



WEICHAi CONSTRUCTION MACHINERY ENGINES

ООО "Вейчай-Рус Трейдинвест"

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Weichai Group Introduction

Long history, excellent products, leading technology, innovation consciousness, first-class management systems, top service quality, worldwide customers and partners——this is Weichai Group.

"We aim to your maximum satisfaction, our confidence comes from our products' perfect quality, you will enjoy our ideal for perfection when using our products.

Weichai, established in 1946, with more than 50,000 staff, and general assets of 70.2 billion and 98 billion RMB sales 2011, is one of the biggest manufacturers of vehicle and equipment, ranks the 77th in 2012 China top 500 enterprises, the 39th in 2012 China top 500 Manufacturers enterprises, the 7th in 2012 China top 100 Machinery enterprises.

Weichai Group business covers engine, gear box, axle, vehicle, construction machinery, and parts, creating a complete golden industry chain of machinery. Weichai Power co., Ltd, with more than 13,000 staff, with 750,000 units sales volume and 102% growth in 2011, is one of the most famous, professional diesel engine manufacturers and sales of China. Fast Gear company, with sales income 12 billion, with 850,000 units sales volume, is the first gear box manufacture of sales revenue more than 10 billion RMB. Hande Axels company, with 400,000 units sales volume and 165% growth in 2010, is the top one of axles manufacture in China. Commercial vehicle business—Shacman Co., with 100,000 units sales volume and 118% growth in 2010, gets the first growth rate in China. Components business sales revenues reach to 7 billion RMB. Construction machinery business like Shantui Construction Machinery Co., Ltd, bus business like Yaxing Motor Coach Co., Ltd, they all are going toward the good direction. Now, Weichai Power is with a more high-spirited attitude, leading the world, moving the world.



Weichai R&D

First-class R&D Center

Weichai has a national-level R&D center and lab, with a professional R&D team of 1069 researchers, 681 of them are senior and middle-level engineers. More than 150 are technical experts and 136 have Ph.D.

R&D Ability:

- State-qualified Technical Center;
- State-qualified Product Laboratory;
- Postdoctoral workstation;
- State-qualified physical and chemical index measuring enterprise;
- Weichai takes on R&D programs of the National 10th and 11th five-year plans. Weichai launches strategic cooperation relations with world famous R&D organizations, such as AVL, FEV and BOSCH.
- National Commercial Vehicle Powertrain Engineering Research Center.

State-qualified Technical Center



European R&D Center



State-qualified Product Laboratory



Technology Exhibit Hall



The most advanced manufacturing base of diesel engines in the world

Weichai has an Industrial Park covering 220 hectares. Phase I invested 150 Million USD and 200,000 engines are produced per year. Phase II invested 140 Million USD and 150,000-ton castings are produced per year. All facilities are imported from world famous companies such as Heller of Germany, ATLAS and ABB of Switzerland and TOYOTA of Japan.

All facilities on the product line are connected by LAN, which manages production in realtime. The lines include 50 machining centers, 8 robots, 5 fine finishing centers and CMM. All equipment is imported from Heller of Germany and TOYOTA of Japan.



Weichai Power Industrial Park

Certificate

Honour →



System →



Emissions →



Product Catalogue

Weichai Construction Machinery Engines products introduction

As the earliest engine manufacturer in China, Weichai Power is also the current largest diesel engine manufacturer and the main supplier of commercial vehicle manufacturing enterprise in China, whose product market share has been ranking the first in China.

Over half the century, Weichai power has been devoted to exploring the applications and development of diesel engine and providing a full range of engine assemblies for users, so as to pay attention to living environment for human beings in a more active way, push forward low-emission products with continuous technological innovation, lead industry and win users' acceptance.

Weichai Power currently has a full range of powers for light, middle and heavy-duty commercial vehicles and 10 series of products, whose engine displacement ranges from 2L to 13L with a power range from 48 to 550 horsepowers.. The self-research products Euro III, IV and V have got certification from ECE regulation in Europe and GOST in Russia.

Weichai Power, sincerely provides you with all-around power services!



WP3 Series Engines



WP6 Series Engines



WP7 Series Engines



WD10 Series Engines



WP12WP13 Series Engines

Products and Technique Route

Models and Power Range (Ps)		Eu Stage II	Eu Stage III A INDIA BS III	Eu Stage III B	
270	WP12/ WP13	550	Mechanical Pump	Mechanical pump + EGR	Common Rail+EGR+DPF
156	WP10	375	Mechanical Pump	Mechanical pump + EGR	Common Rail+EGR+DPF
160	WP7	270		Mechanical pump + EGR	Common Rail+EGR+DPF
110	WP6	210	Mechanical Pump	Mechanical pump + EGR	
116	WP5	200		Mechanical pump + EGR	Common Rail+EGR+DPF
80	WP4	130	Mechanical Pump	Mechanical pump + EGR	
42	WP3.9R45	102	Mechanical Pump	Mechanical pump + EGR	EGR+DPF

Introduction

Wheel Loader Engines



Weichai Power is a general engine manufacturer with globally advanced level as well as the largest construction machinery power supplier in China. According to the requirements of different manufacturers for carload configuration, performance of products has been further enhanced. The new-style high configuration of stage-II is adopted in this product with a power range of 42ps-343ps, which is an ideal power for matching.

