



MBCS

ALMARWANIA

FOR BROKERAGE AND CONSULTANCY SERVICES CO.

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Al-Marwania is a marine brokerage company established in Bahrain on Jan 2022. Al-Marwania based on the large worldwide connections extended from Sweden, Norway and British on North area to Malaysia, Indonesia and Australia in South.

Also we have our communication in China, Vietnam in the fare East to Argentina in the fare west.

Further to this strong network we have strong background about the market needs in the middle East area extended from Algeria to Saudi.

Our services mainly to guide and support our clients for the proper solutions and services support their projects on the most effective ways in terms of cost and quality.

MBCS (Divisions & Activities)



MBCS Brokerage Division



MBCS Marine Management & Consultancy Division



MBCS Shipping Division



MBCS Trading Division

MBCS Goals

Safety and Sustainability:

insuring save navigation practice regarding our shipping deals and goods quality and environmental commitment to complying with international conventions.

Customer Satisfaction:

Providing high quality services meeting customer needs and offering alternatives including timing and reliable services.

Professionalism and Reputation;

Dealing with high qualified professional international traders, investing in following market changes in order to providing exceptional services.

Innovation & Growth;

Keeping updated with ports states & IMO new regulations in order to select the most proper vessels and avoid any port state detention also to provide better serve customers and expand their business.



MBCS



MBCS Brokerage Division

MBCS is the local Broker and part of global Broker network all over the world.
Our brokerage activities including but not limited to;

Ports services boats (mooring tugs, docking tugs, oil recovery, garbage collections boats, pilot boats and Nav-Aid boats...etc).

AHTS,...etc).

-PSV, DP2-

Jackup barges and hookup projects barges and utility vessels

Sea going vessels (Cargo, RORO, Tankers, Bulk Carrier,...etc).

Our clients included;
PMS, Maridive, IMCC, ATCO, Team Shipping, Zamil, Sora,...etc.

MBCS Shipping Division



MBCS shipping is servicing our clients in the Middle East in the shipping services as per below activities.

CHARTERING

Dry Bulk Cargoes
General Cargoes
Tankers

FREIGHT FORWARDING

Door to Door Solution.
Trucks.



MBCS

MBCS Global Clients

Pan American
ENERGY

Cargill

PROFERTIL

BOORTMALT

GLENCORE
INTERNATIONAL AG

newsen

BUNGE
200

TERRA NOVA
TRADING

BAHIA GRANDE

CARDAMA

ABInBev

BUNGE
ALIMENTOS

ARBI

MHERRA ALUMINERA
YEMAM - UTE

Idin oil

Acindar
Grupo ArcelorMittal



Marine Management & Consultancy Division.

MBCS Marine Services Castle MSC

- **Ship Management :**

MBCS capable to provide vessels management services according to Shipman BIMBCO contracts including services of (Crewing, Technical, insurance, operation and commercial).

- **Commercial Consultancy :**

MBCS can support our customer in tendering proposal for ARAMCO & KJO and ADNOC. Our support including (Tender review, management method, Penalty Matrix, Consideration factors, Income statement and Cash flow management).

- **Shipyards Activities :**

MBCS has wide experience with region shipyards extend from Egypt to GCC. We can support our client to manage his ships drydocking including (quotation / invoices discussion + technical management)

- **ISM Auditing :**

MBCS can support our client to have, review, approved their company system according to marine Flags (Panama, Belize, Ecuador, and Liberia).



MBCS



MBCS Trading Division.

MBCS support our clients for trading brokerage (Import - Export) for the below fields :

- 1- Sunflower Oil (Crude & Refine)
- 2- Soy Oil (Crude - Bulk Shipping)
- 3- Sugar (Bulk Shipping)
- 4- Coal (Bulk Shipping)
- 5- Clinker (Bulk Shipping)

Cable laying , deck equipment and appliances

Our company has an exclusive agreement with Chinese company for the following equipment buy or hiring

Tensioner



A/R winch



Roller Delivery System



Cable Laying Machine



Double-Drum Cable Winch



Spooler



Umbilical Winch



Cable Burying-Ditching Machine



Ancillary Products:

- Steel Wire Rope Dynamometer
- Steel Wire Rope Dynamometer
- Steel Wire Rope Lubricator



CABLE LAYING AND DECK EQUIPMENT

1- TENSIONER



APPLICATION & CHARACTERISTICS

The Tensioner has the main function to apply to the pipes the required tension load, allowing to lay the product spooled out from fixed or portable carousels, baskets or driven reels (storage device) up to the maximum reachable speed.

