

Floating Marine Hose

Powering Marine Worldwide



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FPSO Floating Hose

浮式生产储卸油装置漂浮软管



FPSO（浮式生产储油卸油装置）是海上油气田开发的核心设施，串靠（串联）装载是FPSO向穿梭油轮转运原油的主流作业方式。GETSAF MARINE专为FPSO串靠卸油工况研发的漂浮软管，可在复杂海况下实现安全、高效、连续的液货传输，全面适配各类FPSO/FSO/FSU与穿梭油轮的作业需求。

FPSO (Floating Production Storage and Offloading unit) is the core facility for offshore oil and gas field development, and tandem loading is one of the mainstream operation methods for FPSO to transfer crude oil to shuttle tankers. GETSAF MARINE's floating hoses, specially developed for FPSO tandem offloading conditions, enable safe, efficient and continuous cargo transfer under complex sea conditions, fully adapting to the operational requirements of various FPSO/FSO/FSU and shuttle tankers.

SPM - FLOATING HOSE SYSTEMS

单点系泊系统漂浮软管

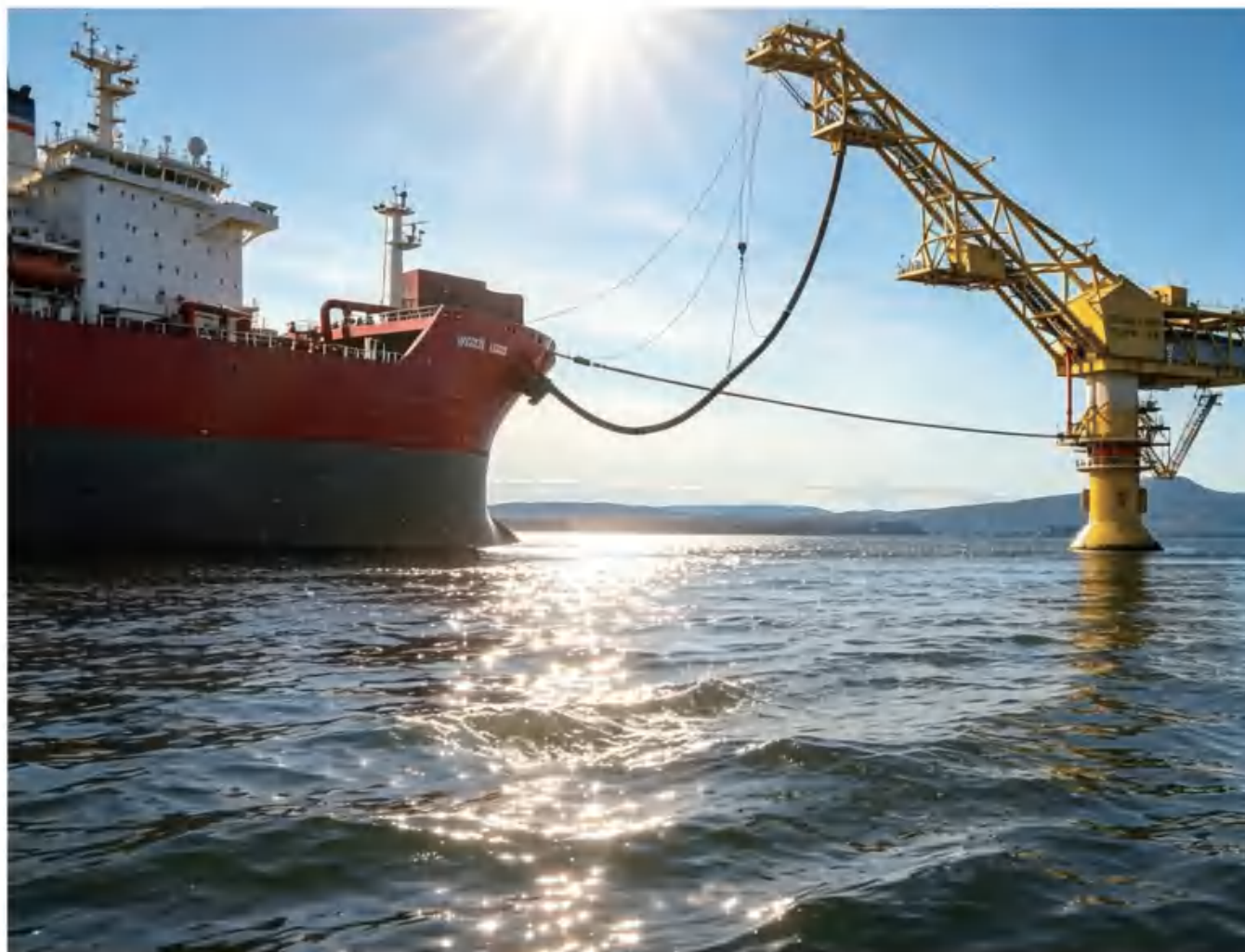


单点系泊（SPM, Single Point Mooring）是离岸油气田开发的核心枢纽，广泛用于 FPSO/FSO/ 储油轮与穿梭油轮之间的液货转运，是深水、远海油田的主流卸油方案。GETSAF MARINE 为 SPM 系统提供全系列漂浮软管与海底软管，覆盖从海床到油轮的完整输油链路，适配 CALM（悬链锚腿系泊）、SALM（单锚腿系泊）等各类 SPM 系统。

Single Point Mooring (SPM) is the core hub of offshore oil and gas field development, widely used for cargo transfer between FPSO/FSO/storage tankers and shuttle tankers, and is the mainstream offloading solution for deep-water and offshore oil fields. GETSAF MARINE provides a full range of floating hoses and submarine hoses for SPM systems, covering the complete oil transmission pipeline from seabed to tanker, adapting to various SPM systems such as CALM (Catenary Anchor Leg Mooring), SALM (Single Anchor Leg Mooring), etc.

SPM TOWER LOADING SYSTEM

SPM 塔式悬链装卸系统



SPM 塔式系泊悬链装卸系统是浅水、恶劣海况区域的主流卸油方案，通过固定于海床的钢结构塔架系泊穿梭油轮，替代传统浮筒式 SPM，抗浪性、稳定性更强，尤其适用于近岸、浅水油气田。GETSAF MARINE 专为 SPM Tower 工况研发的卸油软管，完美适配塔式系泊的动态作业需求，实现安全、高效的液货传输。

SPM Tower Mooring System (TMS) is the mainstream offloading solution for shallow water and harsh sea conditions. By mooring shuttle tankers with a steel structure tower fixed on the seabed, it replaces the traditional buoy-type SPM, with stronger wave resistance and stability, especially suitable for nearshore and shallow water oil and gas fields. GETSAF MARINE's offloading hoses, specially developed for SPM Tower working conditions, perfectly adapt to the dynamic operation requirements of tower mooring, achieving safe and efficient cargo transfer.

Reeling Hose

卷轴软管



卷轴软管是GETSAF MARINE专为海上油气高效作业研发的柔性输送设备，依托可卷绕收纳的核心特性，搭配专用卷轴，实现软管的快速部署、回收与规范收纳

The reel hose is a flexible conveying device developed by GETSAF MARINE specifically for efficient offshore oil and gas operations. Leveraging its core feature of being able to be wound and stored, and paired with a dedicated reel, it enables rapid deployment, retrieval, and standardized storage of the hose.

