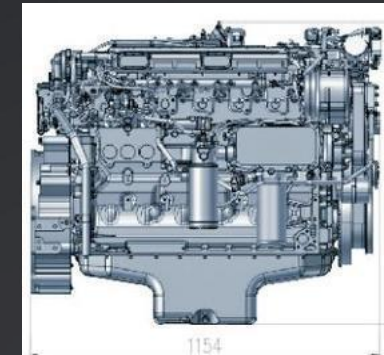
型号	TCD2013 L6 2V	TCD2013 L4 2V	
进气方式	增压中冷	增压中冷	
排量(L)	7.2	4.8	
缸径(mm) x行程(mm)	108x130	108x130	
额定功率(kW) / 转速(r/min)	130-200/1800-2300	70-104/2100-2300	75-129/2000-2300
最大扭矩(N·m) / 转速(r/min)	1050/1500	565-670/1600	
燃油系统	共轨、内部废气再循环		
油耗(g/kW-h)	≤205	≤208	
噪声(声压级) dB(A)	≤98	≤96	
排放	EU StageIIIA/US EPA Tier3	EU StageIIIA/US EPA Tier3	
整机重量(kg)	610	500	
长(mm) x宽(mm) x高(mm)	1154x694x991	857x638x870	

TCD 2013 L6/L4 2V-Tier3

Diesel engine

Product Overview

The TCD engines made by Germany introduced by DDC has prominent advantages of low oil consumption, low noise, high performance and high efficiency with common-rail injection system, electrical control system and intellectual PTO to meet global demand for off-road engine.



Advantages in product

- ▶ The powerful DEUTZ Common-Rail (DCR®) injection system and the electronic engine control (EMR 3) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- ▶ Best cold starting properties even under extreme conditions.
- ▶ Low noise emissions due to acoustically optimized components with very smooth running and high durability.
- ▶ The compact engine design and three PTO drive possibilities integrated into the gear drive reduce the installation costs and increase the number of applications.
- ▶ Wet cylinder liners, long oil change intervals and easy changing of the engine fluids reduce the running and service costs and increase the availability of the machinery.
- ▶ The robust engine design allows worldwide operation even with high sulphur fuels.

Main Technical Parameters

type	TCD2013 L6 2V	TCD2013 L4 2V	
Aspiration	charge air cooling	charge air cooling	
Displacement(L)	7.2	4.8	
Bore(mm) xStroke(mm)	108x130	108x130	
Power(kW) /Speed(r/min)	130-200/1800-2300	70-104/2100-2300	75-129/2000-2300
Torque(N·m) /Speed(r/min)	1050/1500	565-670/1600	
Fuel Injection System	Common Rail, Internal Exhaust Gas Recirculation	Common Rail, Internal Exhaust Gas Recirculation	
Fuel consume rate(g/kW-h)	≤205	≤208	
Noise dB(A)	≤98	≤96	
Emission level	EU StageIIIA/US EPA Tier3	EU StageIIIA/US EPA Tier3	
Weight(kg)	610	500	
L(mm) xB(mm) xH(mm)	1154x694x991	857x638x870	



匹配参考

References by application

设备	类别	柴油机平台	功率	速度
CONCRETE PUMP	APPLICATION	PLATFORM	POWER	SPEED
混凝土泵 Concrete Pump	拖泵	BF6M 1013 EC	174kW	2300rpm
	Trailer-mounted Concrete pump	BF6M 1013 ECP	195kW	2300rpm
	车载泵	BF6M 1013 EC	174kW	2300rpm
	ICK ountfec Concrete pump	BF6M 1013 ECP	195kW	2300rpm

额定斗容50~130立方米/小时
Rated volume 50~130m³/h

额定压力10~18Mpa
Rated pressure 10~18Mpa



路面机械	类别	柴油机平台	功率	速度
Road Equipment	APPLICATION	PLATFORM	POWER	SPEED
路面机械 Road Equipment	压路机	BF6M 1013 EC	174kW	2300rpm
	Vibration Motor grade	BF6M 1013 ECP	174kW	2300rpm
	铣刨机	BF6M 1013 EC	157kW	2300rpm
	Milling machining	BF6M 1013 ECP	180kW	2300rpm
	摊铺机	BF6M 1013 EC	165kW	2300rpm
	Paver	BF6M 1013 ECP	186kW	2300rpm

工作质量24~30T
Working mass 24~30T

铲刀长度3660;3965mm

Blade of grader width 3660;3965mm

铣刨宽度800~1200mm

Milling width 800~1200mm

摊铺宽度9.5~13m

Paving width 9.5~13m



挖掘机 Excavator	挖掘机	BF6M 1013 EC	165kW	2300rpm
	Excavator	BF6M 1013 ECP	186kW	2300rpm
		BF6M 1013 FC	190kW	2300rpm

工作质量24~29T

Working mass 24~29T

斗容范围1.2~1.4立方米

Rated vloume 1.2~1.4m³



匹配参考

References by application

设备	类别	柴油机平台	功率	速度
SEGMENT	APPLICATION	PLATFORM	POWER	SPEED
装载机 WheelLoader	轮式装载机 WheelLoader	3F6M 1013 EC	174kW	2300rpm
		3F6M 1013 ECF	195kW	2300rpm
		3F6M 1013 FC	200kW	2300rpm

额定载重量5T、6T
Rated duty 5T, 6T



矿机 Mining Machine	旋挖钻机 Rotary Drillin Machine	BF6M 1013 EC	157kW	2300rpm
		3F6M 1013 ECF	176kW	2300rpm
		BF6M 1013 FC	180kW	2300rpm

钻孔直径1500~1800mm
Drilling Diameter 1500~1800mm



推土机 Bulldozer	推土机 Bulldoze	BF6M 1013 EC	165kW	2300rpm
		BF6M 1013 ECP	186kW	2300rpm
		BF6M 1013 FC	190kW	2300rpm

铲刀容量5.3~6.4立方米
Blade capacity 5.3~6.4m



起重机 Crane	汽车起重机 Mobile Crane	BF6M 1013 EC	174kW	2300rpm
		BF6M 1013 ECP	195kW	2300rpm
		BF6M 1013 FC	200kW	2300rpm

额定起重16~25T
Rated weight 16~25T





匹配参考

References by application

设备	类别	柴油机平台	功率	速度
CONCRETE PUMP	APPLICATION	PLATFORM	POWER	SPEED
混凝土泵 Concrete Pump	拖泵	BF4M 1013 EC	118kW	2300rpm
	Trailer-mounted Concrete pump	BF4M 1013 FC	129kW	2300rpm
	车载泵	BF4M 1013 EC	118kW	2300rpm
	ICK ounfec Concrete pumr	BF4M 1013 FC	129kW	2300rpm

