

# CHD316

## Marine Diesel Engine

The New Power Reference with Familiar Technology



### Engine Specifications

Engine Type	V type, 4-stroke
Cylinder Nos.	12, 16
Bore X Stroke	132mm X 160mm
Aspiration	Turbocharged & intercooled
Displacement	26.27, 35.03L
Rotation	Anti-clockwise facing flywheel
Flywheel/Housing	SAE 0/14
Gearbox Options	Reintjes, ZF or Twin discs
Noise Level	105 dB(A)
Emissions	IMO II (MARPOL)
First Major Overhauling Hrs	20000



### Power Ratings & Performance Data

Power Rating	Continuous duty				Heavy duty			
	1500		1800		2100		2165	
Rated, RPM								
Cylinder Nos.	V12	V16	V12	V16	V12	V16	V12	V16
kW (bhp), MCFN	468 (624)	624 (832)	595 (793)	794 (1058)	702 (935)	936 (1248)	839 (1118)	1107 (1475)
Fuel consumption at rated power, g/kw.hr	194	196	194	196	206	206	206	206
Fuel consumption at rated power, L/hr	109	146	138	186	173	230	206	272

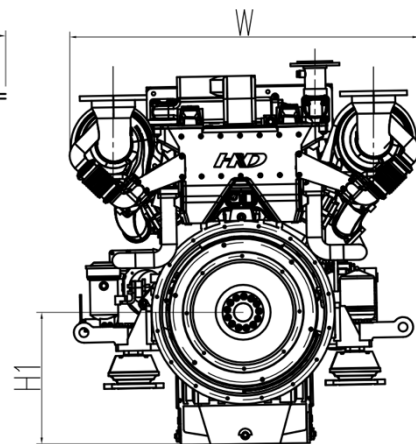
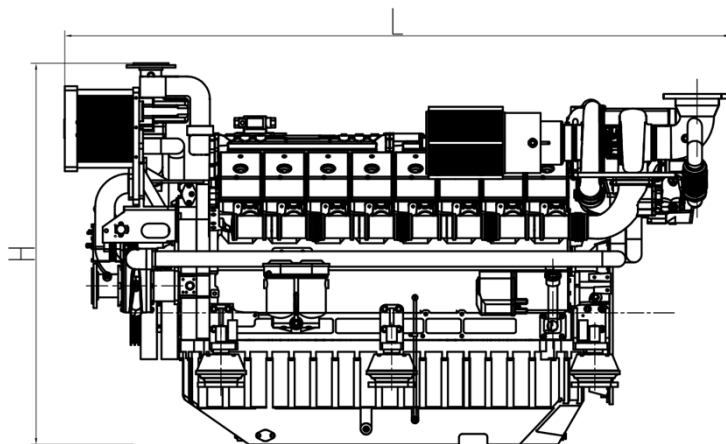
Typical Applications: e.g. pleasure crafts, ferries, crew boats, governmental vessels

### Engine Dimensions & Masses

Model	Length (L) mm	Width (W) mm	Height (H) mm	Height (H1) mm	Mass, dry KG
CHD316V12	2215	1318	1363	481.5	2420
CHD316V16	2585	1318	1393	511.5	3450

**Continuous duty:** Unrestricted load operations, load factor up to 80-100%, typical running hours more than 5000 hrs/year

**Heavy duty:** Varied load operations, allow 8 hours full load every 12 hours, mean engine load factor: 30-80%, typical running hours up to 5000 hours/year



**V16**

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### Standard Equipment

Starting system	24VDC electrical starter, 2 poles; AC28V, 2 poles
Fuel system	Inline fuel pump with full speed mechanical governor, jacked HP fuel injection pipe with fuel leak alarm, switchable duplex fuel oil filter, switchable fuel oil water separator (loose supplied), manual priming pump, flame proof fuel lines
Oil system	Attached gear driven lube oil pump, switchable duplex lube oil filter, by-pass centrifugal lube oil filter, fresh water cooled lube oil cooler, electrical lube oil priming pump (loose supplied), closed crankcase ventilation
Cooling system	Attached fresh water and raw water pumps, thermostat valve, fresh water/raw water plated type heat exchanger integrated with fresh water expansion tank
Combustion air system	Twin wet type turbochargers, raw water cooled air coolers, dry type air filters
Mounting system	Resilient mounts
Exhaust system	On-engine wet type exhaust manifold, dry type exhaust elbow after turbo, exhaust bellow, exhaust silencer with spark arrestor
Engine control system	Local engine control and alarm panel (loose supplied), remote engine control panel with harness
Gearbox supply	Raw water cooled lube oil cooler, flywheel housing with flexible coupling, oil gauges and oil thermometers, 24VDC/Mechanical directional control valve

### Optional Equipment

Starting system	Coolant preheating system, air starting system
Fuel system	Fuel oil return cooler
Transmission system	Front PTO (max 60% engine rated power)
Engine control system	LCD touch screen monitoring system, extra remote control panel
Gearbox supply	Gearbox alarm system, gearbox resilient mounts, gearbox PTO, trolling, trailing pump, propeller shaft flange, Torsional Vibration Calculation Booklet for class approval
Classification	ABS, BV, CCS, DNV-GL, LR, RS
Propulsion system	Shafting & propeller system, engine and gearbox throttle control system

**\*The rated power of the stated diesel engines corresponds to ISO 3046-1:2002(E) and ISO 15550:2002 (E).**

- Intake air temperature 25°C / Sea water temperature 25°C
- Intake air depression 2.5 kPa / Exhaust back pressure 2.5 kPa
- Barometric pressure 100 kPa
- No power reduction at 45°C / 32°C
- Air relative humidity 60%.

Specifications are subject to change without notice. All dimensions are approximate, for completed information refer to installation drawing. Consult us for further information.

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