Tensioner is installed in middle or tail part of vessel to clamp pipelines with different diameters and then deliver pipes under the sea through conveyor system. Through the whole pipe welding process, tensioner keeps a constant tension onto pipes. It means that, when the vessel moves, tensioner can deliver pipes to seabed with constant tension to eliminate the influence of vessel moving or sea wave reciprocating. The control system of this kind of tensioner is auto controlled. We already manufactured 50T and 75T tensioner that attested in projects, and we can also design and manufacture for specific demands.



STRUCTURE

Tensioner is made up by 6 parts: Top actuating device, bottom actuating device, foundation, guide frame, hydraulic control system and electric control system. The equipment is mainly composed by welded steel structures on which other subassemblies are installed. 4 or 2 tracks constrained to the main structure driven by AC electrical motors or hydraulic motors and clamping the pipe and allowing, by friction, to keep the pipe line.



POWER FAILURE.

	Tension (KN)	chucking power (KN)	(mm)	inclination	(m/min)	system pressure (Mpa)	(kw)	(mm)	(T)
50T	500	550	101~1524	5°	27	20	180	6000*2428*5110	52
75T	750	800	101~1524	5°	27	20	520	7123*2428*5120	78
100	1000	1100	101~1524	5°	27	20	560	7518*2428*5408	103

A/R winch

Application

A/R winch is used with tensioner during the pipe laying project. When weather goes bad or other emergency situation happen, A/R winch can deliver pipes to seabed directly to make sure the vessel back to shipyard as soon as quickly. When vessel goes back to working place the A/R winch can also pulls pipes out of the sea and move back to tensioner.



Characteristics

Auto control & constant stress

Control System

Same as tensioner that deliver an electric signal from sensor to electric system and then to hydraulic system. distant control and on-site control are available. Distant control can have installed on tensioner for convenience

	Drum loading (KN)	Rope speed (m/min)	Rope diameter (直径mm)	Rope capacity (m)	压力 Max working pressure (Mpa)	压力 Break pressure (Mpa)	power (kw)
50T	500	收: 0~9 放: 0~27	52	500	21	7	264
75T	750	收: 0~12 放: 0~27	56	510	21	7	400
100T	1000	收: 0~12 放: 0~27	60	600	21	8	760

2-CABLE LAYING MACHINE

APPLICATION & CHARACTERISTICS

Cable laying machine also called mini clammer which is used in marine pipe laying project to deliver cable or tube from vessel ship to seabed. Same as clammer, cable laying machine can deliver cable with constant stress automatically.



CONTROL

Electric cabinet and hydraulic system are all installed onto the machine. Tension and stress are all displayed through pressure gage that measured by sensor. Hydraulic system has unloading gear to make sure the system keeps unloading during long time cable laying with constant stress. As a result, all the system can save power. We also design a sensor on transmission shaft to display the length already pushed/pulled of the cable.

PARAMETER

型号 Type	工作张力 Working stress (KN)	夹持范围 Diameter range (mm)	工作速度 Working speed (m/min)	工作压力 Working pressure (Mpa)	功率 Power (kw)
2T	20	60~220	0~8		4
5T	50	60~220	0~10		8
10T	100	60~300	0~10	16	22
15T	150	60~300	0~10	16	37
25T	250	60~300	0~10		60

3-ROLLER DELIVERY SYSTEM

APPLICATION

Roller delivery system is an assist device to deliver pipes to clamper. After pipes delivered in place the centering device can adjust two pipes concentric. All the system can self-adjust to suit pipes with different diameters. Roller delivery system is designed depends on different working environment, generally, includes: lengthways delivery roller, sideways device, front centering device, back centering device, three-wheels' support, four-wheels' support and U type roller device.



