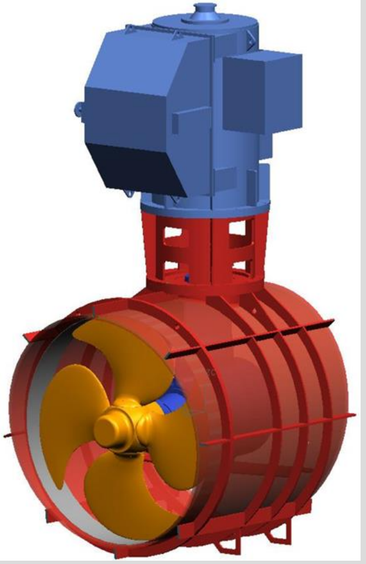


ROLLS ROYCE THRUSTERS FOR SALE

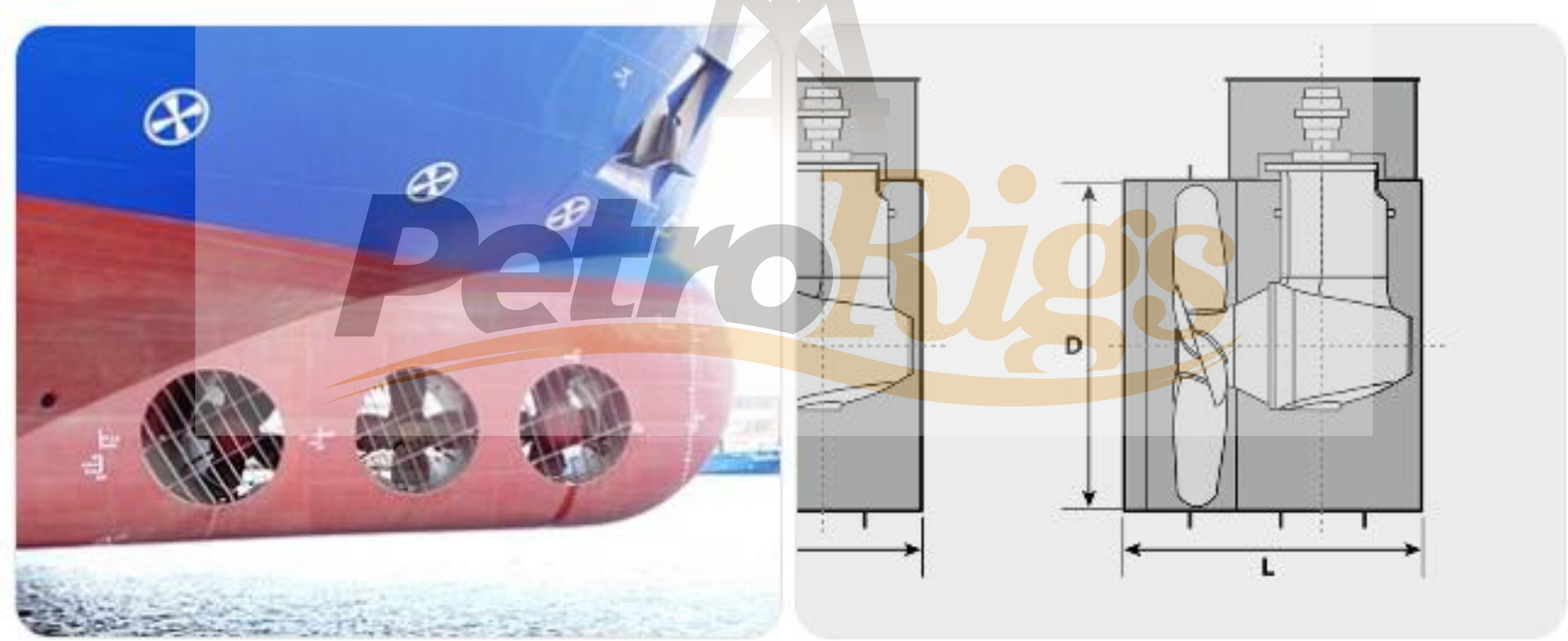
Type : Rolls Royce TT2400 DPD CP

Quantity available – 5 Units in Ex Stock

MADE IN NORWAY

APPLICATION

Tunnel thrusters are **bow or stern-mounted transverse propulsion units** installed inside a cylindrical tunnel running through a vessel's hull. They provide **sideways thrust** to improve low-speed maneuvering and positional control.



