

4E30 新一代非道路专用柴油机

A NEW GENERATION OF THE SPECIAL OFF-ROAD ENGINE

既稳健又创新的长寿型柴油机

IT IS A STEADY AND INNOVATIVE LONG-LIVED DIESEL ENGINE.

无需配备DPF（废气颗粒过滤器）排放也满足欧盟stage IIIB/美国环保署EPA Tier4F
Its emissions meet the eu stage IIIB / EPA Tier4F without DPF (exhaust particulate filter) .

所有的零部件均通过既稳健又创新的方式进行设计和开发。
每个气缸配备两个气门，具有较高的效率、机械强度及功能性。
其结果体现在较长的使用寿命上，这也得益于所有零部件均采用一流供应商。

All components are designed and developed in a steady and innovative mode.
Each cylinder is equipped with 2 valves with high efficiency, mechanical strength and functionality.
The results are reflected in the longer service life, which also benefits from the adoption of first-class suppliers for all parts.



基本特点 BASIC FEATURES

- 1、排量3.0升、功率覆盖37-95.7kW四缸共轨柴油机；
- 2、维护便利性（保养件位于同一侧）；
- 3、模块化设计、发动机外形尺寸非常紧凑；
- 4、适合非道路使用工况，油底壳和机油盘的设计可以保证 ± 35° 都可以吸到机油；
- 5、喷油器垂直布置，设计了更为高效的燃烧系统；
- 6、前端附件系统与欧洲Hutchinson进行了联合设计，皮带采用弹性带，免维护；
- 7、采用液压挺柱机构，气门间隙自动调整，低噪音，免维护；
- 8、B10寿命10000小时。

1. The displacement 3.0 liter, power cover 37-95.7kW four-cylinder common rail diesel engine ;
2. Maintenance convenience (all maintenance pieces are on the same side) ;
3. Modular design, the engine overall dimension is very compact;
4. Suitable for non-road working conditions, the design of oil sump and oil filter are guaranteed to absorb oil with ± 35° .
5. The fuel injector is vertically arranged with a more efficient combustion system.
6. The front-end attachment system is designed with the European Hutchinson, and the belt adopts elastic belt, no maintenance.
7. Adopt hydraulic tappet mechanism, automatic adjustment of valve clearance, low noise and no maintenance;
8. B10 life is 10000 hours.

主要优势 MAIN ADVANTAGES

- 1、非道路专用动力，低转速动力强劲；
- 2、齿轮驱动正时，能应对各种恶劣工况；
- 3、内置通道EGR，结构紧凑，不占空间，整机高度较同类机型低，发动机重心低，利于平稳运行；
- 4、博世非道路专用共轨，工作可靠。

1. Non-road special power, low speed and strong power;
2. When the gear drive is positive, it can deal with all kinds of bad working conditions;
3. Built-in channel EGR, compact structure, the machine height is lower than the similar model, the engine center of gravity is lower for smooth operation;
4. Bosch non-road common rail, reliable work.

TECHNICAL PARAMETERS 技术参数

项目 ITEM	4E30		
	4E30自吸 4E30 NATURALLY ASPIRATED	4E30增压 4E30 TURBOCHARGED	4E30增压中冷 4E30 TURBOCHARGED AND INTER-COOLED
技术路线 technical route	博世共轨+自然吸气 Bosch common rail + natural aspiration	博世共轨+增压 Bosch common rail + turbocharged	博世共轨+增压中冷 Bosch common rail + turbocharged and inter-cooled
额定点 Rated point	36.8kW/2100-2500rpm	55.2kW/2200rpm	95.7kW/2400rpm
扭矩点 Torque point	198Nm/1200-1800rpm	320Nm/1200-1600rpm	430Nm/1200-1800rpm
排放 Emission	国Ⅲ, 国Ⅳ, 欧ⅢA Stage III, Stage IV, E-Mark IIIA	欧ⅢB, 欧Ⅴ E-Mark III B, E-Mark V	国Ⅲ, 国Ⅳ Stage III, Stage IV
气缸数 Number of cylinders	4		
排量 [L] Displacement	3.0		
气门数/缸 Valve number/cylinder	2		
喷射系统 Injection system	博世非道路共轨 Bosch non-road common rail		
最大喷油压力 [bar] Maximum injection pressure.	1600		1800
压缩比 Compression ratio	17.5:1		
后处理 After treatment	/	DOC, DOC+DPF	
最佳燃油消耗率 [g/kW.h] Optimum fuel consumption rate.	220		205
冷却系统 Cooling system	水冷 Transmission Model		
长宽高 [mm] Length × Width × Height	760 × 610 × 790	760 × 580 × 790	760 × 640 × 740

CHARACTERISTIC PERFORMANCE CURVE 性能曲线

