

Kort Thrusters

The Kort thruster range has evolved in response to customer demand.

Our reputation is for provision of impartial advice and effective propulsion packages which have grown to include our range of tunnelthrusters and small azimuthing propulsion units.

These are designed for hydraulic drive up to a maximum of 300HP input power.

Kort Range

Our thrusters are primarily designed for commercial displacement vessels but have been successfully fitted to planing craft and inland waterways pleasure craft.

Long service life and ease of maintenance have been key factors in design and development.

Models KT30-KT170 have the hydraulic motor fitted in the drive housing directly coupled to the propeller shaft which runs in taper roller bearings housed in the nose cone assembly. These are pre fitted and tested prior to delivery.

Models KT200-KT300 have a lower gearbox within the tunnel with the hydraulic motor plugged into the input housing inside the vessel. These larger units can also have diesel drive via a cardan shaft and right angle gearbox. A range of ratios is available to suit engine rating.

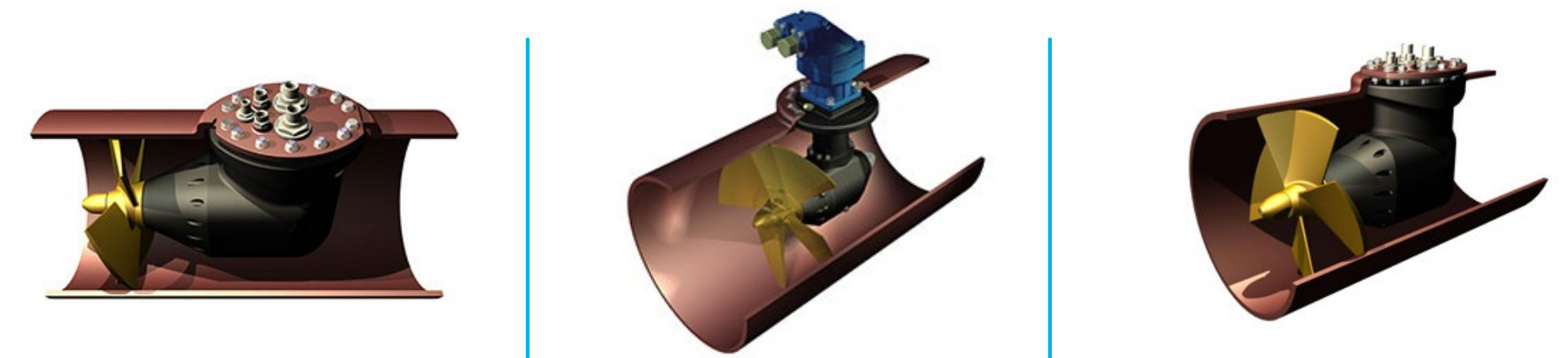
All models can be supplied to suit a range of system operating pressures and can be integrated with either closed loop or open loop hydraulic systems.

All units are supplied with a comprehensive instruction manual.

Our joint experience working with shipbuilders and repairers has influenced the design of our thrusters, resulting in lower installation costs and more reliable commissioning.

Hydraulic services and testing can be carried out on site in conjunction with Hercules Hydraulics.

Tunnels are supplied in standard lengths in mild steel, aluminum or grp with stainless steel ring in way of the propeller.



Wheelhouse Controls

Our intelligent wheelhouse controller gives big boat performance at small boat cost.

The Thruster Controller is a 24V DC unit, sealed to IP65 standards for wheelhouse or protected external locations only. Thrust control is via a proportional "put and stay" joystick. Each unit can be selected for duty or set to standby and monitors four alarms. The unit is pre-wired, tested and supplied with plugs and two metres of cable.

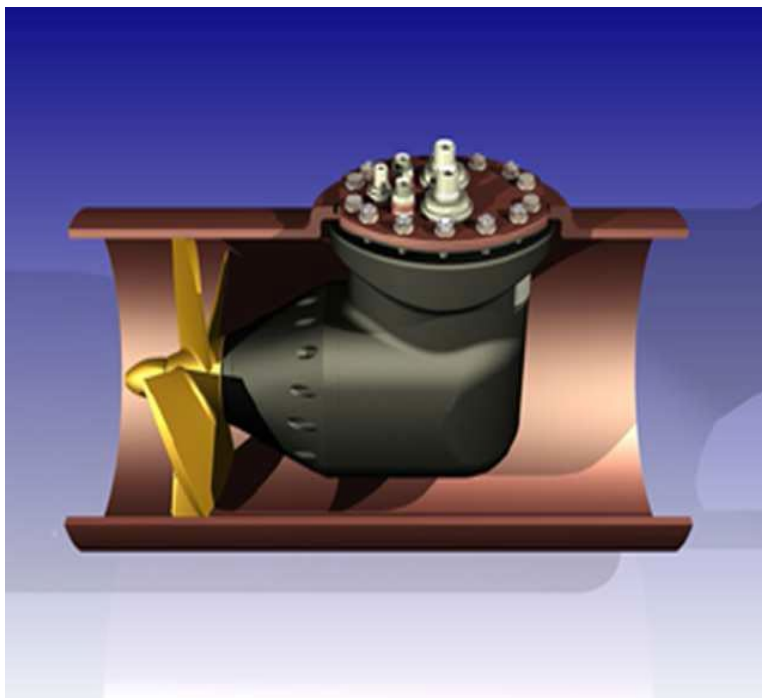
Incorporating a proportional control, warning lights and a test for alarm it can be integrated with an autopilot and either single or multi-station systems with full control can be supplied.



Installation & Maintenance

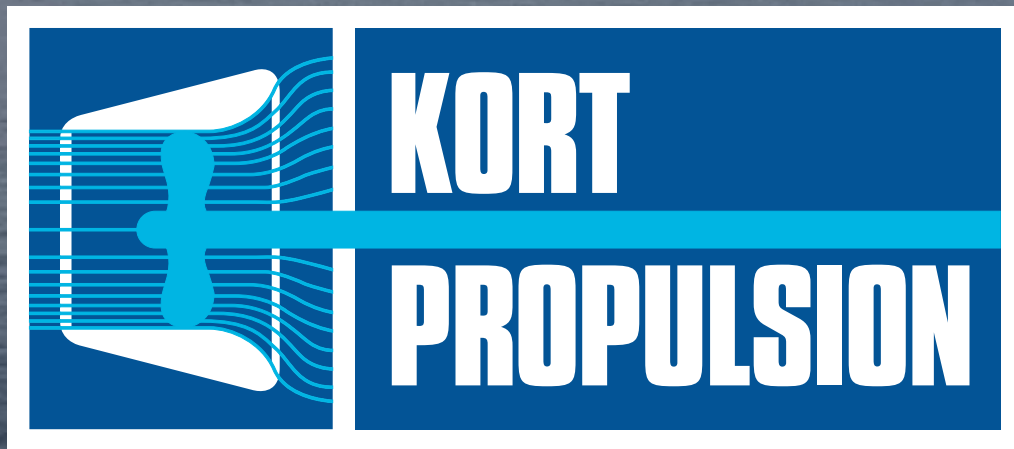
All units are supplied with a comprehensive instruction manual.

