

# Engine catalogue

## Marine Diesel engines

Kubota based

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**nannidiesel**

energy in blue

ENG

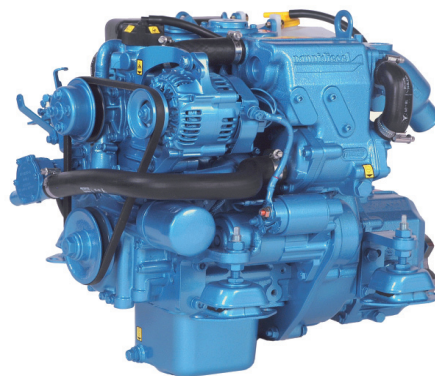
10 November 2010



# Marine Diesel engines



Engine	Power hp	Power kW	Num. of cylinders	Speed rpm	Displa- cement cm3	Available versions
N2.10	10	7.36	2	3000	479	Shaftline / Sailandrive
N2.14	14	10.3	2	3600	479	Shaftline / Sailandrive
N3.21	21	15.4	3	3600	719	Shaftline / Sailandrive
N3.30	29	21.3	3	3600	1123	Shaftline / Sailandrive
N4.38	38	27.6	4	3000	1498	Shaftline / Sailandrive
N4.40	40	29.4	4	2800	1999	Shaftline / Sailandrive
N4.50	50	36.8	4	2800	2197	Shaftline / Sailandrive
N4.60	60	44.2	4	2800	1999	Shaftline / Sailandrive
N4.85	85	62.5	4	2800	3053	Shaftline
N4.100	100	73.6	4	2800	3053	Shaftline
N4.115	115	84.6	4	2600	3769	Shaftline
4.340TDI	130	95.7	4	2600	3319	Shaftline



## N2.10 Engine

7.36 kW (10 hp) at 3000 rpm

### Kubota base engine

Nanni Diesel has forged a strong partnership with Kubota. Kubota engines are known for their robust design, great reliability and excellent longevity. Advanced technologies used by Kubota on their latest generation engines are also employed by our N2.10.

### Environmental - Tri Vortex Combustion System (E-TVCS)

The N2.10 is equipped with the E-TVCS combustion and injection system which considerably reduces particulate emission and smoke while dramatically improving fuel efficiency.

### Comfort

The N2.10 is a 2 cylinder engine with low speed of 3000 rpm and optimised flywheel ensuring excellent comfort concerning sound and vibration levels.

The engine produces significant power and high torque at low rpm for worry free port manoeuvring. An optional boiler can easily be connected to the heat exchanger.

### Saving space and weight

Saving space, the dimensions of the N2.10 are almost identical to 1 cylinder engines of the competition without a heat-exchanger. Its low weight allows it to be easily installed in small motor boats and small racing sailing boats or cruising boats. Also the design of the motor mounts and the exhaust system facilitate easy repowering of your boat.

### Protecting the environment

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

### Main characteristics

- Kubota base engine
- E-TVCS injection system
- Low rpm
- Space saving
- Light weight

### Available transmissions

- TMC40 (mechanical)
- Sail Drive SP60 ratio. 2.38:1

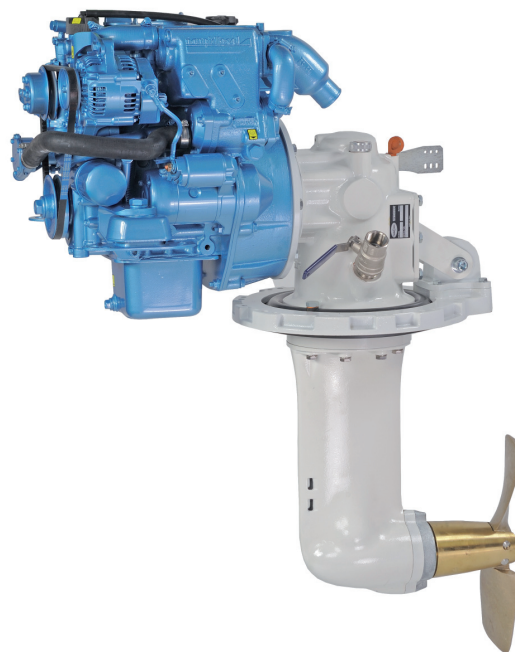
### Applications

- Sailing boat
- Displacement hulls

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	7.36 / 10
Rated rpm (rpm)*	3000
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	479 / 29.23
Number of cylinders	2 in line
Bore and stroke (mm/in)	67 x 68 / 2,64 x 2.68
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 40A
Instrument panel	Eco3
Transmission	Gearbox TMC40 Sail Drive SP60 ratio. 2.38:1
Engine Max. Install. Angle	15° (dynamic)
Certifications	EPA, BSO, SAV, EU-RCD
Dry weight with TMC 40 (kg/lb)	87 / 191.4
Dry weight with Sail Drive (kg/lb)	123 / 271.2
<b>Connections diameter</b>	
Exhaust (mm/in)	40 / 1.57
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	20 / 0.79

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



# N2.10 engine

7.36 kW (10 hp)

## Standard equipment

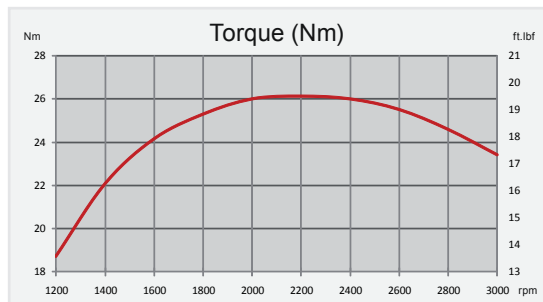
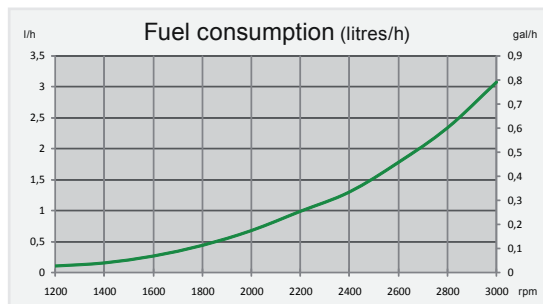
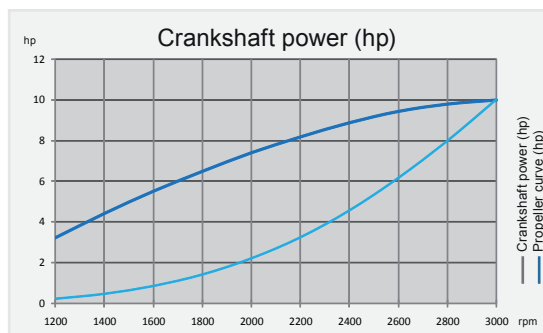
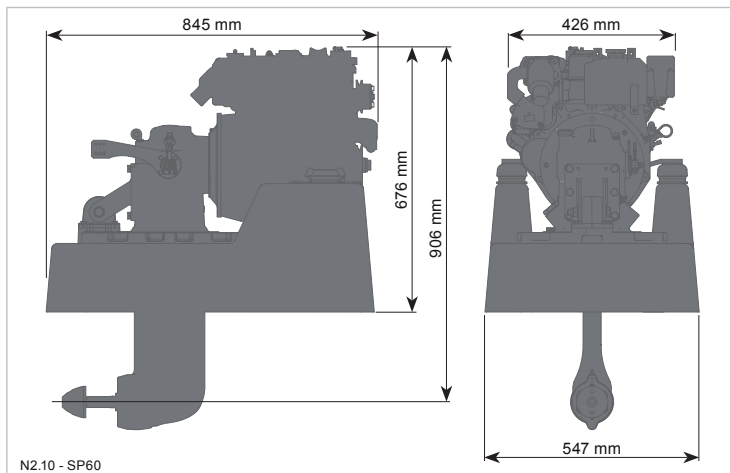
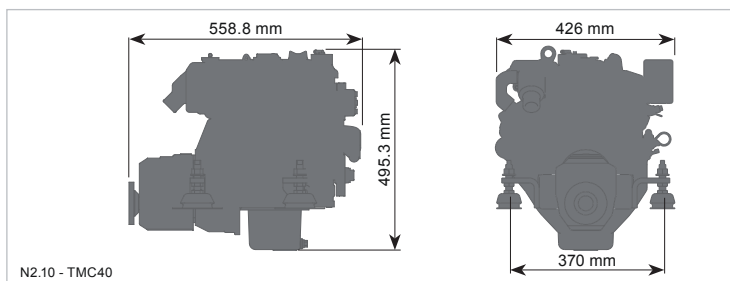
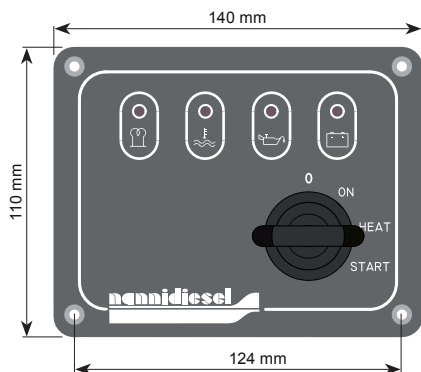
- Polyester frame (for Sail Drive version)
- Exhaust elbow
- Closed cooling with heat exchanger
- 2 meter electrical harness
- Fuel filter
- Oil filter
- Mechanic gearbox TMC 40 or Sail Drive SP60
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Control cables mounting points
- Flexible engine mounts
- Electrical system 12V
- Thermostat
- Owner's manual
- Warranty certificate

## Optional equipment

- Keel Cooling
- Two pole electrical system
- Mechanical stop
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter

## Eco3 panel

- Oil pressure warning light and acoustical alarm
- Water temperature warning light and acoustical alarm
- Alternator warning light
- Glow plug pilot light
- Ignition start key



Your dealer

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## N2.14 Engine

10.3 kW (14 hp) at 3600 rpm

### Kubota base engine

Nanni Diesel has forged a strong partnership with Kubota. Kubota engines are known for their robust design, great reliability and excellent longevity. The N2.14 is equipped with a fast preheating system improving start-up time even at low outside temperatures.

### New injection system

The N2.14 has less particulate emission and smoke due to the improved combustion and injection system E-TVCS (Environmental-Tri Vortex Combustion System). This combustion chamber design optimises the engine efficiency, resulting in excellent onboard comfort and reduced fuel consumption.

### Adaptable

The N2.14 offers several onboard installation options making it suitable for a vast variety of boats.

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	10.3 / 14
Rated rpm (rpm)*	3600
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	479 / 29.23
Number of cylinders	2 in line
Bore and stroke (mm/in)	67 x 68 / 2,64 x 2.68
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 70A
Instrument panel	A4
Transmission	Mechanical gearbox Sail Drive SP60 ratio. 2.38:1
Engine Max. Install. Angle	15° (dynamic)
Certifications	EPA, BSO, SAV, EU-RCD
Dry weight with TMC40 (kg/lb)	92 / 203
Dry weight with Sail Drive (kg/lb)	127 / 280
<b>Connections diameter</b>	
Exhaust (mm/in)	40 / 1.57
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	20 / 0.79

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

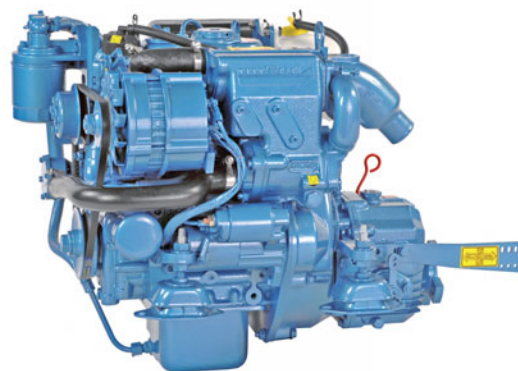
Repowering your boat is a breeze with our installation kits which are specifically designed to eliminate the need to modify the frame of your existing engine compartment.

### Saving space and weight

Due to its excellent power to weight ratio, the N2.14 is the perfect propulsion choice. Its small dimensions as well as the optional gearbox or sail drive transmission ease its onboard installation on motor boats with limited space as well as on small sailing boats or cruising boats.

