

CLV NEXANS AURORA

ELECTRIFY THE FUTURE



The Vessel is a state of the art and bespoke cable installation vessel for worldwide operations in severe weather conditions, and with high maneuverability and station keeping capacity to ensure a safe and efficient transport and installation of large volumes of HVDC and HVAC cable systems, as well as general subsea construction tasks.

The vessel design offers installation capabilities from shallow to deep water, covering the complete Nexans subsea product range.

PRINCIPLE DIMENSIONS AND CAPACITIES

LENGTH OA INCL . LAYING WHEEL :	155,2 m
BREADTH MOULDED	31.0 m
DEPTH MOULDED :	8.00 m
DRAUGHT AT 33130 T :	8.80 m
DEADWEIGHT :	20708 t
GROSS TONNAGE :	22263 t
VESSEL SPEED :	14 kts
CLASSIFICATION :	DNV 1A1,CABLE LAYING VESSEL, E0,SF,NAUT(AW),CLEAN(DESIGN), SPS,DYNPOS(AUTRO),COMF(V3), ICE(C),BIS,BWM(T),VIBR,SILENT(E), RECYCLABLE, STRENGTHENED(DK)
IMO NO. :	9862059
CALL SIGN:	LALC8
FLAG :	Norway (NIS)

ACCOMMODATIONS

CABINS :	90 Single Cabins
DAYROOMS:	4
PROJECT OFFICES/MEETING ROOMS:	10
OTHER :	Messroom and Gym

DYNAMIC POSITION SYSTEM

NMD/IMO CLASS :	3
TYPE :	Kongsberg K-POS DP-22
REFERENCE SYSTEMS :	1 x DPS i4 Performance GNSS 1 x Seapath 380 gps 2 x HIPAP 502 1 x Spot Track 1 x RADius 1000 d
DNV ERN :	Class II: 99.99.99.99 Class III: 99.99.99.84

STORAGE CAPABILITIES

DECK AREA :	1160 m2
DECK LOADING CAPACITY :	15/10t m2
MAIN TURNTABLE :	10000t

LIFTING APPLIANCES AND WINCHES

A-FRAME :	150t SWL
TELESCOPIC CRANE FORWARD	20t SWL Manriding
AFT DECK KNUCKLE BOOM CRANES:	2 x 20t SWL Manriding
MID SHIP PORT CRANE :	1 x 5 t SWL Manriding
A & R WINCHES AHC	2 x 75 t
AUX WINCHES:	2 x 37,5t
STERN CHERRY PICKERS :	2 x 500 kg Manriding
HANGAR GANTRY CRANES:	2 x 5t
CONTAINER HANDLING SYSTEM:	20t SWL

POWER AND PROPULSION

POWER GENERATION :	6 x 3450 kW 1 x 1300 kW 1 x 450 kW
STERN THRUSTERS :	3 x 3200 kW CPP Azimuth
BOW THRUSTERS :	2 x 3000 kW CPP tunnel 1 x 3000 kW Retractable CPP azimuth unit
SHORE POWER:	2 x shore power connection location for 440, 690 V and up to 2000 A supply. One location fitted with Cavotec standard cable connectors.

CABLE LAYING

MAIN TURNTABLE :	Concentric type used in two or single basket modes as required. Outer diameter : 29 m Inner diameter : 10 m Load capacity : 10000 t
STB CABLE CAPSTAN SYSTEM :	1 x 10 m diameter total pull 75 t.
PRT CATERPILLAR SYSTEM:	2 x 25t X-track units
LAYING WHEELS :	2x10m diameter 75 T
LAYING INSTRUMENTATION :	Computer based redundant laying control system fully integrated with onboard navigation and survey systems.

SURVEY

SURVEY :	Permanent online station on operations bridge including dedicated Kongsberg HIPAP APOS survey station plus separate large capacity offline processing room.
HULL MOUNTED INSTR:	Nortek ADCP Ocean Current meter Signature 55, range 1000+ m. 4 x hull mounted Kongsberg EA440 Hydrographic Echo sounders.

ROV

ROV FACILITIES:	Permanent stern ROV hangar with adjacent ROV control room and workshops. Prepared for additional aux ROV in separate hangar starboard side aft.
ROV SYSTEM:	Merlin WR200 Work Class
TMS :	Top hat system with 300m tether
HANDLING SYSTEM:	Kongsberg LARS AHC with 3000m umbilical
OPTIONAL	Second WROV, OBS ROV or Captrack system

TRENCHING

TRENCHING UNIT:	Nexans Capjet trenching/dredging units
PLOW:	Nexans Subsea Plow system for simultaneous laying and plowing

CABLE HANDLING AND JOINTING

CABLE HANDLING HANGAR:	Enclosed 675 sqm area
JOINTING AREA :	Enclosed 175 sqm area for flexible joints
JOINTING FACILITIES:	Separate HVAC unit for humidity/temp control. Oil storage and distribution system as well as all utilities.
CABLE HANDLING EQ. :	Main equipment for cable handling during a jointing/repair is permanently stored onboard including laydown quadrant.

WORK AND TENDERING BOATS

WORK BOATS:	8 x 2 t Bollard pull boats in dedicated boat handling system
TENDER BOATS:	2 x Fast tender boats capacity 20 pax