BUCKNER HEAVYLIFT CRANES

Contents

PROJECT:
LR11000 SL11DBV 90m

LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com

DRAWING NOTES:
Title Page

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 – SL11DBV 90m (295').dwg
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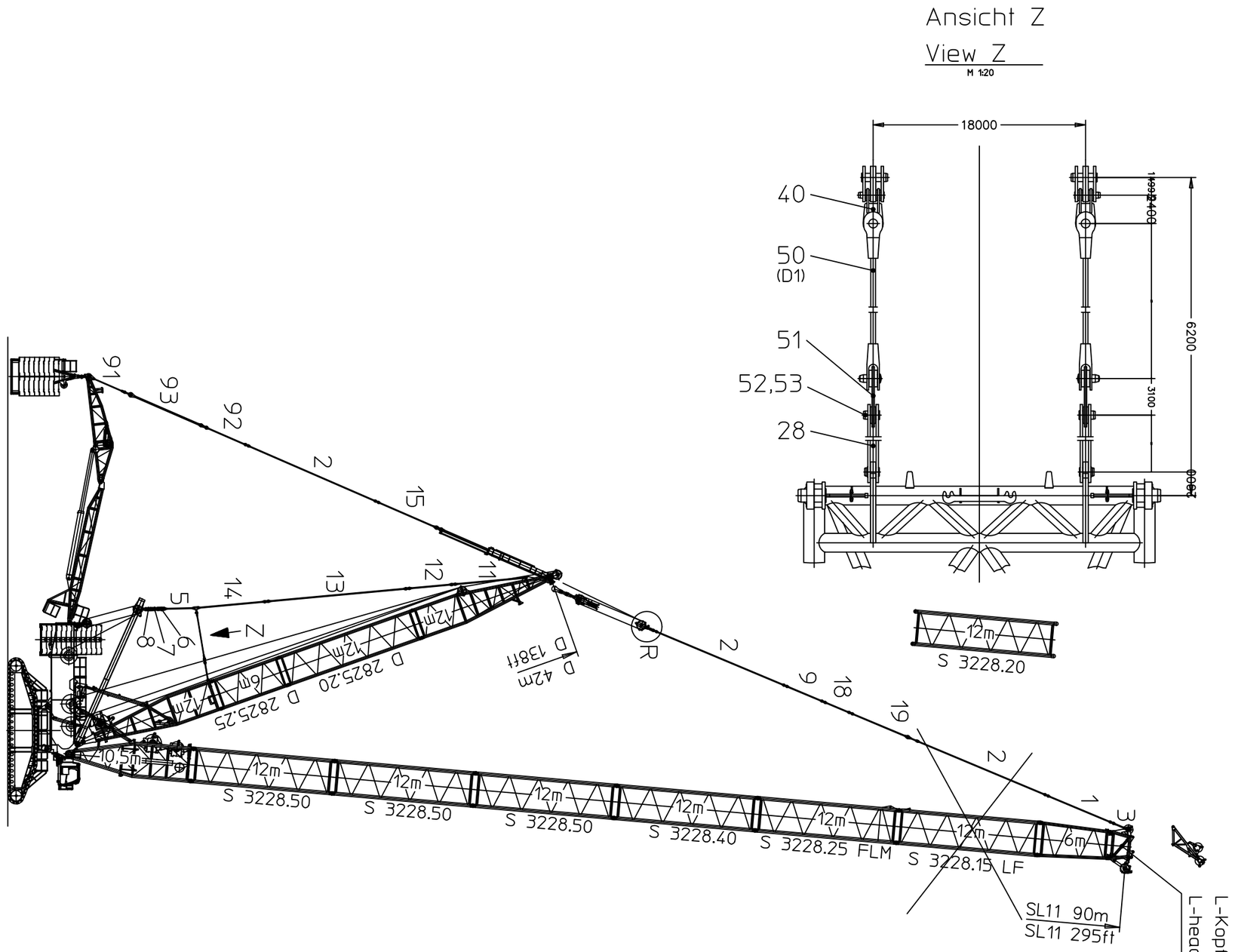
BUCKNER HEAVYLIFT CRANES



Ansicht Z
View Z
M 1:20

PROJECT:
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LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com

DRAWING NOTES:
Build Sheet

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BUCKNER HEAVYLIFT CRANES

Pos.	Item	Description		Page
1	967746908	ROD CPL.	6M	
2	967743808	ROD CPL.	12 M	
3	967913408	ROD CPL.	1.35 M	
5	967846208	PULL ROD	3.3M	
6	917368808	MEASURING PLATE	3000 KN	34
7	967846608	PULL TAB WITH SIGN	0.4M	
8	967845508	DRAW SHACKLE	0.7M	
9	967897608	PULL ROD	3.5M	
11	968026108	DRAWBAR PRE-ASS	6.0M	
12	968026208	PULL ROD	3.9M	
13	967704008	ROD CPL.	12 M	
14	967733608	ROD CPL.	6 M	
15	968026008	PULL ROD	5.765M	
16	968242208	PULL ROD	6.050 M	
18	968190108	PULL ROD	2.5M	
19	968190208	PULL ROD	6.005M	
28	968246608	PULL ROD		
40	968825908	CROSS CONNECTING LINK WELDED		
42	97046984	ADDITIONAL GUY ROPE	40MM 5M	
50	97047687	ADDITIONAL GUY ROPE	40MM 4M	
51	968766908	CONNECTING LINK WELDED		
52	97047686	PIN	75.0X137	
53	10180878	SAFETY PLUG W HINGE-LID	17X100X15,5X80	
54	968767108	CROSS SHACKLE CPL.	0.35M	
55	968767208	CROSS SHACKLE CPL.		
56	97047307	ADDITIONAL GUY ROPE	40MM 9M	
71	969308308	BRACKET CPL.	0.3M	
91	96036754	ROD CPL.		
92	96044552	PULL ROD	4.4M	
93	96043856	PULL ROD	7.05 M	
1000	98049982	RODS/ PULL RODS LR 11000	SL11DB/BV	