### Protecting the environment

The N2.14 complies with the most stringent emission regulations in the world: EU-RCD, US-EPA and BSO.



### Main characteristics

- Kubota base engine
- Low rpm
- Space saving
- Light weight

### Available transmissions

- TMC40 (mechanical)
- TTMC35A (mechanical) 7°
- Sail Drive SP60 ratio. 2.38:1

### Applications

- Sailing boat
- Displacement hulls



# N2.14 engine

10.3 kW (14 hp)

## Standard equipment

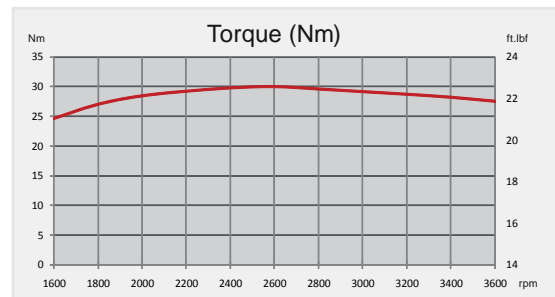
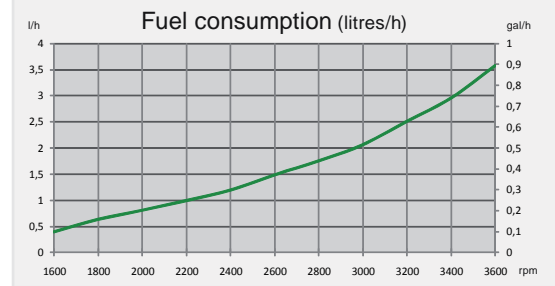
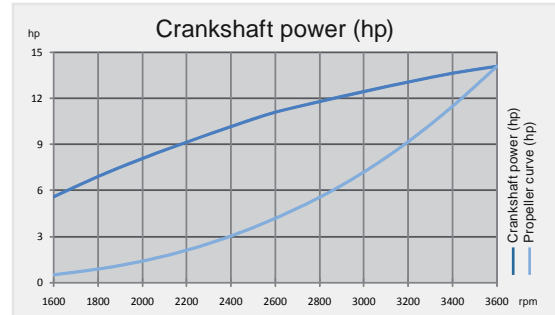
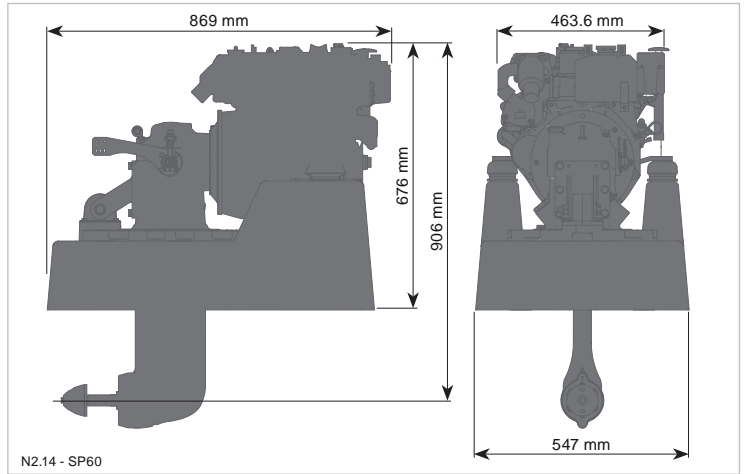
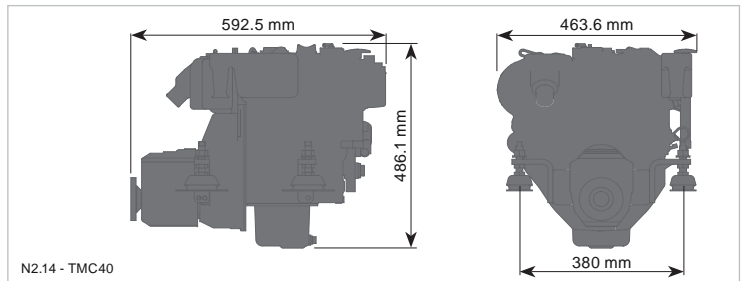
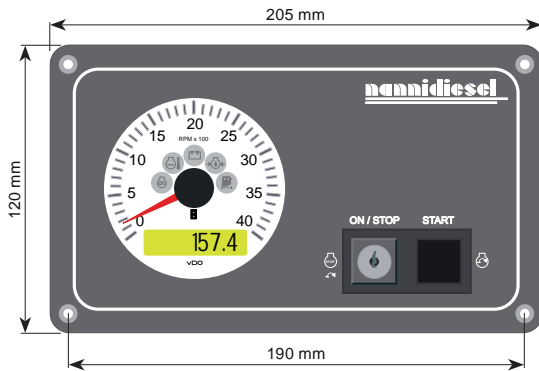
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## A4 panel

- Tachometer and hour meter / Voltmeter
- Ignition key / Start button
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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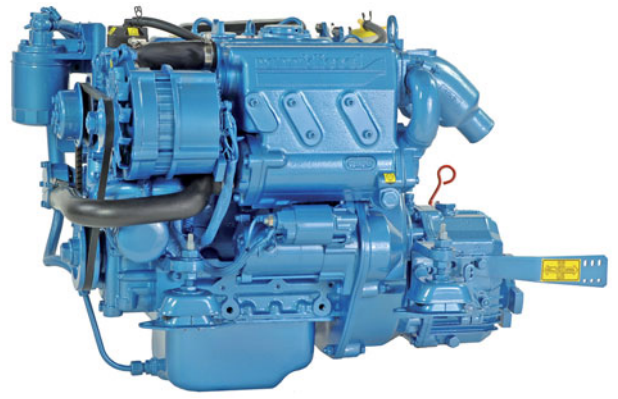
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# N3.21 engine

15.4 kW (21 hp) at 3600 rpm



## Kubota engine base

The latest technologies employed by Kubota resulted in a robust design for the N3.21.

The industrial engine base is proven in the most difficult conditions of usage.

## Reliability and Comfort

This engine has a proven reliability record and the new marinization has even added to its quality level.

The latest generation heat exchanger improves the temperature regulation, which quality can particularly be appreciated when a boiler is installed. This system further increases the reliability and longevity of the N3.21.

A special coating of the pistons with molybdenum lowers friction and reduces engine vibrations resulting in supplementary comfort concerning the sound levels.

## Ease of installation

The N3.21 offers several onboard installation options making it suitable for a vast variety of boats.

Repowering your boat is a breeze with our installation kits which are specifically designed to eliminate the need to modify the frame of your existing engine compartment.

## Clean power supply

The N3.21 does not need electronic equipment to comply with the latest environmental requirements on raw materials. The emission regulations EU-RCD, US-EPA and BSO are easily complied with as the result of the improved combustion and injection system E-TVCS (Environmental-Tri Vortex Combustion System). The particulate emission and smoke have been significantly reduced and the fuel consumption has been dramatically improved.

## Main characteristics

- Kubota base engine
- Optimized cooling system
- E-TVCS injection system
- Wide range of equipment
- Ease of repowering

## Available transmissions

- TMC40 (mechanical)
- TTMC35A (mechanical) 7°
- Sail Drive SP60 ratio. 2.38:1

## Applications

- Sailing boat
- Displacement hulls

## Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	15.4 / 21
Rated rpm (rpm)*	3600
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	719 / 46.86
Number of cylinders	3 in line
Bore and stroke (mm/in)	67 x 68 / 2,64 x 2.68
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 70A
Instrument panel	A4
Transmission	Mechanical gearbox Sail Drive SP60 ratio. 2.38:1
Engine Max. Install. Angle	15° (dynamic)
Certifications	EPA, BSO, SAV, EU-RCD
Dry weight with TMC40 (kg/lb)	106 / 233
Dry weight with Sail Drive (kg/lb)	144 / 311
<b>Connections diameter</b>	
Exhaust (mm/in)	40 / 1.57
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	20 / 0.79

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





# N3.21 engine

15.4 kW (21 hp)

## Standard equipment

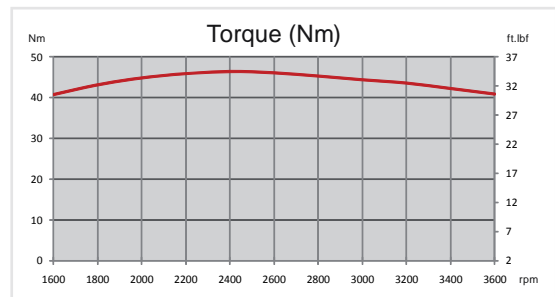
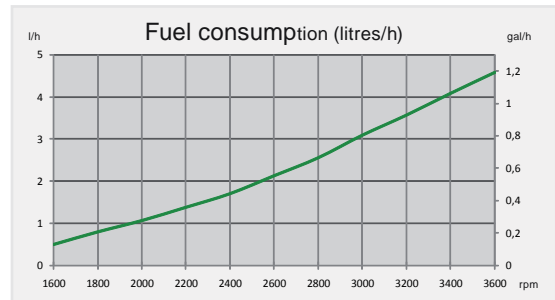
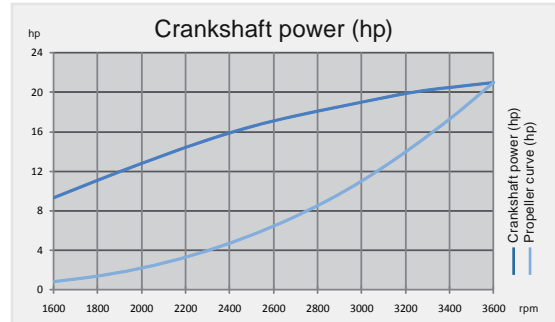
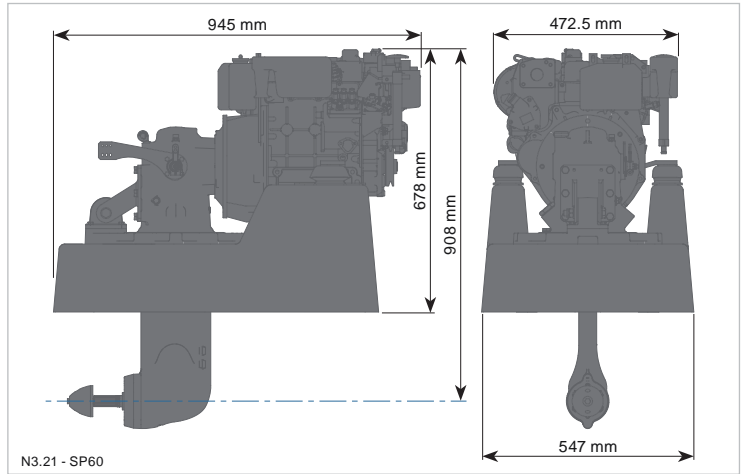
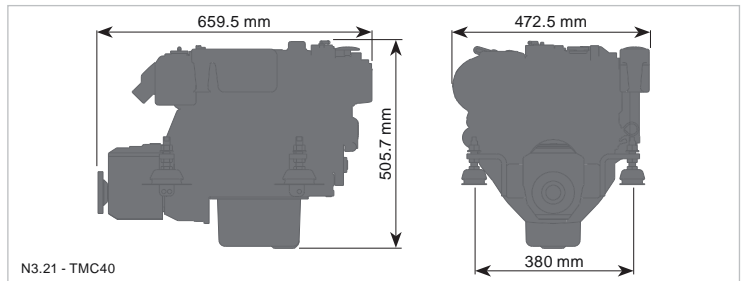
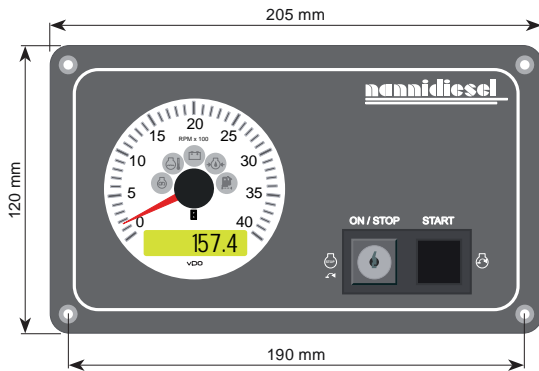
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## A4 panel

- Tachometer and hour meter / Voltmeter
- Ignition key / Start button
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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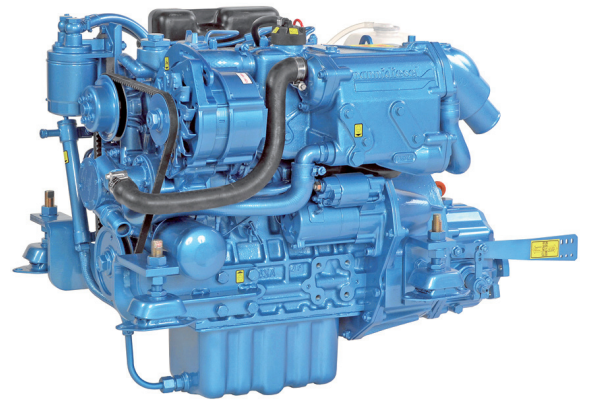
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## N3.30 engine

21.3 kW (29 hp) at 3600 rpm

### Marine Propulsion Specialist

The combination of over 40 years experience with Nanni Diesel's engineering team in marinising and complete marine propulsion systems with Kubota's leading technology in diesel engine manufacturing has resulted in the N3.30 becoming the preferred choice for skippers and boat owners around the world.

