

**TOP NOTCH
DEEP-SEA
EQUIPMENT**



VCG550 ROV

Technical Specifications

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1.Product Overview

The VCG550 Trench Blower is an intelligent equipment developed primarily by Shandong Future Robot Co., Ltd. for the construction of deep-sea submarine optical cables, cables and pipelines. This equipment features domestically pioneered intelligent technologies including deep-water intelligent operation, strong current resistance, cable detection, cable tracking, cable burial, as well as cable and submarine pipeline inspection and re-burial. It is mainly suitable for operations in geological environments such as submarine sandy soil and soft soil.

The VCG550 Trench Blower can operate at a water depth of up to 2000 meters. It supports three deployment and recovery modes: A-frame + steel rope winch + cable winch mode, A-frame + load-bearing cable winch mode, and cantilever crane + cable winch mode. Its operation and maintenance are simple.



Fig. 1:VCG550 Axonometric Drawing

2. Technical Specifications

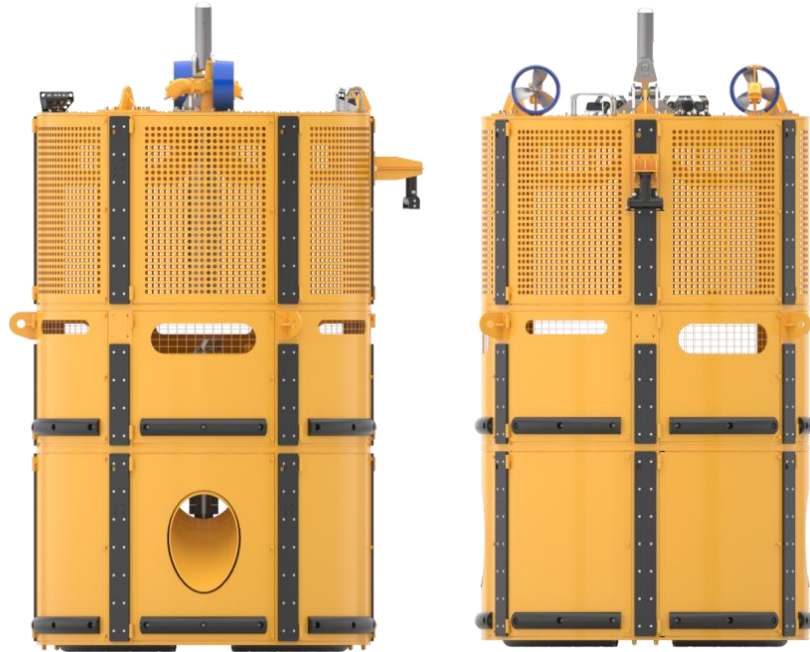


Fig. 2:VCG550 Front View

ROV System

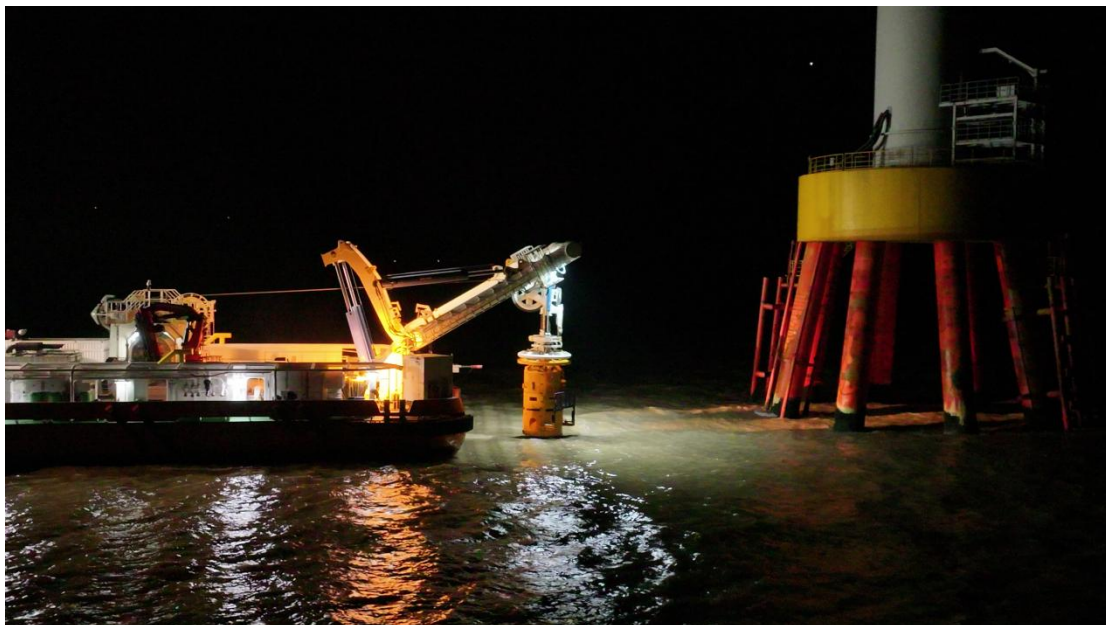
Basic parameter

Power	200kW x 2
Dimensions (D×H)	φ2400 x 4300mm
Weight in air	9t (in air)
Hydraulic Oil	Hydraulic oil No. 32
Depth rating	2000msw (option up to 3000msw)
Gully propeller	6 x THR.Y420
Vectoring Thruster	2 x THR.Y300
Speed	0-2.2km/h

Performance	
Single trenching depth	2.5m
Single trenching effective depth	1.8m
Single trenching width	4.2m
Secondary trenching effective depth	2.5m
Secondary trenching width	5m
Jet pump	200m ³ /h, 7bar
Trenching speed	0.2km/h-0.4km/h
Hydraulic system	
Power	200kWx2
Valve block	Compensated aviation aluminum valve block
Compensator	6 x2.5L+2 x 10L deepsea compensator
Underwater electrical components	
Electrical compartment	Deep water pressure vessel, rated working depth of 2000m
Data transmission	Multi channel fiber optic adapter
Junction box	1 x Deepwater junction box, built-in transformer
OEM	
Camera	7x 2 million pixel color camera
Light	7 x 50W LED light
Sonar	2 Set

Obstacle-Avoidance sonar	1 Set
3D imaging sonar (optional)	1 Set
Underwater instruments	
Heading	Fiber optic gyroscope
Depth	Altimeter、 Depth gauge
Deck unit	
Control container	10'container x 1
Electrical system	1 x 10'container , 3000V
Cable trays	Customization
Winch	Customization
Lifting equipment	13t Cantilever crane,13t A frame