额定斗容40~90立方米/小时
Rated volume 40~90m³/h

额定压力7~13Mpa
Rated pressure 7~13Mpa



设备	类别	柴油机平台	功率	速度
ROAD EQUIPMENT	APPLICATION	PLATFORM	POWER	SPEED
路面机械 Road Equipment	压路机	BF4M 1013 FC	129kW	2300rpm
	Vibration roller			
	平地机	BF4M 1013 FC	129kW	2300rpm
	Motor grade			
	铣刨机	BF4M 1013 EC	107kW	2000rpm
Milling machining	BF4M 1013 FC	120kW	2300rpm	
摊铺机	BF4M 1013 EC	115kW	2300rpm	
Paver	BF4M 1013 FC	126kW	2300rpm	

工作质量8~12T
Working mass 8~12T

铲刀长度3660;3965mm
Blade of grader width 3660;3965mm

铣刨宽度500~800mm
Milling width 500~800mm

摊铺宽度6~8m
Paving width 6~8m



设备	类别	柴油机平台	功率	速度
EXCAVATOR	APPLICATION	PLATFORM	POWER	SPEED
挖掘机 Excavator	挖掘机	BF4M 1013 EC	115kW	2300rpm
	Excavator	BF4M 1013	126kW	2300rpm

工作质量18~19T
Working mass 18~19T

斗容范围0.7~0.8立方米
Rated volume 0.7~0.8m³



匹配参考

References by application

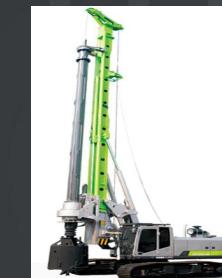
设备	类别	柴油机平台	功率	速度
WHEEL LOADER	APPLICATION	PLATFORM	POWER	SPEED
装载机 Wheel Loader	轮式装载机	BF4M 1013 EC	118kW	2300rpm
	Wheel Loader	BF4M 1013 FC	129kW	2300rpm

额定载重量1.5T、1.8T
Rated duty 1.5T、1.8T



设备	类别	柴油机平台	功率	速度
MINING MACHINE	APPLICATION	PLATFORM	POWER	SPEED
矿机 Mining Machine	旋挖钻机	BF4M 1013 EC	107kW	2300rpm
	Rotary Drilling Machine	BF4M 1013 FC	120kW	2300rpm

钻孔直径1500mm
Drilling Diameter 1500mm



设备	类别	柴油机平台	功率	速度
BULLDOZER	APPLICATION	PLATFORM	POWER	SPEED
推土机 Bulldozer	推土机	BF4M 1013 EC	115kW	2300rpm
	Bulldozer	BF4M 1013 FC	126kW	2300rpm

铲刀容量3.0~4.0立方米
Blade capacity 3.0-4.0m³



设备	类别	柴油机平台	功率	速度
CRANE	APPLICATION	PLATFORM	POWER	SPEED
起重机 Crane	汽车起重机	BF4M 1013 EC	118kW	2100rpm
	Mobile Crane	BF4M 1013 FC	129kW	2000rpm

额定起重10T
Rated weight 10T



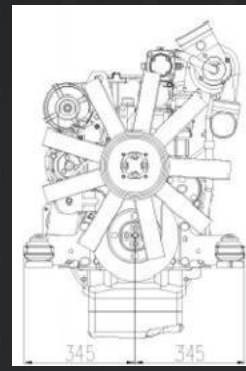
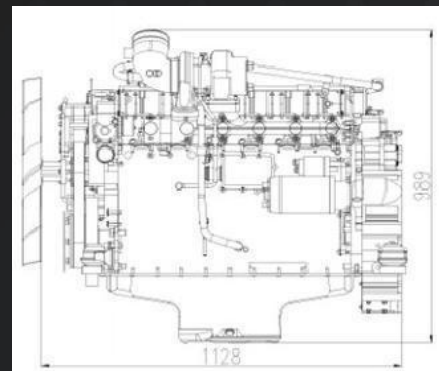
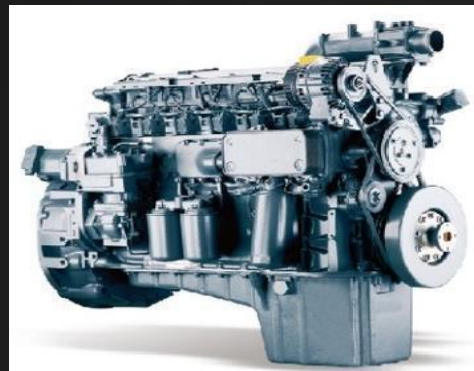


BF6/4M2012-Tier2

系列柴油发动机

产品概述

大连一柴内燃机有限公司生产的道依茨BF6/4M2012系列发动机。凭借创新的研发科技，先进的制造技术以及与客户需求的完美融合，产品满足国II/Tier2 排放法规要求，在可靠性，动力性和经济性上具有显著优势。



产品优势

- ▶采用经过欧洲市场15年验证的单体泵结构，性能稳定，可靠性高；
- ▶针对国内外市场进行适应性开发，满足各类工程机械产品需求；
- ▶应用开发模块化、定制化，为客户提供全面的动力解决方案；
- ▶针对工程机械产品进行专项性能开发，经济性好，使用成本低；
- ▶动力强劲，扭矩储备大，工作效率高；
- ▶精密设计，故障率低，超长使用寿命；
- ▶整体降噪减振设计，无需辅助的降噪减振手段，振动小，噪音低，舒适性高；
- ▶结构紧凑，发动机维护保养点集中，易于操作；

技术参数

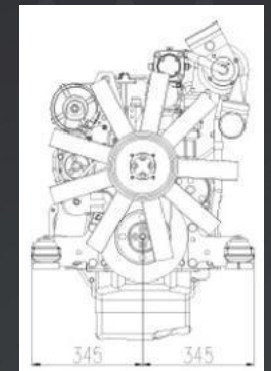
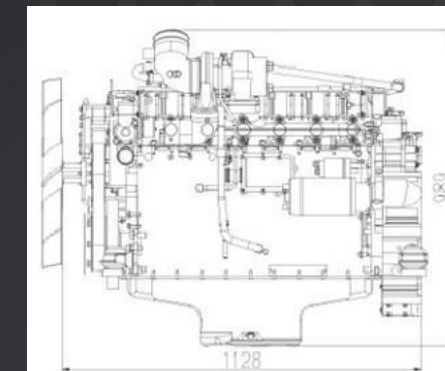
型号	BF6M2012 C	BF4M2012	BF4M2012 C
进气方式	增压中冷		
排量(L)	4		
缸径(mm) x行程(mm)	101x126		
额定功率(kW) / 转速(r/min)	155/2500	75/2500	103/2500
最大扭矩(N·m) / 转速(r/min)	743/1500	390/1500	493/1500
燃油系统	单体泵(可选电控)		
油耗(g/kW-h)	≤204	≤202	
噪声(声压级)dB(A)	≤96	≤94	
排放	国II/Tier2		
整机重量(kg)	560	450	
长(mm) x宽(mm) x高(mm)	1128x690x989	924x692x834	

BF6/4M2012-Tier2

Diesel engine

Product Overview

The Deutz BF6/4M2012 series engine produced by Dalian Yichai Internal Combustion Engine Co., Ltd. (DDC). With innovative R & D technology, Advanced Manufacturing Technology, and perfect integration with customer needs, the product meets the requirements of National II/TIER2 emission regulations and has significant advantages in reliability, power and economy.



