Deep·C®

Deep C Pile and Wellbore Dredging Tool

Compact Subsea Dredging and Jetting for Piles, Conductors and Wellbores

Deep C Pile and Wellbore Dredging Tool (PWDT) is a submersible dredging and jetting unit which is lowered into the pile. It consists of a top unit where the dredge unit is situated and a lower part where the suction head and jetting system is situated. Between these two parts the tool is fitted with suction hose/pipe to reach desired dredge depth. The dredging pump is powered by a topside HPU by use of hydraulic umbilical. The PWDT can also be equipped with camera and lights for inspection or for monitoring.

The PWDT is built to loosen remaining sediments and concrete inside of smaller piles, conductors and wellbores. For the more compact sediments and concrete, high-pressure water is supplied by a downline from a top side unit. The jetting system is designed for up to 120 lpm @ 1100 bar, depending on pump setup and project specific requirements. The Deep C PWDT is easy to operate and requires minimum deck space.

Features

- Designed for efficient removal of sediments, compacted soil and concrete residues.
- Compact and flexible system requiring minimal deck space and simple vessel integration.
- Modular suction hose configuration for project-specific dredging depths.

deepcgroup.com
mail@deepcgroup.com
+47 71 58 32 28

Seabed Intervention Specialist

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Technical Specifications

Deep C Pile and Wellbore Dredging Tool (PWDT) is a versatile subsea dredging system designed for efficient internal cleaning of piles, conductors and wellbores. With a modular design, optional high-pressure jetting and project-specific configurations, the system provides reliable performance across a wide range of offshore intervention applications.

Contact sales@deepcgroup.com for more details.

System Overview and Equipment Interface

For a typical Deep C Pile and Wellbore Dredging Tool spread, the following items are used:

PWDT Body

LxWxH:	1 800 x Ø 630 x Ø 630 mm
Weight:	285 kg

Typical Suction Heads (Optional)

Suction Head 1 (LxWxH):	1 173 x Ø 441 x Ø 441 mm
Suction Head 1 Weight:	117 kg
Suction Head 2 (LxWxH):	1 131 x Ø 280 x Ø 280 mm
Suction Head 2 Weight:	40 kg

High Pressure Jetting Pump (Optional)

LxWxH:	2 362 x 2 438 x 2 591 mm
Weight:	12 000 kg
Maximum Pressure:	1 100 bar
Maximum Flow:	120 lpm

Hydraulic Power & Hose Reel (HPU)

LxWxH:	2 991 x 2 438 x 2 671 mm
Weight:	6 000 kg
Power Interface:	440 V, 60 Hz, 63 A, 3-phase
	230 V, 50/60 Hz, 16 A, 1-phase

Cable Chute

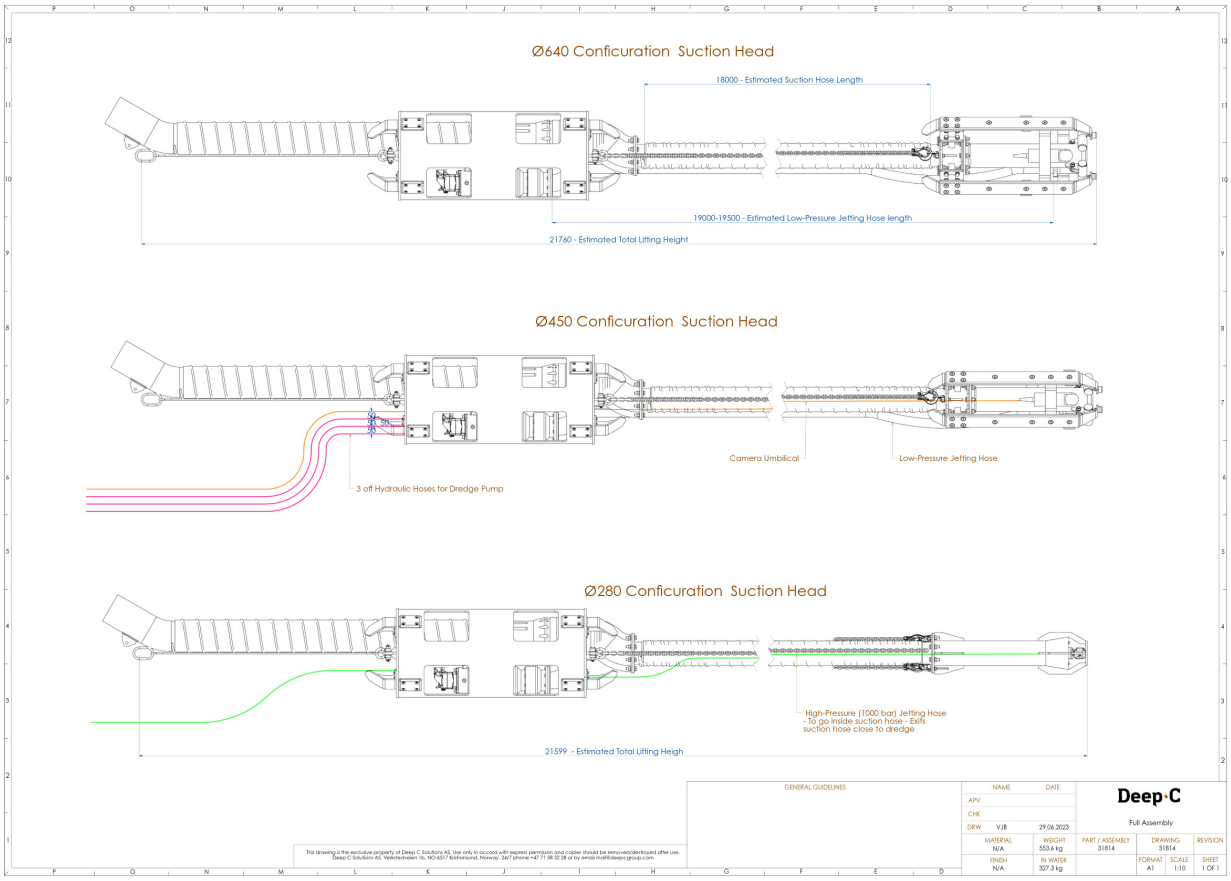
LxWxH:	2 362 x 915 x 1 770 mm
Weight:	750 kg

