GENERAL SPECIFICATION FOR NORGEAR MARINE GEARBOXES AND CLUTCH UNITS

Make: NORGEAR PRODUCTS MADE BY KUMERA AS, NORWAY

Direction of rotation: Both directions of rotations are available

Performance: Powers up to 5000 kW can be supplied
Torques up to 1000 kNm on one shaft can be supplied.

Design types available: Co-axial
Horizontal offset
Vertical offset
Horizontal and vertical offset
Angular offset sidewise, upwards or downwards

Materials: Casing in cast iron
Shafts St 52.3 or better
Gears 17CrNiMo6 or similar
Hydraulic Clutch – Kumera design – heavy duty marine clutches and DnV Type Approved

Bearings: Heavy duty oil lubricated roller bearings – SKF or FAG

Coating: Precision ground and top coated

Instrumentation and equipment:
- Mechanically driven lube oil pump
- Optional: Electrically driven stand by pump
- Oil cooler
- Oil pressure filter
- Oil dip stick
- Breather
- Lube oil pressure switches with digital pressure gauge
- Clutch oil pressure switches with digital pressure gauge
- Oil temperature gauge
- High oil temperature alarm switch
- Built in hydraulically operated clutch
- Solenoid valve with 220VAC/24VDC for the clutch engagement

Oil cooler: Max. 32°C as standard supply, any other request can be met including fresh water cooling.

Lubrication: Large capacity oil sump combined with positive displacement oil pump.
All bearings and gear meshes are lubricated by pressurized lube oil.

Spares and tools:
- Classification requirement: No requirements
- Two years on board spares: 2 off filter inserts
- Tools: No special tools are required for any of the equipment supplied by Kumera AS.
Following documentation will be provided:

* User manual in 3 fold (English language)
* Dimensional drawing
* J-scheme for TVC (torsional vibration calculations)
* Instrumentation diagram
* Certificates by: Any surveying company

Documentation:

3 of Installation- and maintenance manuals in paper copies
1 of Manual on CD-roam
Work Shop Test Certificate
DnV Type Approval on Clutch

Optional:

Class Survey Certificates from the worlds largest Class Societies