



DP2 Cable-Laying / Pipe-Laying Vessel

BRIEF TECHNICAL SPECIFICATION



Vessel Particulars



Bridge / accommodation block



DP2 bridge control console



Deck marine crane

MAIN DIMENSION		PROPULSION SYSTEM	
Length	155 m	Main Generator	2250 kW × 6
Breadth	23.2 m	Voltage Level	6600V – 400V
Depth	12.8 m	FPP	3600 kW × 1
Draught	5.6 ~ 7.2 m	ZTP	2500 kW × 2
Load Displacement	20,278 t	FP	1800 kW × 3
Dead Weight Capacity	11,400 t	Dynamic Positioning	Kongsberg DP2
Fuel	2,400 m ³		
Fresh Water	1,000 m ³		
Speed	10.5 ~ 12.5 kt		
Accommodation	90 p		
Endurance	10,000 nm		

CABLE JOINTING SHOP		DECK EQUIPMENT	
Sealed Workshop	2,000 m ²	80t Marine Crane	80t@15m / 60t@20m / 20t@30m
Jointing Room	130 m ²	5t Marine Crane	5t@15m (1.5t people)
Testing Room	30 m ²	Towing Winch – Driving Tension	80t
Equipment Hoisting Entrance	3 × 2 m	Towing Winch – Constant Tension	10~80t
RP Storage Tank	44 × 3	Towing Winch – Speed	80t@25m/min, 40t@50m/min
		Cable Load Capacity	Ø56@3300m

CABLE LOADING

Cable Tank	3500t × 2, outer dia. 19 m, inner core dia. 3 m
Cable Loading Length	LW17mm: 5,800 km DA39.4mm: 680 km
Carousel	3000t × 1, outer dia. 17 m, inner core dia. 3.5 m, drive power 5×75 kW
Cable Loading Length	3×800Ø186mm: 38 km Ø70mm: 750 km

Cable-Laying & Underwater Equipment



Stern cable tanks



Cable reel – factory assembly



Deck crane detail

STERN A-FRAME		STERN ROLLER SHEAVE	
Dynamic Load	800 kN	Power Cable Roller	× 2
Static Load	1,200 kN	Umbilical Cable Roller	× 2
Maximum Lifting Height	13 m	Towing Cable Guide	× 1
Inner Width	13 m	Trough	
Maximum Outboard Span	15.5 m		
Tilt / Elevation Angle	+75°~0°~-71.78°		

CABLE DRUM ENGINE (CDE)		WHEELS LCE SET	
Speed	60–120–180 m/min	Speed	210kN@60m/min, 105kN@120m/min, 52.5kN@180m/min
Diameter	4 m	Specification	21 pairs wheels
Tension	50 t	Cable Dia. Range	Ø12–Ø300 mm
Rated Power	350 kW		
Cable Dia. Range	Ø12–Ø300 mm		

LINEAR CABLE ENGINE (LCE)

Speed	10 kN@60m/min, 5 kN@120m/min, 2.5 kN@180m/min
Specification	2 / 4 / 5 / 6 pairs wheels
Cable Diameter Range	Ø12 – Ø300 mm

1200HP LARGE WORKING ROV		100HP ROV	
Operating Depth	3,000 m	Operating Depth	3,000 m
Capability	Module assembly, PLIB, trench & burial	Capability	Multifunctional mechanical hand
Grasping Force	2-ton underwater grasping	Function	Observation, wet plug/unplug

TRAILING & CUTTING BURIED PLOUGH		JETTING BURIED PLOUGH	
Power per wheel set	700 hp	Power	1200 hp
Burial Depth	2.5 ~ 3.5 m	Burial Depth	3 ~ 5 m
Operating Water Depth	10 ~ 1000 m	Operating Water Depth	10 ~ 300 m
Capability	Cutting clay and sand	Feature	Auxiliary steering