Lantern-style Subsea Configuration

水下灯笼式构型

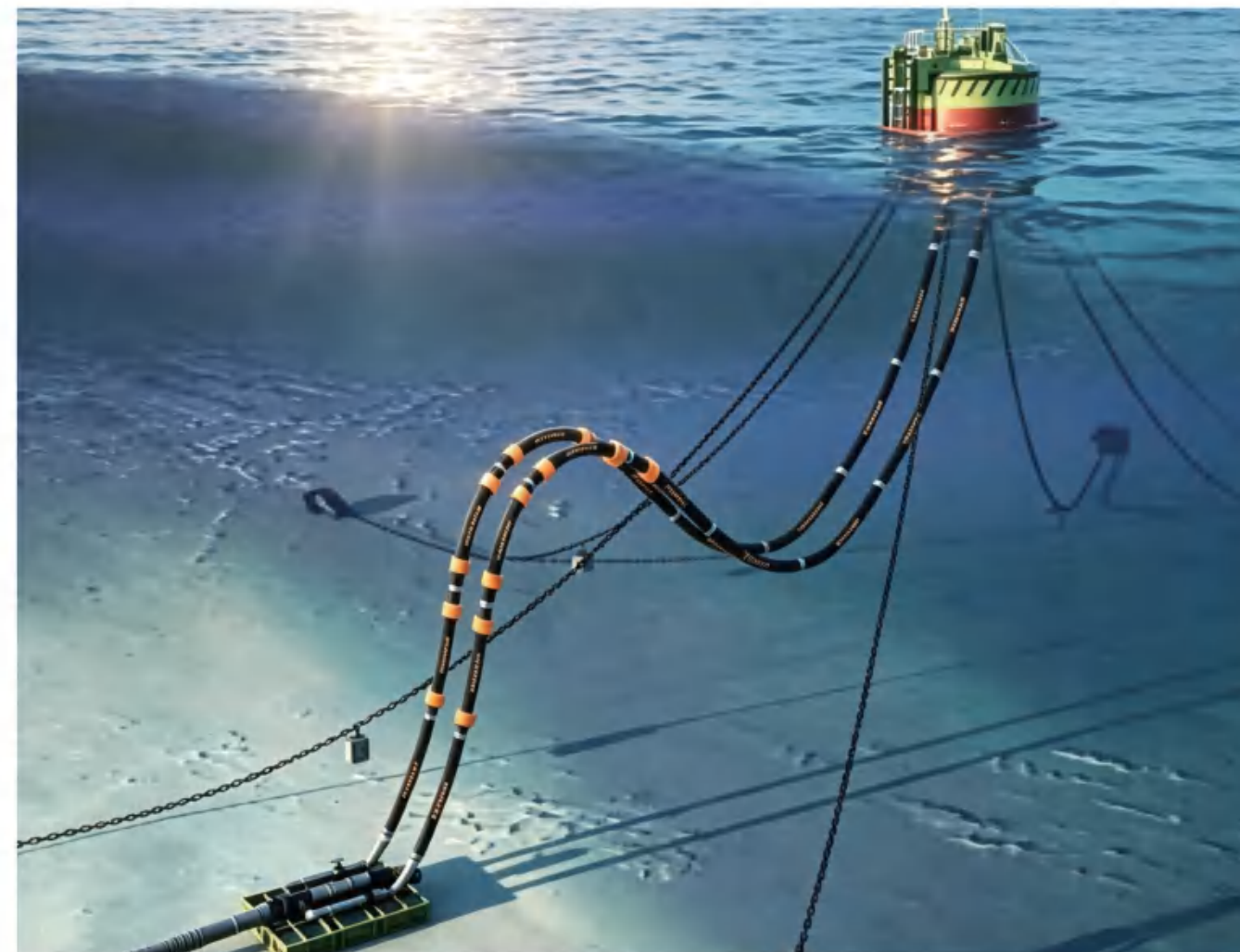


灯笼式水下输油构型是现代单点系泊系统的核心技术，专为深水恶劣海况设计，凭借优异的运动适应性、高可靠性与模块化维护优势，为海底输油提供柔性高效的解决方案，全面适配深水油气开发需求。

The lantern-style subsea configuration is a core technology of modern single point mooring systems, designed for deepwater harsh sea conditions. With excellent motion adaptability, high reliability and modular maintenance advantages, it provides a flexible and efficient solution for subsea oil transfer, fully meeting the needs of deepwater oil & gas development.

Steep S and Lazy S are classic subsea hose

水下陡 S 型与懒 S 型



水下陡 S 型与懒 S 型是单点系泊系统的经典水下软管构型。陡 S 型布局紧凑、抗水平位移能力强，适配深水作业；懒 S 型形态平缓、抗垂直升沉性能优异，适用于中等水深，为不同海况下的海底输油提供可靠解决方案。

Steep S and Lazy S are classic subsea hose configurations for Single Point Mooring (SPM) systems. The Steep S features a compact layout with strong horizontal displacement resistance, ideal for deepwater operations; the Lazy S has a gentle profile with excellent vertical heave adaptability, suitable for medium water depths, delivering reliable solutions for subsea oil transfer under various sea conditions.

Getsaf 海上漂浮式油气输送专用软管

Getsaf Marine Floating Hose for Oil & Gas Transportation

Getsaf漂浮软管严格按照国际GMPHOM 2009标准设计与生产。
针对远洋复杂海况与浮式作业需求，提供定制化流体输送整体解决方案。

Manufactured in full compliance with GMPHOM 2009. We offer tailored fluid transfer solutions for harsh offshore environments.

核心性能优势 | Core Performance Advantages

支持原油、天然气、LPG多介质
稳定输送，覆盖全场景海事作业

Compatible with crude oil,
natural gas and LPG, ideal for
full-scenario marine operations

专用内衬层可抵御高浓度芳
($\leq 50\%$) 香烃介质

A specialized inner lining layer
provides resistance against
high-concentration aromatic
hydrocarbon media ($\leq 50\%$).

一体式耐油结构设计，无需加装
过渡层，适配各类油性流体

Integrated oil-resistant structure
eliminates the need for transition
layers for oily media

外覆层具备超强抗紫外线、耐
磨损、抗撕裂性能，延长海上
使用寿命

Outer cover features superior
UV, abrasion and tear resistance
for long offshore service life



双骨架安全结构 海事级冗余防护设计

Getsaf提供单骨架与双骨架两大系列漂浮软管，其中双骨架产品采用双重独立承压结构，是高安全等级海事工程的首选方案。

主骨架层发生故障时，次级骨架
可瞬间接管全部压力负载，确保输送系统连续运行，
彻底杜绝海洋泄漏风险。可选配智能泄漏监测系统，
实现故障提前预警。

Getsaf offers floating hoses with single-carcass
and double-carcass structures. The double-carcass
hose adopts two independent pressure-bearing
layers, which is the best choice for high-safety
offshore engineering projects.

When the primary carcass layer malfunctions, the
secondary carcass layer will instantly bear all system
pressure loads. It ensures continuous operation
of the transmission system and completely avoids
offshore leakage hazards. Customers can equip an
intelligent leakage monitoring system to achieve
active fault early warning.



GETSAF® 海洋漂浮软管-通用配置介绍
MARINE FLOATING HOSES Marine Floating Hose - General Configuration Introduction

核心结构配置 | Core Structure Configuration

单双骨架结构: GETSAF 漂浮输油管系列包含单骨架和双骨架结构, 适用于水下, 悬链及漂浮。
Single and Double Carcass Structures: GETSAF floating oil hoses features both single-carcass and double-carcass structures, suitable for subsea, catenary, and floating applications.

