



Integral
solutions

NAVICO
GROUP

INTEGRAL 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 and drive generation, intelligently stored in 48V Mastervolt batteries. Fathom from Navico, offers the user advanced digital controls on demand with seamless integration.

Marine power generation and control for the 21st century.



DAME
CATEGORY
WINNER 2022

DAME
OVERALL 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.

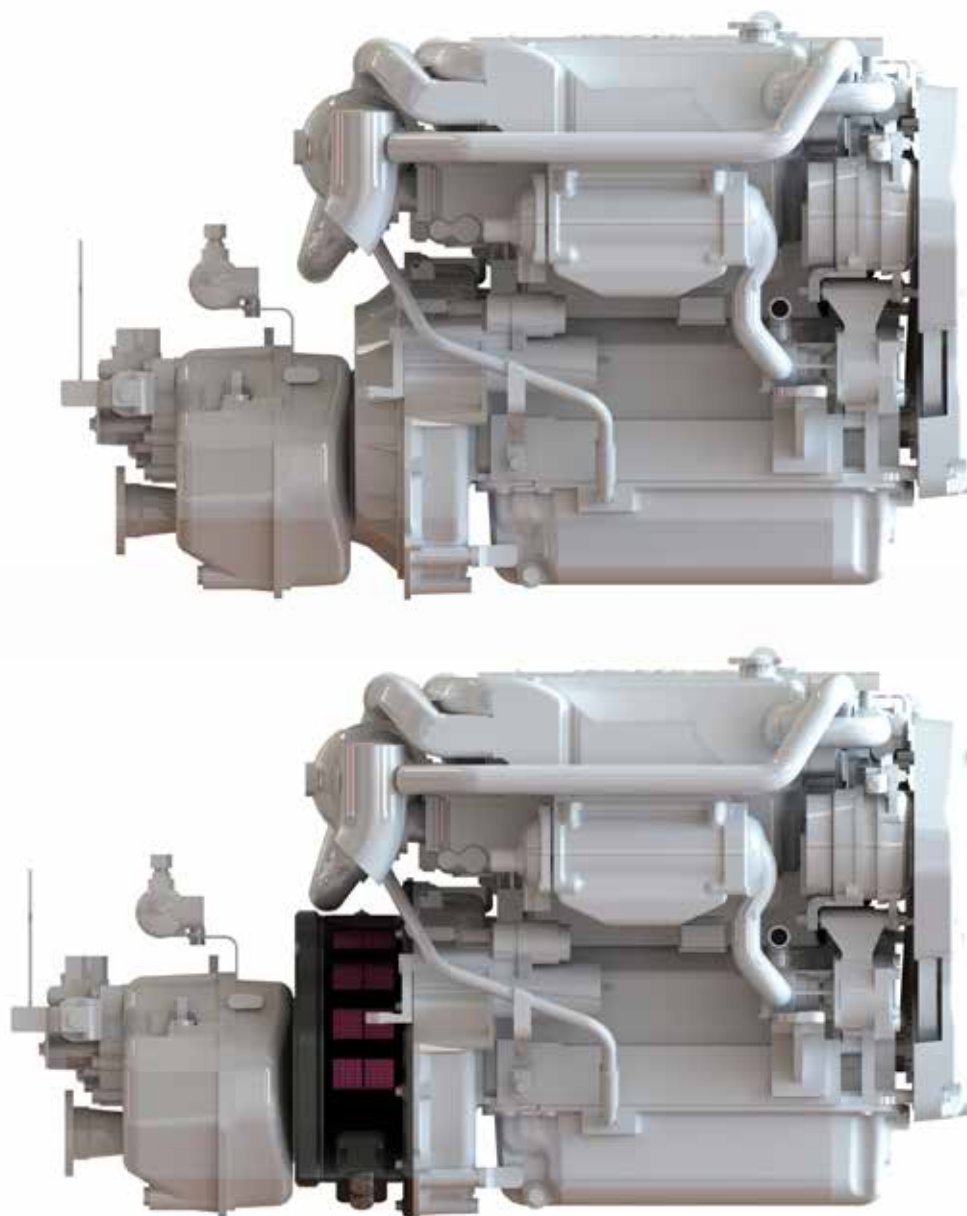
20 hp electric propulsion and 15 kW power generation for single engines, doubling performance for dual engine configuration. The system can be fitted to both Sail Drive and Shaft drive, adding <150mm to the axial length of the engine and gearbox.

