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WEICHAI



WEICHAI
Marine Engines

Global Leader Full Series Whole Field Engine Supplier





MARINE ENGINES

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THE BEST DIESEL
ENGINE BY WEICHAI

Weichai Introduction

Weichai has four business platforms covering vehicle, powertrain, luxury yacht and auto parts. Its subsidiaries are spread across Europe, North America, Southeast Asia and other regions. Global Research and Development Operation centers are established in Chicago, Marseilles, Forli, Frankfurt and Singapore. At present, Weichai has offices in more than 30 countries and over 400 authorized service stations. Weichai products are sold in 100 countries and regions around the world. The inventory of overseas engines reaches 250,000 and that of heavy-duty trucks exceeds 100,000. Weichai is committed to extending its industry supply



chain and improving its competitiveness through strategic investments. Weichai acquired French Baudouin in 2009, further expanding engine business. In 2012, Weichai Group acquired 75 percent of Italy's Ferretti, the world's largest luxury yacht manufacturing enterprise. Later in 2012, Weichai Group subsidiary, Weichai Power, signed a strategic cooperation agreement with KION Group, one of the world's top industrial forklift truck manufacturers and global leader of the hydraulic technology. Weichai aims to provide maximum satisfaction through its full range of engine and power offerings.

R&D CAPABILITY



GLOBAL CERTIFICATIONS
FOR DEPENDABILITY
AND QUALITY

Recognized at home and
around the world



China Classification Society Bureau Veritas Russian Maritime Register of Shipping

MARINE ENGINE INTRODUCTION

Bore diameter from 85 to 320mm, displacement from 2.1 to 580L, power range from 27 to 12,240 HP. Weichai marine engines are known for toughness and reliability, good fuel- efficiency and service. That's why so many customers and partners worldwide choose Weichai marine engines.

Weichai offers three product lines for marine applications.

The Weichai brand product line has propulsion engines from 27 to 2,666 HP.

The Baudouin brand product line, produced in France, has propulsion engines from 450 to 1,200 HP.

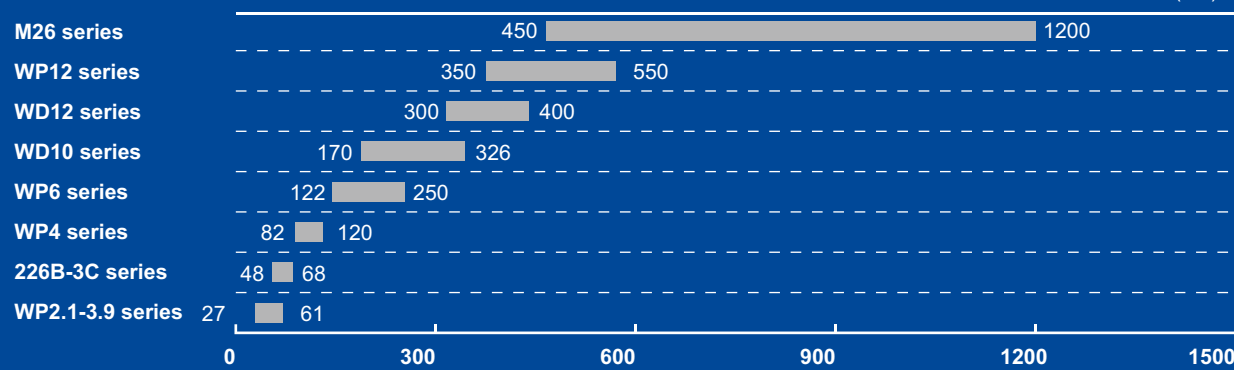
The Weichai-MAN product line, licensed by MAN Diesel

& Turbo, has propulsion engines from 1,754 to 12,240 HP.