Experience working with shipbuilders and repairers has been a central factor in the design of Kort Thrusters resulting in lower installation costs and more reliable commissioning which can normally be carried out unsupervised.



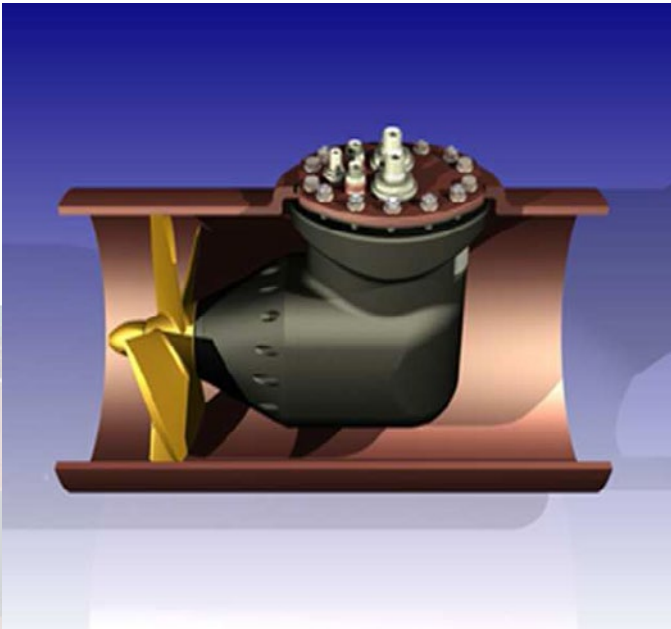
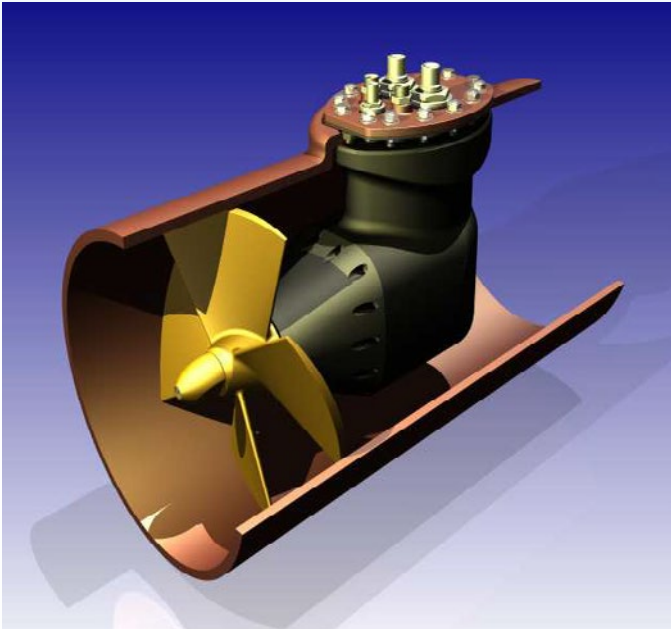
Hydraulic Tunnel Thrusters

Model	Propeller	Input (kW) (Pump/Motor)	Thrust (Kg)	Tunnel Length (mm)	OD of Tube (mm)
KT30	375	21/19	320	800	406
KT45	375	29/27	420	800	406
KT70	505	31/28	500	900	559
KT90	505	41/37	620	900	559
KT120	505	62/56	800	900	559
KT140	700	58/53	970	1250	762
KT170	700	96/88	1360	1250	762
KT200	750	115/105	1625	1500	813
KT250	750	187/170	2235	1500	813
KT300	750	240/223	2700	1500	813



KT30 Tunnel Thruster Datasheet

Model	KT30	KT30L
Drive Motor	VOAC F12-30	VOAC F12-40
System Pressure - typical	280 bar	210 bar
Motor Pressure – nominal	255 bar	185 bar
Flow - nominal	44 ltr/min	58.4 ltr/min
Pump/Motor Power	21/19 kW	20.4/18 kW
Typical Pump for full thrust	60cc@800rpm	75cc@800rpm
Propeller Diameter	375 mm	375 mm
Propeller RPM	1460	1460
Nominal Thrust	320 Kg	320 Kg
Tunnel	Grade A steel, 12.7mm thickness. Aluminium or GRP optional	
Wear Ring	Not required on this size of unit	
Drive Housing	SG Iron. Bronze or Aluminium optional extra	
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied	
Propeller	Four blades, Manganese Bronze. Aluminium optional extra	

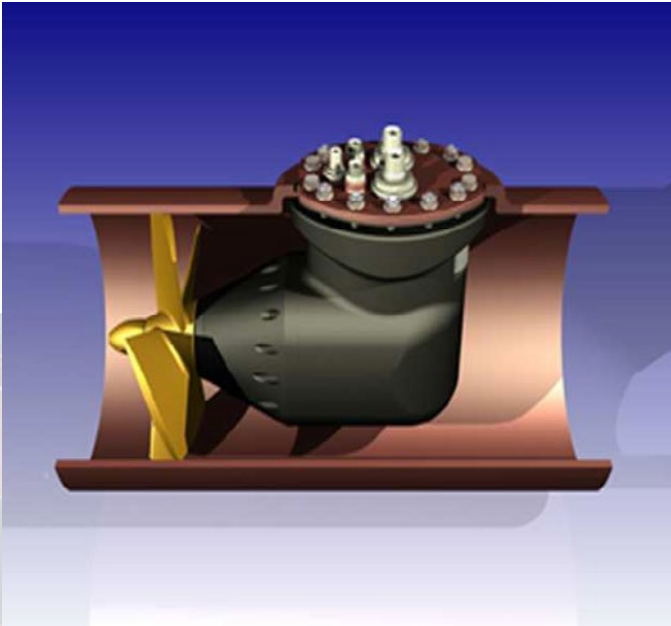
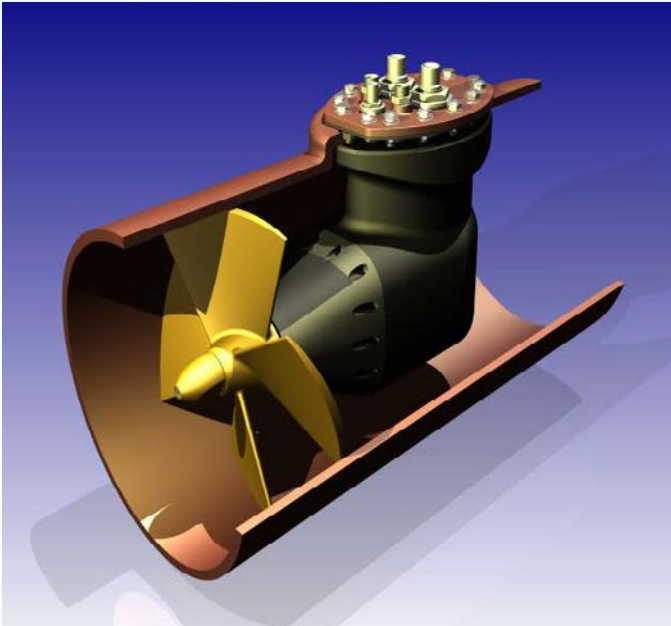