### Reliability and comfort

Kubota engines are renowned for their robust design, reliability and advanced technologies. Add to this the modern marinising equipment including the latest generation of heater changer and you have an engine built for the most arduous of applications providing longevity and low maintenance cost.

With a cast iron cylinder block and cylinder head, timing gears rather than timing belt and direct driven raw water pump maintenance is straightforward and minimal. Quiet smooth running is assured with a high inertia flywheel and a special coating of the pistons which lowers friction and reduces engine vibrations.

Its SOLAS (Safety Of Life At Sea) certification also proves that the engine meets the stringent safety standards currently in effect for lifeboat engines - giving further confidence to the owner.

A complete range of electrical generators developed by Nanni Diesel enables the N3.30 to supply all the electricity required for comfort equipment and electronic navigation devices on board.

### Protecting the environment

The N3.30 complies with the most stringent emission regulations in the world : EU-RCD, US-EPA and BSO.

The E-TVCS combustion and injection system also considerably reduces particulate emission and smoke throughout the rpm range while dramatically improving fuel efficiency.

### Ease of Installation

Its compact size and weight makes this an ideal choice for a new build project or repowering as specially adapted feet and installation kits can be provided to suit most applications making this task much easier.

### Main characteristics

- Kubota base engine
- Electrical equipment
- E-TVCS combustion system
- Smooth running and low weight

### Available transmissions

- TMC40 (mechanical)
- TTMC35A (mechanical) angle 7°
- TTMC35P (mechanical)
- ZF10M (mechanical)

### Applications

- Sailing boat
- Displacement hulls

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	21,3 / 29
Rated rpm (rpm)*	3600
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	1123 / 68,53
Number of cylinders	3 in line
Bore and stroke (mm/in)	78 x 78.4
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	A4
Transmission	Mechanical or hydraulic gearbox Sail Drive SP60 ratio. 2.38:1
Engine Max Install. Angle	15° (dynamic)
Certifications	EPA, EU-RCD, BSO, SAV, SOLAS
Dry weight with TMC40 (kg/lb)	145 / 319,7
Dry weight with Sail Drive (kg/lb)	178 / 393
<b>Connections diameter</b>	
Exhaust (mm/in)	50 / 2
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	25 / 1

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



# N3.30 engine

21.3 kW (29 hp)

## Standard equipment

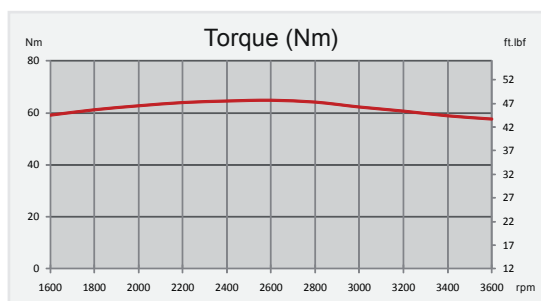
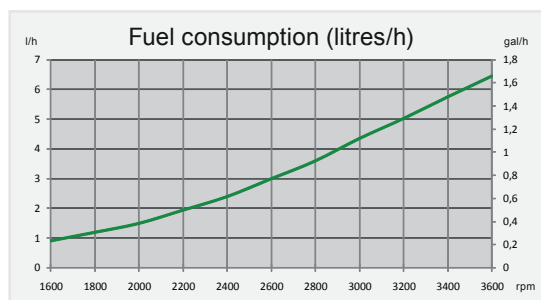
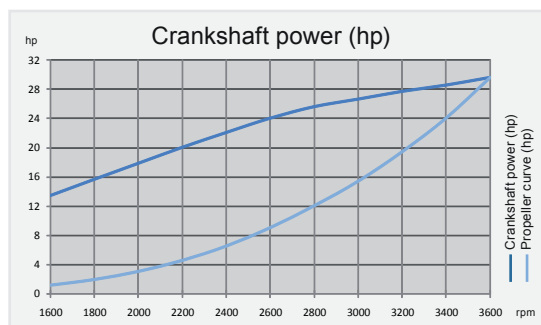
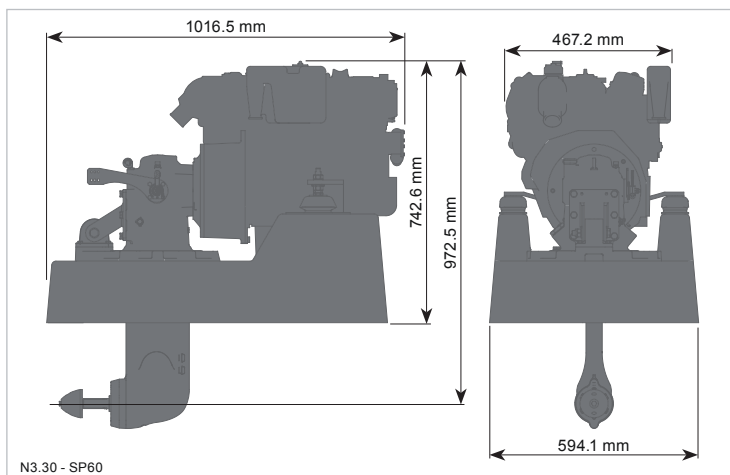
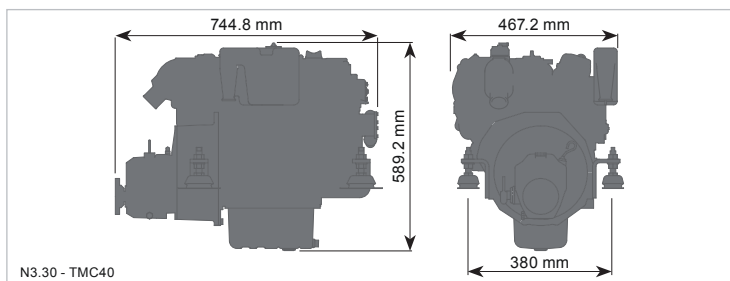
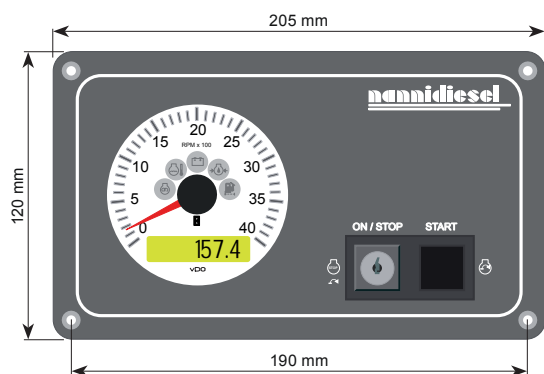
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Additional alternators
- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## A4 panel

- Tachometer and hour meter / Voltmeter
- Ignition key / Start button
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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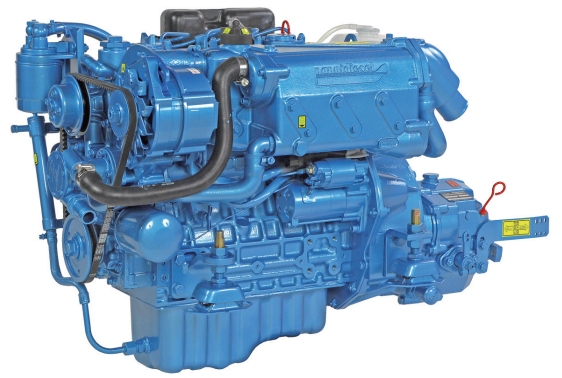
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# N4.38 engine

27.6 kW (37.5 hp) at 3000 rpm

## Kubota engine base

This Nanni Diesel 4 cylinder marine engine which incorporates the latest Kubota innovations, is particularly well suited for displacement vessels and sailing yachts.

Nanni Diesel has forged a strong partnership with Kubota. Kubota engines are known for their robust design and ensure great reliability and excellent longevity.

## Environmental - Tri Vortex Combustion System (E-TVCS)

The N4.38 is equipped with the E-TVCS combustion and injection system which considerably reduces particulate emission and smoke while dramatically improving fuel efficiency.

This engine is easy to maintain due to timing gears rather than belt and easy access to the principal parts.

For these reasons the N4.38 has become the choice of many boat builders who integrate this engine into their series production race and cruising yachts.

## Comfort

A special coating of the pistons with molybdenum lowers friction and reduces engine vibrations resulting in supplementary comfort concerning the sound levels.

Optional equipment such as different instrument panels, engine wiring, bipolar wiring etc. makes it suitable for numerous types of boats, no matter if they are made out of wood, fibreglass, aluminium or steel.

## Light and reliable

Its power to weight ratio and its reliability have convinced the skippers participating in the gruelling non-stop around the world "Vendée Globe" race. You do not have to sail around the world yourself to judge. The N4.38 will work discretely and will afford you the benefit of navigating in all serenity while you are out on the open sea.

## Protecting the environment

The N4.38 complies with the most stringent emission regulations in the world: EU-RCD, US-EPA and BSO.

