

YC6T MARINE ENGINE

330-396kW (450-540Ps)

Model

Main engine

YC6T450C 330kW(450Ps)@1500rpm

YC6T510C 375kW(510Ps)@1800rpm

YC6T540C 396kW(540Ps)@1800rpm

Craft engine

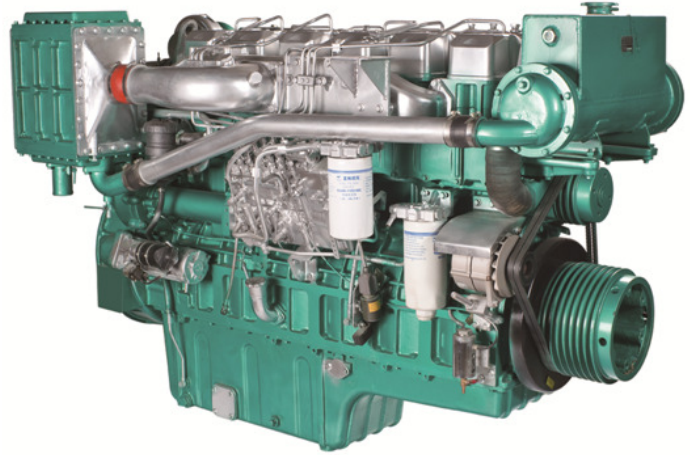
YC6T510C 375kW(510Ps)@1800rpm

YC6T540C 396kW(540Ps)@1800rpm

Auxiliary engine

YC6T450C 330kW(450Ps)@1500rpm

YC6T490C 360kW(490Ps)@1500rpm



Images shown may not reflect actual engines

SPECIFICATION

L-6,4-Stroke-Cycle-Diesel

Emissions	IMO/EPA Tier2
Displacement	16.35L
Compression ratio	15.5:1
Rated engine speed	1500-1800rpm
Bore	145mm
Stroke	165mm
Firing order	1-5-3-6-2-4
Aspiration	Turbocharged-Intercooled
Governor	Mechanical/Electronic tuned
Cooling System	Fresh water forced closed circulation cooling
Weight ,Net Dry(approx)	1,980kg
Refill Capacity	
Cooling System (engine only)	36L
Lube Oil System(refill)	52L
Oil Change Interval	250hrs
	CF-40 grade or above
Rotation	Counterclockwise(from flywheel end)
Flywheel and Flywheel housing	
Flywheel housing	SAENo.1
Flywheel	SAENo.14
Flywheel Teeth	123
Maximum Exhaust Back Pressure	10kPa
Dimension(LxWxH)	1 836 × 1 060 × 1 600



STANDARD ENGINE EQUIPMENT

Air Inlet System

- Intercooler- sea water, corrosion resistant
- Air cleaner
- Turbocharger

Exhaust System

- Water cooling exhaust pipe
- Turbocharger
- Dry Elbow
- Flexible fitting, exhaust corrugated pipe

Cooling System

- Thermostat
- Belt-driven centrifugal sea water pump
- Belt -driven centrifugal water pump
- Heat exchanger with expansion tank
- Engine oil cooler

Lube System

- Oil pump, gear driven
- Oil cooler
- Oil filter
- Bypass centrifugal oil filter
- Oil filler
- Dipstick
- Crankcase breather
- Deep center sump oil pan

Fuel System

- Fuel filter
- Oil water separator
- Fuel pump

- Fuel transfer pump
- Fuel cut solenoid valve

Control System

- Mechanical governor
- Electronic governor/ (auxiliary engine)
- Instrumentation(Digital LCD type):
engine speed and hours;
engine oil pressure and temperature;
engine jacket water temperature;
on/off key switch;
emergency stop button;
over speed shutdown and remote stop notification lights;
- Remote meter parts (Digital LCD type)
- 25m remote meter wiring harness

Starting/ Charging System

- Electronic starting motors(24V/7.5kW)
- *Charging alternator(28V/35A)*
[Single/double wire system (OPTIONAL)]

Certification/

- ISO Certification
Factory-designed systems built at Yuchai
ISO/TS16949:2009 certified facilities

General

- Crankshaft vibration damper
- Crankshaft pulley
- Lifting eyes
- Front support leg ,Rear support leg
- Tool box
- Workshop manual
- Parts catalogue
- Engine protective cover for shipping

OPTIONAL EQUIPMENT

Lube System

- Manual sump pump/ (use for removing waste oil)

Fuel System

- Fuel leakage gathering tank(compulsory for CCS/BV)

Control System

- The optional remote meter wiring harness length
(35/45m)

Starting/ Charging System

- Air starting motors

Certification

- Emissions Certification
IMO certifications for CCS
- Engine Certification
CCS

General

- Side access block
- Fumigation packing box (compulsory for export)