



111 NM 50 HP  
TURBODIESEL  
OUTBOARD

DISTRIBUTED BY



# NEANDER DTORQUE

## Setting the benchmark in diesel engineering

Revolutionary engineering refinement and world-first technology unite to produce the exceptional performance, fuel economy, reliability, comfort, safety and cost-saving benefits of the Dtorque Turbo Diesel outboard.

The first serial production diesel outboard with dual crankshaft and the smallest diesel outboard engine with common rail fuel injection, the compact Dtorque is the perfect choice in the mid-power range.

With a remarkable torque output that peaks at 111 Nm at 2,500 rpm, the Dtorque's performance surpasses the leading 70 hp fuel-injected, four-stroke gasoline outboards. It offers outstanding ability to power heavy loads at low RPM and get on plane quickly, with fuel consumption averaging just 4 – 5 liters or 11 liters per hour at full throttle. The 804cm<sup>3</sup> twin-cylinder aluminium powerhead delivers 50 hp at the propeller shaft.

Enhanced safety is a further key benefit of the Dtorque due to the lower flammability of diesel fuel, an essential factor for commercial shipping. Operators will also benefit from cost savings up to 40% with fewer fire safety precautions and requirements.

The Dtorque's best-in-class fuel economy results in lower fuel costs, with lower prices for diesel fuel (partial tax exemption) and fewer refuelling stops, maximized working hours and reduced operating costs.

With an expected life span of more than 10,000 hours, the Dtorque requires minimal maintenance with less stress on the engine and its suspension. Low noise and vibration levels ensure increased on-board comfort, leading to reduced fatigue and higher productivity.





## AT WORK, THE BENEFITS OF THE DTORQUE ARE CLEAR

The only mid-range outboard to combine all the advantages of state-of-the-art diesel technology



### RELIABILITY

*Service life > 10,000 h*  
*< Maintenance effort*  
*> Greater reliability*  
*in operation ≥ Productive working hours*



### POWER

*111 Nm at 2,500 rpm*  
*50 hp*



### FUEL

*ø 4-5 l / ø 11 l full load*  
*= 40% less fuel consumption*  
*Less fuel stops*  
*One type of fuel on board*



### SAFETY

*Low risk of fire through lower flammability of the diesel fuel*  
*Explosion-proof*  
*No need to store fuel on-board*



### COST SAVINGS

*Lower fuel consumption & prices*  
*Maximized working hours = lower cost / operating hours*

## MADE FOR PROFESSIONALS:

Ideal for workboats, safety and rescue boats, fishing boats, oil and gas and offshore vessels, government and port authority boats, passenger boats and superyacht tenders

For important work on the water, the Dtorque brings a range of benefits: one type of fuel on-board, fewer refuelling stops, less wasted time, greater operational reliability, more productive working hours with lower operating costs.

### Safety without compromise: Diesel is a better option for minimizing fire risk

In potentially hazardous environments where fire is a constant risk such as in the oil and gas industry, diesel fuel offers the additional advantage of increased safety as it is less flammable than gasoline.

Diesel is also the sensible propulsion choice for cruise ship and mega-yacht operators running superyacht tenders to carry crew, passengers and goods ashore when docking is not always practical.



# YANMAR

## YANMAR MARINE INTERNATIONAL: THE PERFECT PARTNER FOR WORLDWIDE DISTRIBUTION OF THE DTORQUE

YANMAR offers direct access to its technical expertise in marine diesel engineering and a well-established distribution network for Dtorque, covering over 130 countries around the world with strategically located dealer service centers.

YANMAR is renowned for innovative, cutting-edge diesel engineering.

It fields a full range of inboard engines, from 9 mhp to about 2,000 mhp for commercial and leisure applications, that stand out as class leaders for high power density, fuel efficiency, reliability, smooth and quiet operation, and low emissions.

Since 2000, YANMAR has led the adoption of common rail fuel injection and electronic management to optimize engine efficiency.

It also offers transmissions from gearboxes to sterndrives and saildrives. With proven excellence in the outboard motor sector, YANMAR offered its own range of small diesel outboard engines from 27 hp to 36 hp until 2008.

YANMAR makes a welcome return with distribution of a product with ground-breaking engineering that is perfect for today's market – the Dtorque Turbo Diesel outboard.