## Main characteristics

- Kubota base engine
- Optimized cooling system
- E-TVCS combustion system
- Low rpm
- Light weight

## Available transmissions

- TMC60 (mechanical)
- TTMC35A (mechanical) angle 7°
- TTMC35P (mechanical)
- ZF12M (mechanical)
- ZF25A (hydraulic) angle 8°
- ZF12 (hydraulic)
- TM345H (hydraulic)

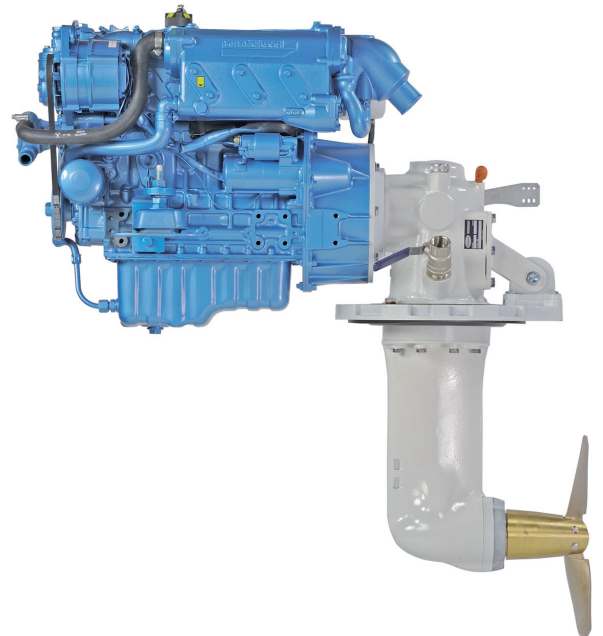
## Applications

- Sailing boat
- Displacement hulls

## Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	27,6 / 37,5
Rated rpm (rpm)*	3000
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	1498 / 91.41
Number of cylinders	4 in line
Bore and stroke (mm/in)	78 x 78.4 / 3.07 x 3.08
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	A4
Transmission	Mechanical or hydraulic gearbox Sail Drive SP60 ratio. 2.15:1
Engine Max Install. Angle	15° (dynamic)
Certifications	EPA, EU-RCD, BSO, SAV, SOLAS
Dry weight with TTMC35A (kg/lb)	152 / 335
Dry weight with Sail Drive (kg/lb)	185 / 407
<b>Connections diameter</b>	
Exhaust (mm/in)	50 / 2
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	25 / 1

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



# N4.38 engine

27.6 kW (37.5 hp)

## Standard equipment

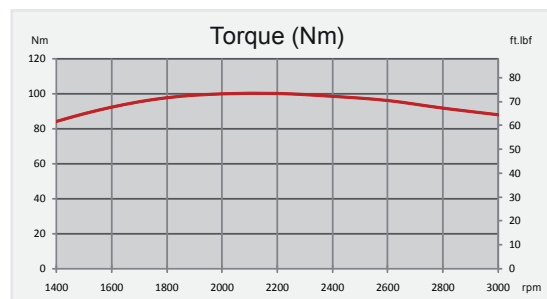
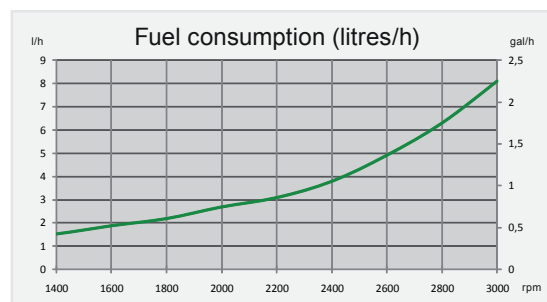
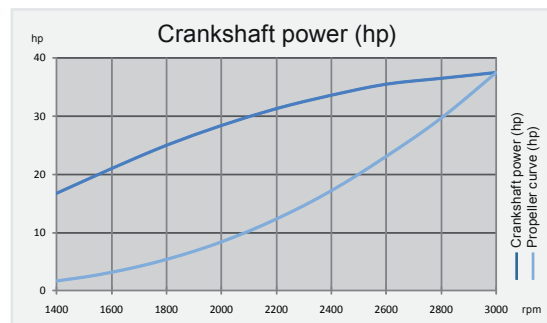
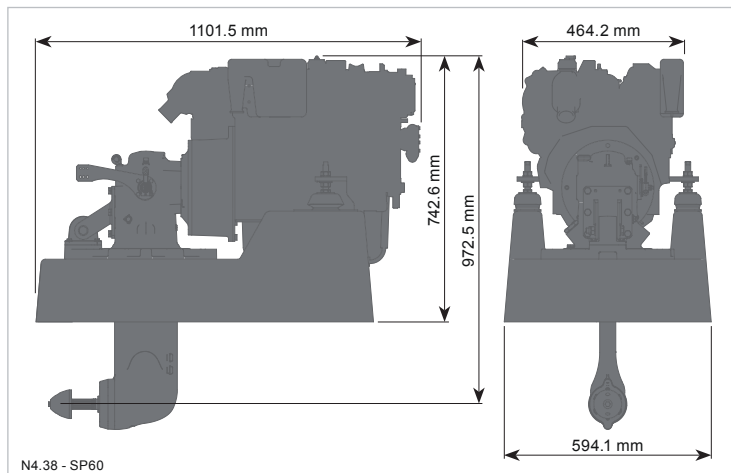
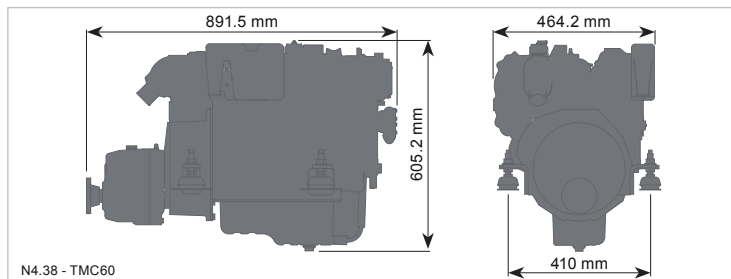
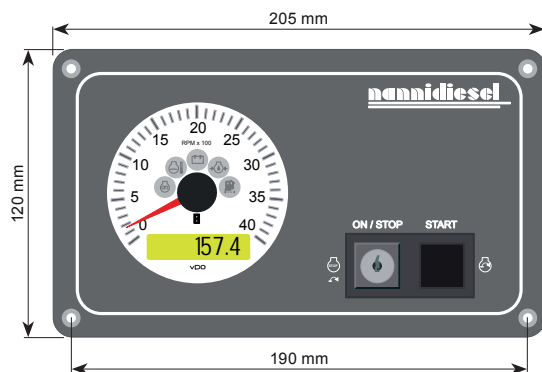
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Additional alternators
- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## A4 panel

- Tachometer and hour meter / Voltmeter
- Ignition key / Start button
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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# N4.40 engine

29.4 kW (40 hp) at 2800 rpm

## Kubota engine base

This Nanni Diesel 4 cylinder marine engine which incorporates the latest Kubota innovations, is particularly well suited for displacement vessels and sailing yachts.

## Robust

Nanni Diesel has forged a strong partnership with Kubota. Kubota engines are known for their robust design and ensure great reliability and excellent longevity.

Experience and know-how of the Nanni Diesel engineers resulted in the latest marinization developments which benefit the N4.40. The heat exchanger ensures an ideal temperature management of the engine even during heavy duty operation.

Reliability and low maintenance cost are warranted by the timing gear and other solid designs of the robust Kubota engine base.

## Environmental-Tri Vortex Combustion System (E-TVCS)

The N4.40 is equipped with the E-TVCS combustion and injection system which considerably reduces particulate emission and smoke while dramatically improving fuel efficiency.

## Comfort of use

Its low rated speed of 2800 rpm coupled with powerful cylinder capacity gives the N4.40 ample power for all navigation conditions.

## Protecting the environment

The N4.50 complies with the most stringent emission regulations in the world: EU-RCD, US-EPA and BSO.

## Main characteristics

- Kubota base engine
- Optimized cooling system
- E-TVCS combustion system
- Low rpm
- Big displacement

## Available transmissions

- TMC60 (mechanical)
- TMC260 (mechanical)
- TTMC35A (mechanical) 7° angle
- TTMC35P (mechanical)
- ZF25 (hydraulic)
- TM345H (hydraulic)
- TM345A (hydraulic) 8° angle

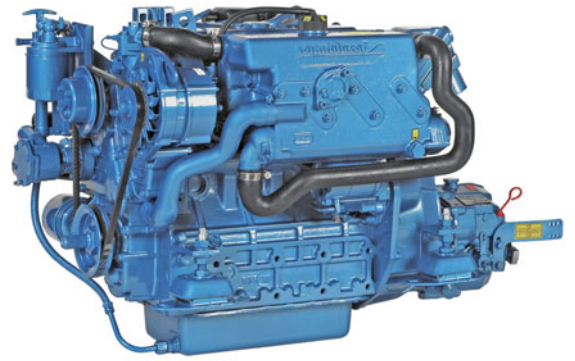
## Applications

- Sailing boat
- Displacement hulls

## Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	29,4 / 40
Rated rpm (rpm)*	2800
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	1999 / 121.99
Number of cylinders	4 in line
Bore and stroke (mm/in)	83 x 92.4 / 3.26 x 3.63
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	A4
Transmission	Mechanical or hydraulic gearbox Sail Drive SP60 ratio. 2.15:1
Engine Max Install. Angle	15° (dynamic)
Certifications	EPA, EU-RCD
Dry weight with TMC60 (kg/lb)	228 / 503
Dry weight with Sail Drive (kg/lb)	250 / 551
<b>Connections diameter</b>	
Exhaust (mm/in)	60 / 2.36
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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



# N4.40 engine

29.4 kW (40 hp)

## Standard equipment

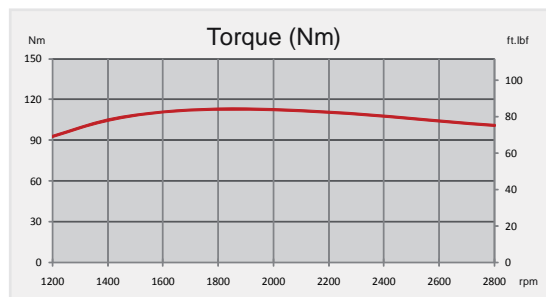
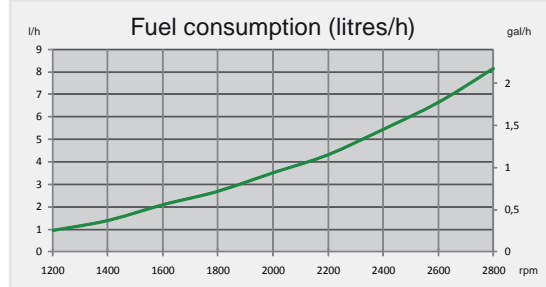
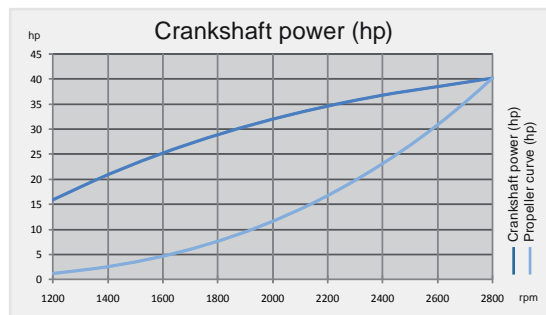
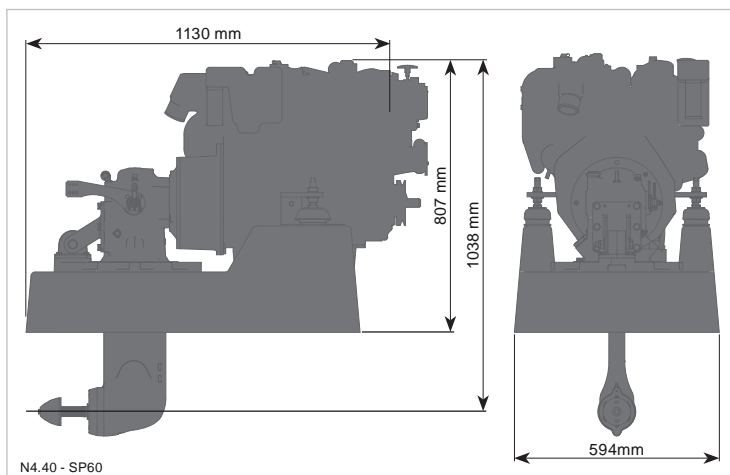
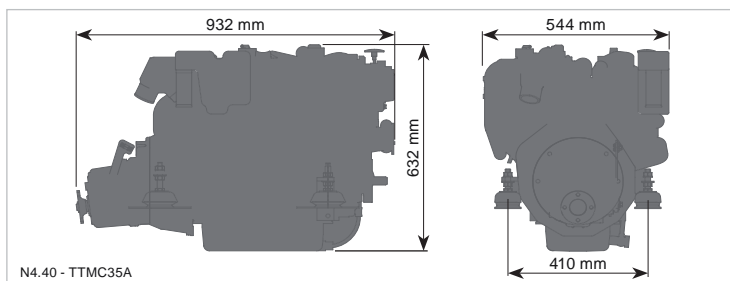
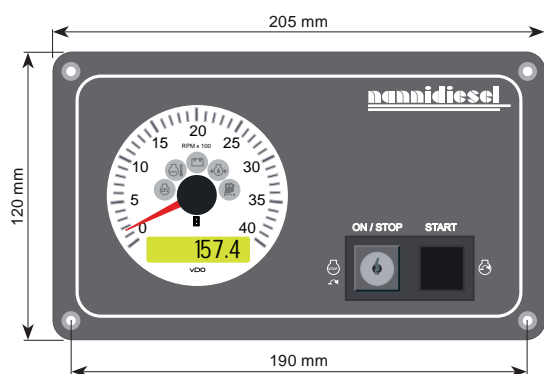
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- B4 panel
- Thermostat

## Optional equipment

- Additional alternators
- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## A4 panel

- Tachometer and hour meter / Voltmeter
- Ignition key / Start button
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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# N4.50 engine

36.8 kW (50 hp) at 2800 rpm

## Kubota engine base

This Nanni Diesel 4 cylinder marine engine which incorporates the latest Kubota innovations, is particularly well suited for displacement vessels and sailing yachts.

