BUCKNER HEAVYLIFT CRANES

Contents

PROJECT:
LR11000 SDWBV 102m+114m

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 – SDWBV 102m + 114m (355 to 374).dwg
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PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	08.12.2024 @ 4:40:39 PM
PLOTTED:	08.12.2024 @ 4:40:42 PM

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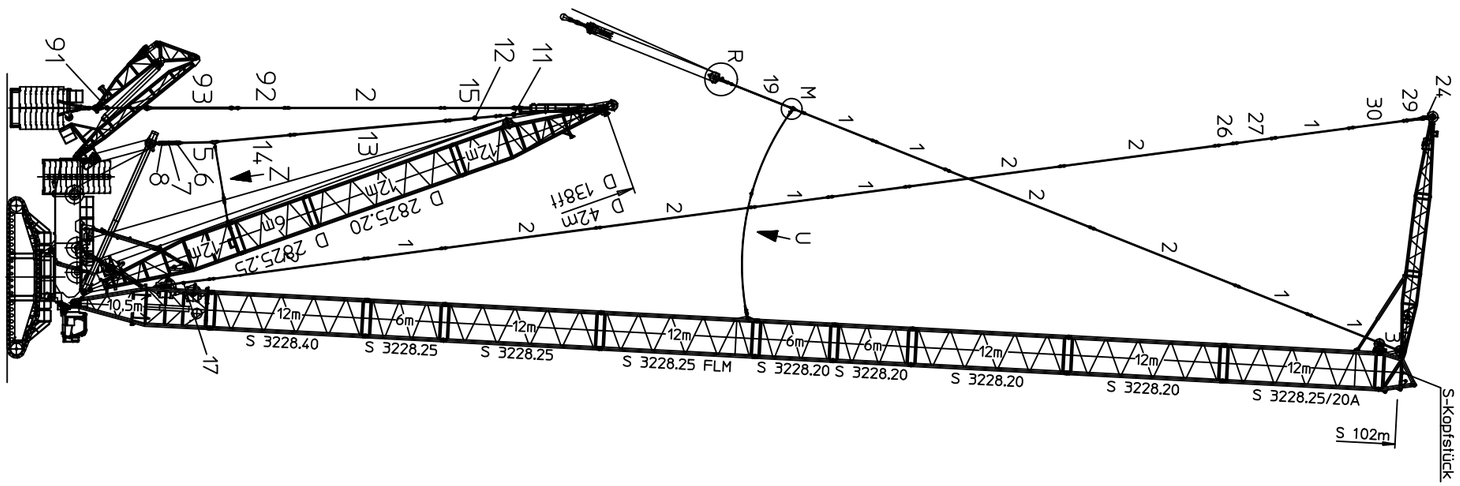
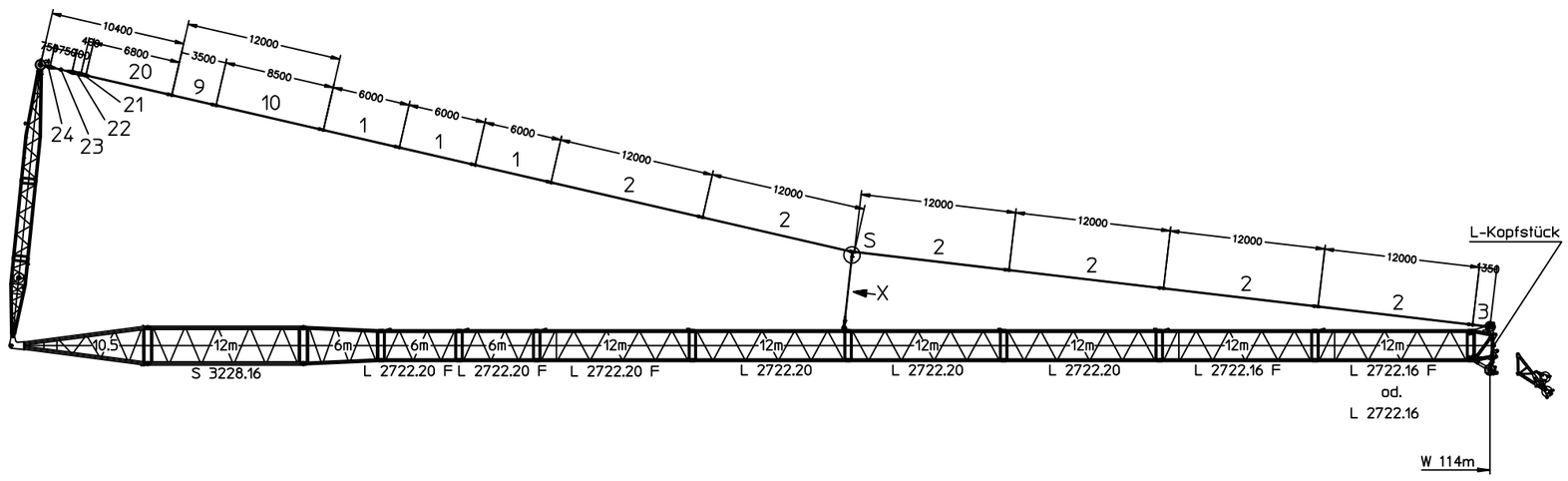
BUCKNER HEAVYLIFT CRANES