产品分类应用 | Product Classification



漂浮软管 (水上应用) Floating Hoses

围栏管	Tanker Rail
尾管	Tail Hose
变径管	Reducer Hose
主管	Mainline Hose
外覆聚氨酯涂层软管	Polyurethane-Coated Hose
一端增强半漂浮管	Single-End Reinforced Semi-Floating Hose
卷轴软管	Reel Hose
悬链软管	Catenary Hose



水下软管 (海底应用) Submarine Hoses

带浮体环一端增强管	Reinforced Hose Section with Float Collar
不带浮体环一段增强管	Reinforced Hose Section without Float Collar
带浮体环主管	Main Hose Section with Float Collar
不带浮体环主管	Main Hose Section without Float Collar
围栏管	Fence Hose
全增强管	Fully Reinforced Hose
海水淡化管	Desalination Hose
灯笼式/懒S型/陡S型	Lantern / Lazy-S / Steep-S

标准规格参数 | Standard Specifications

内径 Inner diameter		额定工作压力 Rated working pressure	长度 Length	安全系数 Safety factor
inch	mm	bar	m	x: x
4	102	15/19/21	9.1/10.7/11.8/12.2	5: 1
6	150			5: 1
8	200			5: 1
10	250			5: 1
12	300			5: 1
16	400			5: 1
20	500			5: 1
24	600			5: 1

操作压力 Allowable Operating Pressure	-0.85 bar (25 HG) 真空 -0.85 bar (25 HG) Vacuum
最小弯曲半径 Minimum Bending Radius	漂浮管 (围栏管除外): 内径的6倍 Floating Hose (Except for tanker rail hose): 6xNominal Diameter
最小弯曲半径 Minimum Bending Radius	水下管和围栏管: 内径的4倍 Submarine Hose&Tanker Rail Hose: 4xNominal Diameter
流速 Flow Velocity	21m/s (70ft/s) 21m/s (70ft/s)
介质 Fluid	原油、气态天然气、液态石油产品 Crude Oil,Natural Gas,liquid petroleum products
最大芳香烃含量 Maximum Aromatic Content	50% 50%
介质温度 Fluid Temperature	-20°C~+82°C (-4°F~+180°F) -20°C~+82°C (-4°F~+180°F)
环境温度 Ambient Temperature	-29°C~+52°C (-20°F~+125°F) -29°C~+52°C (-20°F~+125°F)
对接头和法兰的外露内表面和外表面, 包括法兰面的保护 Protection of the exposed internal and external surfaces of joints and flanges, including the flange faces.	镀锌 Galvanizing
接头和法兰质检的焊缝检查 Weld Inspection for Joints and Flanges (Quality Control)	按照GMPHOM 2009进行射线检测 Perform radiographic testing in accordance with GMPHOM 2009.

油轮围栏管 | Tanker Rail Hose



单管体油轮围栏管 GS81115
Single Carcass GS81115



双管体油轮围栏管 GS82115
Double Carcass GS82115

油轮甲板围栏连接 | Tanker Deck Rail Connection

产品概述 | Product Overview

油轮围栏管用于连接油轮甲板围栏与码头管道系统，在船舶靠泊和装卸作业过程中承受动态载荷和海浪冲击。GETSAF油轮围栏管采用高强度骨架结构，具有优异的耐疲劳性能。

Tanker hose lines are used to connect a tanker's deck manifold to the terminal's pipeline system, enduring dynamic loads and wave impacts during berthing and cargo transfer operations. GETSAF tanker hose lines feature a high-strength skeletal structure, offering superior fatigue resistance.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81115 (单骨架) / GS82115 (双骨架)
内径InsideDiameter	6"(150mm)-12"(300mm)
工作压力WorkingPressure	15bar/ 19bar/ 21bar
爆破压力BurstPressure	$\geq 5 \times WP$ (75/ 95/ 105bar)
最小弯曲半径MinBendRadius	4 × DN(Floating)
温度范围Temperature	介质Media: -20°C ~ +82°C
端部连接Flange	ANSI B16.5 Class 150/300

尾管 | Tail Hose



单管体尾管 GS81114
Single Carcass GS81114



双管体尾管 GS82114
Double Carcass GS82114

软管系统末端连接 | Hose String End Connection

产品概述 | Product Overview

尾管是CALM/SPM软管系统的末端组件，连接最后一节软管与船舶或码头管道。GS81114/GS82114尾管采用特殊加强结构，可承受较大的弯曲应力和端部载荷。

The tail hose is the terminal component of a CALM/SPM hose system, connecting the final hose section to the vessel or terminal piping. The GS81114/GS82114 tail hose features a specially reinforced structure designed to withstand significant bending stresses and end loads.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81114 (单骨架) / GS82114 (双骨架)
内径InsideDiameter	6"(150mm)-24"(600mm)
工作压力WorkingPressure	15bar/ 19bar/ 21bar
爆破压力BurstPressure	$\geq 5 \times WP$
最小弯曲半径MinBendRadius	6 × DN(Floating)
吊装耳板LiftingLugs	12"=100kN/ 16"=150kN/ 20"=200kN
标准长度StandardLength	9.1m/ 10.7m/ 12.2m

变径管 | Reducer Hose



单管体变径管 GS81113
Single Carcass GS81113



双管体变径管 GS82113
Double Carcass GS82113

不同管径连接 | Different Diameter Connection

产品概述 | Product Overview

变径管用于连接不同内径的管道系统，实现流量的平滑过渡。GETSAF变径管采用锥形加强结构设计，确保在变径区域的强度和密封性能。

Reducers are used to connect piping systems with differing internal diameters, facilitating a smooth transition of flow. GETSAF reducers feature a tapered reinforced structural design, ensuring exceptional strength and sealing performance within the transition zone.

技术参数 | Technical Parameters

型号Code	变径规格ID Range	工作压力WP
GS81113	8"→6"/ 10"→8"/ 12"→10"	15/ 19/ 21bar
GS82113	8"→6"~16"→12"	15/ 19/ 21bar
GS81113-HD	20"→16"/ 24"→20"	15bar
GS82113-HD	20"→16"/ 24"→20"	15bar
爆破压力BurstPressure	≥5×WP	
浮力储备BuoyancyReserve	≥20%(Min)	
电气性能Electrical	连续导电/ ContinuousConductivity	

主管 | Mainline Hose



单管体漂浮主管 GS81112
Single Carcass GS81112



双管体漂浮主管 GS82112
Double Carcass GS82112

软管系统主干管路 | Hose String Main Pipeline

产品概述 | Product Overview

主管是CALM/SPM软管系统的主干管路，承担主要的油品输送任务。GS81112/GS82112采用高强度骨架设计，具有优异的耐压性能和抗疲劳特性，适用于各种海况条件。

The main hose serves as the backbone of the CALM/SPM hose system, undertaking the primary task of transporting oil products. The GS81112/GS82112 features a high-strength skeletal design, offering superior pressure resistance and fatigue resistance, making it suitable for operation under a wide range of sea conditions.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81112 (单骨架) / GS82112 (双骨架)
内径InsideDiameter	6"(150mm)-24"(600mm)
工作压力WorkingPressure	15bar/ 19bar/ 21bar
爆破压力BurstPressure	≥5×WP
最小弯曲半径MinBendRadius	6×DN(Floating)
浮力材料Buoyancy	闭孔泡沫Closed-cellFoam
标准长度StandardLength	9.1m/ 10.7m/ 12.2m

