

# Optimum Speed Saves Fuel and Ensures On Time Arrival

Effective voyage planning requires advanced propulsion control.



ESP 1000 Electronic Speed Pilot

## How Much Does a Tenth of a Knot Cost?

You may be surprised to learn that running just a tenth of a knot faster than necessary can have a significant impact on fuel costs. The table below illustrates how much fuel you can waste by not carefully monitoring and maintaining the optimum vessel speed throughout a voyage.

	Optimum Speed	+0.1	+0.2	+0.3	+0.4	+0.5	+0.6	+0.7	+0.8	+0.9	+1.0 Kts
Excess Fuel Burn Rate	0.0%	3.7%	7.6%	11.6%	15.7%	19.9%	24.2%	28.6%	33.1%	37.6%	42.3%

*Test data derived from 4000 hp twin screw tug towing a container barge*

## Precision Speed Control is the Key.

Conventional propulsion controls make optimum speed running difficult because as conditions change, RPM remains constant and the speed of the vessel varies above or below the optimum value. To compensate for this and to guard against a late arrival, vessels generally operate at higher speed than necessary. Using this technique, vessels invariably end up ahead of schedule and must either reduce speed for the last leg of a trip, or worse, detour to kill time. Test data shows, operating this way increases fuel consumption from 5.5 to 14.2 percent per trip.

The key then to maximum fuel savings and on time arrival, is determining the optimum speed at the beginning of a trip and maintaining it as conditions change throughout the voyage.

## 21<sup>st</sup> Century Propulsion Control.

The ESP 1000 Speed Pilot makes running at optimum speed easy by automatically adjusting RPM to maintain the optimum speed. Simply enter your speed required and distance to go and it adjusts your throttles automatically, ensuring an on time arrival and the most economical fuel usage possible.

## Cut Your Fuel Costs and Arrive On Time!

Equip your fleet with the ESP 1000 Electronic Speed Pilot.

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