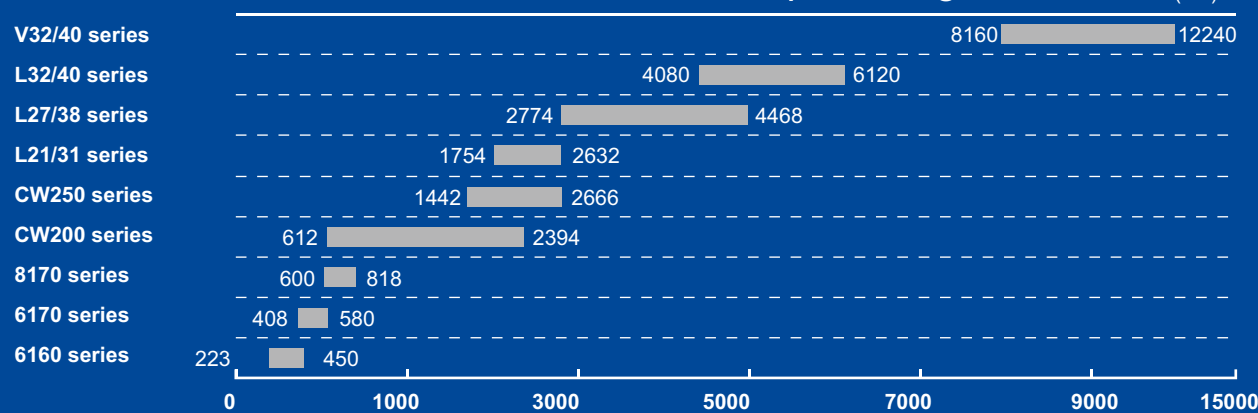
Weichai operates five marine engine facilities in China and one in France. The six facilities are ISO 9001: 2000 Quality Management System certified. All Weichai engines over 130kW meet the IMO Tier II NOx emission (Annex VI of MARPOL 73/78). Most of products have got the type approval certificates awarded by world's ten classification societies such as LR, GL, DNV, BV, ABS, CCS, NK, RS, RINA and KR.

POWER RANGE

Marine High-speed Engines



Marine Medium-speed Engines



WEICHAI MARINE ENGINE TECHNOLOGY

The WP4/6, WD10/12, WP12 Series Marine Diesel Engines feature six key technologies to improve performance.

Marine Dedicated Sump Technology---

Flat sump
The flat sump was specifically designed to better fit marine applications and reduces the chance for leaks.

The flat sump has an efficient stamped and formed design that has optimized rid locations and no welding line on the surface.

Water Jacket Exhaust Pipe Cooling Technology

An exhaust pipe freshwater cooling jacket protects against high cabin heat by reducing surface radiation.

Poly V-belt Transmission Technology

Twisted, flapping or thrown drive belts are effectively eliminated.

Low Noise, Flange Pump Technology

The high-pressure pump is mounted via a flange

connection thus improving fuel pump connection stiffness. Improved stiffness reduces vibration, connection problems and associated noise.

Non-stop Filter Replacement Technology

Oil filters can be conveniently maintained during normal engine operation eliminating unnecessary engine shutdowns.

Voyage Safeguard Monitor

The Voyage Safeguard Monitor operates in extended environment conditions. The voltage range is 16 VDC to 36 VDC. Temperature range is -25 °C to +70 °C (-13F +158F). It is shock, dust and water proof to IP55 deck machinery level and uses BOSCH sensor technology for accuracy.





