



Contents	
Sheet	Description
001	Title Page
002	Boom Configuration
003	Build Sheet
004	Main Boom Pendants
005	1507 Jib Pendants
006	Main Boom Reeving 1
007	Main Boom Reeving 2
008	1507 Jib Reeving
009	Erection and Takedown
010	Load Chart

PROJECT:
LR 1300SX 164’ ST + 1507

LOCATION: -----

BUCKNER CONTACT: Dan Ives, PE
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LIFT PLAN BY: Dan Ives, PE
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DRAWING NOTES:
Title Page

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003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

7.13 Fixed jib 1507

System-relevant information for fixed jib 1507:

- Configuration of jib
- Configuration of main boom
 - Rope guide installation position
 - Mid-point suspensions installation positions
 - Spacer bracket installation position
- Lengths of mid-point suspensions
- Composition of main boom in derrick operation with fixed jib 1507 attached
 - Rope guide installation position
 - Mid-point suspensions installation positions
 - Spacer bracket installation position
- Length of mid-point suspensions in derrick operation with installed fixed jib 1507
- Overview of pendant straps on fixed jib 1507
- Reeving plans for one rope across jib head 1507
- Reeving plans for two ropes across jib head 1507
- Reeving plans for one rope across main boom head 2821

7.13.1 Configuration of jib

The fixed jib 1507 has a fixed length of 8 m (26 ft) .

Jib length	Configuration of jib (symbolic)
8 m 26 ft	

Tab. 378: Configuration of fixed jib 1507

7.13.2 Configuration of main boom

System-relevant information for main boom 2821 with installed fixed jib 1507:

- Configuration of main boom
 - Installation position of rope guide (type A)
 - Mid-point suspensions installation positions
 - Spacer bracket installation positions
- Lengths of mid-point suspensions



DANGER

Excess length of main boom!
Structural breakdown.

- Check main boom length in load chart for validity.

Main boom length	Configuration of main boom (symbolic)
50 m 164 ft	
53 m 174 ft	

Main boom length	Configuration of main boom (symbolic)
56 m 184 ft	
59 m 195 ft	
62 m 203 ft	
65 m 213 ft	
68 m 223 ft	
71 m 233 ft	
74 m 243 ft	
77 m 253 ft	
80 m 262 ft	
83 m 272 ft	
86 m 282 ft	

Tab. 379: Configuration of main boom 2821 with fixed jib 1507 attached

S - Installation position rope guide (type A)

X1 - Installation position mid-point suspension 1

X2 - Installation position mid-point suspension 2

Y - Installation position of spacer bracket with jib backstay straps (CF) on fixed jib 1507

7.13.3 Lengths of mid-point suspensions

Main boom length	Backstay pendant 1 (X1)	Backstay pendant 2 (X2)
	Rope length	Rope length
77 m 253 ft ^{A)}	3.7 m 12.14 ft = 2.1 m (6.89 ft) + 1.6 m (5.25 ft)	
80 m 262 ft ^{B)}	4.2 m 13.78 ft = 1.6 m (5.25 ft) + 2.6 m (8.53 ft)	

PROJECT:

LR 1300SX 164' ST + 1507

LOCATION: -----

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DRAWING NOTES:
Boom Configuration

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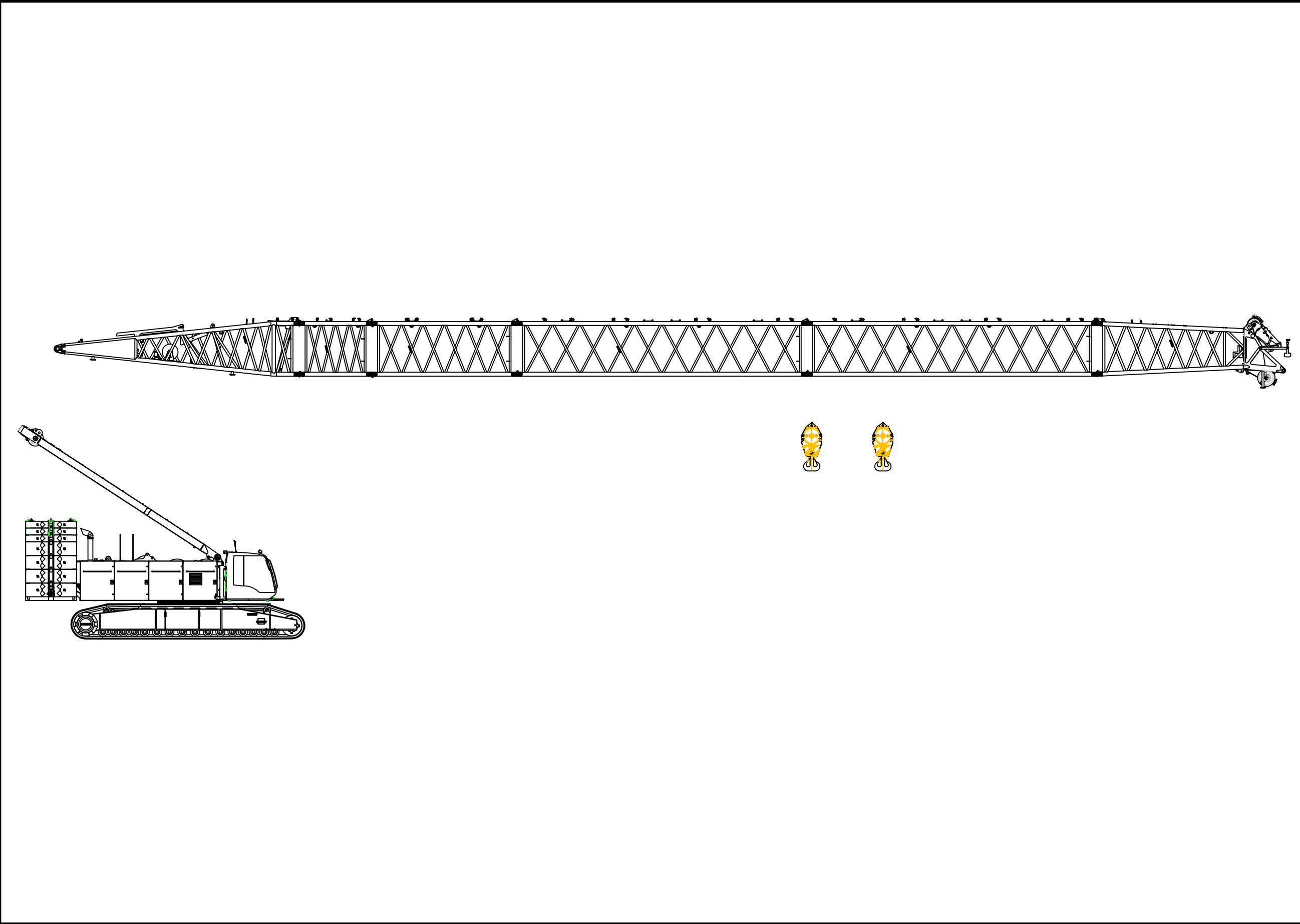
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SHEET: 002 OF 010