PROJECT:
LR11000 SL11DBV 90m

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

DRAWING NOTES:
Rod Plan 1 – Main Boom

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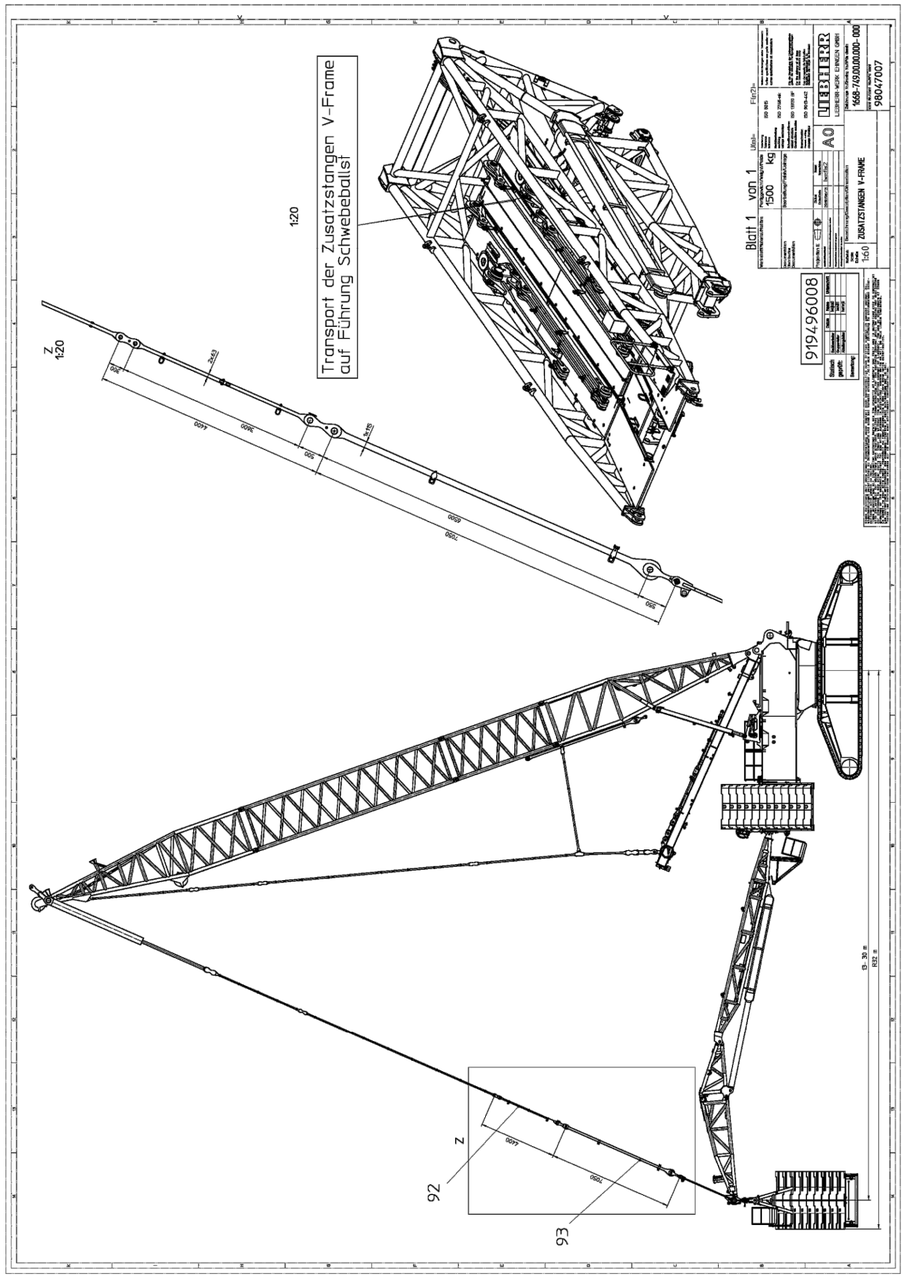
BUCKNER HEAVYLIFT CRANES



Pos.	Item	Description	Page
92	96044552	PULL ROD	4.4M
93	96043856	PULL ROD	7.05 M
1000	98047007	ADD. BARS V-FRAME	

PROJECT:
LR11000 SL11DBV 90m

LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com

DRAWING NOTES:
Rod Plan 2 – V-frame

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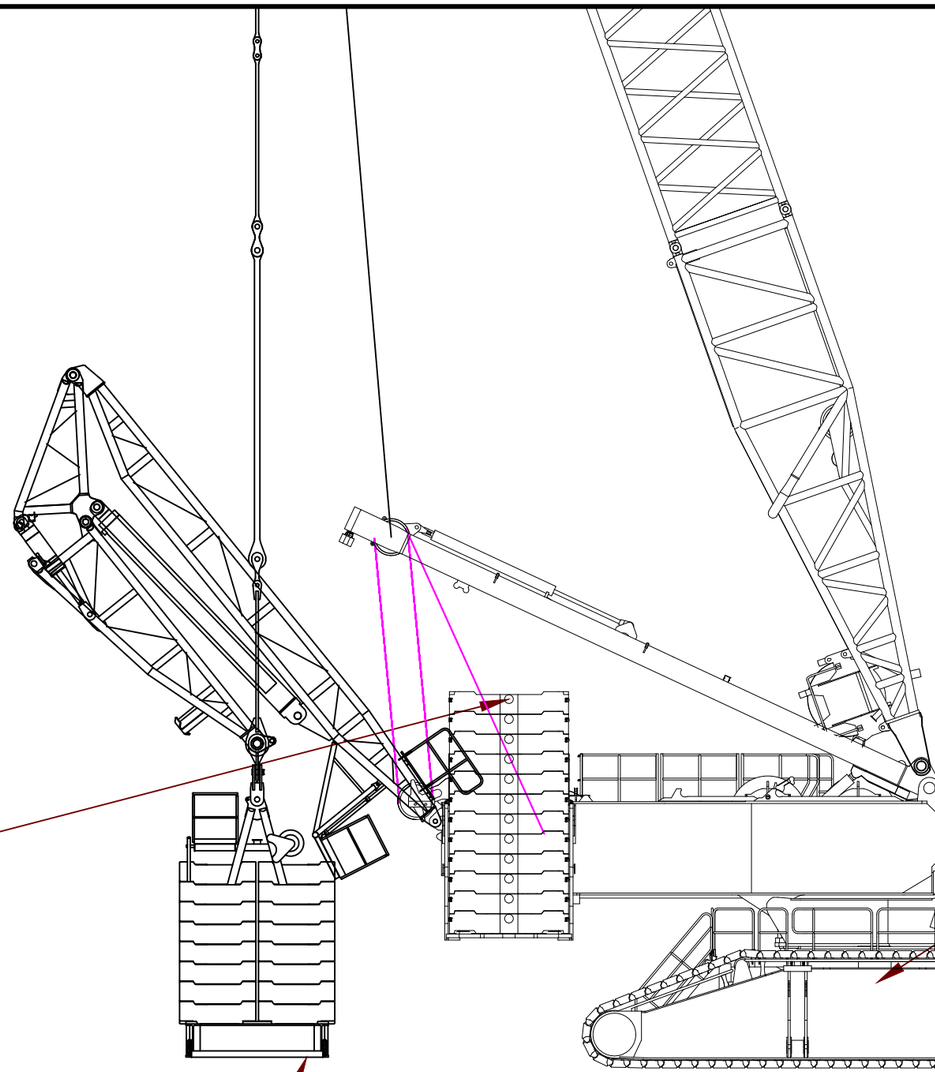
BUCKNER HEAVYLIFT CRANES