APPLICATION

Main applications

1. Berthing and unberthing

- Pushes the bow or stern sideways when docking.
- Reduces reliance on tugboats.
- Enables precise movements in tight harbors and marinas.

2. Low-speed maneuvering

- Improves handling in confined waters such as canals, rivers, and ports.
- Helps counter wind, current, and wave forces at low speed.

3. Dynamic positioning (DP) support

- Used alongside azimuth thrusters and main propellers.
- Provides lateral force for **station keeping** of offshore vessels.
- Common on DP1/DP2 vessels as auxiliary thrusters.

4. Offshore and marine operations

- Supply vessels, cable layers, survey ships, and construction vessels.
- Assists in holding position during loading, transfers, or near-structure work.

5. Ferries and passenger vessels

- Enables fast, repeatable docking at terminals.
- Improves schedule reliability in busy ports.

6. Large yachts and cruise ships

- Enhances comfort and safety during docking without external assistance.
- Allows controlled movements in crowded marinas.

TECHNICAL SPECIFICATION – Tunnel Thruster

Application info

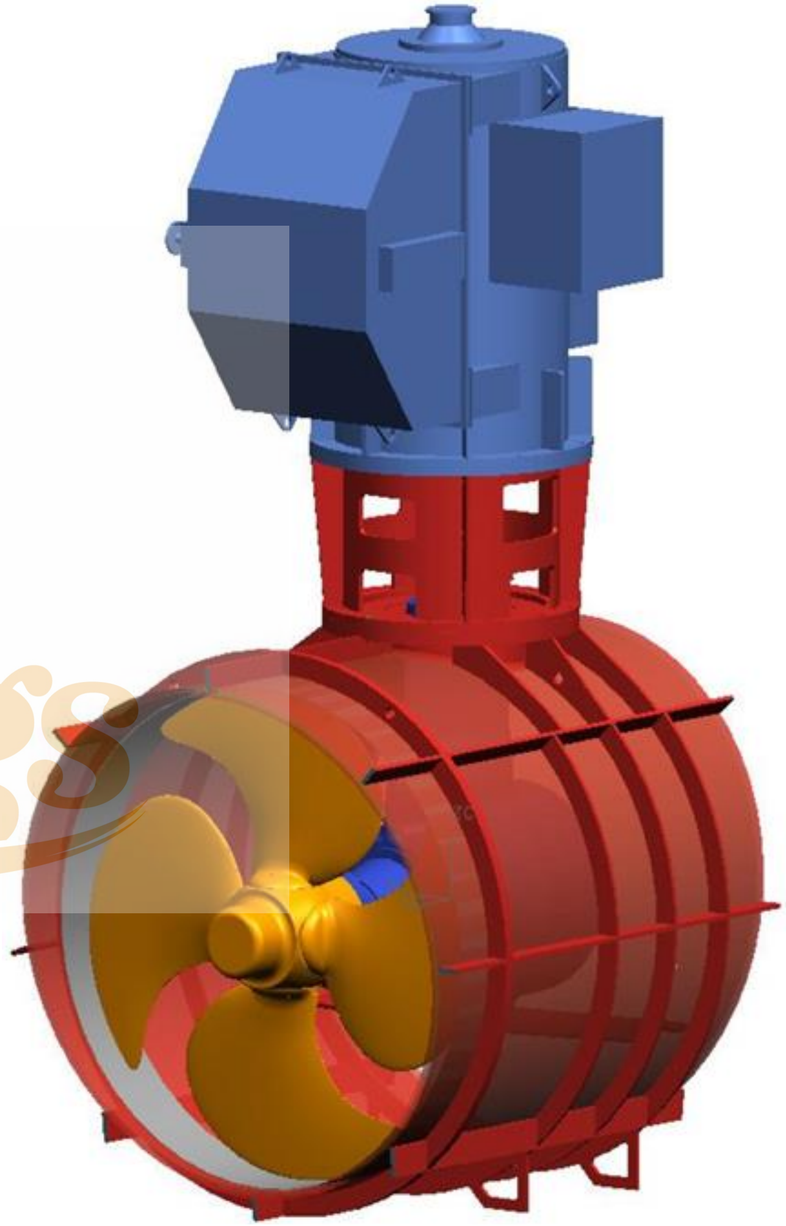
Type	TT2400 DPD CP
Application	Continuous running
Thruster operation	S1 Continous operation
Classification society	DNV Dynpos