聚氨酯涂层软管 | Polyurethane-Coated Hose



聚氨酯涂层软管 GS82112-PU
 PU Coating Mainline GS82112-PU

重型聚氨酯涂层软管GS82115-PU
 PU Coating Heavy Duty GS82115-PU

外覆黄色聚氨酯防腐层| Yellow PU External Coating

产品概述 | Product Overview

聚氨酯涂层软管外覆黄色聚氨酯层，有效抵抗海水中盐分、微生物和海洋生物的腐蚀，大幅延长使用寿命。

The polyurethane-coated hose features an outer layer of yellow polyurethane, which effectively resists corrosion caused by seawater salinity, microorganisms, and marine life, thereby significantly extending its service life.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS82112-PU/ GS82115-PU
内径Inside Diameter	6"(150mm)-24"(600mm)
工作压力Working Pressure	15bar/ 19bar/ 21bar
聚氨酯层厚度PU Layer Thickness	≥3mm
涂层颜色Coating Color	黄色Yellow(RAL1028)

一端增强半漂浮管| One End Reinforced Half Floating Hose



单管体一端增强半漂浮主管 GS81111
 Single Carcass Half Floating GS81111

双管体一端增强半漂浮主管 GS82111
 Double Carcass Half Floating GS82111

半漂浮式设计| Half Floating Design

产品概述 | Product Overview

一端增强半漂浮管一端配备加强结构，另一端为标准端部连接。这种设计可减少弯折应力，延长软管在动态载荷条件下的使用寿命。

The single-end reinforced semi-floating hose features a reinforced structure at one end, while the other end utilizes a standard connection. This design reduces bending stress and extends the service life of the hose under dynamic load conditions.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81111 (单骨架) / GS82111 (双骨架)
内径Inside Diameter	6"(150mm)-24"(600mm)
工作压力Working Pressure	15bar/ 19bar/ 21bar
爆破压力Burst Pressure	≥5×WP
增强端位置Reinforced End	船舶端ShipEnd
浮力材料Buoyancy	半漂浮HalfFloating
标准长度Standard Length	9.1m/ 10.7m/ 12.2m

卷轴软管 | Reeling Hose



单管卷轴软管 GS81112-REEL

Single Carcass Reeling GS81112-REEL



双管卷轴软管 GS82112-REEL

Double Carcass Reeling GS82112-REEL

卷筒式收放软管 | Reel-Type Hose System

产品概述 | Product Overview

卷轴软管专为卷筒式收放系统设计，可实现快速部署和回收。GS81112-REEL/GS82112-REEL 采用特殊加强结构，适应频繁的卷绕和展开操作。

These reel-mounted hoses are specifically designed for reel-based deployment and retrieval systems, enabling rapid deployment and retraction. The GS81112-REEL and GS82112-REEL models feature a specialized reinforced structure to withstand frequent winding and unwinding operations.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81112-REEL / GS82112-REEL
内径Inside Diameter	4"(100mm)-12"(300mm)
工作压力Working Pressure	15bar / 19bar / 21bar
适用卷筒Reel Type	液压驱动/手动Hydraulic/Manual
内衬材料Liner	NBR耐油橡胶Oil-resistant NBR
标准长度Standard Length	按卷筒规格As per reel spec

带浮体环一端增强管 | One End Reinforced with Float Collar



单管体带浮体环一端增强管 GS81111-FC

Single Carcass FC GS81111-FC



双管体带浮体环一端增强管 GS82111-FC

Double Carcass FC GS82111-FC

半漂浮式设计 | Half Floating Design

产品概述 | Product Overview

带浮体环一端增强管在一端配备浮体环，另一端为加强结构。浮体环提供额外浮力支撑，适用于浅水区域的CALM系统。

The Enhanced Pipe with Floating Ring is equipped with a floating ring at one end, while the other end features a reinforced structure. The floating ring provides additional buoyant support, making it suitable for CALM systems deployed in shallow-water regions.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81111-FC (单骨架) / GS82111-FC (双骨架)
内径Inside Diameter	6"(150mm)-24"(600mm)
工作压力Working Pressure	15bar / 19bar / 21bar
适用水深Water Depth	≤50m (Shallow Water)
标准长度Standard Length	9.1m / 10.7m / 12.2m

不带浮体环一端增强管 | One End Reinforced without Float Collar



单管不带浮体环一端增强管 GS81111-NFC 双管不带浮体环一端增强管 GS82111-NFC
Single Carcass NFC GS81111-NFC Double Carcass NFC GS82111-NFC

无浮体环配置 | No Float Collar Configuration

产品概述 | Product Overview

不带浮体环一端增强管适用于深水作业环境，无需额外的浮力支撑。这种配置可减少水下负载和安装成本，适合水深超过50米的应用。

The enhanced pipe—featuring a non-buoyant end—is suitable for deep-water operational environments, requiring no additional buoyancy support. This configuration reduces underwater loads and installation costs, making it ideal for applications in water depths exceeding 50 meters.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81111-NFC (单骨架) / GS82111-NFC (双骨架)
内径Inside Diameter	6"(150mm)-24"(600mm)
工作压力Working Pressure	15bar/ 19bar/ 21bar
爆破压力Burst Pressure	≥5×WP
最小弯曲半径Min Bend Radius	4×DN(Submerged)
适用水深Water Depth	>50m(Deep Water)
安装方式Installation	水下Submerged

带浮体环主管 | Mainline with Float Collar



单管带浮体环主管 GS81112-FC 双管带浮体环主管 GS82112-FC
Single Carcass Mainline FC GS81112-FC Double Carcass Mainline FC GS82112-FC

主管浮体环系统 | Mainline Float Collar System

产品概述 | Product Overview

带浮体环主管在标准主管基础上配备浮体环，提供额外的浮力支撑。这种配置广泛应用于浅水CALM系统，确保软管串在海面保持正确姿态。

The main hose equipped with flotation collars features flotation rings added to a standard main hose, providing additional buoyant support. This configuration is widely utilized in shallow-water CALM systems, ensuring that the hose string maintains the correct attitude at the sea surface.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81112-FC (单骨架) / GS82112-FC (双骨架)
内径Inside Diameter	6"(150mm)-24"(600mm)
工作压力Working Pressure	15bar/ 19bar/ 21bar
浮体环规格Float Collar Spec	直径根据软管规格Perhosespec
适用水深Water Depth	≤50m(Shallow Water)
标准长度Standard Length	9.1m/ 10.7m/ 12.2m

不带浮体环主管 | Mainline without Float Collar



单管不带浮体环主管 GS81112-NFC

Single Carcass Mainline NFC GS81112-NFC

双管不带浮体环主管 GS82112-NFC

Double Carcass Mainline NFC GS82112-NFC

标准主管配置 | Standard Mainline Configuration

产品概述 | Product Overview

不带浮体环主管是深水应用的标准配置，适用于水深超过50米的FPSO和浮式装置软管系统。这种配置减少了水下负载和安装复杂度。

Main hoses without flotation collars represent the standard configuration for deepwater applications, suitable for hose systems on FPSOs and floating installations situated in water depths exceeding 50 meters. This configuration reduces both the underwater load and installation complexity.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS81112-NFC (单骨架) / GS82112-NFC (双骨架)
内径Inside Diameter	6"(150mm)-24"(600mm)
工作压力Working Pressure	15bar/ 19bar/ 21bar
爆破压力Burst Pressure	≥5×WP
最小弯曲半径Min Bend Radius	4×DN(Submerged)
适用水深Water Depth	>50m(Deep Water)

