



赋能深海卓越:为应对深海作业而打造的刷具、篮筐和水下机器人辅助工具!

Empowering Subsea Excellence:
Brushes, Baskets, and Underwater Robot AIDS
Built for Deep Sea Operations!





目录 Content

公司简介 About Us

自 2010 年以来,我们一直向北海供应海上/海底产品,我们的客户也在世界各地使用它们,包括篮子、鱼尾手柄、刷子、切割工具、扭矩扳手、钻孔工具······我在后面随附一些照片供参考。

我们在中国和挪威拥有自己的设计团队和加工车间,拥有完整专业的内部设计工艺和技术,并且采用了 OEM 生产模式。能够对海底作业的特殊需求做出非常快速的反应。

例如,我们根据客户的想法制造了 25Te ROV 操作卸扣,该卸扣已于 2019 年在北海通过了实际测试,目前我们正在进行12Te 和 35Te 卸扣的开发设计;我们开发了液压水下磁铁以满足不同需求的海底作业,该设计于 2020 年 6 月获得专利。

Since 2010, we have been supplying offshore/subsea products to the North Sea, our clients also use them in all of the world, including baskets, fishtail handles, brushes, cutting tools, torque tools, drilling tools...

We have a complete and professional design in house process and technology, and adopt OEM production mode. With our own designing team and workshop in China and Norway, we are able to react very fast for special demand of subsea work.

For example, we manufactured 25Te ROV operated shackle accord to client's idea which has been approved by practical test in the North Sea in 2019, currently we are developing 12Te & 35Te shackles; we have developed hydraulic magnet to meet variety subsea work demands, it was patterned in June, 2020.



产品目录 Product Content



液压链锯 液压剪刀 液压软吊索切割器

水下机器人打磨机

Hydradulic Cainsaw
Hydraulic Scissors
Hydraulic Soft Sling
Cutter
ROV Grinder



史丹利 IW12 液压冲击扳手 史丹利 IW16 液压冲击扳手 扭矩工具

Stanley IW12 Impact

WrenchStanley IW16

Torque Tools









一 气体取样器 取样瓶

Gas Sampler Sampling Bottle



鱼尾式 ROV 手柄ROV 刀嵌入鱼尾带法兰的 ROV 手柄

Fishtail ROV handle ROV-knife ROV handles with flange



海底吊篮 Subsea Basket

10 英尺篮子 10ft basket 13 英尺篮子 13ft basket 20 英尺篮子 20ft basket



液压磁铁 Hydraulic Magnet 水下机器人链式 ROV Chain Hoist 起重机

卸扣 Shackle





不锈钢钢丝刷刷

Stainless steel wire brush Brush-polyurethane 聚氨酯刷 Multi-purpose-brushing-

多功能刷 tool

PU刷 PU Brush

Brass-chain-brush-tool 黄铜链条刷



切割工具 Cutting Tools



水下液压链锯

Subsea hydraulic chain saw.



切割电线、软吊带、液 Cuts wire, soft slings, hydraulic 压软管、圆杆等。 剪刀可以修改, 以方便进入工作现场。 剪刀尺寸: 180, 260 和 270 毫米 还有一种更小的 剪刀可供选择。 可切割 28-32mm 圆棒。 电源输入: 175Bar 输出功率: 700Bar 其它: 内置助推器

hoses, round bar, etc. The scissors can be modified to ease access on the job site. Scissor Size: 180, 260 & 270 Also a smaller version of the scissors is available. Can cut round bar from 28-32mm.

Power input: 175Bar Power output: 700Bar Other: Built-in booster



海底液压软吊索切割器 Subsea soft-sling cutter 叶片尺寸: 300mm。

Blade size: 300 mm.



用于极端水下螺栓连接 Designed for extreme 这款真正的多功能超级 underwater bolting 设计的。 磨床可以切割几乎任何 steel materials.

金刚石刀片。

超级磨床由弯轴可变<u>位</u> mm. diamond blade. 个方向上运行。

多功能超级磨床 - 设计 Versatile Super Grinder-磨床是为快速有效地切 This truly Versatile Super Grinder 割混凝土和钢铁材料而 is designed for quick and effective cutting of concrete and 东西与它的 300 毫米的 The grinder can cut through

almost anything with it's 300 移电机驱动,可以在两 The Super Grinder is powered

by a bent axis variable displacement motor, and can run in both directions.