4-UMBILICAL WINCH

APPLICATION & CHARACTERISTICS

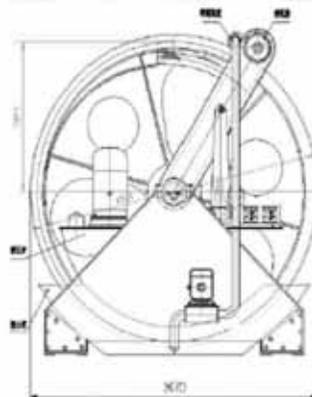
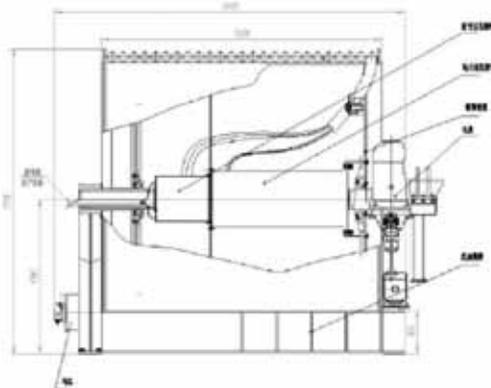
Umbilical winch is used in undersea ditching project to provide power and control the movement of cables. Our umbilical winch is controlled by hydraulic system that all the pipe abandon and pipe retrieval processes are controlled automatically with constant stress.



STRUCTURE

Umbilical winch is united by 6 parts: foundation (include water tank), reduction gear, support device, drum, wire line system, slip ring, hydraulic and electric control system.

Hydraulic motor drives reduction gear to form a torque to drum to accomplish draw-in and let-out cable. The wire line system with encoder can display the stress, speed and length of the cable through it. Foundation can be welded on deck.



Control

Electric cabinet and hydraulic system are installed on lateral of umbilical winch. Stress and pressure are displayed through sensor. Hydraulic system include unloading device that make sure during long time cable laying process the hydraulic system keeps unloading with constant stress to save power. Transmission shaft of the umbilical winch settled encoder to show the length and speed that cable go through.

Parameter

张力 Stress	滚筒容量 Drum loading (kn)	绳速 Rope speed (m/min)	脐带规格 Umbilical diameter (直径mm)	容量 Rope capacity (m)	最高工作 压力 Max working pressure (Mpa)	刹车开启 压力 Breaking pressure (Mpa)	功率 Power (kw)
6T	60	收 In: 0~10 放 Out: 0~20	66~102	~350	14	2	22



全封闭式脐带绞车
Whole Sealing Umbilical Winch

5-CABLE BURYING-DITCHING MACHINE

APPLICATION & CHARACTERISTICS

This machine is used to lay pipes under sea. Vessel puts cable burying-ditching machine into the sea and controls it to work. The biggest advantage of this machine is can finish burying and ditching progress at the same time, which save lots of time and cost.



Structure

The burying and ditching machine is made up by 6 parts: 2 skids, middle supporter, 2 high pressure pumps, plow body, umbilical winch, hydraulic/electric control system and testing system.

Skids on both sides contact with seabed, float bowls can be installed on it to reduce pressure between the skids and seabed.

Angle between skids and seabed is controlled by hydraulic cylinder, and locked by lock cylinder after the skids in demanded place.

There are two doors under plow body to load and unload cable quickly.

All the burying and ditching progress is controlled automatically.

Umbilical winch provide electric power and control cable to the burying-ditching machine.

Control

Burying-Ditching machine and umbilical winch both use one hydraulic system. Umbilical winch is driven by hydraulic motor and synchronous move with burying-ditching machine.

Tension control-protect device can protect the umbilical cable out of stress.

Burying-Ditching machine is also equipped a host winch to connect the pipeline between hydraulic unit to host machine.

Technical Parameters

Suitable water depth : 50m
Laying depth : Under seabed 2~4 m
Cable Size : ~Ø300 mm
Pump pressure : 4Mpa
Motor power of pump : 2X450KW
Motor power of hydraulic unit : 22KW

Suitable water depth : 5~60m
Pressure : 0.5~1.5Mpa
Depth : 2~4m
Motor power : 850~1200KW
Equipment weight: 50T
Size : 9.2*8.6*2.8m



