



2220 Engineers Road  
Belle Chasse, LA 70037

www.rasmussenco.com

Phone [Redacted]  
Fax [Redacted]

Customer #: [Redacted]

P & L TOWING & TRANSPORTA

Phone [Redacted]

14501 S.W. 21 STREET  
ATTN: ACCTS PAYABLE  
DAVIE, FL 33325

**Status: Reservation**

Contract #: 60642-2

Reserved Date: Thu 4/29/2021 9:00AM

Sales Coordinator: DREW HIMEL

Terms: Net 30 Days

Ordered By: Robert Kumitsch

Sales Rep: Alex Smith

**Job Address Start Date Fri 4/23/2021 9:00AM**

Robert Kumitsch [Redacted]  
DAVIE FL  
14501 SW 21st Street  
FORT LAUDERDALE, FL 33325

Qty	Item/Part#	Items Sold	Status	Each	Price
2		HYPER-XII BLUE LINE 1-3/4 X 80 HYPER-XII BLUE LINE THIMBLE X 3' RIVER GUARD EYE WITH 15FT RIVER GUARD BELOW EYE THEN A 2-1/4 X 20 HYPER-XII BLUE LINE THIMBLE X 3' EYE NO COVER SPLICED TO THE 1-3/4 LINE ON EYE END. On The 2 1/4" spectra the entire line should be covered	Selling	\$5,707.31	\$11,414.62
1		LTL - PREPAID Estimated LTL Truck 3-4 days	Selling	\$600.00	\$600.00

**Rental/Sales Contract**

NOTE: Images shown in the above are representative samples of the equipment models. Individual photos of specific models are available upon request.

WARNING: Winches and Hoists NOT to be used for Lifting, Lowering, or Transporting People or Including Over People. Floats are NOT available for ballasting. There will be a minimum charge of \$300.00 per float, if floats are not returned cleaned off.

It is the customer's responsibility to determine the suitability of the equipment to its intended use, including all industry regulations and guidelines. All equipment quoted FOB Seattle, WA or Belle Chasse, LA, or current location otherwise stated. All quotes valid 10-days and in US Dollars. Standard rental/sale terms and conditions may be viewed on the homepage at our website, www.rasmussenco.com

Lessee has been provided with the opportunity to review this standard equipment rental agreement, including the face page and the attached terms and conditions, and lessee's signature below expressly acknowledges that it agrees to be bound by the same, lessee acknowledges and accepts that this agreement contains provisions which limit the liability of lessor, exclude warranties on the part of lessor, and allocate risk of loss with respect to the equipment being rented.

Signature: \_\_\_\_\_

P & L TOWING & TRANSPORTA

Sales:	\$11,414.62
Delivery Charge:	\$600.00
Subtotal:	\$12,014.62
Total:	\$12,014.62
Paid:	\$0.00
Amount Due:	\$12,014.62

# GENERAL WORK PRODUCTS

## CERTIFICATE OF INSPECTION

RASMUSSEN EQUIPMENT CO.  
P&L TOWING  
PO 10530-2

2 EACH  
1-3/4 X 80' HYPER12 W/ HAWSWER THIMBLE x 3FT EYE

MBS 302,000 LBS

**GENERAL WORK PRODUCTS  
6000 JEFFERSON HWY  
HARAHAN, LA 70123**

Average break force test results apply only to new rope when tested according to Federal Specifications, or to Cordage Institute Standard Test Methods for Stranded or Plaited ropes. Break Force strengths can vary due to construction and yarn material.

Safe Working Loads are expressed as a ratio to tensile strength. Persons should be warned against standing in line with the rope. In all cases where any such risks are present, or there is any question about the loads involved or the conditions of use, the safe working load should be substantially reduced to the safe working loads, and the rope should be inspected.

**6000 JEFFERSON HWY - HARAHAN, LA 70123**  
p> [REDACTED] f>504-733-2996

**From:** [John Tomlinson](#)  
**To:** [Furukawa Robert](#)  
**Cc:** [Heidi Payne](#)  
**Subject:** RE: Towing bridle - please review; were 35-ton or 55-ton shackles used?  
**Date:** Friday, March 3, 2023 10:21:57 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[Spectra Bridle Rasumussen.pdf](#)  
[GWP-Spec-Sheet-HYPER-XII.pdf](#)  
[equipment we lost .msg](#)

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[CAUTION] This email originated from outside of the organization. Do not click any links or open attachments unless you recognize the sender and know the content is safe.