Superstructure
250 tonnes
24 slabs
10 ton each

Carbody
130 tonnes
12 slabs
10 ton each

Vario Tray
0 tonnes
0 slabs
(Customer Provided)

PROJECT:
LR11000 SL11DBV 90m

LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com

DRAWING NOTES:
Counterweight Arrangement

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BUCKNER HEAVYLIFT CRANES

1 Crane operation with 2 hoist ropes F = 230 kN and d = 1 1/4” (32 mm) (EST1)

1.1 Auxiliary weights

WARNING
Incorrect assembly and disassembly of the auxiliary weights!
Death, severe bodily injuries, property damage.
► Assemble / disassemble the auxiliary weights according to the operating instructions, see the Crane operating instructions, chapter 5.19.

The net weight of a hook block can be increased using auxiliary weights. The net weight of the auxiliary weights is specified to the side on the respective auxiliary weight.

The following auxiliary weights are possible:

Auxiliary weights		
Net weight	1.0 t	2205 lb

Possible auxiliary weights

1.2 Double hook block 320 / 160 DM (SWL 320 t (705600 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
315.4 t	695300 lb	2 x 3	2 x 7	4.7 t	10360 lb

Double hook block 320 / 160 DM

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	6.7 t	14770 lb
4 auxiliary weights	8.7 t	19180 lb
6 auxiliary weights	10.7 t	23590 lb
8 auxiliary weights	12.7 t [1)]	28000 lb [1)]

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.3 Double hook block 650 / 325 DMZ (SWL 650 t (1433250 lb))

There are two versions of this double hook block. Both versions differ in shape and net weight.

1.3.1 Version 1

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
649.6 t	1432200 lb	2 x 7	2 x 15	14.0 t	30870 lb

Double hook block 650 / 325 DMZ

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	16.0 t	35280 lb
4 auxiliary weights	18.0 t	39690 lb
6 auxiliary weights	20.0 t	44100 lb
8 auxiliary weights	22.0 t [1)]	48510 lb [1)]

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.3.2 Version 2

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
649.6 t	1432200 lb	2 x 7	2 x 15	12.7 t	28000 lb

Double hook block 650 / 325 DMZ

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	14.7 t	32410 lb
4 auxiliary weights	16.7 t	36820 lb
6 auxiliary weights	18.7 t	41230 lb
8 auxiliary weights	20.7 t [1)]	45640 lb [1)]

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.4 Double hook block 800 / 400 DMZ (SWL 800 t (1764000 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
800.0 t	1764000 lb	2 x 9	2 x 19	16.0 t	35280 lb

Double hook block 800 / 400 DM

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	18.0 t	39690 lb
4 auxiliary weights	20.0 t	44100 lb
6 auxiliary weights	22.0 t	48510 lb
8 auxiliary weights	24.0 t	52920 lb
10 auxiliary weights	26.0 t [1)]	57330 lb [1)]

Auxiliary weights

1) Maximum permissible net weight of the hook block.

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:
Hook Blocks 1

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SHEET: 006 OF 014

BUCKNER HEAVYLIFT CRANES

1 Crane operation with 1 hoist rope F = 230 kN and d = 1 1/4” (32 mm) (EST1)

1.1 Auxiliary weights

WARNING
Incorrect assembly and disassembly of the auxiliary weights!
Death, severe bodily injuries, property damage.
► Assemble / disassemble the auxiliary weights according to the operating instructions, see the Crane operating instructions, chapter 5.19.

The net weight of a hook block can be increased using auxiliary weights. The net weight of the auxiliary weights is specified to the side on the respective auxiliary weight.

The following auxiliary weights are possible:

Auxiliary weights		
Net weight	1.0 t	2205 lb

Possible auxiliary weights

1.2 Load hook 25 E (SWL 25 t (55130 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
23.2 t	51200 lb	0	1	1.5 t	3310 lb

Load hook 25 E

1.3 Hook block 80 DM (SWL 80 t (176400 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
68.9 t	152000 lb	1	3	2.5 t	5510 lb

Hook block 80 DM

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	4.5 t [1)]	9920 lb [1)]

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.4 Hook block 160 DM (SWL 160 t (352800 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
157.7 t	347600 lb	3	7	2.5 t	5510 lb

