

**CLASSIC SERIES**

# **DUALIS** THRUSTERS



**CMC**  
MARINE  
reinventing innovation

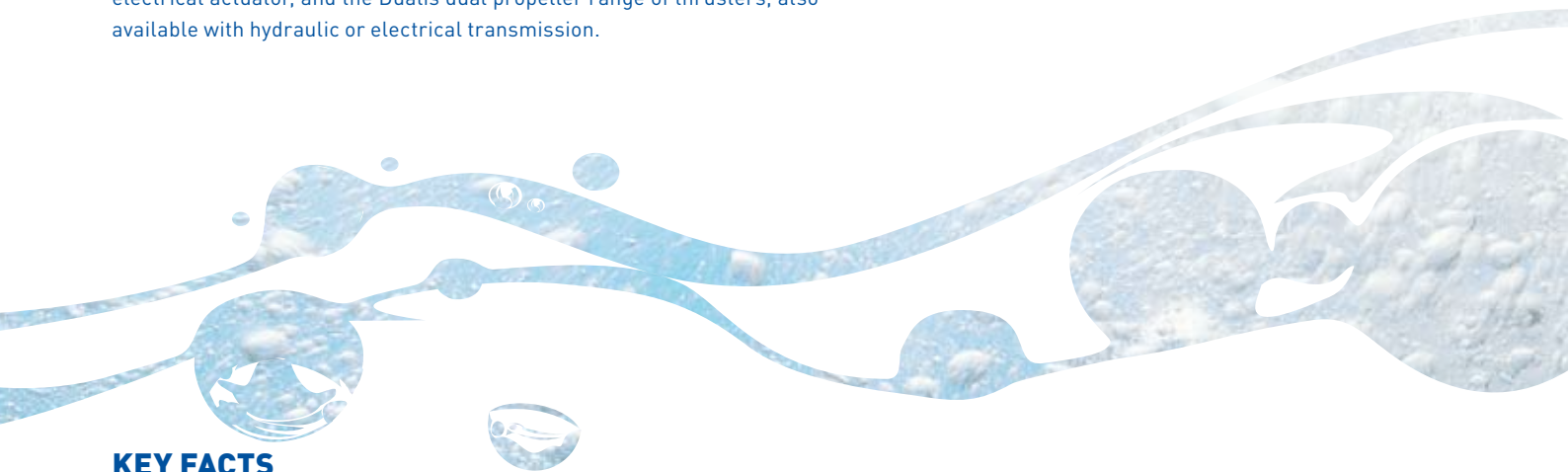
# CMC MARINE

## REINVENTING INNOVATION



CMC Marine, founded in 2005, designs, builds and markets stabilization fin systems and electrical or hydraulic thrusters. The over twenty years of experience in the industry of the founders provide the assurance that CMC Marine can offer a new generation of systems with the common trait being a meticulous design combined with the capability to guarantee each system at the design phase and then confirm the actual performance.

The CMC Marine product range is able to satisfy the needs of any shipyard and shipowner and includes the Stabilis range of stabilization systems, available with hydraulic actuator and, first and unique in the world, with an electrical actuator, and the Dualis dual propeller range of thrusters, also available with hydraulic or electrical transmission.



### KEY FACTS

<p><b>2005</b> CMC Marine was founded</p>	<p><b>2007</b> First 50 systems installed</p>	<p><b>2009</b> Launch of the patented Stabilis Electra</p>	<p><b>2011</b> Launch of the new range of thrusters</p>
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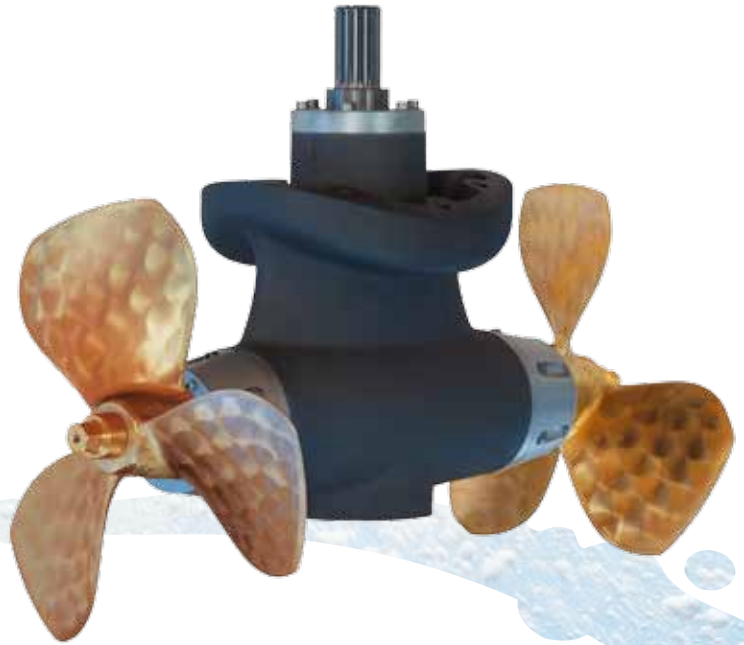
# MAXIMUM FLEXIBILITY, MAXIMUM ADAPTABILITY

