

Kelvin TA6

Machine Application

225 hp / 168 kW or 1200 cfm

General Description

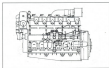
The TA6 is a 4 stroke 6 cylinder in-line diesel engine having an operating speed range of 600-1200 c/min. The engine is naturally aspirated and fresh water cooled through a mounted heat exchanger and gear driven fresh and sea water pumps.

The crankcase is of cast iron with separate cylinder blocks, each for two cylinders with wet liners and individual cylinder heads. Water cooled exhaust manifolds and crankcase drains are fitted as standard.

Full range lubrication includes a gear driven lubricating oil pump

and engine mounted fresh water cooled air cooler.

A typical vibration damper is fitted at the free end of the engine and the crankshaft has an inhibition for power take-off purposes. Further power drive options are provided at the free end.



Technical Data

Maximum crankshaft power is 225 hp at standard conditions and 1200 c/min

No. of Cylinders	6
Bore	102.1 mm
Length of Stroke (std)	104.1 mm
Stroke	7.33 in/cycle
Cubic Capacity	25.4 liter
Rated Speed at 1200 c/min	7.27 m/s
Engine Speed Range	600-1200
Lubrication Oil Capacity	21 liter

The engine can be supplied with marine-swirling and reduction gearboxes

Ratio (ICE)	Typical Prop Diameter *
2:1	1080mm
3:1	1170mm
3.5:1	1260mm

Other gearboxes can be specified in various ratios.

* Propeller diameters are for guidance only and actual sizes will depend on individual installations.

Engine Rating Conditions

All ratings are based on ambient air temperature and sea water temperature not exceeding 37° C.

Weights and Shipping Data

Approximate dry weight of Engine and Gearbox	4210kg
Shipping weight	4570kg

KELVIN DIESELS



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Standard Equipment

Close control governor.
Fuel feed pump.
Fuel filter (changeover type).
Lubricating oil filter (changeover type).
Lub. oil cooler.
Crankcase-sopping pump.
Fresh and raw water pumps.
Instrument panel (mounted) with tachometer, fresh water thermometer, lubricating oil pressure gauge, boost pressure gauge, RPT push switch.
24 volt electric start motor.
Battery charging alternator 24 volt, 28 amp. capacity with equipment voltage control and reverse current protection.
Tool kit including engine manual.

Optional Equipment

Engine adapted for fuel cooling.
Battery charging alternator 24 volt, 60 amp.
Power drive at top end of engine.
Clutch FIC on free end of engine, or optional from the engine lubricating system.
Motor gearboxes (with fixed or reversible propellers).
Bridge controls and instruments.
Worm/Reducer gears with engine mounted helices.
Overgeared hulls.
Engine governor.
Fuel/air filter and flexible fuel line.
Exhaust piping.
Raw water piping and strainers.

Ridge pump, pedestal mounted or engine shaft drive.
Ridge pump, coiler and fittings.
Stemgear and propeller feed or control line push for motorized ship construction.
Engine units delivered surveyed to comply fully with the requirements of major classification societies.

A Typical Engine Package

Rubin specialises in the provision of complete sets of marine equipment. A typical set of equipment incorporates all standard equipment and selected items from the range of optional equipment.

Performance

The maximum shaft horse power rating of the 164 engine is 310 hp at 1000 r/min and standard conditions. This is the calculated power available at the gearbox output coupling with 40-hp auxiliary drive. Please consult with Rubin if engine, fuel and/or gearbox auxiliary drives are to be used.



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Kelvin TA56

Marine Propulsion
300 bhp 224 kW at 1200 RPM

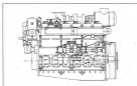
General Description

The TA56 is a 4 stroke 6 cylinder in-line diesel engine having an operating speed range of 600-1200 r/min. The engine is turbocharged and is fresh water cooled through a mounted heat exchanger and gear driven fresh and sea water pumps.

The crankcase is of cast iron with separate cylinder blocks, each for two cylinders with wet liners and individual cylinder heads. Water cooled exhaust manifolds and crankcase doors are fitted as standard.

Wet sump lubrication includes a gear driven lubricating oil pump

and engine mounted fresh water cooled oil cooler. A torsional vibration damper is fitted at the free end of the engine and the crankshaft has an extension for power take-off purposes. Further power drives can be provided at the free end.



Technical Data

Maximum crankshaft power is 300 bhp at standard conditions and 1200 r/min

No. of Cylinders	6
Bore	185.1 mm
Length of Stroke	184.15 mm
BMEP*	9.64 kg/cm ²
Cubic Capacity	33.4 litres
Rated Speed at 1200 r/min	7.37 m/s
Engine Speed Range	600-1200
Lab. Oil Type	DL-MP-SAE30
Oil Capacity	80 litres

The engine can be supplied with marine reversing and reduction gearboxes

Kelvin RG32 Gearbox Ratio	Typical Prop Diameter*
2.1	1140mm
2.5:1	1200mm
3.3:1	1470mm

Other gearboxes can be supplied in various ratios.

* Propeller diameters are for guidance only and actual sizes will depend on individual installers.

Engine Rating Conditions

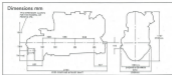
All ratings are based on ambient air temperature and sea water temperature not exceeding 27°C, barometric pressure 1 bar.