海水淡化管 | Sea Water Desalination Hose



海水淡化管 GS85312-SWD

Desalination Hose GS85312-SWD



重型海水淡化管 GS85322-SWD

Heavy Duty Desalination GS85322-SWD

海水输送软管 | Sea Water Transfer Hose

产品概述 | Product Overview

海水淡化管专用于海水淡化厂的原水和产品水输送，采用耐海水腐蚀材料制造。GS85312-SWD/GS85322-SWD具有优异的耐盐腐蚀性能和聚脲涂层防护。

Seawater desalination pipes are specifically designed for the conveyance of raw water and product water in desalination plants, and are manufactured using materials resistant to seawater corrosion. Models GS85312-SWD and GS85322-SWD feature excellent resistance to salt corrosion and are protected by a polyurea coating.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS85312-SWD/ GS85322-SWD
内径Inside Diameter	4"(100mm)-24"(600mm)
工作压力Working Pressure	10bar/ 16bar(PN10/PN16)
内衬材料LinerMaterial	EPDM/ CR耐海水橡胶
外覆层Jacket	聚脲Polyurea涂层
适用介质Media	海水、盐水SeaWater/ Brine
耐氯性Chlorine Resistance	≥200ppm

灯笼式/懒S型/陡S型软管 | Lantern/Lazy-S/Steep-S Hose



灯笼式软管 GS84212-LT
Lantern Hose GS84112-LT



懒S型/陡S型软管 GS84212-LS/SS
Lazy-S / Steep-S GS84112-LS/SS

特殊形态软管 | Special Shape Hose

产品概述 | Product Overview

灯笼式、懒S型和陡S型软管是特殊形态的软管配置，用于适应特定的安装空间和运动补偿需求。这些软管在有限的垂直空间内提供必要的位移补偿能力。

Lantern-style, "Lazy S," and "Steep S" hoses are specialized hose configurations designed to accommodate specific installation spaces and motion compensation requirements. These hoses provide the necessary displacement compensation capabilities within limited vertical spaces.

技术参数 | Technical Parameters

类型Type	型号Code	应用Application
灯笼式Lantern	GS84112-LT	垂直位移补偿Vertical Movement
懒S型Lazy-S	GS84112-LS	水平位移补偿Horizontal
陡S型Steep-S	GS84112-SS	大角度偏转Large Angle
内径Inside Diameter	6"(150mm)-24"(600mm)	
工作压力Working Pressure	15bar/ 19bar/ 21bar	
爆破压力Burst Pressure	$\geq 5 \times WP$	
标准长度Length	9.1m/ 10.7m/ 12.2m	

标准STS输油管 | Standard STS Loading Hose



船对船输油管 GS86212-ST
Ship-to-Ship Loading GS86212-ST

船对船输油 | Ship-to-Ship Oil Transfer

产品概述 | Product Overview

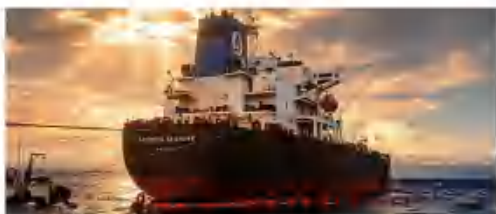
STS (Ship-to-Ship) 输油管用于两船之间的原油或产品油转运作业。GS86212-ST/ GS86122-ST符合EN1765和OCIMF船对船操作指南要求。

STS (Ship-to-Ship) oil transfer hoses are used for the transfer of crude oil or refined products between two vessels. Models GS86212-ST and GS86122-ST comply with the requirements of EN1765 and the OCIMF Ship-to-Ship Transfer Guide.

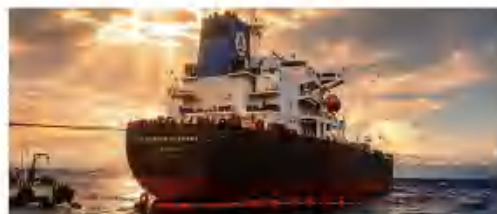
技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS86212-ST/ GS86122-ST
内径Inside Diameter	4"(100mm)-24"(600mm)
工作压力Working Pressure	10bar~21bar
设计标准Standard	EN1765/ OCIMF GMPHOM 2009
软管类型Type	Type R/ Type S/ Type A
电气等级Electrical Class	Grade M(电气接合)/ Grade H(导电)
最大流速Max Flow Velocity	21m/s

码头专用输油管 | Port Loading Hose



码头专用输油管 GS86212-PLT
Port Loading Standard GS86212-PLT



重型码头专用输油管 GS86215-PLT
Port Loading Heavy Duty GS86215-PLT

码头装卸作业 | Port Loading/Unloading Operations

产品概述 | Product Overview

码头专用输油管是连接码头管道与船舶接口的关键设备，承受频繁的连接操作和动态载荷。GS86212-PLT/GS86215-PLT具有优异的耐疲劳性能，符合OCIMFMEG4标准。

Dedicated marine oil transfer hoses serve as critical components connecting terminal piping to vessel interfaces, enduring frequent connection operations and dynamic loads. The GS86212-PLT and GS86215-PLT models exhibit exceptional fatigue resistance and comply with the OCIMF MEG4 standard.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS86212-PLT/ GS86215-PLT
内径Inside Diameter	4"(100mm)-24"(600mm)
工作压力Working Pressure	10bar/ 16bar(PN10/PN16)
端部连接Flange	ANSI B16.5 Class 150/300
适用标准Standard	EN1765/ OCIMF MEG 4
内衬材料Liner	NBR耐油橡胶
认证Certification	ABS/ BV/ CCS

储运操作规范

StorageAndTransportationOperationSpecification

运输以及仓储细则 Handling And Transport

使用固定在托盘吊眼上的四脚吊索，一次吊起一个托盘，堆放在坚实的平地上，最多叠加3层。

注：可以使用叉车装卸专用托盘，否则不要使用叉车提起托盘。

Note: A customised pallet design may be provided for fork lift handling. Such pallets will be appropriately identified. Otherwise do not lift pallets using forklift trucks.

推荐的吊起方法 Recommended Method Of Lift for Individual Hoses

·使用额定的吊车和吊具 Use suitable rated crane and spreader bar.

·吊起软管时，应使用最小100毫米宽的柔性吊带

Sling the hose using minimum 100 mm wide textile straps appropriately rated.

·至少用三条或更多的柔性吊带吊起软管

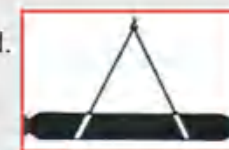
Sling from three hooks or more spaced over the hose length.

·用索时要考虑到软管末端法兰的局部承重能力

Position slings to take account of local weight concentrations from the hose.

·如果2点的抬升在操作上不可避免，则选择“四分之一点”的位置带起软管

Use the hose "quarterpoints" if a 2 point lift is operationally unavoidable.



AVOID不允许使用如下操作

·不允许使用钢丝绳或类似的吊索 Small circumference rope or similar slings

·不允许使用单吊带吊软管的中间点 Lifting by a single sling at the hose mid-point

·两根吊索吊起时，不允许起吊位置仅在法兰上 Lifting by two slings, one at each flange

·不允许用叉车叉直接吊装 Direct lifting with fork lift truck forks

·禁止导致局部负荷过大/软管过度弯曲的操作 DO NOT use any lift method that results in severe local loading and/or over-bending of the hose

·禁止在不平地拖拽软管（会损坏胶管外层和法兰）DO NOT drag the hose over unsuitable surfaces (damage cover or end flanges)

仓储设施 Storage Facilities

储存过程中，软管应防止以下情况：

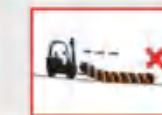
·阳光 Sunlight ·湿度过重 Excessive humidity

·机械损伤 Mechanical damage ·化学制品腐蚀 Chemicals

·极限温度 Temperature extremes ·臭氧 ozone ·虫害 Pests

室外储存要求：软管应放置在坚实、平整的地面上，并做好环境防护

On an area of solid, level ground, with separate protection against the environment.



