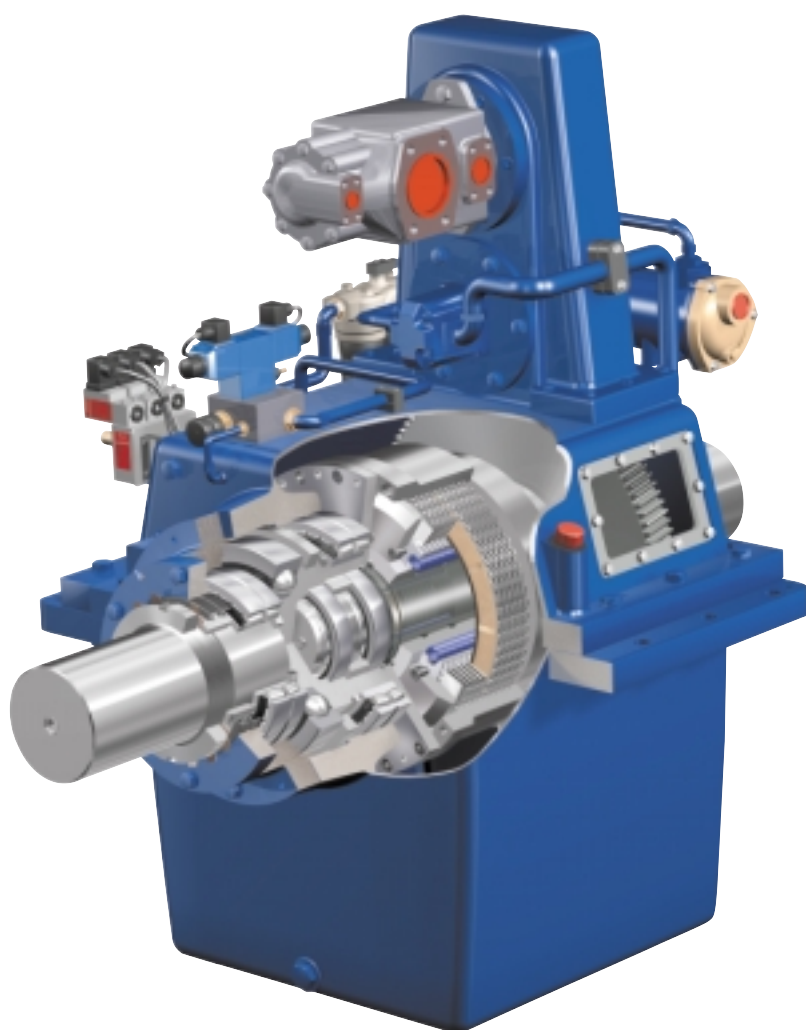




KUMERA Norgear hydraulic clutch units for marine and industrial applications



The NKHU oil operated multi-disc clutch series offers a compact transmission for a torque range of 1250 – 60,000 Nm.

The standard configuration is free-standing but smaller sizes are available with SAE flanges.

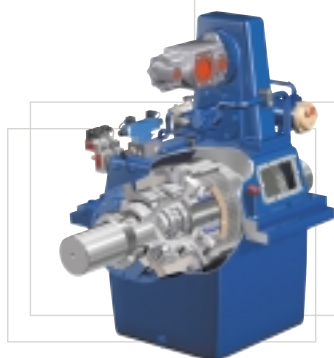
The clutch is self-contained in cast housing with mechanical and/or electric oil pressure pump, oil cooler, filter and alarm sensors.

The clutches are set up for remote electrical operation via an electro-hydraulic valve for 24V dc or 240V ac supply with local manual control in case of loss of power supplies. Advanced control systems, engineered to give the correct format and rate of engagement allow clutch utilisation upto full speed of the engine.

Lubricated and cooled by the mechanical driven pressure oil pump, the unit is self-adjusting for life of the clutch plates.

The KUMERA package can include a torsional flexible input coupling and an output coupling to suit the driven unit.

KUMERA Norgear hydraulic clutch unit applications



MARINE

- Propulsion
- Water Jets
- Azimuth drive
- Tunnel thrusters
- Fire pumps
- Hydraulic pumps
- Cargo pumps
- Dredge/jet pumps

INDUSTRIAL

- Material handling
 - elevators
 - conveyors
 - cranes
- Forestry
 - lumber and wood working
- Metal
 - forming and fabrication
- Paper
 - reels - presses - dryers
- Mills
 - ball - crusher - grinders
- Mobile
 - road/rail working machines
 - snow moving machines
- Pump drives

Clutch models upto 60,000 Nm capacity have DNV Type Approval. When specified, clutch designs would be approved and built under the survey of the relevant Classification Society.

DATA FOR CLUTCH SELECTION

APPLICATION – brief description:
Se above application as examples.

PRIME MOVER:

Electric motor	Internal Combustion engine
<i>Power KW</i>	<i>Power KW</i>
<i>Speed RPM</i>	<i>Speed RPM</i>
	<i>Flywheel housing – SAE</i>

DRIVEN MACHINE:

<i>Power absorbed</i>	<i>KW</i>
<i>Speed</i>	<i>RPM</i>
<i>Inertia</i>	<i>kg.m²</i>
<i>Number of engagements per hour/day</i>	



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