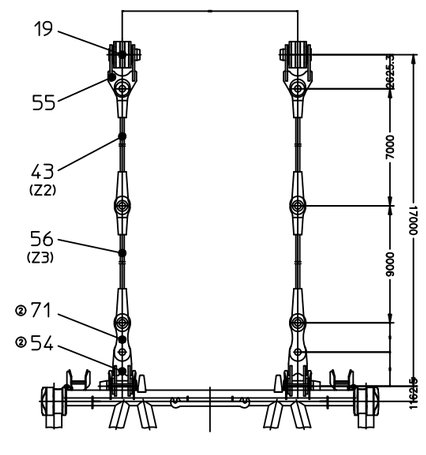


Ansicht U

M 1:20

für Zusatzabspannung (17m)

S 108m u. S 102m



Ansicht X

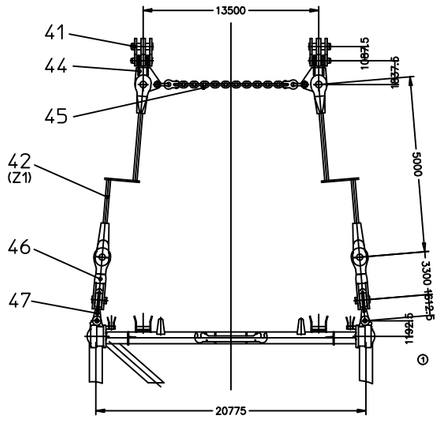
M 1:20

für Zusatzabspannung (6,0m)

W 72m, W 78m, W 90m,

W 96m, W 108m und

W 114m



PROJECT:

LR11000 SDWBV 102m+114m

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

DRAWING NOTES:

Build Sheet

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 – SDWBV 102m + 114m 2455 & 3748.dwg
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FILE SIZE:	8088.82Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	08.12.2024 @ 4:40:39 PM
PLOTTED:	08.12.2024 @ 4:40:43 PM

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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	109
7	967846608	PULL TAB WITH SIGN	0.4M	
8	967845508	DRAW SHACKLE	0.7M	
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	
17	968490108	ROD CPL.	4.4M	
19	968190208	PULL ROD	6.005M	
24	968469908	BRACKET CPL.		
25	968489708	ROD CPL.	1M	
26	968489908	ROD CPL.	1.4M	
27	968190008	PULL ROD	3M	
28	968246608	PULL ROD		
29	968471208	ROCKER		
30	968468008	ROD	3.95 M	
40	968825908	CROSS CONNECTING LINK WELDED		
42	97046984	ADDITIONAL GUY ROPE	40MM 5M	
43	97046985	ADDITIONAL GUY ROPE	40MM 7M	
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	
57	97047309	ADDITIONAL GUY ROPE	40MM 6M	
67	968786808	PULL ROD		
68	968772408	PULL ROD		
69	968772308	CONNECTING LINK PRE-ASS.		
70	968772208	CONNECTING LINK PRE-ASS.		
71	969308308	BRACKET CPL.	0.3M	
72	968902608	ROD CPL.	BALLASTWAGEN5.5M	
73	969609008	ROD CPL.	4.25M D36	
74	968902708	ROD CPL.	BALLASTWAGEN	
1000	98007910	RODS/ PULL RODS LR 11000	F. SDWB/BW/B2	

Pos.	Item	Description		Page
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10	967898308	PULL ROD	8.5 M	
20	968502708	ROD CPL.	6.8M	
21	968574008	PULL TAB WITH SIGN	0.4M	
22	917368908	MEASURING PLATE	2500 KN	110
23	968482708	ROCKER		
24	968469908	BRACKET CPL.		
25	968489708	ROD CPL.	1M	
26	968489908	ROD CPL.	1.4M	
27	968190008	PULL ROD	3M	
41	968768408	BRACKET CPL.		
42	97046984	ADDITIONAL GUY ROPE	40MM 5M	
43	97046985	ADDITIONAL GUY ROPE	40MM 7M	
44	968768308	CROSS CONNECTING LINK WELDED		
45	97047031	CHAIN	1507	
46	968766708	CROSS SHACKLE CPL.		
47	968766608	CROSS SHACKLE CPL.		
1000	98007074	RODS/ PULL RODS LR 11000	F. W	

PROJECT:
LR11000 SDWBV 102m+114m

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

DRAWING NOTES:
Rod Plan 1 – Main Boom and Luffer

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 – SDWBV 102m + 114m (2515) 4.40.39.dwg
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PLOTTED:	08.12.2024 @ 4:40:43 PM