# REVOLUTIONARY “SPACEBALL” TECHNOLOGY

## MINIMIZES ENGINE WEAR

The real innovation provided by NEANDER for the Dtorque is the development of the patented ‘Spaceball’ design and a unique system of dual counter-rotating crankshafts in an aluminum block. By rotating in opposite directions, the considerable vibration that a conventional small two-cylinder diesel engine would normally generate is eliminated.

On-board the benefits are obvious, from less vibration, less noise and lighter boat handling for reduced operator fatigue, to less stress on the engine.

- **REDUCED VIBRATION**
- **POWERFUL DRIVE**
- **QUIET**
- **ODOR FREE**

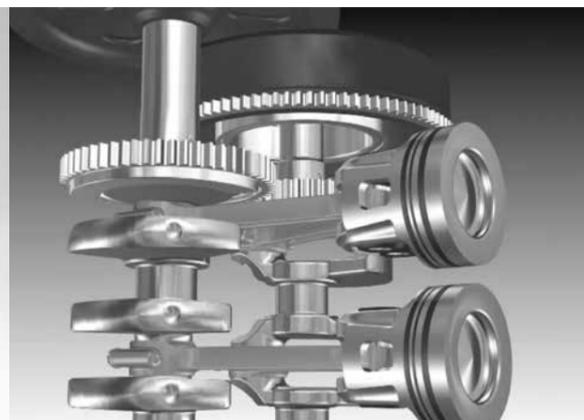
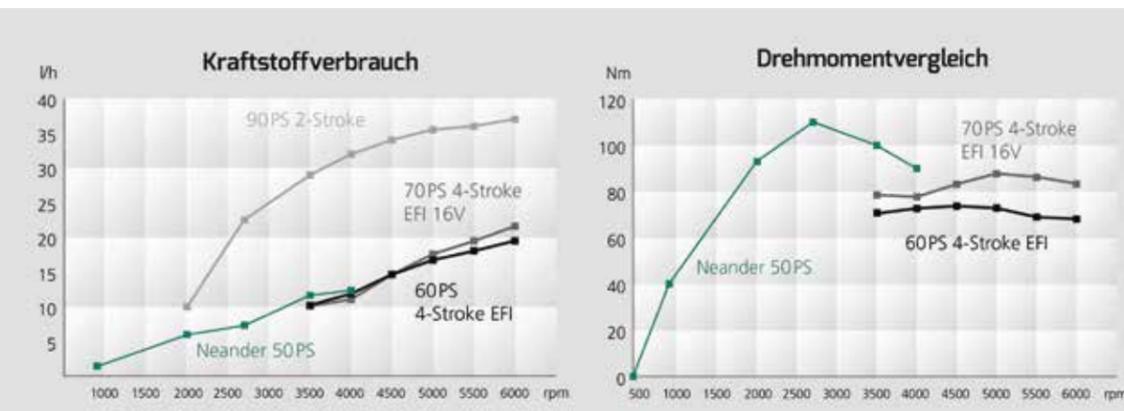
## TECHNICAL SPECIFICATIONS:



Power	36.8 kW / 50 hp at 4,000 min <sup>-1</sup>
Max. Torque	111 Nm at 2,000 - 3,000 min <sup>-1</sup>
Engine type	Charged in-line 2-cylinder diesel engine
Mass	Dual counter-rotating crankshafts
Displacement	804 cc
Bore x stroke	80 x 80 mm
No. of cylinders	2 in series
Charging	Turbocharger water-cooled and charge air cooling
Lubrication system	Integrated dry sump - pressure circulation lubrication
Fuel	Diesel / EN590 + DMA / DMX
Injection	Bosch common rail direct injection
Starter	Electric

Alternator	Standard 12V / 300W
Cooling	NEANDER Active Thermal Management System
Exhaust	Under water through propeller hub
Control	Tiller / remote control (optional)
Suspension	Tension and pressure controlled by silent blocks
Trim	Power Trim
Gear	Claw clutch
Ratio	13/27 (2.07:1)
Lengths	Underwater parts 20 “and 25”
Standard propeller	3-blade with built-in damper
Weight basic version	175 kg (dry weight)
Certified	SOLAS MED – B / D

Subject to technical changes





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