## Robust

Nanni Diesel has forged a strong partnership with Kubota. Kubota engines are known for their robust design and ensure great reliability and excellent longevity.

Experience and know-how of the Nanni Diesel engineers resulted in the latest marinization developments which benefit the N4.50. The heat exchanger ensures an ideal temperature management of the engine even during heavy duty operation. Reliability and low maintenance cost are warranted by the timing gear and other solid designs of the robust Kubota engine base.

## E-TVCS Combustion System

The N4.50 is equipped with the E-TVCS combustion and injection system which

considerably reduces particulate emission and smoke while dramatically improving fuel efficiency.

## Comfort of use

Its low rated speed of 2800 rpm coupled with powerful cylinder capacity gives the N4.50 ample power for all navigation conditions.

A special coating of the pistons with molybdenum lowers friction and reduces engine vibrations resulting in supplementary comfort concerning the sound levels.

The large choice of straight or angle down gearboxes, either mechanical or hydraulic, as well as a Sail Drive transmission allows you to fully utilize the significant torque of this engine by perfectly adapting it to your specific vessel.

## Protecting the environment

The N4.50 complies with the most stringent emission regulations in the world: EU-RCD, US-EPA and BSO.

## Main characteristics

- Kubota base engine
- Optimized cooling system
- E-TVCS combustion system
- Low rpm
- Big displacement

## Available transmissions

- TMC60 (mechanical)
- TMC260 (mechanical)
- TTMC35A (mechanical) 7° angle
- TTMC35P (mechanical)
- ZF15MIV (mechanical) 15° angle
- ZF25M (mechanical)
- ZF25 (hydraulic)
- ZF25A (hydraulic) 8° angle
- TM345H (hydraulic)
- TM345A (hydraulic) 8° angle

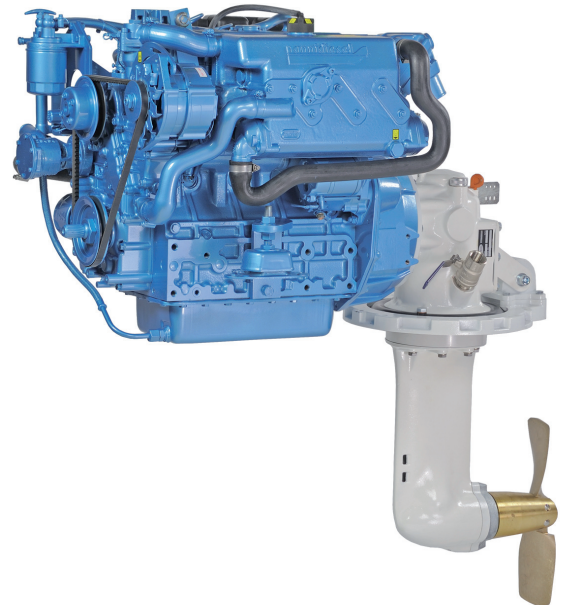
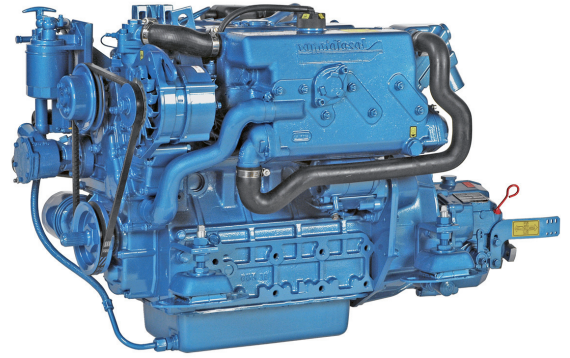
## Applications

- Sailing boat
- Displacement hulls
- Semi-planning hulls

## Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	36.8 / 50
Rated rpm (rpm)*	2800
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	2197 / 137.07
Number of cylinders	4 in line
Bore and stroke (mm/in)	87 x 92.4 / 3.42 x 3.63
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Naturally aspirated
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	C4
Transmission	Mechanical or hydraulic gearbox Sail Drive SP60 ratio. 2.15:1
Engine Max Install. Angle	15° (dynamic)
Certifications	EPA, EU-RCD, BSO, SAV, SOLAS
Dry weight with TMC60 (kg/lb)	235 / 518
Dry weight with Sail Drive (kg/lb)	258 / 569
<b>Connections diameter</b>	
Exhaust (mm/in)	60 / 2.36
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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





# N4.50 engine

36.8 kW (50 hp)

## Standard equipment

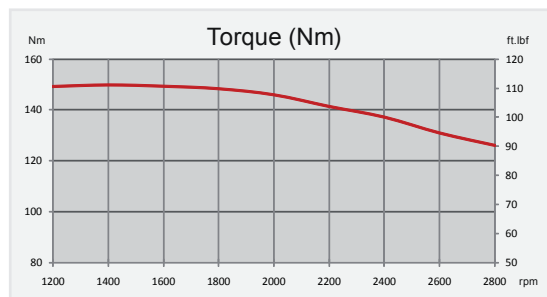
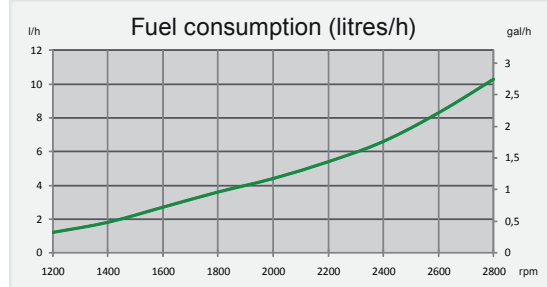
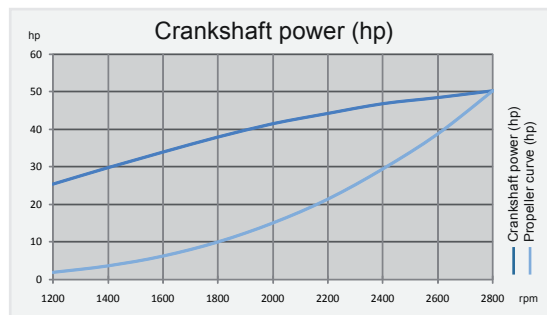
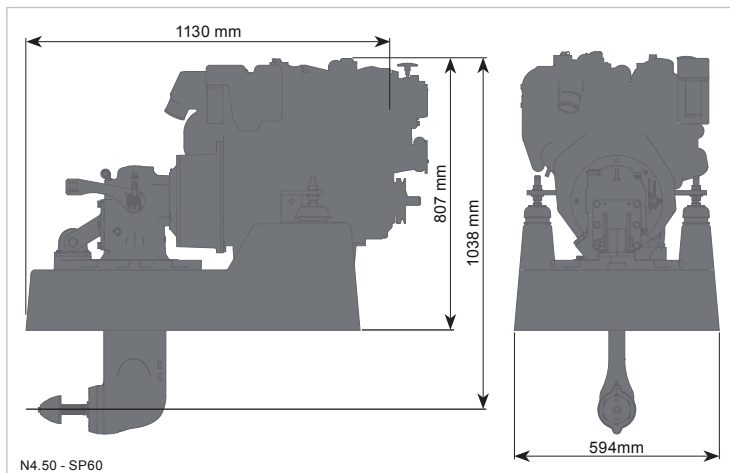
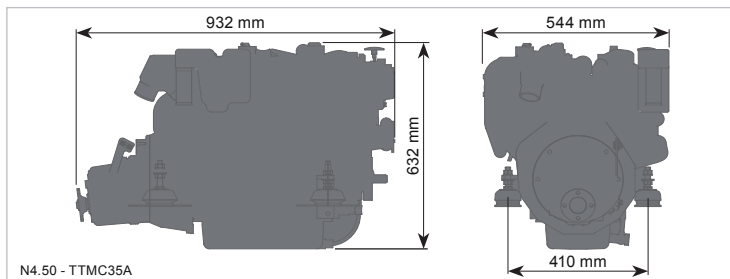
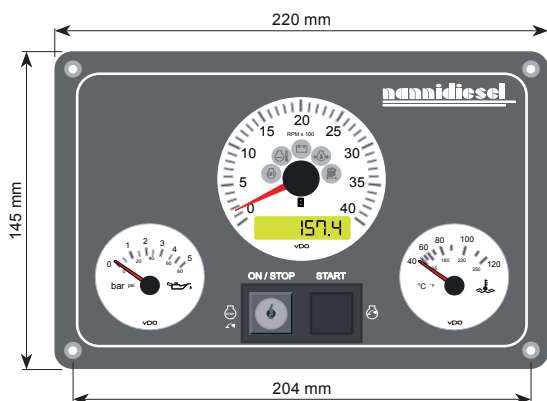
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- C4 panel
- Thermostat

## Optional equipment

- Additional alternators
- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## C4 panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Oil pressure indicator
- Coolant temperature indicator
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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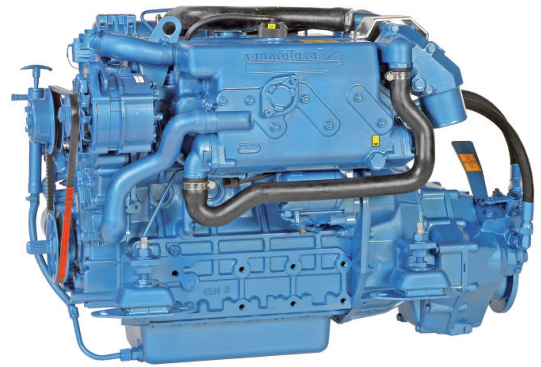
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# N4.60 engine

44.2 kW (60 hp) at 2800 rpm

## Kubota engine base

Originating from the latest generation diesel engines developed by Kubota, the N4.60 marine engine is regarded as an ideal solution for sailing yachts as well as sport fishing boats.

It benefits from the experience of the Nanni Diesel engineering team in terms of marinization as well as the robustness of the Kubota industrial engine base.

## Performance

Powerful, robust and comfortable, the N4.60 perfectly captures these essential qualities in its engine category.

Its low rpm and significant torque allows you to reach cruising speeds at lower rpm levels, considerably improving the sound comfort and onboard vibrations.

These qualities allow it if necessary to drive a propeller with a sizable diameter, which is more efficient in turbulent seas and more practical while manoeuvring in port.

## Saving space and adaptable

The dimensions and the weight of a N4.60 have been optimised to obtain a good power to weight ratio.

This very compact engine eases installation. The design of the engine mounts, as well as a large choice of gearboxes simplifies repowering of your boat.

## Protecting the environment

The N4.60 complies with the most stringent emission regulations in the world: EU-RCD, US-EPA and BSO

Its SOLAS certification reflects quality and reliability.

