

engine design specifications

Engine Model	120-T4A	170-T6A
Cylinders	4	6
Cycles	Four	
Aspiration	Turbo	
Displacement – cu.in. (liters)	264 (4.3)	396 (6.5)
Bore and stroke – in. (mm)	4.13 x 4.92 (105 x 125)	
Compression ratio	17:1	
Cylinder head/block	Cast iron, replaceable dry liners	
Crankshaft	Forged high carbon steel	
Fuel system	High pressure direct injection	
Fuel injection pump	Zexel, in-line, Bosch "A" type	
Fuel supply and return piping – in. (mm)	3/8 (9.53) I.D.	
Fuel filter	Full flow, spin-on, paper element	
Cooling system	Fresh water cooled with oversized shell and tube heat exchanger	
Cooling capacity – qts. (liters)	17 (16.1)	25 (23.7)
Raw water connection – in. (mm)	1.25 (31.8) O.D.	
Raw water pump	Gear driven	
Exhaust manifold	Cast aluminum, fresh water cooled	
Exhaust elbow connection – in. (mm)	4.0 (101.6) O.D.	
Lubrication system	Full pressure feed	
Lube oil cooler	Fresh water cooled	
Lubricant capacity – qts. (liters)	4.5 (13.8)	22.0 (20.8)
Oil fill	Top	
Lube oil filter	Full flow, spin-on, paper element	
Electrical system	12 volts DC, negative ground	
Starting motor	2.9 kW, 12 volt solenoid, actuated shift	
Battery charging alternator	50 amp, 12 volt	
Starting aid	12 volt sheathed glow plug	
Cold cranking amps	400 amps @ 25 degrees C	
Start	Remote	
Mounting centers - in. (mm)	22.5 (571.5)	
Maximum angle of operation	10 degrees continuous, 30 degrees intermittent	
Propeller shaft rotation	Right hand – optional transmissions listed below	
Following Weights & Dimensions are:	Bobtail	
Dry weight – lbs. (kgs.)	838 (381)	1089 (495)
Engine dimensions – L x W x H in inches	39.10 x 28.26 x 32.04	48.72 x 28.01 x 32.54
Engine dimensions – L x W x H in millimeters	993 x 718 x 814	1237 x 711 x 827
Including optional transmission:	ZF45A Transmission	ZF63A Transmission
Dry weight – lbs. (kgs.)	987 (448)	1245 (565)
Engine dimensions – L x W x H in inches	47.20 x 28.26 x 32.04	57.50 x 28.01 x 32.54
Engine dimensions – L x W x H in millimeters	1199 x 718 x 814	1461 x 711 x 827

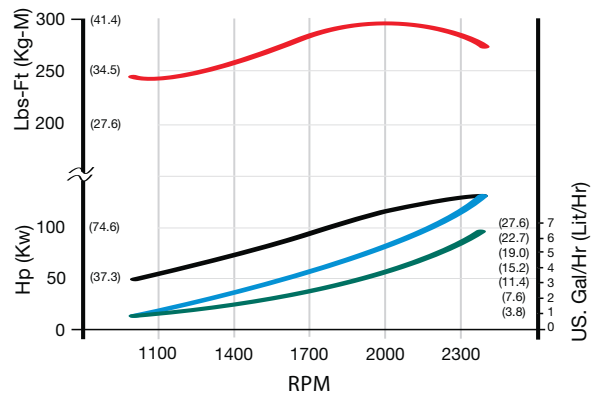


marine engines
the century series



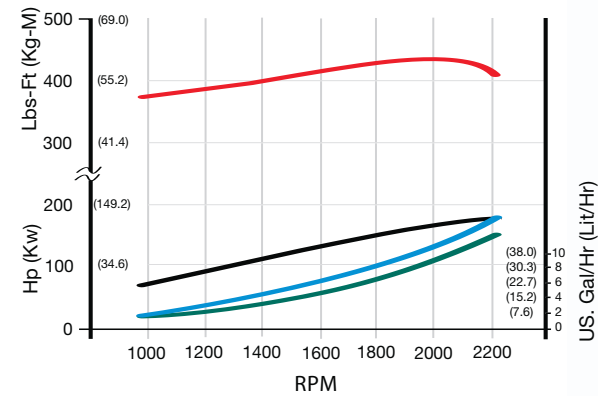
Performance Data

126 Horsepower (93 Kw) at 2400 RPM
Max. Torque = 296 Lbs-Ft. (41 Kg-M) at 2000 RPM



Westerbeke recommends a propeller that will allow the engine to turn 2400 RPM underway at full throttle