CMC MARINE offers a wide range of Dualis thrusters, available with electrical or hydraulic transmission.

CMC's Dualis bow thrusters all feature dual counter-rotating propellers and are suitable for a wide range of uses with available power from 18 to 130 kW. They can be fitted to vessels with steel, aluminum or composite hulls starting from about 18-20 metres.

## Key features

- Easy installation
- Low noise level
- High efficiency
- Proven reliability
- Low hydro-dynamic resistance
- Wide power range
- Use of dual counter-rotating propellers
- Bow and stern mounting option
- High flexibility



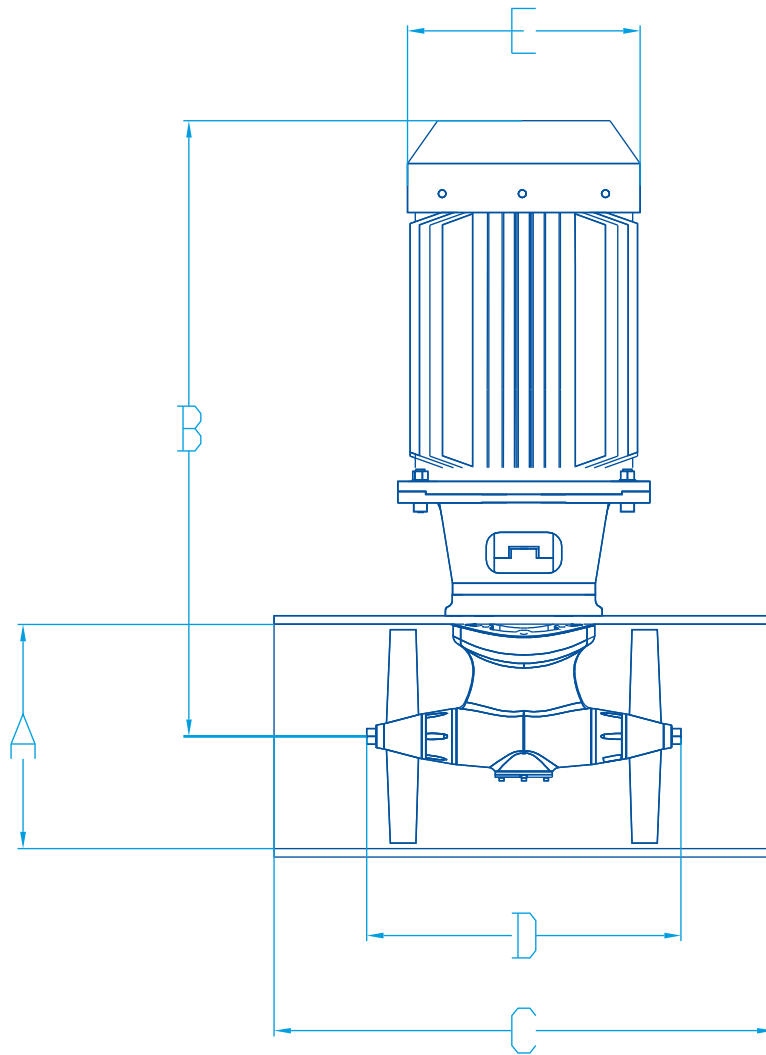
## DUALIS ELECTRA RANGE

Model	Electrical motor power (kW)	Tunnel internal diameter (mm)	Propeller diameter (mm)	Thrust (kgf)
