

60T HYDRAULIC MOORING WINCH c/w 230KW DIESEL ENGINE HYDRAULIC POWER PACK



OCS's 60T Hydraulic Single Mooring Winch is used for pipe pulling operations. The winch comprise of a drum which is welded to a high tensile steel main shaft supported by a pair of bushing/bearing. A central pinion shaft is mounted on drive shaft and fitted with jaw clutches to allow drum to work. The drum is also fitted with a spring loaded and hydraulic release fail-safe band brake.

An auto spooling gear assembly is fitted in front of the drum for automatic spooling during operation. When spooling in wire rope, it will distribute the wire rope evenly and tightly onto the drum if the rope is under sufficient tension. The wire rope passes through two vertical rollers, which run on roller bearings around a high tensile steel spindle held in a fabricated steel carriage. This carriage is supported on a bright steel guide shaft and a high tensile steel lead screw.

60T HYDRAULIC MOORING WINCH SPECIFICATIONS

Drum Capacity	1350m (Maximum) x Dia. 38mm SWR
Rated Pull (1 st Layer)	60T x 0~6m/min (Low Speed @ 1 st Layer)
	25T x 0~14m/min (High Speed @ 1 st Layer)
Drum Brake Holding	130T (Static, 1 st Layer)
Brake Assembly	Hyd. Released, Spring Applied, Fail Safe Type
Clutch Assembly	Hyd. Operated Jaw Clutch
Ratchet Assembly	Hyd. Operated Pawl Type
Ratchet Holding Capacity	130T (Static, 1 st Layer)
Spooling	Auto Spooling Device with Manual – Declutch (For Dia. 52mm wire rope only)
Control	Local Control Stand

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Dimensions	4.2 x 3.0 x 2.6 (m)
Weight	16.8 Ton (Bare)
No of Units	1



230KW DIESEL ENGINE HYDRAULIC POWER PACK SPECIFICATIONS

Engine	NISSAN Diesel RF8
Power & Speed	230kW @ 1500 rpm
Hydraulic Piston Pump	A11VO260LRDS/11R-NZD 12N00(1 x 350L/min)
Pressure Setting	230 Bar
Working Pressure	210 Bar
Air Cooler	OK-ELD6H/3.1/24V/1/S
Hydraulic Oil Tank Capacity	1125L
Diesel Oil Tank Capacity	400L
Engine Fuel Consumption	80L/h
Dimensions	3.8 x 1.8 x 2 (m)
Weight	5.5 Ton
No of Units	1

OCS has Equipment Work Order forms for individual equipment which serves as a checklist for operator to check the equipment conditions before and during operation. It is also important to regularly review the list of critical spare parts of the equipment before each project.



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Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.

