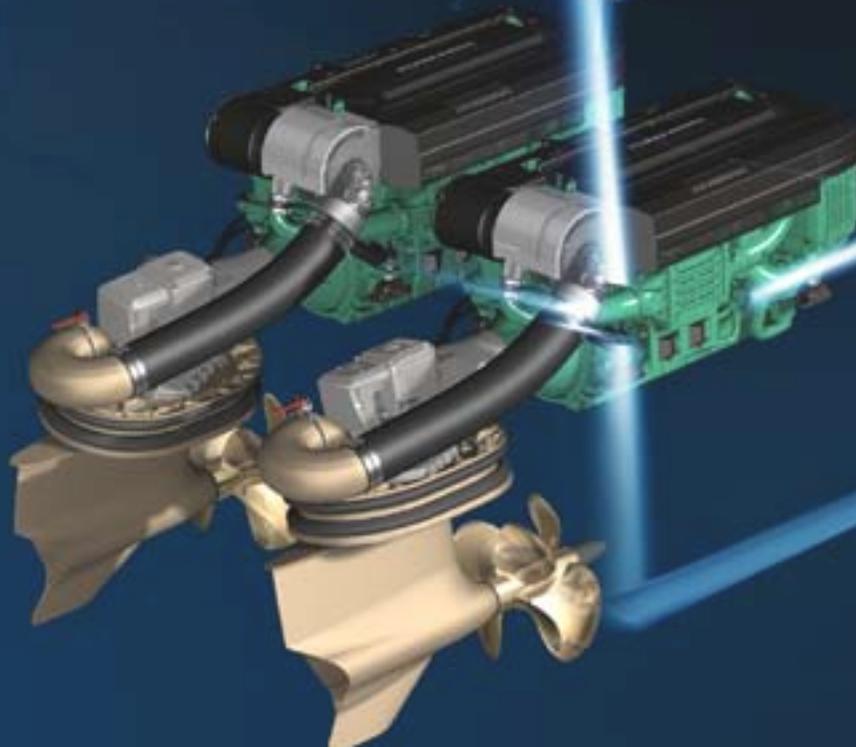


POWER FOR MARINE PROFESSIONALS



# VOLVO PENTA IPS THE PROPULSION REVOLUTION

A NEW ERA FOR FAST WORK AND PATROL BOATS



**VOLVO  
PENTA**



## THE UNIQUE BENEFITS OF VOLVO PENTA IPS:

- **30% reduced fuel consumption**
- **30% less CO<sub>2</sub> emissions**
- **40% longer operating range**
- **50% lower perceived noise and vibration level**
- **20% higher top speed**
- **Joystick docking**
- **Type approved**

Compared with inboard shafts at service speed, approximate figures. 30% reduction in fuel consumption gives around 40% longer operating range.

To Volvo Penta, green is more than a color. It's a commitment. Reducing environmental impact was one of the main targets when developing the IPS system.

## FROM A REVOLUTION TO A

Superior to inboard shafts in every vital aspect – handling, onboard comfort and performance, Volvo Penta IPS has revolutionized the marine industry.

The IPS1050 is powered by the D13 engine. With the unique twin-entry, dual-stage turbos, you will be impressed by its performance.

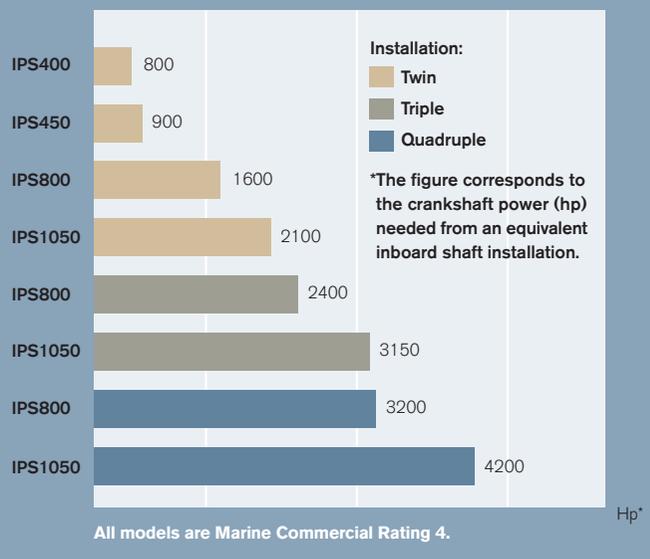


# PROVEN SUCCESS

Today, more than 10,000 IPS units are installed in many different types of vessels worldwide. With the new and type-approved IPS1050, the unique benefits of forward-facing and contra-rotating propellers are available for fast work boats, patrol boats and passenger ferries up to 30 meters and 45 knots.