Weights and Shipping Data

Approximate dry weight of Engine and Gearbox	4275kg
Shipping weight	4750kg
Shipping size	9.5 m ³

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Standard Equipment

Close control governor.
 Fuel feed pump.
 Fuel filters (changeover type).
 Lubricating oil filter (changeover type).
 Sub. oil system.
 Condensate emptying pump.
 Fresh and raw water pumps.
 Instrument panel (mounted) with tachometer, fresh water thermometer, lubricating oil pressure gauge, boost pressure gauge, start push switch.
 24 volt electric start motor.
 Battery charging alternator 24 volt, 55 amp, capacity with suppressed voltage control and reverse current protection.
 Tool kit including engine manuals.

Optional Equipment

Engine adapted for leaf cooling.
 Battery charging alternator 24 volt, 80 amp.
 Power drives at free end of engine.
 Clutch PIT on free end of engine, all operated from the engine lubricating system.
 Marine gearbox to suit fixed or controllable propellers.
 Bridge controls and instruments.
 Alarm/shutdown panels with engine mounted switches.
 Overhaul standers.
 Engine protractor.
 Exhaust silencer and flexible bellows.
 Exhaust piping.
 Sea water piping and seacocks.

Edge pump, pedestal mounted on engine and belt driven.
 Edge piping, cocks and fittings.
 Geargear and propeller fixed or controllable pitch for wood or steel ship construction.
 Engines can be delivered surveyed to comply fully with the requirements of major classification societies.

Kelvin Package

Kelvin specialises in the provision of complete sets of matched equipment. A typical set of equipment, incorporates all standard equipment and selected items from the range of optional equipment.

Performance

The maximum shaft horse power rating of the T456 engine is 380 shp at 1300 rpm and standard conditions. This is the calculated power available at the gearbox output coupling with no auxiliary drives. Please consult with Kelvin if engine, front end or gearbox auxiliary drives are to be used.



KELVIN DIESEL



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Kelvin TASC6

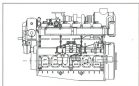
Marine Propulsion
335 bhp 350 kW at 1200 RPM

General Description

The TASC6 is a 4 stroke 6 cylinder in-line diesel engine having an operating speed range of 600-1200 r/min. It is turbocharged and fitted with a sea water cooled intercooler. The engine is fresh water cooled through a mounted heat exchanger and gear driven fresh

and sea water pumps. The crankcase is of cast iron with separate cylinder blocks, each for two cylinders with wet liners and individual cylinder heads. Water cooled exhaust manifolds and crankcase doors are fitted as standard. Wet sump lubrication includes a

gear driven lubricating oil pump and engine mounted fresh water cooled oil cooler. A torsional vibration damper is fitted at the free end of the engine and the crankshaft has an extension for power take-off purposes. Further power drives can be provided at the free end.



Technical Data

Maximum crankshaft power is 335 bhp at standard conditions and 1200 r/min
No. of Cylinders 6
Bore 165.1 mm
Length of Stroke 194.15 mm
BMEP 10.77 kg/cm²
Cubic Capacity 23.6 litres
Piston Speed at 1200 r/min 7.37 m/s
Engine Speed Range 600-1200
Inlet oil type DL-MF-SAC30
Oil capacity 68 litres

The engine can be supplied with marine reversing and reduction gearboxes

Kelvin K003 Gearbox Ratio	Typical Prop Diameter *
2:1	1200mm
3.5:1	1370mm
5.5:1	1475mm

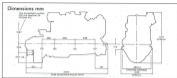
Other gearboxes can be supplied in various ratios.
* Propeller diameters are for guidance only and actual sizes will depend on individual installations.

Engine Rating Conditions
All ratings are based on ambient air temperature and sea water temperature not exceeding 37°C.

Weights and Shipping Data
Approximate dry weight of Engine and Gearbox 404kg
Shipping weight 484kg
Shipping size 9.5 m³

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Standard Equipment.

Close control governor.
Fuel feed pump.
Fuel filters (changeover type).
Lubricating oil filters (changeover type).
Oil oil coolers.
Crankcase emptying pump.
Fresh and raw water pumps.
Instrument panel (mounted) with tachometer, fresh water thermometer, lubricating oil pressure gauge, boost pressure gauge, stop push switch.
24 volt electric start motor.
Battery charging alternator 34 volt, 50 amp. capacity with suppressed voltage control and reverse current protection.
Tool kit including engine manual.

Optional Equipment.

Engine adapted for keel cooling.
Battery charging alternators 24 volt, 70 amp.
Power drives at free end of engine.
Clutch PTO on free end of engine, all operated from the engine lubricating system.
Marine gearbox to suit fixed or controllable propellers.
Bridge controls and instruments.
Alarm/shutdown panels with engine mounted switches.
Over-speed shutdown.
Engine pyrometer.
Exhaust silencer and flexible bellows.
Exhaust piping.
Sea water piping and nozzles.

Ridge pumps, pedestal mounted on engine and belt driven.
Ridge piping, racks and fittings.
Steargear and propeller fixed or controllable pitch for wood or steel ship construction.
Engines can be delivered surveyed to comply fully with the requirements of major classification societies.

Kelvin Package.

Kelvin specialises in the provision of complete sets of matched equipment. A typical set of equipment, incorporates all standard equipment and selected items from the range of optional equipment.

Performance.

The maximum shaft horse power rating of the TASC engine is 310 shp at 1200 rpm and standard conditions. This is the calculated power available at the gearbox output coupling with no auxiliary drives. Please consult with Kelvin if engine fixed and or gearbox auxiliary drives are to be used.



KELVIN DIESEL 

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