## Main characteristics

- Kubota base engine
- High torque
- E-TVCS combustion system
- Low rpm

## Available transmissions

- ZF25M (mechanical)
- ZF25MA (mechanical) 8°angle
- ZF25 (hydraulic)
- ZF25A (hydraulic) 8°angle
- TMC260 (mechanical)
- TM345H (hydraulic)
- TM345A (hydraulic) 8°angle

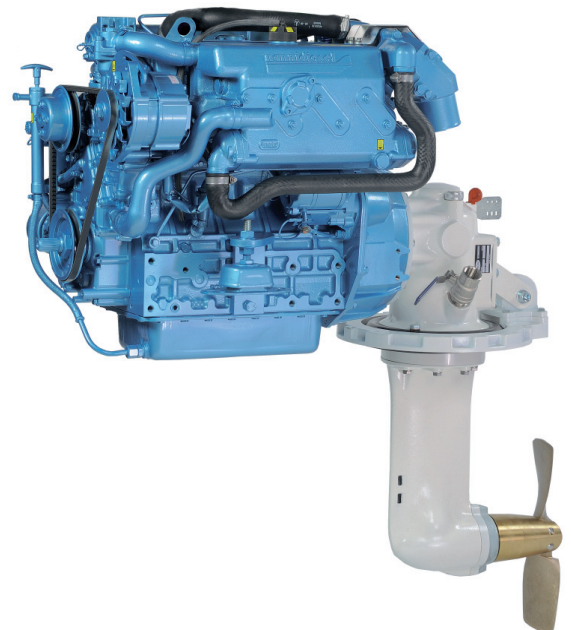
## Applications

- Sailing boat
- Displacement hulls
- Semi-planning hulls

## Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	44.2 / 60
Rated rpm (rpm)*	2800
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	1999 / 121.99
Number of cylinders	4 in line
Bore and stroke (mm/in)	83 x 92.4 / 3.26 x 3.63
Compression ratio	23:1
Combustion system	Indirect (E-TVCS)
Intake	Turbo
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	C4
Transmission	Mechanical or hydraulic gearbox Sail Drive SP60 ratio. 2.15:1
Engine Max Install. Angle	15° (dynamic)
Certifications	EPA, EU-RCD, BSO, SAV, SOLAS
Dry weight with TM345A (kg/lb)	248 / 546.75
Dry weight with Sail Drive (kg/lb)	270 / 595
<b>Connections diameter</b>	
Exhaust (mm/in)	76 / 3.07
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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



# N4.60 engine

44.2 kW (60 hp)

## Standard equipment

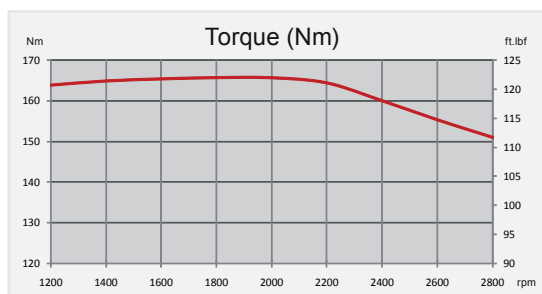
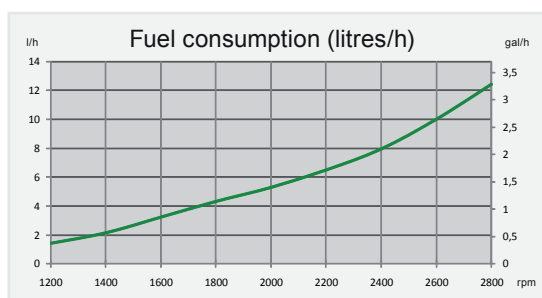
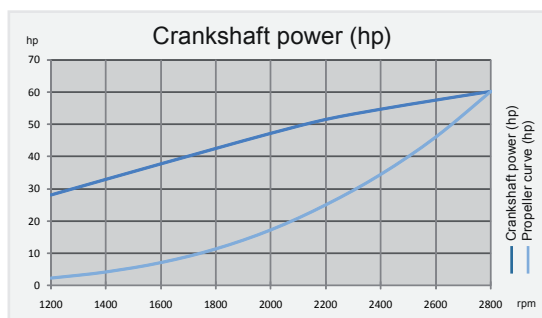
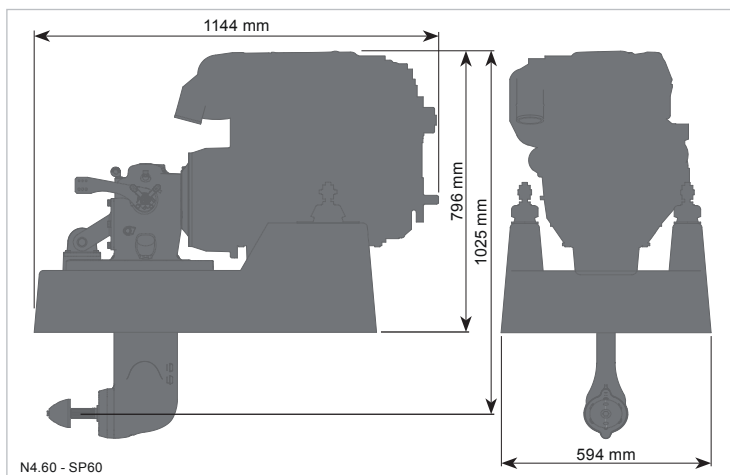
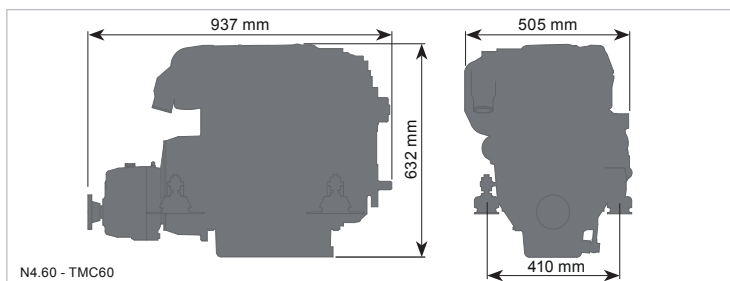
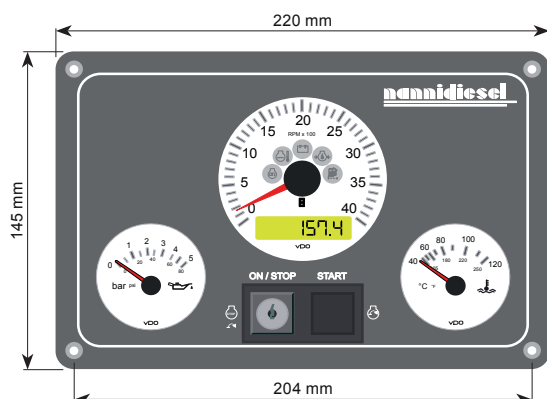
- Polyester frame (for Sail Drive version)
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox or Sail Drive
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- C4 panel
- Thermostat

## Optional equipment

- Additional alternators
- Keel Cooling
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## C4 panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Oil pressure indicator
- Coolant temperature indicator
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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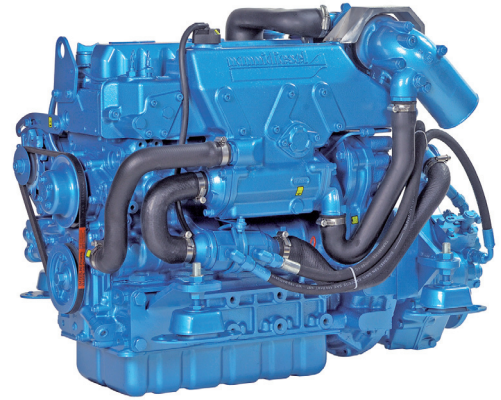
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## N4.85 engine

62.5 kW (85 hp) at 2800 rpm

### Kubota engine base

Designed for sailing yachts as well as sport fishing boats, the N4.85 is a 4 cylinder diesel engine with direct fuel injection. It benefits from the experience of the Nanni Diesel engineering team in terms of marinization and from the latest technological developments by Kubota for their industrial engine bases.

### E-CDIS injection system

The E-CDIS direct injection system equipping the N4.85 is characterized by an injector positioning in the centre of the 4 valves per cylinder. This technology results in considerable reduction of particulate emission. Its low rated rpm of 2800 rpm associated with the direct injection offers you ease of use and important fuel efficiency.

### Compact and comfortable

The reduced dimensions of the N4.85 engine allows it to be installed in the smallest engine compartments.

The large choice of straight or angle down gearboxes, either mechanical or hydraulic, as well as a Sail Drive transmission allows you to fully utilize the significant torque of this engine by perfectly adapting it to your specific vessel.

As a result of its 3 litres cylinder capacity and the characteristics of its turbocharger, the N4.85 develops high torque at low rpm. The take-off is faster and cruising speeds are reached at lower rpm levels. Its two balancing shafts driven by a gearwheel distribution bring robustness and reliability to the engine, while easing its maintenance.

### Protecting the environment

The N4.85 complies with the most stringent emission regulations in the world : EU-RCD, US-EPA and BSO.

### Main characteristics

- E-CDIS injection system
- 2 balances shafts
- Big displacement
- High torque
- Low rpm

### Available transmissions

- ZF25A26 (hydraulic) 8°angle
- TTMC5A (mechanical) 7°angle
- TMC260 (mechanical)
- TM345A (hydraulic) 8°angle

### Applications

- Sailing boat
- Displacement hulls
- Semi-planning hulls
- Planning hulls

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	62.5 / 85
Rated rpm (rpm)*	2800
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	3053 / 186.31
Number of cylinders	4 in line
Bore and stroke (mm/in)	94 x 110 / 3.7 x 4.33
Compression ratio	20:1
Combustion system	Direct (E-CDIS)
Intake	Turbo
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	C4
Transmission	Mechanical or hydraulic gearbox
Engine Max Install. Angle	7° (static)
Certifications	EPA, EU-RCD
Dry weight with TM345A (kg/lb)	350 / 772
<b>Connections diameter</b>	
Exhaust (mm/in)	90 / 3.54
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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

# N4.85 engine

62.5 kW (85 hp)

## Standard equipment

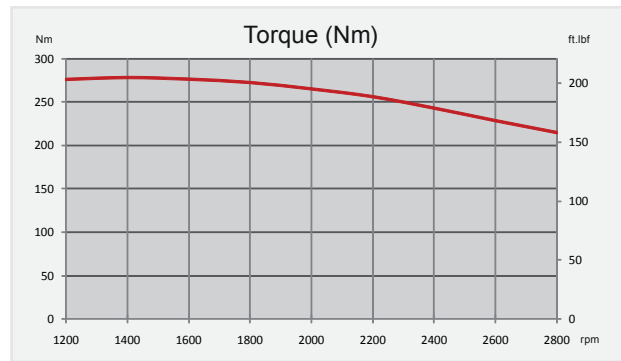
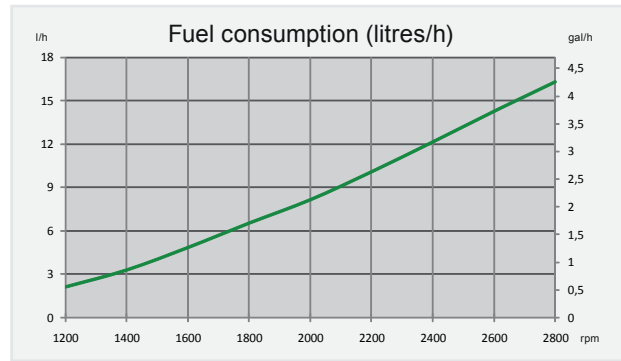
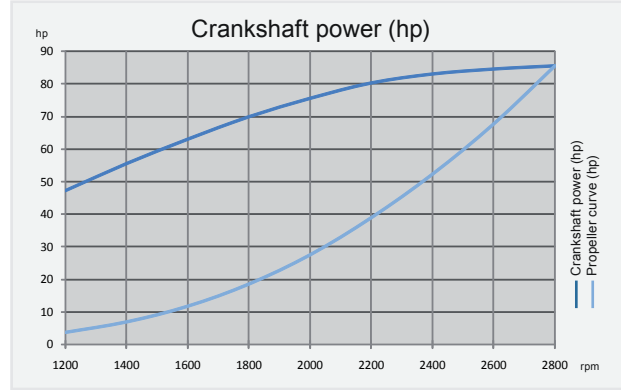
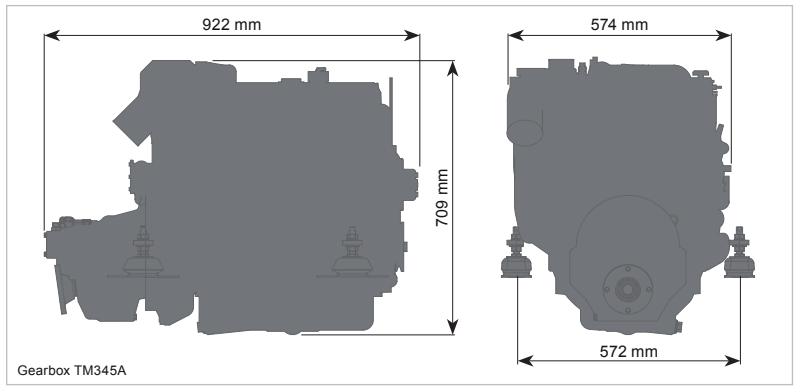
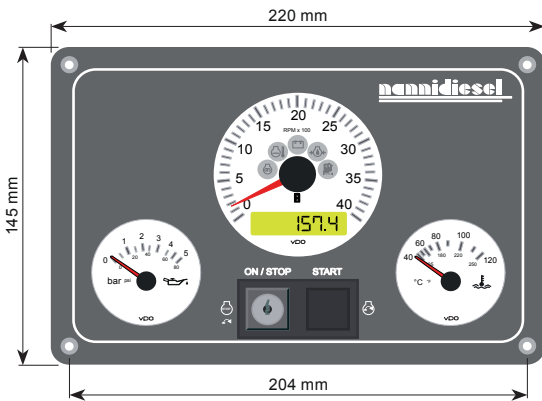
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Additional alternators
- Trolling valve
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## C4 panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Oil pressure indicator
- Coolant temperature indicator
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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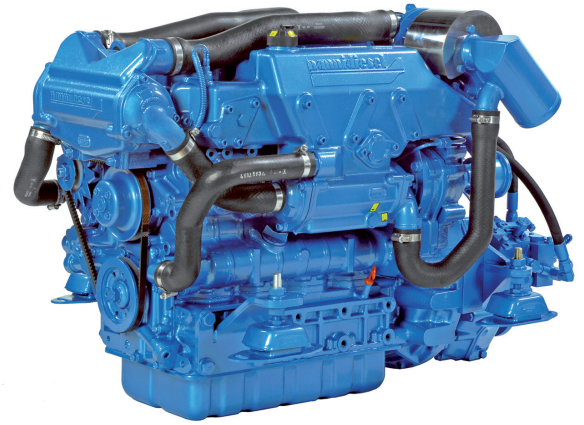
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## N4.100 engine