Advantages in product

- ▶Unit pump design provides stable performance and high reliability, which has been proven in European markets for more than 15 years.
- ▶Optimized for local and abroad market requirements and satisfy various industrial purpose.
- ▶Customized and modular engines -large number of choices for customer.
- ▶Economical and cost effective, special developed for industrial purpose.
- ▶Reliable and durable design combining high power density and torque reserves.
- ▶Precise design, low failure rate and longer life.
- ▶Lower engine noise level without additional auxiliaries, lower vibration, better adaptability.
- ▶Compact engine design provides easy maintenance access -engine maintenance side provides all relevant service points, easy operation.

Main Technical Parameters

type	BF6M2012 C	BF4M2012	BF4M2012 C
Aspiration	charge air cooling		
Displacement(L)	6	4	
Bore(mm) xStroke(mm)	101x126	101x126	
Power(kW) /Speed(r/min)	155/2500	75/2500	103/2500
Torque(N·m) /Speed(r/min)	743/1500	390/1500	493/1500
Fuel Injection System	Unit pump(electronic control optional)		
Fuel consume rate(g/kW-h)	≤204	≤202	
Noise dB(A)	≤96	≤94	
Emission level	China II/Tier2	China II/Tier2	
Weight(kg)	560	450	
L(mm) xB(mm) xH(mm)	1128x690x989	924x692x834	

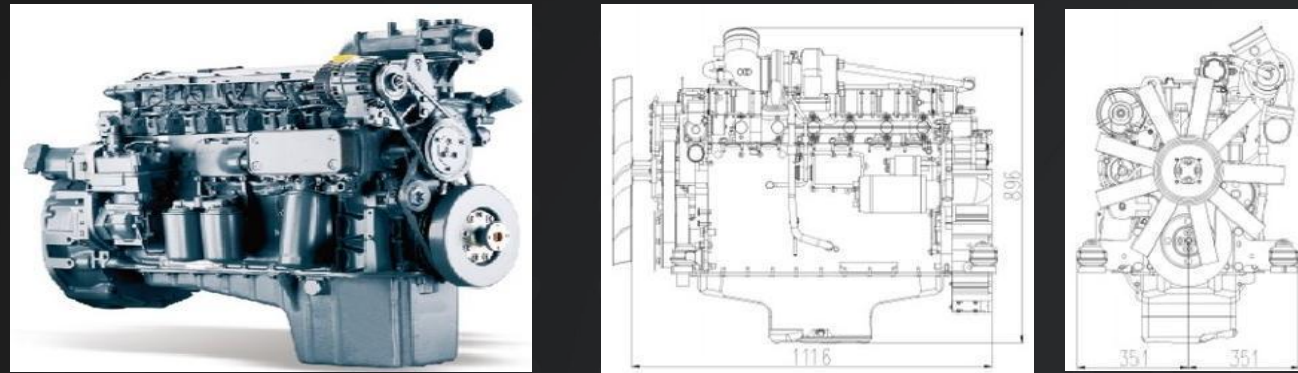


BF6/4M2012-Tier3

系列柴油发动机

产品概述

要实现非道路三阶段排放标准，柴油机必须有更精确的喷油时刻控制，以及EGR 技术来保证；DDC生产的BF-T3系列产品是结合DEUTZ非道路二、三阶段和车用欧四等技术优势，针对工程机械等非道路设备的工作特点，历经三年的试验验证，同时经过两年的国内外市场验证，并获得欧盟排放认证的高性能柴油机。



产品优势

- 通用性：与二阶段产品的零部件通用程度达到95%以上，整车接口完全一致；产品市场使用和维护成本低，盈利效率高；
- ▶可靠性：严格遵照DEUTZ 的产品开发和试验验证流程，保证产品具有德国品质；同时经过国内外各级柴油油品的市场验证，耐久性好、可靠性高；
- ▶适应性：具备丰富的功能策略，确保整车的动力性、稳定性、安全性、经济性；
- ▶内置 EGR(internal EGR) 外型结构简单，适应稳定的中高转速大负荷工况；
- ▶三个动力输出 (PTO) 口，除飞轮之外可输出总功率50kW；
- ▶多种增压器位置、朝向，适应不同的进排气方案；
- ▶SAE1~4#、独立湿式飞轮壳，适应多种变矩器、液压泵连接方式；

技术参数

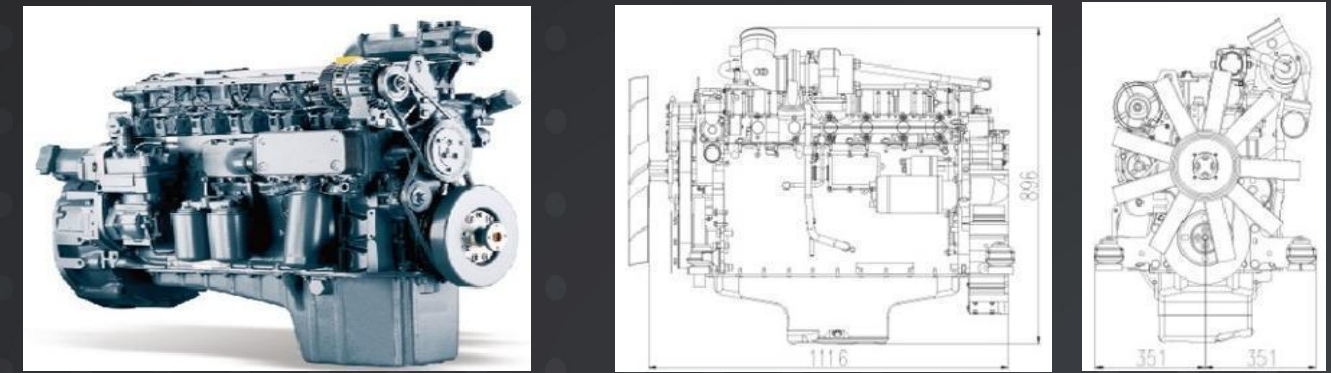
型号	BF6M2012-T3			BF4M2012-T3		
进气方式	增压中冷			增压中冷		
排量(L)	6			4		
缸径(mm)x行程(mm)	101x126					
额定功率(kW)/转速(r/min)	126-155/2200-2400	121-153/2000-2200	117-149/1800-2000	87-103/2200-2400	78-100/2000-2200	78-95/1900-2000
最大扭矩(N·m)/转速(r/min)	688-810/1600	667-758/1300	645-680/1000	449-520/1600	436-505/1300	428-451/1000
燃油系统	电控单体泵、内部废气再循环					
油耗(g/kW-h)	≤208			≤205		
噪声(声压级)dB(A)	≤96			≤94		
排放	国III/Tier3			国III/Tier3		
整机重量(kg)	506			377		
长(mm)x宽(mm)x高(mm)	1116x702x896			813x688x872		

