FPT
POWERTRAIN TECHNOLOGIES

MARINE
COMMERCIAL

Our efficiency.
Your edge.

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ABOUT FPT INDUSTRIAL

FPT Industrial is a Brand of Iveco Group, dedicated to the design, production, and sale of powertrains and solutions for on- and off-road vehicles, as well as marine and power generation applications. Over 8,000 people across ten production sites and eleven R&D centers work for FPT Industrial all around the world.

Active in nearly 100 different countries, its global sales and its Customer Service department supports all Brand customers. The extensive product offering includes six engine ranges with power outputs from 42 hp to over 1,000 hp, transmissions with torque up to 500 Nm, and front and rear axles from 2.45 to 32 tonne GAW (Gross Axle Weight). FPT Industrial offers the most complete line-up of natural gas engines for industrial applications on the market, with power outputs ranging from 50 to 520 hp.

A dedicated ePowertrain division is accelerating the path towards net zero-emissions mobility, with electric drivelines, battery packs, and battery management systems.

This extensive offering, and its strong focus on R&D, makes FPT Industrial a world leader in industrial powertrains and solutions.

We are proud to be a people oriented and innovation driven Company, that builds Customer advantage through continuous research and improvement, and creates value by leveraging this advantage.

**We innovate constantly.
We increase the benefits for
end users and create value
for the businesses we serve.**

THE WAVE OF INNOVATION

Superior Technology & Outstanding Advantages

FPT Industrial's engines for pleasure and commercial boats stand out for superb quality, features and application versatility. They bring maximum and continuous specific power and torque at low speed. They achieve better efficiency in all sea conditions. They also boast an impressive durability.

A dramatic reduction of noise and vibrations combines power with sailing pleasure. Exhaust gas emissions have been cut down too, lowering environmental impact.

Our engineering experience has delivered a lightweight design, with high power/volume and power/weight ratios, for easier installation and superior performance.

Performance
High power density and top power delivered for different applications.

Flexibility
A compact engine with a low volume/power ratio.
A full range of available accessories.
Compliant with a wide range of emissions and Class type approvals.
Available in heat exchanger and keel cooled configuration.

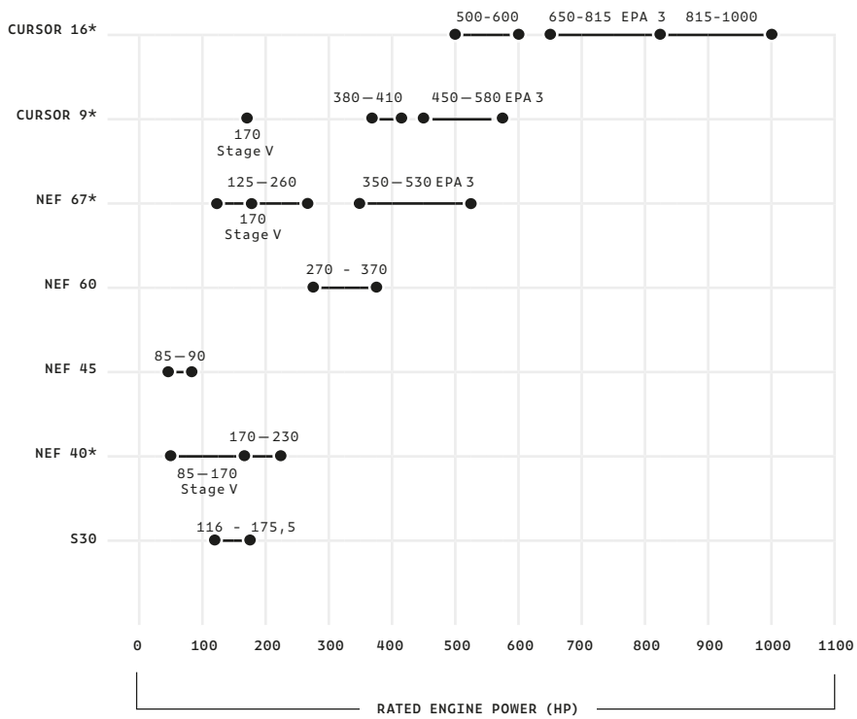
Low Environmental Impact
Outstanding environmental impact reduction is achieved through low emissions and compatibility with various drop-in alternative fuels, among which the HVO (Hydrotreated Vegetable Oil) fuels, resulting in a CO_2 reduction of over 90% without compromising performance and service.

Low Operating Costs
The reduced level of fuel consumption combined with a long maintenance schedule results in a convenient Total Cost of Ownership.

Reliability
FPT Industrial marine long blocks are the same applied on hundreds of thousands on-road and off-road applications worldwide, making them a synonym of reliability and uptime, testified by hundreds of Customers all around the world.