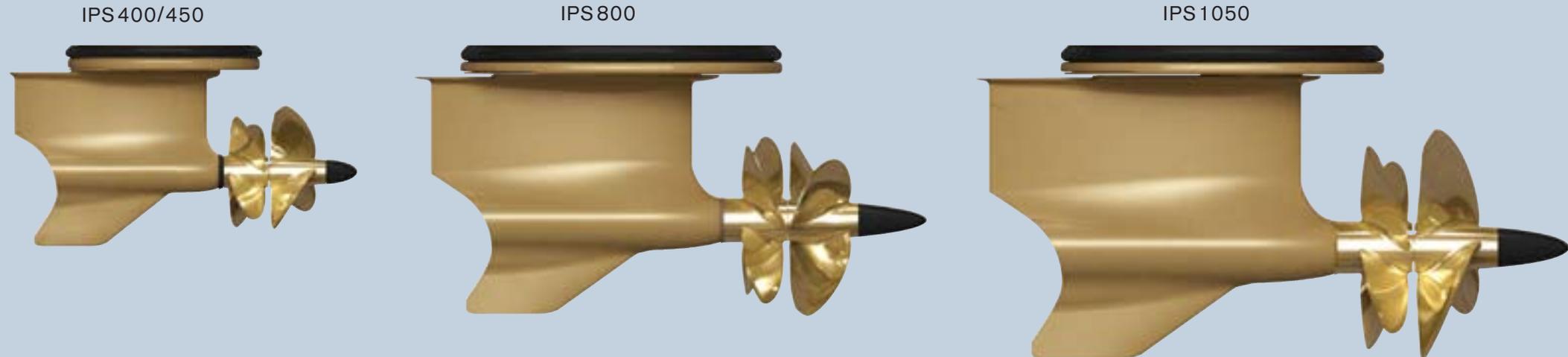


## IPS APPLICATION CHART



## A COMPLETE LINE FOR A PERFECT MATCH

Volvo Penta IPS offers a complete range for work and patrol boats and passenger ferries up to 30 meters and 45 knots. Twin, triple and quad are equally easy to drive with standard twin control heads. All accessories and options are available for all configurations.



Three pod sizes - perfectly matched to each engine's power and torque.

# INCREASED CONTROL AND SAFETY – WITH **EASIER MANEUVERING**

Volvo Penta IPS is available with a range of functions that can be tailored to the needs of your application. Designed to make life at sea easier, they allow you to concentrate on your operations with precise control, active steering and increased safety.

## VOLVO PENTA IPS JOYSTICK

- Easy and logical one-hand maneuvering
- Move in any direction
- Massive maneuvering power
- No bow or stern thrusters needed
- Up to four joysticks can be installed

### JOYSTICK FOR EASY DOCKING

The driver's best friend that makes docking easy. Forget complicated shift, throttle and steering wheel combinations in close-quarter maneuvering – simply move the joystick in the direction you want the boat to move, and the boat reacts to your intentions: sideways, diagonally, forward, backwards or turn around.

### DOCK FROM THE AFT DECK

You can make docking even easier with additional joysticks. Place them wherever you have the best possible view for maneuvering. Up to four joysticks can be installed.





INCREASED  
PRODUCTIVITY

## PERFECT CONTROL WITH ACTIVE STEERING

**Steerable pods** point the entire thrust in the desired direction. This gives active steering with immediate response to driver commands. At slow speed and in close quarters, steering response is direct and powerful. And while navigating in a following sea, the boat is course-stable and the direct response increases safety.

With **Volvo Penta IPS**, the driver has perfect control with immediate response, regardless of speed. In applications with frequent docking and tight maneuvering, this gives increased productivity and greater safety.



