

T4.150-Evo3



Power at crankshaft	111 kW [151 hp]
Displacement	2.755 l [168 in³]
Configuration	4 cylinders in line
Operation type	4 strokes Diesel
Bore & Stroke	92 x 103,6 mm [3.62 x 4.07 in]
Compression ratio	15.6 : 1
Rated speed	2900 rpm
Idling speed	700 rpm
Peak torque	440 Nm
Peak torque speed	1800-2000 rpm
Engine base	Toyota
Fuel system	Direct injection Common Rail Electronically controlled
Air intake	Turbocharged with intercooler
Cooling	Closed cooling with heat exchanger
Max mounting angle	7° Front down 7° Front up
Alternator	12 Volt 130 Amp
Rating	M5
Emission compliance	IMO II Annex VI Compliant RCD 2013/53/EU EPA marine Tier 3 BSO2
Dry weight	334 kg [736.3 lbs]

Engine block

- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

Fuel system

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

Lubrication System

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

Cooling system

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

Electrical system & instrumentation

- 12 V / 130 Å alternator
- 12 V Electrical system
- Complete instrumentation including key switch & alarms
- Extension cable harness with plug-in connection

Air intake

- Turbocharger
- Intercooler

Other features

Flexible engine mountings

Optional equipments & accessories

- Complete marine propulsion systems
- Marine transmission adaptation kits
- Throttle and shift controls
- Additionnal instrumentation, Flying bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems
- Trolling valve
- Switchable Turbine Fuel Prefilter
- Exhaust Muffler & Connections
- Sea water Circuit Kit

Command Panel SI-5

- Engine RPM
- Oil Pressure
- Water Temperature
- Engine Hours
- Trim Indicator
- Fuel Level
- Nmea 2000
- J1939 CAN BUS







Transmission

- TTM40A
- TTM50A
- ZF45A
- ZF68A

For other transmission requests, please contact technical support.

Stern drive

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

LUBRICATION SYSTEM

Oil pressure @ idle speed	bar	1
	psi	7.3
Oil propoure @ reted apped	bar	4.5
Oil pressure @ rated speed	psi	65.3
Oil quantity excluding filter @ 0° angle	liters	7.5
on quantity excluding litter (w o angle	gal US	1.98
Maximum permitted installed tilt angle	front down	°7
	front up	°7
Maximum permitted intermittent angle	tilt	°15
maximum permitted intermittent angle	side tilt	°7

PERFORMANCE

RPM @ cranckshaft	rpm	700	1200	1600	2000	2400	2700	2900	3100
Torque @ cranckshaft	Nm	216.9	252.3	354.5	446	417.4	385.5	365.5	246.1
Torque @ cranckshart	ft-lb	160	186.1	261.5	329	307.8	284.3	269.6	181.5
Power @ cranckshaft	hp	21.6	43.1	80.8	127	142.7	148.2	151	109
	Kw	15.9	31.7	59.4	93.4	104.9	109	111	79.9
Power at calculated propeller load exp.3	hp	10.8	25	46.8	77.4	117.5	168	229.7	265
rowei at calculated propeller load exp.3	Kw	7.9	18.4	34.4	56.9	86.4	123.5	168.9	194.9

FUEL SYSTEM

RPM @ cranckshaft	rpm	700	1200	1600	2000	2400	2700	2900	3100
Fuel consumption propeller load exp.3	l/h	1	2,03	4,82	9,43	16,29	23,20	28,75	-
Tuel consumption properler load exp.3	gal US/h	0,26	0,53	1,27	2,49	4,30	6,12	7,59	
Fuel consumption at full load	l/h	5	7.5	17	24	26	28	29	22
Fuel consumption at full load	gal US/h	1.3	3.2	4.5	6.3	6.9	7.4	7.7	5.8
Maximum permitted fuel inlet pressure	kPa	-30 / +20							
Maximum permitted ruei iniet pressure	psi	-4.4 / +2.9							
Maximum permitted fuel return pressur	kPa	20							
maximum permitted fuel return pressur	e psi	2.9							



COOLING SYSTEM

Coolant circulation pump flow	l/min	160
	gal US/min	47.5
Raw water pump flow	l/min	155
naw water pump now	gal US/min	35.1
Total heat rejection at rated speed	kW	124
Total fleat rejection at rated speed	BTU/min	_
Total coolant capacity	I	15
Total coolant capacity	gal US	3.96
Thermostat start open at	°C	80
Thermostat, start open at	°F	181
Thermostat, fully open at	°C	94
memostat, runy open at	°F	203

EXHAUST SYSTEM

Exhaust gas flow	m³/min	22.10
	ft³/min	780
Permitted back pressure	kPa	20
in the exhaust line	inH₂O	120.4
Maximum exhaust temperature	°C	550
	°F	1076