Model	WP2.1	WP3.9	226B-3C	WP4	WP6	WD10	WD12	WP12	WP13
Type	In line,direct injection, 4 strokes, water cooled			In line,direct injection, 4 strokes, water cooled		In line,direct injection, 4 strokes, water cooled		In line,direct injection, 4 strokes, water cooled	
Cylinder numbers	4	4	3	4	6	6	6	6	6
Bore(mm)	85	102		105		126		126	127
Stroke(mm)	92	118	120	130		130	155	155	165
Displacement(L)	2.1	3.9	3.1	4.5	6.8	9.7	11.6	11.6	12.5
Fuel consumption(g/kW.h)	≤215	≤235	≤200	≤200		≤198		≤194	≤195
Oil consumption(g/kW.h)	≤0.8		≤0.8	≤0.8		≤0.8		≤0.8	≤0.8
Crankshaft rotating direction (face to flywheel)	Anticlockwise		Anticlockwise			Anticlockwise		Anticlockwise	
Net weight(kg)	220	450	400	600	750	1056	1100	1200	1200
Overhaul life(h)	>6000			12000		12000	12000	12000	12000





															
Model	6160	6170	8170	CW6200 /8200		CW12V200 /16V200		CW6250/ CW8250		L21/31	L27/38	L32/40	V32/40		
Type	In line,direct injection,4 strokes, water cooled			Direct injection, 4 strokes, water cooled , turbocharged and intercooled						Direct injection,4 strokes,water cooled					
Cylinder numbers	6/6/8			6/8		12/16		6/8		6/7/8/9		6/7/8/9		12/14/16/18	
Bore(mm)	160	170	170	200		200		250		210		270		320	
Stroke(mm)	225	200	200	270		270		300		310		380		400	
Displacement(L)	27.1/27.2/36.3			50.9	67.9	101.8	135.7	88.4	117.8	64.2/74.9/85.6/96.3		130.8/152.6/174.4/196.2		193.0/225.2/257.4/289.5	
Fuel consumption(g/kW.h)	≤200	≤197	≤197	≤200		≤200		≤200		≤198		≤183		≤179	
Oil consumption(g/kW.h)	≤1.0	≤1.0	≤1.0	≤1.0		≤1.0		≤1.3		≤0.8		≤0.8		≤0.8	
Crankshaft rotating direction (face to flywheel)	Anticlockwise			Clockwise		Clockwise		Clockwise		Clockwise		Clockwise and anticlockwise			
Net weight(kg)	3400	3100	4200	6500	7800	11800	13680	12000	15300	16000/17500/19000/20500		31000/34000/37000/40500		38000/42000/47000/51000	
	61000/68000/77000/85000														



226B、WP4/6 Series Model List

Engine Model	HP	kW	RPM	Aspiration	Power Output Interface
D226B-3C1	48	35	1800	NA	SAE3/11.5
TD226B-3C	54	40	1500	T	SAE3/11.5
TD226B-3C1	68	50	1800	T	SAE3/11.5
WP4C82-15	82	60	1500	T	SAE1/14
WP4C95-18	95	70	1800	T	SAE1/14
WP4C102-21	102	75	2100	T	SAE1/14
WP4C120-18	120	88	1800	TA	SAE1/14
WP6C122-15	122	90	1500	T	SAE1/14
WP6C142-18	142	105	1800	T	SAE1/14
WP6C156-21	156	115	2100	T	SAE1/14
WP6C150-15	150	110	1500	TA	SAE1/14
WP6C165-18	165	122	1800	TA	SAE1/14
WP6C185-21	185	136	2100	TA	SAE1/14
WP6C140-23	140	103	2300	T	SAE1/14
WP6C163-23	163	120	2300	T	SAE1/14
WP6C198-23	198	145	2300	TA	SAE1/14
WP6C220-23	220	162	2300	TA	SAE1/14
WP6C250-25	228	168	2425	TA	SAE1/14