## HOLD YOUR HEADING

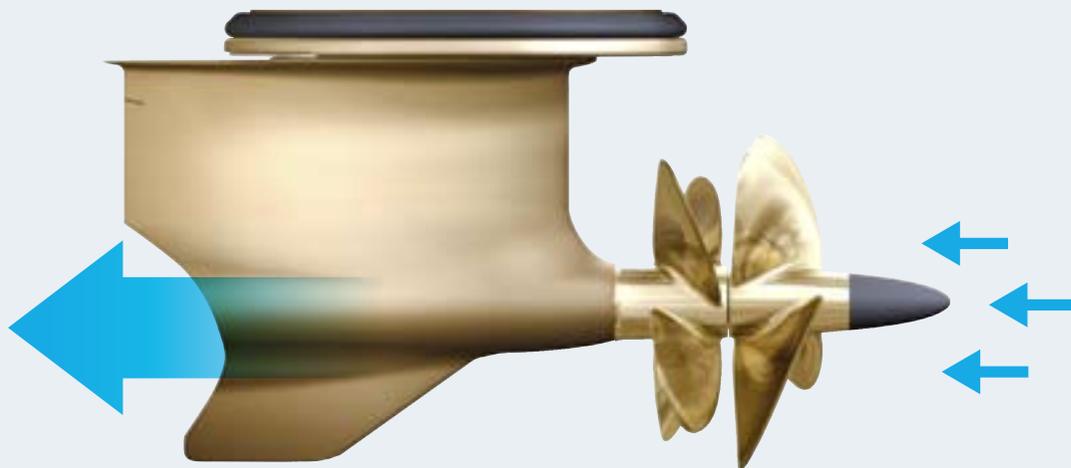
Press a button and the **Dynamic Positioning System** holds your boat's heading and keeps it within a very limited area. Twin high-precision GPS receivers determine the boat's position and heading. Software in the EVC system transforms this data into steering angles, gear shifts and throttle positions to keep the boat still.

# WHY **FORWARD FACING** PROPELLERS ARE SUPERIOR

Volvo Penta IPS provides what seems to be an impossible combination: dramatically improved performance, longer operating range and, at the same time, radically reduced CO<sub>2</sub> emissions – compared with inboard shafts and waterjet propulsion.

## FORWARD-FACING EFFICIENCY

The twin contra-rotating propellers face forward and work in undisturbed water. The propeller thrust is parallel with the hull, maximizing efficiency.

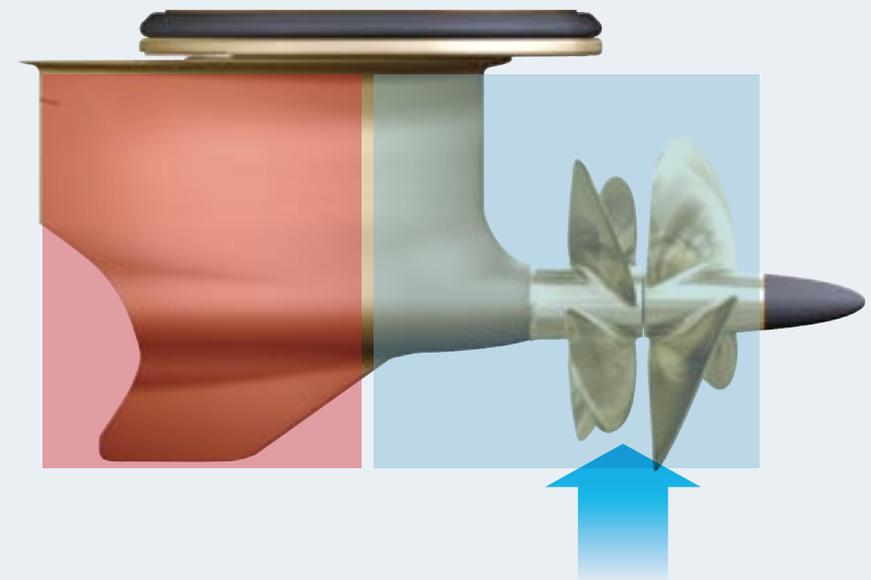


## STEERABLE PODS

Steerable pods point the entire thrust in the desired direction. The boat is absolutely course-stable and the turning radius is tight, with perfect grip and predictable handling through the whole speed range.

