

**POWER FOR MARINE PROFESSIONALS**

# **RELIABLE AND POWERFUL DIESEL PROPULSION**

Volvo Penta IPS, Aquamatic and inboard engines for fast, planing workboats



**VOLVO  
PENTA**

# UNRIVALLED PERFORMANCE IN EVERY RESPECT

The new Volvo Penta D series diesels are here, combining superior performance with reduced exhaust emissions, even higher reliability and increased fuel efficiency.

The innovative engines, drives and the revolutionary new Volvo Penta IPS, Inboard Performance System, will not only make a great difference in your daily duties, but will also have a positive impact on long-term business performance.

## **Fast on to the plane...**

Volvo Penta is already famous for its unique marine torque getting you fast on to the plane and increasing your load-carrying capacity. The new D series takes this to a new level with unbeatable acceleration and the ability to maintain a high cruising speed, regardless of load or sea state.

## **... with a smoother ride**

There is no longer any need to compromise between performance and comfort. The new Volvo Penta D series comes with several features – e.g. sturdy design and precisely controlled fuel combustion – which ensure that the comfort on board is first-rate: quieter with less vibrations and virtually no smoke.

## **Increased range. Reduced fuel costs.**

Fuel consumption is critical in fast workboat operations. The Volvo Penta D series' exceptional fuel efficiency – a result of recent innovations in diesel technology – gives you greater operational range for safety and convenience. The reduced fuel consumption is also a major factor for cost savings in the long run.



**A century of experience**

Volvo Penta is a solid partner when it comes to providing marine power systems. We build on 100 years' experience of innovative marine engineering, coupled to the vast financial and technological resources provided by the Volvo Group. This enables us to design and deliver diesel performance for a broad range of marine applications.

**Global service**

Volvo Penta service and support is available from qualified and well-equipped service dealers in more than 100 countries.

In Europe and the USA, Volvo Penta Action Service stands by for 24-hour emergency assistance.

**Efficient parts supply and customised kits**

Genuine Volvo Penta Parts are easily accessible thanks to an efficient global distribution network. In Europe, parts are generally available within 24 hours of ordering. Customised parts kits simplify routine maintenance.



# TECHNOLOGY THAT PUTS YOU IN CONTROL

## Reliable Aquamatic drives

The new Duoprop sterndrives (DPH and DPR) have been developed to handle the tremendous torque and power developed by the D4 and D6 engines. Heavily dimensioned shafts, helically-cut gears and cone clutch all contribute to the excellent durability. Patented propellers deliver exceptional performance with no cavitation.

Permanent mould casting, saltwater grade aluminium in the housing and propellers made of nickel-aluminium-bronze alloy give excellent corrosion resistance.

The DPH and DPR drives are designed for the highest possible reliability and durability.

## X-act steering - literally

The DPH and DPR drives come equipped with the further developed, fully hydraulic X-act steering. Featuring integrated external steering cylinders and a high-precision feedback valve, X-act steering gives perfectly balanced steering wheel resistance and immediate response.

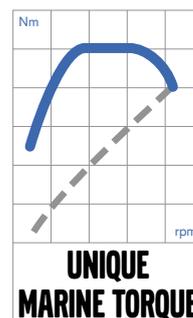
## Dependable electronic platform

The versatile Electronic Vessel Control (EVC) complies with the strictest classification requirements for professional use. It is Volvo Penta's common platform for engine and driveline management, based on the proven and flexible CAN-bus technology used for decades by the aviation industry.

EVC brings several benefits: detailed engine status information, enhanced engine protection, precise fuel injection, easier installation and faster engine diagnostics, to mention but a few. Since all mechanical cables are replaced by electrical wires, no vibrations are transmitted from the engine to the helm stations, contributing to onboard comfort.

## Easier start, rapid response

All D series engines feature high-pressure fuel injection controlled by the EVC. State-of-the-art technology that gives you easier starts, rapid response to driver commands, better cruising range and radically reduced exhaust emissions.



The basis of rapid acceleration and superior load carrying ability.



The D6-350 with high speed DPR drive gives safe handling up to 60 knots. High efficiency engine and drive give first class economy. Compared to gasoline V8, fuel consumption is some 40% lower but with similar performance.

# A REVOLUTIONARY PROPULSION SYSTEM

Volvo Penta IPS, Inboard Performance System, meets all your demands for better performance, handling and overall economy.