AIR INTAKE SYSTEM

m³/min	12.4
ft³/min	241.5
°C	50
°F	122
°C	20
°F	68
kPa	3
inH₂O	12
kPa	6.25
inH₂O	25.1
kPa	170-175
psi	24.6 / 25.3
	ft³/min °C °F °C °F kPa inH,0 kPa inH,0

ELECTRICAL SYSTEM

Alternator	voltage	٧	12
Alternator	amperes	Α	130
Electric starter motor	kW		2.7
Battery, minimum cold start current	CCA		650 min
Recommanded batterie K20	A/h	1	00 to 120

DRY WEIGHT

	kg	334
Weight without transmissi	lbs	736.3
Dry weight with TTM40A	kg	404
	lbs	736.3

INSTALLATION TIPS

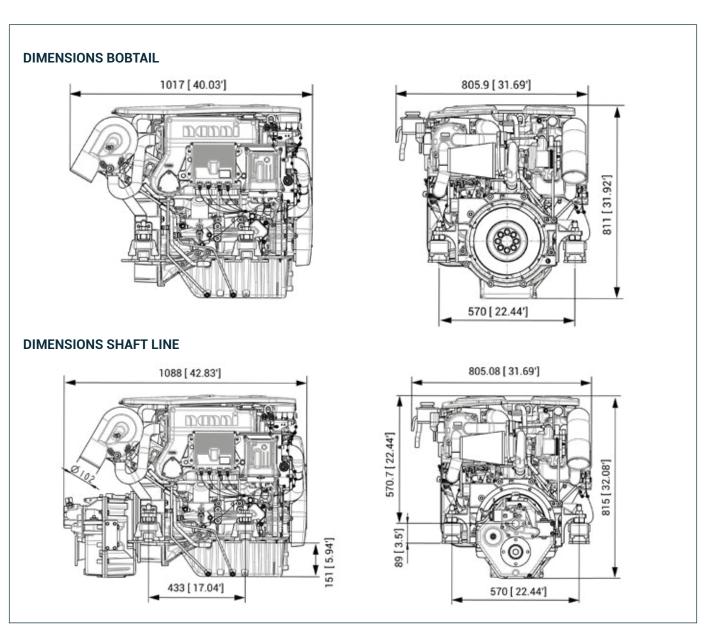
Fuel line supply diameter	mm	10
ruei iiile suppiy diametei	in	0.39
Fuel line return diameter	mm	10
	in	0.39
Sea water line diameter	mm	38
Sea water line diameter	in	1.5
Exhaust line diameter	mm	104
Litiaust iiile diametei	in	4.1

RATINGS

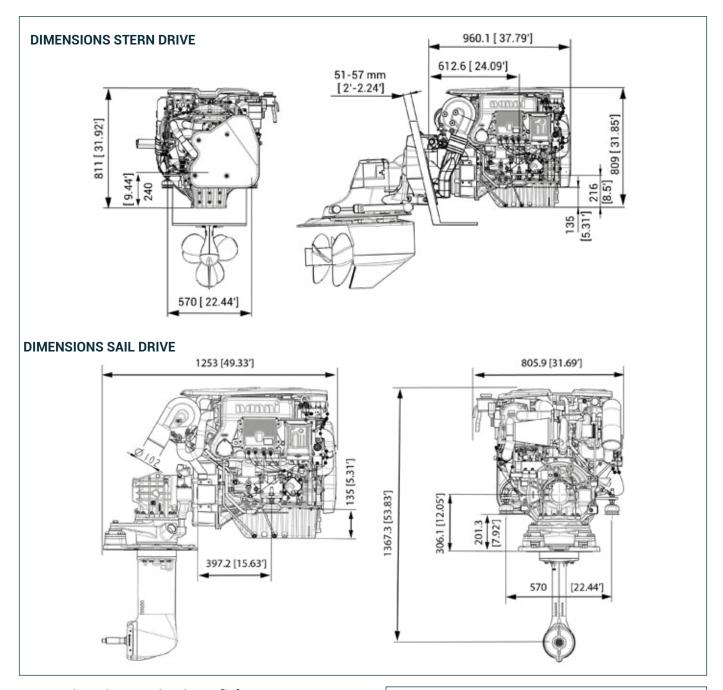
M5
Up to 1000 annual operating hours
Up to 35 %
Full power for no more than
minutes out of each 8 hours of operation.
he remaining operation time must be at or
below cruising speed.



PROPULSION ENGINE PERFORMANCE CURVES Power at crankshaft Torque at crankshaft Fuel consumption @ exp3 [kW] 120 [Nm] [l/h] 2800 3000 2600 2600 Power at crankshaft [kW] Power at calculated propeller load exp 3







NOTE 1: Dimensions are given in mm [in.].

NOTE 2: data are subject to change witout notice. Text and illustrations are not binding. This document is not suitable for vessel installation.

NOTE 3: Technical data according to ISO 8665.

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