Integrel E-Drive can operate in one of five modes.

- Engine idling
- Engine driving
- Engine generating power
- Engine driving and generating simultaneously
- E-Drive motor driving

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 automatic and perfectly integrated into Navico's Fathom e-power system; you'll never worry about running out of power again.

Integrel E-Drive is a better choice for you and the environment, reducing emissions without sacrificing performance.





INTEGREL E-DRIVE 15 SE

Integral E-Drive 15 SE, designed for single engine applications, 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 stored in 48V battery bank

— 1X INTELLIGENT 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

— 1X INTEGREL SCREEN

Provides 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

— AVAILABLE IN SHAFT OR SAIL DRIVE

Only adds <150mm to the axial length of the powertrain

15 kW
OF POWER

25%
FUEL SAVING

55
KILOGRAMS

100%
AUTOMATIC

48
VOLTS

20
E-DRIVE HP

COMPATIBLE WITH
YANMAR | VOLVO | NANNI | BETA | VETUS

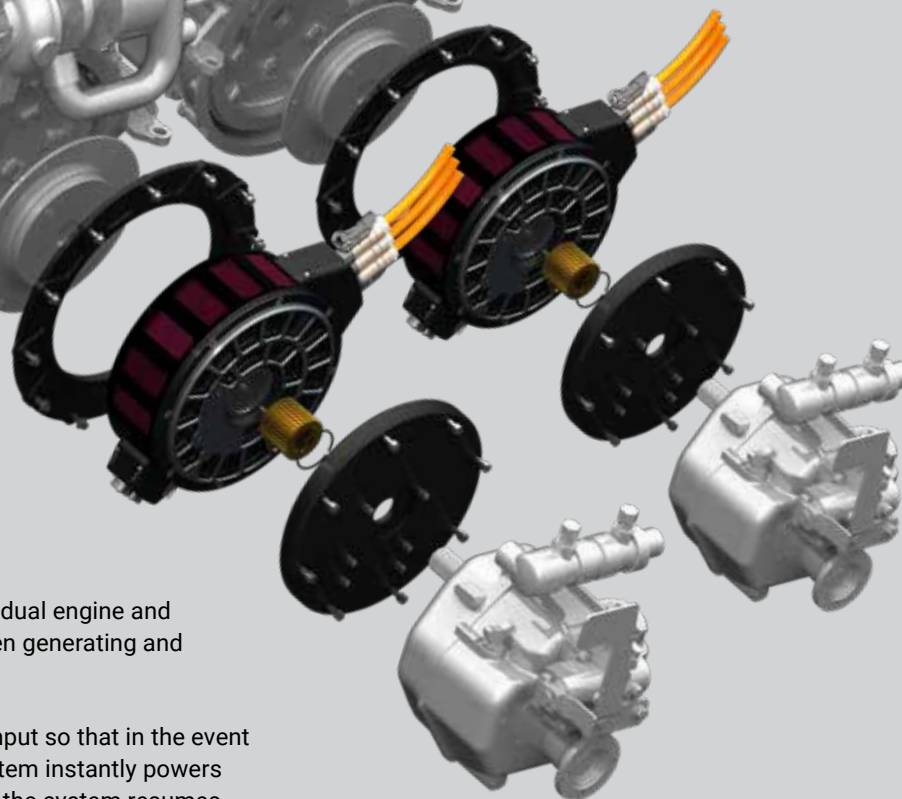


INTEGREL E-DRIVE 30 DE

Integrel E-Drive 30 DE, designed for monohull with dual engine and catamaran applications, 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.