PROJECT:
LR 1300SX 164' ST + 1507

LOCATION:-----

BUCKNER CONTACT:Dan Ives, PE
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LIFT PLAN BY:Dan Ives, PE
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DRAWING NOTES:
Build Sheet

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002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 003 OF 010

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A) Machine with CF pendant straps with boom configuration main boom 2821 + luffing jib 1916: Do not install any mid-point suspensions with main boom lengths 77 m (253 ft) and 80 m (262 ft).

7.5.3 Overview of main boom 2821 steel pendant straps

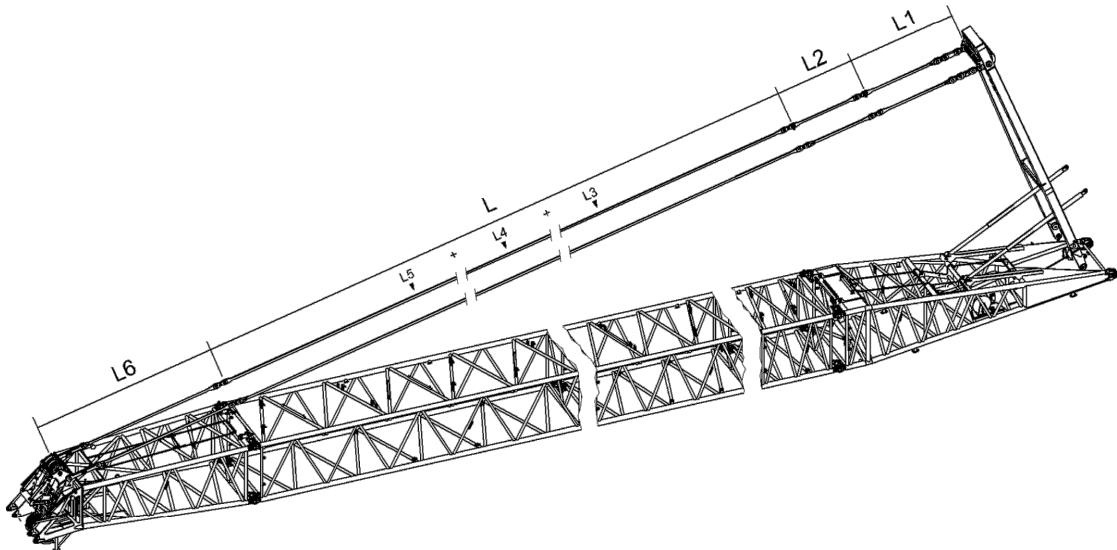


Fig. 2636: Overview of main boom 2821 steel pendant straps

Pendant straps A-frame1 to main boom head 2821

Name		Value
L1	A-frame1 equalizer (For more information see: A-frame1 equalizer, page 65)	3730 mm 12' 3" ft-in
L2	Main boom base section equalizer (For more information see: Equalizer of main boom base section 2821.30, page 165)	2670 mm 8' 9" ft-in
L	Main boom pendant straps consisting of:	
	L3 Main boom pendant strap 3 m (10 ft) (For more information see: Main boom pendant strap 3 m (10 ft), page 166)	Total L3 +
	L4 Main boom pendant strap 6 m (20 ft) (For more information see: Main boom pendant strap 6 m (20 ft), page 168)	Total L4 +
	L5 Main boom pendant strap 12 m (40 ft) (For more information see: Main boom pendant strap 12 m (40 ft), page 170)	Total L5

Name		Value
L6	Main boom pendant strap on main boom head 2821 (For more information see: Main boom pendant strap on main boom head 2821.24, page 171)	6300 mm 20' 8" ft-in

Tab. 390: Pendant straps A-frame1 to main boom head 2821

Configuration of main boom pendant straps (L):

Required number of main boom pendant straps 3 m (10 ft) (L3) corresponds to number of main boom sections 3 m (10 ft).

