EX Series external pod thrusters

Quick & easy retrofitting

EX SINGLE

EX DUAL

EX COMPACT

The externally mounted pod-based EX-series is a practical thruster solution for displacement and semi-planing boats between 6 and 18 m length, independently of hull form, hull material, propulsion and depth. These pod thrusters are an excellent choice where a tunnel thruster cannot be fitted, or as an extremely compact stern thruster.

The EX thrusters can be used in all types of vessels such as: sailing boats, catamarans, motorboats and houseboats made out out of steel, aluminum, wood or GRP. The flexible mounting at the extreme bow of the boat hull allows a deeper position underwater which creates an optimal leverage compared to conventional thrusters. EX thrusters can, therefore, move larger boats by using nominally less power than conventional thrusters.

Adapter
Made of hard rubber, optimizing the flow characteristics and ensuring tight and simple mounting.

Hollow shaft with cable routing
Made of steel with neoprene and rubber fittings to seal connection and perform as suspension as well.

Housing
Extreme robust, special coated aluminum housing. Seawater-resistant and redox-free.

3-Blade Vector-Propeller
Purpose-designed to ensure highest efficiency.

Electric motor
Purpose-designed and special built motors guarantee outstanding performance. Up to 5 minutes nonstop operating time.

EX Series thrusters	EX 35 S	EX 55 S	EX 75 S	EX 95 S	EX 110 D	EX 180 D
Thrust at 11.5V/23V* (kg • lbs)	25 • 55	40 • 88	53 • 117	67 • 148	80 • 176	130 • 264
Performance thrust* (kg • lbs)	35 • 77	55 • 121	74 • 163	95 • 210	110 • 243	180 • 397
Typical boat size (ft • m)	20' - 28' • 6 - 8.5	26' - 34' • 8 - 10.5	29' - 38' • 9 - 12	35' - 48' • 10 - 15	35' - 53' • 12 - 16	44' - 59' • 14 - 18
Tunnel I.D. (mm • in)	150 • 5.9''	150 • 5.9''	150 • 5.9''	150 • 5.9''	150 • 5.9''	150 • 5.9''
Propulsion system	Single	Single	Single	Single	Dual	Dual
Power at 11.5V/23V* (kw • Hp)	1.3 • 1.75	1,8 • 2.4	2,3 • 3.1	3,0 • 4,0	4,0 • 5.4	6,0 • 8.0
For DC system (V)	12	12	24	24	12	24
Weight (kg • lbs)	19,5 • 43	19,5 • 43	19,5 • 43	19,5 • 43	35 • 77	35 • 77
Rec. CCA (DIN** 11,5/23V)	170	225	150	190	250	375
Item Code 12V	**EX35S**	**EX55S**				
Item Code 24V			**EX75S**	**EX95S**	**EX110D**	**EX180D**

Construction benefits

Optimally streamlined design

Hydrodynamic shape, very short flow-channel and ideal placement reduce the water resistance to a fraction compared to conventional systems. There is no perceptible loss of speed.

Easy installation

Requires drilling of only three small holes to assemble, which are sealed tightly with a special rubber sealant. No fiberglass work is necessary.

Long duration

The external placement of the unit gives a more efficient water cooling and allows much longer duration per cycle of the unit than with traditional bow and stern thrusters.

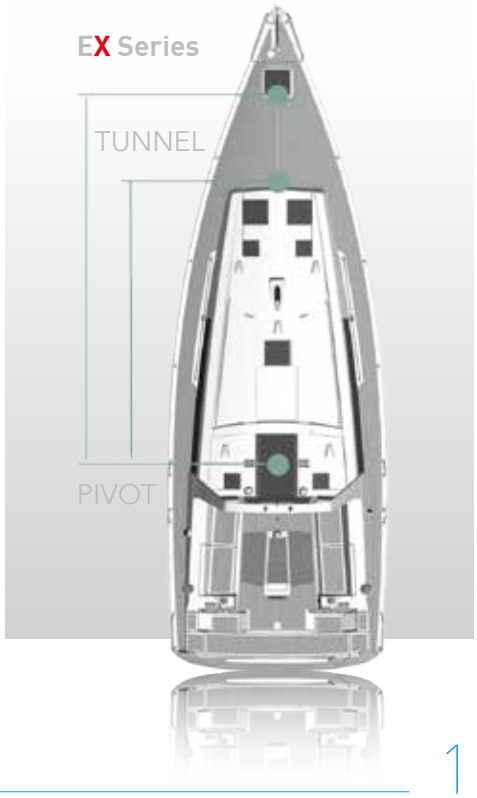
Optimal efficiency

Optimal efficiency results from a shorter transverse channel and ideal leverage which is created by deeper and more distant positioning away from the pivot point. Typically giving up to 40 % higher efficiency than with conventional systems.

The experienced performance can be as high as 1.4 times the actual thrust.