BF6/4M2012-Tier3

Diesel engine

Product Overview

To achieve non-road three-stage emission standards, diesel engines must have more accurate fuel injection timing control, as well as EGR technology to ensure; The BF-T3 series products produced by DDC are based on Deutz non-road stage II, III and Euro IV, aiming at the working characteristics of construction machinery and other non-road equipment, at the same time after two years of domestic and foreign market certification, and the European Union emissions certification of high-performance diesel engines.



Advantages in product

- ▶Commonality:the degree of parts commonality with Tier2 can achieve more than 95%and the vehicle interface is consistent completely.
- ▶Reliability:strictly follow DEUTZ process of development and test verification to guarantee German quality.
- ▶adapatability:
▶Electrical control system possesses abundant function strategies(see details in Electrical Controlling Agreement)to ensure the power, stability, safety and economy of vehicle.
- ▶ Three power delivery outlets and total output power is 50kW except for flywheel.
- ▶Different turborcharger positions and faces to adapt different air inlet&outlet solutions.
- ▶SAE1~4#and independant damp flywheel housing to adapt variant connecting ways of torque converter and hydraulic

Main Technical Parameters

type	BF6M2012-T3			BF4M2012-T3		
Aspiration	charge air cooling					
Displacement(L)	6			4		
Bore(mm)xStroke(mm)	101x126					
Power(kW)/Speed(r/min)	126-155/2200-2400	121-153/2000-2200	117-149/1800-2000	87-103/2200-2400	78-100/2000-2200	78-95/1900-2000
Torque(N·m)/Speed(r/min)	688-810/1600	667-758/1300	645-680/1000	449-520/1600	436-505/1300	428-451/1000
Fuel Injection System	Electronic Unit Pump、Internal Exhaust Gas Recirculation					
Fuel consume rate(g/kW-h)	≤208			≤205		
Noise dB(A)	≤96			≤94		
Emission level	China III/Tier3					
Weight(kg)	506			377		
L(mm)xB(mm)xH(mm)	1116x702x896			813x688x872		

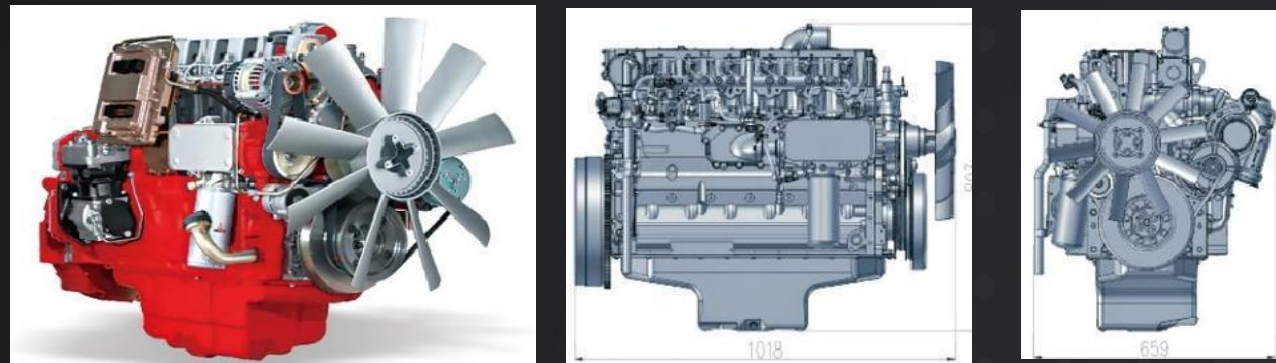


TCD 2012 L6/L4 2V-Tier3

系列柴油发动机

产品概述

大连一柴内燃机有限公司 (DDC) 引进的德国道依茨TCD 系列产品, 以共轨喷油系统及电控系统和智能化的动力输出, 充分表现低油耗、低噪音, 高性能、高效率的优越品质, 满足全球非道路用发动机的需求。



产品优势

- ▶ 在经济性及可靠性方面表现优越, 并有超过8年的非道路用设备全球市场验证;
- ▶ 极端环境下具备最好的冷启动功能;
- 优化机构零部件实现低噪音, 高等级排放, 具备高耐久性和高效盈利的市场表现;
- ▶ 紧凑的设计, 与齿轮传动结合一体的三种PTO 驱动方式, 减少安装成本, 同时提高应用性;
- ▶ 与BF系列零部件通用性较好, 维护、使用成本低, 用户盈利快;
- ▶ 适用于世界范围内的操作, 甚至经硫化的燃油也不影响其可靠性数据;

技术参数

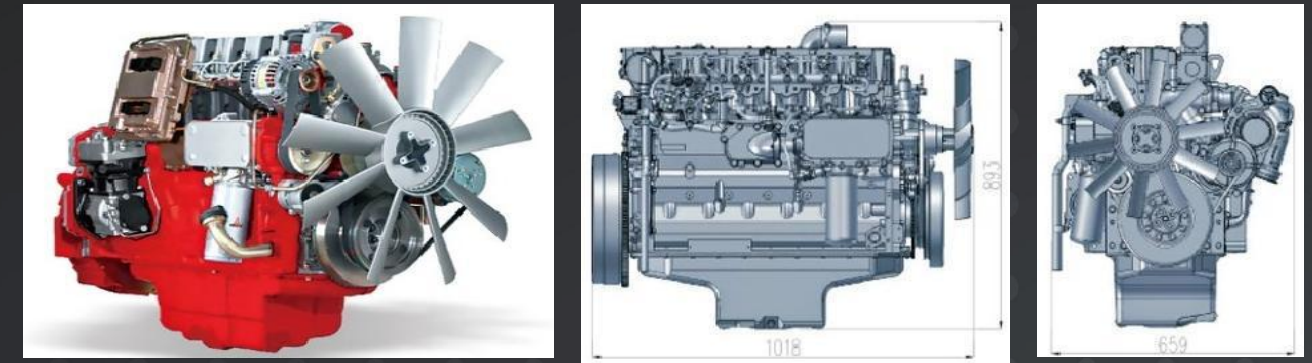
型号	TCD2012 L6 2V		TCD2012 L4 2V	
进气方式	增压中冷			
排量(L)	6	4		
缸径(mm) x行程(mm)	101x126			
额定功率(kW) / 转速(r/min)	100-155/2000-2400	66/2000-2300	88/2000-2400	103/2000-2400
最大扭矩(N·m) / 转速(r/min)	810-850/1600	350/1600	420/1600	520/1600
燃油系统	共轨、内部废气再循环			
油耗(g/kW-h)	≤208	≤204		
噪声(声压级)dB(A)	≤96	≤94		
排放	EU StageIIIA/US EPA Tier3			
整机重量(kg)	510	400		
长(mm) x宽(mm) x高(mm)	018x659x893	766x628x825		

TCD 2012 L6/L4 2V-Tier3

Diesel engine

Product Overview

The TCD engines made by Germany introduced by DDC has prominent advantages of low oil consumption, low noise, high performance and high efficiency with common-rail injection system, electrical control system and intellectual PTO to meet global demand for off-road engine.