扭矩扳手 Torque Tools



IW16 液压冲击扳手,适用于 16 GPM (加仑每分钟)的液压流量 带 1 英寸连接,非常适合海底螺栓连接作业。

Stanley IW16 with 1 inch connection. Perfect for subsea bolting operations.



IW12 冲击扳手适用于 12 GPM(加仑每分钟)的液压流量。 具有可调强度,可以处理各种各样的应用。 设计用于各种液压回路,可在最极端的应用中进行水下 螺栓固定。

The IW12 Impact Wrench features adjustable intensity and can handle a wide variety of applications. Designed to run from a wide range of hydraulic circuits, the IW12 allows underwater bolting in the most extreme applications.



不同尺寸, 也可根据要求提供。

Different sizes, also available on request.

rilling tool

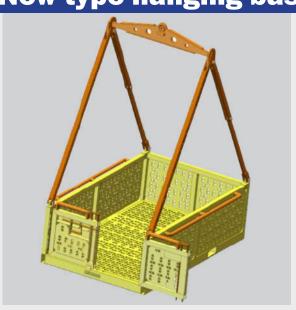
新型吊篮 **New type hanging basket**





可采用立平磁力附着在表面进行钻孔,也可 附着在钻杆上进行钻孔作业。 管道必须最小为 450毫米。

Can be used standing flat magnetically attached to the surface for drilling, and attached to pipe for drilling operations. Pipe must be minimum Ø450 mm.



新型吊篮, 快速开关锁定。 New tpye hanging basket, fast switch lock.

取样工具 Sampling Tools



气体采样器 Gas Sampler

气 / 液取样器设计用于测量气 / 液流量,并从海 底泄漏中带回样品。

漏斗下部可与气体取样器分离,以便在密闭空间 内获得更好的通道。

它也被设计成由工作级 ROV 操作。

The Gas/Liquid Sampler is designed to measure gas/liquid flow and bring back samples from a subsea leakage.

The lower part of the funnel can be separated from the gas sampler, in order to get better access in confined spaces.



ROV 取样瓶。

该工具由远程操作车辆 (ROV) 操作, 非常适 合从难以到达的水下环境中收集气体、液体 或沉积物样本。

Sampling bottle for ROV.

This tool, operated by a remotely operated vehicle (ROV), is ideal for collecting gas, liquid, or sediment samples from difficult-to-reach underwater environments.

水下机器人工具 ROV Tools





鱼尾式 ROV 手柄 Fishtail ROV handle

ROV 鱼尾手柄适用于多种工作场合

长度: 310×**Ø16**mm

ROV fishtail handles are suitable for a variety of work scenarios

Length: 310ר16mm



D型 ROV 手柄 D-Type ROV handle

D型 ROV 手柄适用于多种工作场合

长度: 310×**Ø16**mm

D-Type ROV fishtail handles are suitable for a variety of work

scenarios

Length: 310ר16mm



ROV 刀嵌入鱼尾 ROV-knife

ROV 刀嵌入鱼尾

可用于各种场合, 如切割绳索, 软管, 电线等。

长度: 500mm × 15mm。

ROV knife embedded in a fishtail.

Can be used in a wide variety of situations such as for cutting

rope, hoses, and wires, etc. Length: 500 mm. x 15 mm.



带法兰的 D 型 ROV 手柄 D-TypeROV handles with flange

D型把手 法兰 70 mm Handle Flange Ø 70 mm D-tail 4孔 6.5 mm D-tail 4 holes Ø 6.5 mm Flexjoint PCD 56 mm



带法兰的 ROV 手柄 ROV handles with flange

鱼尾 法兰 70~mm Fishtail Flange Ø 70~mm D-tail 4 3.6.5~mm D-tail 4 holes Ø 6.5~mm Flexjoint PCD 56~mm Flexjoint PCD 56~mm





海底吊篮采用坚固的实心钢 吊装装置,确保了海上作业 的耐久性和可靠性。

Subsea basket designed with a robust solid steel lifting arrangement, ensuring durability and reliability for demanding offshore operations.