3. Product Application



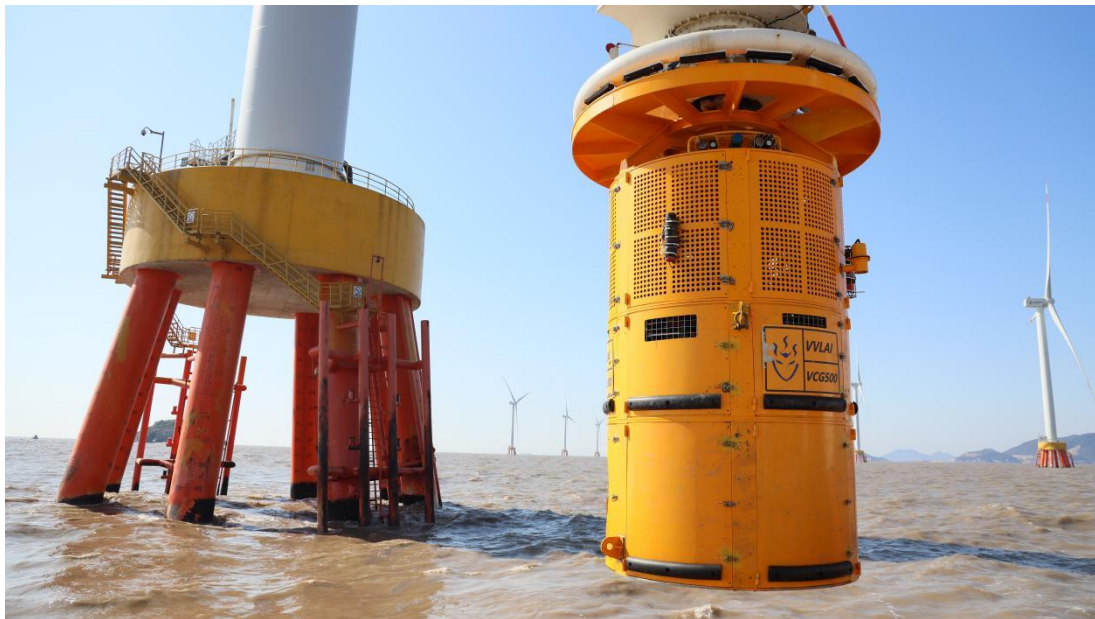


Fig. 3、4、5、6:VCG550 Wind farm construction drawing