KT30 Tunnel Thruster

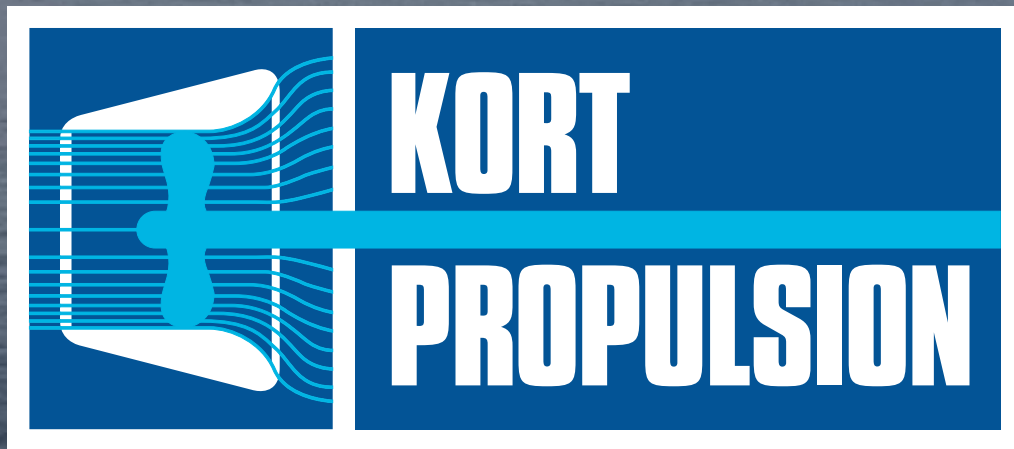


KT45 Tunnel Thruster Datasheet

Model	KT45	KT45L
Drive Motor	VOAC F12-40	VOAC F12-60
System Pressure - typical	280 bar	210 bar
Motor Pressure – nominal	255 bar	185 bar
Flow - nominal	63 ltr/min	94.5 ltr/min
Pump/Motor Power	29/27 kW	33/29 kW
Typical Pump for full thrust	75cc@900rpm	100cc@1000rpm
Propeller Diameter	375 mm	375 mm
Propeller RPM	1575	1575
Nominal Thrust	420 Kg	420 Kg
Tunnel	Grade A steel, 12.7mm thickness. Aluminium or GRP optional extra	
Wear Ring	Not required on this size of unit	
Drive Housing	SG Iron. Bronze or Aluminium optional extra	
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied	
Propeller	Four blades, Manganese Bronze. Aluminium optional extra	

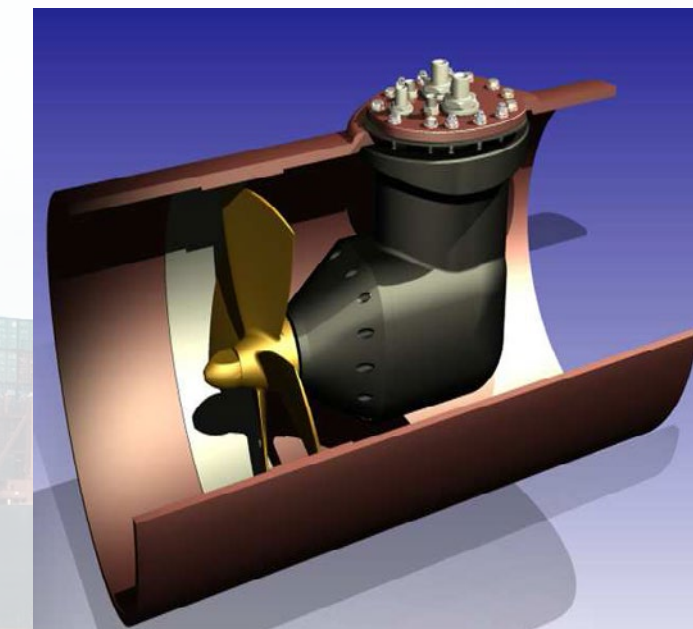
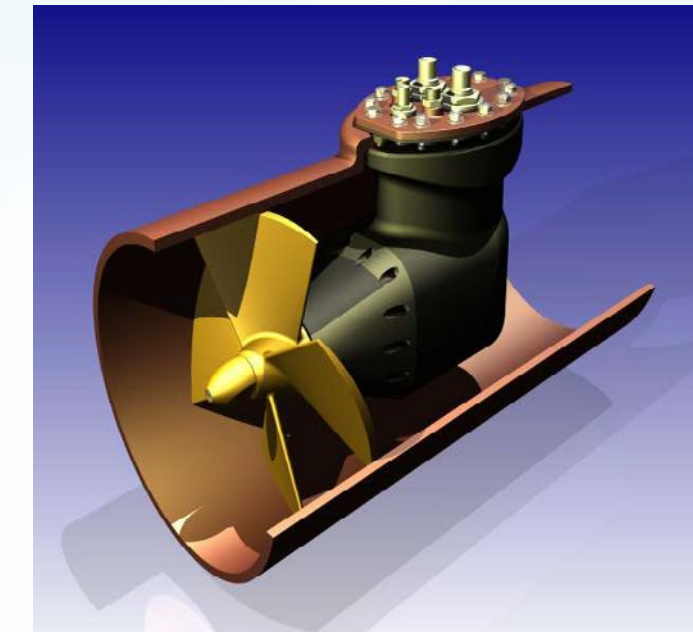