Advantages in product

- ▶ The powerful DEUTZ Common-Rail (DCR®) injection system and the electronic engine control (EMR 3) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- ▶ Best cold starting properties even under extreme conditions.
- ▶ Low noise emissions due to acoustically optimized components with very smooth running and high durability.
- ▶ The compact engine design and three PTO drive possibilities integrated into the gear drive reduce the installation costs and increase the number of applications.
- ▶ Wet cylinder liners, long oil change intervals and easy changing of the engine fluids reduce the running and service costs and increase the availability of the machinery.
- ▶ The robust engine design allows worldwide operation even with high sulphur fuels.

Main Technical Parameters

type	TCD2012 L6 2V		TCD2012 L4 2V	
Aspiration	charge air cooling			
Displacement(L)	6	4		
Bore(mm) xStroke(mm)	101×126			
Power(kW) /Speed(r/min)	100-155/2000-2400	66/2000-2300	88/2000-2400	103/2000-2400
Torque(N·m) /Speed(r/min)	810-850/1600	350/1600	420/1600	520/1600
Fuel Injection System	Common Rail、Internal Exhaust Gas Recirculation			
Fuel consume rate(g/kW-h)	≤208	≤204		
Noise dB(A)	≤96	≤94		
Emission level	EU StageIIIA/US EPA Tier3			
Weight(kg)	510	400		
L(mm) xB(mm) xH(mm)	1018x659x893	766x628x825		



匹配参考

References by application

设备 SEGMENT	类别 APPLICATION	柴油机平台 PLATFORM	功率 POWER	速度 SPEED
路面机械 Road Equipment	压路机 Vibration roller	BF6M 2012 C	147kW	2300rpm
	平地机 Motor grader	BF6M 2012 C	147kW	2300rpm
	铣刨机 Milling maching	BF6M 2012 C	132kW	2300rpm
		BF6M 2012 C	120kW	2000rpm
	摊铺机 Paver	BF6M 2012 C BF6M 2012 C	140kW 127kW	2300rpm 2000rpm

工作质量14~22T
Working mass 14~22T

铲刀长度3660;3965mm
Blade of grader width
3660;3965mm

铣刨宽度800~1000mm
Milling width 800~1000mm

摊铺宽度8~9m
Paving width 8~9m



挖掘机 Excavator	挖掘机 Excavator	BF6M 2012 C	140kW	2300rpm
		BF6M 2012 C	127kW	2000rpm

工作质量20~23T
Working mass 20~23T

斗容范围0.8~1.2立方米
Rated vloume 0.8~1.2m³



装载机 WheelLoader	轮式装载机 WheelLoader	BF6M 2012 EC	144kW	2000rpm
		BF6M 2012 FC	155kW	2000rpm

额定载重量3T
Rated duty 3T



匹配参考

References by application

设备 SEGMENT	类别 APPLICATION	柴油机平台 PLATFORM	功率 POWER	速度 SPEED
混凝土泵 Concrete Pump	拖泵 railer-mounted Concrete pump	BF4M 2012 C	98kW	2300TDT
		BF4M 2012 C	89kW	2000rpm
		BF4M 2012	74.9kW	2300rpm
	车载泵 MC unted Concrete pump	BF4M 2012 C	98kW	2300rpm
		BF4M 2012 C BF4M 2012	89kW 74.9kW	2000rpm 2300rpm

额定斗容40~60立方米/小时
Rated volume 40~60m³/h
额定压力8~11Mpa
Rated pressure 8~11Mpa



路面机械 Road Equipment	压路机 Vibration roller	BF4M 2012 C	98kW	2300rpm
	平地机 Motor grader	BF4M 2012 C	98kW	2300rpm
	铣刨机 Milling maching	BF4M 2012 C	88kW	2300rpm
		BF4M 2012 C	80kW	2000rpm
		BF4M 2012	70kW	2300rpm
	摊铺机 Paver	BF4M 2012 C	93kW	2300rpm
		BF4M 2012 C BF4M 2012	84kW 74kW	2000rpm 2300rpm

工作质量8~11T
Working mass 8~11T
铲刀长度3660;3965mm

Blade of grader width 3660;3965mm
铣刨宽度500~600mm
Milling width 500~600mm

摊铺宽度4.5~6m
Paving width 4.5~6m



挖掘机 Excavator	挖掘机 Excavator	BF4M 2012 C	93kW	2300rpm
		2012	84kW	2000rpm
		BF4M 2012	74kW	2300rpm

工作质量13~14T
Working mass 13~14T
斗容范围0.5~0.6立方米
Rated vloume 0.5~0.61





CA498

系列柴油发动机

产品概述

大连一柴内燃机有限公司将CA498全系列发动机进行了性能优化，采用了低涡流比、高性能的进气道，流线型进气阀座，国III产品采用BOSCH公司的电控共轨系统和K系数喷油器，比国内同类机型百公里省油2-3升，借鉴德国道依茨、日本MAE等公司设计理念和验证标准进行零部件及整机开发，采用合金铸铁缸体和整体式缸盖、强度高、刚性好、正常使用条件下大修里程比国内同类产品高10万公里。



产品优势

- 1、采用了低涡流比、高性能的进气道，流线型进气阀座，国III产品采用BOSCH公司的电控共轨系统和K系数喷油器，比国内同类机型百公里省油2-3升；
- 2、最大功率120ps，最大扭矩320N.m，针对整车需求优化低速特性，加速性好，爬坡能力强；
- 3、借鉴德国道依茨、日本MAE等公司设计理念和验证标准进行零部件及整机开发，采用合金铸铁缸体和整体式缸盖、强度高、刚性好、正常使用条件下大修里程比国内同类产品高10万公里；
- 4、合理选择缸体壁厚和加强筋形状，增加缸体刚度；采用全平衡轴，提高动平衡精度；正时齿轮采用斜齿传动，降低齿轮噪音；采用低膨胀、半浮动式活塞、降低活塞敲击声；振动噪音达到国际同类产品水平；
- 5、在保证经济的前提下，排放指标比国内同类产品裕度高10%；