Model List of Loader Engines

Model List of Loader Diesel Engines

Model	Cylinder No./Bore (Stroke)(mm)	Displacement	Air Intake	Rated Power/Speed kW/r/min	Maximum Torque/Speed Nm/r/min	Minimum Fuel Consumption g/kWh	Emission Level	Application
WP2.5G42E2	4X90X100	2.54	Natural aspirate	31/2300	145/≤1400	215	Eu Stage II	08, 10 Loaders
WP3.9G65E2	4X102X118	3.857	Natural aspirate	48/2400	235/≤1600	215	Eu Stage II	14, 16 Loaders
WP4.6G75E2	4X108X125	4.578	Natural aspirate	55.2/2300	280/≤1650	215	Eu Stage II	18 Loaders
WP4.6G82E2	4X108X125	4.578	Natural aspirate	60/2400	295/≤1650	215	Eu Stage II	18 Loaders
WP3.9G88E2	4X102X118	3.857	Turbocharged	60/2400	300/≤1600	215	Eu Stage II	16, 18 Loaders
WP4.1G95E2	4X105X118	4.087	Turbocharged	70/2400	350/≤1600	215	Eu Stage II	18, 20 Loaders
WP4.3G102E2	4X108X118	4.32	Turbocharged	75/2400	380/≤1600	215	Eu Stage II	18, 20 Loaders
WP6G125E22	6X105X130	6.75	Turbocharged	92/2200	500/(1400-1600)	215	Eu Stage II	30 Loaders
WP6G140E22	6X105X130	6.75	Turbocharged	105/2200	560/(1400-1600)	215	Eu Stage II	35 Loaders
WP6G175E22	6X105X130	6.75	Turbocharged	129/2200	680/(1400-1600)	205	Eu Stage II	40 Loaders
WD10G210E24	6X126X130	9.726	Turbocharged	154/1900	900/(1300-1500)	208	Eu Stage II	50 Loaders
WD10G220E23	6X126X130	9.726	Turbocharged	162/2000	900/(1300-1500)	208	Eu Stage II	50 Loaders
WD10G220E21	6X126X130	9.726	Turbocharged	162/2200	860/(1400-1600)	208	Eu Stage II	50 Loaders
WD10G240E21	6X126X130	9.726	Turbocharged	175/2200	950/(1400-1600)	208	Eu Stage II	60 Loaders
WD12G310E221	6X126X155	11.6	Turbocharged and intercooled	226/2100	1350/(1300-1500)	200	Eu Stage II	70 Loaders
WD12G360E221	6X126X155	11.6	Turbocharged and intercooled	261/2100	1700/(1300-1500)	200	Eu Stage II	80 Loaders
WD12G400E221	6X126X155	11.6	Turbocharged and intercooled	298/2100	1800/(1300-1500)	200	Eu Stage II	90 Loaders
WP6G125E3	6X105X130	6.75	Turbocharged and intercooled	92/2200	515/(1400-1600)	210	Eu Stage IIIA	30 Loaders
WP6G125E3	6X105X130	6.75	Turbocharged and intercooled	92/2000	540/(1300-1500)	210	Eu Stage IIIA	30 Loaders
WP6G125E3	6X105X130	6.75	Turbocharged and intercooled	92/2300	500/(1400-1600)	210	Eu Stage IIIA	30 Loaders
WP6G140E3	6X105X130	6.75	Turbocharged and intercooled	105/2200	560/(1400-1600)	210	Eu Stage IIIA	35 Loaders
WP6G160E3	6X105X130	6.75	Turbocharged and intercooled	110/2000	640/(1300-1500)	210	Eu Stage IIIA	40 Loaders
WP6G175E3	6X105X130	6.75	Turbocharged and intercooled	129/2200	680/(1400-1600)	210	Eu Stage IIIA	40 Loaders
WP7G210E3	6X108X136	7.5	Turbocharged and intercooled	154/2200	950/(1400-1600)	210	Eu Stage IIIA	50 Loaders
WP7G210E3	6X108X136	7.5	Turbocharged and intercooled	154/2000	980/(1300-1500)	210	Eu Stage IIIA	50 Loaders
WP10G220E3	6X126X130	9.726	Turbocharged and intercooled	162/2200	860/(1400-1600)	208	Eu Stage IIIA	50 Loaders
WP10G220E3	6X126X130	9.726	Turbocharged and intercooled	162/2100	920/(1200-1400)	208	Eu Stage IIIA	50 Loaders
WP10G220E3	6X126X130	9.726	Turbocharged and intercooled	162/2000	980/(1300-1500)	208	Eu Stage IIIA	50 Loaders
WP10G210E3	6X126X130	9.726	Turbocharged and intercooled	154/1900	980/(1300-1500)	208	Eu Stage IIIA	50 Loaders
WP10G240E3	6X126X130	9.726	Turbocharged and intercooled	178/2200	1000/(1400-1600)	208	Eu Stage IIIA	60 Loaders
WP10G240E3	6X126X130	9.726	Turbocharged and intercooled	178/2000	1100/(1300-1500)	208	Eu Stage IIIA	60 Loaders
WP10G240E3	6X126X130	9.726	Turbocharged and intercooled	178/2100	1100/(1300-1500)	208	Eu Stage IIIA	60 Loaders
WP10G270E3	6X126X130	9.726	Turbocharged and intercooled	199/2200	1100/(1400-1600)	208	Eu Stage IIIA	>60 Loaders

Model List of Loader Diesel Engines

Model	Cylinder No.×Bore×Stroke(mm)	Displacement	Air Intake	Rated Power/Speed kW/r/min	Maximum Torque/Speed Nm/r/min	Minimum Fuel Consumption g/kWh	Emission Level	Application
WP12G310E3	6X126X155	11.6	Turbocharged and intercooled	226/2100	1350/(1300-1500)	200	Eu Stage IIIA	70 Loaders
WP12G36QE3	6X126X155	11.6	Turbocharged and intercooled	261/2100	1700/(1300-1500)	200	Eu Stage IIIA	80 Loaders
WP12G400E3	6X126X155	11.6	Turbocharged and intercooled	298/2100	1800/(1300-1500)	200	Eu Stage IIIA	90 Loaders

Model List of Loader LNG Engines

Model	Cylinder No.×Bore×Stroke(mm)	Displacement	Air Intake	Rated Power/Speed kW/r/min	Maximum Torque/Speed Nm/r/min	Minimum Fuel Consumption g/kWh	Emission Level	Application
WP10G22QE30	6X126X130	9.726	Turbocharged and intercooled	162/2200	900/(1200-1400)	195	Eu Stage IIIA	50LNG Loader
WP10G26QE30	6X126X130	9.726	Turbocharged and intercooled	191/2200	950/(1400-1600)	190	Eu Stage IIIA	60LNG Loader
WP12G33QE31	6X126X155	11.6	Turbocharged and intercooled	243/2200	1350/(1300-1600)	185	Eu Stage IIIA	80LNG Loader

WD10G Diesel Engine for Loader

93 dust filter advantages

1. Extend of the main filter maintenance cycle, reducing user operating costs.
2. The filter effect is more than 93% at low flow speed.
3. Simple structure, easy to install and maintain.

All-around Fuel Filtration System

The all-around fuel filtration system is equipped to remove water and impurities in the fuel thoroughly and to reduce the failure rate of the fuel system in a large scale.

1. Fuel filter/water separator—to remove water in the fuel
2. Primary fuel filter—to remove impurities in the fuel
3. Secondary fuel filter—to guarantee the fuel quality

Soft Starter

To gear in counterpoint at a low speed and start at a high speed, the integration of the starting relay and the starter overcomes the starter quality issues caused by the poor quality or absence of relays. Breakage of flywheel ring gears and failure of gear millings are reduced; the carbon deposit in the combustor and the failure rate of starters are reduced.



Optimization of Oil-water Pipes

The oil inlet of the turbocharger with flexible connection reduces oil leakage. The water drain valve with new leak-proof structure reduces water leakage and dripping. The new oil-return structure of gas-oil separator eliminates oil leakage.



Ribbed belt Structure of Power Trains

The balanced stress on the pulley of parts like water pumps, generators, etc. reduces failures like the breakage, falling of belts, etc.

PW Injection Pump and Front Air Compressor

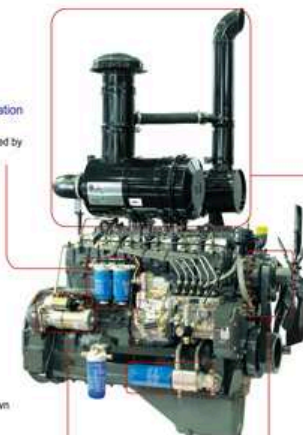
Leakage in the oil seal of the transmission shaft of an oil pump is eliminated and breakage of couplers avoided. The vibration of injection pumps is reduced and breakage of the high-pressure oil pipes eliminated with a larger stiffness. The molding design of the oil inlet and outlet of air compressors ensures the reliable performance on the seal of air compressors.