6-DOUBLE-DRUM CABLE WINCH

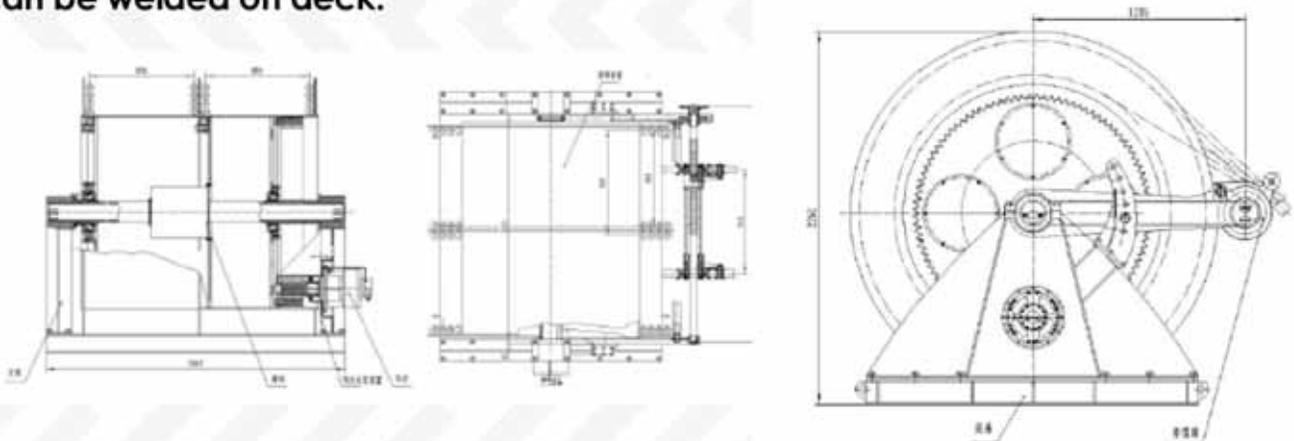
APPLICATION & CHARACTERISTICS

Double-Drum cable winch is used in marine ditching project to provide power can control cable to burying-ditching machine. Characteristics of this machine is auto control with constant stress during the whole process of pipe abandon and pipe retrieval.

Structure

Double-Drum cable winch is united by 6 parts: foundation (include water tank), reduction gear, support device, drum, wire line system, slip ring, hydraulic and electric control system.

Hydraulic motor drives reduction gear to form a torque to drum to accomplish draw-in and let-out cable. The wire line system with encoder can display the stress, speed and length of the cable through it. Foundation can be welded on deck.



Control

Electric cabinet and hydraulic system are installed on lateral of double-drum cable winch. Stress and pressure are displayed through sensor.

Hydraulic system include a unloading device that make sure during long time cable laying process the hydraulic system keeps unloading with constant stress to save power.

Transmission shaft of the umbilical winch settled a encoder to show the length and speed that cable go through.



技术参数 Technical Parameters

张力 Tension	卷筒负载 Drum loading (kn)	绳速 Rope speed (m/min)	电缆规格 Cable Size (\varnothing :mm)	容绳量 Rope Capacity (m)	最高工作 压力 Max. Pressure (Mpa)	刹车开启 压力 Break Pressure (Mpa)	功率 Power (kw)
4T	40	收 pull: 0~10 放 push: 0~20	64	2x300	18	2	15

7-SPOOLER

APPLICATIONS

Spooler can wind rope/wire onto winches that is widely used on engineering ships and drilling platforms. During spooling process, spooler can insure the tension of the rope constant. In the same time, all of our spoolers are designed suitable to various size of rope/wire.



CHARACTERISTICS

Efficient; auto control; suitable to various size/weight of rope/wire; reliable; easy to use; adjustable to wide range of tension.

Turn key project.

Design for specific demand.

Short manufacturing cycle



STRUCTURE

Spooler is made up by 6 parts: foundation, stable part, removable part, oriented transverse device, clamp device, hydraulic and electric control system.

CONTROL

Pressure of the hydraulic motor will be increasing after rope/wire tensioning. Hydraulic system controlled by proportional pressure valve to stepless adjust the pressure of the hydraulic motor.