技术参数

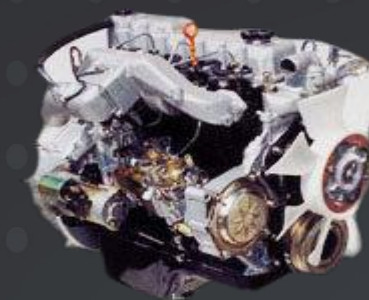
型号	CA498	CA498 E3
进气方式	自然吸气	涡轮增压
排量(L)	3.168	
马力	85	120
缸径(mm)X行程(mm)	98X105	
额定功率(kW)/转速(r/min)	62.5/3600	90/3200
最大扭矩(N·m)/转速(r/min)	196/2100	320/2100
燃油系统	机械直列泵	电控共轨
油耗(g/kW-h)	≤215	
排放	国II	国III
整机重量(kg)	245	
长(mm)X宽(mm)X高(mm)	684×603×722	

CA498

Diesel engine

Product Overview

Dalian Diesel Engine Co., Ltd. (DDC) has optimized the performance of CA498 engine with low swirl ratio and high performance intake port, streamlined intake valve seat, all products using Bosch Company's electronic control common rail system and K-factor injector, 100 km than the domestic similar models of fuel economy 2-3 liters, drawing on the design concepts and verification standards of companies such as MAE in Köln-Deutz and Japan to develop parts and complete machines, using alloy cast iron cylinder block and integral cylinder head, high strength, good rigidity, under normal operating conditions, the overhaul mileage is 100,000 kilometers higher than domestic similar products.



Advantages in product

1. Adopt low swirl ratio, high performance intake port, streamline intake valve seat, all product adopt Bosch electric control common rail system and K coefficient injector, compared with the same model of domestic 100 km fuel saving 2-3 liters,
2. the maximum power 120 PS, the maximum torque 320 n. To optimize the low-speed characteristics, good acceleration and strong climbing ability according to the requirements of the whole vehicle.
3. adopting alloy cast iron cylinder block and integral cylinder head, with high strength and good rigidity, the overhauling mileage is 100,000 km higher than domestic similar products under normal service conditions,
4. increasing cylinder stiffness, adopting full-balance shaft to improve dynamic balance accuracy, adopting helical gear transmission to reduce gear noise, adopting low-expansion, semi-floating piston to reduce piston knocking sound;
5. under the premise of economic guarantee, the emission index is 10% higher than domestic similar products;

Main Technical Parameters

type	CA498	CA498 E3
Aspiration	natural inhalation	turbocharged
Displacement(L)	3.168	
HP	85	120
Bore(mm)xStroke(mm)	98x105	
Power(kW)/Speed(r/min)	62.5/3600	90/3200
Torque(N·m)/Speed(r/min)	196/2100	320/2100
Fuel Injection System	mechanical inline pump	the fuel consumption of electronic controlled
Fuel consume rate(g/kW-h)	≤215	
Emission level	ChinaII	ChinaIII
Weight(kg)	245	
L(mm)xB(mm)xH(mm)	684×603×722	



匹配参考

References by application

设备 SEGMENT	类别 APPLICATION	柴油机平台 PLATFORM	功率 POWER	速度 SPEED
运输车辆 truck		CA498 E3 CA498	90kW 62.5kw	3600TDT 3200TDT
				
船舶 ship		CA498 E3 CA498	90kW 62.5kw	3600TDT 3200TDT
				
叉车 Forklift		CA498 E3 CA498	90kW 62.5kw	3600TDT 3200TDT
				

匹配参考

References by application

设备 SEGMENT	类别 APPLICATION	柴油机平台 PLATFORM	功率 POWER	速度 SPEED
发电机 Generator		BF4M1013 EC	118	2300
		BF4M1013 FC	129	2300
		BF6M1013 EC	174	2300
		BF6M1013 ECP	195	2300
		BF6M1013 FC	206	2300
		TGD 2012 L4 2V	66/88/103	2000-2400
		TGD 2012 L6 2V	100-155	2000-2400



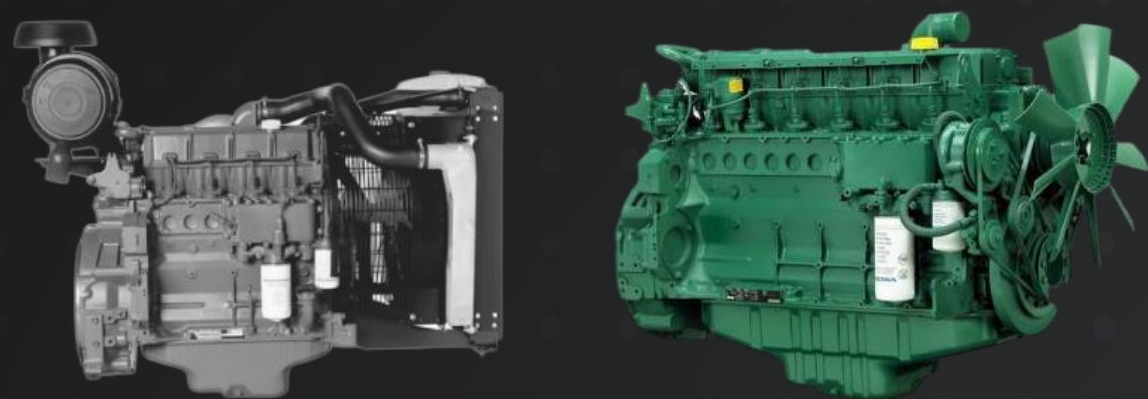


沃尔沃遍达TAD520/720

系列柴油发动机

产品概述

大连一柴内燃机有限公司将遍达520/720等全系列发动机进行了性能优化，该发动机配置活塞冷却技术，使气缸和燃烧室的温度得以控制和维持。先进的高技术燃油喷射和低流阻的进气系统，使得燃烧非常充分而且油耗很低。



产品优势

- 1、遍达系列发动机是一种功率强劲、运行可靠且使用经济的多用途柴油发动机；
- 2、优异的设计使安装简单、快速且非常经济，经过良好的平衡使得运行平稳无振动，而且噪音低。该系列发动机还配置活塞冷却技术，使气缸和燃烧室的温度得以控制和维持；
- 3、先进的高技术燃油喷射和和低流阻的进气系统，使得燃烧非常充分而且油耗很低；
- 4、集成先进的燃油喷射系统，滑油冷却系统及其他的所有服务点安装在一侧，最大限度为安装提供方便；