KT45 Tunnel Thruster



KT70 Tunnel Thruster Datasheet

Model	KT70	KT70L
Drive Motor	VOAC F12-60	VOAC F12-80
System Pressure - typical	280 bar	210 bar
Motor Pressure – nominal	255 bar	185 bar
Flow - nominal	66 ltr/min	88 ltr/min
Pump/Motor Power	31/28 kW	31/27 kW
Typical Pump for full thrust	75cc@900rpm	100cc@1000rpm
Propeller Diameter	505 mm	505 mm
Propeller RPM	1100	1100
Nominal Thrust	500 Kg	500 Kg
Tunnel	Grade A steel, 16mm thickness. Aluminium or GRP optional extra	
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick	
Drive Housing	SG Iron. Bronze or Aluminium optional extra	
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied	
Propeller	Four blades, Manganese Bronze. Aluminium optional extra	

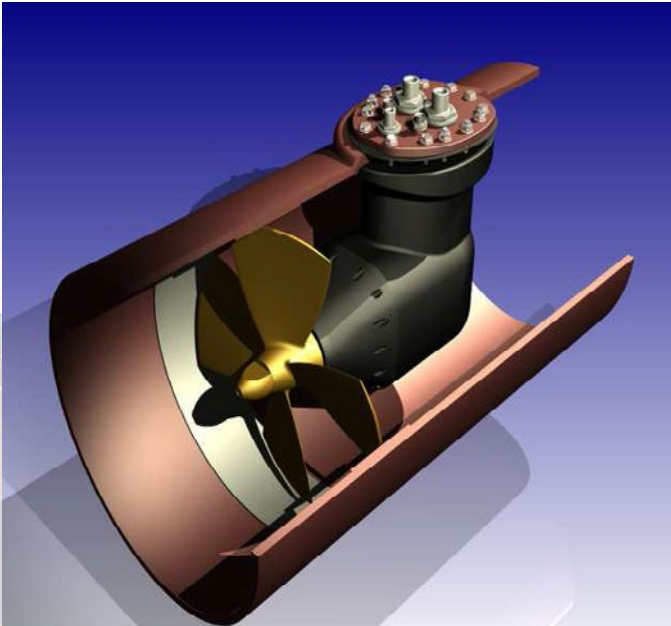
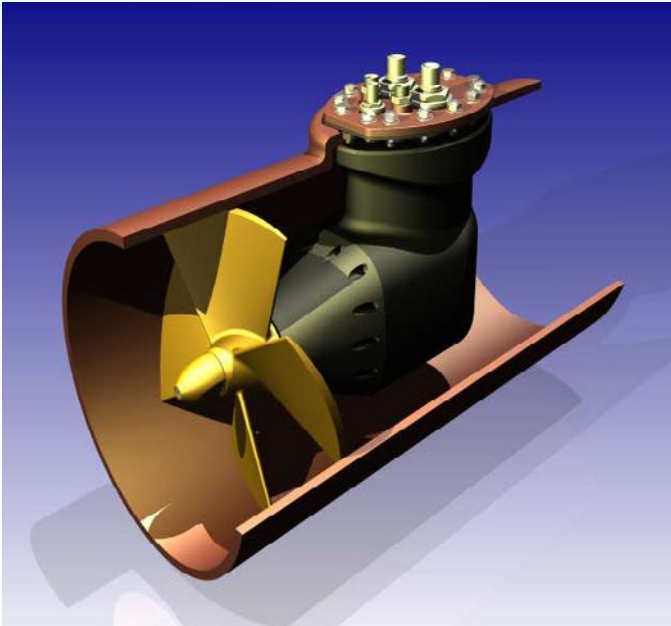


KT70 Tunnel Thruster

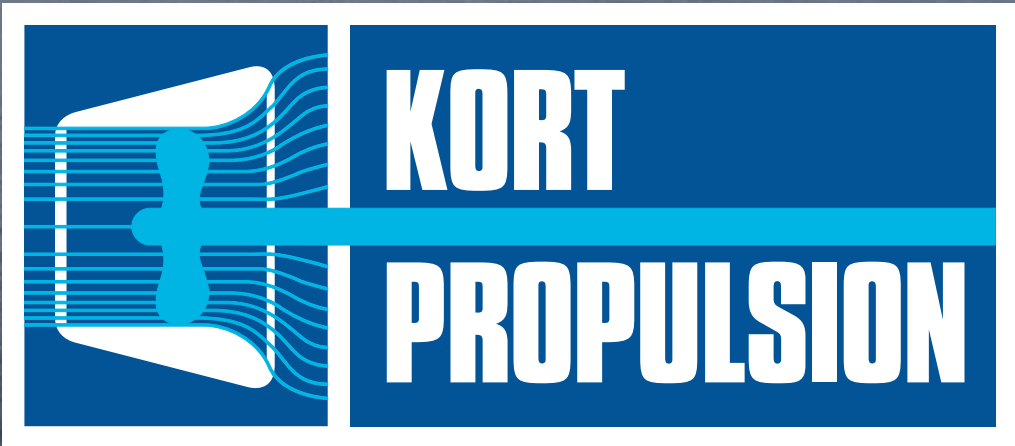


KT90 Tunnel Thruster Datasheet

Model	KT90	KT70L
Drive Motor	VOAC F12-80	VOAC F12-100
System Pressure - typical	280 bar	210 bar
Motor Pressure – nominal	255 bar	185 bar
Flow - nominal	88 ltr/min	121 ltr/min
Pump/Motor Power	41/37 kW	42/37 kW
Typical Pump for full thrust	100cc@1000rpm	130cc@950rpm
Propeller Diameter	505 mm	505 mm
Propeller RPM	1100	1100
Nominal Thrust	620 Kg	620 Kg
Tunnel	Grade A steel, 16mm thickness. Aluminium or GRP optional extra	
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick	
Drive Housing	SG Iron. Bronze or Aluminium optional extra	
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied	
Propeller	Four blades, Manganese Bronze. Aluminium optional extra	

