

EXPLORER SD60

SEABED DRILL RIG



 **SUBSEA**
GEO TOOLS

Powered By
 **Eijkelkamp**
Meet the difference

About Subsea Geo Tools

Subsea Geo Tools was founded in The Netherlands with a simple mission. Redefine subsea geotechnics by providing robust, cutting-edge technology with a service to match. We are committed to supporting our customers through training and support, ensuring your operational excellence. Your success is our mission.

The Explorer SD60 System

The first commercially available seabed-based drilling system for soil and rock coring, anchor drilling, screw pile driving or salvage operations.

Originally designed for simple and reliable seabed rock coring, through continuous development the Explorer became a multifunctional seabed drilling platform that retrieves a sample where other systems fail; without the need for a large offshore drilling vessel.

Complete yet Modular Seabed Drilling Solution

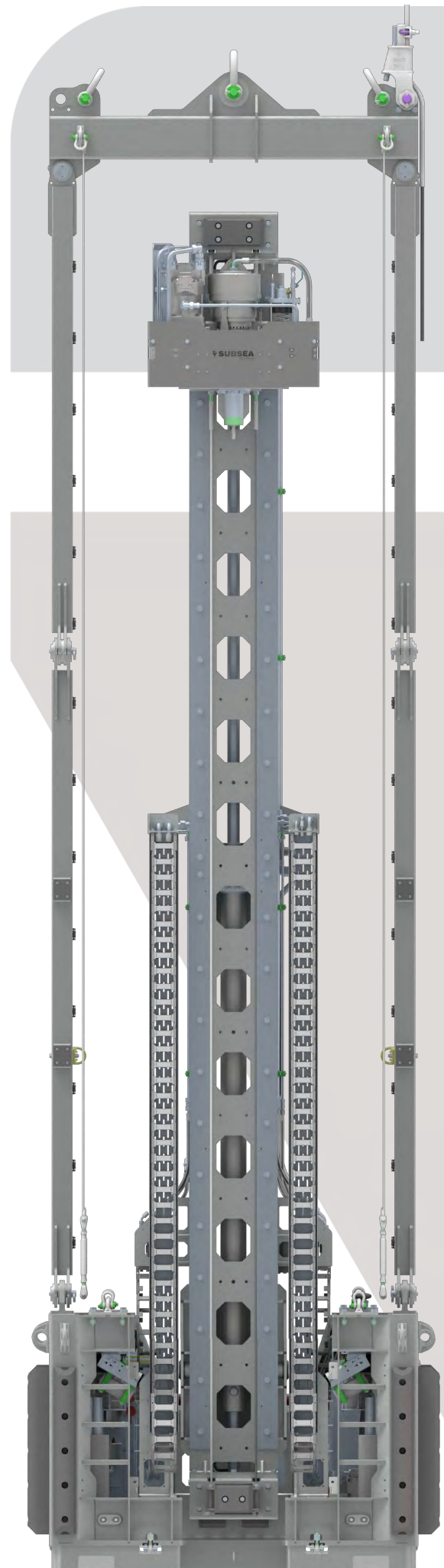
The Explorer design provides users with a turnkey seabed drill, yet the modular construction allows for configuration and future-proof add-ons providing project flexibility.

Electrical power from the umbilical to the powerpack provides a 60 kW hydraulic output, divided over three separate valve blocks equipped with pressure and flow proportional and controllable valves.

Subsea Geo Tools' in-house developed umbilical communication method has immediate, real time communication from the startup of the system, yet does not require fibre optics or other specialist termination methods, making it field serviceable.

Tiltable Drill Mast

The tiltable drill mast, together with controllable level jacks, allows drilling on uneven seabeds and in any direction or close to existing infrastructure such as quay walls or piles. The drill masts precise feed rate and active load control ensures any drilling system can be operated, from high rotational speed diamond coring to high torque helical anchor installation.



Product Highlights

Modular seabed rotary and Sonic Drilling system

Full suite of in-field interchangeable drill heads available

Standard 6 m core run, rotary drilling chuck available for deeper holes

Drill mast extendable for up to 10 m stroke combined with RotoSonic head

Levelling system for uneven seabeds, tiltable mast for in-clined drilling

Integrated Measurement While Drilling (MWD)

General Specifications

Depth rating	Up to 500 msw standard (deep water option available)
Dimensions (L x W x H)	3,200 x 2,150 x 8,730 mm
Dry weight	10,000 kg ballastable
Hydraulic power output	60 kW
Transport	Standard ISO container
Power requirements	400/440 VAC, 125 A, 50/60 Hz