Hook block 160 DM

LWE//423501-18-02/en

LIEBHERR

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----

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

LIFT PLAN BY: Dan Ives, PE
Dani@BucknerHeavylift.com

DRAWING NOTES:
Hook Blocks 2

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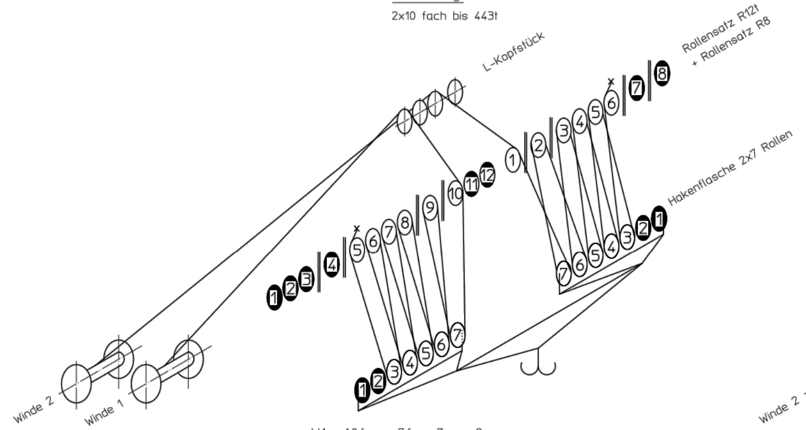
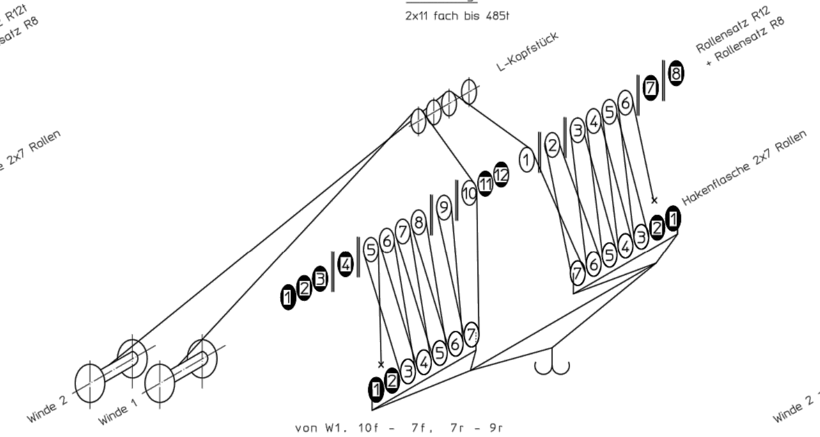
BUCKNER HEAVYLIFT CRANES

Einscherung:
2x10 fach bis 443t



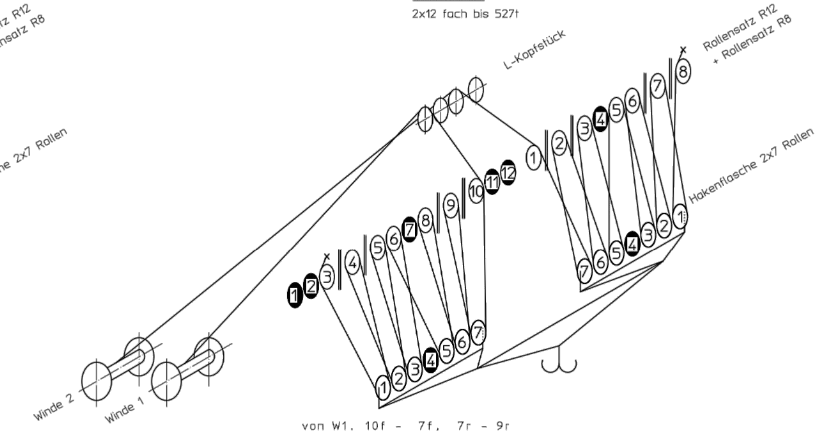
von W1. 10f - 7f, 7r - 9r
9f - 6f, 6r - 8r
8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 3f, 3r - 5r, F(R12c)
von W2. 1f - 7f, 7r - 2r
2f - 6f, 6r - 3r
3f - 5f, 5r - 4r
4f - 4f, 4r - 5r
5f - 3f, 3r - 6r, F(R8c)

Einscherung:
2x11 fach bis 485t



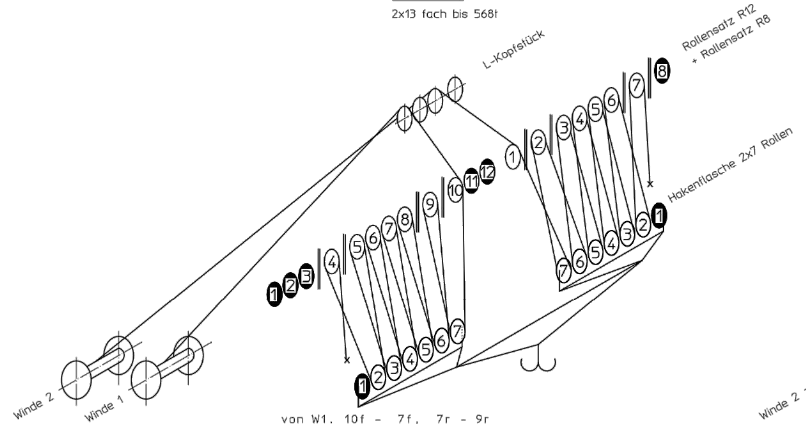
von W1. 10f - 7f, 7r - 9r
9f - 6f, 6r - 8r
8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 3f, 3r - 5r
5f - F(h2x7b)
von W2. 1f - 7f, 7r - 2r
2f - 6f, 6r - 3r
3f - 5f, 5r - 4r
4f - 4f, 4r - 5r
5f - 3f, 3r - 6r
6f - F(h2x7b)

Einscherung:
2x12 fach bis 527t



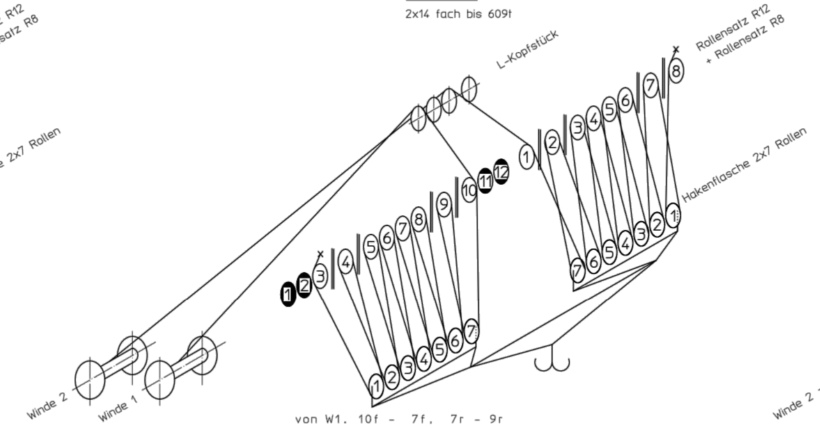
von W1. 10f - 7f, 7r - 9r
9f - 6f, 6r - 8r
8f - 5f, 5r - 7r
6f - 3f, 3r - 5r
5f - 2f, 2r - 4r
4f - 1f, 1r - 3r, F(R12b)
von W2. 1f - 7f, 7r - 2r
2f - 6f, 6r - 3r
3f - 5f, 5r - 4r
5f - 3f, 3r - 6r
6f - 2f, 2r - 7r
7f - 1f, 1r - 8r, F(R8b)