2000r/min Low Speed Engine

Mechanical loss is reduced to enhance the mechanical efficiency. Rotary inertia of the entire power train is reduced. Mechanical wear is reduced and service life increased. The high-flow water pump is adopted to decrease the rotating speed of the water pump and increase the service life.

WP6 Diesel Engine for Loader

Twin-stage fuel super-filtration + primary filtration
The filter efficiency of fuel is enhanced up to 99%. Corrosion on injection pumps and fuel injectors caused by impurities in fuel and the failure rate are reduced.



Composite Air Filter + Exhaust Gas Injection

The composite air filter plus the exhaust gas injection enhances air filtration efficiency up to 99.5%. Abrasion of diesel engines at the early stage is reduced.

Electrical Equipment of World Famous Known Brands
Electrical Equipment Suppliers of International Known Brands with Lower Failure Rate

High-flow Water Pump with Bearings (on the back of the machine)

Maintenance-free without the need for adding butter daily; the high-flow water pump decreases the rotating speed of fan.

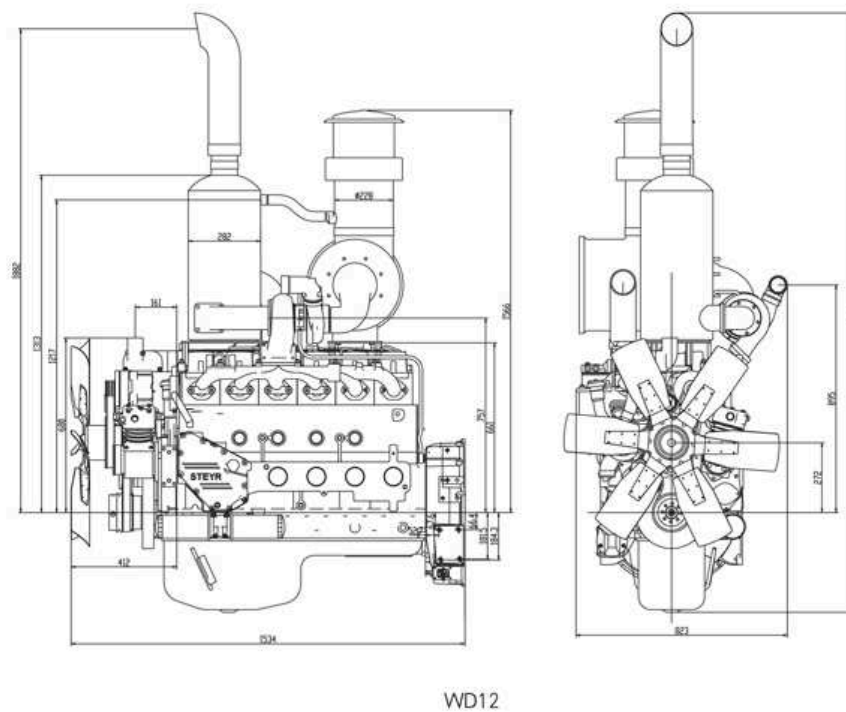
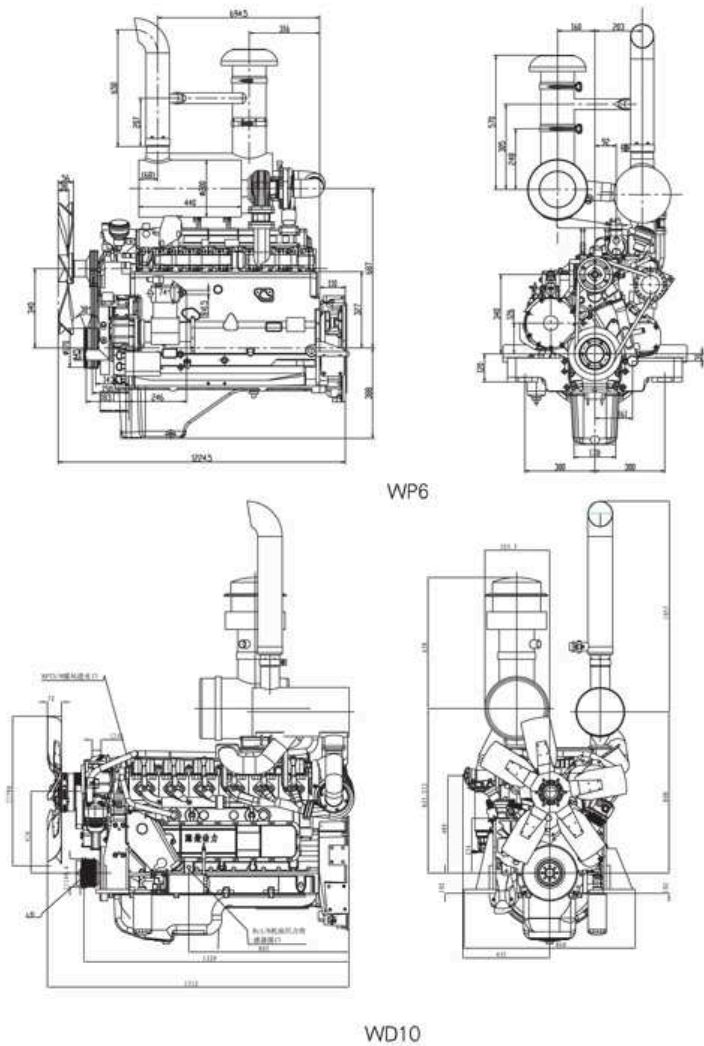
Air Inlet and Turbocharging T-Technology

The increase of the displacement of WP6 diesel engine from 6.23L to 6.75L enhances the power and also guarantees the reliability. With the advanced Turbocharging T-technology (Turbocharge), high power and digging power, large torque at low speed and favorable acceleration performance.

Structure of Gas-oil Separator

The air outlet and oil return were in the same pipe in the previous gas-oil separators. The newly-designed structure of gas-oil separators alters such structure with independent pipes, making air outlet and oil return smoother and reducing blocking in gas-oil separators and oil leakage in oil return pipes.

Outline Drawing



Bulldozer Engines



With a focus on the peculiar work features of bulldozer, the engine performance has been optimized to create the lowest fuel consumption possible under normal vehicle operating conditions.