项目现场软管的移动 Hose Movement Around Site

·吊杆和移动式起重机 Spreader bar and mobile crane

·定制软管托拖车 Customised hose towing trolleys

·拖车与软管安全堆放

Trailer with hoses safely stacked and chocked

·带专用配件的叉车

Fork lift trucks with specialised attachments

存储期间，定检项 Inspection During Storage

·各类机械损伤

Sundry mechanical damage

·啮齿动物的攻击 Rodent attack

·虫害 Insect attack

·橡胶老化（裂纹）

General rubber degradation (cracks)

工况信息采集 Information Collection Form

Please provide as much as you can for the best hose design.
为了更好的胶管设计,请尽可能全面的填写如下信息:

1. Customer info(客户信息):

2. Port and application field(港口以及应用领域):

3. Location(位置):

☐ SALM ☐ CMBM ☐ SBM ☐ OTHER'S(其他)

4. Application(应用系统):

5. Environment Conditions(环境因素):

5.1 Sea depth(水深): 5.2 Tidal range(潮汐变化): 5.3 Operational conditions(使用工况): (a) Wave height(波高期): (b) Wave period(波高): (c) Wind speed(风速):

6. Purpose(用途):

☐ Loading(装样) ☐ Unloading(排样)

7. Medium(介质):

7.1 Medium type 介质种类:

☐ Crude oil(原油) ☐ Liquid petroleum produ Natural gas(天然气)7.2 Specific gravity(密度) 7.3 Maximum aromatic hydrocarbon content (最大芳香烃含量):

8. Operating Pressure(工作压力):

8.1 Operating pressure at buoy(浮标端工作压力): 8.2 Operating pressure at tanker(油轮端工作压力): 8.3 Maximum working pressure(最大工作压力):

9. Temperature (温度)

Fluid temperature(介质温度): Ambient temperature(环境温度):

10. Flow rate (流速):

11. Hose string (软管串)

11.1 Quantity(数量):

11.2 Floating hose type,size,and quantity(漂浮管类型,尺寸和数量):

11.3 Submarine hose type,size,and quantity(水下管类型,尺寸和数量):

11.4 Submarine hose Configuration 水下管组系:

☐ Chinese Lantern 中国灯笼 ☐ Lazy S 懒S型 ☐ Steep S 陡S型 ☐ others 其他

12. Vessel 油船

12.1 Maximum Dead Weight Ton(最大载重吨位): 12.2 Average Dead Weight Ton(平均载重吨位): 12.3 Minimum Dead Weight Ton(最小载重吨位): 12.4 Operation frequency(操作频率):

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漂浮排泥主管 | Floating Discharge Hose



漂浮排泥主管 GS-DG21-FD
Floating Discharge Hose GS-DG21-FD

浮式排泥主线输送 | Floating Discharge Mainline Transfer

产品概述 | Product Overview

漂浮排泥主管用于疏浚系统的水面主输送线，通常连接绞吸船、耙吸船、增压站与岸线排送管路，在输送泥浆、砂水混合物及高磨蚀固体介质时承担连续主线输送功能。该类产品通过集成浮力结构或匹配式浮体设计，使软管在水面保持稳定线型，便于安装、拆解、拖带和运行中的线型控制。

Floating discharge hose is used on the surface mainline of dredging systems, typically connecting a dredger, booster station and shore pipeline for the continuous transfer of slurry, sand-water mixtures and other abrasive media. This hose family combines pressure capability with controlled buoyancy so the hose string remains stable on the water surface and can be installed, towed and operated with predictable line behaviour.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG21-FD
内径Inside Diameter	400mm-1200mm
工作压力Working Pressure	1.0MPa-4.0MPa
设计比重Design SG	1.0-2.3
浮力储备Flotation Reserve	20%-30%
标准长度Standard Length	6.1m / 11.8m
端部连接End Flange	钢法兰 / 橡胶衬里法兰 Steel Flange / Rubber Lined Flange
适用介质Typical Medium	海水、泥浆、砂水混合物 Seawater / Slurry / Sand-Water Mixture

锥形或半漂浮过渡管 | Tapered / Half Floating Hose



锥形或半漂浮过渡管 GS-DG22-TF
Tapered/Half Floating Hose GS-DG22-TF

浮式主管至非漂浮段过渡 | Transition from Floating Line to Non-Floating Section

产品概述 | Product Overview

锥形或半漂浮过渡管用于漂浮主管与后续下沉管、岸线管或其他非漂浮管段之间的过渡连接，通过逐步改变浮力分布、管体刚度和外形轮廓，降低管线在工况变化时的局部弯折和应力集中。该类产品常用于需要控制入水角度、管线垂度和浮沉切换区受力状态的疏浚输送系统。

Tapered or half floating hose is positioned between the fully floating mainline and the downstream non-floating section. By gradually adjusting buoyancy distribution, body geometry and structural stiffness, this hose helps reduce local bending stress and improves line profile control where the hose string changes from floating service to submerged or shore-connected service.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG22-TF
内径Inside Diameter	500mm-1200mm
工作压力Working Pressure	1.0MPa-3.0MPa
设计比重Design SG	1.4-1.8
浮力储备Flotation Reserve	90°
标准长度Standard Length	11.8m
端部连接End Flange	局部浮力 / 锥形浮力 Partial Floatation / Tapered Buoyancy
端部连接End Fittings	法兰连接 Flanged Ends

排泥管 | Discharge Hose



排泥管 GS-DG23-DH
Discharge Hose GS-DG23-DH

耐磨浆体排送工况 | Abrasive Slurry Discharge Service

产品概述 | Product Overview

排泥管主要应用于疏浚系统的排送侧管线、增压泵后输送段及岸线排送段，用于输送高浓度泥浆、砂砾混合物和其他高磨损介质。该类产品通常采用高耐磨内胶层、增强骨架层和耐候外覆层设计，在满足压力输送要求的同时兼顾弯曲柔性、连接可靠性和现场安装便利性。

Discharge hose is used on dredging discharge lines, booster discharge sections and shore lines for the transfer of highly abrasive slurry and sand mixtures. Publicly available product layouts for this hose family consistently emphasize a wear-resistant liner, reinforced carcass structure and reliable end fittings to support pressure transfer, field handling and repeated connection in dredging service.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG23-DH
内径InsideDiameter	200mm-1200mm
工作压力WorkingPressure	2.5MPa-3.5MPa
标准长度Standard Length	1m-11.8m
内衬材料Inner Liner	高耐磨 NR / SBR Abrasion Resistant NR / SBR
连接形式End Connectio	钢法兰 / 橡胶衬里法兰 Steel Flange / Rubber Lined Flange
适用介质Typical Medium	泥浆、砂、水和矿浆 Slurry / Sand / Water / Ore Slurry
外覆层Cover	耐候耐磨橡胶 Weather and Abrasion Resistant Cover

吸泥管 | Suction Hose



吸泥管 GS-DG24-SH
Suction Hose GS-DG24-SH

吸泥侧负压工况 | Negative Pressure Suction Service

产品概述 | Product Overview

吸泥管用于耙吸船拖头系统、绞吸船吸泥侧及其他需要承受负压抽吸的疏浚管路，用于从海床或作业面吸入泥浆、砂石和水混合物。与普通排泥管相比，该类产品除需具备耐磨输送能力外，还需要具备良好的真空抗塌陷性能、端部连接强度和弯曲适应性，以保证吸泥工况下的稳定运行。