Einscherung:
2x13 fach bis 568t



von W1. 10f - 7f, 7r - 9r
9f - 6f, 6r - 8r
8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 3f, 3r - 5r
5f - 2f, 2r - 4r
4f - F(h2x7a)
von W2. 1f - 7f, 7r - 2r
2f - 6f, 6r - 3r
3f - 5f, 5r - 4r
4f - 4f, 4r - 5r
5f - 3f, 3r - 6r
6f - 2f, 2r - 7r
7f - F(h2x7a)

Einscherung:
2x14 fach bis 609t



von W1. 10f - 7f, 7r - 9r
9f - 6f, 6r - 8r
8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 3f, 3r - 5r
5f - 2f, 2r - 4r
4f - 1f, 1r - 3r, F(R12b)
von W2. 1f - 7f, 7r - 2r
2f - 6f, 6r - 3r
3f - 5f, 5r - 4r
4f - 4f, 4r - 5r
5f - 3f, 3r - 6r
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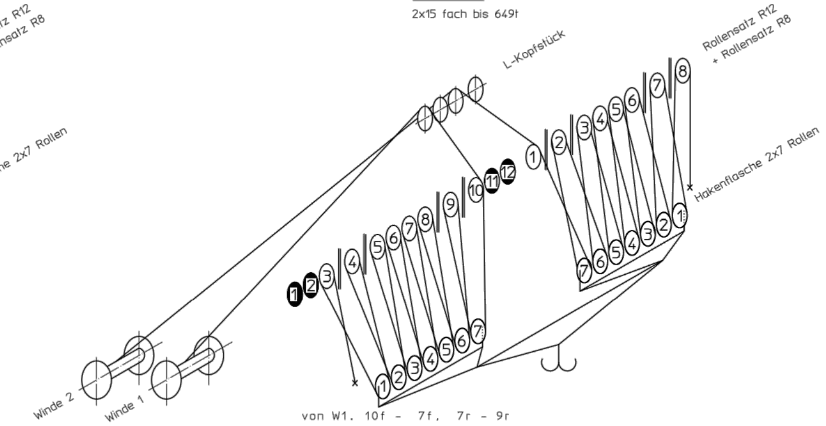
Einscherung:
2x15 fach bis 649t



von W1. 10f - 7f, 7r - 9r
9f - 6f, 6r - 8r
8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 3f, 3r - 5r
5f - 2f, 2r - 4r
4f - 1f, 1r - 3r
3f - F(h2x7a)
von W2. 1f - 7f, 7r - 2r
2f - 6f, 6r - 3r
3f - 5f, 5r - 4r
4f - 4f, 4r - 5r
5f - 3f, 3r - 6r
6f - 2f, 2r - 7r
7f - 1f, 1r - 8r
8f - F(h2x7a)

F = Fixpoint = Festpunkt
f = front = Vorne
r = rear = hinten

(X) = freie Rolle

Einscherung L-Kopfstück
parallel eingeschert
Rollensatz R12 und R8
mit Hakenflasche 2x7 Rollen

Blatt 06 von 11

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

A0

1:100

EINSCHERPLAN
L-KOPF PARALLEL

1668-722.00.00.008-008

9800 7816

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----

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

DRAWING NOTES:
Reeving Plan

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BUCKNER
HEAVYLIFT CRANES

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 1 of 7

On crawlers 9.6m x 9.2m x 2.0m
Ground slope: maximum 0.3°
Without mechanical auxiliary support

System: S 3228.50/40/25/20/15
D 2825.25/20

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 13m		Permissible weight [t] of the hook block on the main boom									
		For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 13m									
		0	50	100	150	200	250	300	350	400	450
Main boom length [m]	66	32	•	•	•	•	•	•	•	•	•
	72	22	34	•	•	•	•	•	•	•	•
	78	11	22	33	•	•	•	•	•	•	•
	84	-	13	23	33	•	•	•	•	•	•
	90	-	5.2	14	23	33	•	•	•	•	•
	96	-	-	6.1	14	23	32	•	•	•	•
	102	-	-	-	7.8	16	24	32	•	•	•
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	114	-	-	-	-	-	7.6	14	22	29	35
	120	-	-	-	-	-	-	5.8	12	19	25
	126	-	-	-	-	-	-	-	5.2	11	17
	132	-	-	-	-	-	-	-	-	5.4	10
	138	-	-	-	-	-	-	-	-	-	-
	144	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-
	156	-	-	-	-	-	-	-	-	-	-
	162	-	-	-	-	-	-	-	-	-	-

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 2 of 7

On crawlers 9.6m x 9.2m x 2.0m
Ground slope: maximum 0.3°
Without mechanical auxiliary support

System: S 3228.50/40/25/20/15
D 2825.25/20

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 15m		Permissible weight [t] of the hook block on the main boom									
		For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 16m									
		0	50	100	150	200	250	300	350	400	450
Main boom length [m]	66	34	•	•	•	•	•	•	•	•	•
	72	24	37	•	•	•	•	•	•	•	•
	78	13	25	37	•	•	•	•	•	•	•
	84	4.7	15	27	38	•	•	•	•	•	•
	90	-	7.7	18	28	38	•	•	•	•	•
	96	-	-	9.4	19	28	38	•	•	•	•
	102	-	-	-	11	20	30	39	•	•	•
	108	-	-	-	3.7	12	20	29	38	•	•
	114	-	-	-	-	4.7	12	20	29	37	•
	120	-	-	-	-	-	3.8	11	19	26	33
	126	-	-	-	-	-	-	4	11	18	24
	132	-	-	-	-	-	-	-	5.1	12	17
	138	-	-	-	-	-	-	-	-	-	8.4
	144	-	-	-	-	-	-	-	-	-	2.6
	150	-	-	-	-	-	-	-	-	-	-
	156	-	-	-	-	-	-	-	-	-	-
	162	-	-	-	-	-	-	-	-	-	-

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:
Erection and Takedown 1

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BUCKNER HEAVYLIFT CRANES

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 3 of 7

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.50/40/25/20/15
Ground slope: maximum 0.3° D 2825.25/20
Without mechanical auxiliary support