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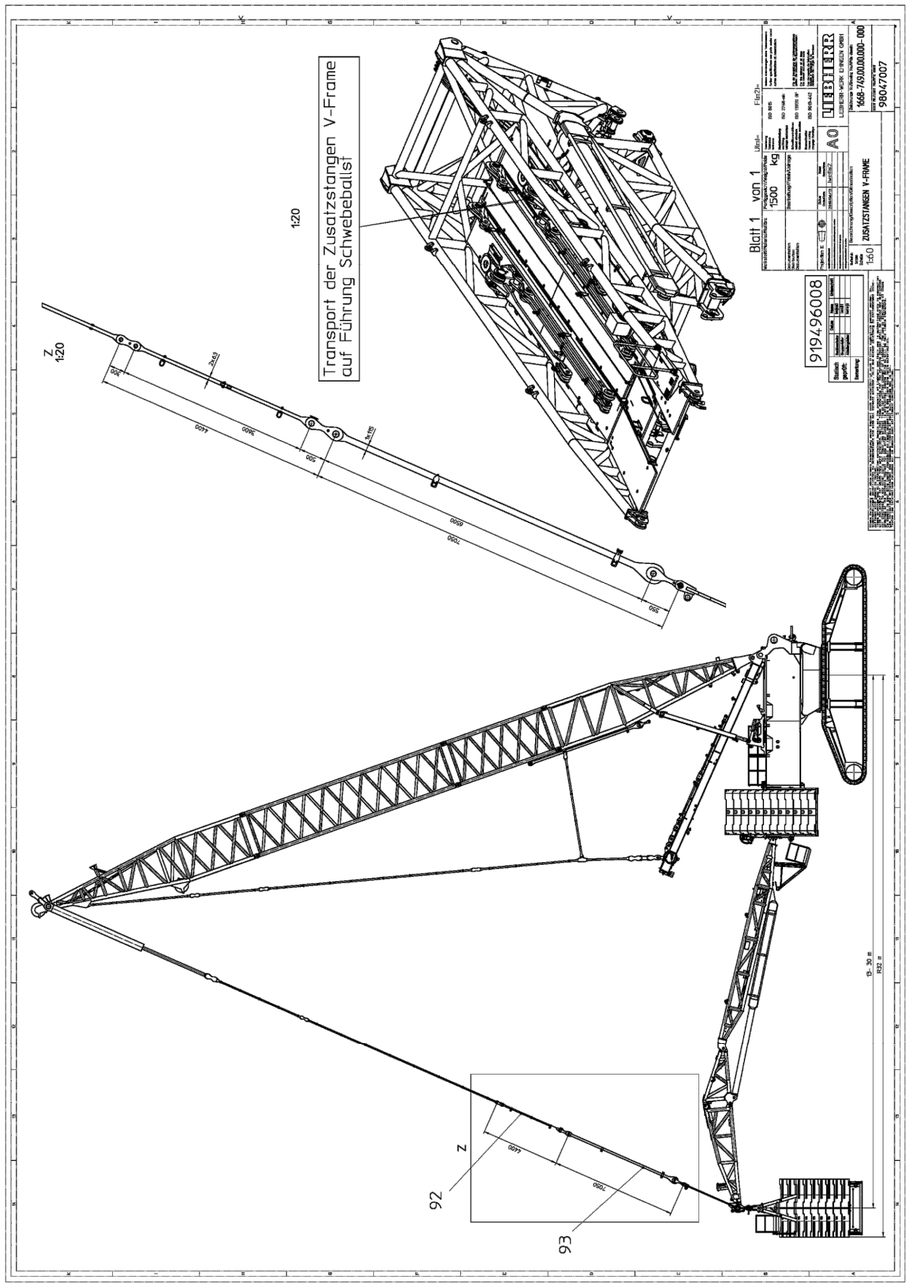
BUCKNER HEAVYLIFT CRANES



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

PROJECT:
LR11000 SDWBV 102m+114m

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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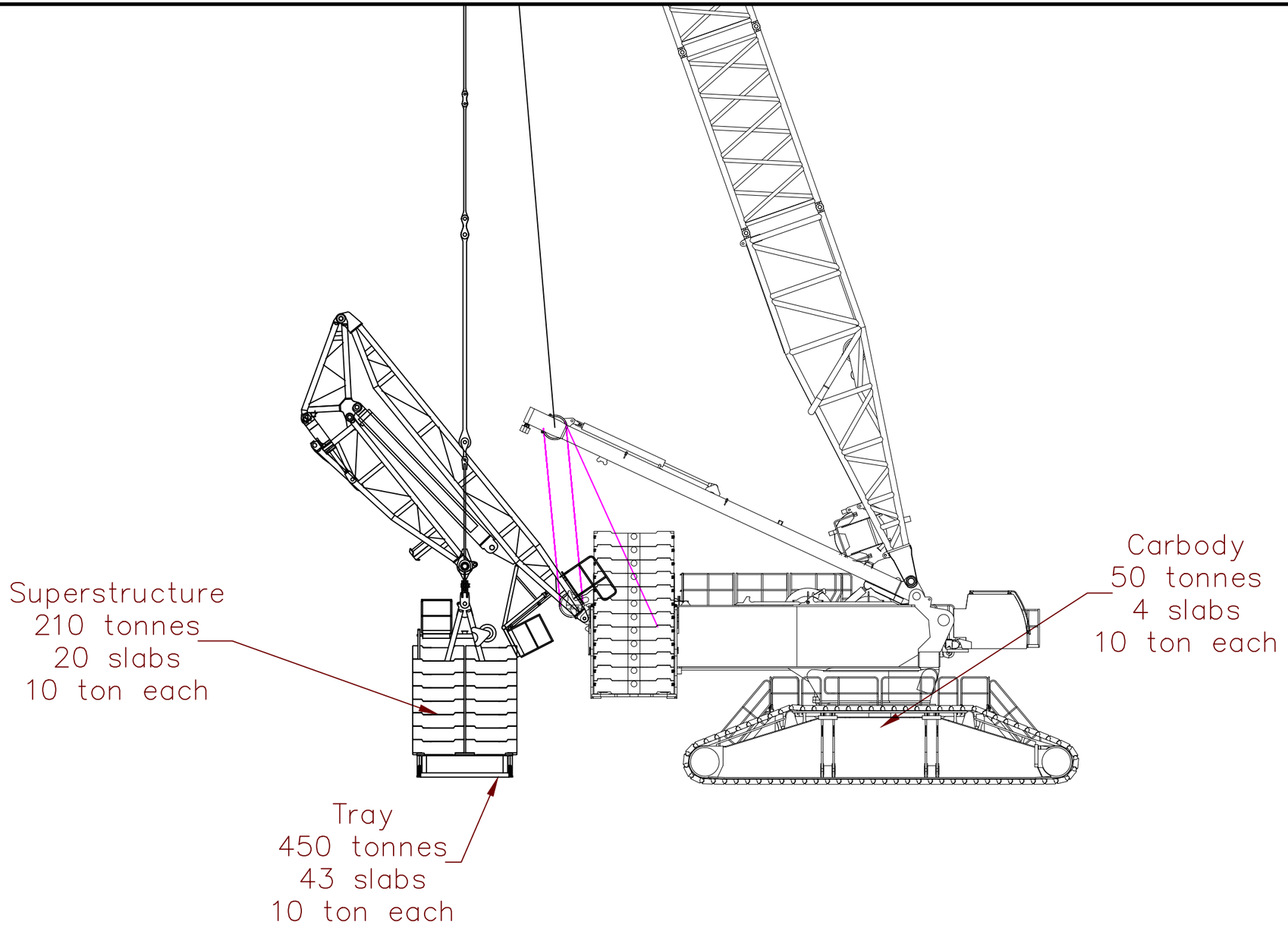
BUCKNER HEAVYLIFT CRANES