173 Horsepower (129 Kw) at 2200 RPM
Max. Torque = 431 Lbs-Ft. (59.6 Kg-M) at 2000 RPM



Westerbeke recommends a propeller that will allow the engine to turn 2200 RPM underway at full throttle





The Century Series Advantage

More Power, Less RPMs, Longer Life...

These engines operate at a comfortable

The Century Series is Westerbeke's answer to

2200 and 2400-rpm putting less stress on

the demand for low-stressed engines that have

the engine while providing optimum power.

a longer working life.

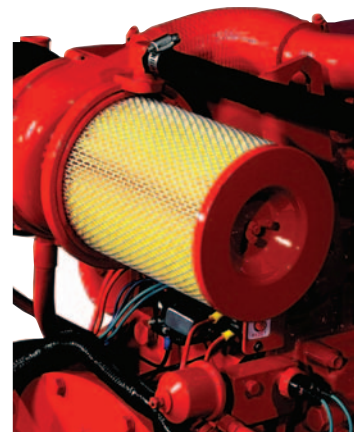
The Century Series engines are rated 126 and 173 horsepower. Both are ideal replacements for older engines installed in displacement hulls such as trawler yachts, for use in large sailboats and in many commercial applications.

Extremely Lightweight and Compact

The Century Series engines have some of the smallest and lightest power packages of their type. Westerbeke 4 and 6 cylinder models are light, low in height and short in length. For trawler Captains who can't afford a "wet boat," these lightweight engines allow for more cargo. For example, the 120-T4A produces 126 horsepower but weighs only 987 pounds (448 kilos)!

Smooth and Quiet Operation

The Century Series engines are equipped with four-point, fail-safe, vibration mounts that provide optimum vibration dampening. Also, an air intake with filter provides increased power while diminishing sound.



Engine

Turbo charged 4.3 and 6.5 liter engines power the Century Series. Both the cylinder head and block are cast iron while the crankshaft is made of pressed forged high carbon steel, high frequency hardened, for additional strength. Replaceable chromium plated, dry cylinder liners contribute to an extended engine life. Glow plugs aid cold weather starting. An easily accessible oil drain hose assists with routine maintenance.

Alternator

A standard 50 amp alternator provides battery charging power for your on board requirements.



Safety Devices

All Century Series engines are equipped with low oil pressure and high coolant temperature alarms and are pre-wired for a plug-in connection to an Admiral instrument panel. Additional safety devices include fail-safe mounts and an oil bypass alarm.

Cupro-Nickel Heat Exchanger

All Century Series engines are fresh water cooled with a standard cupro-nickel heat exchanger that mounts directly to the underside of the water-jacketed



exhaust manifold for more efficient cooling. This unique Westerbeke design and the use of cast aluminum piping minimizes the use of hose connections in the cooling system, providing added reliability and reduced maintenance.



Durable Anti-Corrosive Paint

Westerbeke's new paint system now offers increased resistance to the harsh marine environment through the use of an iron phosphate pre-treatment, a non-chrome sealer and a special high gloss acrylic enamel. Westerbeke's system is not only durable but environmentally friendly. The paint and sealers meet state and federal clean air and water standards.

Gear-Driven Raw Water Pump

A new gear-driven raw water pump, designed and manufactured by Westerbeke for optimum performance, is made of marine grade materials for the best possible corrosion protection.



Emission Standards & Regulations

All Century Series engines meet current EPA standards.

OPTIONAL ACCESSORIES

Engine Instrumentation Panel

The remote engine instrumentation panel includes water temperature and oil pressure gauges, voltmeter and hourmeter as well as preheat and start/stop push buttons.