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 16m		Permissible weight [t] of the hook block on the main boom									
		For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 16m									
		0	50	100	150	200	250	300	350	400	450
Main boom length [m]	66	35	•	•	•	•	•	•	•	•	•
	72	24	38	•	•	•	•	•	•	•	•
	78	14	26	39	•	•	•	•	•	•	•
	84	5.5	17	29	•	•	•	•	•	•	•
	90	-	8.9	19	30	•	•	•	•	•	•
	96	-	-	11	21	31	•	•	•	•	•
	102	-	-	4.2	13	23	32	•	•	•	•
	108	-	-	-	5.6	14	23	32	•	•	•
	114	-	-	-	-	6.9	15	24	32	•	•
	120	-	-	-	-	-	6.3	14	22	30	36
	126	-	-	-	-	-	-	6.7	14	22	28
	132	-	-	-	-	-	-	-	8	15	21
	138	-	-	-	-	-	-	-	-	6	11
	144	-	-	-	-	-	-	-	-	-	6.1
	150	-	-	-	-	-	-	-	-	-	-
	156	-	-	-	-	-	-	-	-	-	-
	162	-	-	-	-	-	-	-	-	-	-

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 4 of 7

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.50/40/25/20/15
Ground slope: maximum 0.3° D 2825.25/20
Without mechanical auxiliary support

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 18m		Permissible weight [t] of the hook block on the main boom									
		For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 18m									
		0	50	100	150	200	250	300	350	400	450
Main boom length [m]	66	35	•	•	•	•	•	•	•	•	•
	72	25	•	•	•	•	•	•	•	•	•
	78	14	28	•	•	•	•	•	•	•	•
	84	5.6	18	31	•	•	•	•	•	•	•
	90	-	10	22	33	•	•	•	•	•	•
	96	-	-	13	24	35	•	•	•	•	•
	102	-	-	6.2	16	27	37	•	•	•	•
	108	-	-	-	8.3	18	28	38	•	•	•
	114	-	-	-	-	10	19	29	38	•	•
	120	-	-	-	-	-	10	19	28	36	•
	126	-	-	-	-	-	-	11	19	28	35
	132	-	-	-	-	-	-	5	13	21	28
	138	-	-	-	-	-	-	-	3.8	11	18
	144	-	-	-	-	-	-	-	-	5.6	12
	150	-	-	-	-	-	-	-	-	-	-
	156	-	-	-	-	-	-	-	-	-	-
	162	-	-	-	-	-	-	-	-	-	-

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:
Erection and Takedown 2

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BUCKNER HEAVYLIFT CRANES

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 5 of 7

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.50/40/25/20/15
Ground slope: maximum 0.3° D 2825.25/20
Without mechanical auxiliary support

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 22m	Permissible weight [t] of the hook block on the main boom									
	For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 22m									
Main boom length [m]	0	50	100	150	200	250	300	350	400	450
66	36	•	•	•	•	•	•	•	•	•
72	25	•	•	•	•	•	•	•	•	•
78	14	31	•	•	•	•	•	•	•	•
84	5.9	21	36	•	•	•	•	•	•	•
90	-	12	26	•	•	•	•	•	•	•
96	-	4.1	17	30	•	•	•	•	•	•
102	-	-	10	22	34	•	•	•	•	•
108	-	-	-	13	25	37	•	•	•	•
114	-	-	-	6	17	28	39	•	•	•
120	-	-	-	-	7.8	18	28	39	•	•
126	-	-	-	-	-	10	20	30	•	•
132	-	-	-	-	-	4.2	13	23	32	•
138	-	-	-	-	-	-	4.4	13	22	30
144	-	-	-	-	-	-	-	7.4	16	24
150	-	-	-	-	-	-	-	-	5.5	13
156	-	-	-	-	-	-	-	-	-	7.4
162	-	-	-	-	-	-	-	-	-	-

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 6 of 7

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.50/40/25/20/15
Ground slope: maximum 0.3° D 2825.25/20
Without mechanical auxiliary support

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 26m	Permissible weight [t] of the hook block on the main boom									
	For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 26m									
Main boom length [m]	0	50	100	150	200	250	300	350	400	450
66	36	•	•	•	•	•	•	•	•	•
72	25	•	•	•	•	•	•	•	•	•
78	14	33	•	•	•	•	•	•	•	•
84	6.1	23	•	•	•	•	•	•	•	•
90	-	14	30	•	•	•	•	•	•	•
96	-	6.2	21	36	•	•	•	•	•	•
102	-	-	13	28	•	•	•	•	•	•
108	-	-	5.7	19	32	•	•	•	•	•
114	-	-	-	11	23	36	•	•	•	•
120	-	-	-	-	14	26	38	•	•	•
126	-	-	-	-	6.6	18	29	•	•	•
132	-	-	-	-	-	11	22	33	•	•
138	-	-	-	-	-	-	12	22	33	•
144	-	-	-	-	-	-	6.7	16	26	34
150	-	-	-	-	-	-	-	6	15	24
156	-	-	-	-	-	-	-	-	9.6	17
162	-	-	-	-	-	-	-	-	-	10

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:
Erection and Takedown 3

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BUCKNER HEAVYLIFT CRANES

SL11DBV – operation, turntable ballast 250t / central ballast 130t **aat_235_059_00001_00_000**
SL11: L-end section with 1 x R12 roller set 400t Page: 7 of 7

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.50/40/25/20/15
Ground slope: maximum 0.3° D 2825.25/20
Without mechanical auxiliary support

Wind speeds:
maximum 9.0m/s: for boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose.

