



Integr^{el}
solutions

NAVICO
GROUP

INTEGR^{el} E-DRIVE



CLEANER SAILING FROM NAVICO GROUP & INTEGREL

A shared mission to accelerate the marine industry towards sustainable power generation gives customers the option to remove the polluting fossil fuelled generator without sacrificing on-board luxuries.

Founded in 2003, Triskel Marine (trading as Integrel Solutions) has spent 20 years researching and developing efficient power generation and storage technologies for the marine world.

Over the last 20 years, Navico Group have brought together the world's most trusted brands, offering decades of experience designing and developing state of the art technology and intuitive systems.

Integrel E-Drive delivers unprecedented power generation and electric hybrid drive, seamlessly integrated with 48V Mastervolt batteries as part of the Fathom product range from Navico Group.

Marine power generation and hybrid electric drive for the 21st century.



DAME
OVERALL WINNER



OCEAN NAVIGATOR
**CHUCK
HUSICK
AWARD**
2018
WINNER





GENERATE, DRIVE, REPEAT.

Integrel E-Drive

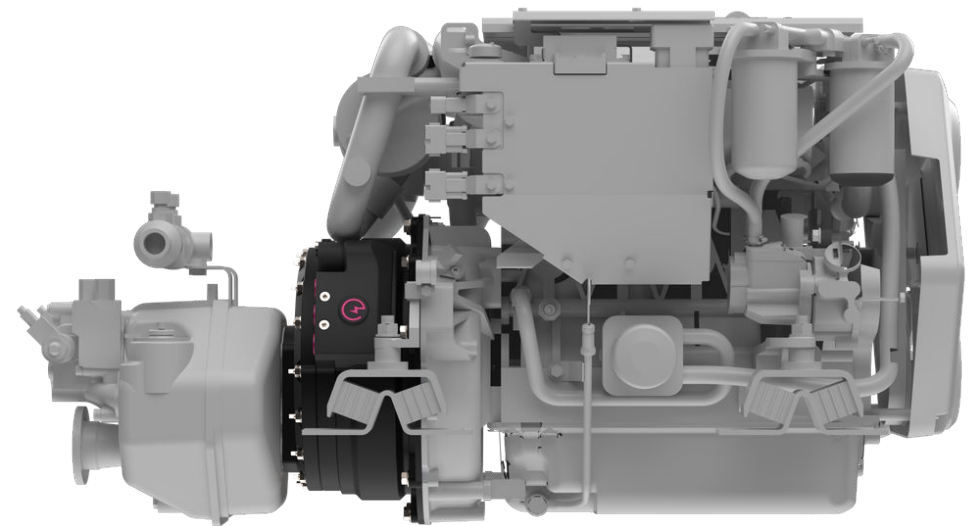
Power and propulsion delivered with unrivalled efficiency, enhancing the boating experience while balancing luxury with environmental responsibility. Fitted at point of manufacture between the engine and the gearbox, Integrel E-Drive is available for Monohull and Multihull applications.

20 hp electric propulsion and 15 kW power generation for single engines, doubling performance for dual engine configuration. The system can be fitted to both Sail drive and Shaft drive, adding <150mm to the axial length of the engine and gearbox.

Integrel E-Drive operates with the engine in the following modes:

- E-Drive propulsion (Engine off)
- Engine propulsion (E-Drive off)
- Engine propulsion and generation using E-Drive
- Engine generation using E-Drive at anchor
- Hybrid operation (each hull operated in a different mode)

Explore further with one system to drive and charge whilst saving on fuel costs, maintenance and the burden of a generator. Integrel E-Drive is fully integrated into Navico Group's Fathom e-power system; you'll never worry about running out of power again.





INTEGRAL E-DRIVE 15 SE

Integral E-Drive 15 SE, designed for single engine applications (both shaft and sail drive gearboxes), delivers 15 kW power when generating and 20 hp in E-Drive mode.