160、170 Series Model List

Engine Model	HP	kW	RPM	Aspiration	Power Output Interface
R6160ZC223-1	223	164	1000	T	No/local
R6160ZC250-1	250	184	1000	T	No/local
R6160ZC275-1	275	202	1000	TA	No/local
R6160ZC300-1	300	220	1000	TA	No/local
R6160ZC350-1	350	255	1000	TA	No/local
R6160ZC380-1	380	280	1000	TA	No/local
R6160ZC408-1	408	300	1000	TA	No/local
R6160ZC450-1	450	330	1000	TA	No/local
R6160ZC490-2	490	360	1200	TA	No/local
X6170ZC408-1	408	300	1000	TA	SAE0/16
X6170ZC450-1	450	330	1000	TA	SAE0/16
X6170ZC450-2	450	330	1200	TA	SAE0/16
X6170ZC480-2	480	353	1200	TA	SAE0/16
X6170ZC500-2	500	368	1200	TA	SAE0/16
X6170ZC520-2	520	382	1200	TA	SAE0/16
X6170ZC540-2	540	397	1200	TA	SAE0/16
X6170ZC580-3	580	426	1350	TA	SAE0/16
8170ZC600-1	600	441	1000	TA	SAE0/16
8170ZC720-2	720	530	1200	TA	SAE0/16
8170ZC818-3	818	601	1350	TA	SAE0/16

M26 Series Model List

Engine Model	HP	kW	RPM	Aspiration	Power Output Interface
6M26.2	450	331	1800	TA	SAE1/14
6M26.2	500	368	1800	TA	SAE1/14
6M26.2	550	404	1900	TA	SAE1/14
6M26.2	600	442	1950	TA	SAE1/14
8M26.2	600	442	1800	TA	SAE0/14
8M26.2	668	491	1800	TA	SAE0/14
8M26.2	733	539	1900	TA	SAE0/14
12M26.2	900	662	1800	TA	SAE0/18
12M26.2	1000	736	1800	TA	SAE0/18
12M26.2	1100	808	1900	TA	SAE0/18
12M26.2	1200	883	1950	TA	SAE0/18

WD10/12、WP12/13 Series Model List

Engine Model	HP	kW	RPM	Aspiration	Power Output Interface
WD10C170-15	170	125	1500	T	SAE1/14
WD10C190-15	190	140	1500	TA	SAE1/14
WD10C218-15	218	160	1500	TA	SAE1/14
WD10C240-15	240	176	1500	TA	SAE1/14
WD10C258-15	258	190	1500	TA	SAE1/14
WD10C278-15	278	205	1500	TA	SAE1/14
WD10C190-18	190	140	1800	T	SAE1/14
WD10C200-18	200	147	1800	T	SAE1/14
WD10C240-18	240	176	1800	TA	SAE1/14
WD10C278-18	278	205	1800	TA	SAE1/14
WD10C312-18	312	230	1800	TA	SAE1/14
WD10C200-21	200	147	2100	T	SAE1/14
WD10C278-21	278	205	2100	TA	SAE1/14
WD10C300-21	300	220	2100	TA	SAE1/14
WD10C326-21	326	240	2100	TA	SAE1/14
WD12C300-15	300	220	1500	TA	SAE1/14
WD12C327-15	327	240	1500	TA	SAE1/14
WD12C300-18	300	220	1800	TA	SAE1/14
WD12C327-18	327	240	1800	TA	SAE1/14
WD12C350-18	350	258	1800	TA	SAE1/14
WD12C375-21	375	275	2150	TA	SAE1/14
WD12C400-21	400	294	2150	TA	SAE1/14
WP12C350-15	350	258	1500	TA	SAE1/14
WP12C400-18	400	295	1800	TA	SAE1/14
WP12C450-21	450	330	2100	TA	SAE1/14
WP12C500-21	500	368	2100	TA	SAE1/14
WP12C550-21	550	405	2100	TA	SAE1/14
WP13C450-18	450	330	1800	TA	SAE1/14