Hydraulic Connections

Hydraulic Pressure:	180 bar
Hydraulic Flow:	60 lpm
3/4” Hydraulic hose (Pressure) - 12 JIC female fitting	
3/4” Hydraulic hose (Return) - 12 JIC female fitting	
1/2” Hydraulic hose (Drain) - 8 JIC female fitting	

Technical Drawings

The Deep C Pile and Wellbore Dredging Tool (PWDT) is engineered for efficient internal dredging and jetting operations in piles, conductors and wellbores. The technical drawings illustrate the complete tool assembly, dredge unit configuration, interchangeable suction head arrangements, principal dimensions, hydraulic interfaces and rigging arrangement for safe offshore deployment.



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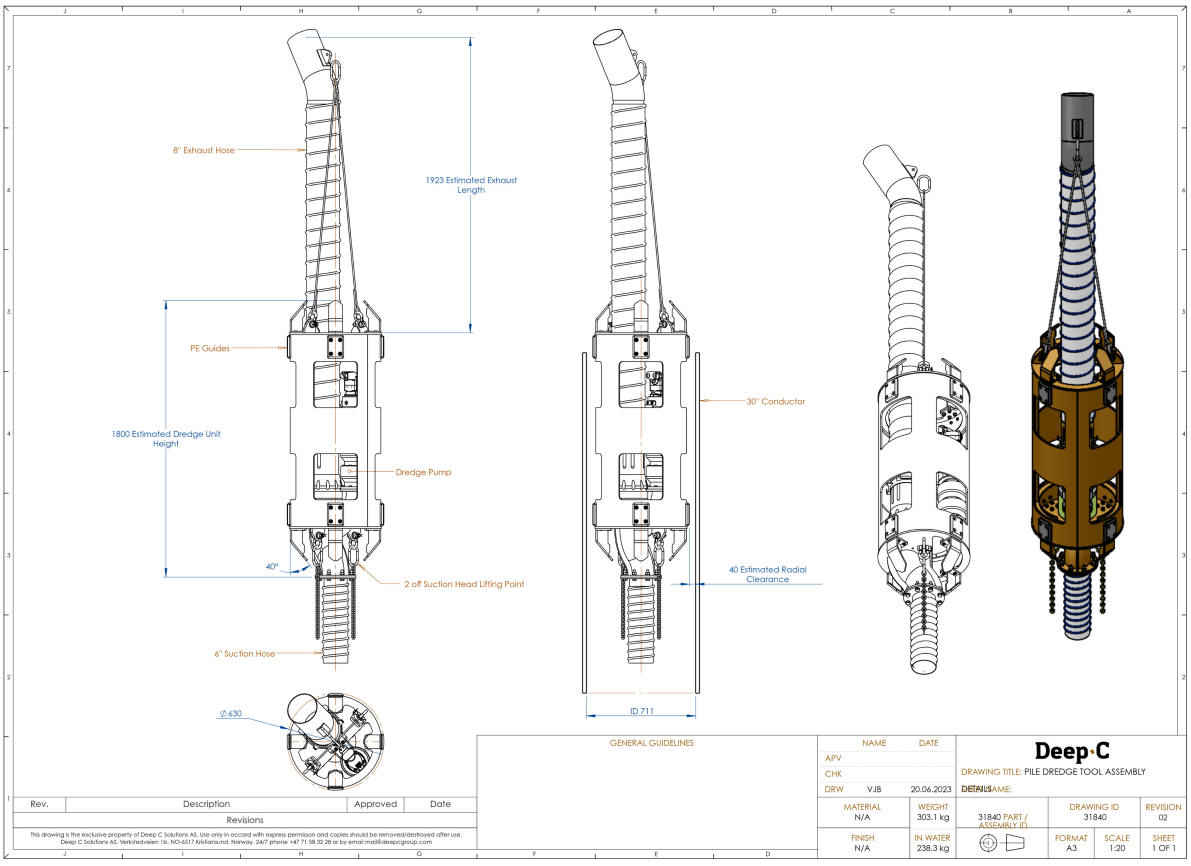
Technical Drawings



