



HYDRAULIC BOWTHRUSTER

Bow thrusters often produce a lot of noise. ABS Hydromarine has attempted to reduce this by means of a lubrication-free toothed belt drive that operates a bronze propeller consisting of blades with a large surface area. The result is a high level of thrust. The interests of the environment were also considered at the design stage. The hydraulic motor is located outside the tunnel and can be used for environmental friendly hydraulic oils.

- ➔ Superior quality
- ➔ Affordable cost
- ➔ MAUCOUR Bronze propeller
- ➔ Very low noise level
- ➔ Stainless steel body (optional)
- ➔ Sturdy toothed belt transmission

Options

- ➔ Proportional control
- ➔ Custom build stern tubes for stern thrusting
- ➔ Additional joystick control for the fly bridge or aft steering position
- ➔ Radiographic control
- ➔ Integration with other users, like winches, radar mast, steering, etc.

Components to Match

- ➔ Hydraulic Load Sensing pump
- ➔ Hydraulic reservoir with build up valve and equipment
- ➔ Dashboard with joystick and level alarm
- ➔ Electric cupboard.

Model	TH10	TH15	TH20	TH35	TH50
Hydraulic Engine	Gear	Gear	Gear	Piston	Piston
Oil Flow(L/min)	30	44	70	90	125
Pressure (Bar)	220	210	180	250	220
Engine capacity (kW)	10	15	20	35	50
Transmission					
Type	Type Toothed belt.				
Lubrication	None				
Paint	2k-Powder Coating				
Propeller					
Diameter (mm)	250	290	340	390	480
DAR	92%	90%	90%	90%	90%
Material	Bronze				
Thrust (kgf)	150	215	300	475	815



ELECTRIC BOWTHRUSTER 12/24 V DC

Model TDC7	
Electric engine	Traction motor
Voltage	24 V DC
Current (A)	486 A
Power (kW)	7 kW.
Transmission	
Type	Type Toothed belt.
Lubrication	None
Paint	2k-powder Coating
Propeller	
Diameter (mm)	180
DAR	70%
Material	Bronze
Thrust (kgf)	150

TO REDUCE THE NOISE OF THE BOW THRUSTERS, ABS HYDRO MARINE USES:

- ➔ A high-quality low-speed traction motor
- ➔ Sturdy toothed belt transmission.

STANDARD FEATURES ARE:

- ➔ High thrust thanks to a bronze propeller consisting of blades with a large surface area.
- ➔ Continuous running for four minutes without causing motor failure.
- ➔ The motor is designed not to overheat.
- ➔ Low current consumption thanks to deployment of motor manufactured in Europe.

OPTIONS

- ➔ Proportional control.
- ➔ Custom built stern tubes for stern thrusting.
- ➔ Additional joystick control for the flybridge or aft steering position.
- ➔ Radiographic control.



ELECTRIC 400 VAC BOW AND STERN THRUSTER

TO REDUCE THE NOISE OF THE BOW THRUSTERS, ABS HYDROMARINE USES:

- ➔ A low-speed induction motor
- ➔ Sturdy toothed belt transmission.

STANDARD FEATURES ARE:

- ➔ High thrust thanks to a MAUCOUR bronze propeller consisting of blades with a large surface area.
- ➔ Continuous running for five minutes without causing motor failure. The motor is designed not to overheat.
- ➔ Motor protected against dust and water jets in all

directions

OPTIONS

- ➔ Custom built stern tubes for stern thrusting.
- ➔ Additional joystick control for the flybridge or aft steering position
- ➔ Radiographic control (on/off control)

MATCHING COMPONENTS:

- ➔ Dashboard with proportional joystick
- ➔ Frequency converter (Proportional control) for soft start

Model	TAC8	TAC15	TAC23	TAC33	TAC45	TAC60	TAC75	TAC100
Electric engine				Induction Engine IP56				
Voltage	400 V AC (50 Hz) or 440 V AC (60Hz)							
RPM	1450 (50Hz) 1740 (60Hz)	1450 (50Hz) 1740 (60Hz)	1450 (50Hz) 1740 (60Hz)	1450 (50Hz) 1740 (60Hz)	1450 (50Hz) 1740 (60Hz)	1450 (50Hz) 1740 (60Hz)	980 (50Hz) 1170 (60Hz)	980 (50Hz) 1170 (60Hz)
Power (kW)	8	15	23	33	45	60	75	100
Transmission								
Type	Type Toothed belt.							
Lubrication	None							
Paint	2K- Powder Coating							
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Diameter (mm)	250	290	340	380	480	550	650	750
DAR	92%	90%	90%	90%	90%	75%	90%	90%
Material	Bronze							
Thrust (kgf)	150	215	300	475	815			

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