73.6 kW (100 hp) at 2800 rpm

### Kubota engine base

Designed for sailing yachts as well as sport fishing boats, the N4.100 is a 4 cylinder diesel engine with direct fuel injection. It benefits from the experience of the Nanni Diesel engineering team in terms of marinization and from the latest technological developments by Kubota for their industrial engine bases.

### E-CDIS injection system

The E-CDIS direct injection system equipping the N4.100 is characterized by a injector positioning in the centre of the 4 valves per cylinder. This technology results in considerable reduction of particulate emission. Its low rated rpm of 2800 rpm associated with the direct injection offers you ease of use and important fuel efficiency.

### Compact and comfortable

The reduced dimensions of the N4.100 engine allows it to be installed in the smallest engine compartments.

The large choice of straight or angle down gearboxes, either mechanical or hydraulic, as well as a Sail Drive transmission allows you to fully utilize the significant torque of this engine by perfectly adapting it to your specific vessel.

As a result of its 3 litres cylinder capacity and the characteristics of its turbocharger, the N4.100 develops high torque at low rpm. The take-off is also faster and cruising speeds are reached at lower rpm levels. Its two balancing shafts driven by a gearwheel distribution bring robustness and reliability to the engine, while easing its maintenance.

### Protecting the environment

The N4.100 complies with the most stringent emission regulations in the world : EU-RCD, US-EPA, BSO.

### Main characteristics

- Optimized cooling system
- E-CDIS injection system
- Turbo compressor & Intercooler
- 2 balancing shafts
- Big displacement

### Available transmissions

- ZF25M (mechanical)
- ZF25 (hydraulic)
- ZF45A (hydraulic)
- ZF45-1 (hydraulic)
- ZF25A26 (hydraulic) 8° angle
- TTMC5A (mechanical) 7° angle
- TTM40A (hydraulic) 8° angle
- TMC260 (mechanical)
- TM345 (hydraulic)
- TM345A (hydraulic) 8° angle

### Applications

- Sailing boat
- Displacement hulls
- Semi-planning hulls
- Planning hulls

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	73.6 / 100
Rated rpm (rpm)*	2800
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	3053 / 186.31
Number of cylinders	4 in line
Bore and stroke (mm/in)	94 x 110 / 3.7 x 4.33
Compression ratio	20:1
Combustion system	Direct (E-CDIS)
Intake	Turbo compressor & intercooler
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	C4
Transmission	Mechanical or hydraulic gearbox
Engine Max Install. Angle	7° (static)
Certifications	EPA level, EU-RCD
Dry weight with TM345A (kg/lb)	360 / 793.66
<b>Connections diameter</b>	
Exhaust (mm/in)	90 / 3.54
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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

# N4.100 engine

73.6 kW (100 hp)

## Standard equipment

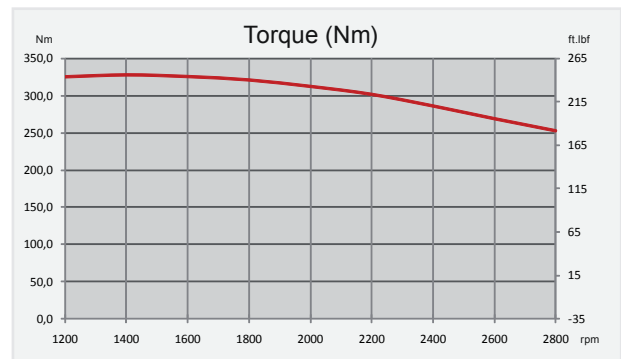
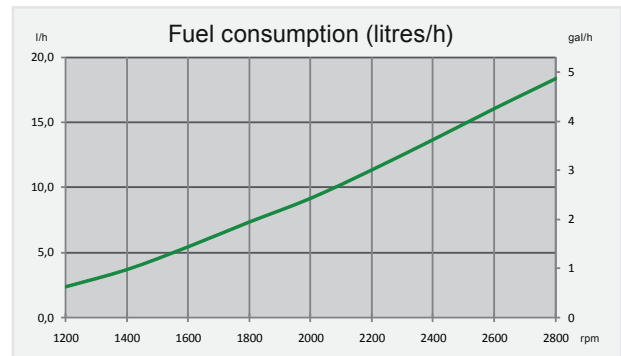
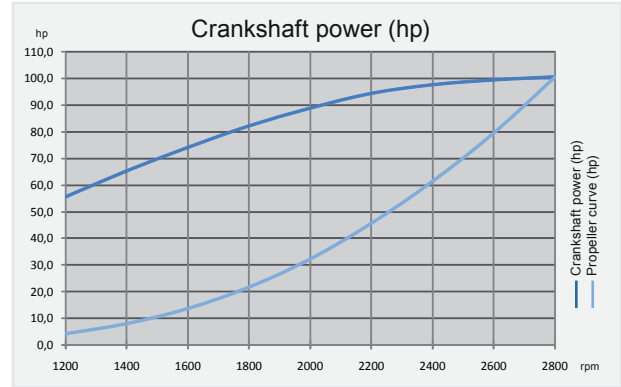
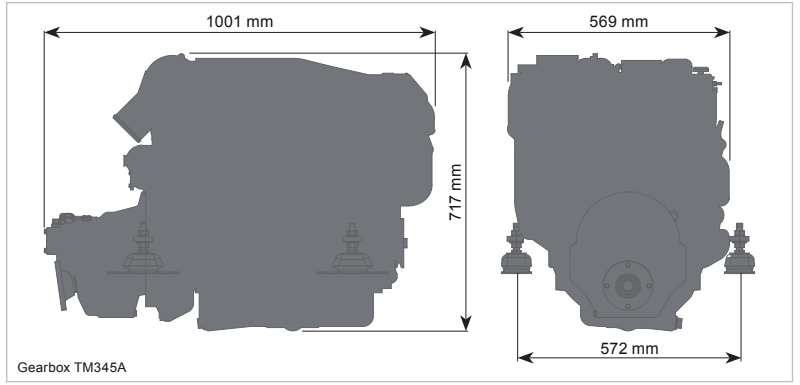
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump)
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Additional alternators
- Trolling valve
- Two pole electrical system
- PTO Pulley
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## C4 panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Oil pressure indicator
- Coolant temperature indicator
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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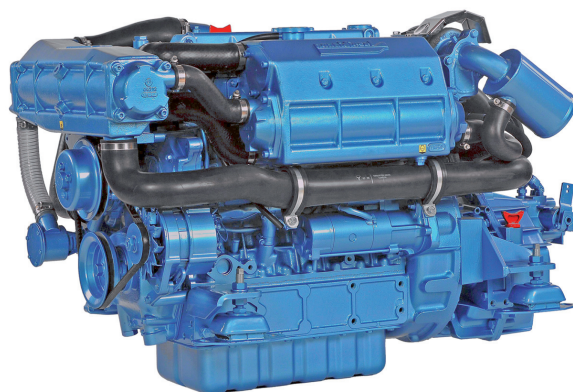
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## N4.115 engine

84.6 kW (115 hp) at 2600 rpm

### Kubota engine base

Originating from the latest generation diesel engines developed by Kubota, the N4.115 marine engine is regarded as an ideal solution for sailing yachts as well as sport fishing boats.

### Ease of use

Given its 3.8 litres cylinder capacity and its new direct injection system (E-CDIS) with its 4 valves per cylinder, the ease of use of the N4.115 will make it an ideal engine for your boat.

The maximum torque is already developed at low rpm allowing you to cruise more quietly with less fuel consumption. Its two balancing shafts as well as a special piston coating further reduce the sound level and vibrations emitted by the engine.

### Powerful and compact

Used on heavy sailing boats, the N4.115 proves its robustness and its reliability. Its small dimensions allow it to be fitted into compartments normally designed for engines with a lot less cylinder capacity. This engine will be your best friend during fishing trips or your offshore navigations.

### Protecting the environment

The N4.115 complies with the most stringent emission regulations in the world : EU-RCD, US-EPA, BSO

The fact that the most prestigious shipyards have put their trust into this engine speaks for its quality and reliability.

