



Baroma Steel

Mooring Hawser

Offshore & Marine



PRODUCT INFORMATION

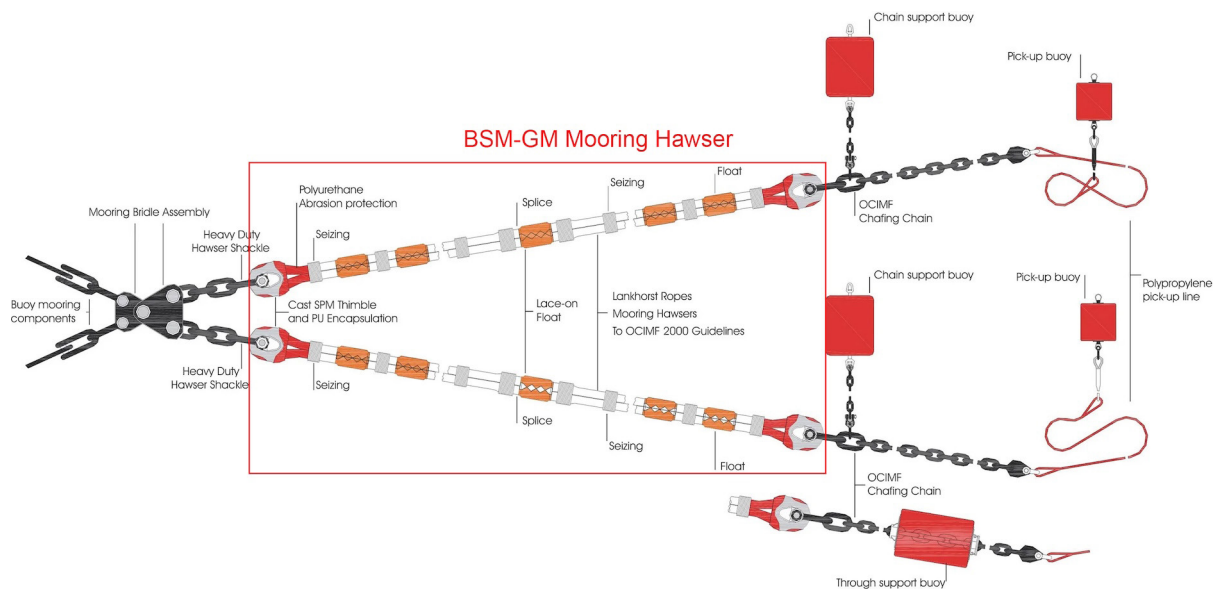
Features

- Type: Grommet Type Mooring Hawser
- Material: Polyamide(nylon 66)
- Construction: Load-bearing cores with a protective cover of polyamide.
- Application: Marine fishing & Oil & Gas Industry.
- Colour: White.
- Density: 1.14g/cm³.
- Melting Point: 215 Deg C
- Abrasion Resistance: Excellent.
- U.V.Resistance: Excellent.
- Temperature Resistance: 80 Deg C max continuous.
- Chemical Resistance: Reasonable; acids, oxidisers & solvents will affect nylon.
- Dry & Wet Conditions: Wet strength approximately 5% lower than dry strength.
- Weight: +5% Tolerance.
- SPM Polyamide Mooring Hawsers are manufactured in accordance with OCIMF 2000 regulations.

Polyamide/Nylon Parameters

Dia.	Dia.	Circ.	Min. Break Load		Weight
mm	in.	in.	tf	kN	kg/100M
32	1-5/8	4	25.3	248	65
36	1-1/2	4-1/2	32	314	83.6
40	1-5/8	5	38.4	377	100
44	1-3/4	5-1/2	50	491	125
48	2	6	59	579	148
52	2-1/8	6-1/2	63.7	625	160
56	2-1/4	7	78.5	770	200
60	2-1/2	7-1/2	85.5	839	217
64	2-5/8	8	97	952	245
68	2-3/4	8-1/2	110	1079	280
72	3	9	127	1246	335
78	3-1/5	9-3/4	136	1334	364
84	10-1/2	10-1/2	158	1550	425
90	11-1/4	11-1/4	186	1825	505
96	12	12	215	2109	585
104	4-1/4	13	235	2308	665
112	4-5/8	14	269	2639	770
120	5	15	301	2951	850
128	5-1/4	16	339	3330	940
136	5-4/5	17	379	3722	1080

**Depending on the type of material chosen and the combination of conditions are not always considered.*



Typical SPM Hawser Set up

The polyamide double braided rope is a parallel construction mooring line developed for deep water single point mooring applications. The rope is engineered with three functional components: a load bearing core, an intermediate sand barrier, and an external protective cover, ensuring reliable performance in demanding marine environments.

The load bearing core is constructed from multiple strands arranged parallel to the rope axis. This parallel strand design provides efficient load sharing, high tensile strength, and excellent stability under cyclic loading conditions commonly encountered in permanent mooring systems. An integrated sand barrier is incorporated between the core and the outer cover. This layer prevents the ingress of sand and abrasive particles, protecting the internal load bearing elements and helping to maintain consistent mechanical performance throughout the service life of the hawser.

The double braided construction comprises a 12 strand polyamide core enclosed within a tightly braided polyamide cover. This configuration offers a high strength to diameter ratio together with excellent abrasion resistance and resistance to external mechanical damage, making it a preferred choice for single point mooring applications.

Both ends of the hawser are finished with hand spliced eyes fitted with galvanised cast steel thimbles. The eye sections are polyurethane coated to enhance abrasion resistance at critical wear points. Buoyancy elements in the form of water wings are installed along the length of the hawser to provide the required flotation and configuration during operation. The rope is manufactured in accordance with recognised industry standards and aligned with OCIMF guidelines for single point mooring hawsers.

Manufacturing & Testing Facilities

Extrusion



Fully automatic extrusion line



Next-generation extrusion machine



Monofilament winding machine

Twisting & Braiding



Fully automatic fibre twisting machine



Fully automatic monofilament twisting machine



90-16 braiding machine



130-16 braiding machine



12-strand rope braiding machine

Testing Facilities



Tensile test bed



Hawser in the test bed



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