Model List of Bulldozer Engines

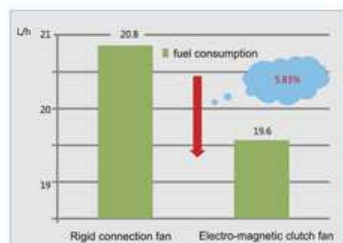


Model	Cylinder No.×Bore ×Stroke (mm)	Displacement	Air Intake	Rated Power/Speed kW/r/min	Maximum Torque/Speed Nm/r/min	Minimum Fuel Consumption g/kWh	Emission Level	Application
WP4G95E221	4×105×130	4.5	Turbocharged	70/2200	415/(1400-1600)	< 210	Eu Stage II	80Ps Bulldozers
WP6G115E235	6×105×130	6.75	Turbocharged	86/2350	460/(1400-1600)	< 208	Eu Stage II	100Ps Bulldozers
WP7G143E200	6×108×130	7.14	Turbocharged	105/1900	680/(1200-1300)	< 203	Eu Stage II	130Ps Bulldozers
WD10G158E26	6×126×130	9.726	Turbocharged	115/1800	760/(1100-1200)	< 205	Eu Stage II	140Ps Bulldozers
WD10G178E25	6×126×130	9.726	Turbocharged	131/1850	830/(1000-1200)	< 205	Eu Stage II	160/165Ps Bulldozers
WD10G200E25	6×126×130	9.726	Turbocharged	148/1850	920/(1100-1200)	< 205	Eu Stage II	180Ps Bulldozers
WD12G220E23	6×126×155	11.596	Turbocharged	162/1950	1030/(1200-1400)	< 205	Eu Stage II	220Ps Bulldozers
WD12G240E26	6×126×155	11.596	Turbocharged	175/1800	1100/(1200-1300)	< 203	Eu Stage II	230Ps Bulldozers
WD12G245E23	6×126×155	11.596	Turbocharged	180/2000	1100/(1300-1400)	< 203	Eu Stage II	230Ps Bulldozers
WD12G250E22	6×126×155	11.596	Turbocharged	185/2100	1060/(1300-1400)	< 203	Eu Stage II	230Ps Bulldozers
WD12G350E231	6×126×155	11.596	Turbocharged and intercooled	258/2000	1510/(1300-1500)	< 198	Eu Stage II	320Ps Bulldozers
WP4G95E3	4×105×130	4.5	Turbocharged	70/2200	415/(1400-1600)	< 210	Eu Stage IIIA	80Ps Bulldozers
WP6G115E3	6×105×130	6.75	Turbocharged	86/2350	460/(1400-1600)	< 208	Eu Stage IIIA	110Ps Bulldozers
WP7G143E3	6×108×136	7.5	Turbocharged	105/1900	680/(1200-1300)	< 203	Eu Stage IIIA	130Ps Bulldozers
WP10G158E3	6×126×130	9.726	Turbocharged	115/1800	750/(1100-1200)	< 205	Eu Stage IIIA	140Ps Bulldozers
WP10G178E3	6×126×130	9.726	Turbocharged	131/1850	830/(1000-1200)	< 205	Eu Stage IIIA	160Ps Bulldozers
WP10G200E3	6×126×130	9.726	Turbocharged	148/1850	920/(1100-1200)	< 205	Eu Stage IIIA	180Ps Bulldozers
WP12G200E3	6×126×155	11.596	Turbocharged and intercooled	148/1850	950/(1100-1200)	< 203	Eu Stage IIIA	180Ps Bulldozers
WP12G220E3	6×126×155	11.596	Turbocharged and intercooled	162/1950	1050/(1200-1400)	< 203	Eu Stage IIIA	200Ps Bulldozers
WP12G240E3	6×126×155	11.596	Turbocharged and intercooled	175/1800	1250/(1200-1300)	< 203	Eu Stage IIIA	220Ps Bulldozers
WP12G245E3	6×126×155	11.596	Turbocharged and intercooled	180/2000	1200/(1300-1400)	< 203	Eu Stage IIIA	230Ps Bulldozers
WP12G250E3	6×126×155	11.596	Turbocharged and intercooled	185/2100	1200/(1300-1400)	< 203	Eu Stage IIIA	230Ps Bulldozers
WP12G350E3	6×126×155	11.596	Turbocharged and intercooled	258/2000	1600/(1300-1500)	< 203	Eu Stage IIIA	320Ps Bulldozers

Engine Features

Electro-magnetic clutch fan

According to water temperature to achieve three shifts speed. Reduce the useless fan power loss and save fuel.



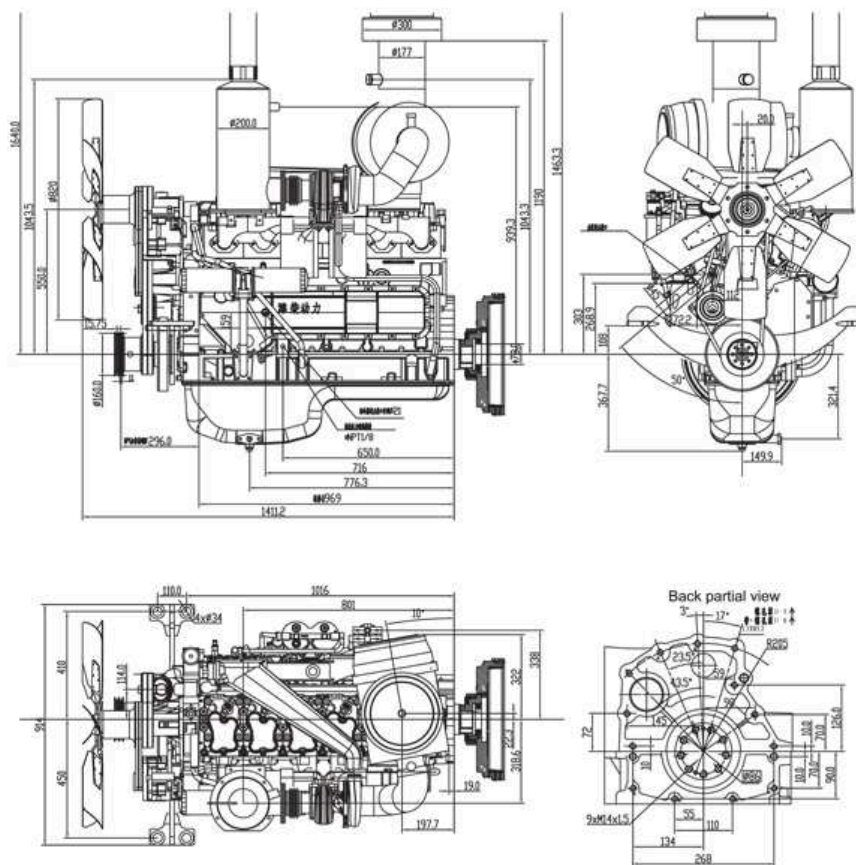
93 dust filter



93 dust filter advantages:

1. Extend of the main filter maintenance cycle, reducing user operating costs.
2. The filter effect is more than 93% at low flow speed.
3. Simple structure, easy to install and maintain.

Outline Drawing



WD10

Road Roller&Grader Engines



Relying on the mature products of Euro-III/IV Platform and aiming at the market of road rollers and land levellers, Weichai Power has developed the power products facing the stage II and stage III in alliance with AVL, which includes Engines like WP5, WP6 and WP7. Weichai Power has achieved the multilevel requirements of the host for the power from the present stage to the future ten years by adopting technologies like turbocharging /turbocharging and inter-cooling, mechanical pump/electronic control common rail/SCR, etc. This product combination, having gone through a five-year development and multi-cycle of rig tests and actual installed endurance tests, is the core power made by Weichai Power dedicatedly aiming at the target market.