FPT Industrial Marine Engines Portfolio Overview

COMMERCIAL LINE-UP 85 ÷ 1000 HP



* Available with Keel Cooling

Marine Commercial Emissions Regulations

Where	Emission Rules
EU Inland Waterways	IWV Power < 300 KW
	IWV Power ≥ 300 KW
UK Inland Waterways (England, Wales, Scotland, Northern Ireland)	GBTA - final legislation not published yet
EU Coasts and Worldwide seagoing (not ECA)	IMO ≥ 130 kW
ECA areas : USA (not USA flagged vessel)	IMO ≥ 130 kW IMO ≥ 130 kW in case of propulsion engine power < 750 kw and vessels dimensions are not allowing the installation of an ATS
ECA areas : Canada (within Canadian waters)	IMO ≥ 130 kW up to 15 m IMO ≥ 130 kW above 15 m
ECA areas : EU North Sea and Baltic Sea	IMO ≥ 130 kW
USA (USA flagged vessel)	EPA < 600kW
USA (USA flagged vessel)	EPA > 600kW
CHINA (Inland waterways and Coastal areas)	GB15097

Emission rules - details:

IWV Stage V = Regulation (EU) 2016/1628
IMO-Marpol = ANNEX VI Technical Code 2008
ECA = IMO-Marpol Emission Controlled Area
EPA = 40CFR1042
GB Stage2 = GB15097:2016
= Aftertreatment system (ATS) required

2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
IWV Stage IIIA			IWV Stage V							
IWV Stage IIIA				IWV Stage V						
						Provisional GB Type Approval required, released based on EU IWV Stage V				
IMO Marpol Tier2										
IMO Marpol Tier3										
IMO Marpol Tier2										
IMO Marpol Tier3	IMO Marpol Tier2 - derogation up to end of 2027									
IMO Marpol Tier3										
IMO Marpol Tier2						IMO Marpol Tier3				
EPA Tier3										
EPA Tier 3 temporary allowance in 1042.145(k) through end of MY2023, Special Provisions for certain vessel types 600-1400 kW								EPA Tier4 (Tier 4 exemption process beginning in 2024 in 1042,145(m) to be requested by vessel manufacturer)		
GB Stage 1						GB Stage 2				

The International Maritime Organization (IMO) regulates exhaust emissions for diesel engines above 130kW (174 hp), with an exemption for engines used exclusively in emergency applications. The IMO Tier III regulation applies within NOx Emission Control Areas and is effective for vessels built after January 1, 2016, in North America and the US Caribbean Sea.

The Nonroad Mobile Machinery Directive rules exhaust emissions from diesel engines installed on inland waterway vessels operating in the European Union (EU). The Recreational Craft Directive regulates noise and exhaust emissions from propulsion engines on recreational craft operating within the EU.

The United States Environmental Protection Agency (EPA) regulates exhaust emissions from diesel engines installed on marine vessels flagged or registered in the United States.

In the People's Republic of China, the GB15097 National Standard aims to prevent and control air pollution from marine engines, thereby improving ambient air quality. It applies to marine engines installed on inland waterway vessels, coasters, sea-river-through ships, channel ships, and fishing boats.

The Recreational Craft Regulations (RCR) 2017/737 are UK laws that establish essential requirements for products before they can be placed on or put into service on the UK market, ensuring their safety. These regulations apply to recreational craft, personal watercraft, certain engines, and specified components.

The GB Type Approval Scheme is the automotive regulatory scheme applicable to manufacturers intending to market vehicles and components in Great Britain. It sets safety and environmental standards for new vehicles, parts, and equipment. This scheme is based on the retained EU legislation as of December 31, 2020, and subsequent UK legislation that amends or supplements the retained EU legislation.

Marine Rating Classification

Full load reference conditions

Reference	**ISO 8665**
Ambient pressure (kPA):	100
Air inlet temperature (°C):	25
Relative humidity (%):	30
Fuel density (kg/dm³):	0,835
Fuel calorific value (kJ/kg):	42700
Fuel temperature (°C):	40

Variable speed Rating class

		Definition
A1	Short range fast pleasure service	Limited to 10% of time Cruising speed at engine rpm <90% of calibration rated speed 300 h/y
A2/B1	Long range pleasure/commercial service	Limited to 10% of time Cruising speed at engine rpm <90% of calibration rated speed 1000 h/y
B	Light duty	Limited to 10% of time Cruising speed at engine rpm <90% of calibration rated speed 1500 h/y
C	Medium duty	Limited to 25% of time Cruising speed at engine rpm <90% of calibration rated speed 3000 h/y
D	Heavy duty	up to 100% of time unlimited h/y

Fixed speed Rating class : Prime Power (PRP)

Prime Power conforms to ISO 8528
Unlimited hours per year
Maximum mean load factor of 70% of rated power over 24 h of operation.
Overload +10% (maximum of 1 h in 12 h, maximum in 25 h per year)

