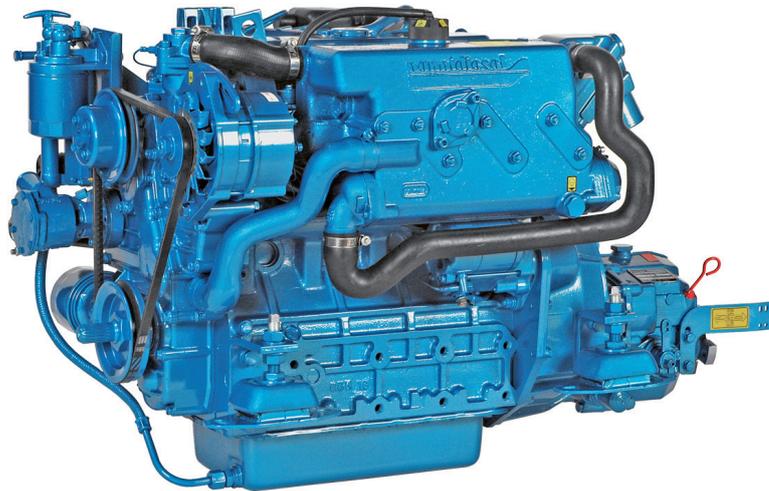


# N4.50

## SPECIFICATIONS



|                     |                                |                         |   |
|---------------------|--------------------------------|-------------------------|---|
| Power at crankshaft | 35.42 kW [47.5 hp]             | Engine base             | Kubota                                      |
| Displacement        | 2.197 l [134 in <sup>3</sup> ] | Fuel system             | Mechanical Indirect injection               |
| Configuration       | 4 cylinders in line            | Air intake              | Natural                                     |
| Operation type      | 4 strokes Diesel               | Cooling                 | Closed cooling with heat exchanger          |
| Bore & Stroke       | 83 x 92.4 mm [3.27 x 3.64 in]  | Max mounting angle      | 15° Front down<br>15° Front up              |
| Compression ratio   | 22 : 1                         | Alternator              | 12 Volt<br>120 Amp                          |
| Rated speed         | 2800 rpm                       | Rating                  | M4  |
| Idling speed        | 840 rpm                        | Emission compliance     | RCD 2013/53/EU<br>EPA marine Tier 3<br>BSO2 |
| Peak torque         | 146 Nm                         | Dry weight with TTMC35A | 229 kg [504 lbs]                            |
| Peak torque speed   | 1800 rpm                       |                         |   |

# N4.50

35.42 kW [47.5 hp] at 2800 rpm

## TECHNICAL DESCRIPTION

### ENGINE BLOCK

- 4 Cylinders in line
- Gear-driven valve train
- Water cooled exhaust manifold

### FUEL SYSTEM

- Mechanical governor
- Cam driven in-line injection pump
- Fuel feed pump with hand primer
- Fuel filter

### LUBRICATION SYSTEM

- Replaceable full-flow oil filter
- Oil dipstick
- 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

- 12 V Electrical system
- 12 V / 120 A alternator
- Electric starter motor
- Electric stop function
- Instrumentation panel, including Start/ Stop, tachometer & alarms
- Extension cable harness with plug-and-play

### AIR INTAKE

- Mounted air cleaner

### OTHER FEATURES

- Flexible engine mounting
- Bracket for control cables

### OPTIONAL EQUIPMENTS & ACCESSORIES

- Keel cooling adaptation
- Complete marine propulsion systems
- Throttle and shift controls
- Additional instrumentation, Flying bridge extension harness
- Polyester frame (Sail Drive version)
- Engine mounting adaptation
- Two pole electrical system
- Water boiler systems
- Stuffing box connections
- Complete fuel systems
- Complete exhaust systems
- SOLAS approved version

## RATINGS

- Up to 3000 annual operating hours
- Load factor up to 40%
- Full power for no more than 1 hour out of each 12 hours of operation. The remaining time must be at, or below cruising speed

## TRANSMISSIONS

### SHAFT LINE

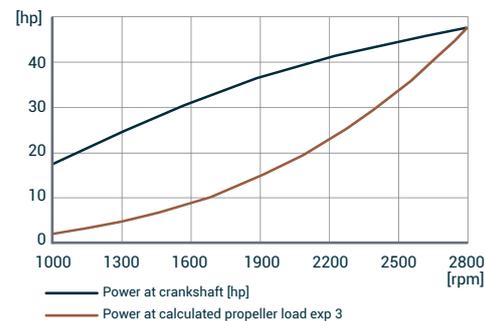
- TTM345A - TM345H
- TMC260
- TMC60
- TTMC35A - TTMC35P
- ZF25 - ZF25M

### SAIL DRIVE

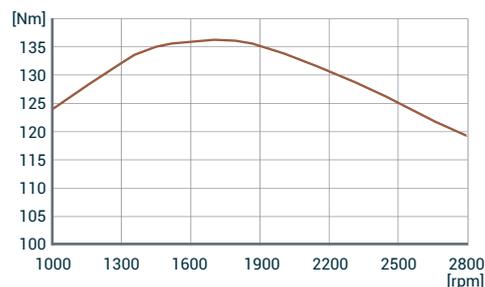
- Sail Drive
- Contact your Nanni representative for more details and availability about transmissions types and models range.

## PERFORMANCE CURVES

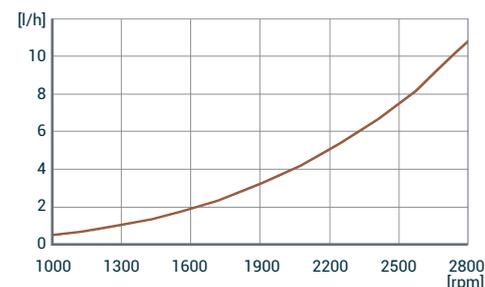
### POWER AT CRANKSHAFT



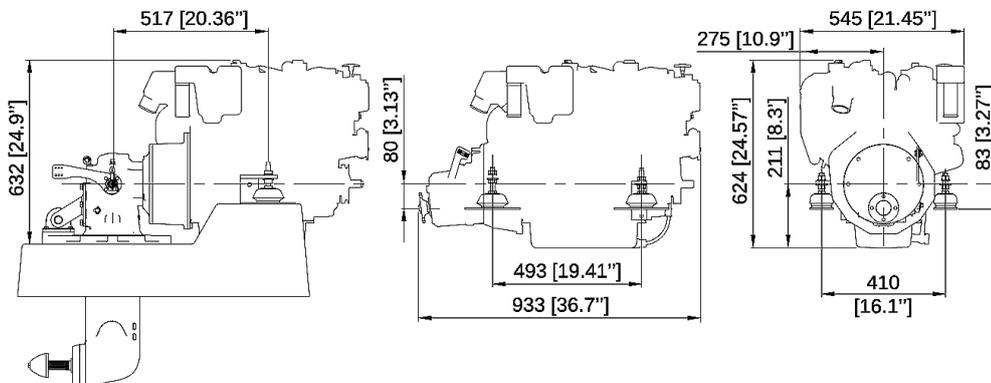
### TORQUE AT CRANKSHAFT



### FUEL CONSUMPTION



## DIMENSIONS WITH TTMC35A



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