海底吊篮 Subsea Basket

10 英尺篮子 10ft basket

承载 11400kg, 总重量 15000kg。

Lifts 11400kg, total weight 15000kg.
10ft basket size



Basic Information

External Dimensions LxWxH mm	3000x2802x4229mm
Internal Dimensions LxWxH mm	2800x2250x1030mm
TARE Load	3600KG
Payload	11400KG
Max Gross Weight	15000KG
Main Material	Q345B
Coating	HDG+Painting

13 英尺篮子 13ft basket

承载 15600kg, 总重量 20000kg。

Lifts 15600 kg, total weight 20000 kg. 13 ft basket size.



Basic Information

External Dimensions LxWxH mm	4000x2802x5032mm
Internal Dimensions LxWxH mm	3800x2250x1030mm
TARE Load	4400KG
Payload	15600KG
Max Gross Weight	20000KG
Main Material	Q345B
Coating	HDG+Painting

20 英尺篮子 20ft basket

承载 20185kg, 总重量 25000kg。

Lifts 20185kg, total weight 25000 kg. 20 ft basket size.



Basic Information

External Dimensions LxWxH mm	6058x2438x1550mm
Internal Dimensions LxWxH mm	5758x2138x1275mm
TARE Load	4815KG
Payload	20185KG
Max Gross Weight	25000KG
Main Material	Q345B
Coating	HDG+Painting

起重工具 Lifting Tools





液压磁铁 Hydraulic Magnet

磁铁也可用作抓取杆,在用另一只手臂执行操作时,用一只手臂保持ROV静止。磁力可达3600公斤。

The magnet is also used as a grabber bar that holds the ROV still with one arm, when executing operations with the other.

Magnetic capacity of up to 3600 kg.



水下机器人链式起重机 ROV Chain Hoist

安装 d 型尾的链式起重机。可选 4 种,容量如下: 2 吨,3 吨,5 吨,10 吨

Chain hoists with mounted D-tail. 4 options available, with following capacities: 2 ton,3 ton,5 ton,10 ton

卸扣 Shackle

尺寸和重量

最大工作荷载: 25Te

长度: 615mm 宽度 : 412mm

高度: 415mm 空气重量: 49公斤

水重: 42kg

Dimensions and wight

WLL: 25 Te

Length: 615 mm. Width Ø: 412 mm. Height: 415 mm. Weight in air: 49 kg. Weight in water: 42 kg.

运输桶

Transponder bucket

用于 CNode 迷你转发器的转发器桶。

Transponder bucket for CNode mini transponders.

可配吊车线、TMS等夹具。

Can be equipped with clamps for crane wire, TMS etc.



水下刷子 Subsea Brush





不锈钢钢丝刷 非常适合工况恶劣的清洁和去毛刺 可配不锈钢或碳钢丝

尺寸和重量:

线材 : **Ø8mm/Ø10mm** 线长: 150mm、100mm 工作长度 旋转时: 总工作直径 400mm(15.7")

空气重量: 3.20/3.90kg

Stainless steel wire brush.

Perfect for tough cleaning and deburring.

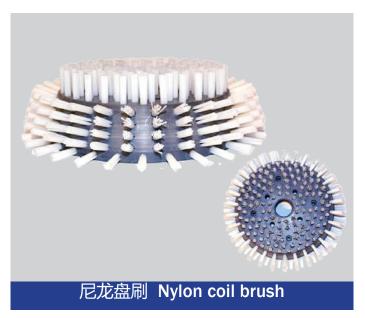
Can be fitted with stainless steel or carbon steel wires.

Dimensions and weight: Wire Ø8mm/Ø10mm

Wire length: 150 mm., 100 mm. working length

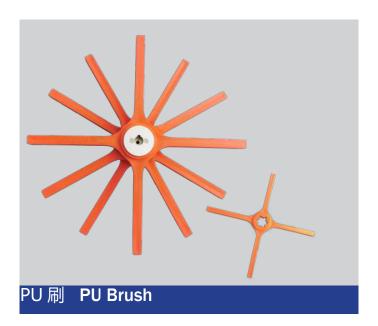
When rotating: Total working diameter 400 mm. (15.7")

Air weight: 3.20/3.90kg



尼龙盘刷在深度达 1.5 公里的海底维护任务中被广泛使用。它们安装在机器人臂上,可靠地清除管道上的藻类和污垢,从而使管道能够被检查是否漏水或受损。在此过程中,刷子必须能够承受高水压和盐分的需求。

The Nylon coil brushes are used for these maintenance tasks at depths of up to 1.5 kilometers. Mounted on the robot arms, the Mink disc brushes reliably remove algae and dirt from the pipelines so that the pipes can be inspected for leaks and damage. Here, the brushes must be able to withstand requirements such as high water pressure and salt content.