Model List of Road Roller Engines

Model	Cylinder number	Displacement (L)	Intake method	Emission level	Rated output/speed (KW/r/min)	Max torque/speed (N.m)/(r/min)	Suitable altitude (m)	Main application
WP4G110E20	4	4.5	Turbocharged	Eu Stage II	82/2200	430/(1400-1600)	4000	10T
WP6G125E201	6	6.75	Turbocharged	Eu Stage II	92/2000	540/(1300-1500)	4000	14T
WP6G160E201	6	6.75	Turbocharged	Eu Stage II	118/2000	600/(1300-1500)	4000	16T/18T
WP6G175E201	6	6.75	Turbocharged	Eu Stage II	129/2000	680/(1300-1500)	4000	20T/22T
WP6G190E20	6	6.75	Turbocharged and intercooled	Eu Stage II	140/2000	800/(1300-1500)	4000	26T
WP6G125E22	6	6.75	Turbocharged	Eu Stage II	92/2200	515/(1400-1600)	4000	12T
WP6G140E22	6	6.75	Turbocharged	Eu Stage II	105/2200	560/(1400-1600)	4000	14T
WP6G175E22	6	6.75	Turbocharged	Eu Stage II	129/2200	680/(1400-1500)	4000	18T/20T/22T
WP6G190E22	6	6.75	Turbocharged and intercooled	Eu Stage II	140/2200	760/(1400-1600)	4000	22T
WP6G210E23	6	6.75	Turbocharged and intercooled	Eu Stage II	155/2300	800/(1400-1600)	4000	26T
WP4G100E3	4	4.5	Turbocharged and intercooled	Eu Stage IIIA	74.5/2200	330/(1400-1600)	4000	8T
WP4G110E3	4	4.5	Turbocharged and intercooled	Eu Stage IIIA	82/2200	430/(1400-1600)	4000	10T
WP6G125E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	92/2000	540/(1300-1500)	4000	14T
WP6G125E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	92/2200	510/(1400-1600)	4000	12T/14T
WP6G140E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	105/2200	560/(1400-1600)	4000	14T
WP6G160E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	118/2000	600/(1400-1600)	4000	18T
WP6G175E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	129/2000	680/(1400-1600)	4000	20T
WP6G175E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	129/2200	680/(1400-1600)	4000	20T
WP6G190E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	140/2000	800/(1200-1400)	4000	22T
WP6G190E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	140/2200	760/(1400-1600)	4000	22T
WP6G190E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	140/1900	850/(1100-1300)	4000	22T
WP6G210E3	6	6.75	Turbocharged and intercooled	Eu Stage IIIA	155/2300	800/(1400-1600)	4000	26T

Model List of Grader Engines

Model	Cylinder number	Displacement (L)	Intake method	Emission level	Rated output/speed (KW/r/min)	Max torque/speed (N.m)/(r/min)	Suitable altitude (m)	Main application
WP7G210E22	6	7.14	Turbocharged and intercooled	Eu Stage II	154/2200	900/(1400-1600)	4000	PY180 land levellers
WP7G220E22	6	7.14	Turbocharged and intercooled	Eu Stage II	162/2200	900/(1300-1500)	4000	PY200 land levellers
WP7G240E22	6	7.14	Turbocharged and intercooled	Eu Stage II	175/2200	980/(1300-1500)	4000	PY220 land levellers
WP7G200E3	6	7.5	Turbocharged and intercooled	Eu Stage IIIA	154/2200	900/(1400-1600)	4000	PY180 land levellers
WP7G220E3	6	7.5	Turbocharged and intercooled	Eu Stage IIIA	162/2200	900/(1300-1500)	4000	PY200 land levellers
WP7G240E3	6	7.5	Turbocharged and intercooled	Eu Stage IIIA	175/2200	980/(1300-1500)	4000	PY220 land levellers

Product Features

High reliability

Air Inlet System

- Three-stage filtration of the air inlet system, effective protection for the cylinder liner
Blade pre-filtration of the first level
Rotational flow inject of the second level
Paper super-filtration of the third level
- The primary filtration efficiency of the assembly exceeds 99.5% with the maintenance period of the filter element lengthened by twice.



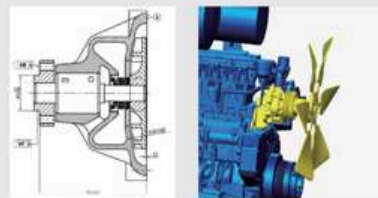
Fuel System

- Promotion on the reliability of the fuel system, three-stage fuel filtration of all series
Coarse fuel filtration/water separating of the first level (with a filtration precision above 100um and the efficiency of water separation above 93%)
Paper super-filtration of the second level (with a filtration precision of 40-100um)
Paper super-filtration of the third level (with a filtration precision of 20-50um)



Cooling System

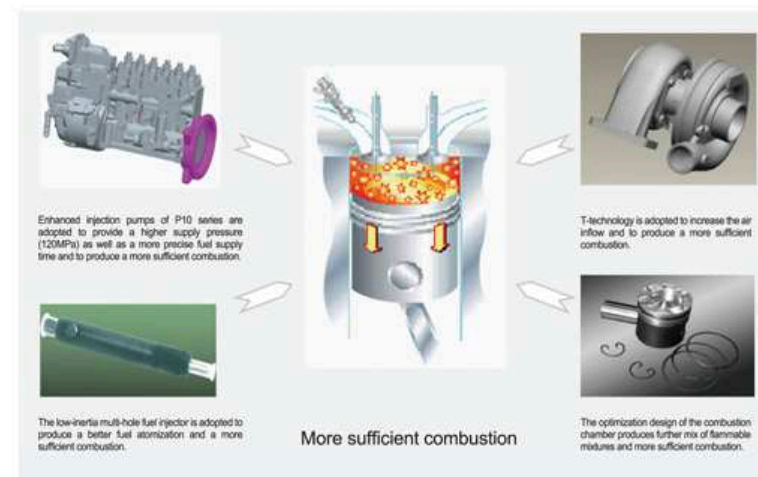
- With the high-flow water pump, the maintenance-free structure design of the bearing makes it effective and durable.
- The unitary water pipe reduces leakage fault points.



Favorable Economical Efficiency

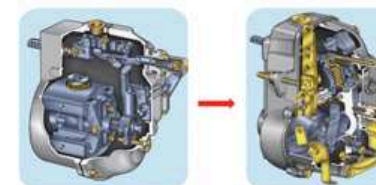
The performance optimization saves more fuel

The configuration of the air inlet system and the fuel system of the engine is optimized to explore the engine proficiency and reduce the fuel consumption.



Powerful Dynamic Property

Aiming at the operating features of road rollers, the speed controller for exclusive use, with high sensitivity and short response time to the load, is developed. In the working condition of engines, the maximum decrease of rotating speed with load shall be 30rpm in order to enhance working efficiency.



Great Comfortableness

The improvement on engine design and decrease of the noise and vibration of engines are beneficial to the noise reducing design of the carload, thus noise around the driver can be reduced.

Excavator Engines



Weichai Power, aiming at the current development situation of excavator market, puts forward all series of power for the exclusive use of excavators through deeply making research on working condition of excavator and five-year concentrated research and development. Strong power, energy saving, low fuel consumption, meeting the efficient work requirements.

