

# SLINGMAX® Technical Bulletin

## Type Testing

TB# 46

Date September 2012

### Type Testing of High Capacity Synthetic Fiber High Performance Slings

Slingmax® was the first to manufacture High Performance roundslings. In addition we were also the first to blend High Performance fibers to be used as cores in roundslings. Our ingenuity and desire for continuous improvement is attested in the fact that Slingmax® currently holds (5) different U.S. Patents on our roundsling technology.

Since 1990 we, and our family of Slingmax® dealers, have performed thousands of tests on our Twin-Path® High Performance fiber slings. Our testing has included break tests, cycle tests and tests on UV, chemical, heat, cold and yarn on yarn abrasion just to name a few.

Recently, we set out to prove that our highest catalogued sling rating could in fact meet a 5:1 design factor. To our knowledge no one has ever achieved a 5:1 design factor with High Performance synthetic roundslings over 2 million pounds breaking strength. During our testing we successfully completed a pull test to 3 million pounds! The slings in the series of destruction tests below were fabricated using our proprietary K-Spec® core yarn and Rifled Cover™ technology exclusive to Slingmax®, Inc.

For more information on our proprietary materials and manufacturing processes please see the 'Technical Bulletin' section on our website, [www.slingmax.com](http://www.slingmax.com).

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### Test Certificate YARBROUGH CABLE SERVICE, LLC

Customer: SLINGMAX RIGGING SOLUTIONS		Customer P.O. #: N_A	Test Date: 7/31/2012
<b>Product Description</b>		<b>Test Information</b>	
Description: TWINPATH SLING		Test Duration(Min:Sec): 7:28	
Length: 0ft 0.000in		Test Method: Proof = 0.0	
Size: TPXC40000		WLL: 800000.00 LBS	
Order/Serial No.: 71201		Peak Load: 2080400 LBS	
		Test Number: N.A	

Date: 7/31/2012

Certificate No. N/A

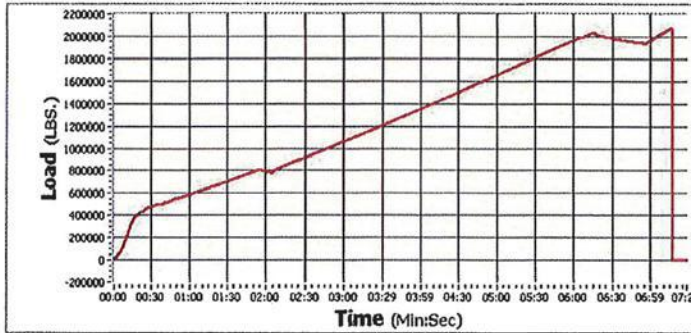
Customer: I & I SLING  
(SLINGMAX)

Customer P.O.# R & D

Customer Serial No. 71201

Yarborough Serial No. N/A

No. of Pcs 1



\_\_\_\_\_ This is to certify that YARBROUGH CABLE SERVICE, LLC has subjected the following items to a tension load test quoted herein. The test was applied to each item or each leg (if a multiple leg sling) and to it's attachments.

Description: LOADED A TPXC40,000 x 30' ON ø18" PINS

Max. Load: 2,080,400 LBS. WLL: 400,000 LBS. at N/A degrees angle

#### TEST RESULTS

SLING- TPXC40,000  
 WLL- 400,000 lbs  
 MINIMUM B.S. AT 5:1 DF-2,000,000 lbs  
 MAX. LOAD ACHIEVED-2,080,400  
 DESIGN FACTOR- 5.2:1

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 <p><b>Bishop Lifting Products, Inc.</b>          www.Lifting.com  <b>ProofTesting.com</b>  <i>Powered by InfoChip</i></p>	<p><b>Bishop Lifting Products</b>          125 McCarty          Houston, TX          77029          Ph. 713-674-2266</p>
<h3>Certificate of Test</h3>	

### Certificate of test

<b>Date:</b> 2012-09-13	<b>Test #:</b>	<b>Tested by:</b> Kevin.Wolfe
<b>Item Desc:</b> Twin Path Sling		<i>Kevin Wolfe</i>
<b>Asset #:</b> TEST 9-4-12		<b>Witness:</b>
<b>Chip ID:</b> IC01401481		
<b>Owner:</b> SLINGMAX, INC.	<b>Initial Location:</b> SLINGMAX, INC. (Site)	