There are 10 tap positions are designed that stress can be adjusted from level 0 to level 10. Retaining mechanism uses hydraulic lock and energy accumulator to make sure the removable part keeps clamping during power failure



TECHNICAL STATEMENT

型号 Type	卷筒最大吨位 Max Drum Weight (T)	最大张力 Max Tension (T)	最大卷筒直径 Max Drum Diameter (mm)	卷筒宽度 Max Drum Width (mm)	功率 Power (KW)	外形尺寸 Size (mm)
30T	30	5	2800	700-2500	30	5324*2000*2135
65T	65	15	3300	500-3100	45	5600X2000X2500
90T	90	15	3600	2100-3500	45	8000X2300X2700
120T	120	20	4000	1470-4000	55	6500*2300*2970
250T	250	0-38	5600	1400-6000	90	8300X2300X3710
500T	500	0-103	7800	9000	200	14000X7000X5200



ANCILLARY PRODUCTS:

Steel Wire Rope Dynamometer

Steel Wire Rope Dynamometer

Steel Wire Rope Lubricator



APPLICATION CASE

年份	产品 Product	地点 Location	张力 (T) Tension	数量 Quantity	用户 Customer	船坞 Shipyard
2014.1.10	直径 Dia:52mm 长度 Length:1000m 6*36IWRC*2pc	AHTS	7	2	SPX JAASON67	GuangXin offshore heavy industry
2014.1.10	直径 Dia:52mm 长度 Length:1000m 6*36IWRC*2pc	AHTS	7	2	SPX JAASON68	GuangXin offshore heavy industry
2014.1.15	直径 Dia:56mm 长度 Length:1000m 6*36IWRC*4pc	298P Living Barge	8	4	BELAIT CSS I	Fuzhou LiYa Shipyard
2014.2.10	直径 Dia:56mm 长度 Length:1200m 6*36IWRC	STG-45M	5	1	JASCON 78	JiangSu JiuLong Shipyard
2014.3	直径 Dia:38mm 长度 Length:3800m	CNOOC 289	15	1	CNOOC 289	ShenZhen CNOOC
2014.4.10	直径 Dia:50mm 6*36IWRC*4pc	Dockwise	15	4	Black Marlin	Nantong Cosco
2014.4	直径 Dia:13mm 长度 Length:10000m	State Oceanic	2	1	HaiDaHao	QingDao Ocean University
2014.4	直径 Dia:64mm 长度 Length:750m 6*36IWRC*2pc	HuangPu	10	2	HuangPu 3001	Semi-Lifting Vessel

用户 Customer	船名 vessel	项目 Project	完工日期 Finish time
厦门船舶重工 XiaMen Shipbuilding	柏达纳绿宝石号 SK312	4台 50T 定位绞车 4*50T locating winch	2012.12
PW Offshore Co., Ltd.	HDF2006-28	3750 PWT Oil Tanker 600T 起重起吊机	2013.6
福州华东船厂 Fuzhou Huadong Shipyard	半潜自航式辅助平台 Living Conner	4台 50T 定位绞机 4*50T locating winch	2013.5
广州黄埔船厂 GuangZhou HuangPu Shipyard	南海2号半潜式平台	4台 100T 定位绞车 4*100T locating winch	2013.8



MBSCS

VY150

NATIONWIDE PRODUCTION OF 3500M HEAVY LOAD OPERATING ROV

VY150 is independently developed and manufactured by the company, with a localization rate of 100%. For the first time, it has made breakthroughs in deep-sea operation level ROV high pressure resistance, navigation and positioning, power, communication transmission, and multi equipment collaborative operation technology, and is equipped with independently developed TMS to achieve deep water operations. It is applicable to deep-sea resource exploration and production, submarine cable/pipeline laying, military safety, etc.

TECHNICAL DATA

IMPETUS	115KW/150HP
DEPTH	3500MSW
LEVEL	2.95MX1.90MX1.85M,4.3T
BOLLARD PULL	ADVANCE>1.6M/S, SIDEWAYS>0.8M/S REAR PULL 700 KG



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VYL200

DEEP-SEA CABLE LAYING ROV

VYL20 is suitable for deep sea optical cable, cable, pipeline construction, and other operations. It is the first intelligent operation equipment with high water depth and strong current resistance in China, and has intelligent technologies such as underwater walking, suspension mobility, precise navigation and positioning, cable detection, cable tracking, and cable burial.