Required number of main boom pendant straps 6 m (20 ft) (L4) corresponds to number of main boom sections 6 m (20 ft).

Required number of main boom pendant straps 12 m (40 ft) (L5) corresponds to number of main boom sections 12 m (40 ft).



Note

► For the admissible number of main boom sections 3 m (10 ft), 6 m (20 ft), 12 m (40 ft), refer to the following table: (For more information see: 7.5.1 Configuration of main boom, page 1056)

7.5.4 Overview of main boom 2821 CF pendant straps

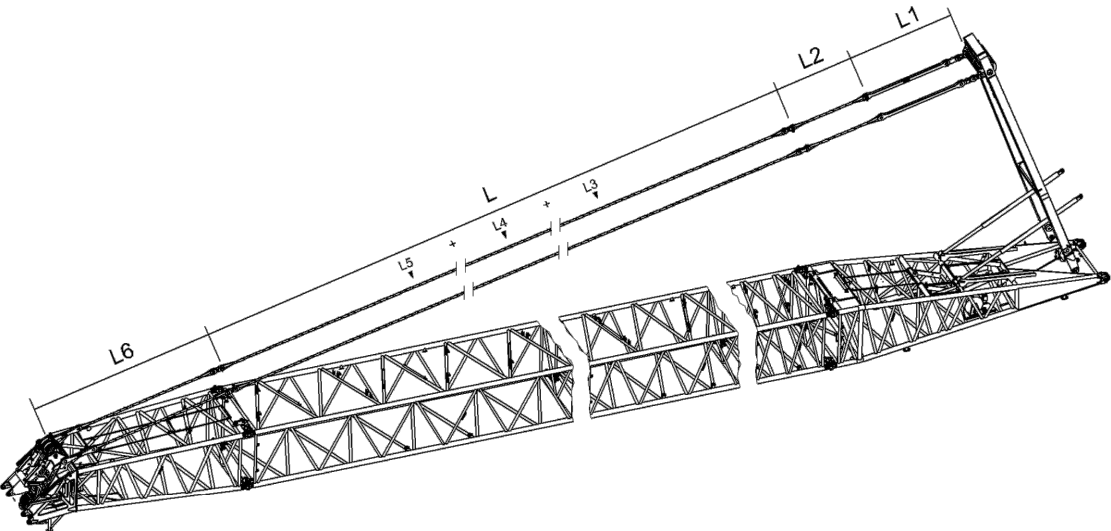


Fig. 2637: Overview of main boom 2821 CF pendant straps

Pendant straps A-frame1 to main boom head 2821

Name		Value
L1	A-frame1 equalizer (For more information see: A-frame1 equalizer, page 66)	3700 mm 12' 2" ft-in

PROJECT:

LR 1300SX 164' ST + 1507

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BUCKNER CONTACT: Dan Ives, PE
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DRAWING NOTES:
Main Boom Pendants

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003	----	----
004	----	----
005	----	----
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SHEET: 004 OF 010



7.13.6 Overview of pendant straps on fixed jib 1507

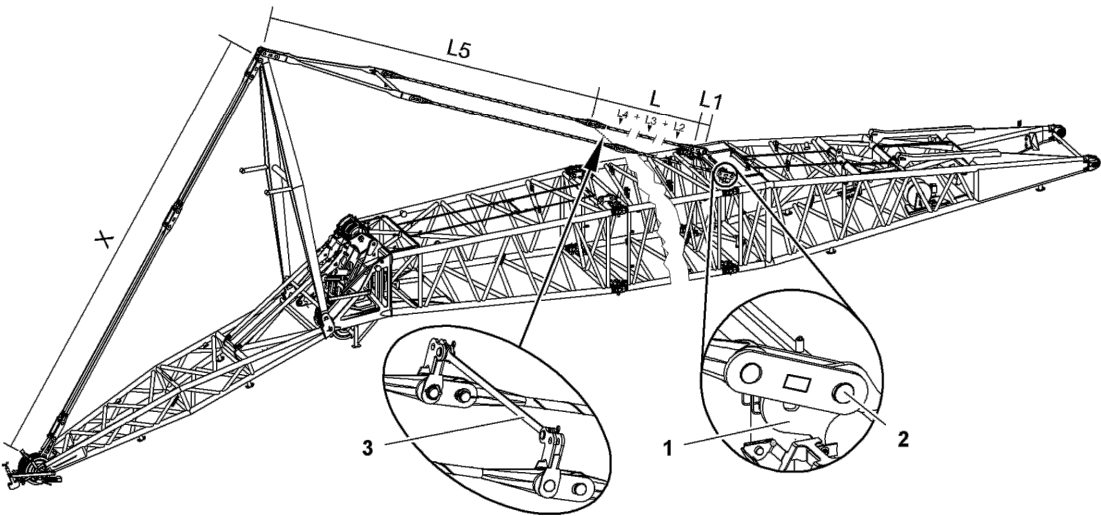


Fig. 4212: Overview of pendant straps on fixed jib 1507

- 1 Main boom base section
- 2 Pin connection point for jib backstay straps
- 3 Spacer bracket with connecting elements

