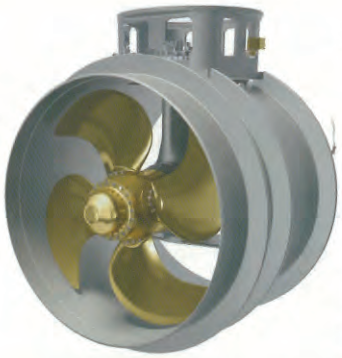
BRUNVOLL PRODUCT RANGE

STANDARD TUNNEL THRUSTERS

Brunvoll Standard Tunnel Thrusters are designed for the most demanding requirements according to North Sea offshore standards, and are used on all types of ships.



	Propeller diameter mm	Power range kW
FU 37	850	75 - 200
	1000	100 - 250
FU 45	1225	185 - 300
	1375	275 - 450
FU 63	1550	400 - 700
	1750	550 - 900
FU 74	2000	800 - 1400
FU 80	2250	1000 - 1500
FU 93	2500	1400 - 2200
FU 100	2750	1800 - 2500
FU 115	3000	2000 - 3500

RIM DRIVEN THRUSTER (RDT)

The RDT is electrically driven with a permanent magnet (PM) motor, where the motor windings are in the stator and where the rotor has a number of permanent magnets.

The RDT may be applied for various thruster configurations with a variable speed drive:

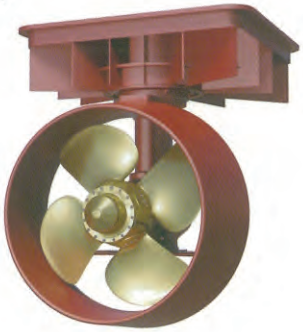
- Azimuth main or auxiliary propulsion thruster
- Combined tunnel and azimuth thruster
- Retractable azimuth thruster
- Tunnel thruster

Propeller diameter (mm)	800	1000	1250	1500	1750
Max Motor Power (kW)	200	300	450	600	900

PROPULSION AZIMUTH THRUSTERS

The Brunvoll Propulsion Azimuth Thrusters are built for use on heavy duty tugs and offshore vessels.

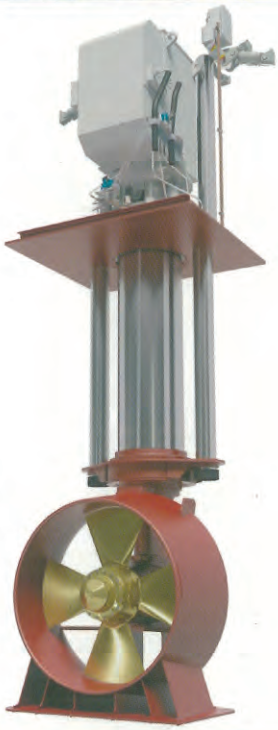
	Propeller diameter mm	Power range kW
AU 63	1650	400 - 800
AU 74	1900	800 - 1200
AU 80	2100	1000 - 1400
AU 93	2500	1500 - 1900
AU 100	2650	1600 - 2000
AU 115	3000	2000 - 3000



RETRACTABLE AZIMUTH THRUSTERS

The Brunvoll Retractable Azimuth Thrusters are used for dynamic positioning on offshore vessels, including shuttle tankers and as standby/ take home propulsion thrusters on merchant and naval ships. Available in Shock Resistant design.

A special version, the **Combi-Thruster**, works as a tunnel thruster in upper position, and as an azimuth thruster in lower position.



Propeller diameter mm		Power range kW
AR 63	1650	500 - 880
AR 74	1900	900 - 1200
AR 80	2100	1000 - 1500
AR 93	2400	1500 - 1900
AR 100	2600	1800 - 2200
AR 115	2900	2300 - 3000

LOW NOISE TUNNEL THRUSTERS

The Brunvoll Low Noise Tunnel Thrusters, Resiliently Mounted with full length double tunnel, result in a noise reduction of 11 to 15 dB(A).

This design is mainly used on cruise liners, super yachts and offshore vessels where extensive noise suppression is necessary. Available in Shock Resistant design.

	Propeller diameter mm	Power range kW
FU 37	1000	100 - 250
FU 45	1375	200 - 450
FU 63	1750	400 - 900
FU 74	2000	800 - 1400
FU 80	2250	1000 - 1500
FU 93	2500	1400 - 2200
FU 100	2750	1500 - 2300
FU 115	3000	2200 - 3500