



HDPE Dredging Pipeline

SUNPLAST

Ningbo Sunplast Pipe Co., Ltd

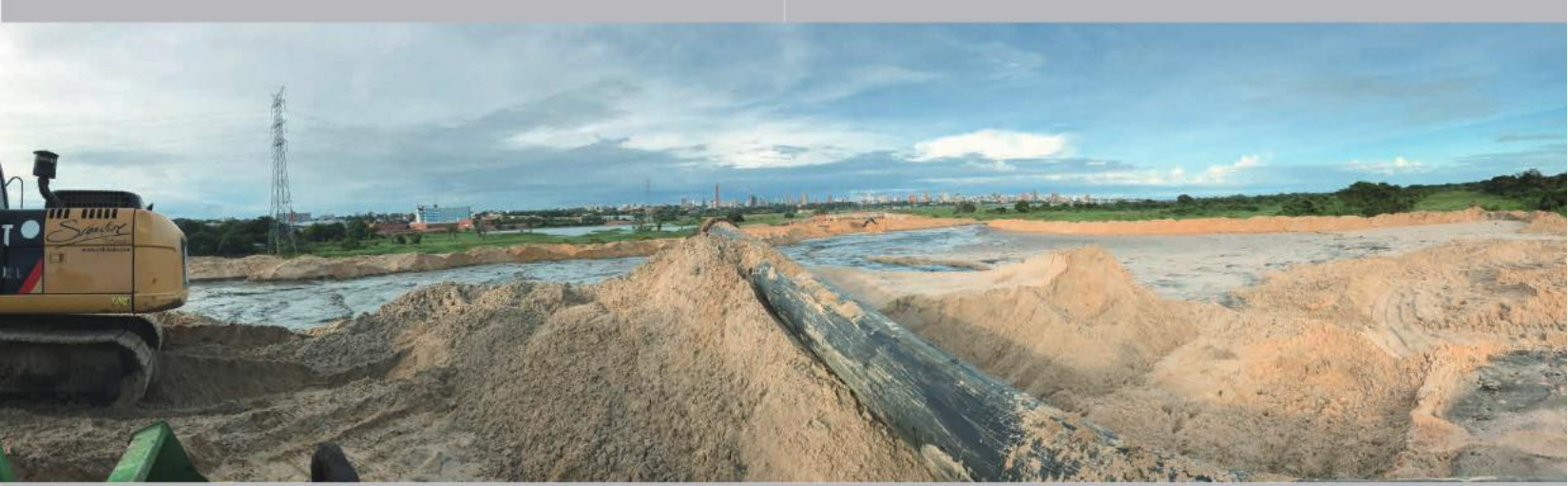
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SUNPLAST

Global Piping Solution Provider!



Ningbo Sunplast Pipe Co.,Ltd is a high-tech enterprise which integrates manufacturing, supplying and exporting range of HDPE Pipe&Fitting, Pipe Floater, Suction/Discharge Hose since 2006.

Ningbo Sunplast Pipe Co.,Ltd can produce HDPE Pipe&Fitting for water supply, irrigation, gas, drainage, sand/slurry dredging, geothermal, communication

cable protection and construction. The Pipe Floater and Rubber Hose are widely used for mining, sand/slurry dredging and reclamation by customers from home and abroad.

Ningbo Sunplast Pipe Co.,Ltd delicates to innovation and R&D, and quality is always taken as life. We strictly follows the ISO9001 quality system and ISO14001 environmental system for production.

Ningbo Sunplast Pipe Co.,Ltd is full of confidence in challenging from future. We are heading for the modernized multinational enterprise with scientific management, advanced technology, and magnificent scale so as to promote the living standard of human beings.

Main Market

Asia



North America



South America



Oceania



Europe



Africa



HDPE

Dredging Pipeline

- Dredger Pipeline
- Floating/Shore HDPE Pipe
- Discharge Steel Pipe
- PE Pipe Float
- Suction/Discharge Hose