L21/31、L27/38、L32/40、V32/40 Series Model List

Engine Model	HP	kW	RPM	Aspiration	Fuel
6L21/31	1754	1290	1000	TA	HFO、MDO、MGO
7L21/31	2047	1505	1000	TA	HFO、MDO、MGO
8L21/31	2339	1720	1000	TA	HFO、MDO、MGO
9L21/31	2632	1935	1000	TA	HFO、MDO、MGO
6L27/38	2774	2040	800	TA	HFO、MDO
7L27/38	3237	2380	800	TA	HFO、MDO
8L27/38	3699	2720	800	TA	HFO、MDO
9L27/38	4162	3060	800	TA	HFO、MDO
6L27/38	2978	2190	800	TA	MGO
7L27/38	3475	2555	800	TA	MGO
8L27/38	3971	2920	800	TA	MGO
9L27/38	4468	3285	800	TA	MGO
6L32/40	4080	3000	720/750	TA	HFO、MDO、MGO
7L32/40	4760	3500	720/750	TA	HFO、MDO、MGO
8L32/40	5440	4000	720/750	TA	HFO、MDO、MGO
9L32/40	6120	4500	720/750	TA	HFO、MDO、MGO
12V32/40	8160	6000	720/750	TA	HFO、MDO、MGO
14V32/40	9520	7000	720/750	TA	HFO、MDO、MGO
16V32/40	10880	8000	720/750	TA	HFO、MDO、MGO
18V32/40	12240	9000	720/750	TA	HFO、MDO、MGO

WP2.1-WP3.9 Series Model List

Engine Model	HP	kW	RPM	Aspiration	Power output size
WP2.1C27E1	27	20	2000	NA	SAE3/10
WP2.1C35E1	35	26	2700	NA	SAE3/10
WP3.9C53E1	53	38	2000	NA	SAE3/10
WP3.9C61E1	61	45	2400	NA	SAE3/10