Rob,

In the rigging certificates submitted to you, I believe you have the wrong certificate for the bridle. I believe that bridle (ordered Feb 2020) was disposed of after chaffage from a previous job.

See attached order from 4/23/2021. I cannot find the actual certificate at the moment I have provided but the order/invoice. I have sent an email out to the supplier now. Also attached are the breaking strengths per diameter for the Hyper XII material. Note that 1 ¾ is 302,000 lb BS.

See also attached correspondence from the crew inventorying the rigging lost in the incident from 3/7/2022. This was sent from the Capt. Beau satellite email. The account was transferred from the Tug Hercules hence why the name is in the email but it is in fact used by the CB. The inventory says "2 75 foot 6" spectra line bridles" but the order says 80 feet. It also says 6" in the inventory which should be the circumference. A 6" C is about 2" in diameter while 1 ¾ diameter is 3 ¾ inches in circumference.

In the same email, it is listed that 2 x 55 ton shackles and 2 x 35 ton shackles were used. I assume we supplied the 55 ton shackles on our end as we were able to provide you with the certificates. I assume that Munir bought the 35 ton shackles as we do not have these and he told you he bought gear and would supply you with the information. The statement of fact will need to be amended to reflect 35 and 55 ton.

Regards,

John Tomlinson  
Vice President/Commercial Director  
P and L Towing and Transportation, Inc.  
*A Certified Woman Owned Small Business*  
UEI Number: [HXYLQKTX94L4](#)  
**BIMCO Registration: 180524**

14501 SW 21<sup>st</sup> Street  
Davie, Florida 33325  
Cell: [REDACTED]



New Orleans: (504) 733-1808  
 Houston: (713) 671-6061  
 New York: (845) 548-5655  
 California: (714) 994-3070

GeneralWorkProducts.com  
 PalmerSafetyUS.com

## TECHNICAL SPECIFICATIONS



Combining Small Diameters with High Breaking Strengths, the Tightest Rope with the Highest Breaking Strengths.



Diameter		Circumference	Weight	Minimum Breaking Strength*
(MM)	(INCH)	(INCH)	LB/100'	
5	3/16	9/16	1.0	4,900
6	1/4	3/4	1.6	7,700
8	5/16	1	2.7	12,300
9	3/8	1 1/8	3.6	17,600
11	7/16	1 1/4	4.2	21,500
12	1/2	1 1/2	6.4	30,600
14	9/16	1 3/4	7.9	36,500
16	5/8	2	10.2	47,500
18	3/4	2 1/4	13.3	58,000
22	7/8	2 3/4	19.6	81,700
24	1	3	21.8	98,100
28	1 1/8	3 1/2	31.9	133,000
30	1 1/4	3 3/4	36.2	149,000
32	1 5/16	4	41.8	166,000
34	1 3/8	4 1/8	45.0	185,000
36	1 1/2	4 1/2	51.7	205,000
40	1 5/8	5	65.2	255,000
44	1 3/4	5 1/2	78.4	302,000
48	2	6	87.0	343,000
52	2 1/8	6 1/2	109.0	411,000
56	2 1/4	7	116.0	484,000
60	2 1/2	7 1/2	148.0	529,000
64	2 5/8	8	167.0	595,000
68	2 3/4	8 1/2	187.0	662,000
72	3	9	206.0	749,000
80	3 1/4	10	244.0	915,000
96	4	12	343.0	1,270,000

GENERAL	SECTORS
<ul style="list-style-type: none"> <li>• 12-Strand Braided Rope Made of HMPE</li> <li>• Commonly Known as HMPE (High Modulus PolyEthylene)</li> <li>• Superior Abrasion Resistance</li> <li>• Very High Strength with Low Weight to Diameter Ratio</li> <li>• Easy in Handling and Operation</li> <li>• Comparable to Steel Wire Characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• Passenger and Container Ships</li> <li>• Bulk Carriers</li> <li>• LNG and LPG Carrier Barges</li> <li>• Tugs, Harbor Towing and Dredgers</li> <li>• Fishing Vessels and Nets</li> </ul>