技术参数

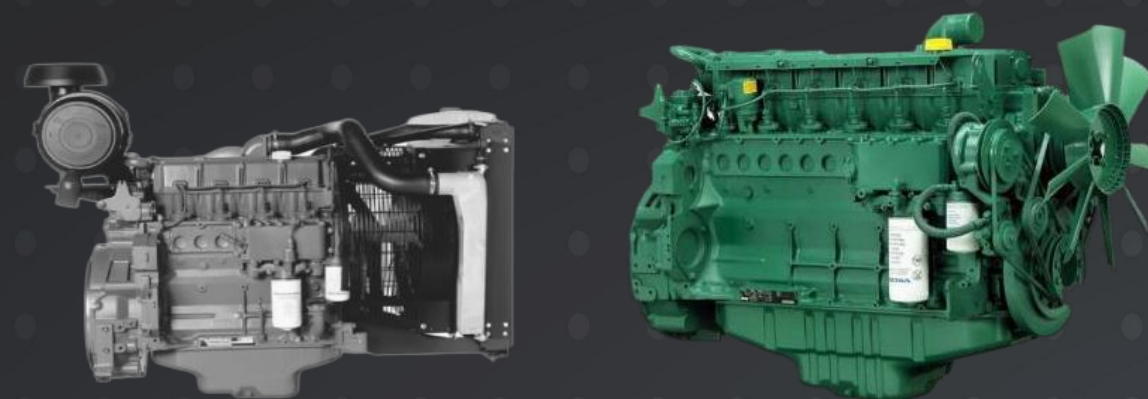
型号	TAD520/530	TAD720/721/722
进气方式	涡轮增压	
排量(L)	4.3	8.3
马力	140	237/265/245-303
缸径(mm) x行程(mm)	108x130	
额定功率(kW)/转速(r/min)	89/1500	179/1500
燃油系统	电控共轨	直喷
油耗(g/kW-h)	≤206	
排放	国II TierII	

VOLVO PENTA TAD 520/720

Diesel engine

Product Overview

Dalian Yichai Diesel Engine Co., Ltd. optimizes the performance of its full range engines, such as Q0520/720, which are equipped with piston cooling technology to control and maintain the temperature of the cylinder and combustion chamber. Advanced high-tech fuel injection and low-flow-resistance intake systems allow for very good combustion and low fuel consumption.



Advantages in product

- 1, the qunda series engine is a powerful, reliable and economical use of the multi-purpose diesel engine;
- 2, excellent design to make the installation of simple, fast and very economic, after a good balance to make smooth operation without vibration, and low noise. The engines are also equipped with piston cooling technology to control and maintain cylinder and combustion chamber temperatures.
3. Advanced high-tech fuel injection and low-flow-resistance intake systems, integrated Advanced Fuel Injection,
4. Lube Oil cooling system and all other service points are installed on one side to maximize ease of installation;products;

Main Technical Parameters

type	TAD520/530	TAD720/721/722
Aspiration	turbocharged	
Displacement(L)	4.3	8.3
HP	140	237/265/245-303
Bore(mm) xStroke(mm)	108x130	
Power(kW)/Speed(r/min)	89/1500	179/1500
Fuel Injection System	the fuel consumption of electronic controlled	mechanical inline pump
Fuel consume rate(g/kW-h)	≤206	
Emission level	ChinaII TierII/III	

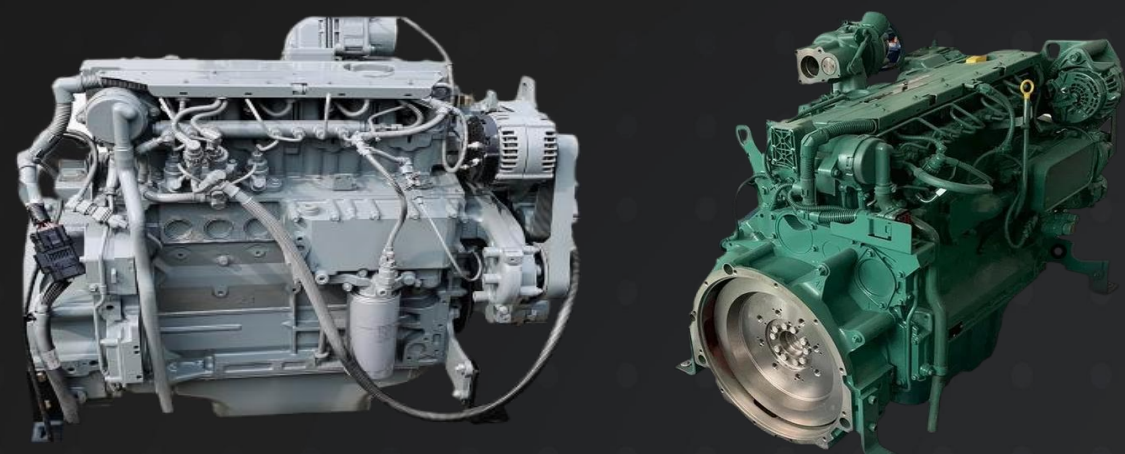


沃尔沃D4D (E) /D5D (E) /D6D (E) /D7D (E) /D8K

系列柴油发动机

产品概述

大连一柴内燃机有限公司将沃尔沃D系列发动机进行了性能优化，该发动机采用性能出众的直列4/6缸水冷柴油发动机，配置电子控制高压燃油喷射器、带废气门的涡轮增压器和中冷器，具有启动性能优良、电压稳定、运行可靠、低排量、低噪音、维护方便等优点，有良好的经济性和良好的适应能力。



产品优势

- 1、直列6缸、水冷、废气涡轮增压、四冲程、进气为水对空气中冷式（TWD型），或进气为空气对空气中冷式（TAD型）。直喷式燃油系统；
- 2、低惯量增压器和直立式柱塞喷油泵，一体式机械调速器或GAC电子调速器，多孔是喷油器所组成的反应迅速的喷油系统，是发动机在很短的时间内有高的承受荷载能力；
- 3、湿式可更换缸套，带阻火台肩，可使气缸头抗高温，铸铁缸体优化力的分布，无多余重量，整机特别的轻。氮——碳处理的曲轴及传动齿轮适合重载运行，曲轴上有7个轴承以降低主轴承的负荷；
- 4、在进气歧管的电加热器可使发动机在冬季低温时启动快捷、可靠，并降低废弃排放；