Thruster/Tunnel

Propeller speed	211 rpm
Reduction gears	K141507/K141506 11/51
Predicted side-force (optimized *1)	**210 kN**
Propeller tip speed	26.5 m/s
Direction of propeller rotation	Clockwise
Propeller blade diameter	2400 mm
Propeller blade design	Skew design
Propeller type	Controllable pitch
Number of propeller blades	4
Propeller material, hub / blades	Ni.Al Bronze / Ni.Al.Bronze
Tunnel diameter, inner on existing tunnel	**2475 mm**

Hydraulic System

Pitching time full - starboard / port	15 Seconds (Approx.)
Oil pump flow	33.2 l/min
Cooling water flow (max 38°C)	200 l/min
Power supply for drain pump unit	1.5 kW / 3 x 380V 50Hz
Oil volume in thruster unit	620 Litres
Oil volume in gravity tank	180 Litres
Oil volume in seal tank	55 Litres
Oil volume in drain tank	40 Litres
Required oil volume for total installation.	895 Litres
Starter for servo pump	



PICTURES – TUNNEL THRUSTERS (5 units)

TECHNICAL SPECIFICATION & PICTURE – Drive Motor for Thrusters

Quantity : 5 units

Maker : ABB

Motor type : Electric motor

Model : ABB AMI 500L6A VAMH

Power : 1400 kW
Voltage : 6000 volt
Frequency : 50 Hz
Speed : 990 rpm

Classification : DNV

CERTIFICATE – Tunnel Thrusters

DET NORSKE VERITAS

Certificate No
ULS-13-191

CERTIFICATE FOR THRUSTER

Manufacturer:	Rolls-Royce Marine AS - Propulsion Ulsteinvik
Manufacturer's order No.:	RRM 300026459 / 12S001453-21
Purchaser:	
Purchaser's order No.:	
The product is intended for	
Yard:	Rauma-Repola Oy
Yard No.:	RR-17
Name of vessel:	"PEREGRINE I"
DNV Id. No.:	19172

THIS IS TO CERTIFY:

that the product: Tunnel Thruster

Type designation:	TT 2400 DP CP		
Thruster type:	☐ Azimuth	☒ Tunnel	☐ Other
Intended purpose:	☐ Propulsion	☐ Auxiliary	☒ Dynamic positioning system
Max. continuous input rating (kW):	1590		
Corresponding speed (rpm):	980		
Propeller speed (rpm):	211		
Ice class notation (if applicable):	N/A		
Serial No(s):	RRM 300026459		

Has been built and tested in accordance with the relevant requirements of:

DNV Rules for Classification: ☒ Ships ☐ HSLC ☐ Naval ☐ Offshore
☐ Other standards:

Remarks (if more than one line, use page 2):
This certificate does not include: Remote Control & Monitoring System. Electric Drive Motor. Tunnel

The product was marked: **NV ULS 13 191** On: **Propeller Hub & Blades. Gear Casing**

This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).

The undersigned manufacturer declares that the product/system has been built and tested in accordance with the specification/standard stated above and the conditions referred to in
Manufacturing Survey Arrangement No:
Quality System Certificate No:

For Manufacturer:

Place:

Date:

(name)
(title)

This Certificate is only valid when signed by a DNV surveyor.