TECHNICAL DATA

OPERATING DEPTH	1500M
SIZE (L×B×H)	4M*4.2M*3.1M
TRENCHING SPEED	0-2KM/H
INJECTION POWER	100KW
PRESSURE	5 BAR (500M3/H)
DEGREE CONTROL	0 - 1500MM
WIDTH CONTROL	100 - 400MM (射腿之)



MBSC

VYL550

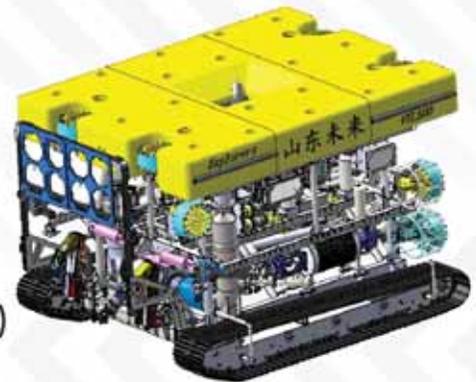
DEEP-SEA CABLE LAYING ROV

The operating depth of the Explorer VYL500 can reach 2000 meters, with a power of 500 Hp.

It is mainly used in submarine pipeline laying, burial, cable recycling, cable maintenance and removal, etc. It is mainly applicable to the laying and excavation of cables in deep water environments, consisting of sandy soil, clay non cohesive base, and cohesive soil.

TECHNICAL DATA

DEPTH	2000M
SIZE (LxBxH)	5.5M*4.1M*3.3M
TRENCHING SPEED	0-2KM/H
POWER	340KW (最大/两☒)
PRESSURE	5 BAR (900M ³ /H)(一☒)
DEPTH CONTROL	0 - 2000MM
WIDTH CONTROL	125-500MM (☒射腿之☒)



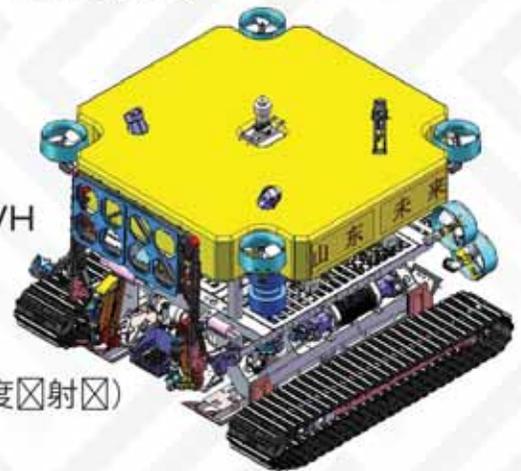
VYL750

DEEP-SEA CABLE LAYING ROV

The operating depth of the Explorer VYL750 can reach 2000 meters, with a power of 750 Hp. It is mainly used in submarine pipeline laying, burial, cable recycling, cable maintenance and removal, etc. It is mainly applicable to the laying and excavation of cables in deep water environments, consisting of sandy soil, clay non cohesive base, and cohesive soil.

TECHNICAL

OPERATING DEPTH	2000M
SIZE (LxBxH)	4.6M*4.65M*3.0M
SPEED	0-2KM/H
POWER	440KW (最大/两☒)
PRESUURE	6 BAR (1000M ³ /H)(一☒)
DEPTH CONTROL	0 - 2000MM
WIDTH CONTROL	0 - 3000MM (两套不同☒度☒射☒)
	100 - 600MM (☒射腿之☒)



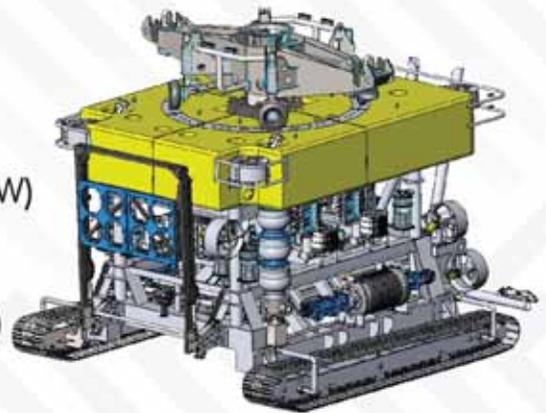
VYL1100

DEEP-SEA CABLE LAYING ROV

VYL1000 has a sludge discharge mechanism, with a trench width of 600mm and a depth of 3000m; The efficiency of trenching has been enhanced. The power and pressure of the water pump increase the flow rate, enhance the groundbreaking ability. The more reasonable layout of the propeller improves the flow resistance performance. The chassis has a high ground clearance which increases off-road performance and reduces the risk of vehicle sinking. The unique high shoulder design improves the underwater anti-skid ability.