技术参数

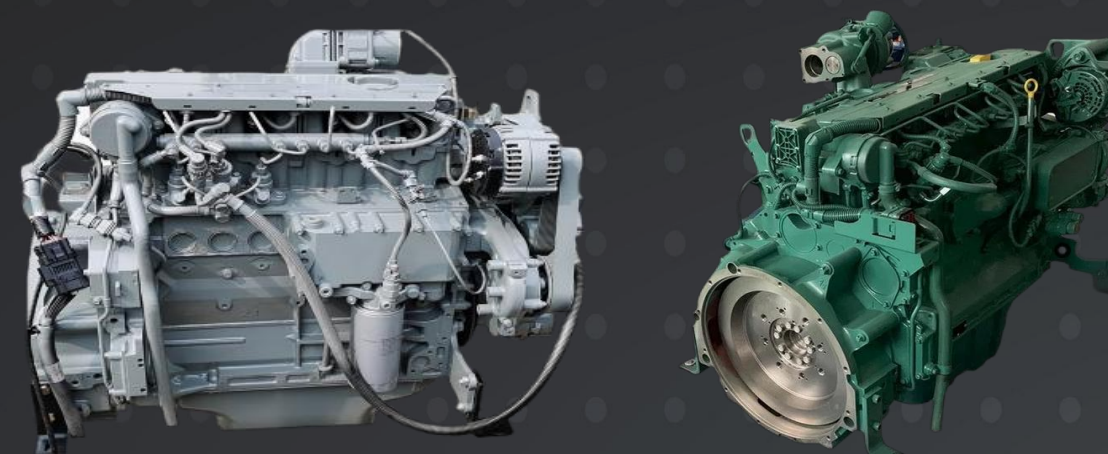
型号	D4D (E)	D5D (E)	D6D (E)	D7D (E)	D8K
进气方式	增压中冷				
排量(L)	4.038	4.7	5.5	7.1	7.8
气缸数量	4	4	6	6	6
缸径(mm) X行程(mm)	101X126	108X130			110X138
额定功率(kW) / 转速(r/min)	91/2200	123/2000	123/1800	138/1800	197/1800
最大扭矩(N·m) / 转速(r/min)	495/1600	670/1600	730/1350	870/1350	1340/1350
燃油系统	机械直列泵/电控共轨				
排放	≤欧II				

VOLVO D4D (E) /D5D (E) /D6D (E) /D7D (E) /D8K

Diesel engine

Product Overview

Dalian Yichai Diesel Engine Co., Ltd. (DDC) has optimized the performance of its Volvo D series engine, which uses an excellent inline 4/6-cylinder water-cooled diesel engine, equipped with electronically controlled high pressure fuel injector, exhaust valve turbocharger and intercooler, it has the advantages of excellent start-up performance, voltage stability, reliable operation, low displacement, low noise and easy maintenance, good economy and adaptability.



Advantages in product

1. In-line 6-cylinder, water-cooled, exhaust-gas turbocharged, four-stroke, air-to-water (TWD type) or air-to-air (TAD type). Direct injection fuel system;
2. Low inertia supercharger and vertical piston injection pump, all-in-one mechanical governor or GAC governor, porous injectors are composed of a rapid response fuel injection system, the engine in a very short time has a high load-bearing capacity;
3. Wet can replace the cylinder liner, with fire-resistant shoulder, can make the cylinder head anti-high temperature, cast iron cylinder optimization force distribution, no excess weight, the whole machine is especially light. The nitrogen-carbon treated crankshaft and transmission gears are suitable for heavy duty operation. The crankshaft has 7 bearings to reduce the load of the main bearing
4. The electric heater in the intake manifold can make the engine start quickly and reliably at low temperature in winter, and reduce the waste emission

Main Technical Parameters

Type	D4D (E)	D5E	D6E	D7E	D8K
Aspiration	Turbocharged				
Displacement(L)	4.038	4.7	5.5	7.1	7.8
No. of Cylinders	4	4	6	6	6
Bore(mm) xStroke(mm)	101X126	108X130			110X138
Power(kW) /Speed(r/min)	91/2200	123/2000	123/1800	138/1800	197/1800
Fuel Injection System	495/1600	670/1600	730/1350	870/1350	1340/1350
Fuel consume rate(g/kW-h)	the fuel consumption of electronic controlled/mechanical inline pump				
Emission level	≤EU II				



匹配参考

References by application

设备 SEGMENT	类别 APPLICATION	柴油机平台 PLATFORM	功率 POWER
柴油发电机组 Generator		TAD 520/530	89kW
		TAD720/730	179kW



匹配参考

References by application

设备 SEGMENT	类别 APPLICATION	柴油机平台 PLATFORM	功率 POWER
	EC170DL	D4E	91kw/2200rpm
履带式挖掘机 Crawler excavator	EC200D	D5E	123kw/2000rpm
	EC210DLR		
	EC220D	D6E	123kw/1800rpm
	EC250D	D7E	138kw/1800rpm
	EC300D		
EC350DL EC360LC	D8K	210kw/1800rpm	



36024 全时空服务

领先世界的“欧洲标准”，值得信赖的“德国品质”，为世界级动力解决方案提供了可靠保障，大连一柴内燃机有限公司（DDC）在追求卓越动力的同时，更注重后期对运营者财富之路的全方位真情护驾。

大连一柴内燃机有限公司（DDC）以“36024”无处不在、无时不在的全时空服务品牌匹配于世界级的动力品质，以国际化、专业化的服务理念为客户提供真正完美的动力解决方案。

服务、备用网络

国内:

800个服务商构建的服务网络，22个备品中心基地库，120家备品代理商，小于55公里的及时到位服务半径。

国外:

1300个道依茨德国公司的服务代理商构建的服务网络，以国际服务标准和质量满足全球客户需求。

服务承诺

救援:

接到用户信息，200公里内6小时到位（边远地区除外）

维修:

用户维修停车时间最长不超48小时（边远地区除外）

配件:

海、陆、空，全天候备品配送

36024 WORLDWIDE FULL-TIME SERVICE

Leading the world's "European standards", trustworthy "German quality" for the world-class power solutions to provide a reliable guarantee, Dalian Diesel Engine Co., Ltd. (DDC) in the pursuit of excellence at the same time, pay more attention to the latter of the operator's wealth road all-round true feelings.

Dalian Yichai Internal Combustion Engine Co., Ltd. (DDC) with "36024" ubiquitous, all-time service brand to match the world-class power quality, with the international, specialized service concept to provide customers with the real perfect power solution.

SERVICES, SPARE PARTS NETWORK

In China:

Service network comprised of 800 service agents, 22 spare part base warehouses, 120 spare part distributors, service radius less than 55 km ensuring in time and in place service.

Abroad:

Meet the worldwide customers' requirements with global service standard and quality through the service network comprised of 1300 service agents of Deutz company in Germany.

SERVICE COMMITMENTS

For help:

For customer plants are less than 200 km away, service personnel will show up within 6 hours upon receiving customer message (except for remote areas).

Maintenance:

Down time for maintenance at customer plant will be less than 48 hours (except for remote areas)

Spare parts:

Spare parts will be delivered by sea, land or air transportation 24 hours a day.

服务热线: +86 400 709 3398
+86 0411-85510599

SERVICE HOTLINE: +86 400 709 3398
+86 0411-85510599