BTM 20E-18	18	300	280	280
BTM 20E-22	22	300	280	350
BTM 30E-22	22	355	340	400
BTM 30E-30	30	355	340	470
BTM 40E-30	30	400	380	500
BTM 40E-37	37	400	380	560
BTM 50E-37	37	450	430	600
BTM 50E-45	45	450	430	700
BTM 75E-55	55	550	530	880
BTM 75E-75	75	550	530	1100
BTM 100E-90	90	655	630	1400
BTM 100E-110	110	655	630	1700
BTM 130E-130	130	655	630	2000

## DUALIS HYDRO RANGE

Model	Nominal power at pod (kW)	Hydraulic motor (cc)	Tunnel internal diameter (mm)	Propeller diameter (mm)	Thrust (kgf)
BTM 20H	20	32	300	280	300
BTM 30H	30	45	355	340	470
BTM 40H	37	56	400	380	560
BTM 50H	44	63	450	430	700
BTM 75H	55	90	550	530	880

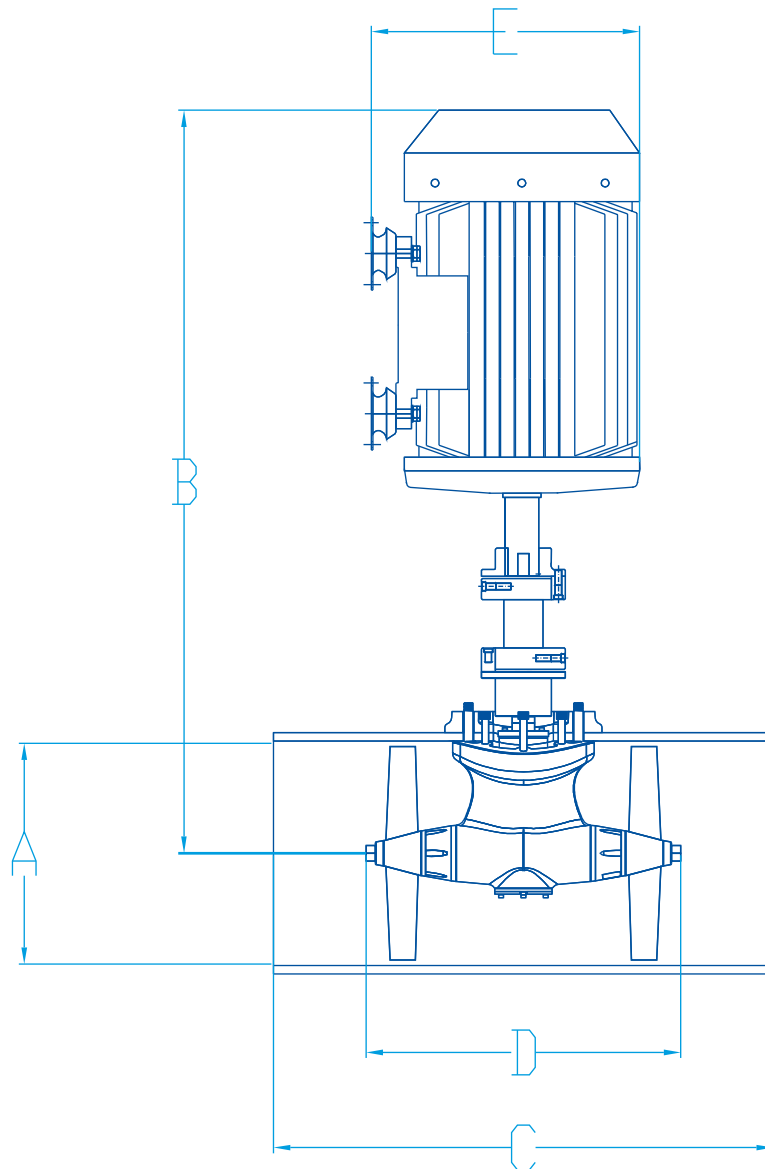
# ELECTRICAL THRUSTER VERTICAL CONFIGURATION