- Due to the installation position more towards the very bow of the boat (1 - 1.5 m) the leverage increases by a minimum of 20%.
- Long and small transverse tunnels reduce thrust, on an average length of 60 - 70 cm, around 20%.
- Installation depth is 15-20cm (minimum) deeper under water (= no cavitation)

The total of these three main performance benefits results in a higher efficiency of at least 40% compared to conventional thrusters! It is important to notice this, when comparing to tunnel thrusters.



EX 25 C	EX 40 C	EX 55 C	EX 70 C
25 • 55	40 • 88	53 • 117	67 • 148
-	-	-	-
18' - 26' • 5 - 8	24' - 34' • 7,5 - 10,5	28' - 36' • 8,5 - 11	32' - 42' • 9,5 - 13
150 • 5.9''	150 • 5.9''	150 • 5.9''	150 • 5.9''
Single	Single	Single	Single
1.3 • 1.75	1,8 • 2.4	2,3 • 3.1	3,0 • 4.0
12	12	24	24
12 • 26,5	12 • 26,5	12 • 26,5	12 • 26,5
170	225	150	190
EX25C	**EX40C**		
		EX55C	**EX70C**

*Note 2 - See page 35

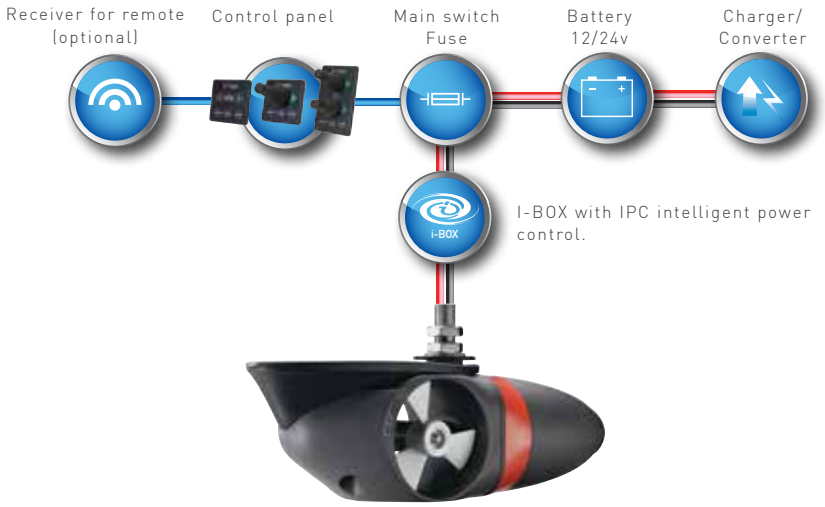
EX-Series accessories

Main components:

- EX thruster including iBox
- Main switch
- Fuse / holder
- Control panel
- Power cables
- Mounting adapter.

Optional:

- Remote control
- Automatic main switch
- Charger / voltage converter 12V - 24V



Basic installation kit with 2 mounting bolts, complete with sealing kit. (For EX COMPACT)

Item code: 50151

Installation kit with streamline rubber adapter, complete with sealing kit (not for EX COMPACT)

Item code: 50152

GRP Adapter for bow installation on V-shaped hulls.

Item code: 50155

Mooring protector made of stainless steel for EX-Series motor housing, incl. fixing kit.

Item code: 50154

Charger and voltage transformer 12-24V, 10 A, including charging voltage control (VST).

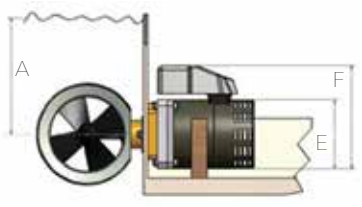
Item code: 50211

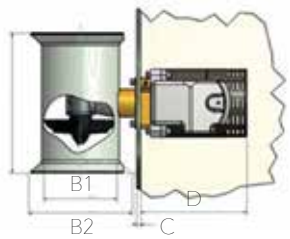
ES60 stern thruster

The ES60 is an excellent choice for boats that cannot fit a standard stern tunnel kit due to the shape of the boats transom. The unit is bolted from the inside and requires only a cut out hole of Ø70mm. Delivered as a complete kit with tunnel. Cowls can be delivered for effective redirecting of the waterflow if necessary.

EB Series thrusters*	ES 60/185S
Thrust at 10.5V/21V* (kg • lbs)	60 • 132
Thrust at 12V/24V* (kg • lbs)	-
Typical boat size (ft • m)	29' - 38' • 9 - 12
Tunnel I.D. (mm • in)	185 • 7,3''
Propulsion system	Single
Power at 10.5V/21V* (kw • Hp)	4,0 • 5.4
For DC system (V)	12
Weight (kg • lbs)	22 • 48.5
Rec. CCA (DIN** 12/24V)	500
Item Code 12V	**ES60/160S-12V**

Measurements (mm • in)	
A	300 • 11.8"
B1	185 • 7.3"
B2	250 • 9.8"
C	Max 55 • 2.15"
D	270 • 10.6"
E	130 • 5.1"
F	170 • 6.7"





*Note 1 - See page 35