## CAVITATION-FREE

The propellers are positioned well under the hull to eliminate the risk of air intrusion and cavitation, even in sharp turns and under full acceleration.

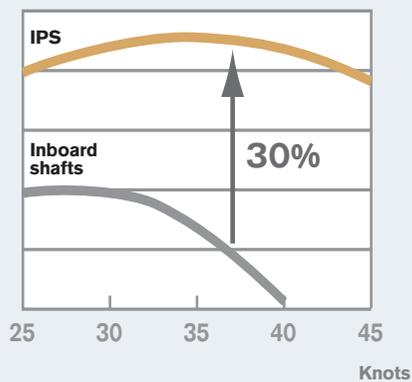




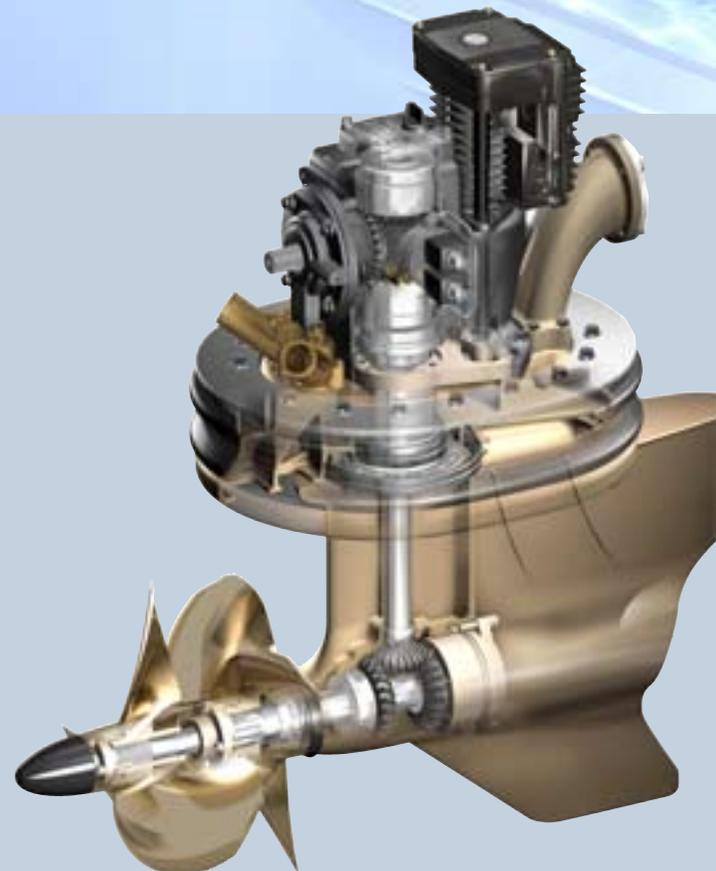
## MULTIPLE EFFICIENCY

With the slender pod units in combination with forward facing contra-rotating propellers, Volvo Penta IPS offers around 30% higher efficiency, in twin, triple or quadruple configurations.

Efficiency



The forward-facing solution and an efficient flat-surface hull. The result is around 30% better efficiency than inboard shafts.



## COMPLETE AND FULLY INTEGRATED

The pod is a complete unit including gearbox, exhaust system, water intake and steering. This greatly facilitates installation and improves reliability.

# A PERFECT MATCH

DEVELOPED, MANUFACTURED AND  
SERVICED BY ONE COMPANY

WITH VOLVO PENTA IPS you have one contact for everything. The components of the entire propulsion system can be sourced directly from your local Volvo Penta dealer. This means easy service and less downtime.

**KBAPTET**  
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VOLVO PENTA CENTER

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**VOLVO  
PENTA**

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

Volvo Penta IPS is a complete and integrated propulsion system – from the helm station to the propellers. This greatly increases quality and reliability. Designed with safety as a top priority, Volvo Penta IPS offers a robust construction with high redundancy in the EVC system.