

18.1 TON TWO DRILLS HYDRAULIC SCREW PILES SYSTEM

PRODUCT OVERVIEW & TECHNICAL SPECIFICATION

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1. PRODUCT OVERVIEW AND INFORMATION

1.1 Introduction

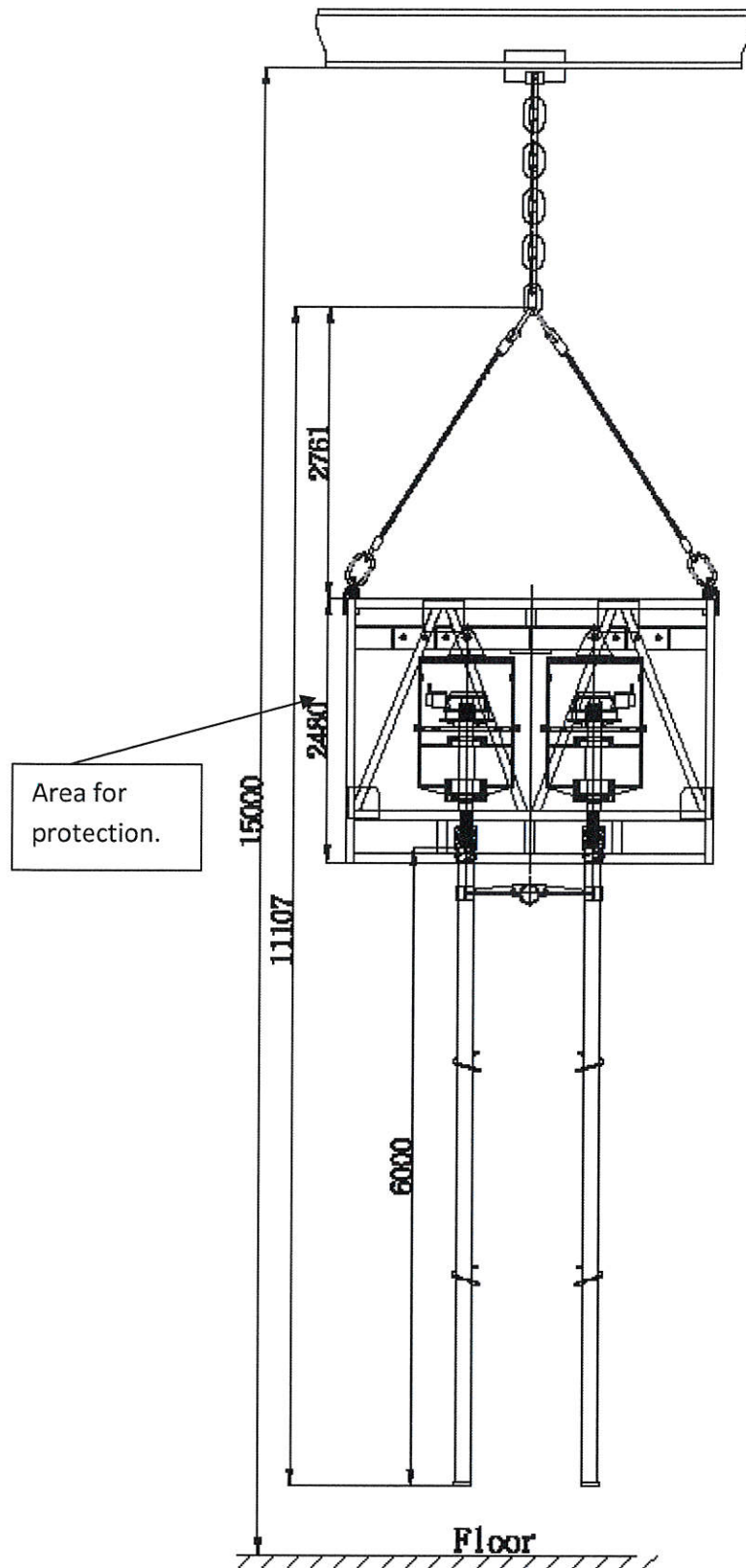
The submerged screw piles system is a subsea pipeline, under-sea working device. It plays a very important role in the underwater operation by installing screw anchors to stabilize the pipe line. The anchor pipe system could be used for many other underwater pipeline applications.

The Screw Piles System is a fast and effective way to secure the oil pipes onto the sea bed. The system ensures that the pipes are immune to the external environmental elements such as flood currents or uneven sea bed.

1.2 Product philosophy and usage

Subsea pipeline is fast becoming a vital part of offshore oil and gas development engineering facilities. During the piping installation and operation, because of the wave flow resulting from the earthquakes and natural environmental load, the stability of the pipe line has been affected. In order to stabilize the sea bed, service suppliers often take extreme engineering measures, such as increasing the weight of the underwater pipeline or add more pressure block to maintain the stability of submarine pipeline. However, in highly unstable area of the sea bed, it can produce bigger collapse, landslide or erosion thus, destroying the pipelines.

It's highly recommended to use the Screw Piles System to avoid above mentioned scenarios and keep subsea pipeline stable.