TECHNICAL DATA	
Material:	Ultra – High Molecular Weight Polyethylene
Construction:	12-Strand Braided
Treatment:	Marine Finish
Color of Rope:	Blue or Orange
Approx. Specific Density:	0.975 Floating
Melting Point:	145° C
Abrasion Resistance:	Excellent
U.V. Resistance:	Good
Temperature Resistance:	70°C Max Continuous
Chemical Resistance:	Excellent
Dry & Wet Conditions:	Wet Strength Equals Dry Strength

MADE IN BELGIUM BY  
**BEXCO**



\* SPLICED STRENGTH

Specifications are subject to change without notice. General Work Products makes no warranties to the use for a specific use or installation of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. General Work Products recommends installing the herein specified products in accordance with ANSI A-10-11-1989 and OSHA 1926.502 or all applicable local, state or federal requirements. Correct installation is the sole responsibility of the user/installer.

# BEX-12

Combining small diameters with high breaking strengths, the lightest rope with the highest breaking strengths

## GENERAL

- 12-strand braided ropes made of HMPE
- Commonly known as HMPE : High Modulus PolyEthylene
- Improved abrasion resistance
- Very high strength and low weight to diameter ratio
- Easy in handling and operation
- Comparable to steel wire characteristics

## FEATURES

- Material: Ultra – High Molecular Weight Polyethylene
- Construction: 12-strand braided
- Treatment: Marine finish
- Color of Rope: dia < 32mm: grey – dia > 32mm: white
- Approx. Spec. Density: 0,975 floating
- Melting Point: 145° C
- Abrasion Resistance: Good
- U.V. Resistance: Good
- Temperature Resistance: 70°C max continuous
- Chemical Resistance: Excellent
- Dry & Wet Conditions: Wet strength equals dry strength

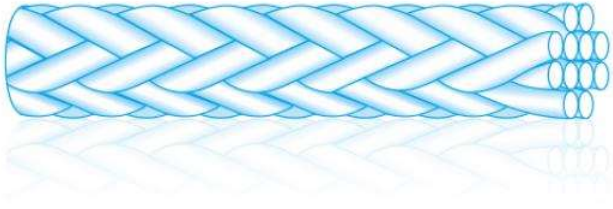
## GENERAL FEATURES

- Coil length: 220m
- Spliced strength: ± 10% lower
- Weight and length tolerance: ± 5%
- Diameter: ± 2%

ROPES WITH HMPE FIBER (12strand)					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
6	3/4	1/4	7.6	74.6	3.9
8	1	5/16	10.1	99.1	5.1
10	1 1/4	7/16	14.2	139.3	7.6
12	1 1/2	1/2	18.5	181.5	9.8
14	1 3/4	9/16	24.6	241	13.1
16	2	5/8	30.7	301	16.4
18	2 1/4	3/4	36.9	362	19.8
20	2 1/2	13/16	43.1	423	23.1
22	2 3/4	7/8	49.5	486	27.4
24	3	1	60.7	595	33.9
26	3 1/4	1 1/16	66.5	652	37.3
28	3 1/2	1 1/8	75.4	740	42.8
30	3 3/4	1 1/4	85.4	838	48.8
32	4	1 5/16	105	1029	61.7
36	4 1/2	1 1/2	123	1211	76.2
40	5	1 5/8	148	1447	92.1
44	5 1/2	1 3/4	171	1680	109.7
48	6	2	199	1953	129.2
52	6 1/2	2 1/8	226	2219	149.7
56	7	2 1/4	259	2538	171.2
60	7 1/2	2 1/2	289	2831	194.8
64	8	2 5/8	320	3139	220.4
68	8 1/2	2 3/4	354	3470	247.0
72	9	3	388	3806	274.7
76	9 1/2	3 1/8	427	4188	304.4
80	10	3 1/4	499	4896	369.0
88	11	3 5/8	576	5650	438.7
96	12	4	645	6325	514.6
104	13	4 1/4	740	7263	596.6
112	14	4 5/8	838	8220	684.9
120	15	5	941	9231	779.2
128	16	5 1/4	1050	10297	879.7
136	17	5 4/7	1164	11417	986.2
144	18	6	1283	12590	1098.8

MBL = Minimum Breaking Load conform ISO 2307  
Breaking strength without splices or any other termination.

Other sizes are available on request.



**BEXCO**  
OUR ROPE, YOUR SOLUTION