PU 刷 3 件 / 套 尺寸和重量: 直径: **Ø630**mm

空气重量: 4.35kg (含铝件)

New PU Brush 3 pieces/set Size and weight: Diameter: Ø630mm

Air weight: 4.35kg (including aluminum)





聚氨酯刷 适合船底赘物清理及综合性清洁

Brush made from polyurethane. Suitable for cleaning and comprehensive cleaning of ship bottom



非常适合重型清理 可配黄铜或钢制链条 尺寸和重量

链条 : 8毫米 (5/16")

链条长度: 500 毫米, 250 毫米工作长度 纺纱时: 总工作直径 540 毫米 (21″) 空气重量: 21 公斤。 (46 磅) 与黄铜链 可以配置手柄 F5, 7F 可以配置鱼尾或 d 型手柄

Perfect for heavy cleaning. Can be equipped with brass or steel chain. Dimensions and wight Chain Ø: 8 mm. (5/16")

Chain length: 500 mm., 250 mm. working length When spinning: Total work diameter 540 mm. (21") Weight in air: 21 kg. (46 lbs) with brass chain

Can be equipped with handle F5, and fishtail or D-handle

for 7F



多用途涂刷工具 理想的各种清洁任务 可安装尼龙或钢刷毛 尺寸和重量:

旋转时: 总工作直径 500mm (19.5") 重量: 18公斤。 (40磅) 尼龙刷毛

与手柄 F3 兼容, 并与可选的环或 t 型手柄增强控制。

Multi-purpose brushing tool. Ideal for a variety of cleaning tasks.

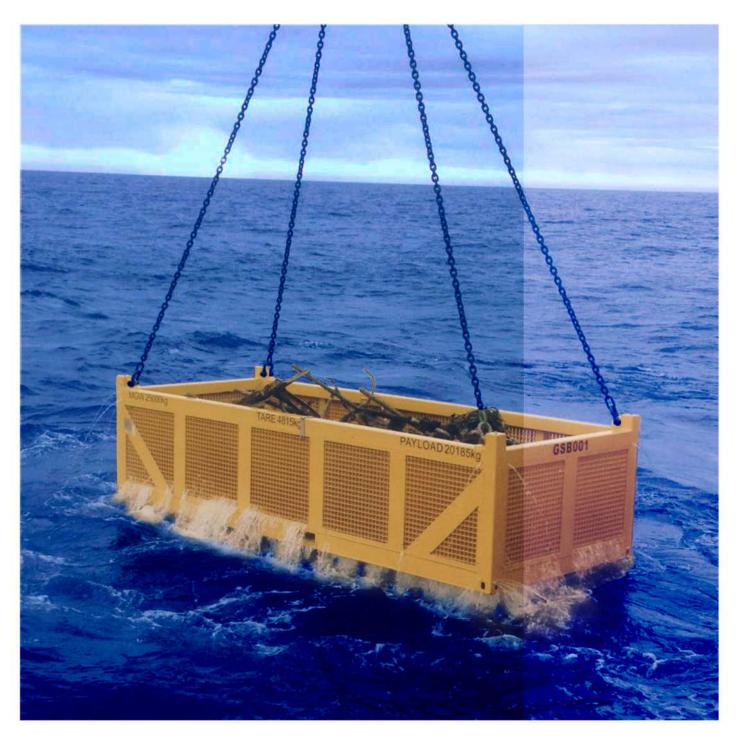
Can be fitted with either nylon or steel bristles.

Dimensions and weight:

When rotating: Total working diameter 500 mm. (19.5") Weight: 18 kg. (40 lbs) with nylon bristles

Compatible with handle F3, and available with optional loop or T-handle for enhanced control.





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