Suction hose is designed for the suction side of dredging systems, including draghead systems on trailing suction hopper dredgers and suction lines on cutter suction dredgers. In addition to abrasion resistance, this hose family must provide adequate vacuum resistance, body stability and end reinforcement so the hose remains serviceable under negative pressure and repeated bending during suction duty.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG24-SH
内径InsideDiameter	200mm-700mm
真空度Vacuum Resistance	-0.09MPa
工作压力Working Pressure	1.5MPa-3.0MPa
标准长度Standard Length	1m-11.8m
内衬材料Inner Liner	高耐磨橡胶 Wear Resistant Rubber
端部连接End Flange	橡胶法兰 / 钢法兰 Rubber Flange / Steel Flange
最小弯曲半径Min Bend Radius	约 4×DN

铠装漂浮疏浚管 | Armored Floating Hose



铠装漂浮疏浚管 GS-DG25-AF
Armored Floating Hose GS-DG25-AF

含尖锐颗粒水面排送工况 | Surface Transfer for Sharp and Abrasive Media

产品概述 | Product Overview

耐切割漂浮疏浚管适用于含有珊瑚碎片、贝壳、岩石颗粒或其他尖锐固体介质的水面输送场景，在保持浮式输送功能的同时强化内衬耐切割性能和整体耐磨寿命。该类产品通常在内胶层或工作层中引入耐切割结构设计，以降低尖锐介质对软管内壁造成的局部破坏风险。

Armored floating hose is developed for floating transfer of slurry containing sharp and highly abrasive solids such as coral fragments, shell pieces or angular rock particles. This hose family retains the buoyant performance required for surface service while incorporating a cut-resistant working structure to improve resistance against internal damage and prolong service life in severe abrasive conditions.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG25-AF
内径InsideDiameter	700mm-1200mm
工作压力WorkingPressure	2.5MPa-4.0MPa
设计比重Design SG	1.0-2.4
浮力储备Flotation Reserve	20%-25%
耐切割层Armor Hardness	HB400-HB550
标准长度Standard Length	6.1m-11.8m
端部连接End Fittings	钢法兰 Steel Flange

铠装排泥管 | Armored Discharge Hose



铠装排泥管 GS-DG26-AD
Armored Discharge Hose GS-DG26-AD

尖锐颗粒重载排送工况 | Heavy Duty Discharge for Sharp Abrasive Media

产品概述 | Product Overview

耐切割排泥管适用于高浓度、强磨蚀并夹带尖锐颗粒的排泥工况，可用于疏浚主排线、增压泵后排线以及岸线高磨损输送段。相比普通排泥管，该类产品更强调工作层耐切割性能、骨架层抗冲击能力及端部连接可靠性，以适应更严苛的输送工况和更高的维护周期要求。

Armored discharge hose is intended for severe-duty discharge service involving sharp, coarse and highly abrasive solids. Compared with a standard discharge hose, this family is designed around improved cut resistance in the working tube, stronger reinforcement against impact and dependable end fitting retention for demanding dredging pipelines and shore discharge applications.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG26-AD
内径InsideDiameter	500mm-1200mm
工作压力Working Pressure	2.5MPa-4.0MPa
标准长度Standard Length	1m-11.8m
耐切割层Armor Hardness	HB400-HB550
内衬材料Inner Liner	耐切割 / 耐磨橡胶 Cut Resistant / Abrasion Resistant Rubber
端部连接End Flange	钢法兰 Steel Flange
适用介质Typical Medium	含尖锐颗粒泥浆 Sharp and Abrasive Slurry

铠装吸排疏浚管 | Armored Suction / Discharge Hose



铠装吸排疏浚管 GS-DG27-ASD

Armored Suction / Discharge Hose GS-DG27-ASD

吸排双工况重载服务 | Combined Suction and Discharge Heavy Duty Service

产品概述 | Product Overview

耐切割吸排疏浚管用于既需要承受负压抽吸、又需要承受正压排送的重载疏浚工况，适合输送含有较大、较尖锐固体颗粒的浆体介质。该类产品在结构上同时兼顾真空抗塌陷、压力输送、耐切割和耐磨损性能，适用于特殊工况、过渡工况或项目定制型吸排系统。

Armored suction / discharge hose is intended for severe duty service where both suction capability and discharge pressure performance are required in one hose structure. It is especially suitable for media containing large or sharp solids, and is typically engineered to combine vacuum stability, pressure transfer, cut resistance and abrasion resistance within a single heavy-duty hose body.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG27-ASD
内径Inside Diameter	500mm-1200mm
工作压力Working Pressure	2.5MPa-4.0MPa
真空度Vacuum Resistance	-0.08MPa
标准长度Standard Length	1m-11.8m
耐切割层Armor Hardness	HB350-HB500
端部连接End Connection	钢法兰 Steel Flange
应用场景Typical Service	重载吸泥 / 排泥 Severe Suction and Discharge

伸缩补偿节 | Expansion Joint



伸缩补偿节 GS-DG28-EJ

Expansion Joint GS-DG28-EJ

位移补偿与振动隔离 | Movement Compensation and Vibration Isolation

产品概述 | Product Overview

伸缩补偿节用于吸收相邻管段之间的轴向位移、横向偏移、角度偏转和安装误差，并减小振动和局部应力向系统其他部位传递。该类产品常布置在设备接口、刚柔过渡段、转接段或需要提高安装容差的工位，用于提升系统运行稳定性和维护便利性。

Expansion joint is used to absorb axial movement, lateral displacement, angular misalignment and installation tolerance between connected sections of a piping or hose system. It also helps reduce vibration transfer and local stress concentration, making it a practical solution for equipment interfaces, rigid-to-flexible transitions and other dynamic service points in dredging systems.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG28-EJ
公称通径Nominal Bore	100mm-1300mm
工作压力Working Pressure	0.5MPa-3.0MPa
真空度Vacuum Resistance	-0.1MPa
法兰间距Face to Face	0.2m-1.0m
轴向补偿Axial Movement	50mm-150mm
横向位移Lateral Displacement	25mm-100mm
角向偏转Angular Deflection	±10°

高压冲水管 | Jet Water Hose



高压冲水管 GS-DG29-JW
Jet Water Hose GS-DG29-JW

疏浚设备高压冲洗工况 | High Pressure Flushing Service on Dredging Equipment

产品概述 | Product Overview

高压冲水管主要用于耙吸船拖头冲水系统、绞刀辅助冲洗系统及其他需要高压供水的疏浚设备单元，用于冲散沉积物、辅助松动介质并改善吸排效率。该类产品通常要求具备较高的耐压能力、良好的柔性和稳定的连接可靠性，以适应设备运动、海水环境和频繁启停带来的工况变化。 Jet water hose is typically used on draghead flushing systems, cutter support flushing systems and other dredging equipment that requires high-pressure water delivery. The hose is designed to combine pressure retention, flexibility and connection reliability so that it can perform under equipment movement, marine exposure and repeated start-stop flushing duty.