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	84.6 / 115
Rated rpm (rpm)*	2600
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	3769 / 230
Number of cylinders	4 in line
Bore and stroke (mm/in)	100 x 120 / 3.93 x 4.72
Compression ratio	21.8:1
Combustion system	Direct (E-CDIS)
Intake	Turbo compressor & intercooler
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A or 24V / 55A
Instrument panel	C4
Transmission	Mechanical or hydraulic transmission
Engine Max Install. Angle	7° (static)
Certifications	EPA level, BSO, EU-RCD
Dry weight with TM345A (kg/lb)	378 / 833.35
<b>Connections diameter</b>	
Exhaust (mm/in)	104 / 4.09
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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

### Main characteristics

- Big displacement
- E-CDIS injection system
- Optimized cooling system
- Turbo compressor & Intercooler

### Available transmissions

- ZF25 (hydraulic)
- ZF25A26 (hydraulic) 8° angle
- ZF45A (hydraulic) 8° angle
- ZF45-1 (hydraulic)
- TTMC5A (mechanical) 7° angle
- TTM40A (hydraulic) 8° angle
- TM345 (hydraulic)
- TM345A (hydraulic) 8° angle

### Applications

- Sailing boat
- Displacement hulls
- Semi-planning hulls
- Planning hulls



# N4.115 engine

84.6 kW (115 hp)

## Standard equipment

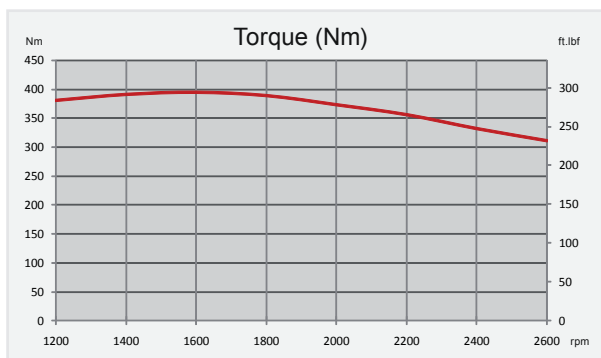
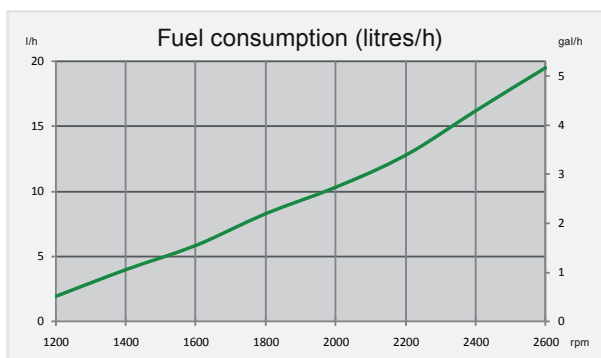
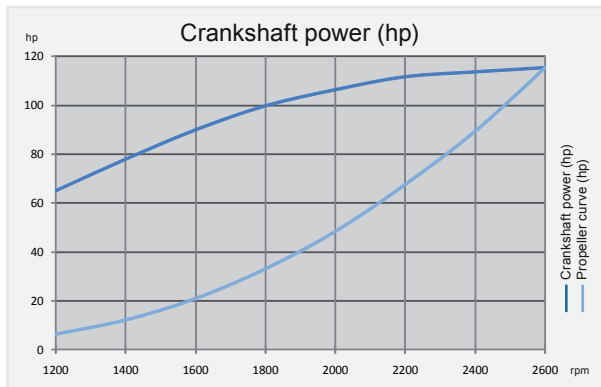
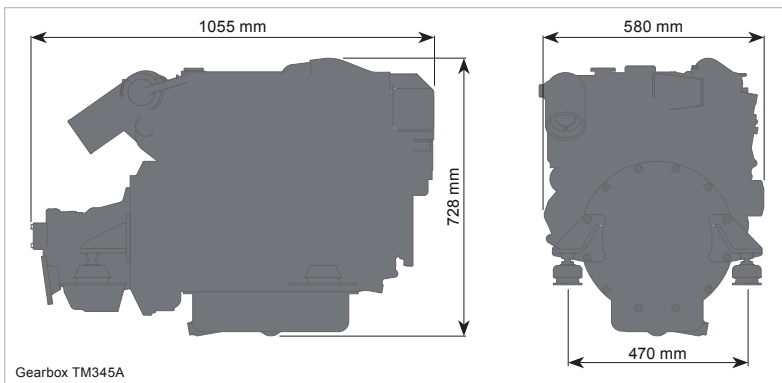
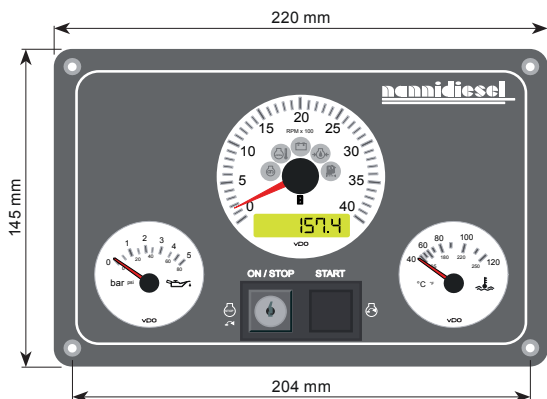
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Additional alternators
- Trolling valve
- Two pole electrical system
- Electrical system 24V
- PTO Pulley
- Keel Cooling
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## C4 panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Oil pressure indicator
- Coolant temperature indicator
- Battery charge warning light
- Engine oil pressure warning light
- Water in fuel filter warning light
- Coolant temperature warning light
- Preheating warning light



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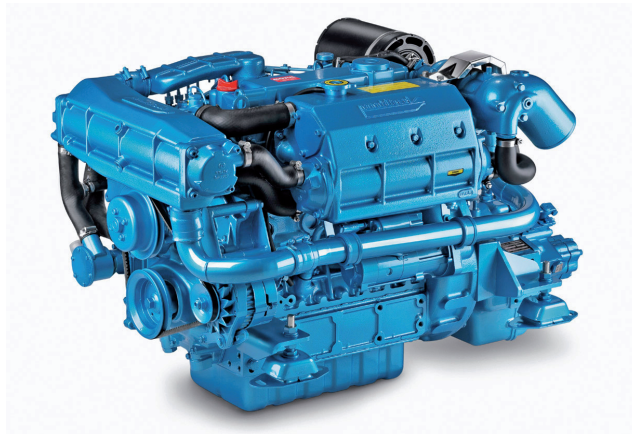
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## 4.340TDI engine

95.7 kW (130 hp) at 2600 rpm

### Kubota engine base

Nanni Diesel has forged a strong partnership with Kubota. Kubota engines are known for their robust design, great reliability and excellent longevity. The industrial engine base is proven in the most difficult conditions of usage.

The fact that the most prestigious shipyards have put their trust into this engine also speaks for its quality.

### Designed for fishing boat

Given its 3.3 litres cylinder capacity with its 4 valves per cylinder, the ease of use of the 4.340TDI will make it an ideal engine for your boat.

It's low rpm speed allows to obtain its maximum torque at low rpm allowing you to cruise more quietly with less fuel consumption.

### Ease of use

The two balancing shafts of the 4.340TDI are driven by a gearwheel distribution that brings robustness and reliability to the engine, easing its maintenance while reducing the sound level and vibrations emitted by the engine.

Its small dimensions allow it to be fitted into compartments normally designed for engines with a lot less cylinder capacity. This engine will be your best friend during fishing trips or your offshore navigations.

### Protecting the environment

The 4.340TDI complies with the most stringent emission regulations in the world : EU-RCD, US-EPA, BSO and SAV.

### Technical specifications

Engine base	Kubota
Rated power (kW/hp)*	95.7 / 130
Rated rpm (rpm)*	2600
Displacement (cm <sup>3</sup> /in <sup>3</sup> )	3319 / 202.54
Number of cylinders	4 in line
Bore and stroke (mm/in)	87 x 110 (3.42 x 4.33)
Compression ratio	21.8:1
Combustion system	Indirect (E-TVCS)
Intake	Turbo compressor & intercooler
Cooling	Closed cooling with heat exchanger
El. equipment / Alternator	12V / 100A
Instrument panel	C4
Transmission	Mechanical or hydraulic transmission
Engine Max Install. Angle	7° (dynamic)
Certifications	EPA <sup>level</sup> , BSO, EU-RCD, SAV
Dry weight with TM345A (kg/lb)	370 / 815.71
<b>Connections diameter</b>	
Exhaust (mm/in)	104 / 4.09
Fuel (mm/in)	8 / 0.31
Sea Water (mm/in)	32 / 1.26

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

### Main characteristics

- E-TVCS injection system
- Turbo compressor & Intercooler
- Big displacement
- Low rpm

### Available transmissions

- ZF25 (hydraulic)
- ZF25A26 (hydraulic) 8° angle
- ZF45A (hydraulic)
- ZF45-1 (hydraulic)
- TTMC5A (mechanical) 7° angle
- TTM40A (hydraulic) 8° angle
- TM345 (hydraulic)
- TM345A (hydraulic) 8° angle

### Applications

- Semi-planning hulls
- Planning hulls

# 4.340TDI engine

95.7 kW (130 hp)

## Standard equipment

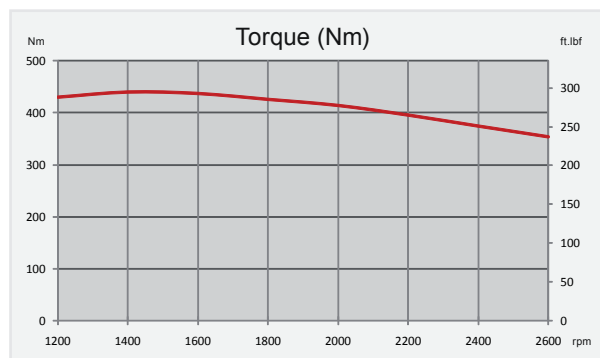
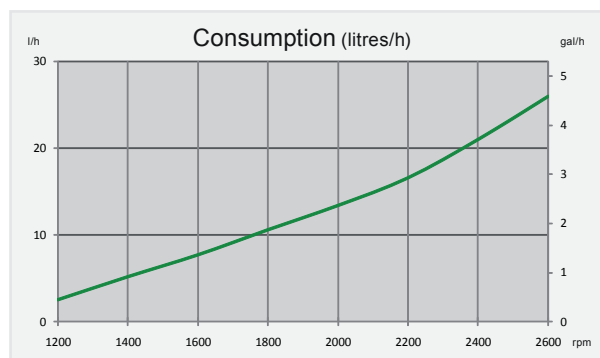
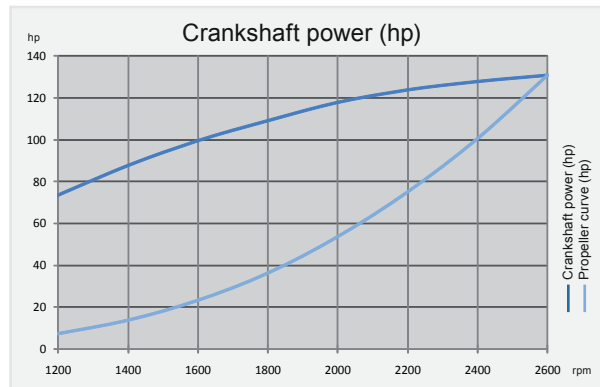
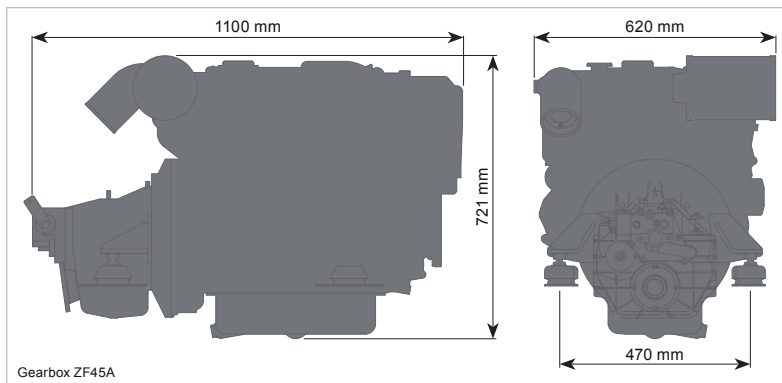
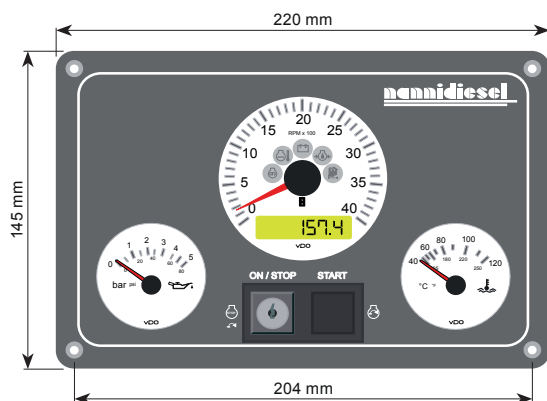
- Warranty certificate
- Fresh Water Cooled Exhaust Manifold
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter
- Oil filter
- Mechanical or hydraulic gearbox
- Owner's manual
- Sea water pump
- Coolant circulating pump
- In line injection pump
- Fuel feed pump
- Oil extraction pump
- Control cables mounting points
- Electrical stop
- Flexible engine mounts
- Electrical system 12V
- Thermostat

## Optional equipment

- Additional alternators
- Trolling valve
- Two pole electrical system
- PTO Pulley
- Keel Cooling
- Remote control
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

## C4 panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Oil pressure indicator
- Coolant temperature indicator
- Battery charge warning light
- Engine oil pressure warning light
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