Fig. 7:VCG550 Trencher launch and recovery



Fig. 8:VCG550 Trencher splashdown



Fig. 9:VCG550 Trencher descent

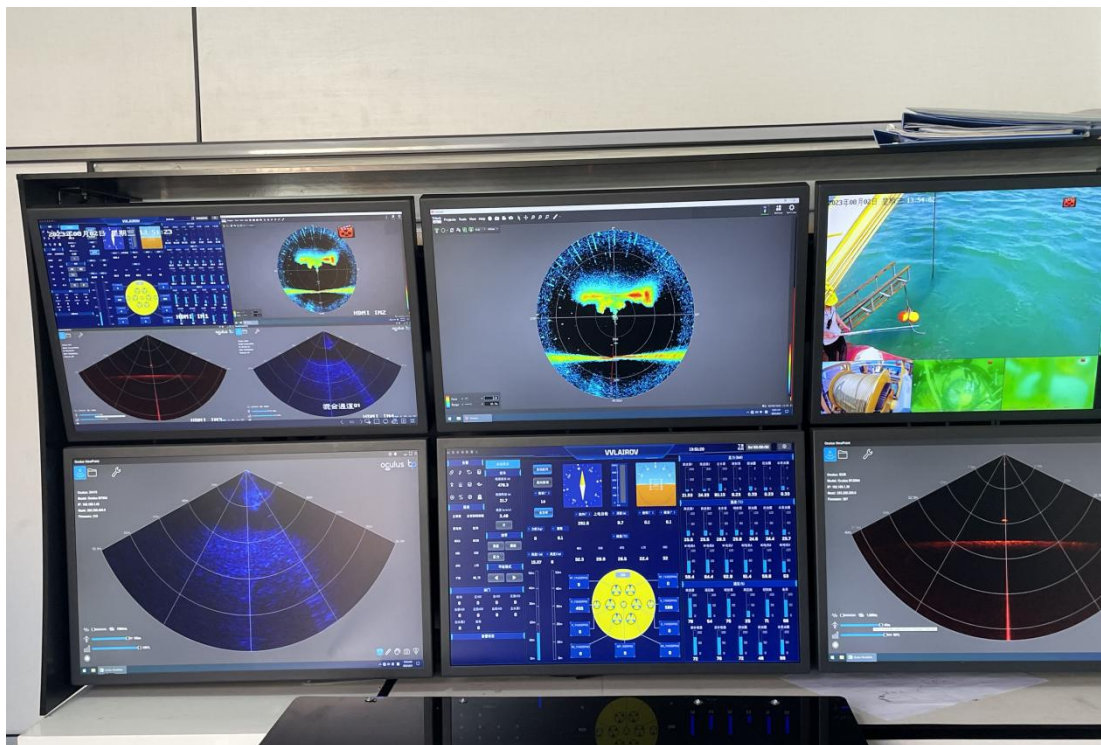
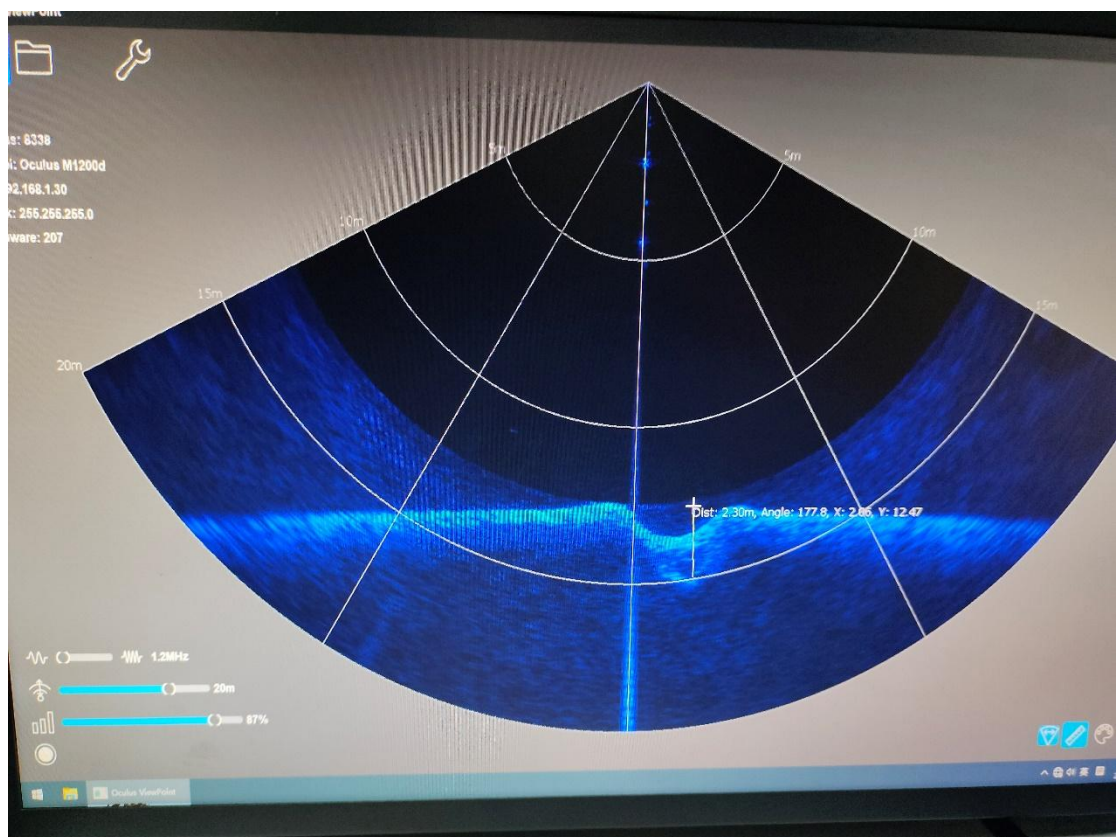
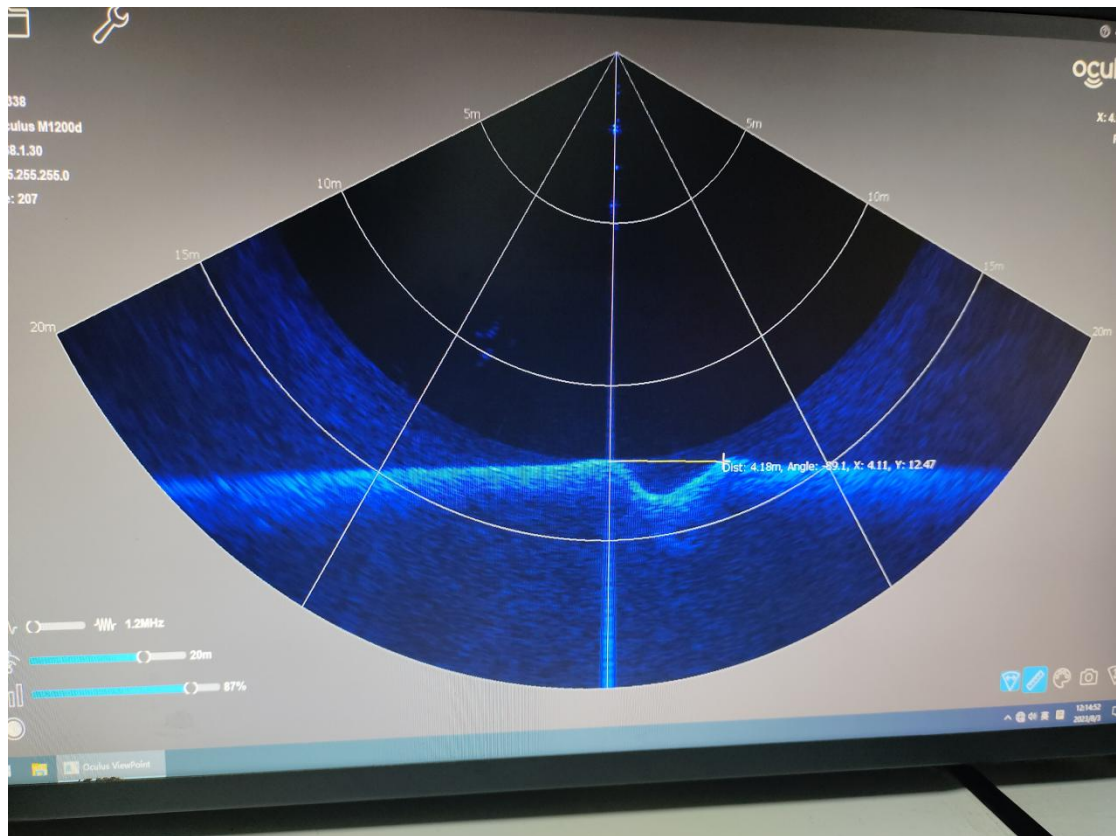