In generation mode, the system monitors throttle input so that in the event full engine power is needed for propulsion, the system instantly powers down. As soon as stable engine speed is restored, the system resumes power generation.

Using the electric drive starts with turning the fossil fuel engine off. The throttle drives the boat like normal, but without the noise, vibration and smell.

— SLIMLINE SHAFT-DRIVEN MOTOR

Installed between the engine and the transmission

Generates power to charge batteries at 48V

Drives the boat using power from the 48V battery bank

— 1X INTELLIGENT POWERTRAIN CONTROLLER

Manages motor operation to provide seamless electric drive transition and automatic power generation

Full integration with battery systems and third-party screens such as B&G chartplotters

— INTEGRAL SCREENS

To provide system monitoring and control of power generation, electric drive and batteries

— FULLY TESTED IN HOUSE

Every component tested & configured

— FULLY INTEGRATED

Full integration into Fathom e-power system from Navico Group

— AVAILABLE IN SHAFT OR SAIL DRIVE

Adds <150mm to the axial length of the powertrain

15 KW

Power

40%

Fuel saving

100%

Automatic

55KG

Weight

48

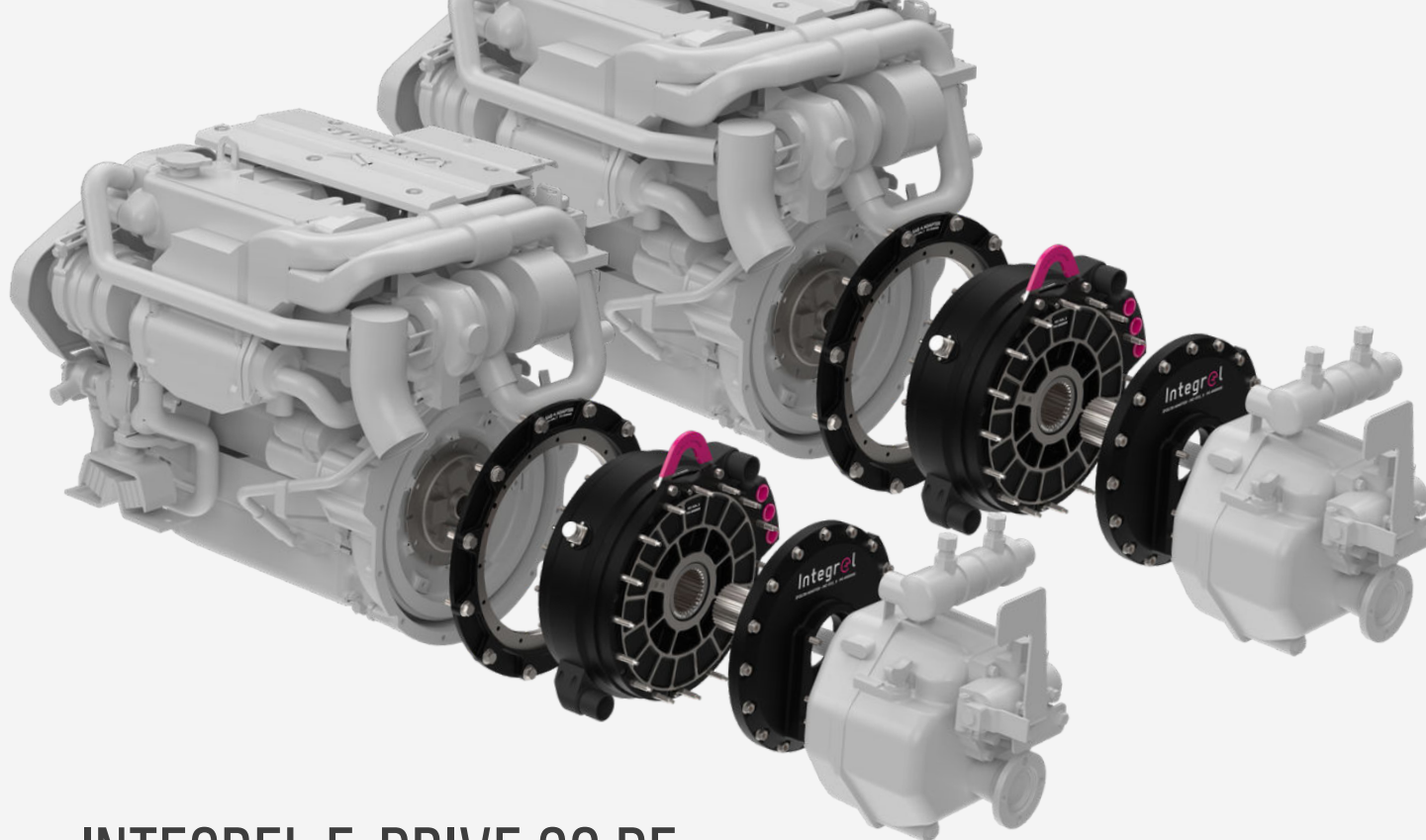
Volts

20

E-Drive HP

COMPATIBLE WITH

Yanmar | Volvo | Nanni | Steyr



INTEGRAL E-DRIVE 30 DE

Integral E-Drive 30 DE, designed for monohulls with dual engines and catamarans (both shaft and sail drive gearboxes), delivers 30 kW power when generating and 40 hp in E-Drive mode.

In generation mode the system monitors throttle input so that in the event full engine power is needed for propulsion, the system instantly powers down. As soon as stable engine speed is restored, the system resumes power generation.

Using the electric drive starts with turning the fossil fuel engine off. The throttle drives the boat like normal, but without the noise, vibration and smell.

30 KW
Power

40%
Fuel saving

100%
Automatic

110KG
Weight

48
Volts

40
E-Drive HP

COMPATIBLE WITH
Yanmar | Volvo | Nanni | Steyr

— SLIMLINE SHAFT-DRIVEN MOTOR

Installed between the engine and transmission

Generates power to charge batteries at 48V

Drives the boat using power from the 48V battery bank

— 2X INTELLIGENT POWERTRAIN CONTROLLERS

Manages motor operation to provide seamless electric drive transition and automatic power generation

Full integration with battery systems and third-party screens such as B&G chart plotters

— INTEGRAL SCREENS

To provide system monitoring and control of power generation, electric drive and batteries