— SLIMLINE SHAFT-DRIVEN MOTOR

Installed between the engine and the transmission

Generates power to charge batteries at 48V

Drives the boat using power stored in 48V battery bank

— 2X INTELLIGENT 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

— 1X INTEGREL SCREEN

Provides 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

— AVAILABLE IN SHAFT OR SAIL DRIVE

Only adds <150mm to the axial length of the powertrain. Offers the user dual redundancy

30 kW
OF POWER

25%
FUEL SAVING

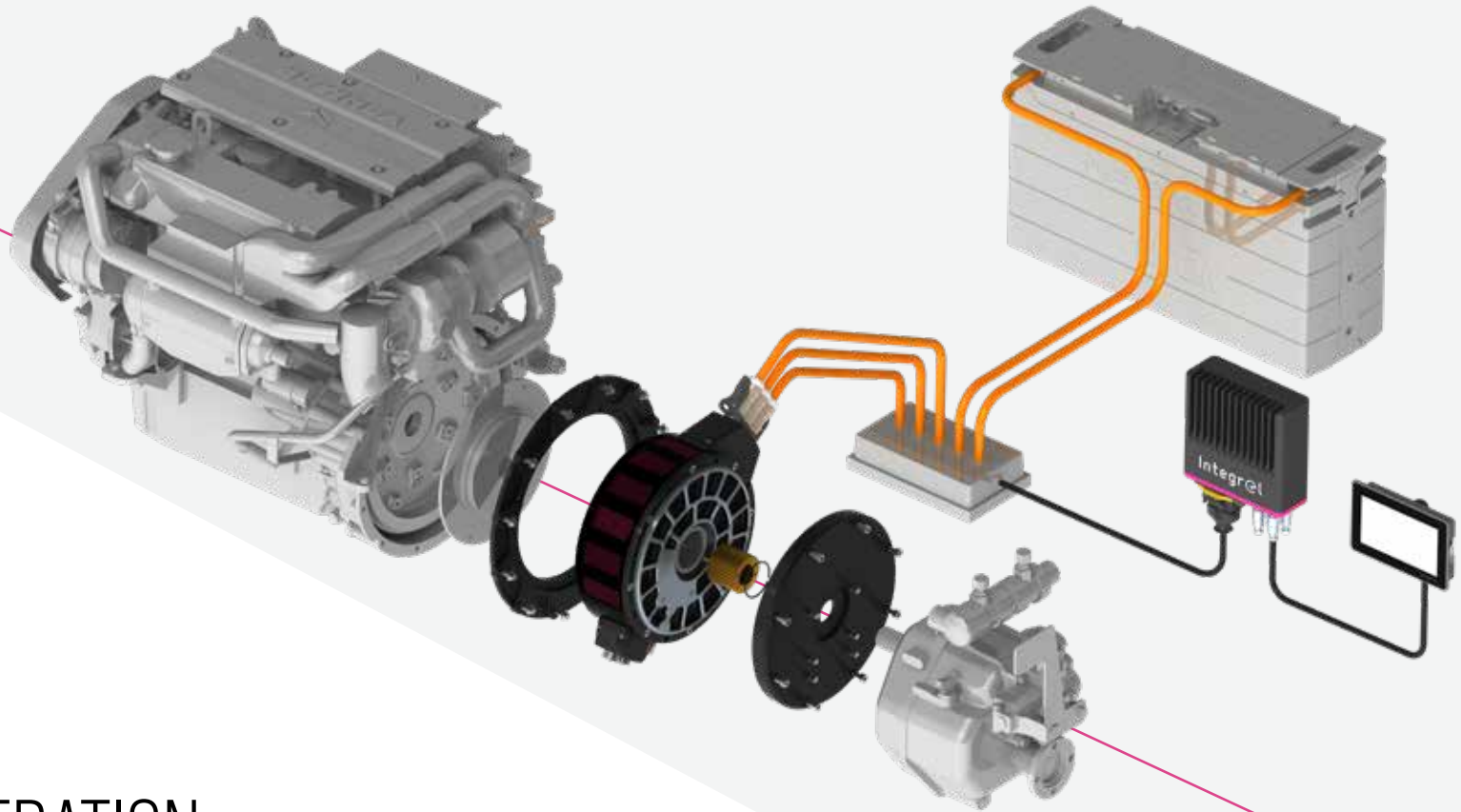
110
KILOGRAMS

100%
AUTOMATIC

48
VOLTS

40
E-DRIVE HP

COMPATIBLE WITH
YANMAR | VOLVO | NANNI | BETA | VETUS



DRIVE & GENERATION INTELLIGENTLY DELIVERED.

Generate. Drive. Repeat.

Hybrid electric drives leave your batteries feeling hungry. Integral 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. Integral 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





Integral
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