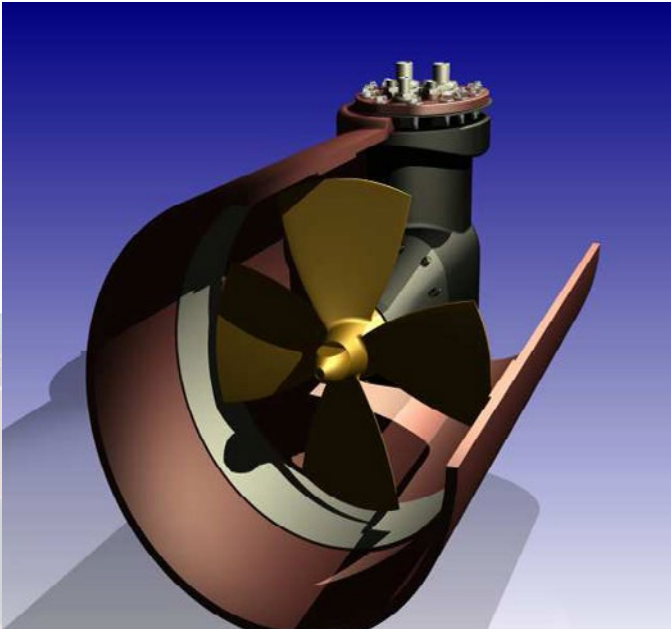
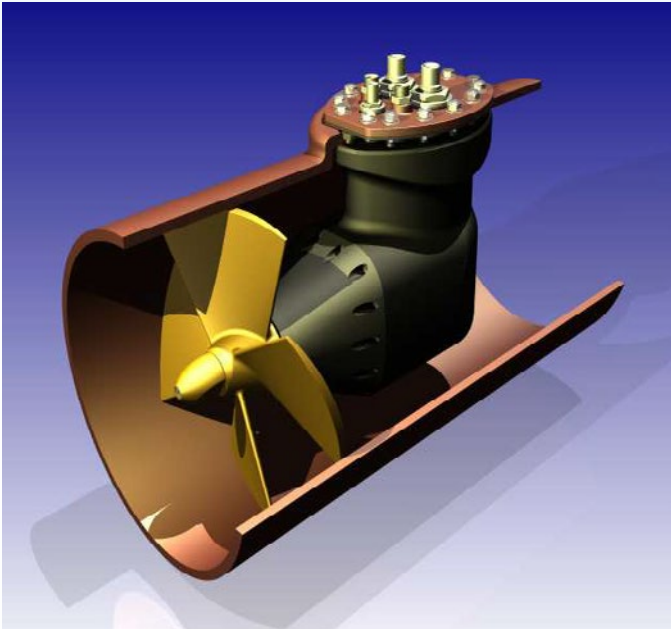


KT90 Tunnel Thruster



KT120 Tunnel Thruster Datasheet

Model	KT120
Drive Motor	VOAC F12-110
System Pressure - typical	280 bar
Motor Pressure – nominal	255 bar
Flow - nominal	132 litres/min
Pump/Motor Power	62/56kW
Typical Pump for full thrust	130cc@1000rpm
Propeller Diameter	505 mm
Propeller RPM	1200
Nominal Thrust	800 Kg
Tunnel	Grade A steel, 16mm thickness. Aluminium or GRP optional extra
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick
Drive Housing	SG Iron, Bronze or Aluminium optional extra
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied
Propeller	Four blades, Manganese Bronze. Aluminium optional extra

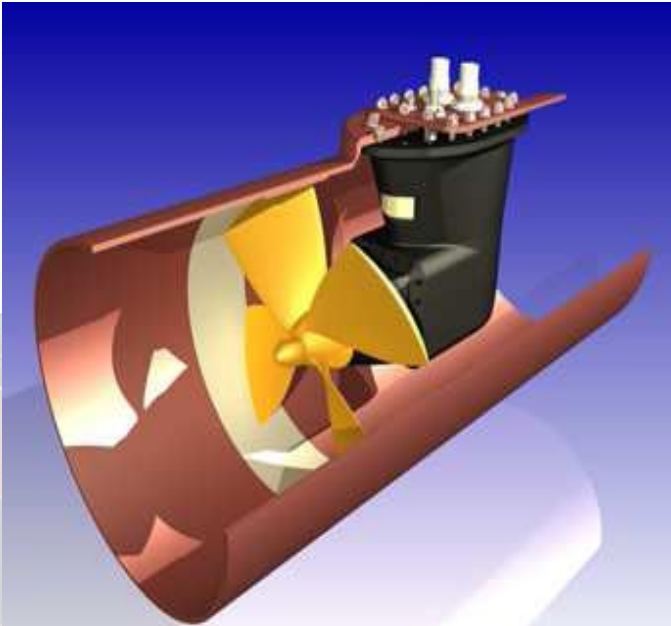
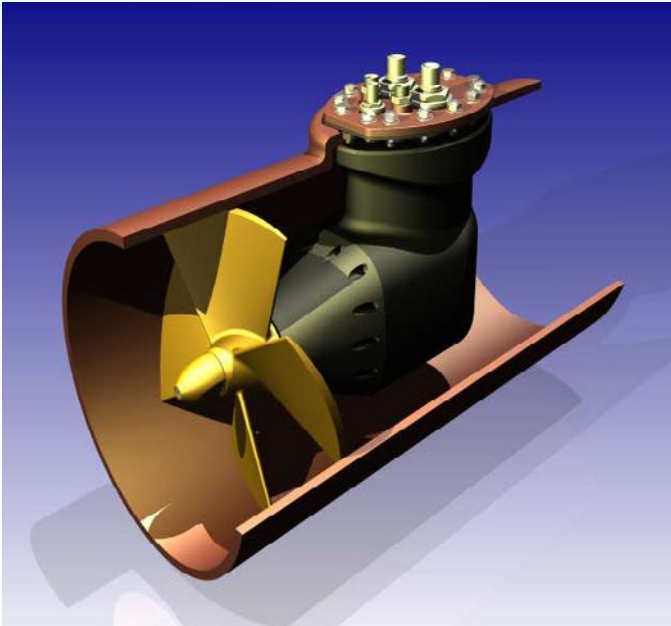


KT120 Tunnel Thruster

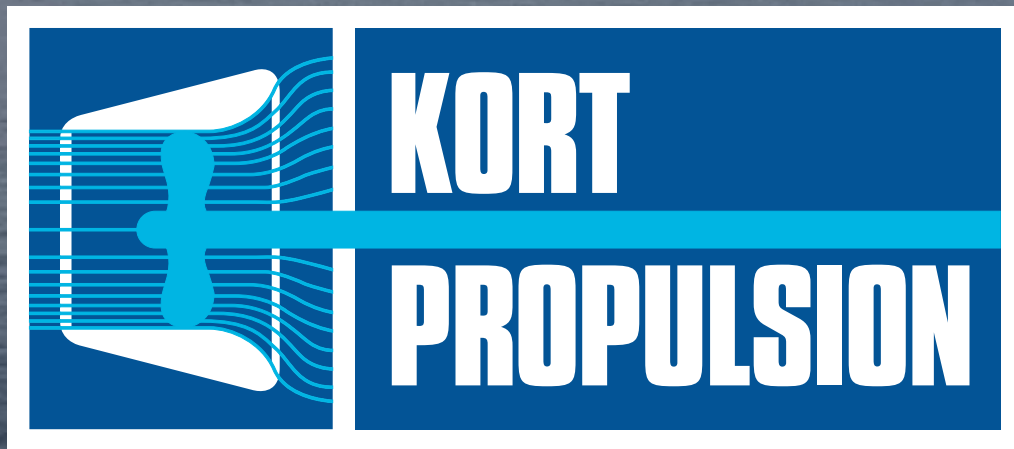


KT140 Tunnel Thruster Datasheet

Model	KT140	KT140 L
Drive Motor	VOAC F11-150	VOAC F11-150
System Pressure - typical	280 bar	210 bar
Motor Pressure – nominal	255 bar	185 bar
Flow - nominal	124 ltr/min	124 ltr/min
Pump/Motor Power	58/53kW	43/38kW
Typical Pump for full thrust	130cc@1000rpm	130cc@1000rpm
Propeller Diameter	700 mm	700 mm
Propeller RPM	825	825
Nominal Thrust	970 Kg	830 Kg
Tunnel	Grade A steel, 17.5mm thickness. Aluminium or GRP optional extra	
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick	
Drive Housing	SG Iron. Bronze or Aluminium optional extra	
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied	
Propeller	Four blades, Manganese Bronze. Aluminium optional extra	