Variable speed engines line-up

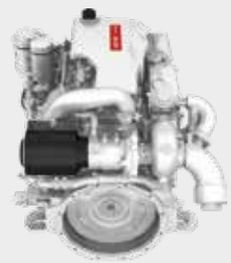
Engine model	Rating	kW	hp	rpm	Dimensions* (L**xWxH) (mm)	Dry Weight (kg)
S30 230 E	B	129	175,5	3500	780 x 776 x 755	330
S30 230 E	C	85	115,6	3500	780 x 776 x 755	330
N40 250 E	B1	169	230	2800	834 x 708 x 772	490
N40 250 E	B	147	200	2800	834 x 708 x 772	490
N40 250 E***	C	125	170	2800	834 x 708 x 772	490
N40 250 E***	C	110	150	2800	834 x 708 x 772	490
N40 250 E***	C	74	100	2800	834 x 708 x 772	490
N40 250 E***	C	63	85	2800	834 x 708 x 772	490
N45 100	B	66,5	90	2800	811 x 700 x 836	450
N45 100	D	63	85	2800	811 x 700 x 836	450
N60 400 E	B1	272	370	3000	1089 x 726 x 789	595
N60 400 E	B	242	330	3000	1089 x 726 x 789	595
N60 400 E	C	198	270	3000	1089 x 726 x 789	595
N67 150	B	99,5	135	2800	1052 x 705 x 910	530
N67 150	D	92	125	2800	1052 x 705 x 910	530
N67 220	C	132	180	2800	1072 x 749 x 800	605
N67 220	D	110	150	2800	1072 x 749 x 800	605
N67 280	B	191	260	2800	1072 x 749 x 800	605
N67 280	C	169	230	2800	1072 x 749 x 800	605
N67 280	D	132	180	2500	1072 x 749 x 800	605
N67 450 N	B1	309	420	3000	1088 x 717 x 789	600
N67 450 N	B	272	370	3000	1088 x 717 x 789	600
N67 450 N	C	257	350	3000	1088 x 717 x 789	600
N67 450 N***	D	125	170	2300	1088 x 717 x 789	600

* Dimensions can be changed according to engine options.
** Length at flywheel.
*** IWV Stage V Certification.

Engine model	Rating	kW	hp	rpm	Dimensions* (L**xWxH) (mm)	Dry Weight (kg)
N67 550	B1	368	500	3200	1089 x 828 x 824	721
N67 550	B	353	480	3200	1089 x 828 x 824	721
N67 570 EVO	B1	390	530	3000	1089 x 828 x 805	721
N67 570 EVO	B	357	485	3000	1089 x 828 x 805	721
C90 410	C	301	410	2000	1289 x 861 x 973	950
C90 410	D	279	380	2000	1289 x 861 x 973	950
C90 410	D	220	300	2000	1289 x 861 x 973	950
C90 410***	D	125	170	2000	1289 x 861 x 973	950
C90 620 E	B1	445	605	2530	1312 x 863 x 973	940
C90 620 E	B1	426	580	2530	1312 x 863 x 973	940
C90 620 E	B1	404	550	2530	1312 x 863 x 973	940
C90 620 E	B	368	500	2530	1312 x 863 x 973	940
C90 620 E	C	331	450	2530	1312 x 863 x 973	940
C90 650 E	B1	445	605	2530	1312 x 863 x 973	940
C16 600	D	441	600	1800	1470 x 1025 x 1169	1570
C16 600	D	404	550	1800	1470 x 1025 x 1169	1570
C16 600	D	368	500	1800	1470 x 1025 x 1169	1570
C16 1000	B1	735	1000	2300	1470 x 1166 x 1169	1640
C16 1000	B1	691	940	2450	1470 x 1166 x 1169	1640
C16 1000	B	662	900	2300	1470 x 1166 x 1169	1640
C16 1000	C	599	815	2300	1470 x 1166 x 1169	1640
C16 1000	C	588	800	2300	1470 x 1166 x 1169	1640
C16 1000	C	588	800	2000	1470 x 1166 x 1169	1640
C16 1000	C	551	750	2300	1470 x 1166 x 1169	1640
C16 1000	C	478	650	2300	1470 x 1166 x 1169	1640
C16 1000	C	599	815	2000	1470 x 1166 x 1169	1640
C16 1000	C	551	750	2000	1470 x 1166 x 1169	1640

THE S30 SERIES

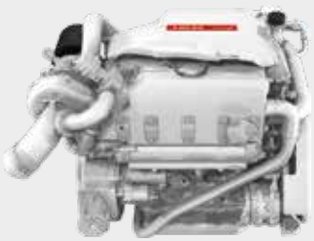
85 - 129 KW / 4 L



Thanks to its extraordinary performance/consumption trade-off and its low emission level, our F1 family is perfect for powering any kind of light planing or semi-planing pleasure boat up to 8 meters.

The S30 engine is offered in high-performance, light-duty and medium-duty versions, and can be customized on request. The wide range of options includes monitoring systems, stern drives, propulsion and emission certifications.