PROJECT:
LR11000 SDWBV 102m+114m

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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SAVED:	08.12.2024 @ 4:40:39 PM
PLOTTED:	08.12.2024 @ 4:40:45 PM

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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 SDWBV 102m+114m

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

DRAWING NOTES:
Hook Blocks

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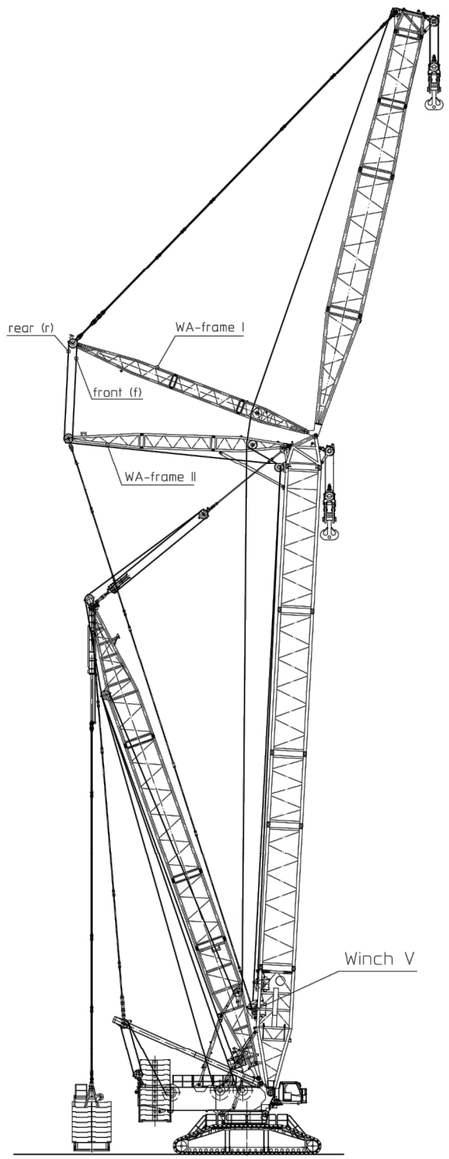
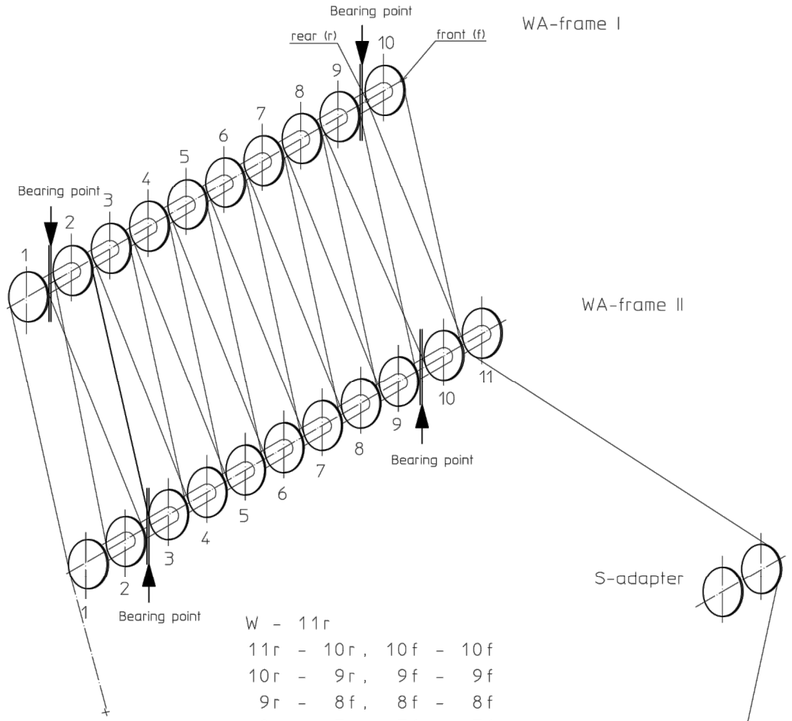
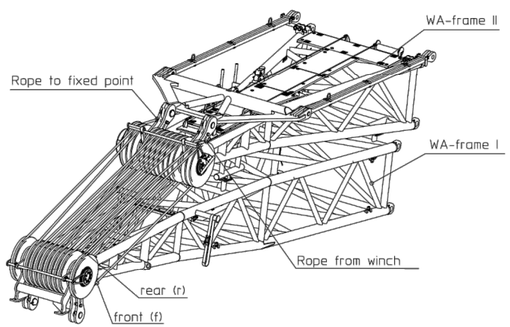
BUCKNER HEAVYLIFT CRANES





