

## Engine Z4.380TDI

128.8 kW (175 hp) at 3600 rpm

### Toyota engine base

The design of the Z4.380 is based on the 4 cylinder diesel engine which is used and tested on the Toyota Land Cruiser 4x4. The robustness of its engine block and its cast iron cylinder head as well as the efficiency of the different heat exchangers that compose the marinization developed by Nanni Diesel give you the assurance of quality, reliability and longevity that have already convinced many renowned boat builders. This 3 litres engine is combined with a Stern Drive transmission presenting the perfect package for fast, planning hulls.

### Smooth and performing

The Z4.380 boasts 4 in line cylinders and 2 balancing shafts which result in unprecedented smoothness providing very quiet and virtually vibration-free propulsion comfort. With 3 litres engine capacity and high torque at low speed the hole-shot of your boat is quicker and the obtained cruising speed at low rpm ensures low fuel consumption.

### Compact and powerful

The power to weight ratio of this 175 horsepower engine is one of its greatest advantages. Its reduced dimensions ease installation and have already made it a preferred option on numerous boats. With this engine you can count on the most dynamic motorization with plenty of power reserve for all situations.

### Stern Drive transmission

This engine coupled to a stern drive transmission gives you the best of both worlds. Inboard reliability and outboard convenience and space saving. The steering and trim are incorporated in the stern drive allowing you to chose the best planning angle for your hull. Fully trimmed up you can reach your most desired beaches without any worries.

### Protecting the environment

The engine complies with the most stringent emission regulations in the world : EU-RCD, US-EPA and BSO.

### Main characteristics

- Toyota engine base
- Turbo Intercooler
- Stern Drive
- Wide range of propellers
- High torque and displacement

### Available transmissions

- Bravo X One
- Bravo X Two
- Bravo X Three

### Applications

- Semi-planning hulls
- Planning hulls

### Technical specifications

Engine base	Toyota
Rated power (kW/hp)*	128.8 / 175
Rated rpm (rpm)*	3600
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	2982 / 181.97
Number of cylinders	4 in line
Bore and stroke (mm/in)	96 x 103 / 3.77 x 4.05
Compression ratio	19.7:1
Combustion system	Indirect
Intake	Turbo compressor & Intercooler
Cooling	Closed cooling with Heat exchanger
El. equipment / Alternator	12V / 80A
Instrument panel	C4 separated instruments
Weight with transmission (kg/lb)	430 / 948
<b>Stern Drive</b>	
Bravo X One	Depending on the application
Bravo X Two	Ratio 1,50 to 2,00
Bravo X Three	Aluminum or Stainless steel propellers

### Connections diameters

Fuel (mm/in)	10 / 0.39
Sea Water (mm/in)	38 / 1.49

\* At engine flywheel, according to ISO 8665-1

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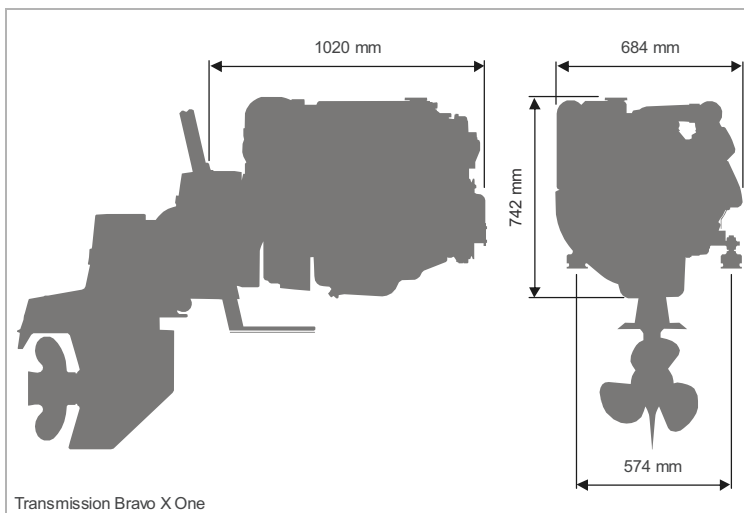


## Standard equipment

- Warranty certificate
- Fresh water cooled exhaust manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- Fuel filter & water alarm
- Oil filter
- Owner's manual
- Oil extraction pump
- Sea water pump
- Coolant circulating pump
- Fuel feed pump
- Rotary injection pump
- Prearrangement for control cables
- Engine oil cooler
- Electrical stop
- Flexible mounts
- Electrical Wiring 12V
- Thermostat
- Turbo Compressor & intercooler
- Power steering kit
- Trim indicator
- Engine wiring
- Transom Mercruiser (Trim, Bull Horn et Mercatode)

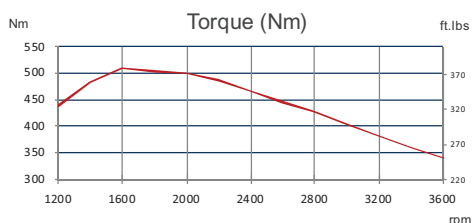
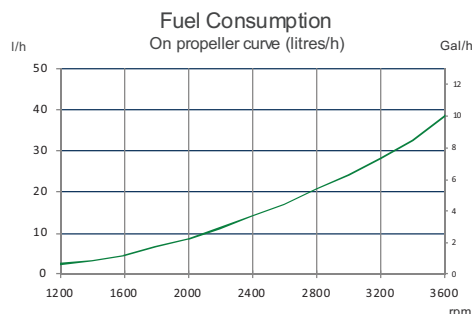
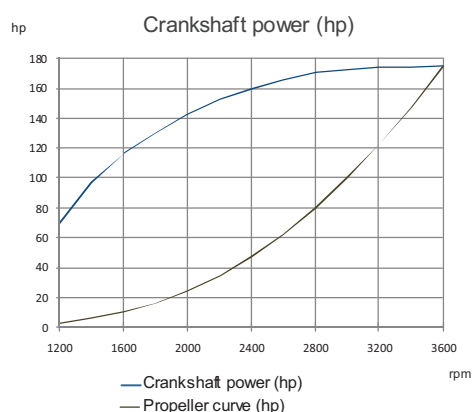
## Optional equipment

- Remote control
- Control cables
- Extension harness
- Trim indicator extension harness
- Trim control extension harness
- Separated trim control
- Fuel level indicator
- Fuel level gauge
- Speedometer
- Sea water intake
- Bravo X One, Bravo X Two, Bravo X Three
- Aluminum or Stainless steel propellers
- Steering bar (twin engine installation)
- Instrument panel or separated instruments



Transmission Bravo X One

The shown models are not necessarily identical to current production



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