Jib backstay straps A-frame2 to main boom base section 2821

Name			Value
L1	Connecting link		350 mm 1.15 ft
L	Jib backstay straps consisting of:		
	L2	Jib backstay strap 3 m (10 ft)	Total L2 +
	L3	Jib backstay strap 6 m (20 ft)	Total L3 +
	L4	Jib backstay strap 12 m (40 ft)	Total L4
L5	A-frame2 equalizer (jib backstay strap) (For more information see: A-frame2 base of pendant straps (jib backstay strap), page 195.)		9980 mm 32.74 ft

Tab. 383: Jib backstay straps A-frame2 to main boom base section 2821

Configuration of jib backstay straps (L):

Required number of jib backstay straps 3 m (10 ft) (L2) corresponds to number of main boom sections 3 m (10 ft) .

Required number of jib backstay straps 6 m (20 ft) (L3) corresponds to number of main boom sections 6 m (20 ft) .

Required number of jib backstay straps 12 m (40 ft) (L4) corresponds to number of main boom sections 12 m (40 ft) .



Note

- For the admissible number of main boom sections 3 m (10 ft) , 6 m (20 ft) , 12 m (40 ft) , refer to the load chart.

The jib backstay straps (L) may consist of generation A and generation B jib backstay straps (For more information see: 1.14.2 Steel pendant straps on fixed jib 1507, page 195.) . Mixing is only admissible if the number of generation B jib backstay straps only differs by at most 1 in the left and the right strand of the backstay straps.



DANGER

Inadmissible mixing of generation A and generation B jib backstay straps! Structural breakdown.

- Ensure that the number of generation B jib backstay straps differs by at most 1 in the left and the right strand of the backstay straps.

Pendant straps A-frame2 to jib head 1507

Name		Value
X	Jib pendant strap (A-frame2 to jib head 1507) (For more information see: Jib pendant strap (A-frame2 to jib head 1507), page 197.)	11615 mm 38.11 ft

Tab. 384: Pendant straps A-frame2 to jib head 1507

PROJECT:

LR 1300SX 164' ST + 1507

LOCATION: -----

BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavylift.com

LIFT PLAN BY: Dan Ives, PE
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DRAWING NOTES:
1507 Jib Pendants

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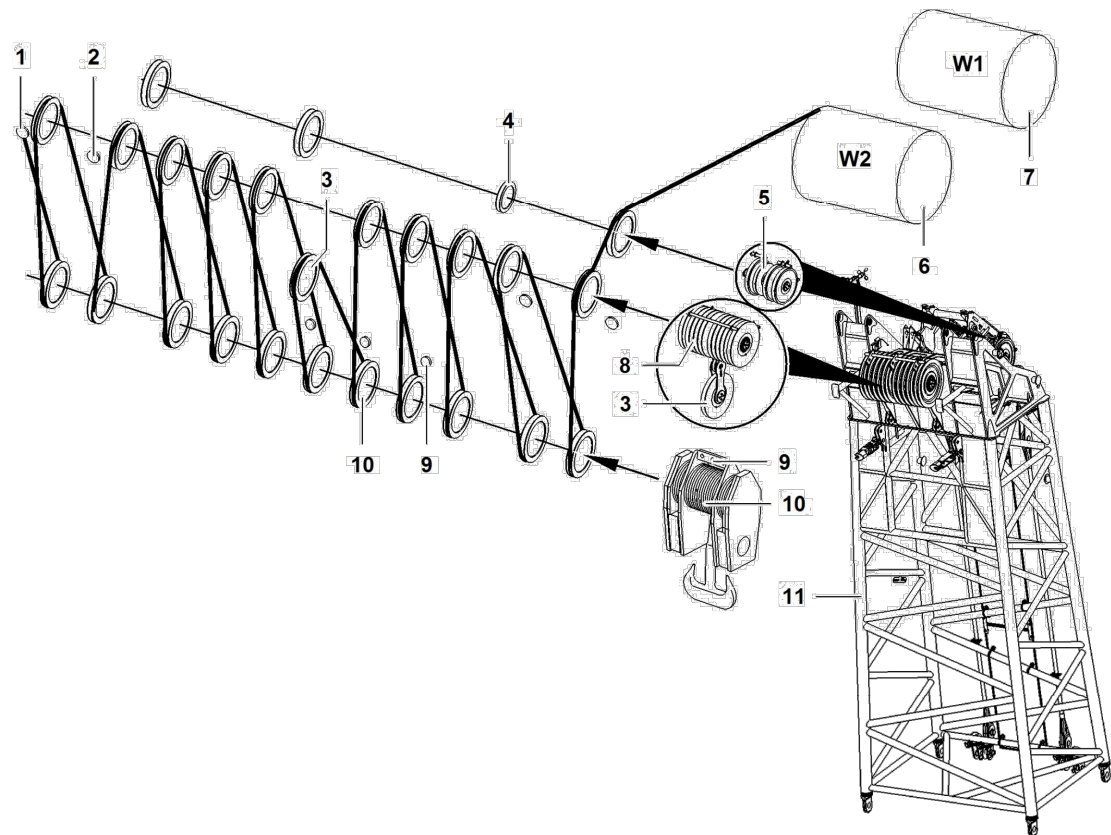