S30



S30 230 E

Arrangement:	4 Cyl. in line
Total Displacement (L):	3,0
Maximum Power (kW (Hp) @ rpm):	129 (175,5) @ 3500
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L^2xWxH) 780 x 776 x 755 mm
Dry Weight	330 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II
B	129	175,5	3500	215	exempted
C	85	115,6	3500	224	exempted

Air Handling

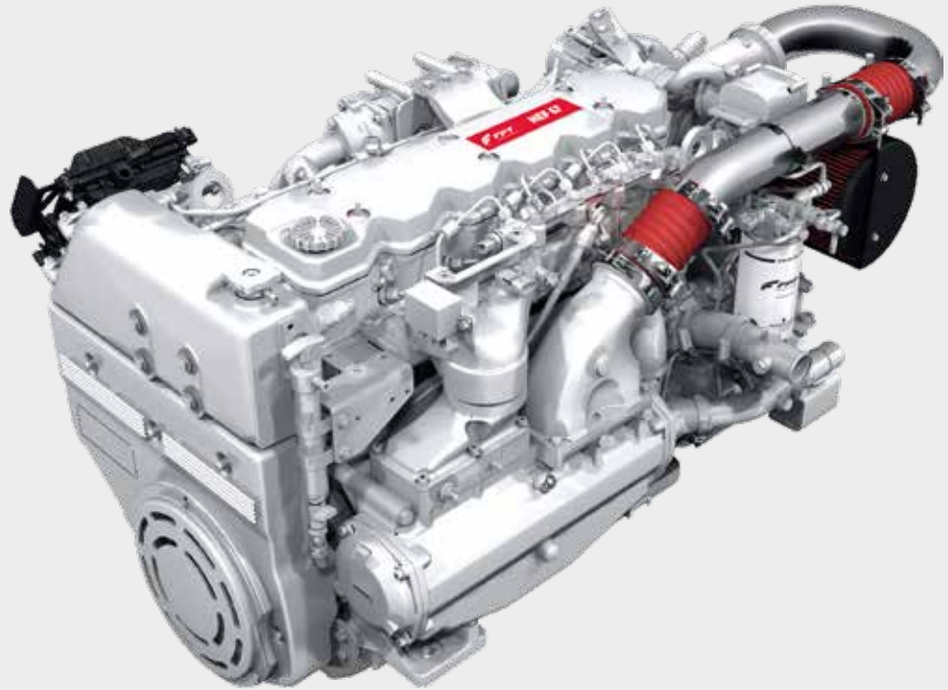
TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

Injection System

M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector

THE NEF SERIES

63 – 390 KW / 3,9 – 6,7 L

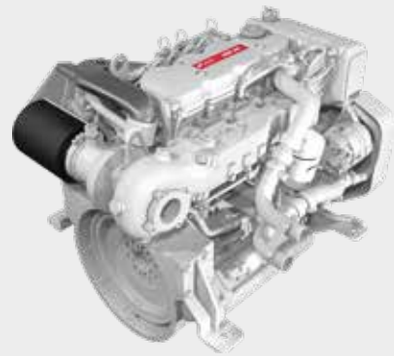


The NEF Series is the widest among FPT Industrial engine family for Pleasure and Commercial marine duties, with four different displacements available in mechanical and electronic version.

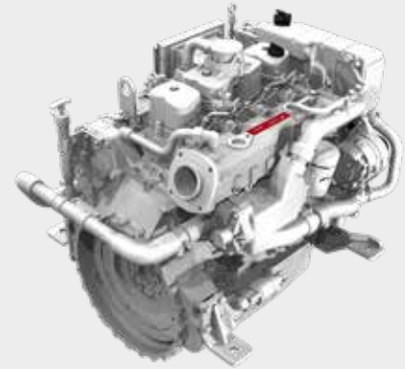
The NEF engines Commercial range are characterized both by advanced mechanical fuel injection and electronic common rail systems, and provide high, constant power and torque delivery, reliability, low fuel consumption and servicing costs, while keel-cooled versions are available on demand.

The NEF Series is offered in governmental, high-performance, light, medium and heavy-duty versions, and can be customized on request.

N40

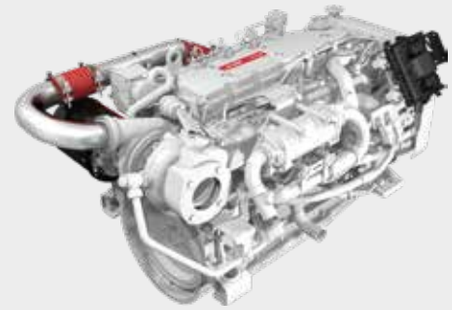


N45



N60

N67



N40 250 E

Arrangement:	4 Cyl. in line
Total Displacement (L):	3,9
Maximum Power (kW (Hp) @ rpm):	169 (230) @ 2800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L**xWxH) 834 x 708 x 772 mm
Dry Weight	490 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	IWV Stage V| GBTA
B1*	169	230	2800	235	●	-
B*	147	200	2800	214	-	-
C*	125	170	2800	233	exempted	●
C*	110	150	2800	241	exempted	●
C	74	100	2800	261	exempted	●
C*	63	85	2800	271	exempted	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