18.1 Ton Screw Piles System

2. PRODUCT TECHNICAL SPECIFICATIONS

2.1 Features & Technical Characteristics

The product is designed for use in offshore oil fields at the depth of not more than 25 meters. Some of the main system features and characteristics are as follows:-

- ❖ Compact and simple structure
- ❖ Better anchoring effect and very user friendly system
- ❖ Simple installation and easy to transport
- ❖ Accurate data analysis with real time updates
- ❖ HMI & panel control system
- ❖ Long service life and ease of maintenance
- ❖ Safe, reliable and stable performance

SUMMARY OF INVENTION:

After testing and commissioning, the screw piles system successfully proves that it can finish the underwater engineering project well beyond specifications.

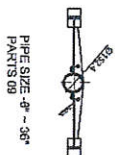
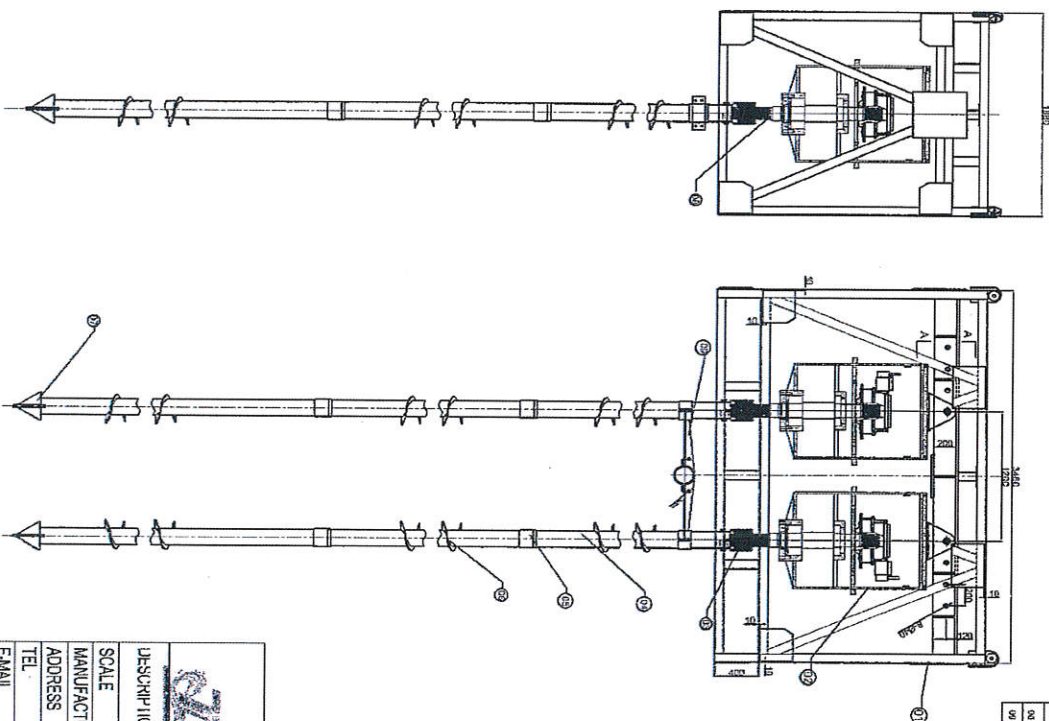
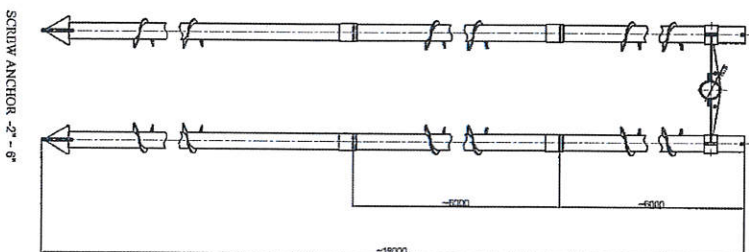
FOR INFORMATION ONLY

12 DEC 2012

Date: _____

DET NORSKE VERITAS 1864

DET NORSKE VERITAS PTE LTD SINGAPORE



ANCHOR PIPE SPECIFICATION	
DESCRIPTION	PARAMETER
MAX TORQUE ON BIT	20-12000 MM
SHAFT MAX. DIAMETER	30000 MM
FRAMEWORK DIAMETER	24000 MM (1000 MM X 1000 MM)
SHAFT LENGTH	100 M
MAX SHAFT DIAMENSION	CO 2 MCH - CO 8 INCH
MOTOR	4/600 LBS MOTOR
BLADE DIMENSION	CO 300 MM
CUTTING TORQUE	242,500 M
RATED REVOLUTION SPEED	0 - 1 " PER MIN
SYSTEM OPERATING PRESSURE	2500 PSI
WATER DEPTH	30 M

		TITLE:	
DESCRIPTION		18.1 Ton Two Drill Hydraulic Anchor pipe	
SCALE	 THIRD ANGLE PROJECTION	ALL DIMENSIONS IN MM (UNLESS OTHERWISE STATED)	
MANUFACTURER	TIANCHONG ELECTRICAL MARINE EQUIPMENT PTE LTD		
ADDRESS	16 Kian Teck Way, Singapore 629749		
TEL	+65(6) 6265 4894 +65(6) 6265 1057		
E-MAIL	hanchong@signal.com.sg		
CUSTOMER	HAFAR MARINE PTE LTD		
VESSEL NAME	HAFAR NEPTUNE		
MODEL NO	TC-18 TDDHP002	ENGR	
PROJECT NO	P-1204055	CHKD	
DIAGRAM NO	DD48501/0001	APPD	
		SHEET	1/4
		DRAWN	YAN SACHONG
		SERIAL NO	TC-1201/2008
		REVISION	6