Fig. 4226: Reeving plans for one rope across main boom head 2821

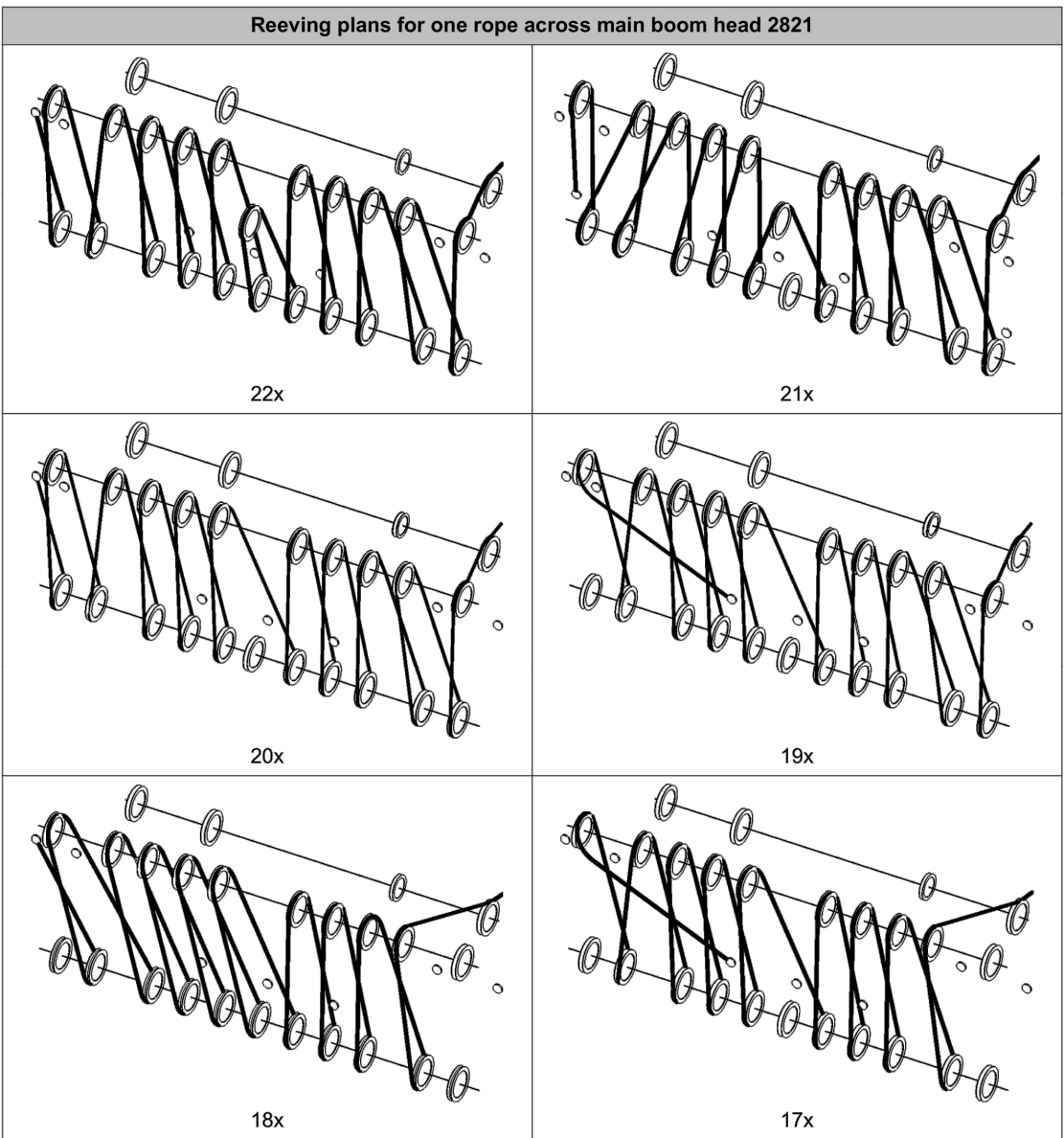
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| 1 Outer rope fixing point (2x) of main boom head | 5 Gantry pulley (3x) of main boom head | 9 Rope fixing points of pulley block |
| 2 Inner rope fixing point (2x) of main boom head | 6 Winch2 | 10 Rope pulley set of pulley block |
| 3 11th rope pulley of main boom head | 7 Winch1 | 11 Main boom head |
| 4 Rope pulley for rope of luffing jib winch | 8 Rope pulley (10x) of main boom head | |



DANGER

Inadmissible number of reevings!
Structural breakdown, machine toppling over.

► Select correct number of reevings as indicated in load chart.