N45 100

Arrangement:	4 Cyl. in line
Total Displacement (L):	4,5
Maximum Power (kW (Hp) @ rpm):	66,5 (90) @ 2800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	NA
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 811 x 700 x 836 mm
Dry Weight	450 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II
B*	66,5	90	2800	260	exempted
D*	63	85	2800	260	exempted

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

N60 400 E

Arrangement:	6 Cyl. in line
Total Displacement (L):	5,9
Maximum Power (kW (Hp) @ rpm):	272 (370) @ 3000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1089 x 726 x 789 mm
Dry Weight	595 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II
B1	272	370	3000	227	●
B	242	330	3000	225	●
C	198	270	3000	224	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

N67 150

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	99,5 (135) @ 2800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	NA
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1052 x 705 x 910 mm
Dry Weight	530 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II
B*	99,5	135	2800	255	exempted
D*	92	125	2800	257	exempted

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

N67 220

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	132 (180) @ 2800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TC
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1072 x 749 x 800 mm
Dry Weight	605 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II
C	132	180	2800	237	-
D	110	150	2800	238	exempted

Air Handling

TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

Injection System

M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector

N67 280

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	191 (260) @ 2800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1072 x 749 x 800 mm
Dry Weight	605 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II
B*	191	260	2800	231	●*
C*	169	230	2800	233	●*
D*	132	180	2500	221	●*

Air Handling

TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

Injection System

M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector
*	Keel-cooled version available

N67 450 N

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	309 (420) @ 3000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L^2xWxH) 1088 x 717 x 789 mm
Dry Weight	600 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)	IWV Stage V | GBTA
B1*	309	420	3000	224	●*	●*	●	–
B*	272	370	3000	232	●*	●*	●	–
C*	257	350	3000	228	●*	●*	●	–
D*	125	170	2300	234	exempted	–	–	●*

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

N67 550

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	368 (500) @ 3200
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L^2xWxH) 1089 x 828 x 824 mm
Dry Weight	721 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	368	500	3200	231	●	●	●
B	353	480	3200	238	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

N67 570 EVO

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	390 (530) @ 3000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L^2xWxH) 1089 x 828 x 805 mm
Dry Weight	721 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial
B1*	390	530	3000	225	●*	●*
B*	357	485	3000	222	●*	●*

Air Handling

TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

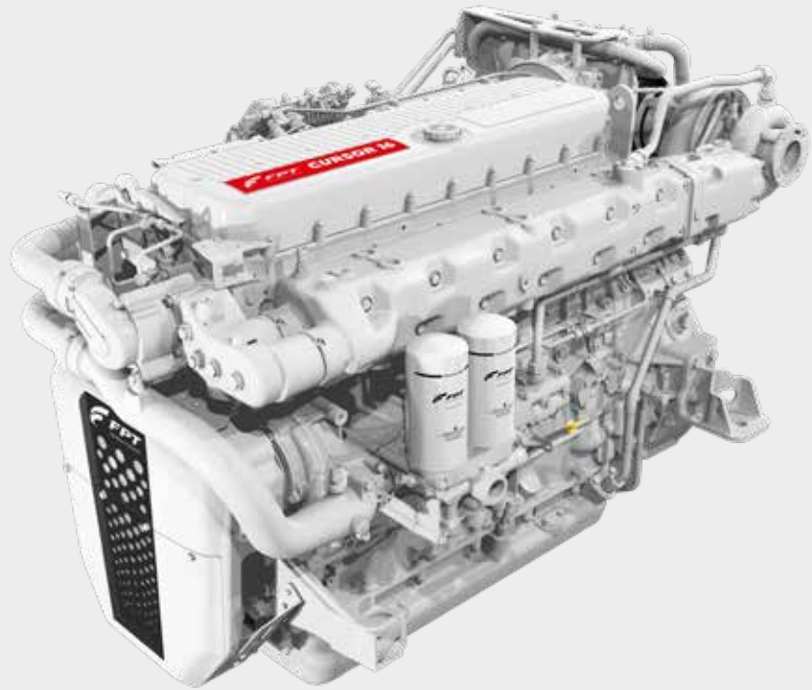
Injection System

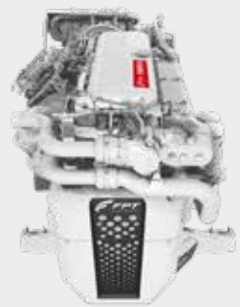
M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector
*	Keel-cooled version available

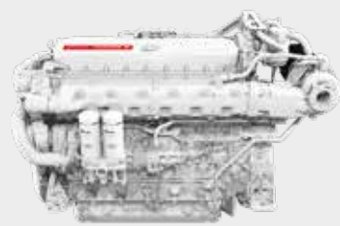
Our range of safe, reliable solutions for marine applications improves efficiency and productivity.

THE CURSOR SERIES

125 – 735 KW / 8,7 – 15,9 L







Cursor engines offer outstanding power output standards with minimum displacement and the highest levels of reliability.