技术参数 | Technical Parameters

参数Parameter	规格Specification
型号Model	GS-DG29-JW
内径InsideDiameter	100mm-450mm
工作压力WorkingPressure	2.5MPa
试验压力Test Pressure	3.75MPa
标准长度Standard Length	10m-11.8m
输送介质Typical Medium	淡水 / 海水 Fresh Water / Seawater
连接形式End Connection	法兰 / 快速接头 Flange / Quick Coupling
外覆层Cover	耐候耐海水外胶 Weather and Seawater Resistant Cover

艏喷系统软管组件 | Bow Blowing Hose Set



艏喷系统软管组件 GS-DG30-BB
Bow Blowing Hose Set GS-DG30-BB

TSHD 艏喷系统柔性连接组件 | Flexible Hose Assembly for TSHD Bow Blowing Systemolation

产品概述 | Product Overview

艏喷系统软管组件用于耙吸船艏喷作业中的柔性连接与输送控制，通常由头浮体、过渡软管、主管段和连接件组合而成，用于在船舶与艏喷系统之间建立快速、稳定的作业连接。该类组件强调整体配置逻辑、浮力布置、现场识别和连接便利性，适合按项目工况进行成套设计和供货。 Bow blowing hose set is a flexible assembly used in TSHD bow blowing operations to establish a quick and reliable connection between the vessel and the bow blowing system. Publicly available layouts usually describe the set as a project-based combination of head float, transition hose, floating hose sections and matching fittings, with emphasis on buoyancy arrangement, easy identification and practical field assembly.

技术参数 | Technical Parameters

参数Parameter	规格Specification
典型配置Typical Configuration	头浮体 + 过渡管 + 主管 + 连接件 Head Float + Transition Hose + Mainline Hose + Fittings
典型型号Typical Set Code	GS-DG30-BB
连接方式Connection Method	法兰 / 快速接头 Flange / Quick Coupling
组件识别Identification	颜色标识 / 编号标识 Color Band / Marking
浮力布置Buoyancy Arrangement	头浮体 + 局部浮力 Head Float + Local Buoyancy Arrangement

系统组成 | Set Composition

组件Component	典型代码Typical Code	功能Function
Head Float 头浮体	BB-HF	提供头部浮力与识别 Provide buoyancy and identification
Transition Hose 过渡管	GS-DG22-TF	实现浮沉过渡 Control line profile transition
Floating Hose 主浮式段	GS-DG21-FD	提供艏喷主输送通道 Main transfer section

漂浮疏浚管工况信息采集表 Floating Dredge Hose Information Collection Form

Please provide as much as you can for the best floating dredge hose design.

为了更好的漂浮疏浚管设计，请尽可能全面填写如下信息。

1. Customer info(客户信息):

Customer / Company (客户/公司):

Project name(项目名称):

Contact person(联系人): Email / Tel:

2. Port and application field(港口以及应用领域):

Port / Area (港口/区域):

☐ Port dredging 港口疏浚 ☐ Channel dredging 航道疏浚 ☐ Land reclamation 吹填造地

☐ Mining / tailings 矿砂 / 尾矿 ☐ Others 其他

3. Location(位置及系统):

Location (位置):

☐ Offshore海上 ☐ River河道 ☐ Lake湖区 ☐ Nearshore近岸 ☐ Shore discharge岸上排放 ☐ Others其他

☐ CSD绞吸船 ☐ TSHD耙吸船 ☐ Dredge pump泥泵站 ☐ Barge / pontoon驳船/浮箱 ☐ Bow blowing艏喷

4. Environment Conditions(环境因素):

4.1 Water depth(水深): (a) Wave height(波高):

4.2 Dredging depth (疏浚深度): (b) Wave period(波高):

4.3 Tidal range(潮汐变化): (c) Wind speed(风速):

4.4 Current speed (流速 / 海流): (d) Ambient temperature(环境温度):

5. Purpose(用途):

☐ Floating discharge漂浮排泥 ☐ Suction吸泥 ☐ Shore discharge岸上排放 ☐ Transition/Tapered过渡/锥形

☐ Jet water高压冲水 ☐ Expansion joint伸缩补偿

6. Medium (介质):

6.1 Medium type 介质种类

☐ Silt淤泥 ☐ Clay粘土 ☐ Sand砂 ☐ Gravel砾石 ☐ Coral珊瑚 ☐ Rock碎石 ☐ Ore / tailings矿砂 / 尾矿

6.2 Specific gravity(密度): 6.5 Max. particle size(最大颗粒):

6.3 Solid concentration (固体浓度): 6.6 Average particle size(平均颗粒):

6.4 pH value (pH值): 6.7 Slurry temperature(浆体温度):

7. Operating Conditions(工作工况):

7.1 Working pressure(工作压力): 7.4 Flow rate/capacity (流速/流量):

7.2 Max. pressure(最大压力): 7.5 Pump power/head(泵功率/扬程):

7.3 Suction vacuum (吸入真空度): 7.6 Operating hours/day(每天工作时长):

8. Hose Requirement(软管要求):

☐ Floating Discharge Hose漂浮排泥主管 ☐ Tapered/Half Floating Hose锥形/半漂浮过渡管

☐ Armored Floating Hose铠装漂浮管 ☐ Discharge Hose排泥管 ☐ Suction Hose吸泥管

☐ Armored Suction/Discharge Hose铠装吸排管 ☐ Jet Water Hose冲水管 ☐ Bow Blowing Hose Set艏喷管组

ID (内径): Length (长度): Quantity (数量):

Buoyancy reserve(浮力储备): Min. bend radius(最小弯曲半径): Wear layer(耐磨层):

Please complete as fully as possible to allow prompt quotation.

请尽可能完整地填写如下信息，以便及时报价。

9. End Connection (端部连接):

9.1 Flange standard 法兰标准 9.4 Flange material 法兰材质

☐ ANSI ☐ DIN ☐ JIS ☐ PN ☐ Customer Spec 客户要求 9.5 Bolt hole / PCD 螺栓孔/节圆

9.2 Flange pressure rating 法兰压力等级 ☐ Fixed flange 固定法兰 ☐ Swivel flange 活套法兰

9.3 Flange face 法兰面 ☐ Quick coupling 快速接头

10. Hose String / Layout(软管串及布置):

10.1 Total pipeline length 管线总长度

10.2 Floating hose string quantity 漂浮管串数量

☐ Floating pipeline 漂浮管线 ☐ Sinker/submerged pipeline 沉管/水下管线 ☐ Ship to shore 船到岸

☐ Shore pipeline 岸上管线 ☐ Temporary/movable 临时/移动

10.3 Layout drawing / sketch 布置图 / 草图

☐ Attached 已提供 ☐ Required with BID 招标书一起提交 ☐ Required when ordered 下单时需要提供

11. Inspection (检测要求):

11.1 Hydrostatic test 水压测试 ☐ Not Required 不需要第三方检测

11.2 Vacuum test 真空测试 ☐ Required 需要第三方检测

11.3 Dimensional inspection 尺寸检测 ☐ All hose 所有胶管 ☐ Random test 抽检

☐ At Customer's account 买家支付

☐ At Manufacturer's account 工厂支付

12. Package / Marking (包装与标识):

12.1 Package 包装 ☐ Factory brand 工厂品牌 ☐ Customer's brand 客户商标

12.2 Color 颜色 ☐ Serial number 序列号 ☐ Direction mark 流向标识

12.3 Reflective strip 反光条 ☐ Lifting mark 吊装标识 ☐ Wear indicator 耐磨指示层

13. Quotation / Delivery(报价及交货信息):

Date of inquiry 询价日期 Required quotation date 报价日期

Required delivery date 交货期 Destination 交货地

☐ EXW With TAX ☐ FOB Tianjin / Qingdao ☐ CIF Port 目的港

☐ US Dollar 美金 ☐ Chinese RMB 元 ☐ Others 其他

14. Details(胶管详情):

No	Description 胶管描述	Size 尺寸	Length 长度	Connection 连接	WP 工作压力	Quantity 数量	Remarks 备注
1							
2							
3							
4							
5							

15. Additional notes(其他备注):