W - 11r
11r - 10r, 10f - 10f
10r - 9r, 9f - 9f
9r - 8f, 8f - 8f
8r - 7r, 7f - 7f
7r - 6r, 6f - 6f
6r - 5r, 5f - 5f
5r - 4r, 4f - 4f
4r - 3r, 3f - 3f
3r - 2f, 2r - 2r
2f - 1f, 1r - 1r
1r - F

Situation at reeving



W = winch = Winde
f = front = vorne
r = rear = hinten
F = fixpoint = Festpunkt

Reeving W-control

LWE_CAD

27.03.2013 | SAR

1:150

REEVING PLAN
W-CONTROL

1668-722.00.00.002-001

9800 7755

PROJECT:
LR11000 SDWBV 102m+114m

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

DRAWING NOTES:
Reeving Plan – Winch 5

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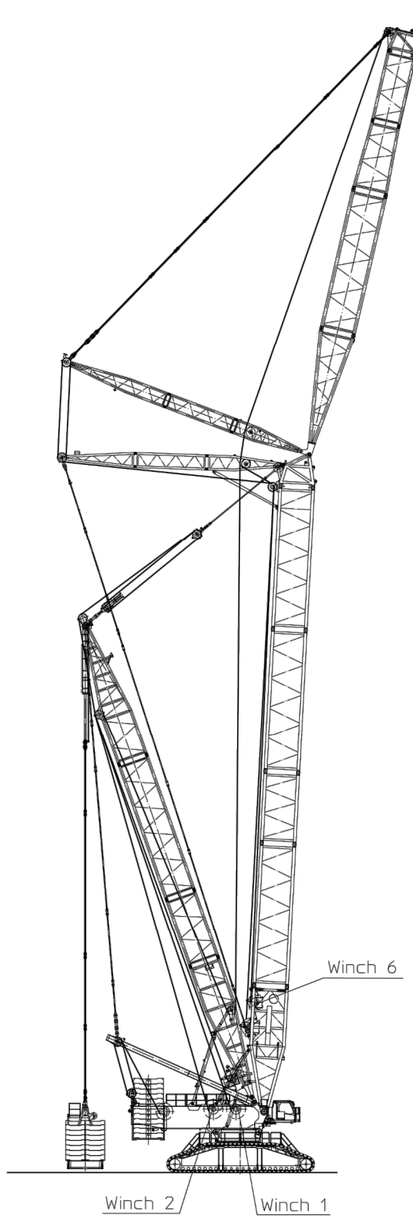
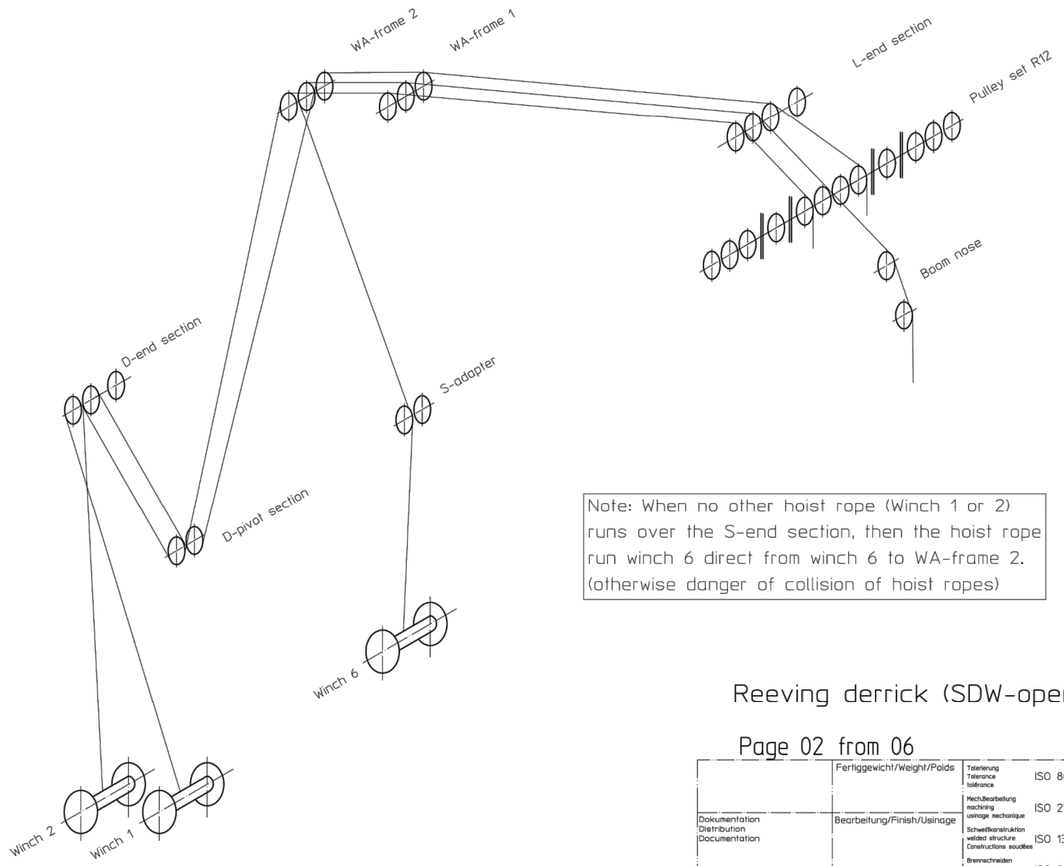
BUCKNER HEAVYLIFT CRANES