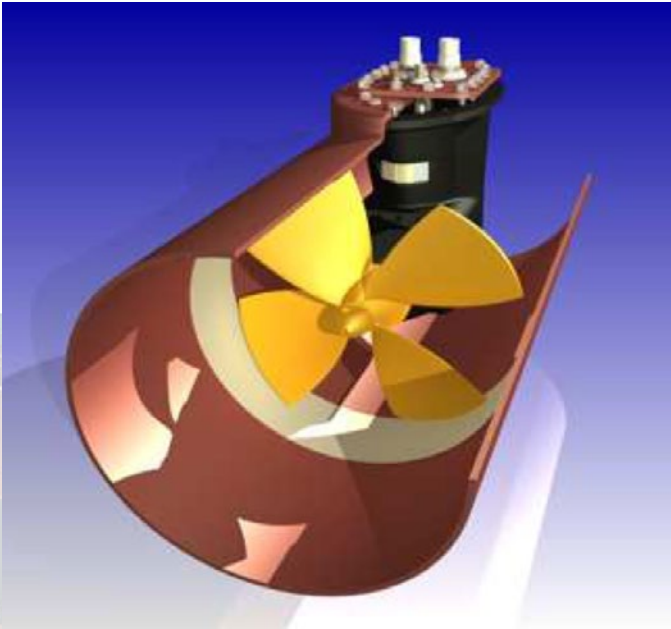
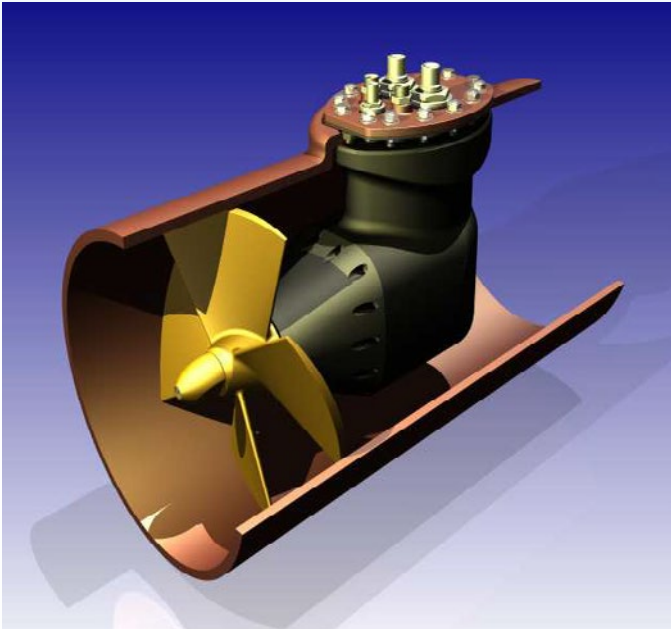


KT140 Tunnel Thruster



KT170 Tunnel Thruster Datasheet

Model	KT170	KT170L
Drive Motor	VOAC F11-250	VOAC F11-250
System Pressure - typical	280 bar	210 bar
Motor Pressure – nominal	255 bar	185 bar
Flow - nominal	206 ltr/min	206 ltr/min
Pump/Motor Power	96/88kW	72/64kW
Typical Pump for full thrust	160cc@1350rpm	160cc@1350rpm
Propeller Diameter	700 mm	700 mm
Propeller RPM	825	825
Nominal Thrust	1360 Kg	1100 Kg
Tunnel	Grade A steel, 17.5mm thickness. Aluminium or GRP optional extra	
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick	
Drive Housing	SG Iron. Bronze or Aluminium optional extra	
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied	
Propeller	Four blades, Manganese Bronze. Aluminium optional extra	

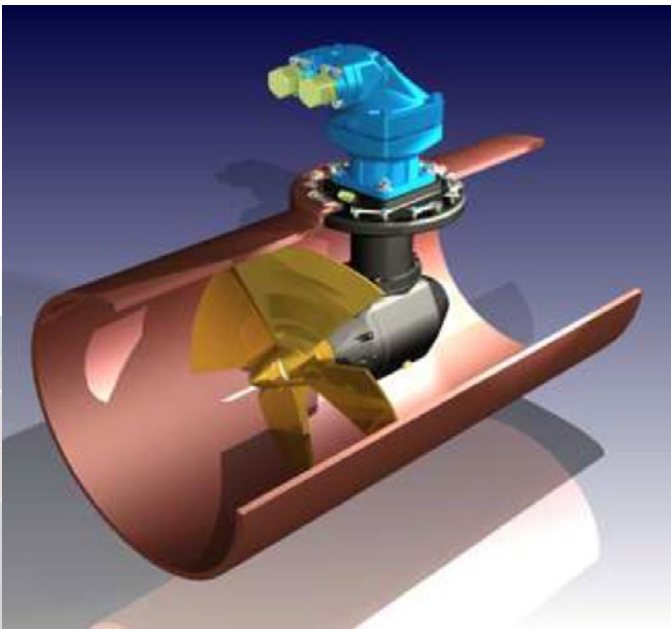
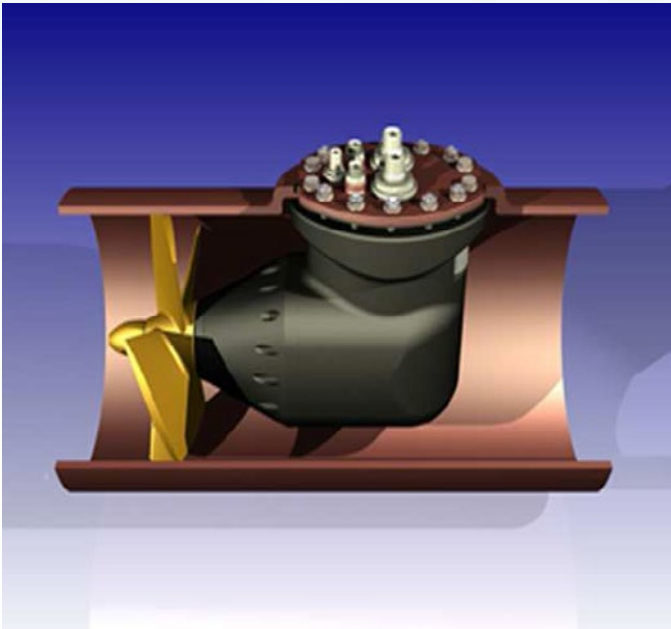