## DIMENSIONS (mm)

Model	A	B	C	D	E
BTM 20E-18	300	476	600-1000	545	340
BTM 30E-22	355	514	600-1200	545	380
BTM 40E-30	400	563	800-1500	561	420
BTM 50E-37	450	573	800-2000	561	420
BTM 75E-55	550	1370	900-2200	712	450
BTM 100E-90	655	1487	1000-2500	796	570
BTM 130E-130	655	1797	1000-2500	796	650

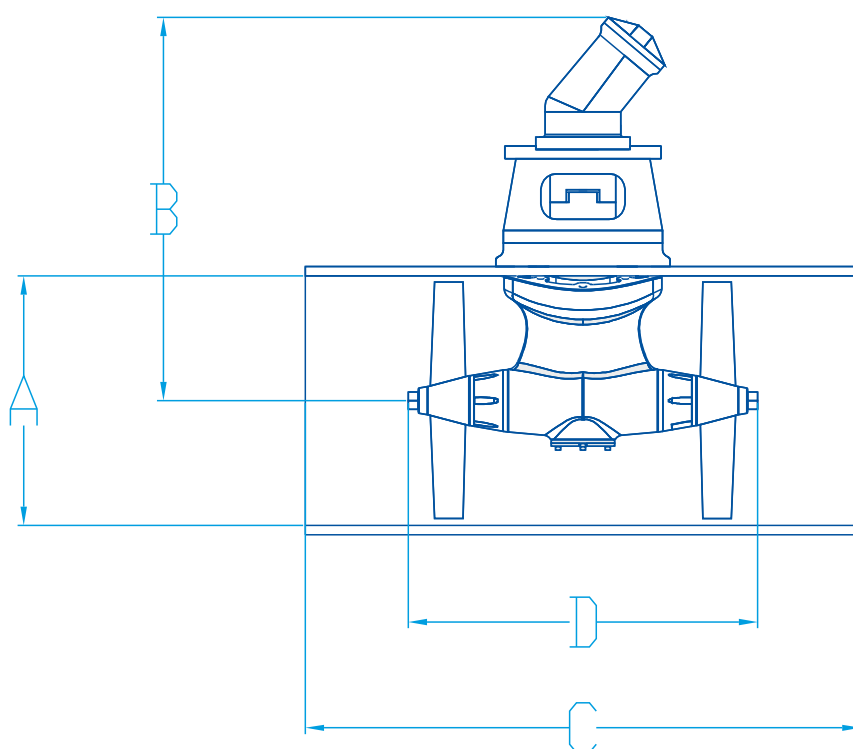
# ELECTRICAL THRUSTER HORIZONTAL CONFIGURATION



## DIMENSIONS (mm)

Model	A	B	C	D	E
BTM 20E-18	300	1214	600-1000	545	380
BTM 30E-22	355	1231	600-1200	545	420
BTM 40E-30	400	1324	800-1500	561	460
BTM 50E-37	450	1324	800-2000	561	460
BTM 75E-55	550	1331	900-2200	712	475
BTM 100E-90	655	1485	1000-2500	796	550
BTM 130E-130	655	1939	1000-2500	796	635

# HYDRAULIC THRUSTERS



## DIMENSIONS (mm)

Model	A	B	C	D
BTM 20H	300	396	600-1000	545
BTM 30H	355	410	600-1200	545
BTM 40H	400	451	800-1500	561
BTM 50H	450	451	800-2000	561
BTM 75H	550	783	900-2200	712

# ACCESSORIES

## CONTROL PANEL

CMC Marine offers two types of control panels:

- In the ON/OFF version, the thruster is operated by simply pressing the start button to make the system work. It is also available in a version with a bow and stern thruster control double joystick.
- The proportional version is made for a maximum control of thrust. The joystick can be used to progressively increase or reduce thrust. Thanks to the reduced size of the panel, it is also available in a version with a bow and stern thruster control double joystick.



## TUNNEL THRUSTER

Tunnels made of reinforced GRP or steel are available in several diameters and different standard lengths.



## PRODUCT RANGE



DUAL BOW & STERN THRUSTERS



STABILIS MECHANICA: HYDRAULIC FIN STABILIZERS



STABILIS ELECTRA: ELECTRICAL FIN STABILIZERS

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