Reeving:

With derrick to L-end section,
additional reeving, see
1668-722.00.00.007- and 1668-722.00.00.008-
with derrick to boom nose,
additional reeving, see
1668-722.00.00.012-



Note: When no other hoist rope (Winch 1 or 2) runs over the S-end section, then the hoist rope run winch 6 direct from winch 6 to WA-frame 2. (otherwise danger of collision of hoist ropes)

Reeving derrick (SDW-operation)

Page 02 from 06

	Fertiggewicht/Weight/Poids	Tolerierung / Tolerance / tolérance	ISO 8015	Weitere Anforderungen siehe Teilestamssatz / further specifications see parts master record / autres spécifications cf. nomenclature
		Mech.Bearbeitung machining usinage mechanique	ISO 2768-mk	
Dokumentation Distribution Documentation	Bearbeitung/Finish/Usinage	Schweißkonstruktion welded structure Constructions soudées	ISO 13920 BF	Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen / For the delivery of all items the newest documents apply / Les documents de fabrication actuels s appliquent à la réalisation de l objet de livraison
		Brennschneiden thermal cutting coupage thermique	ISO 9013-442	

	Datum / Date	Name / Nom		
Projektion E			A1	LIEBHERR
gezeichnet/drawn/dessiné	27.03.2013	SAR		LIEBHERR-WERK EHINGEN GMBH
Teamverantwortlicher/Leitender office/Responsible section				
Gruppenleiter/team leader/chef de groupe				
Abteilungsleiter/Head/chef de section				

Maßstab / Scale / Echelle	Bezeichnung/Description/Dénomination	Zeichnungs Nr./Drawing No./N°de dessin	Ident Nr./Ident No./N°d'ident
1:100	REEVING PLAN DERRICK	1668-722.00.00.004-004	9800 7757

PROJECT:
LR11000 SDWBV 102m+114m

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

DRAWING NOTES:
Reeving Plan – Derrick

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PLOTTED:	08.12.2024 @ 4: 40: 46 PM

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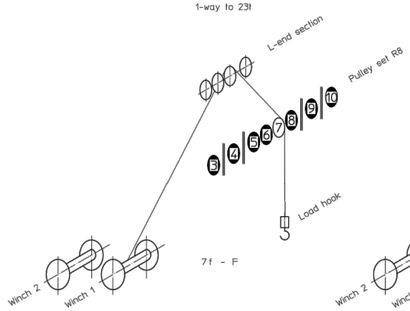
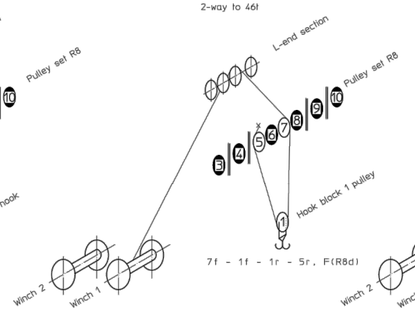
BUCKNER HEAVYLIFT CRANES

Reeving:
1-way to 23t



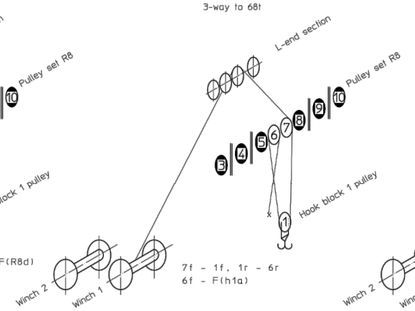
7f - F

Reeving:
2-way to 46t



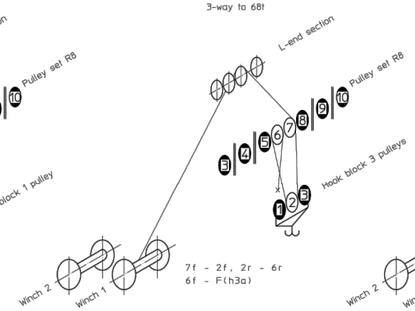
7f - 1f - 1r - 5r, F(R8d)

Reeving:
3-way to 68t



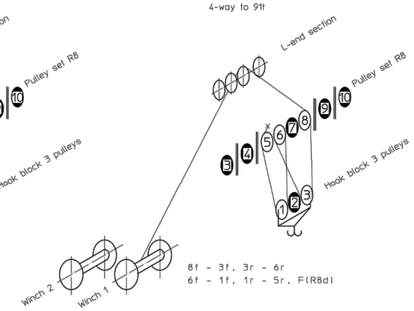
7f - 1f, 1r - 6r
6f - F(h1a)