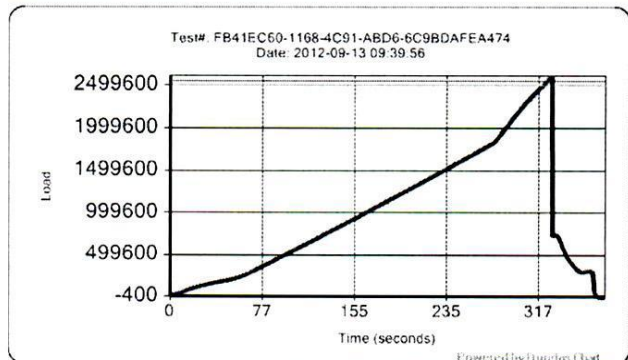
Item Characteristics	
Mfr	SLINGMAX, INC
Mfr Serial No.	TEST 9-4-12
WLL	500,000 LBS VERTICAL
Size	
Length	30 FT
End fitting 1	
End fitting 2	
Twin Path Sling Type	TPXC50000
Notes	BREAK TEST 10/13/2012

Tested on 16" diameter pins

Operation Name: Proof Test2	
Order #	
Cust PO#	
Proof Test Type	5.0 x WLL
Target Load	2500000
Peak Load	2607800
Target Load Hold Time	7.78 seconds
Test Number	FB41EC60-1168-4C91-ABD6-6C9BDAFEA474
Inspection Instruction	N/A
Certification Result	PASS
Generate Alert?	
Comments	
TimeStamp	2012-09-13 09:39:45 -05:00

### TEST RESULTS


SLING- TPXC50,000  
 WLL - 500,000 lbs  
 MINIMUM B.S. AT 5:1 DF - 2,500,000 lbs  
 MAX LOAD ACHIEVED- 2,607,800 lbs  
 DESIGN FACTOR- 5.2:1



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## Type Testing

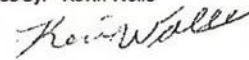
**TB# 46**  
**Date September 2012**

 <b>Bishop Lifting Products, Inc.</b> www.Lifting.com <b>ProofTesting.com</b> Powered by InfoChip	<b>Bishop Lifting Products</b> 125 McCarty Houston, TX 77029 Ph. 713-674-2266
	<h3>Certificate of Test</h3>
	Date: 2012-02-23 Item Desc: Twin Path Sling 5 X Capacity Asset #: P110911041N Chip ID: NOCHIPID Owner: SLINGMAX, INC.

Date: 2012-02-23  
 Item Desc: Twin Path Sling 5 X Capacity  
 Asset #: P110911041N  
 Chip ID: NOCHIPID  
 Owner: SLINGMAX, INC.

Test#: \_\_\_\_\_  
 Initial Location: \_\_\_\_\_  
 Site \_\_\_\_\_

Tested by: Kevin Wolfe



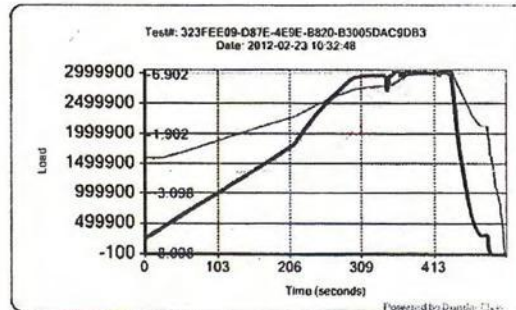
**Item Attributes:**

Mfr	SLINGMAX, INC.
Mfr Serial No.	P110911041N
WLL	600,000 LBS VERTICAL
End fitting 1	
Length	25 FT
Size	
End fitting 2	
Twin Path Sling Type	TPXCF 60,000
Notes	

**Proof Test2**

Order #	
Cust PO#	
Proof Test Type	5.0 x WLL
Target Load	3000000
Peak Load	3020800
Target Load Hold Time	73.81 seconds
Test Number	323FEE09-D87E-4E9E-B820-B3005D
	3
Inspection Instruction	N/A
Certification Result	PASS
Generate Alert?	
Comments	
TimeStamp	2012-02-23 10:21:11 -06:00

Tested on 16" diameter pins



**TEST RESULTS**

SLING - TPXCF60,000  
 WLL - 600,000 lbs  
 MINIMUM B. S. AT 5:1 DF- 3,000,000 lbs  
 MAXIMUM LOAD ACHIEVED - 3,000,000 lbs \*  
 DESIGN FACTOR- 5:1 \*

**\* SLING REACHED MAXIMUM CAPACITY OF THE TEST BED AT 3,000,000 lbs. TEST LOAD HELD FOR JUST UNDER 2 MINUTES WITH NO SLING FAILURE.**



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