TECHNICAL DATA

OPERATING DEPTH	2000M
SIZE (L×B×H)	5.7M*5.2M*3.6M
SPEED	0-2KM/H
POWER	600KW (含排泥功率2*55KW)
PRESUURE	9 BAR (2*800M ³ /H)
DEPTH CONTROL	2000-3000MM
WIDTH CONTROL	100 - 700MM (☒射腿之☒)



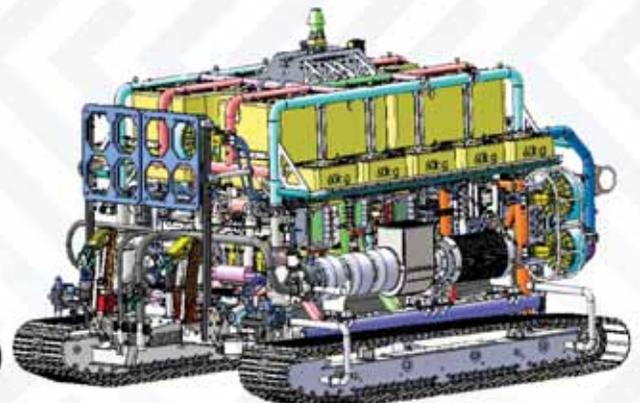
VYL900Q

OFFSHORE TRENCHING AND LAYING ROV

VYL900Q Shallow Sea Cable Laying Robot is a offshore cable laying robot developed by our company for domestic customers. Low investment, full functionality, and high cost- effectiveness are the core design concepts that run through the entire equipment.

TECHNICAL DATA

OPERATING DEPTH	300M
SIZE (L×B×H)	5.5M*4.8M*3.6M
SPEED	0.5KM/H
POWER	2X320KW
PRESUURE	7.5BAR, 2X900M ³ /H
DEPTH CONTROL	3200MM
WIDTH CONTROL	650MM (☒射腿之☒)



VCG500

UNDERWATER TRENCH BLOWER

The trenching machine is applied to the trenching of underwater oil pipelines, with fast trenching speed, large depth, and relatively stable route.

The trench blower is towed by a work boat for operation, and the top thruster maintains the working posture to prevent the trench blower from rotating in the water and causing cable damage;

The high-pressure jet pump is driven by the underwater power pump station to break the soil, and the hydraulic thruster is used to form a trench.

TECHNICAL DATA

DIMENSIONS,	Φ2400×4300MM
WEIGHT	T8.6T
WORKING DEPTH	2000M
POWER	400KW
RUSH THRUSTER	6XTHR.Y420
HOLE THRUSTER	2XTHR.Y300
P IMPULSE LOAD	8BAR, 200M ³ /H
TRENCH DEPTH	2.5M
TRENCH WIDTH	5M (土壤结构决定)



ZYL1000

HEAVY CABLE LAYING ROV

The ZYL 800 cable laying robot has a maximum operating depth of 2000 m and a maximum expansion power of 1600 Hp. It mainly uses high-pressure water jets to excavate trenches on the seafloor and uses its own mechanical mechanisms to complete cable laying. And the sprocket trenching module can be replaced according to the on-site soil conditions.

TECHNICAL DATA

DIMENSIONS	18MX6.5MX4.5M
WEIGHT (AIR)	35T
WEIGHT (WATER)	28T
INJECTION POWER	200KW X2
EJECTION LOAD	300KW X2
DEPTH	5-15BAR, 1000-2000M ³ /H
SOIL PRESSURE	1000M
MAX CLIMBS	10KPA
SEA CONDITIONS	20°
	5 LEVEL



VBZ500-5T

GRAVITY SALVAGE ROV

The robot adopts a modular design and is equipped with a clamping mechanism as standard. The following functions can be selected and configured according to customer task requirements: irregular object salvage claw, dual 7-axis hydraulic mechanical arms+crawler traveling chassis, deep-sea sonar search platform, sunken ship salvage lug fixing mechanism, and robot lifting and lowering system (A-type gantry) to meet user personalized requirements.