For **Det Norske Veritas AS**

Digitally Signed By: Hansen, Kai Hermann
Location: DNV Ulsteinvik, Norway
Signing Date: 14.05.2013

Kai Hermann Hansen
Surveyor

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Technical data

Mounting of Thruster:	☐ Retractable	☒ Fixed	☐ Resilient
Servo system design pressure (bar):	100		
Azimuth Gear:			
Max. design input torque, pinion (Nm):			
Max. working input torque, pinion (Nm):			
Corresponding speed (rpm):			
Drive motor type:	☐ Hydraulic	☐ Electric	☐ Pneumatic
No. of drive motors:			
Motor design pressure (bar):			
Max. working pressure (bar):			
Hydraulic Power Packs:			
Number:			
Design pressure (bar):			
Max. working pressure (bar):			
El.motor rating:	kW at	rpm	

Operational limitations

Remarks:

Marking and certificate numbers for the different parts:

Propeller Blades	**: NV RIG-12-2063 / 2064 / 2065**
Propeller Hub	**: NV SKM-12-5243**
Hub Coupling	**: NV VEN-12-1825-2**
Propeller Shaft	**: NV VEN-12-2022-2**
Gear Wheel Set	**: NV ESN-09-22486**

Drawings with dates of approval and/or type approval certificate number:

Type Approval Certificate No.: M-12211

CERTIFICATE – Drive Motor for Thruster

DET NORSKE VERITAS

Certificate No
HEL-13-6307

CERTIFICATE FOR ELECTRIC MOTOR

Manufacturer:	**ABB Oy, Motors and Generators, Helsinki, Finland**
Manufacturer's order No.:	**4442HG200-204**
Purchaser:	**ABB AS, Norway**
Purchaser's order No.:	**NO25313**
The product is intended for	
Yard:	**Rauma-Repola Oy**
Yard No.:	**RR-17**
Name of vessel:	**"PEREGRINE I"**
DNV Id. No.:	**19172**
THIS IS TO CERTIFY:	
that the product:	**Electric motors for thruster**
Type designation:	**AMI 500L6A VAMH**
Serial No(s):	**4631598, -599, -600, -601, -602**
Power (kW):	**1400**
Voltage (V):	**6000**
Current (A):	**162**
Frequency (Hz):	**50**
Power factor (cos φ):	**0.87**
Speed (rpm):	**992**

Has been built and tested in accordance with the relevant requirements of:

DNV Rules for Classification: ☒ Ships ☐ HSLC ☐ Naval ☐ Offshore
☐ Other standards:

Remarks (if more than one line, use page 2):

The product was marked: **NV HEL13-6307** On: **On frame**

This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).

The undersigned manufacturer declares that the product/system has been built and tested in accordance with the specification/standard stated above and the conditions referred to in:
Manufacturing Survey Arrangement No: -
Quality System Certificate No: -

For Manufacturer:

Place: -

Date: -

-
-

This Certificate is only valid when signed by a DNV surveyor.

For **Det Norske Veritas AS**

Place: **Helsinki, Finland**

Date: **2012-03-04**

Digitally Signed By: Konttori, Jari
Location: DNV Helsinki, Finland
Signing Date: 2012-03-13

Jari Konttori
Senior Surveyor

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Certificate No
HEL-13-6307

Technical data:

Ingress protection (IP rating):	**IP 55**
Duty type:	**S1**
Insulation class:	**F**
Excitation voltage (V):	-
Excitation current (A):	-
Type of cooling:	**IC 611**
Max temperature of cooling medium (deg C):	
Max ambient temperature (deg C):	**45**
Type test performed on serial No, or reference t DNV Type Approval:	**Serial No. 4631598, on date 2013-03-04**

Remarks:

Marking and certificate numbers for the different parts:
Shaft: 19/3144, 19/3145, 37/2041, 37/2043, 37/2042

Drawings with dates of approval and/or type approval certificate number:
-

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