Remarks: NA- Naturally Aspiration T- Turbocharged TA- Turbocharged Aftercooled

CW200/250 Series Model List

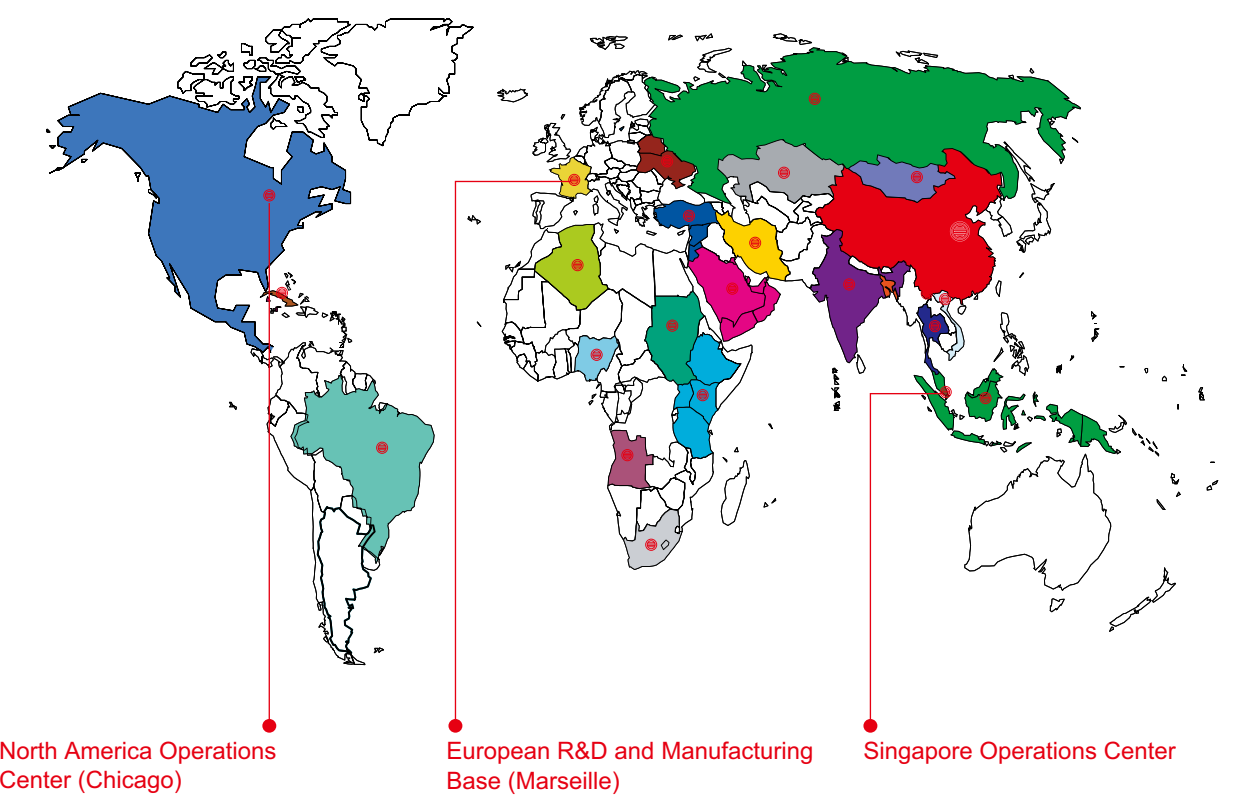
Engine Model	HP	kW	RPM	Aspiration	Fuel
XCW6200ZC-5	734	540	750	TA	MGO /HFO
XCW6200ZC-51	816	600	750	TA	HFO
CW6200ZC	816	600	1000	TA	MGO /HFO
CW6200ZC-5	734	540	900	TA	MGO /HFO
CW6200ZC-7	612	450	750	TA	MGO /HFO
XCW6200ZC	949	698	1000	TA	MGO /HFO
XCW6200ZC-1	979	720	1000	TA	MGO /HFO
XCW6200ZC-4	881	648	900	TA	MGO /HFO
XCW6200ZC-10	1102	810	1000	TA	MGO
XCW6200ZC-2	1126	828	1000	TA	MGO
CW8200ZC	1088	800	1000	TA	MGO /HFO
CW8200ZC-9	979	720	900	TA	MGO /HFO
XCW8200ZC	1262	928	1000	TA	MGO /HFO
XCW8200ZC-1	1306	960	1000	TA	MGO /HFO
XCW8200ZC-4	1175	864	900	TA	MGO /HFO
XCW8200ZC-10	1401	1030	1000	TA	MGO
CW12V200ZC	1632	1200	1000	TA	MGO /HFO
CW12V200ZC-2	1469	1080	900	TA	MGO /HFO
XCW12V200ZC	1893	1392	1000	TA	MGO /HFO
XCW12V200ZC-1	1958	1440	1000	TA	MGO /HFO
XCW12V200ZC-4	1763	1296	900	TA	MGO /HFO
CW16V200ZC-8	1958	1440	900	TA	MGO /HFO
CW16V200ZC-6	2176	1600	1000	TA	MGO /HFO
CW16V200ZC	2394	1760	1000	TA	MGO
CW6250ZLC	1999	1470	1000	TA	MGO /HFO
CW6250ZLC-1	1500	1103	750	TA	MGO /HFO
CW6250ZLC-2	1799	1323	900	TA	MGO /HFO
CW6250ZLC-3	1442	1060	720	TA	MGO /HFO
CW8250ZLC	2666	1960	1000	TA	MGO /HFO
CW8250ZLC-2	2394	1760	900	TA	MGO /HFO
CW8250ZLC-1	1999	1470	750	TA	MGO /HFO

Remarks: Light Diesel Oil And HFO 1500s (50 C , 120-180cst) according to different configuration
MGO- Marine Gas Oil MDO- Marine Diesel Oil HFO- Heavy Fuel Oil



INTERNATIONAL SERVICE NETWORK

Weichai Power has a broad market in 100 countries and regions , and covering five continents. Recently, it has had an international service network covering the global operations with 30 overseas institutions and 247 service agencies, which proves that Weichai Power has the initial ability to provide services to worldwide uses.



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