Drill Head Options

Full drilling specs at subseageotools.com

Royal Eijkelpkamp CompactRotoSonic (CRS) rotary sonic

Two-speed rotary coring head for diamond coring

Open spindle chuck rotary head

High torque screwing anchor for installations

Instrumentation & Tooling

2x HD video and dimmable LED channel	2x proportional hydraulic PTO
ISO 22476-15 Quality class 1 MWD	2x RS485/CAN configurable inputs
Heading sensor	Altimeter

Modular Add-ons

Rotary drill chuck for extending drilling borehole depth

Digital CPT system

Push in seismic P&S wave source

7.5, 15, 30, and 55 kW constant tension winches

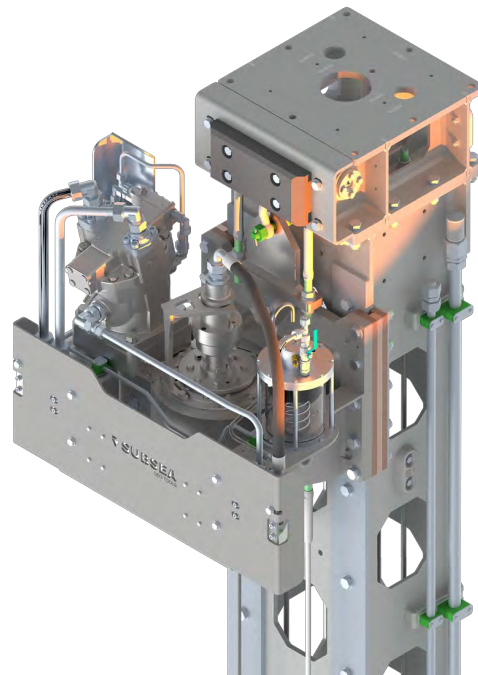
Mobile command centre with integrated controls

Submersible crawler for seabed tracking

Rotary & Sonic Drilling

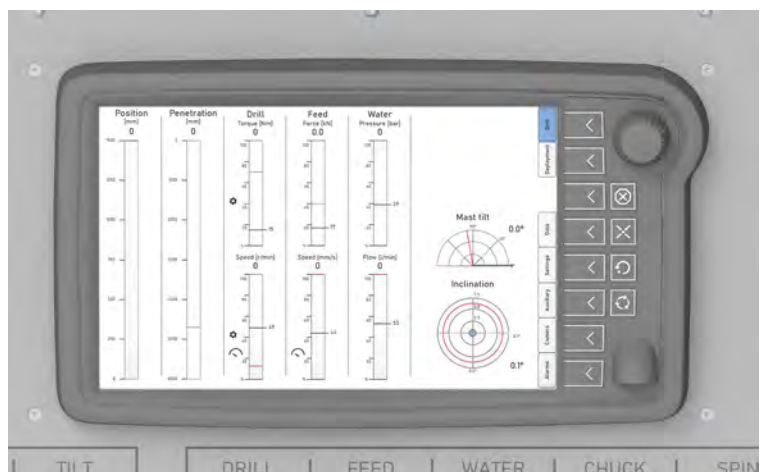
Subsea's partnership with Sonic drilling experts, Royal Eijkelpkamp, allows the Explorer to be equipped with industry-leading 150 Hz RotoSonic drill heads. However, you are still able to select any Subsea Geo Tools standard coring heads or custom rotary head to suit your drilling purposes.

Modular rotary head carrier and controls accommodate for field swappable drill heads allowing users to react to rapidly changing offshore project demands without costly port calls giving the capability of multiple machines in one drilling system.



Reliable Real-time MWD

The Explorer's many sensors are integrated into a comprehensive Measurement While Drilling (MWD) system with the software incorporated into the control panel's onboard computer. This provides real time insight into ground conditions, as well as coring operations, anchor installation or any other project the Explorer is undertaking.



Cutting Edge Technology, Service That Won't Let You Down

Having industry-leading equipment is only part of the puzzle when it comes to subsea geotechnics. Not only does Subsea Geo Tools provide powerful, robust, and future-proof turnkey geotechnical equipment packages, we support it with service and technical knowhow you can depend on. In challenging environments, with tight deadlines, and when the pressure is on, you need to be equipped with tools and support that will not let you down. That is why customers choose Subsea. If you are ready to take your subsea geotechnics to the next level, then we are ready to help you get there.

As well as delivering equipment, our expert team will be on-hand for commissioning, training and operational support ensuring that you get the most out of your geotechnical operations. To find out more, contact one of our experts.

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