SL11DBV DR 13m DBR 30m		Permissible weight [t] of the hook block on the main boom									
		For derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 30m									
		0	50	100	150	200	250	300	350	400	450
Main boom length [m]	66	36	•	•	•	•	•	•	•	•	•
	72	25	•	•	•	•	•	•	•	•	•
	78	15	36	•	•	•	•	•	•	•	•
	84	6.2	25	•	•	•	•	•	•	•	•
	90	-	16	35	•	•	•	•	•	•	•
	96	-	8.3	25	•	•	•	•	•	•	•
	102	-	-	17	33	•	•	•	•	•	•
	108	-	-	9.3	24	39	•	•	•	•	•
	114	-	-	-	16	30	•	•	•	•	•
	120	-	-	-	7	20	34	•	•	•	•
	126	-	-	-	-	12	25	38	•	•	•
	132	-	-	-	-	6.2	18	30	•	•	•
	138	-	-	-	-	-	9	20	32	•	•
	144	-	-	-	-	-	3.3	14	25	36	36
	150	-	-	-	-	-	-	4	14	25	26
	156	-	-	-	-	-	-	-	8.8	18	20
	162	-	-	-	-	-	-	-	-	11	12

- • Hook block weight permissible up to 40t
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE//23550-17-02/en

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:
Erection and Takedown 4

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BUCKNER HEAVYLIFT CRANES

LR 11000 -- 098279 **T235.059.00205** EN 13000

SL11DBV: SL11-295ft D-138ft BV

⚠ HBH, 631

ft	x1000lb											
49	618.1	731.9	845.7	958.3	1016.8	1071.7	1126.1	1177.9	1226.2	1269.7	634.9	761.8
50	605.0	716.9	828.8	939.8	997.7	1052.7	1107.0	1158.8	1207.2	1251.7	621.5	746.3
60	489.1	584.1	679.2	774.2	831.2	881.6	932.3	982.4	1030.4	1077.2	503.1	609.1
70	403.8	486.5	569.1	651.7	703.6	749.5	794.3	839.3	884.3	927.6	416.0	508.2
80	338.4	411.5	484.6	557.8	604.4	645.4	685.8	726.7	766.4	807.1	349.2	430.7
90	286.7	352.3	417.9	483.4	525.8	562.8	599.7	636.4	672.3	709.3	296.4	369.5
100	244.8	304.2	363.7	423.2	462.8	496.3	530.0	563.2	596.6	629.9	253.5	319.9
110	210.1	264.6	319.0	373.4	410.9	441.6	472.6	503.0	533.7	564.2	218.2	278.9
120	181.4	231.6	281.8	332.0	366.3	394.7	423.4	451.4	479.7	507.9	188.8	244.8
130	156.5	203.0	249.6	296.2	327.4	353.7	380.2	406.4	432.6	458.6	163.3	215.3
140	135.1	178.5	221.9	265.4	294.7	319.3	343.7	368.3	392.8	417.0	141.5	189.9
150	116.5	157.2	197.9	238.6	266.3	289.4	312.4	335.3	358.2	380.9	122.5	167.9
170	86.1	122.3	158.5	194.3	219.6	240.0	260.4	280.9	301.0	321.4	91.4	131.8
190	62.2	94.9	126.9	156.4	181.7	201.4	219.6	238.1	256.3	274.5	67.1	103.4
210	43.2	72.9	100.1	126.6	150.1	169.7	186.6	203.2	219.7	236.3	47.6	80.5
230	28.0	54.7	78.7	102.7	123.9	142.5	159.4	174.6	189.7	204.9	32.0	60.9
250	15.9	39.5	61.5	83.4	102.6	119.7	136.3	150.9	164.9	178.8	19.6	45.2
260		33.1	54.1	75.2	93.5	110.0	126.1	140.7	154.2	167.6	14.5	38.5

x1000lb	0.0	110.2	220.5	330.7	440.9	551.1	661.4	771.6	881.8	992.1	0.0	110.2
ft	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	49.2	49.2
EST1	13x	16x	18x	21x	23x	24x	25x	13x2	13x2	14x2	14x	17x
ft/s	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5

LR 11000 -- 098279 **T235.059.00205** EN 13000

SL11DBV: SL11-295ft D-138ft BV

⚠ HBH, 631

ft	x1000lb											
49	888.7	994.4	1060.8	1124.0	1183.9	1239.2	1288.2	1313.1	643.3	776.8	910.4	1012.4
50	871.1	975.6	1041.7	1104.6	1164.7	1220.9	1271.4	1305.4	629.8	761.1	892.4	993.6
60	715.1	810.8	871.3	930.2	987.7	1043.6	1098.0	1150.3	510.2	621.7	733.2	827.4
70	600.3	685.9	740.0	792.2	844.8	896.0	946.9	997.1	422.1	519.1	616.1	700.3
80	512.3	588.5	637.0	683.8	730.6	777.9	824.4	870.0	354.6	440.4	526.2	601.4
90	442.7	511.7	554.9	598.1	640.0	682.8	725.2	766.7	301.2	378.2	455.1	523.4
100	386.2	449.9	489.7	528.3	567.0	605.9	644.3	682.7	257.9	327.7	397.5	460.4
110	339.5	399.0	435.3	470.7	506.4	542.0	577.6	612.9	222.2	286.1	349.9	408.6
120	300.8	355.4	388.8	421.5	454.4	487.3	520.4	552.8	192.5	251.4	310.3	364.3
130	267.2	317.2	348.2	378.6	409.1	439.5	470.3	500.2	166.8	221.4	276.1	325.5
140	238.4	285.2	314.2	342.8	370.8	399.2	427.8	455.9	144.7	195.7	246.6	292.9
150	213.3	257.5	284.6	311.5	337.7	364.3	391.0	417.5	125.5	173.2	221.0	264.7
170	172.2	210.4	235.7	259.3	282.9	306.5	330.2	353.6	94.1	136.6	178.9	217.8
190	137.9	170.7	197.5	218.9	239.9	261.1	282.5	303.5	69.5	107.7	143.4	177.9
210	109.9	139.4	165.4	185.9	204.9	224.2	243.5	262.8	49.8	83.9	114.9	145.8
230	87.6	114.3	138.2	158.5	176.1	193.8	211.4	229.1	34.0	64.0	92.1	120.1
250	69.6	94.1	115.7	135.2	152.3	168.5	184.8	201.0	21.5	48.1	73.7	99.4
260	62.0	85.4	106.1	125.0	142.2	157.8	173.5	188.3	16.3	41.3	65.9	90.5

x1000lb	220.5	330.7	440.9	551.1	661.4	771.6	881.8	992.1	0.0	110.2	220.5	330.7
ft	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	52.5	52.5	52.5	52.5
EST1	19x	22x	24x	25x	13x2	13x2	14x2	14x2	14x	17x	20x	22x
ft/s	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5

PROJECT:
LR11000 SL11DBV 90m

LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com

DRAWING NOTES:
Load Chart 1

FILE:	C:\Users\Dan Ives\OneDrive - Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 - SL11DBV 90m (295').dwg
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Revisions