## **Unbeatable efficiency**

Volvo Penta IPS offers approximately 35% better efficiency than traditional inboard shafts. The reason is the Volvo Penta IPS drives featuring counter-rotating forward facing propellers working in undisturbed water, producing a completely horizontal thrust. The result is fast acceleration, high top speed and low fuel consumption.

## **Superior handling and manoeuvring**

Volvo Penta IPS puts you in control. The boat responds precisely and predictably to all your commands. The steerable Volvo Penta IPS drives make high speed handling precise and low speed manoeuvring easy.

## **Cleaner and more comfortable**

Volvo Penta IPS delivers major improvements in

onboard comfort. Exhaust emissions are almost non-existent, vibrations minimal and the sound level is significantly reduced.

## **New joystick manoeuvring**

The new optional joystick function puts you in total control during low speed manoeuvring. Move your boat in any direction – sideways, diagonally, forward, backward or rotate – with just one hand. No more complicated shift, throttle and steering wheel combinations.

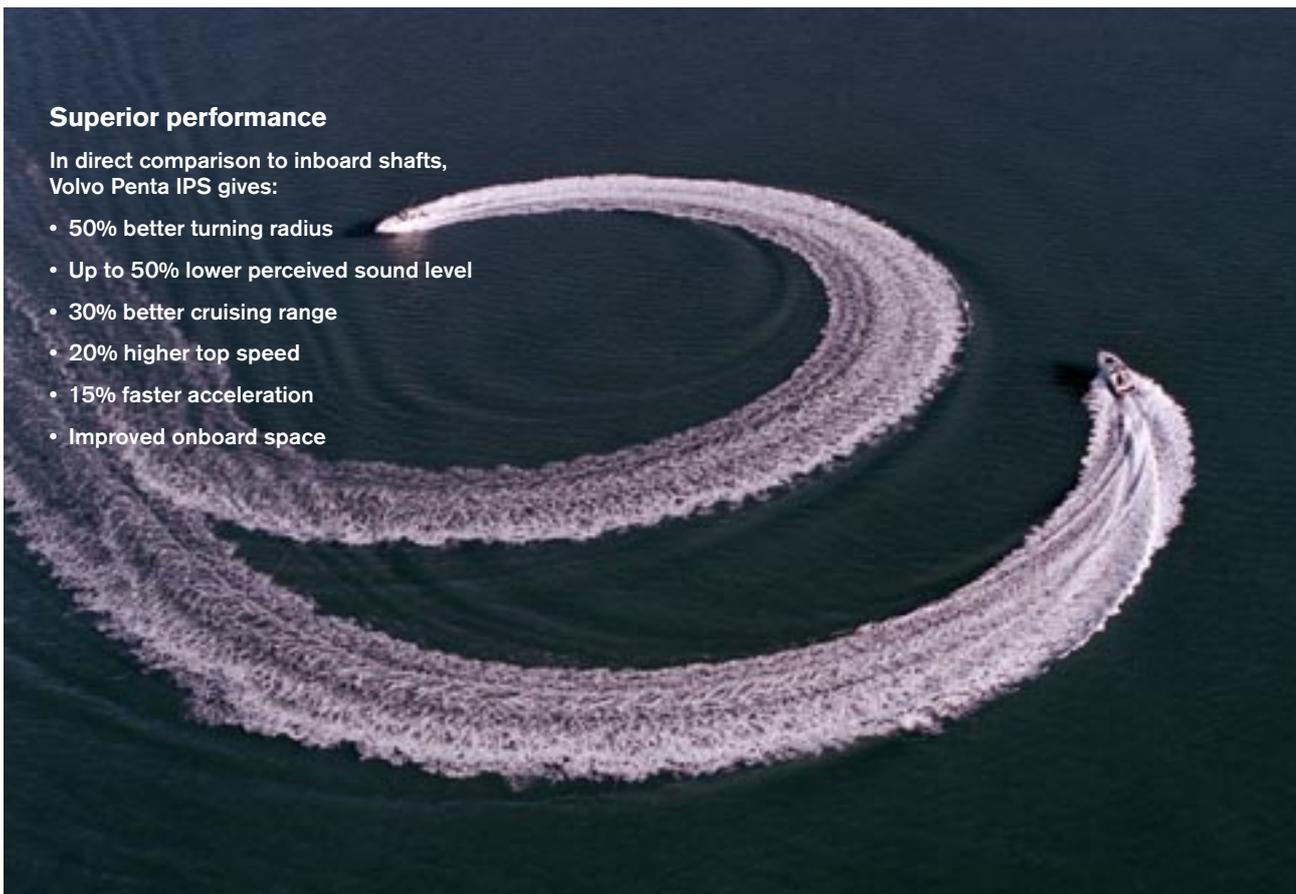
## **Safe and reliable**

The Volvo Penta IPS drives are robustly dimensioned, all parts in contact with seawater are made from bronze or stainless steel. Corrosion resistance is excellent and marine growth minimal. The entire system is linked together by the EVC system, which includes several safety functions

## **Superior performance**

In direct comparison to inboard shafts, Volvo Penta IPS gives:

- 50% better turning radius
- Up to 50% lower perceived sound level
- 30% better cruising range
- 20% higher top speed
- 15% faster acceleration
- Improved onboard space

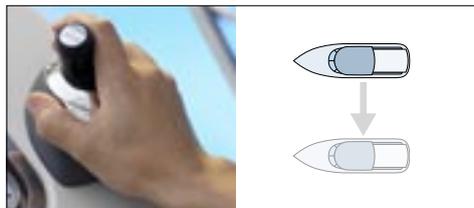




Volvo Penta IPS Joystick puts you in total control and lets you manoeuvre in any direction – sideways, diagonally, forward, backward or rotate – with just one hand!



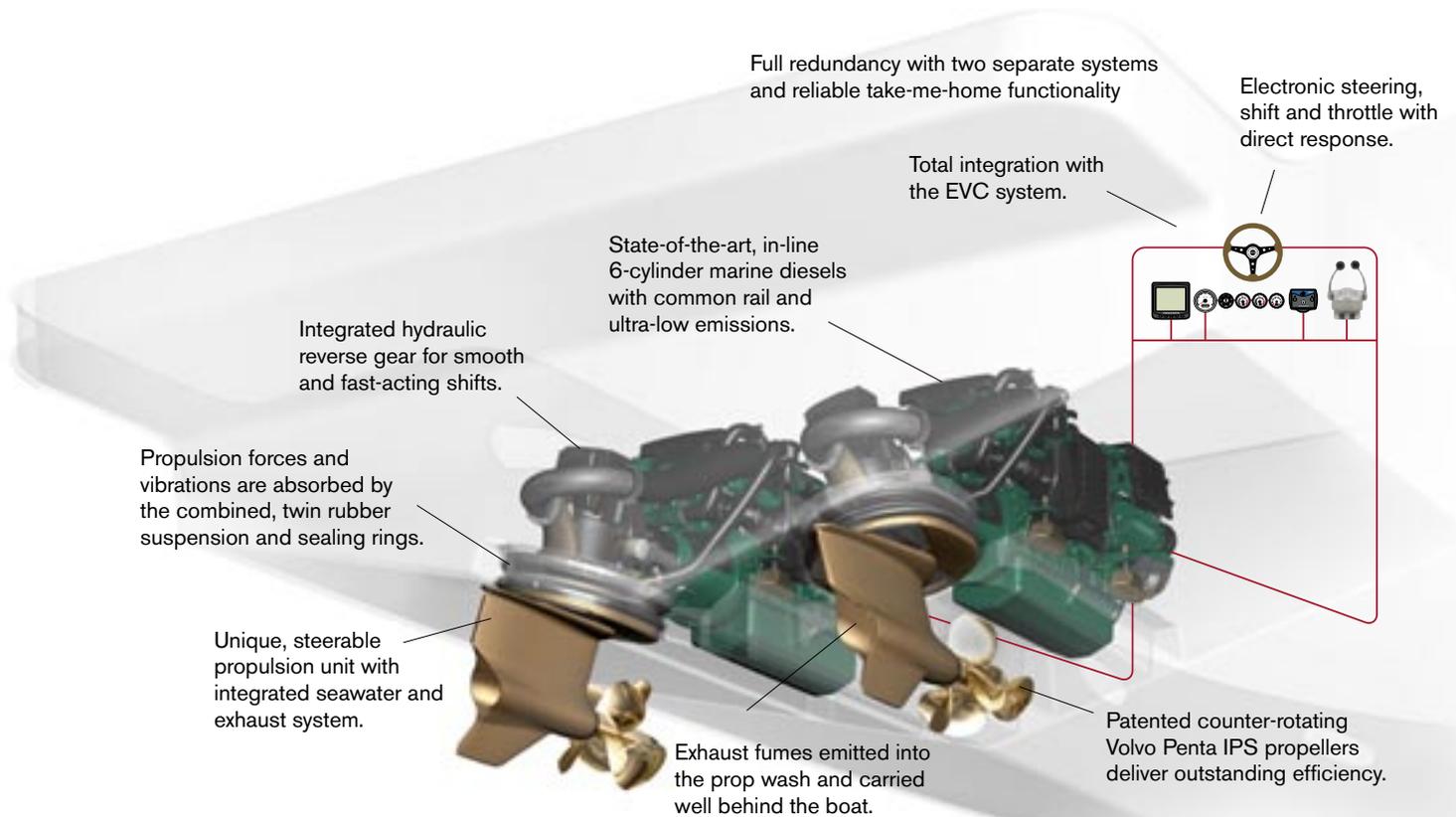
You can do all your low speed driving with the joystick. Much easier than the traditional way!



