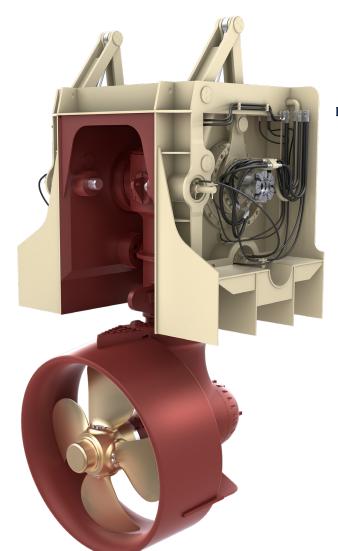


THE THRUSTER CONSISTS OF THE FOLLOWING MAIN COMPONENTS:

- Thruster unit with nozzle
- Steering gear with top bevel gear
- Hydraulic system
- Remote control system
- Drive motor system







KONGSBERG MARITIME AZIMUTH THRUSTERS

Swing-up azimuth thruster, type: TCNS 075/50-170 TCNS 100/66-220

Swing-up thruster

This thruster swings up into a housing in the hull when not in use. It can quickly be swung down about a horizontal axis into the operating position. In operation, it functions as an azimuth thruster and is designed to develop maximum bollard pull in the manoeuvring condition, or to provide positioning power for station keeping. The thruster has the added safety benefit of functioning as a "get-you-home" drive. A high thrust is developed in relation to input power, and this thrust can be vectored in any desired direction.

In the stowed position the thruster does not protrude below the vessel's keel/baseline, an important consideration for shallow water operations. Additional azimuth thrusters are often located at the lowest possible position in the hull due to space envelope restrictions, especially for equipment mounted at the bow, and thrusters need to be retracted into the hull when not in use.

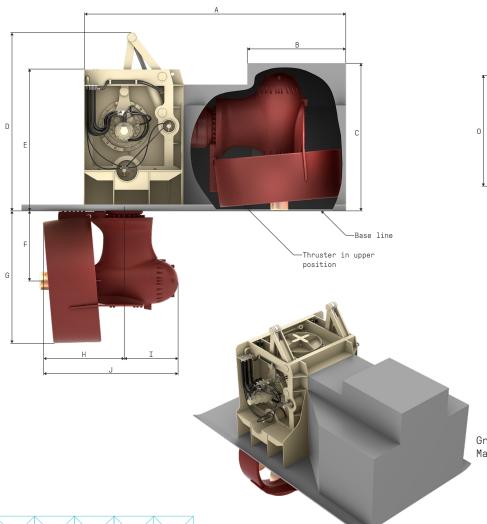
kongsberg.com 18.Azimuth-1 of 2-11.06.19

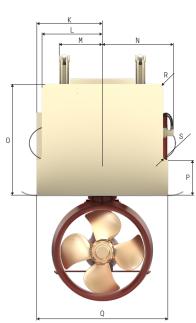
	TCNS075	TCNS100
Α	4365	5415
В	1750	2160
С	2440	3015
D	2859	3536
Е	2240	2770
F	1175	1476
G	2151	2764
Н	1310	1607
I	925	1200
J	2235	2807
K	1335	1450
L	1230	1350
М	882	989
N	1448	1765
0	2440	2770
Р	690	860
Q	2670	2900
R	R100	R100
S	R80	R100

TECHNICAL DATA FOR	TCNS/C 075	TCNS/C 100
Propeller diameter	1700mm	2200 mm
Max power continuous rating	750 - 1000 kW	1665 - 2000 kW
Nominal input speed	1500 - 2000 RPM	1500 - 1800 RPM
Max Output thrust	120 - 160 kN	265 - 320 kN
Propeller speed	253 - 337 RPM	214 - 257 RPM
Direction of rotation	Clockwise output	Clockwise output
Reduction Ratio	5.9:1 (two steps)	7:1 (two steps)
Weight lower gear house/nozzle	Approx. 4600 kg	Approx. 9600 kg
Weight upper gear house	Approx. 6500 kg	Approx. 9800 kg
Weight RRM hull module	Approx. 5100 kg	Approx. 9700 kg
Total weight (dry)	Approx. 16200 kg	Approx. 29100 kg
Versions	Both FP & CP	Both FP & CPP
Ice class	DNV Ice C	DnV Ice C
Dimension sketch drawing no	RRM300018782	RRM300019229

Applications

Vital dimensions only





Grey hull module is not Kongsberg Maritime delivery



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