Model List of Excavator Engines



Engine Series	Rated Power (kW/Ps)	Rated Speed (r/min)	Max. Torque/Speed (N.m/r/min)	Displacement (L)	Air Intake	Emission	Application
WP7G158E31	116/158	2000	630/1500	7.14	Turbocharged and intercooled	Eu Stage IIIA	20-21T Excavator
WP7G173E31	127/173	2000	760/1500	7.14	Turbocharged and intercooled	Eu Stage IIIA	23-25T Excavator
WP7G193E31	142/193	2000	980/1500	7.14	Turbocharged and intercooled	Eu Stage IIIA	27-29T Excavator
WP7G270E31	199/270	2000	1160/1500	7.14	Turbocharged and intercooled	Eu Stage IIIA	30-36T Excavator
WP12	221/300	1900	1440/1000-1400	11.596	Turbocharged and intercooled	Eu Stage IIIA	38T Excavator
WP12	247/336	1900	1600/1000-1400	11.596	Turbocharged and intercooled	Eu Stage IIIA	42T Excavator
WP12	276/375	1900	1800/1000-1400	11.596	Turbocharged and intercooled	Eu Stage IIIA	44T Excavator
WP12	294/400	1900	1920/1000-1400	11.596	Turbocharged and intercooled	Eu Stage IIIA	46T Excavator
WP12	316/430	1900	2060/1000-1400	11.596	Turbocharged and intercooled	Eu Stage IIIA	50T Excavator
WP12	338/460	1900	2110/1000-1400	11.596	Turbocharged and intercooled	Eu Stage IIIA	55T Excavator

Product Features

three level fuel filter

Weichai overtakes two years, successfully developed one-body "three level fuel filter" that adapt to international market, which passed lab performance test , cold region test and oil adapt ability test.



three level fuel filter

external connection electrical oil filter

Electrical pump oil : when customer changes filter element ,it can prevent the friction in different kinematic pair of the engine due to lack of oil in oil pipe., so the engine's life can be prolonged.



electrical oil filter

WP three level dust air-filter

- (1)cyclone rough filter centrifugal force ,efficiently remove the dust in the air.
- (2)eddyding tube centrifugal force , isolated small dust
- (3)fine filter element in the air filter , can guarantee the quantity of the intake air



fuel saving constant temperature fan

- Equipped with constant temperature fan, 7~12% fuel can be saved .



Electronic constant temperature fan

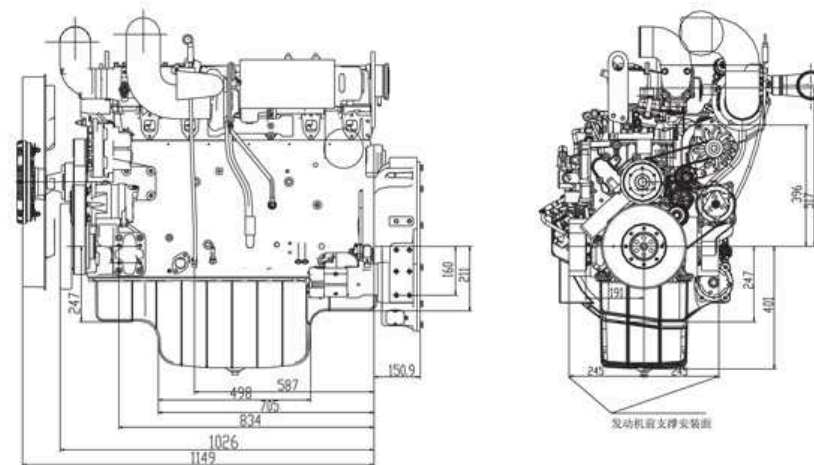


second grade balance mechanism

WP5 engine is 4 cylinder in-line engine. In order to decrease the vibration produced by the two level reciprocating inertia force and increase stability of the engine, WP5 engine adopts second grade balance mechanism that have steady performance, mature technology , and whose technical index reaches the Austrian AVL design requirements.



Outline Drawing



WP7

Crane Engines



According to crane driving characteristics and working conditions, Weichai has developed full series Landking engines specialized for lifting equipment by making full use of Weichai's R&D support platform at home and abroad to constantly optimize products and improve performance.

MOVE THE WORLD EMPOWER THE FUTURE

Model List of Crane Engines

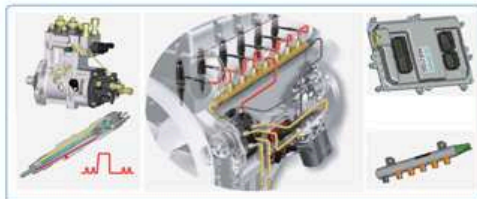


Engine Model	Rated Power kW/PS	Rated Speed r/min	Max. Torque/Speed Nm/r/min	Displacement L	Emission	Application T
WP5.160	117/160	2300	600/1200~1700	4.76	Euro III, IV	8T Truck Crane
WP5.180	132/180	2300	650/1200~1700	4.76	Euro III, IV	10T Truck Crane
WP5.200	147/200	2300	735/1200~1700	4.76	Euro III, IV	12T Truck Crane
WP7.210	155/210	2300	800/1200~1700	7.14	Euro III, IV	12T Truck Crane
WP7.240	176/240	2300	900/1200~1700	7.14	Euro III, IV	16~20T Truck Crane
WP7.270	199/270	2300	1100/1200~1700	7.14	Euro III, IV	25T Truck Crane
WP7.300	220/300	2300	1160/1200~1700	7.14	Euro III, IV	36T Truck Crane
WP7.320	235/320	2300	1250/1200~1700	7.14	Euro III, IV	50T Truck Crane
WP10.336N	247/336	1900	1500/1200~1500	9.726	Euro III, IV	50T Truck Crane
WP10.336	247/336	2200	1250/1200~1600	9.726	Euro III, IV	50T Truck Crane
WP10.375	276/375	2200	1460/1200~1600	9.726	Euro III, IV	70~80T Truck Crane
WP12.375	276/375	1900	1800/1000~1400	11.596	Euro III, IV	70~80T Truck Crane
WP12.400	294/400	1900	1920/1000~1400	11.596	Euro III, IV	90T Truck Crane
WP12.430	316/430	1900	2060/1000~1400	11.596	Euro III, IV	110T Truck Crane
WP12.460	338/460	1900	2110/1000~1400	11.596	Euro III, IV	130T Truck Crane
WP13.530	390/530	2100	2200/1200~1500	12.54	Euro III, IV	150~180T Truck Crane
WP13.550	404/550	2100	2300/1200~1500	12.54	Euro III, IV	180~220T Truck Crane

MOVE THE WORLD EMPOWER THE FUTURE

Product Features

- The full series engines has been equipped with electrical control high pressure CR system, which can precisely control the whole injection process at different load and speed.



Common rail system technology

After three years' cooperated development with TELEMATICS, the world leading technology organization, Weichai Power European R&D center has brought out "common rail system" at the end of 2008 by utilizing control function of electrical control high pressure common rail system and combining Chinese market requirement. It has obtained wide acceptance from the market.

Seven major functions of common rail system:



- Phased management
- Vehicle speed management
- Security control
- Abnormalities reminding
- Fuel consumption management
- GPS management
- Remote diagnosis

- Due to standard fuel protect filter, fuel grade can be reduced, thus saving the cost.
Due to standard multi-power fuel-saving switch, and fuel-saving thermostat fan, 7-12% fuel can be reduced. Multi-power fuel-saving switch can adjust engine output power and keep less fuel consumption at different load and lifting.