Professionals of the sea trust Cursor engines for their high innovation level, easy maintenance and extreme efficiency that result in competitive operating costs. The Cursor Series is offered in high-performance, light, medium and heavy-duty versions. All engines can be customized on request.

C90

C16

C90 410

Arrangement:	6 Cyl. in line
Total Displacement (L):	8,7
Max Power (kW (Hp) @ rpm):	301 (410) @ 2000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1289 x 861 x 973 mm
Dry Weight	950 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)	IWV Stage V | GBTA
C*	301	410	2000	212	●	●*	●	-
D*	279	380	2000	226	●	●*	●	-
D*	220	300	2000	220	●*	●*	●	-
D*	125	170	2000	256	exempted	-	-	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

C90 620 E

Arrangement:	6 Cyl. in line
Total Displacement (L):	8,7
Maximum Power (kW (Hp) @ rpm):	447 (608) @ 2530
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1312 x 863 x 973 mm
Dry Weight	940 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	426	580	2530	220	●	●	-
B1	404	550	2530	224	●	●	●
B	368	500	2530	225	●	●	●
C	331	450	2530	228	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

C90 650 E

Arrangement:	6 Cyl. in line
Total Displacement (L):	8,7
Maximum Power (kW (Hp) @ rpm):	445 (605) @ 2530
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1312 x 863 x 973 mm
Dry Weight	940 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1*	445	605	2530	232	●*	●*	-

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

C16 600

Arrangement:	6 Cyl. in line
Total Displacement (L):	15,9
Max Continuous Power (kW (Hp) @ rpm):	441 (600) @ 1800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L[2]xWxH) 1470 x 1025 x 1169 mm
Dry Weight	1570 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
D*	441	600	1800	207	●*	●*	●
D*	404	550	1800	207	●*	●*	●
D*	368	500	1800	209	●*	●*	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
* Keel-cooled version available

C16 1000

Arrangement:	6 Cyl. in line
Total Displacement (L):	15,9
Maximum Power (kW (Hp) @ rpm):	735 (1000) @ 2300
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions[1]	(L^2xWxH) 1470 x 1166 x 1169 mm
Dry Weight	1640 Kg

[1] Dimensions can be changed according to engine options
[2] Length at flywheel

Rating	kW	hp	rpm	g/kWh (Rated Speed)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	735	1000	2300	228	●	-	●
B1	691	940	2450	234	●	-	-
B	662	900	2300	231	●	-	●
C*	599	815	2300	233	●*	-	●
C*	599	815	2000	222	●*	-	-
C*	588	800	2300	234	●*	●*	-
C*	588	800	2000	226	●*	●*	-
C*	551	750	2300	233	●*	●*	●
C*	551	750	2000	222	●*	●*	-
C*	478	650	2300	241	●*	●*	●

Air Handling

TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

Injection System

M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector
*	Keel-cooled version available

FIXED SPEED AUXILIARY

Fixed Speed G-Drive engines line-up.

The FPT Industrial marine fixed speed G-Drive range offers a reliable set of solutions for on-board power generators to power and satisfy hotel loads for pleasure and commercial applications.

Available in 50 and 60 Hz versions, fixed speed G-Drive engines have been developed to act in synergy with the FPT Industrial marine propulsion line-up, with power ratings capable of a 10% power overload, according to ISO 8528 prime power.

The rich list of available options allows to meet the most different needs, including fuel pump actuators (GAC) for mechanical engines and the electronic speed controller devices for both mechanical and electronic engines.

Type approvals available on request.

Engine model	Prime power ratings [kWm]	Rated speed [rpm]	Fuel Consumption Rated L/h (Gal/h)	Emissions
N45 100	36	1500	9,8 (2,6)	IMO-exempted
N45 100	44	1800	12,0 (3,2)	IMO-exempted
N67 150	54	1500	14,7 (3,9)	IMO-exempted
N67 150	65	1800	17,7 (4,7)	IMO-exempted
N67 280	100	1500	25,6 (6,8)	IMO-exempted
N67 280	98	1800	25,0 (6,6)	IMO-exempted
N67 450 N	129	1500	31,2 (8,2)	IMO-exempted
N67 450 N	129	1800	31,5 (8,3)	IMO-exempted
C90 410	192	1500	50,6 (13,4)	IMO II
C90 410	230	1500	60,6 (16,0)	IMO II
C90 410	242	1800	64,1 (16,9)	IMO II
C90 410	276	1800	76,0 (20,1)	IMO II

MARINE ENGINE OPTIONS

FPT Industrial offers a whole range of options to complete your engine.

Elastic Mountings

Electrical system
- Electrical configuration 12V or 24V
- Insulated poles electrical system
- Uprated Alternators

Power Take-Off
- Front PTO
- Rear PTO

Monitoring&Control
- Gauges and sensors
- Digital and analog panels
- Electronic throttle levers and joystick
- Multi-function panels
- Water cooled or dry exhaust pipes
- Gearboxes
- Emission and Class type approvals engine certification with various classification societies

Please contact your local distributor on our locator at fptindustrial.com to get more information.