Electrical Systems

Twenty-four volt electrical systems and ungrounded electrical systems are available to supply a product customized to the owners' requirements.



Dual Remote Panels

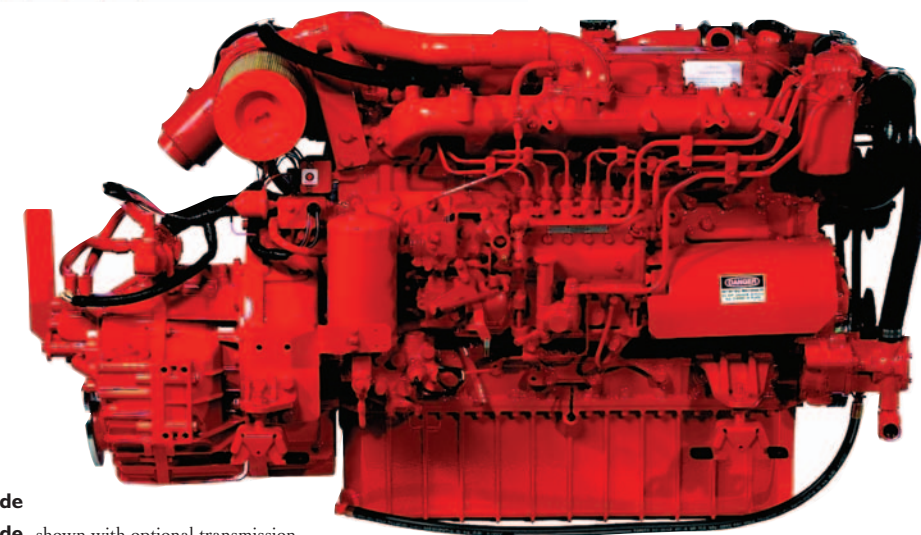
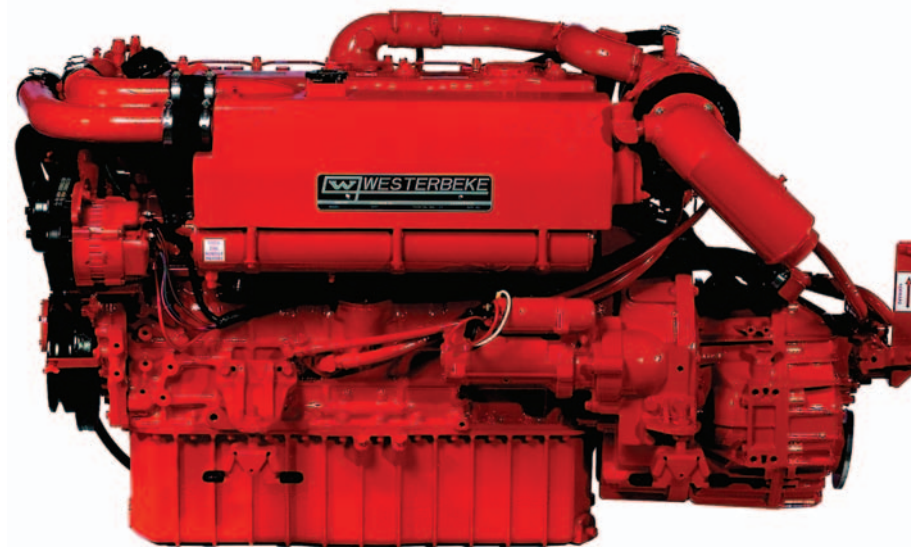
Secondary remote instrument panels are available with 15 foot plug-in harnesses. Harnesses are equipped with a special molded, plug-in connector for extended lengths.

A Large Variety of Transmissions & Reduction Ratios

Century Series propulsion engines are offered with many optional transmissions and reduction ratios to meet specific applications.

Also Available

Other options such as keel cooling, domestic hot water connections, spare parts kits, larger battery charging alternators, refrigeration compressor mounts, battery splitters, remote lube oil filters, fuel-water separators with filter, hydro-hush mufflers and anti-siphon valves with stainless loops are also offered.



above: engine left side
below: engine right side shown with optional transmission