PROJECT:
LR 1300SX 164' ST + 1507
LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE
DanI@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
DanI@BucknerCompanies.com

DRAWING NOTES:
Main Boom Reeving 1

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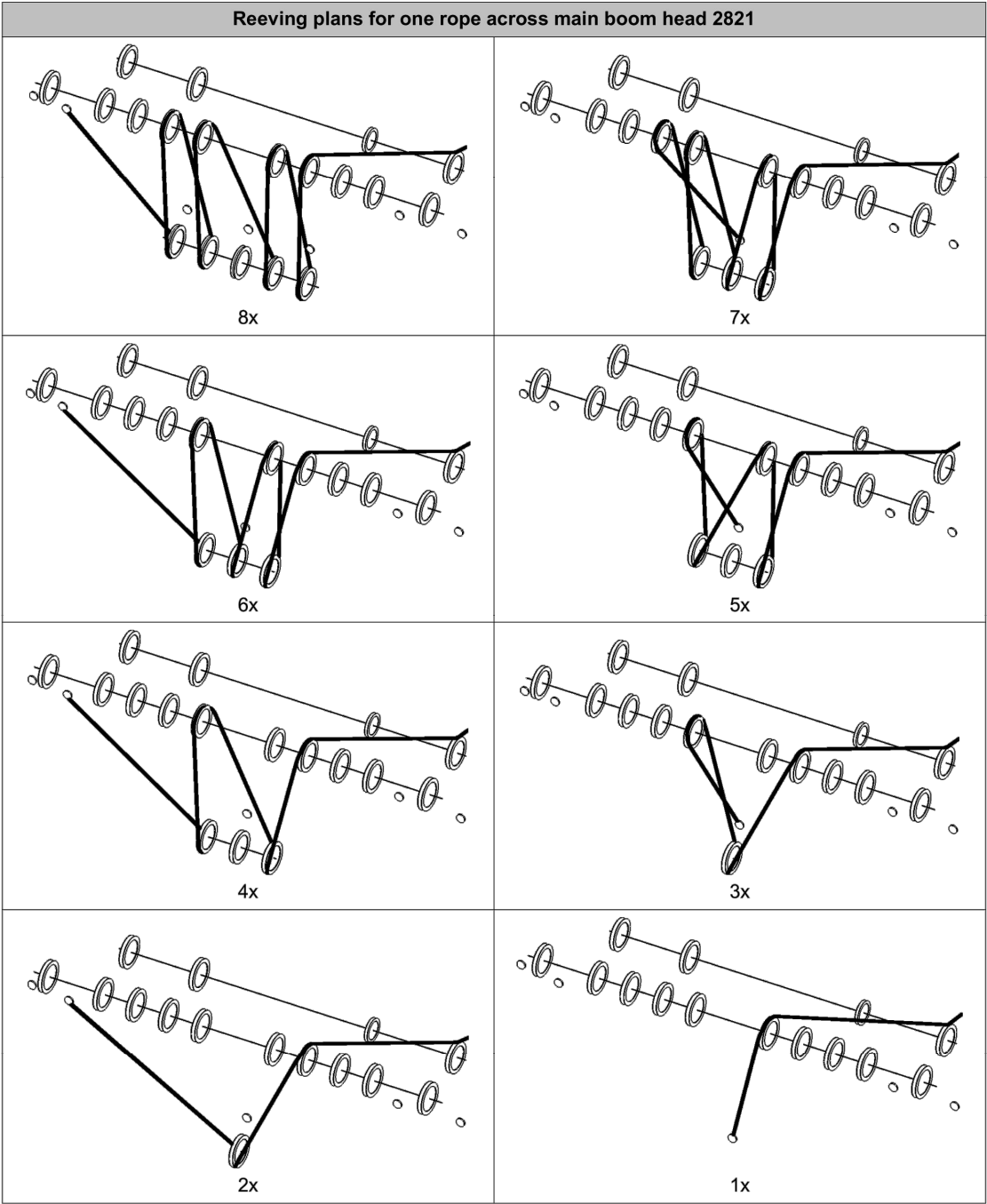
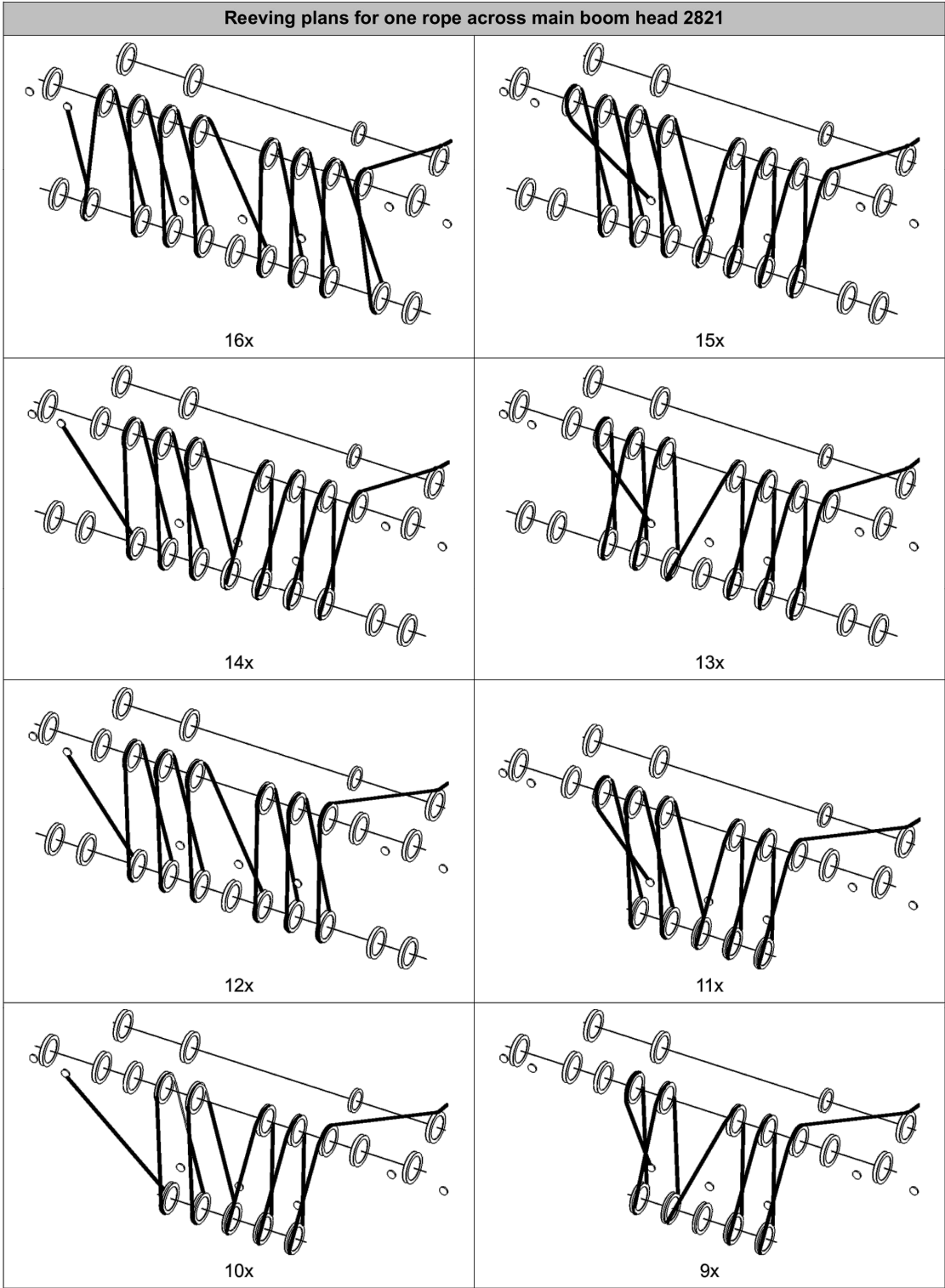
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006	----	----
007	----	----
008	----	----
009	----	----
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SHEET: 006 OF 010