Fig. 10:VCG550 Trencher control and monitoring



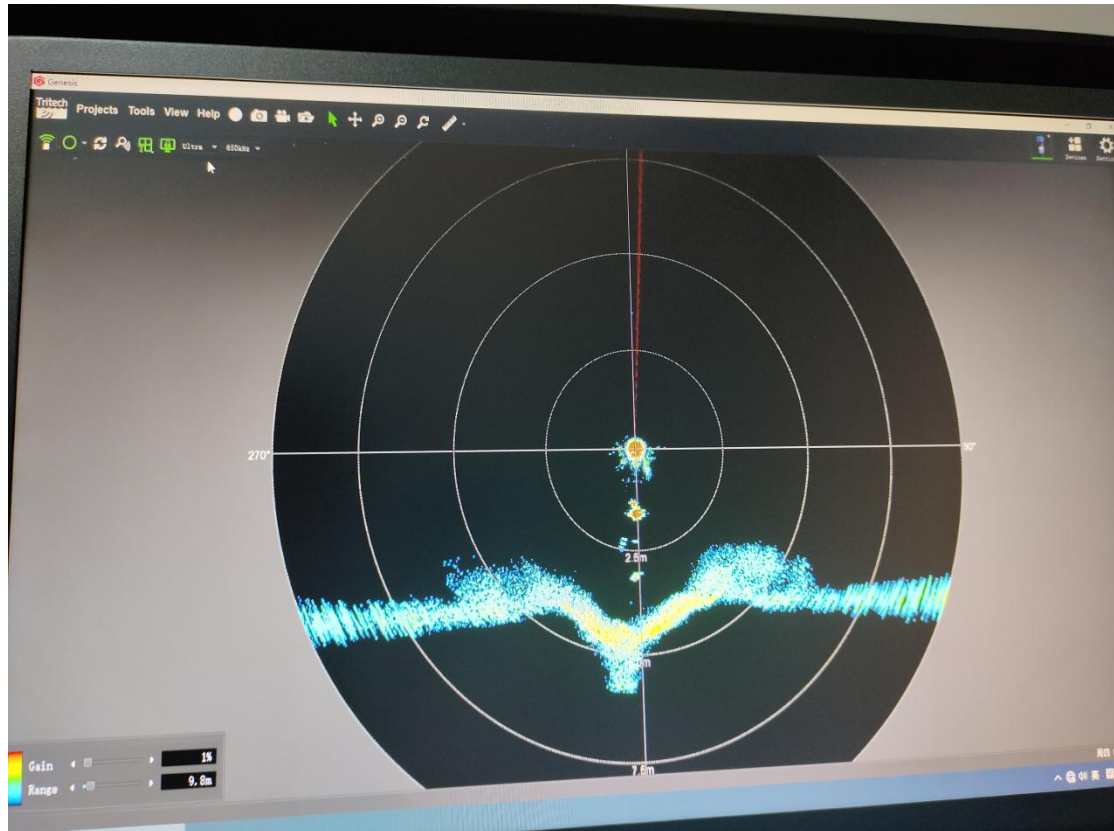


Fig. 11、12、13: Sonar data



Provide World-class
Integrated Solutions for Deep-sea Equipment

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