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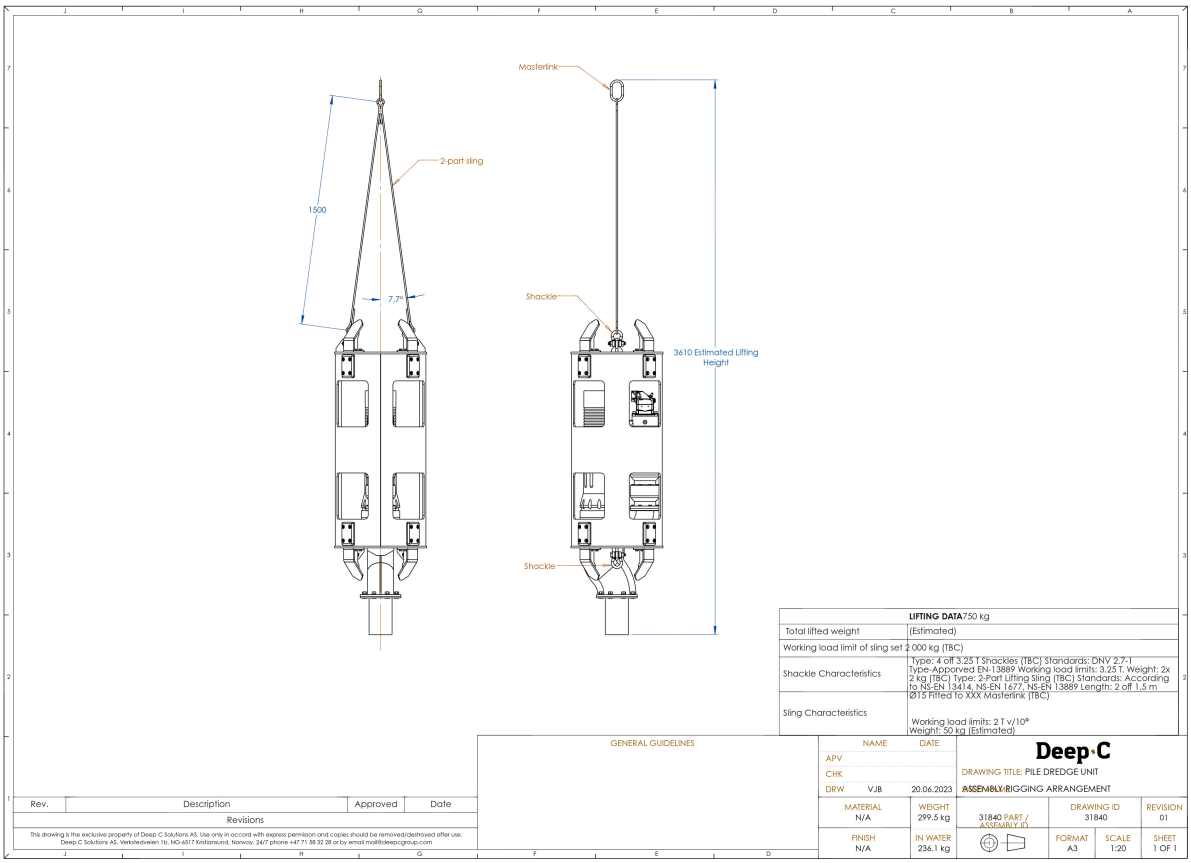

LIFTING DATA 750 kg	
Total lifted weight	(Estimated)
Working load limit of sling set	2 000 kg (TBC)
Shackle Characteristics	Type: 4 off 3.25 T Shackles (TBC) Standards: DNV 2.7-1 Type-Approved EN-13889 Working load limits: 3.25 T. Weight: 2x 2 kg (TBC) Type: 2-Part Lifting Sling (TBC) Standards: According to NS-EN 1.3414, NS-EN 1677, NS-EN 13889 Length: 2 off 1,5 m Ø15 Fitted to XXX Masterlink (TBC)
Sling Characteristics	Working load limits: 2 T v/10° Weight: 50 kg (Estimated)

GENERAL GUIDELINES

	NAME	DATE
APV		
CHK		
DRW	VJB	20.06.2023

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DRAWING TITLE: PILE DREDGE UNIT
ASSEMBLY: RIGGING ARRANGEMENT

MATERIAL	WEIGHT	31840 PART / ASSEMBLY ID	DRAWING ID	REVISION
N/A	299.5 kg		31840	01
FINISH	IN WATER		FORMAT	SCALE
N/A	236.1 kg		A3	1:20

SHEET 1 OF 1

Rev.	Description	Approved	Date
Revisions			

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