RED HORIZON

The FPT Industrial's marine integrated electronic control and monitoring system.

Red Horizon is FPT Industrial's marine integrated electronic control and monitoring system developed in partnership with ZF and Navico (Simrad).

Conceived as the perfect connection between pilot and engine, Red Horizon is a combination of high-tech contents and style that culminates in unmatchable performance, excellent maneuverability, and mooring.

Characterized by a skillful and inimitable mix of high-tech contents and style, Red Horizon guarantees full navigation control and safety, optimal piloting comfort and easy handling and mooring.

Find out more at:

Simrad Navigation Display Line-Up

App for Screen Mirroring

Built in Wi-Fi connectivity means no extra hardware is required:

- Mirror your GO, NSS and NSO Series screen on compatible smartphones by downloading the Link app (by Navico GoFree), available for Android and iOS.
- Access to your GO, NSS and NSO Series using your tablet.

Additional Functions

We offer the ability to integrate additional devices that can enhance your boating experience, which are not available through FPT Industrial. These devices are designed to complement your boating activities and provide added functionality and convenience. From advanced navigation systems and fish finders to entertainment systems and communication devices, we can work with you to customize your boat with the latest technology and accessories that meet your specific needs and preferences. Our goal is to ensure that your boating experience is as enjoyable and fulfilling as possible, through the possibility to add:

- Radar and Weather
- Autopilot
- Camera / Thermalcamera
- Echosounder
- Trip Data Statistics
- Audio Control

Compatibility

- NEF Family: N40, N60, N67 450 N, N67 550, N67 570 EVO
- Cursor Family: C90 170, C90 410, C90 650 E, C90 620 E, C90 650 EVO, C16 600, C16 1000

FPT Industrial Premium Control

- FPT Industrial adopts ZF electronic propulsion control systems (SmartCommand) specifically matched for FPT Industrial engines.
  The FPT Industrial Premium Control integrates **the latest CAN bus technology** into a user friendly control head: ZF 5200.

- The FPT Industrial Premium Control offers the freedom to customize special features for docking or trolling.
  Advanced control modes include:

  ✓ **CRUISE**
  ✓ **EASIDOCK**
  ✓ **AUTOTROLL**
  ✓ **WARM UP**
  ✓ **ONE LEVER**

FPT Industrial Premium Joystick

- FPT Industrial adopts ZF manoeuvring systems (JMS) specifically matched for FPT Industrial engines. The FPT Industrial Premium Joystick provides **simple and intuitive boat control** during manoeuvres and allows the captains to easily manoeuvre the vessel in complex docking situations.
  The FPT Industrial Premium Joystick is an optional solution that can be added to Premium Control systems.

- Manoeuvres such as moving sideways to the dock, 360° rotation on the spot and vessel control at low speed, to improve with standard control heads, become easy operations.

- Thanks to an integrated electronic compass, the FPT Industrial Premium Joystick, **keeps the vessel going in the selected direction**.

CUSTOMER SERVICE

YOU ASK FOR THE BEST. WE MAKE IT HAPPEN.

When the market becomes increasingly challenging, it is essential to have reliable partners.

We collaborate closely with you to provide tailor-made solutions, maximizing engine performance and durability. We are committed to doing everything possible to support you and your business.

Find out more at:

Extended Warranty.
Everyday closer to your needs.

On top of the standard after sales support, it is possible to submit our Extended Warranty program, that covers all required FPT Industrial Genuine parts along with any repairs carried out by highly qualified technicians.

The FPT Industrial Extended Warranty guarantees:

- Customizable offer according to your needs.
- Peace of mind: Warranty costs of your FPT Industrial Product are known in advance.
- Performed by FPT Industrial qualified technicians.
- Optimal Product performance thanks to FPT Industrial Genuine Parts.

Our FPT Industrial Extended Warranty is made with the aim to be closer to you in your everyday activities. You can customize it according to your needs and extend it up to five years. To request a quotation please contact your FPT Industrial Dealer of reference.

	KM/HOURS COVERAGE	PERIMETERS	DURATION
	Max. limit depending on rating ☐ A1 rating up to Max 1.500 hrs ☐ A2 rating up to Max 5.000 hrs ☐ B2 rating up to Max 7.500 hrs ☐ C & D rating up to Max 10.000 hrs	☐ BRONZE Engine Major components only* ☐ SILVER Complete Engine	☐ 2 Years ☐ 3 Years ☐ 4 Years ☐ 5 Years

* List of major components: cylinder head; cylinder block; crankshaft; camshaft; connecting road; pistons; timing gears; flywheel; flywheel housing; oil pump; exhaust manifold; engine control unit.

Proactive Assistance.
Your direct connection to the Control Room.

Ensuring optimal engine performance and smooth operations has never been easier, thanks to our advanced connected services, MyFPT App and FPT Industrial Dongle connection. This device connects directly to your engine, allowing our Control Room to analyse your engine data in real-time. Through this advanced system, we can promptly detect any anomalies and identify areas for optimization.