— FULLY TESTED IN HOUSE

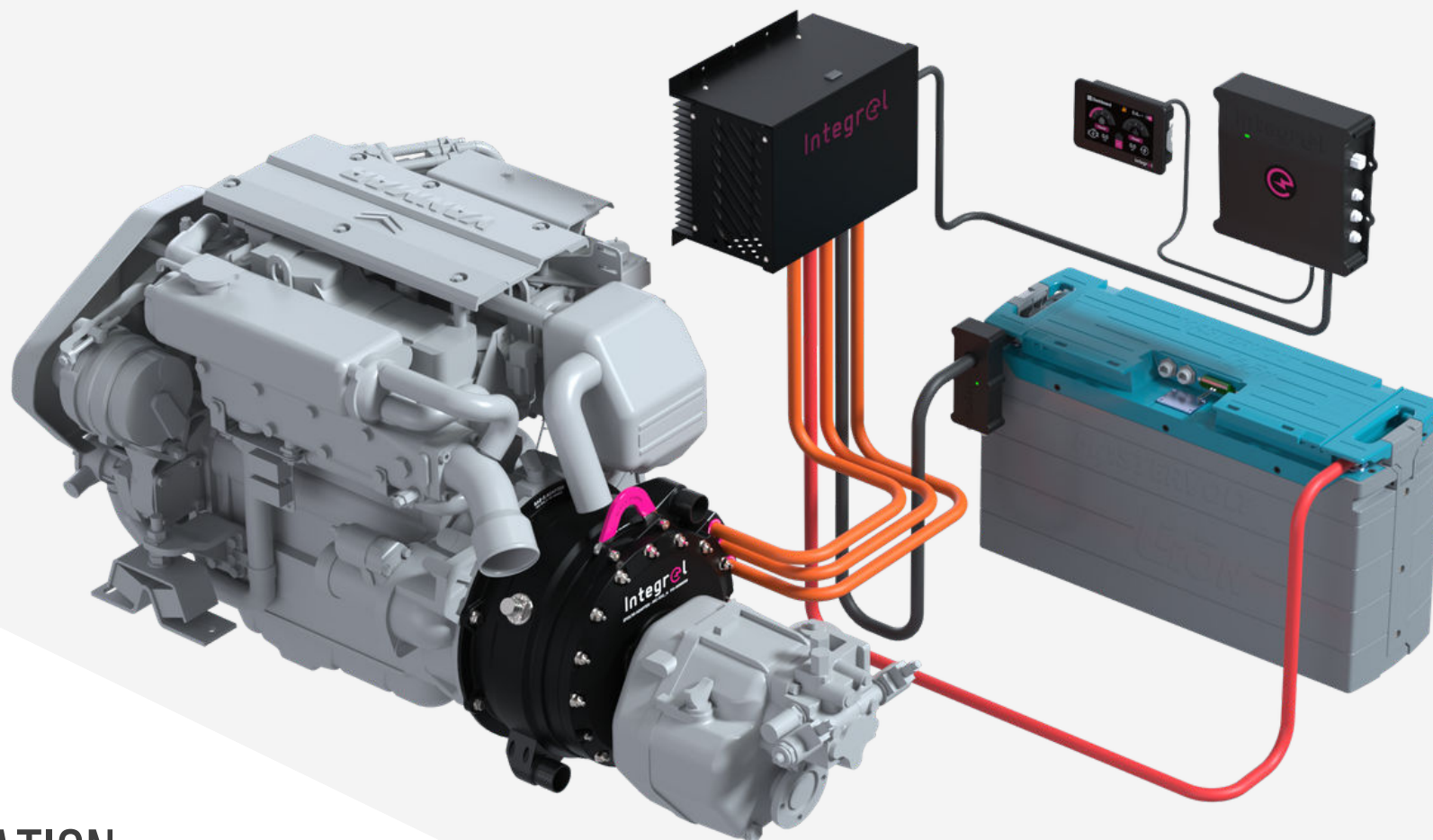
Every component tested & configured

— FULLY INTEGRATED

Full integration into Fathom e-power system from Navico Group

— AVAILABLE IN SHAFT OR SAIL DRIVE

Adds <150mm to the axial length of the powertrain



DRIVE & GENERATION INTELLIGENTLY DELIVERED

Generate, Drive, Repeat.

Hybrid electric drives leave your batteries feeling hungry. Integrel E-Drive is different. Our electric drive also generates power which keeps your batteries full to the brim.

Getting enough power onboard is a constant concern. Integrel E-Drive tops up your batteries while motoring for a worry-free life on the water. Hot showers and ice cold drinks guaranteed.



NO GENERATOR. NO NOISE. NO FUMES

Using Integrel E-Drive alongside Navico's Fathom system means you'll never have to worry about power again. Fathom combines the latest lithium-ion technology with premium components from the world's leading brands to deliver a complete power management system. Receive long-lasting, reliable power, and the ability to visualize and manage your usage with ease.