TECHNICAL DATA

☒力	5KW
WORKING PRESSURE	16MPA
SIZE (L×B×H)	1.88X1.54X3M
DEPTH	500M
WEIGHT	5T
SEA CONDITIONS	4LEVEL
	1.5M
	±90°



VBZ500-2T

GRAVITY SALVAGE ROV

The main control part of the water surface includes a control system, power distribution system, and winch system, achieving the operation and control of underwater grippers and detection sensors, displaying and storing optical and acoustic detection data, real-time monitoring of underwater status, high-precision positioning of the water surface, and other functions. The underwater gripper is used to capture underwater targets.

TECHNICAL DATA

IMPETUS	20KW
WORKING PRESSURE	16MPA
(SIZE L×B×H)	2.07MX1.39MX2.06M
DEPTH	500M
WEIGHT	2T
SEA CONDITIONS	4 LEVEL
GRIP OPENING	0.3-0.61M
WIRE ROPE SWING ANGLE	3.7°



VBZ45-80T

GRAVITY SALVAGE ROV

TECHNICAL DATA

IMPETUS	150-240KW
WORKING PRESSURE	21MPA
SIZE (L×B×H)	3.2X2.8X5M
DEPTH	500M
GRIPPING QUALITY	45-80T
SEA CONDITIONS	4☒
DEGREE	3M



VLD600

DEEP SEA EXPLORATION AND MINING ROV

In 2015, the company took the lead in developing a set of 500 ton/day seabed polymetallic nodule mining robots. Adopting independent patented filtering mining sorting technology, the mining and sorting process can be completed in one go, with efficient and stable operation. 3000 meter underwater filtration mining work efficiency 300-400m³/h. The single lifting weight of the platform reaches 4000 tons, and the lifting speed of the ore box reaches 1m/s. Becoming the world's first commercially successful underwater filtering mining robot.

TECHNICAL DATA

DEPTH	600-3000M (定制)
SIZE (L×B×H)	6000X1950X2500MM
WEIGHT	5T
VELOCITY	5-26M/MIN



VDQ100A

OPEN CAISSON CUTTER SUCTION ROBOT

Faced with the strategic needs of marine power, the company's independently developed large-scale bridge construction cutter suction robot and auxiliary operation common centralized lifting platform successfully overcome the difficulty of air suction dredgers being unable to suck mud in silty clay soil. The blind area soil extraction technology fills the domestic gap, achieving efficient and accurate soil extraction in the borehole, with a soil extraction efficiency of 4-6 times higher than traditional operations, ensuring visible, measurable, and controllable subsidence during the safe construction of open caisson.

TECHNICAL DATA

FLOW RATE : 350M³/H
HEAD : 60M
SEWAGE CALIBER : 200MM
VIFORM PARTICLES : 80MM
CLIMB GRADES : ≤20°



VVL RFZ06

ROV

ROV TRAINING SIMULATOR

The VVL RFZ06 simulation system fully integrates the functions of the ROV control system to achieve true and effective job training. Through the VVL RFZ06 simulator, students can choose a variety of ROV models for simulation training, with built-in task packages such as drilling vessel inspection, subsea pipeline detection, missing AUV search, oil platform inspection, mooring anchor inspection, and mud suction machine. The VVL RFZ06 simulation system is completely consistent with the real ROV system. It integrates scanning sonar simulators, instructor remote control functions, and provides ROV simulation teaching through visual feedback.



CORE COMPONENTS

SEVEN-FUNCTION ROBOTIC ARM

WEIGHT IN AIR : 100KG
MAXIMUM REACH : 2000MM
DEPTH : 3500M
DISTAL SNATCH : 150KG

FIVE-FUNCTION ROBOTIC ARM

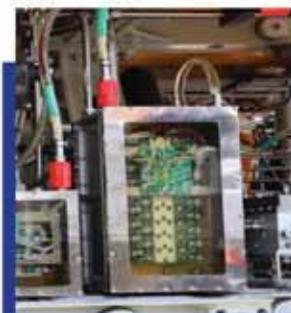
WEIGHT IN AIR : 80KG
MAXIMUM REACH : 1500MM
DEPTH : 3500M
DISTAL SNATCH : 175KG



CORE COMPONENTS



CORE COMPONENTS



MBCS

Thanks a lot for your time

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YOU HAVE ARRIVED AT YOUR SAFE DESTINATION