Reeving:
3-way to 68t



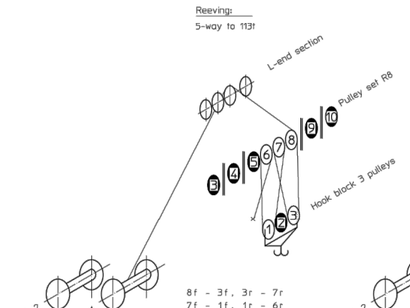
7f - 2f, 2r - 6r
6f - F(h3a)

Reeving:
4-way to 91t



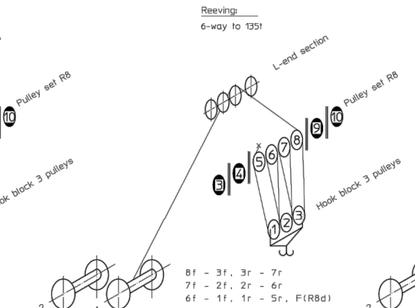
8f - 3f, 3r - 6r
6f - 1f, 1r - 5r, F(R8d)

Reeving:
5-way to 113t



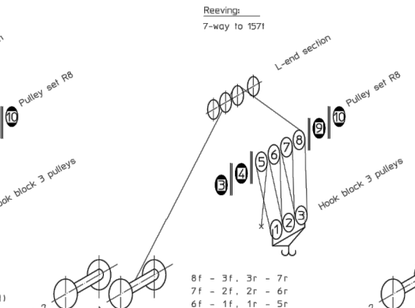
8f - 3f, 3r - 7r
7f - 1f, 1r - 6r
6f - F(h3a)

Reeving:
6-way to 135t



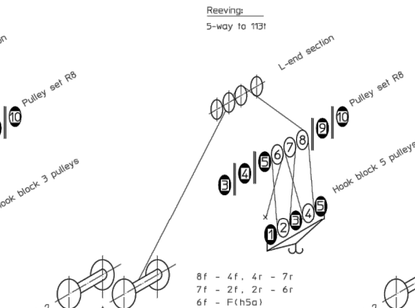
8f - 3f, 3r - 7r
7f - 2f, 2r - 6r
6f - 1f, 1r - 5r, F(R8d)

Reeving:
7-way to 157t



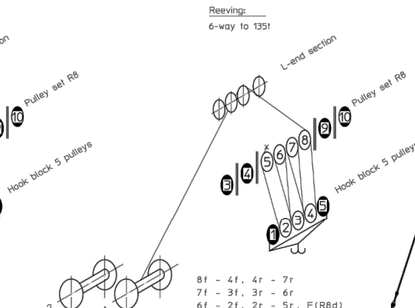
8f - 3f, 3r - 7r
7f - 2f, 2r - 6r
6f - 1f, 1r - 5r
5f - F(h3a)

Reeving:
5-way to 113t



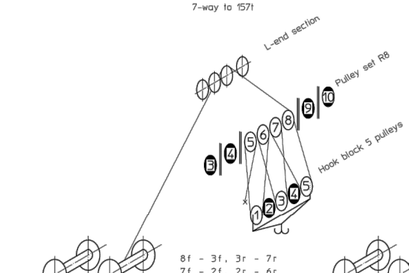
8f - 4f, 4r - 7r
7f - 2f, 2r - 6r
6f - F(h5a)

Reeving:
6-way to 135t



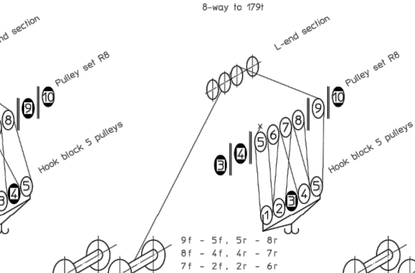
8f - 4f, 4r - 7r
7f - 3f, 3r - 6r
6f - 2f, 2r - 5r, F(R8d)

Reeving:
7-way to 157t



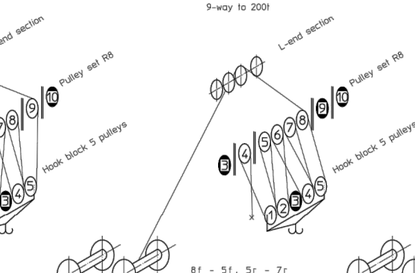
8f - 3f, 3r - 7r
7f - 2f, 2r - 6r
6f - 1f, 1r - 5r
5f - F(h5a)

Reeving:
8-way to 179t



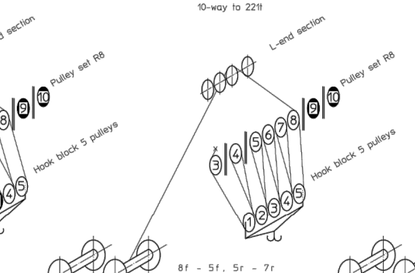
9f - 5f, 5r - 8r
8f - 4f, 4r - 7r
7f - 2f, 2r - 6r
6f - 1f, 1r - 5r, F(R8d)