On-Board
Diesel
Generator

✖ PAST POWER SOLUTIONS



Costly
Fuel



Noise
Pollution



Low
Efficiency



High
Maintenance



Low
Run Time



Integrated
Lithium-Ion
System

⚡ THE FATHOM FUTURE



Lower
Emissions



Lower
Noise



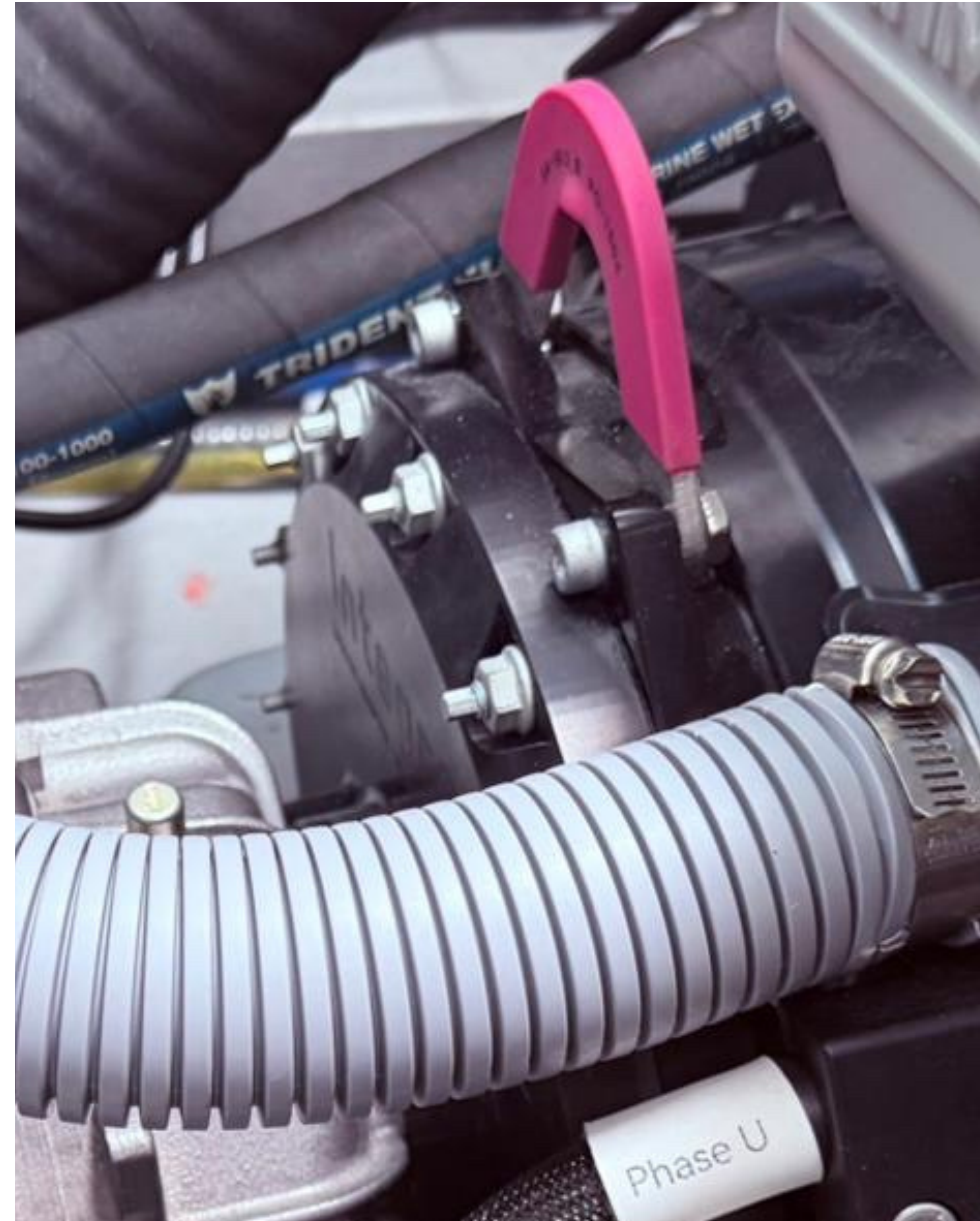
High
Efficiency



Less
Maintenance



Monitor
& Control





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