Z4.230 Specifications



Power at crankshaft	169.1 kW [230 hp]
Displacement	2.982 l [182 in ³]
Configuration	4 cylinders in line
Operation type	4 stroke Diesel
Bore & Stroke	96 x 103 mm [3.78 x 4.06 in]
Compression ratio	15:1
Rated speed	3600 rpm
Idling speed	700 rpm
Peak torque	668.5 Nm
Peak torque speed	2000 rpm
Dry weight	
with Bravo X Two	472 kg [1040 lbs]

Engine base	Toyota
Fuel system	Direct injection High pressure Common Rail Electronically controlled
Air intake	Turbocharged with intercooler
Cooling	Closed cooling with heat exchanger
Max mounting angle	7° Front up 7° Front down
Alternator	12 Volt 100 Amp
Rating	M6
Emission compliance	IMO Annex VI compliant RCD 2013/53/EU EPA marine Tier 3 BSO 2



Z4.230

169.1 kW [230 hp] at 3600 rpm

TECHNICAL DESCRIPTION

Engine block

4 cylinders in line 4 valves per cylinder Dual overhead camshafts (DOHC) Watercooled exhaust manifold Internal balancers

Fuel system

Common Rail fuel injection system Fuel filter with hand primer Integrated fuel cooler

Lubrication system

Replaceable full-flow oil filter Oil dipstick Transmission oil cooler

Cooling system

Closed cooling with heat exchanger Gear driven self-priming raw water pump Coolant circulating pump Water cooled exhaust elbow

Electrical system & Instrumentation

12V 100A alternator 12V Electrical system Complete instrumentation including key switch and alarms Extension cable harness with plug-in connection

Air intake

Dry turbocharger Intercooler

Other features

Flexible engine mounting Transom (Trim system, Bull Horn and Mercathode) Trim indicator

DIMENSIONS WITH BRAVO X TWO

Optional equipment & accessories

- Throttle and shift controls
- Additional instrumentation, Flying bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems

RATING

Up to 500 annual operating hours Load factor up to 35% Full power for no more than 30 minutes out of each 8 hours of operation. The remaining operation time must be at or below cruising speed

TRANSMISSIONS

Stern Drive

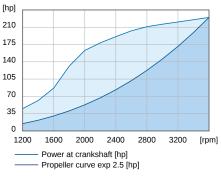
Bravo X One

- Bravo X Three
- Bravo X Two

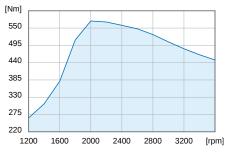
Contact your local dealer for more details and availability for transmission model and type.

PERFORMANCE CURVES

Power at crankshaft

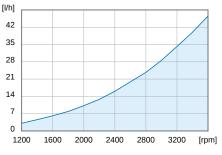


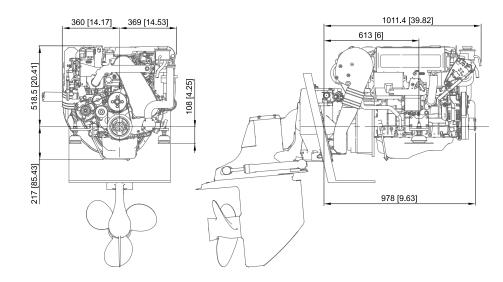
Torque at crankshaft



Fuel consumption

At calculated propeller load exp 2.5





Nanni Diesel Australia

26/17-21 Bowden St Alexandria, NSW. 2015 Australia Tel: (02) 9319 5222 Email: engines@nannidiesel.com.au Technical data according to ISO 8665. Specifications are subject to change without notice. Images and illustrations may shown non standard equipments. All combination of equipment & accessory are not available. 20160303-A ENG