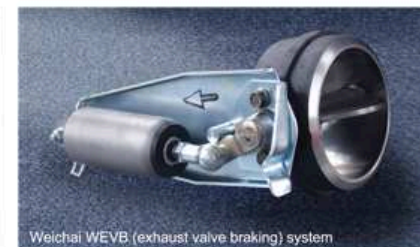


- Electromagnetic thermostat fan
It can automatically carry out three-speed adjustment according to different water temperature, effectively reduce the fan useless power consumption



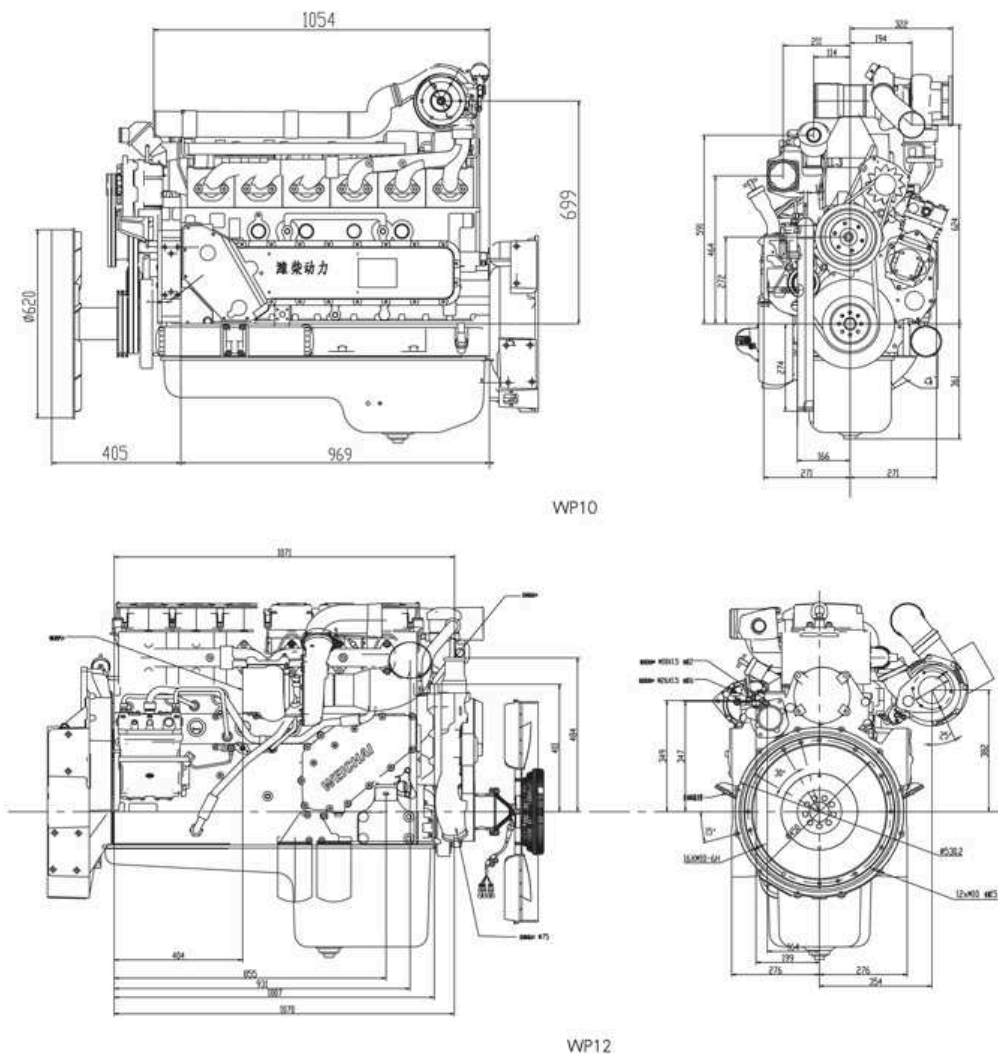
- WEVB System
(applicable for WP10 and WP12 Series Engine)

In Weichai WEVB system (Weichai Exhaust Valve Brake), The combination of exhaust pipe brake valve and exhaust valve brake device makes it possible to realize an improvement of 50% on brake efficiency of complete vehicles which ensures driving safety of vehicles on downhill paths of mountainous areas. In addition, the reduced usage frequency of braking system realizes a lower operating cost of complete vehicle while higher economy. What's more, WEVB auxiliary braking system possesses numbers of advantages as well, for instance: simple structure, reliable performance, easy operation, low cost, few changing parts and convenient maintenance.



Weichai WEVB (exhaust valve braking) system

Outline Drawing



Tractor Engines



According to the working condition features of tractor, Weichai has developed full series engines specialized for tractor. Its advantages of strong power, low fuel consumption can meet the requirement of efficient working.

Model List for Tractor Engines



Model	Cylinder No.×Bore ×Stroke(mm)	Displacement L	Air Intake	Rated Power/Speed kW/r/min	Maximum Torque/Speed Nm/r/min	Emission Level	Application
WP4T75E201	4×105×130	4.5	Turbocharged and Intercooled	60/2300	335/1400-1600	EU stage II	75Ps
WP4T85E20	4×105×130	4.5	Turbocharged and Intercooled	67/2300	370/1400-1600	EU stage II	85Ps
WP4T95E20	4×105×130	4.5	Turbocharged and Intercooled	73.5/2300	410/1400-1600	EU stage II	95Ps
WP4T105E20	4×105×130	4.5	Turbocharged and Intercooled	85/2300	470/1400-1600	EU stage II	105Ps
WP4T115E20	4×105×130	4.5	Turbocharged and Intercooled	94/2300	520/1400-1600	EU stage II	115Ps
WP4T120E20	4×105×130	4.5	Turbocharged and Intercooled	100.5/2300	540/1400-1600	EU stage II	120Ps
WP6T110E22	6×105×130	6.75	Turbocharged and Intercooled	97.5/2200	565/1400-1600	EU stage II	110Ps
WP6T120E22	6×105×130	6.75	Turbocharged and Intercooled	105/2200	610/1400-1600	EU stage II	120Ps
WP6T130E22	6×105×130	6.75	Turbocharged and Intercooled	111/2200	640/1400-1600	EU stage II	130Ps
WP6T140E22	6×105×130	6.75	Turbocharged and Intercooled	118/2200	685/1400-1600	EU stage II	140Ps
WP6T150E201	6×105×130	6.75	Turbocharged and Intercooled	118/2200	685/1400-1600	EU stage II	150Ps
WP6T160E200	6×105×130	6.75	Turbocharged and Intercooled	132.5/2200	765/1400-1600	EU stage II	160Ps
WP6T175E22	6×105×130	6.75	Turbocharged and Intercooled	147/2200	830/1400-1600	EU stage II	170Ps
WP6T200E200	6×105×130	6.75	Turbocharged and Intercooled	154/2200	830/1400-1600	EU stage II	200Ps
WP7.210	6×108×130	7.5	Turbocharged and Intercooled	176/2300	975/1400-1600	EU stage II	210Ps
WP7.240	6×108×130	7.5	Turbocharged and Intercooled	199/2300	1160/1400-1600	EU stage II	240Ps
WP10T260E20	6×126×130	9.726	Turbocharged and Intercooled	213/2200	1230/1400-1600	EU stage II	260Ps
WP10T280E20	6×126×130	9.726	Turbocharged and Intercooled	247/2200	1430/1400-1600	EU stage II	280Ps
WP10T310E20	6×126×130	9.726	Turbocharged and Intercooled	247/2200	1430/1400-1600	EU stage II	310Ps
WP12T340E20	6×126×155	11.596	Turbocharged and Intercooled	250/2100	1670/1400-1600	EU stage II	340Ps
WP12T380E20	6×126×155	11.596	Turbocharged and Intercooled	265/2100	1910/1400-1600	EU stage II	380Ps
WP12T400E20	6×126×155	11.596	Turbocharged and Intercooled	294/2100	1910/1400-1600	EU stage II	400Ps
WP12T430E20	6×126×155	11.596	Turbocharged and Intercooled	316/2100	2090/1400-1600	EU stage II	430Ps
WP12T450E20	6×126×155	11.596	Turbocharged and Intercooled	331/2100	2090/1400-1600	EU stage II	450Ps