BUCKNER
HEAVYLIFT CRANES



Tab. 387: Reeving plans for one rope across main boom head 2821

PROJECT:
LR 1300SX 164' ST + 1507
LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Main Boom Reeving 2

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
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005	----	----
006	----	----
007	----	----
008	----	----
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BUCKNER
HEAVYLIFT CRANES

7.13.7 Reeving plans for one rope across jib head 1507

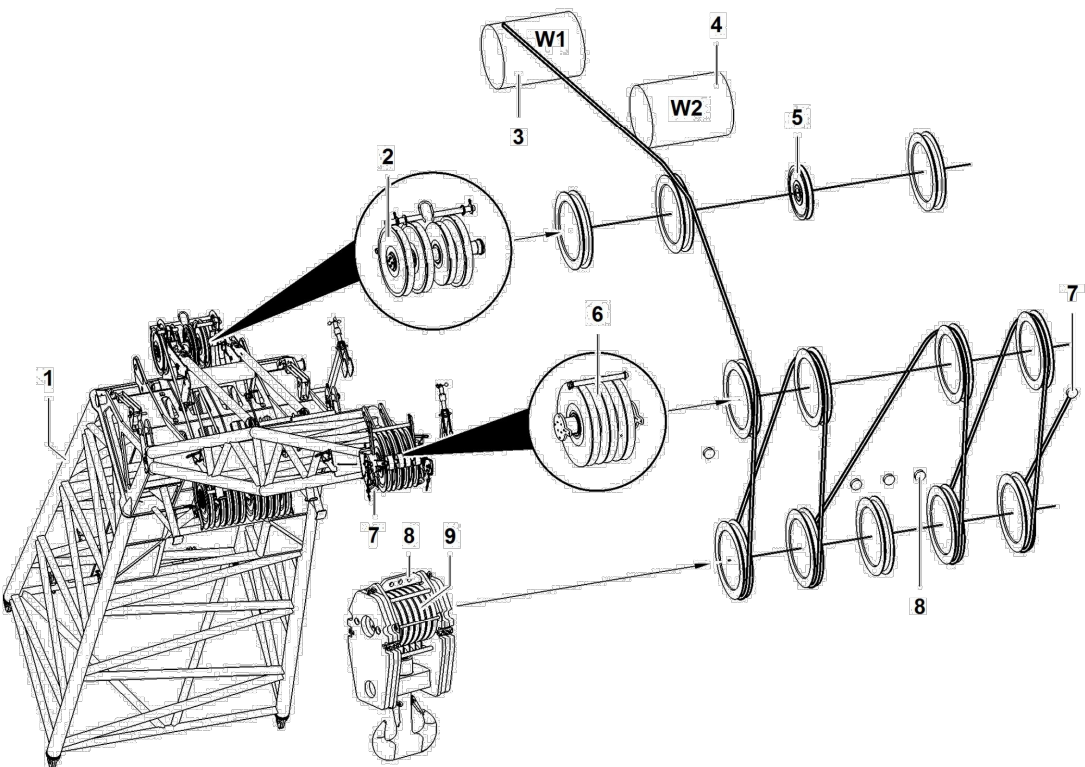


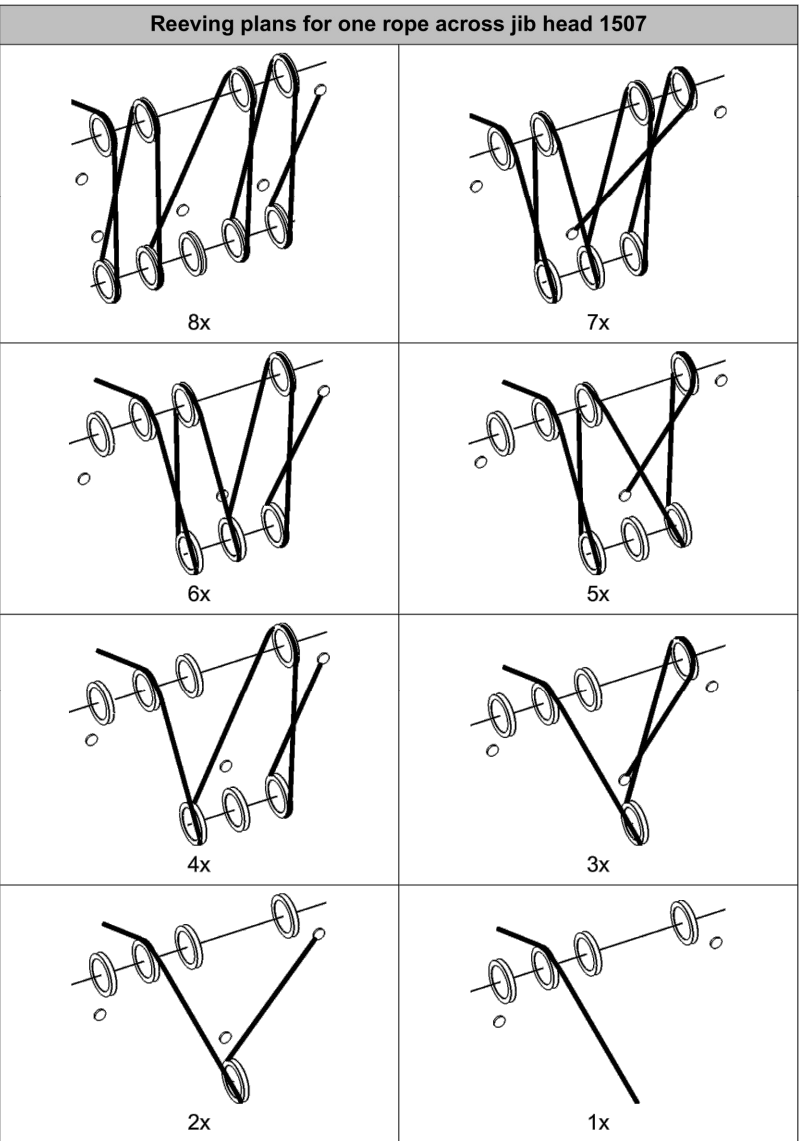
Fig. 4213: Reeving plans for one rope across jib head 1507

- | | | |
|--|---|--------------------------------------|
| 1 Main boom head | 4 Winch2 | 7 Rope fixing point (2x) of jib head |
| 2 Gantry pulley (3x) of main boom head | 5 Rope pulley for rope of luffing jib winch | 8 Rope fixing points of pulley block |
| 3 Winch1 | 6 Rope pulley (4x) of jib head | 9 Rope pulley set of pulley block |



DANGER
Inadmissible number of reevings!
Structural breakdown, machine toppling over.

► Select correct number of reevings as indicated in load chart.



Tab. 385: Reeving plans for one rope across jib head 1507

PROJECT:
LR 1300SX 164' ST + 1507
LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerHeavylift.com

DRAWING NOTES:
1507 Jib Reeving

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SHEET: 008 OF 010