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Rev.	Date	Description
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SHEET: 013 OF 014

BUCKNER HEAVYLIFT CRANES

LR 11000 -- 098279 **T235.059.00205** EN 13000

SL11DBV: SL11-295ft D-138ft BV

551200 lb | 286600 lb | 360° | 0.3° |

HBH, 631

ft	x1000lb											
49	1083.1	1150.3	1212.0	1268.5	1310.2	1315.5	644.7	791.3	938.0	1041.7	1119.2	1192.8
50	1063.9	1130.9	1192.6	1250.4	1296.5	1313.6	631.2	775.3	919.5	1022.6	1099.9	1173.5
60	891.9	953.6	1015.2	1073.8	1130.9	1185.4	511.4	633.8	756.2	853.8	925.0	994.8
70	757.8	814.0	869.8	924.3	978.1	1030.1	423.1	529.6	636.1	724.2	787.6	851.1
80	653.1	703.2	753.8	803.3	852.7	901.7	355.5	449.7	543.9	622.5	679.7	737.0
90	569.8	615.1	660.9	706.2	751.4	795.7	302.0	386.5	471.0	542.5	593.6	645.2
100	503.0	544.0	585.9	627.2	668.7	709.4	258.7	335.3	412.0	477.9	524.7	571.7
110	447.4	485.3	523.8	561.7	599.9	637.3	222.9	293.0	363.1	424.5	467.6	510.8
120	399.9	435.0	470.4	505.6	540.6	575.4	193.1	257.8	322.5	378.9	418.7	458.5
130	358.6	391.2	423.6	456.4	488.9	521.3	167.4	227.4	287.4	338.9	375.9	412.9
140	323.7	354.1	384.4	415.0	445.4	475.4	145.2	201.2	257.2	305.5	339.8	374.4
150	293.6	322.0	350.5	379.0	407.6	435.6	126.0	178.4	230.9	276.5	308.6	341.0
170	243.8	268.9	294.2	319.5	344.9	369.6	94.6	141.2	187.5	228.5	257.1	285.7
190	204.8	227.3	250.1	272.7	295.4	317.9	69.9	111.9	150.4	188.2	216.7	242.5
210	172.9	193.7	214.1	234.7	255.4	275.8	50.1	87.2	121.2	155.1	184.0	207.2
230	145.5	165.9	184.5	203.5	222.4	241.0	34.3	67.0	97.8	128.5	156.9	178.2
250	122.3	142.8	160.1	177.5	194.9	212.1	21.8	50.8	78.9	107.1	133.3	154.2
260	112.5	132.5	149.6	166.4	183.1	197.2	16.6	43.9	70.9	97.9	123.1	144.1
x1000lb	440.9	551.1	661.4	771.6	881.8	992.1	0.0	110.2	220.5	330.7	440.9	551.1
ft	52.5	52.5	52.5	52.5	52.5	52.5	59.1	59.1	59.1	59.1	59.1	59.1
EST1	24x	12x2	13x2	14x2	14x2	14x2	14x	17x	21x	23x	25x	13x2
ft/s	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5

LR 11000 -- 098279 **T235.059.00205** EN 13000

SL11DBV: SL11-295ft D-138ft BV

551200 lb | 286600 lb | 360° | 0.3° |

HBH, 631

ft	x1000lb											
49	1259.1	1311.1	1317.1	1317.1	647.6	820.6	993.5	1098.4	1189.6	1271.3	1316.2	1318.8
50	1240.6	1296.8	1316.7	1316.7	634.0	804.1	974.2	1079.1	1170.2	1253.3	1309.5	1318.1
60	1062.6	1128.3	1189.5	1244.3	513.7	658.2	802.7	905.7	991.8	1075.4	1155.0	1228.5
70	913.8	974.9	1035.4	1092.1	425.2	550.8	676.4	769.7	848.0	925.7	1000.2	1073.2
80	793.6	849.1	905.0	959.3	357.3	468.5	579.6	663.6	734.1	804.0	872.8	940.9
90	697.4	748.2	798.6	848.7	303.7	403.4	503.1	579.6	642.9	706.3	769.2	831.9
100	618.6	665.6	711.9	757.6	260.2	350.6	441.0	512.0	569.4	627.4	684.7	742.1
110	553.7	597.1	639.9	681.8	224.2	306.9	389.7	455.8	508.5	561.9	614.6	667.7
120	498.2	538.2	577.9	616.6	194.3	270.7	347.0	407.6	456.5	505.7	554.4	603.4
130	449.7	486.7	523.6	559.7	168.5	239.3	310.1	365.5	411.0	456.5	501.9	547.2
140	408.7	443.1	477.3	511.4	146.3	212.3	278.4	330.3	372.6	414.9	457.4	499.5
150	373.2	405.3	437.5	469.4	127.0	188.9	250.7	299.7	339.2	378.9	418.7	458.3
170	314.3	342.9	371.4	399.6	95.5	150.5	203.3	249.1	284.2	319.4	354.7	389.9
190	268.2	293.8	319.5	344.8	70.7	119.8	164.4	208.9	241.0	272.7	304.5	336.1
210	230.5	253.9	277.2	300.1	50.9	93.8	133.7	173.6	205.9	234.6	263.6	292.1
230	199.5	221.0	241.9	263.2	35.0	73.0	109.2	145.3	177.0	203.3	229.7	256.0
250	173.9	193.7	213.3	232.5	22.4	56.3	89.4	122.4	153.2	177.4	201.8	225.8
260	162.9	182.0	200.8	213.6	17.2	49.2	80.9	112.6	143.0	166.2	189.7	212.9
x1000lb	661.4	771.6	881.8	992.1	0.0	110.2	220.5	330.7	440.9	551.1	661.4	771.6
ft	59.1	59.1	59.1	59.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
EST1	14x2	14x2	14x2	14x2	14x	18x	22x	25x	13x2	14x2	14x2	14x2
ft/s	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5

PROJECT:
LR11000 SL11DBV 90m

LOCATION: ----

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

LIFT PLAN BY: Dan Ives, PE
Dani@BucknerHeavylift.com

DRAWING NOTES:
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Revisions

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Rev.	Date	Description
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002	----	----
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BUCKNER HEAVYLIFT CRANES