Our dedicated team is always ready to provide prompt assitance and support. With this proactive approach, we can address any potential issues, ensuring that your engine performs at its best.

Experience the convenience of enhanced engine performance and the peace of mind that comes with our close monitoring and support.

- Health status monitoring.
- Maximize uptime thanks to the prompt activation of the FPT Industrial local Service Point, which is informed about the issue in advance even leaving its workshop.
- Engine diagnostics and repair based on FPT Industrial technical know-how and field experience.
- Monitor the performances of individual boat or fleet in real time, with periodic reports tailored to your mission.
- Technical cost of ownership (TCO) reduction by minimizing downtime.

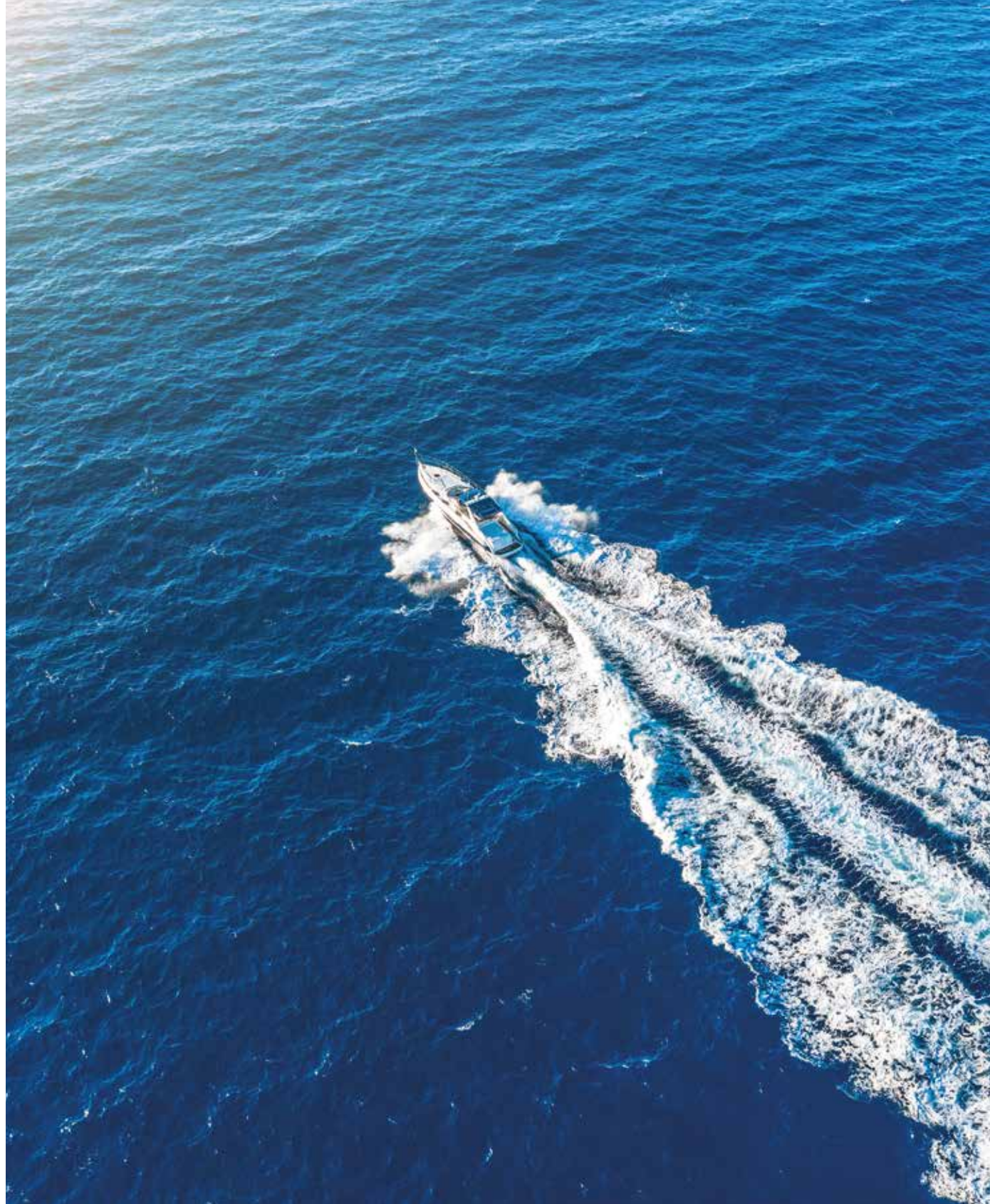
You need help?
We are here for you.

Because you never stop, neither do we. Our Customer Contact Centre is active 24/7, to assist you and to activate our local support network.

For any issue or need, our technical and expert support service is ready to help you anytime, anywhere.

If you need technical support or assistance on-site, you can always rely on a 70 dealers global network and over 900 service points.

Discover our global dealers' network:



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