KT170 Tunnel Thruster



KT200 Tunnel Thruster Datasheet

Model	KT200
Drive Motor	VOAC F11-150
System Pressure - typical	280 bar
Motor Pressure – nominal	255 bar
Flow - nominal	247.5 litres/min
Pump/Motor Power	115/105kW
Typical Pump for full thrust	160cc@1500rpm
Propeller Diameter	750 mm
Propeller RPM	825
Nominal Thrust	1625 Kg
Tunnel	Grade A steel, 22mm thickness. Aluminium or GRP optional extra
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick
Drive Housing	SG Iron, Bronze or Aluminium optional extra
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied
Propeller	Four blades, Manganese Bronze. Aluminium optional extra

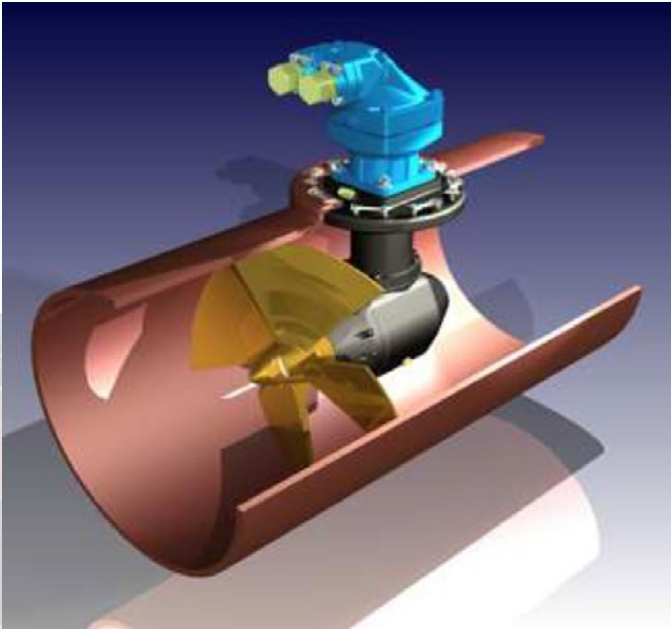
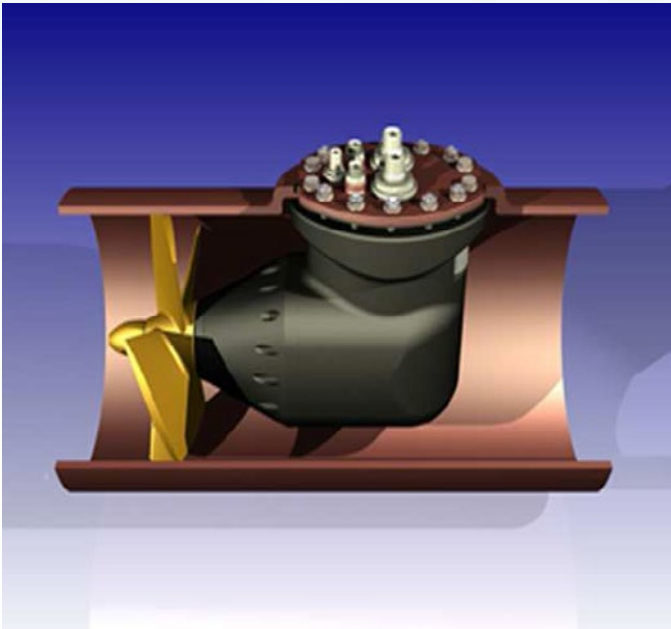


KT200 Tunnel Thruster

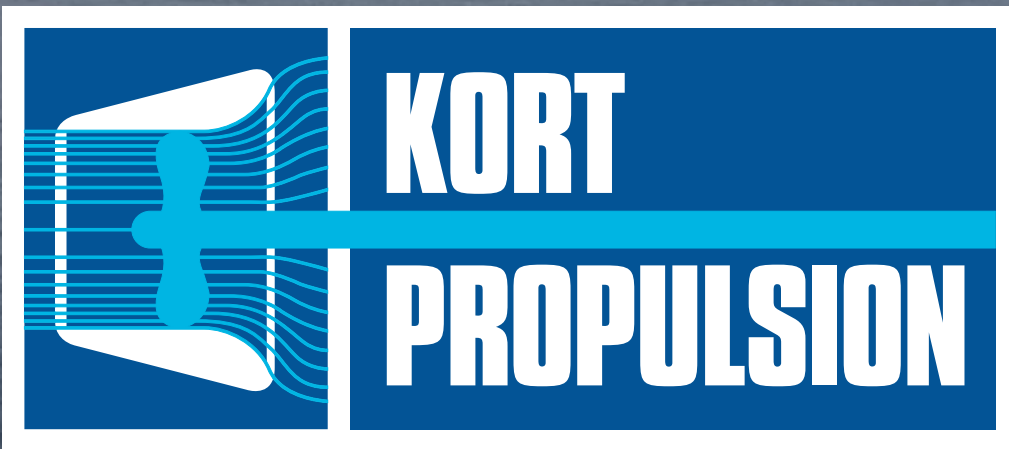


KT200 Tunnel Thruster Datasheet

Model	KT200
Drive Motor	VOAC F11-150
System Pressure - typical	280 bar
Motor Pressure – nominal	255 bar
Flow - nominal	247.5 litres/min
Pump/Motor Power	115/105kW
Typical Pump for full thrust	160cc@1500rpm
Propeller Diameter	750 mm
Propeller RPM	825
Nominal Thrust	1625 Kg
Tunnel	Grade A steel, 22mm thickness. Aluminium or GRP optional extra
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick
Drive Housing	SG Iron, Bronze or Aluminium optional extra
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied
Propeller	Four blades, Manganese Bronze. Aluminium optional extra

