

Dredging Hose

Powering Marine Worldwide



GETSAF MARINE
HOSE CATALOGS



OPERATING CONDITION
SURVEY FORM - GETSAF

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公司简介 | Company Profile



盖茨流体科技（日照）有限公司是一家专注于海洋软管研发与智能制造的企业。公司坐落于日照市北经济技术开发区，引进并采用日本 Toyokawa 的海洋软管制造技术及专业生产设备，建立了涵盖产品研发、生产制造、质量检测与销售服务的全链条一体化体系，可为国内外客户提供专业、高效的海洋流体输送解决方案。

公司产品已出口至东南亚、中东、欧洲、非洲及美洲等多个国家和地区，广泛服务于全球石油公司、海洋工程企业及海上运营商。

盖茨流体科技（日照）有限公司隶属于青橡集团，是集团布局海洋软管产业的核心企业。母公司青岛青橡橡胶有限公司创立于2008年，坐落于青岛西海岸新区，是国家高新技术企业，并获评青岛市企业技术中心。集团拥有十余年流体输送软管研发与制造经验，建有占地约130,000平方米的现代化生产基地，员工总数超过700人，并配套建设高标准软管研发与检测中心，具备从原材料检验、产品设计、生产制造到成品测试的全过程质量控制能力。

在技术研发方面，集团与北京科技大学、青岛科技大学持续开展产学研合作，联合推进海洋软管材料、结构及制造工艺的研发与创新；同时在马耳他设立欧洲技术中心，为全球客户提供技术支持与本地化服务。

Getsaf Marine (Rizhao) Co., Ltd. is an enterprise dedicated to the R&D and intelligent manufacturing of marine hoses. Located in the Rizhao North Economic and Technological Development Zone, the company utilizes marine hose manufacturing technology and specialized equipment imported from Japan's Toyokawa. It has established an integrated, full-chain system covering product R&D, manufacturing, quality inspection, and sales services, enabling it to provide professional and efficient marine fluid transfer solutions to domestic and international clients.

The company's products have been exported to numerous countries and regions across Southeast Asia, the Middle East, Europe, Africa, and the Americas, serving global oil companies, marine engineering firms, and offshore operators.

Getsaf Marine (Rizhao) Co., Ltd. is a member of QINGFLEX Group and serves as the Group's core enterprise for marine hose business. Its parent company, Qingdao Qingflex Hose Factory was founded in 2008 and is located in the Qingdao West Coast New Area; it is recognized as a National High-Tech Enterprise and a designated Qingdao Enterprise Technology Center. The Group possesses over a decade of experience in the R&D and manufacturing of fluid transfer hoses. It operates a modern production base covering approximately 130,000 square meters and employs a workforce of over 700 people. Supported by a high-standard hose R&D and testing center, the Group maintains comprehensive quality control capabilities spanning the entire process—from raw material inspection, product design, and manufacturing to finished product testing.

Regarding technical R&D, the Group maintains ongoing industry-academia-research collaborations with the University of Science and Technology Beijing and Qingdao University of Science and Technology to jointly advance innovation in marine hose materials, structures, and manufacturing processes. Additionally, it has established a European Technology Center in Malta to provide technical support and localized services to global customers.

Dredging Hose

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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 Steel 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	20%-30%
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

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

排泥管 | Discharge Hose



钢法兰排泥管 GS-DG23-DH
Discharge Hose with Steel Nipple
GS-DG23-DH



胶法兰排泥管 GS-DG23-DH
Discharge Hose with Sandwich Flange
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 / 胶法兰 Steel Flange / Sandwich 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	胶法兰 / 钢法兰 Rubber Flange / Sandwich Flange
最小弯曲半径Min Bend Radius	约 4×DN

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



钢法兰铠装管 GS-DG27-ASD
Armored Hose with Steel Nipple
GS-DG27-ASD



胶法兰铠装管 GS-DG27-ASD
Armored Hose with Sandwich Flange
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InsideDiameter	500mm-1200mm
工作压力WorkingPressure	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/胶法兰 Steel Flange/Sandwich 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Inside Diameter	100mm-450mm
工作压力Working Pressure	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

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):

4.1Water depth(水深): (a)Wave height(波高期):
4.2Dredging 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

6.2Specific gravity(密度): 6.5Max.particle size(最大颗粒):
6.3Solid concentration (固体浓度): 6.6Average particle size(平均颗粒):
6.4pH value (pH值): 6.7Slurry temperature(浆体温度):

7. Operating Conditions(工作工况):

7.1Working pressure(工作压力): 7.4Flow rate/capacity (流速/流量):
7.2Max. pressure(最大压力): 7.5Pump power/head(泵功率/扬程):
7.3Suction vacuum (吸入真空度): 7.6Operating 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
☐ Fixed flange固定法兰 ☐ Swivel flange活套法兰
9.2 Flange pressure rating法兰压力等级
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
11.2 Vacuum test真空测试
11.3 Dimensional inspection尺寸检测
☐ Not Required 不需要第三方检测
☐ Required 需要第三方检测
☐ 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
12.2 Color颜色
12.3 Reflective strip 反光条
☐ Factory brand工厂品牌 ☐ Customer's brand客户商标
☐ Serial number序列号 ☐ Direction mark流向标识
☐ 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):