Push the joystick to port or starboard and your boat goes sideways. Even “impossible” berths are now accessible.



Twist the top to rotate. Combine it with any other move to compensate for wind or current.



## VOLVO PENTA IPS

This pioneering propulsion system for twin installation is powered by the D6 diesel engines. Volvo Penta IPS is developed for planing boats from about 35 to 50 feet with top speeds from 25 to +50 knots. Being a complete propulsion system, all vital functions such as engines, steering, shift, throttle and propellers are fully integrated.

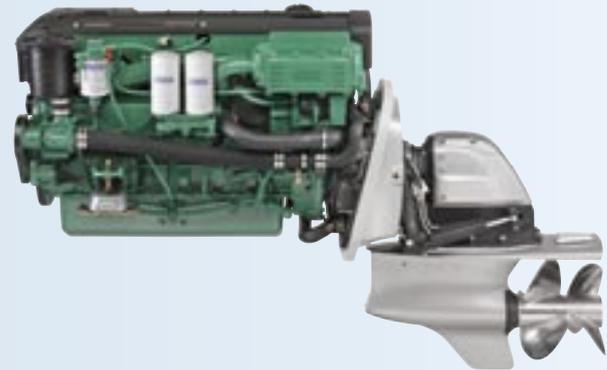


## VOLVO PENTA D6

In-line 6-cylinder engine with a full 5.5 litre displacement. EVC-managed common rail fuel injection.

Aquamatic with DPH or high speed DPR Duoprop drives.

Inboard with electronically controlled reverse gear or V-drive.



## VOLVO PENTA D4

The D4 is a compact 4-cylinder option with a full 3.7 litre displacement and EVC-managed common rail fuel injection.

Aquamatic with DPH Duoprop drive or for inboard installation with electronically controlled reverse gear.

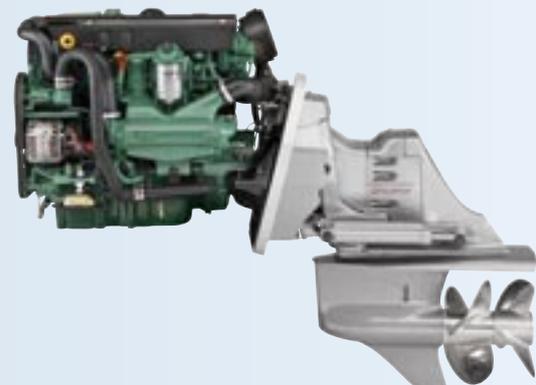


## VOLVO PENTA D3

Very compact and lightweight in-line 5-cylinder, 2.4 litre diesel engine, complete with EVC-managed common rail fuel injection.

The diesel Aquamatic range is available with the SX single prop or DPS Duoprop drive.

Inboard with hydraulic reverse gear.



All D series engines comply with MED and SOLAS regulations.

# VOLVO PENTA

[www.volvopenta.com](http://www.volvopenta.com)

Technical data according to ISO 8665.

All models not available in all markets.

Every effort has been made to ensure that facts and figures are correct at the time of publication. Volvo Penta reserves the right to make changes without prior notice.

Products shown may differ from production models.