BUCKNER
HEAVYLIFT CRANES



Boom configuration:
Ident. no.:

Main boom + fixed jib
/10539958/141906

Main boom 2821-1 + Jib 1507-3 Jib head 1507-1 Offset 28 Rear counterweight 273.4 [1000 lbs] + Carbody counterweight 125.7 [1000 lbs]	
2 - Wide track	
Main boom length [ft]	Jib length [ft]
	28
164	ABC
174	ABC
184	ABC
194	ABC
203	ABC
213	ABC
223	ABC
233	ABC
243	ABC
253	ABC
262	AB
272	AB
Load hook/pulley block always on ground	

LR1300SX

Erectability charts



Boom configuration:
Ident. no.:

Main boom + fixed jib
/10539958/141906

Main boom 2821-1 + Jib 1507-3 Jib head 1507-1 Offset 28 Rear counterweight 273.4 [1000 lbs] + Carbody counterweight 125.7 [1000 lbs]	
3 - Blocked Crawlers	
Main boom length [ft]	Jib length [ft]
	28
164	ABC
174	ABC
184	ABC
194	ABC
203	ABC
213	ABC
223	ABC
233	ABC
243	ABC
253	ABC
262	AB
272	AB
Load hook/pulley block always on ground	

LR1300SX

Erectability charts

PROJECT:
LR 1300SX 164' ST + 1507

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BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerCompanies.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerCompanies.com

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005	----	----
006	----	----
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009	----	----
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SHEET: 009 OF 010