Dredger Pipeline 1

Floating/Shore HDPE Pipe 1-2

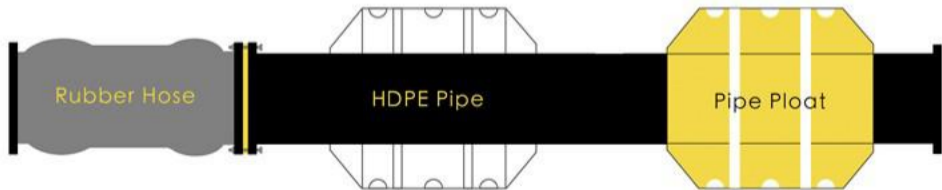
Discharge Steel Pipe 3

PE Pipe Float 3-4

Suction/Discharge Hose 5



DREDGING PIPELINE FOR CUTTER SUCTION DREDGER



Dredger Pipeline

Ningbo Sunplast Pipe Co. is focused on serving dredger pipeline, which includes Floating/Shore HDPE Pipe, Discharge Steel Pipe, Pipe Floater and Suction/Discharge Hose, Floating Hose&Armored Hose.

The assemblies on land for dredging conducts mainly exist by HDPE Pipe with several steel accessories like bends, hydraulic valves, ball joints, diffusers, spreaders and reclamation boxes.

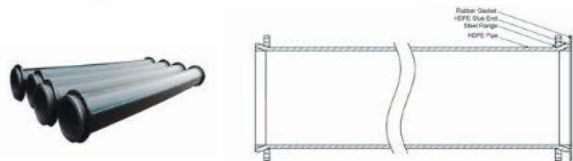
Ningbo Sunplast Pipe Co dredger pipeline have unique features for a long term, corrosion free abrasion resistant & low maintenance performance in the seas, lakes and all other water bodies. The high density PE pipes are pre-welded with stub-ends & steel angles.



To reduce the cost per cubic meter of dredged material, the ship builders, in the last years have turned their interests into building CSD (Cutter Suction Dredger) and TSHD (Trailing Suction Hopper Dredgers) of large dimensions.

The evolution in the 60's saw installed diesel power of 10,000 kW to reach 13,000 KW of power in the 70's, to then continue in the 80's with 15,600 KW of power to 20,500 KW power in the 90's, growing to 22,400 KW of power in the 2000, to eventually reach a power of 27,000 KW in the year 2015.

Floating/Shore HDPE Pipe



Floating/Shore HDPE Pipe is made from high density polyethylene resin. It has high rigidity and toughness, with little resistance but high mechanical strength. It has ultra-high wear resistance, abrasion degree is 4-8 times of steel pipe, useful life can reach more than five years. It is very light so it's easy to install and transport and then save construction time.

Total Length ≤12m; Working pressure and inner diameter can be customized.

HDPE pipes, equipped with or without collars and swivel flanges. Ideal in combination with pipe floater for slurry and sand dredging applications.

AVAILABLE IN:

- Qualities PE80 and PE100
- Pressure levels PN 4 up to PN25
- Various diameters
- All lengths, up to 20 meters

HDPE WELDING COLLARS

AVAILABLE IN:

- Qualities PE80 and PE100
- Pressure levels PN 3.2 up to PN25
- Various diameters

FLANGES

Steel flanges in various patterns and according to international standards (ISO, JIS, DIN, ASTM etc.) adjusted to the outside diameter of the HDPE pipe.

HDPE BENDS

HDPE bends for shore lines, available in various wall thicknesses, diameters and angles.

Y-PIECES

HDPE Y-pieces for shore lines, available in various wall thicknesses and diameters.

NOMINAL DIAMETER	WALL THICKNESS EN (MM)				
	SDR26	SDR21	SDR17	SDR13.6	SDR11
	PN6	PN8	PN10	PN12.5	PN16
110mm	4.2	5.3	6.6	8.1	10.0
125mm	4.8	6.0	7.4	9.2	11.4
140mm	5.4	6.7	8.3	10.3	12.7
160mm	6.2	7.7	9.5	11.8	14.6
180mm	6.9	8.6	10.7	13.3	16.4
200mm	7.7	9.6	11.9	14.7	18.2
225mm	8.6	10.8	13.4	16.6	20.5
250mm	9.6	11.9	14.8	18.4	22.7
280mm	10.7	13.4	16.6	20.6	25.4
315mm	12.1	15.0	18.7	23.2	28.6
355mm	13.6	16.9	21.1	26.1	32.2
400mm	15.3	19.1	23.7	29.4	36.3
450mm	17.2	21.5	26.7	33.1	40.9
500mm	19.1	23.9	29.7	36.6	45.4
560mm	21.4	26.7	33.2	41.2	50.8
630mm	24.1	30.0	37.4	46.3	57.2
710mm	27.2	33.9	42.1	52.2	64.5
800mm	30.6	38.1	47.4	58.6	72.6
900mm	34.4	42.9	53.3	66.2	81.7
1000mm	38.2	47.7	59.3	72.5	90.2
1200mm	45.9	57.2	70.0	86.2	--
1400mm	53.5	66.7	82.4	102.9	--
1600mm	61.2	76.2	94.1	117.6	--

Discharge Steel Pipe



For both the floating line, as well as the shore line, steel pipes are often used. It's a relatively cost effective way of transporting the slurry.