Model	Cylinder No.×Bore ×Stroke(mm)	Displacement L	Air Intake	Rated Power/Speed kW/r/min	Maximum Torque/Speed Nm/r/min	Emission Level	Application
WP4T120E30	4×105×130	4.5	Turbocharged and Intercooled	100.5/2300	540/1400-1600	EU stage IIIA	120Ps
WP6T200E300	6×105×130	6.75	Turbocharged and Intercooled	210/2200	830/1400-1600	EU stage IIIA	200Ps
WP7.240	6×108×130	7.5	Turbocharged and Intercooled	199/2300	1160/1400-1600	EU stage IIIA	240Ps
WP10T310E30	6×126×130	9.726	Turbocharged and Intercooled	247/2200	1430/1400-1600	EU stage IIIA	310Ps
WP12T450E30	6×126×155	11.596	Turbocharged and Intercooled	353/2100	2090/1400-1600	EU stage IIIA	450Ps

Product Features

Characteristics of Tractor Engines

● Comfort

The adoption of gantry structural design on engine body strengthens anti-distortion ability. The second grade balance mechanism applied on 4-cylinder engine reduces vibration and lowers noise, thus improving driving safety and comfort.



● Economy

It's equipped with PID injection pump. After the optimization of intake and exhaust system, fuel system, 10% of consumed fuel is reduced, compared with similar diesel engine. The minimum fuel consumption point located at the ordinary working area of tractor.

● Power

Specially designed for agricultural machinery, it has such advantages as strong power, big torque at low speed, reserved torque being more than 30% and so on.

● Reliability

The design, material quality and production of all parts meet strict German standards, giving the engine a service life of some 10,000 hours.

A cyclone-type filter, fuel filter-water separator and a 2-stage fine filter combine to solve the early wear problem on pistons, piston rings, liners and bearings. Water and other impurities are filtered, reducing the fuel system failure rate by up to 90%.

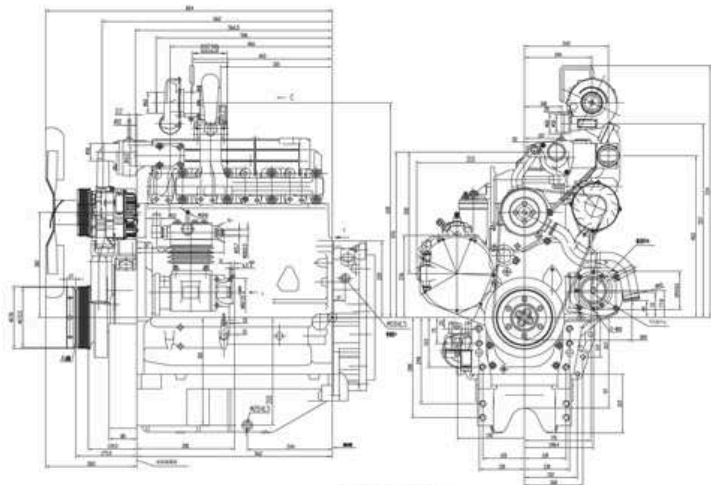


3-stage dust air filter

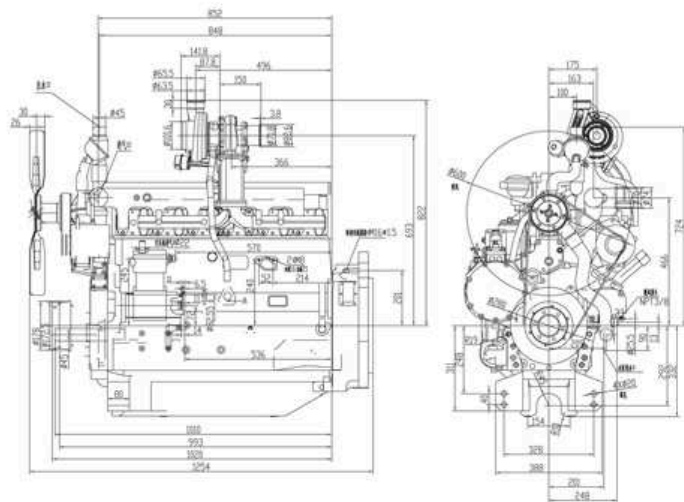


3-stage fuel filter

Outline Drawing



WP4 Series



WP6 Series

Other special purpose vehicle engines



Well maintenance vehicle



snow-sweeper



combine harvester



forklift



Paver



Trailer concrete pump



Rotary digging drill



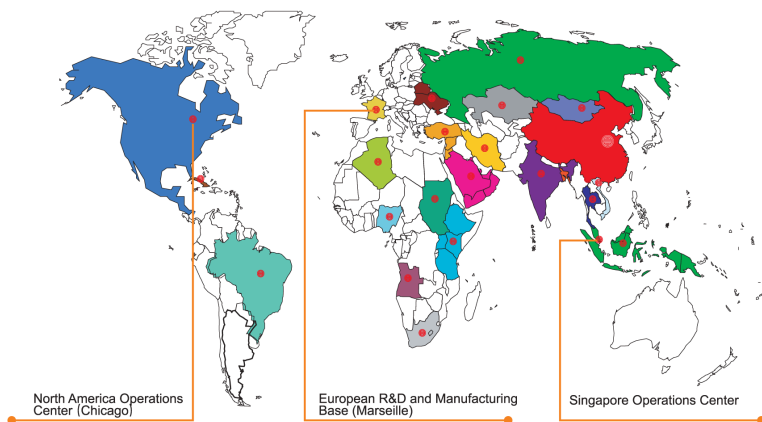
Dynamic compactor



Cold regeneration

Weichai International Marketing Service Network

Weichai Power has a broad market in 97 countries and regions in five continents. Recently, it has had an international service network covering the global operations with 28 overseas institutions and 150 service agencies, which proves that Weichai Power has the initial ability to provide services to worldwide uses.



Service concept of Weichai Power:

Wherever you are, you are always within Weichai service



Weichai International Service Network

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