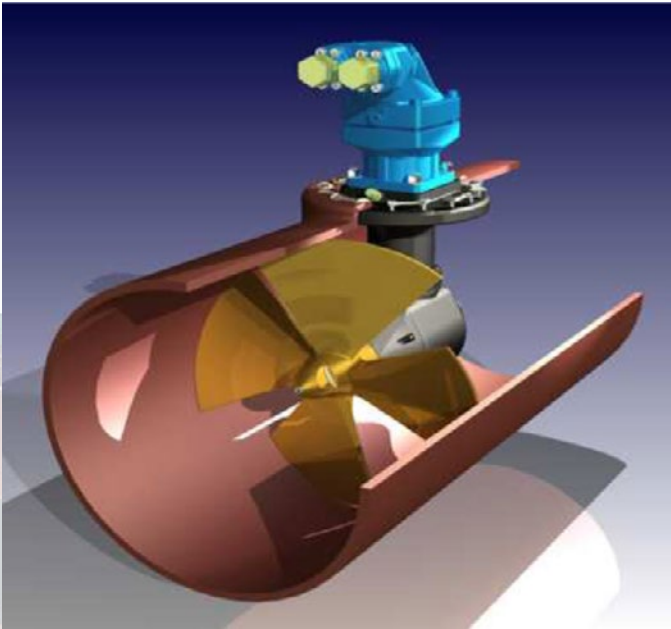
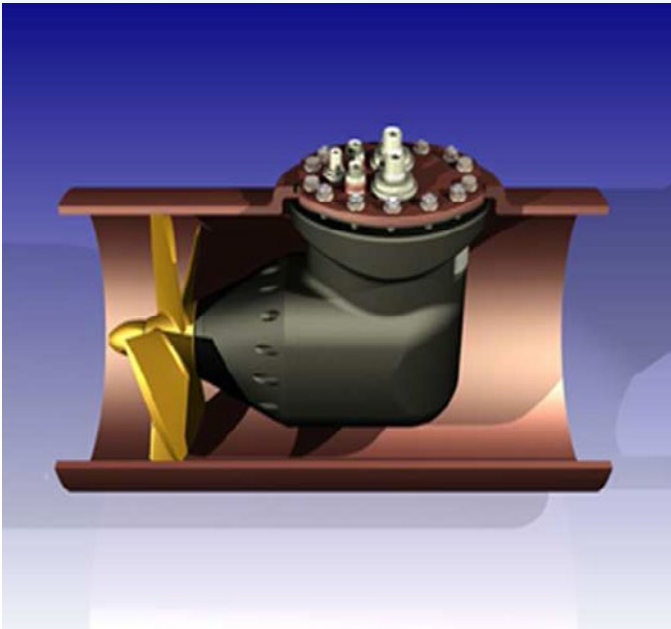


KT200 Tunnel Thruster



KT250 Tunnel Thruster Datasheet

Model	KT250
Drive Motor	VOAC F11-250
System Pressure - typical	280 bar
Motor Pressure – nominal	255 bar
Flow - nominal	400 ltr/min
Pump/Motor Power	187/170 kW
Typical Pump for full thrust	270cc@1550rpm
Propeller Diameter	750 mm
Propeller RPM	825
Nominal Thrust	2235 Kg
Tunnel	Grade A steel, 22mm thickness. Aluminium or GRP optional extra
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick
Drive Housing	SG Iron, Bronze or Aluminium optional extra
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied
Propeller	Four blades, Manganese Bronze. Aluminium optional extra

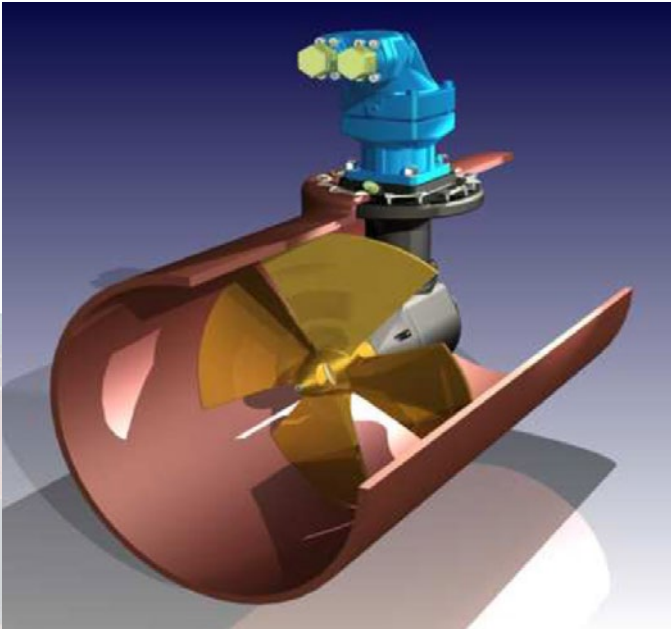
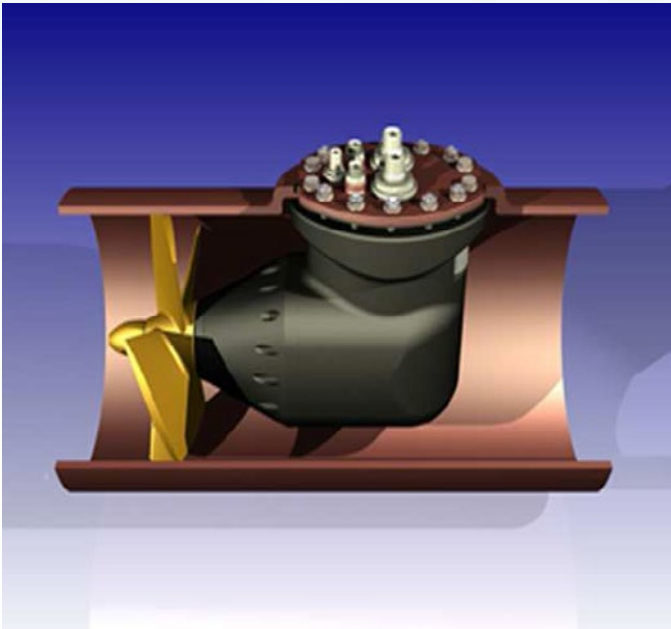


KT250 Tunnel Thruster



KT300 Tunnel Thruster Datasheet

Model	KT300
Drive Motor	VOAC F11-250
System Pressure - typical	350 bar
Motor Pressure – nominal	325 bar
Flow - nominal	412.5 litres/min
Pump/Motor Power	240/223 kW
Typical Pump for full thrust	270cc@1500rpm
Propeller Diameter	750 mm
Propeller RPM	825
Nominal Thrust	2700 Kg
Tunnel	ST52 or Grade A steel, 22mm thickness.
Wear Ring	Stainless steel wear ring in way of propeller tips, 5mm thick
Drive Housing	SG Iron.
Drive Shaft	Sealed bearing assembly, oil lubricated, 8 litre header tank supplied
Propeller	Five blades, Manganese Bronze



KT300 Tunnel Thruster