SUNPLAST Pipe offers a wide range of steel pipes in steel grades S275 and S355, produced under international ASTM, EN and API standards, ensuring a good quality product.



SSAW PIPE | Spiral welded steel pipes for dredging floating and shore lines. Available in various wall thicknesses, diameters and lengths up to 12000 mm.

LSAW PIPE | Longitudinal welded steel pipes for dredging floating and shore lines. Available in various wall thicknesses, diameters and lengths up to 12000 mm.

FLANGES | Steel flanges in various patterns and according to international standards (ISO, JIS, DIN, ASTM etc.).

STEEL BENDS | Longitudinal welded steel pipes for dredging floating and shore lines. Available in various wall thicknesses, diameters and lengths up to 12000 mm.

Y-PIECES | Steel Y-pieces for shore lines, available in various wall thicknesses and diameters.

PE Pipe Floater

Constructed from 100% closed cells reticulated foam, embedded layers of high tenacity fabrics and hot sprayed elastomer skin coating, PE cylindrical floats are produced by rotational moulding.

Available in two halves with coupling bolts or in monolithic version without bolts.

General characteristics

- Color: yellow, orange, red, blue.
- Accessories: screws, washers, nuts, spacers.
- Outer surface: smooth or ribbed.
- Empty: suitable for sea depth of 2/3 meters.
- Full with polyurethane: suitable for sea depth of 40 meters.



PIPE FLOATER SPECIFICATION

Nominal Diameter (mm)	Floater Inner Diameter (mm)	Floater Outer Diameter (mm)	Floater Length (mm)	Buoyancy (Kg)
100	130	500	500	90
150	180	500	500	140
200	230	600	700	170
250	280	700	900	340
300	330	1000	1000	500
350	380	1100	1100	550
400	430	1200	1200	1100
450	480	1300	1300	1150
500	530	1300	1400	1300
550	580	1400	1500	1600
600	630	1450	1650	1900
650	680	1500	1800	2100
700	730	1600	1900	2200
750	780	1700	1900	2700
800	830	1800	2000	3100
850	880	2000	2500	4600
900	930	2200	2600	5000

PIPE FLOATER CHARACTERISTICS

Item	Shell Performance	Item	Pu Foaming Performance
Tensile strength	≥13.1Mpa	Water absorption	1-2g/100cm²
Break Elongation	≥11.1%	Breaking strength	0.08-0.1MPa
Impact strength	≥32.4KJ/M²	Breaking elongation	4-6%
Bending strength	≥15.7MPa	Compressive strength	0.1-0.24MPa
Shell density	0.918-0.922g/m³	Filler density	45kg/m³
Oxidative induction time 200°C/mm			10
Weather resistance after total energy≥3.5GJ/M²			

Suction/Discharge Hose

Suction, discharge and floating hoses for dredger and sand winning applications. Excellent quality dredger hoses, for competitive price. Available in diameters up to 1200 mm and in various lengths and pressure ratings.



Dredger Suction Hose

Rubber suction hoses, available as spiral type or as separate ring type, in diameters up to 1200 mm, In various lengths and pressure ratings.



Dredger Discharge Hose

Though abrasion resistant rubber dredger hoses, suitable for dredging sand and slurry. Available in diameters up to 1200 mm, in various lengths and pressure ratings.



Dredger Floating Hose

Self-floating hoses, suitable for the harshest of sea conditions. Equipped with PE foam body, adjusted to the pumped material. Available in diameters up to 1200 mm, in various lengths and pressure ratings.



Dredger Armored Hose

Armored hoses for the pumping of highly abrasive material. Equipped with extra abrasion resistant wear lining. Available in diameters up to 1200 mm, in various lengths and pressure ratings.