Reeving:
9-way to 200t



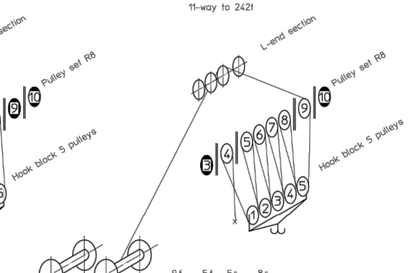
8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 2f, 2r - 5r
5f - 1f, 1r - 4r
4f - F(h5a)

Reeving:
10-way to 221t

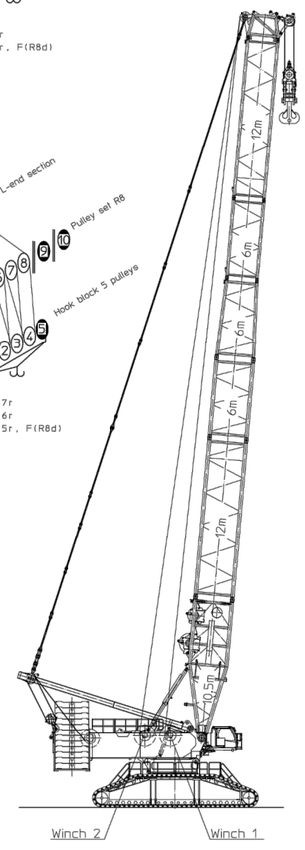


8f - 5f, 5r - 7r
7f - 4f, 4r - 6r
6f - 3f, 3r - 5r
5f - 2f, 2r - 4r
4f - 1f, 1r - 3r, F(R8e)

Reeving:
11-way to 242t



9f - 5f, 5r - 8r
8f - 4f, 4r - 7r
7f - 3f, 3r - 6r
6f - 2f, 2r - 5r
5f - 1f, 1r - 4r
4f - F(h5a)



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

(X) = Free pulley

For the US, restricted load capacities apply for the following reevings.

1-way to 21t	11-way to 232t
2-way to 42t	12-way to 253t
3-way to 63t	13-way to 274t
4-way to 84t	14-way to 295t
5-way to 105t	15-way to 316t
6-way to 126t	16-way to 337t
7-way to 147t	17-way to 358t
8-way to 168t	18-way to 379t
9-way to 189t	19-way to 400t
10-way to 211t	

Reeving of L-end section
single reeved
- with pulley set R8
- with hook block 1 pulley
- with hook block 3 pulleys
- with hook block 5 pulleys

Page 01 from 10

	Fertiggewicht/Weight/Poids	Toleranz Tolerance tolérance	ISO 8015	Weitere Anmerkungen siehe Teilelisten/s. further specifications see parts master record/s. autres spécifications cf. nomenclature	
		Nachbearbeitung nach obiger technique	ISO 2768-mK		
Dokumentation Distribution Documentation	Bearbeitung/Finish/Usinage	Schweißnahtdicken welded structure Constructions soudées	ISO 13920 BF	Für die Herstellung der Lieferge-genstände gelten die aktuellen Fertigungsfreigaben For the delivery of all items the latest RELEASES apply Les documents de fabrication pour la livraison sont les versions en vigueur en usine	
Projektion E	Datum Date/Date	Name Name/Nom	Brennschneiden thermal cutting coupage thermique	ISO 9013-442	
	08.12.2023	SAP			

Maßstab Scale Echelle	Bezeichnung/Description/Dénomination		Zeichnungs Nr./Drawing No./N°de dessin
1:100	REEVING PLAN L-HEAD SINGLE	A0	1668-722.00.00.007-005
		LIEBHERR LIEBHERR-WERK EHINGEN GMBH	Ident Nr./Ident No./N°d'identification 9800 7815

PROJECT:
LR11000 SDWBV 102m+114m

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

DRAWING NOTES:
Reeving Plan – L Head

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SAVED:	08.12.2024 @ 4:40:39 PM		
PLOTTED:	08.12.2024 @ 4:40:47 PM		

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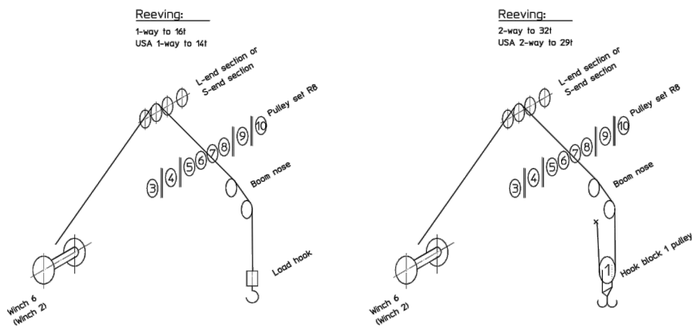
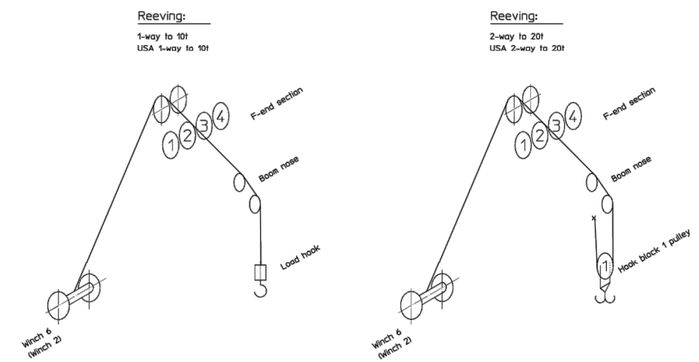
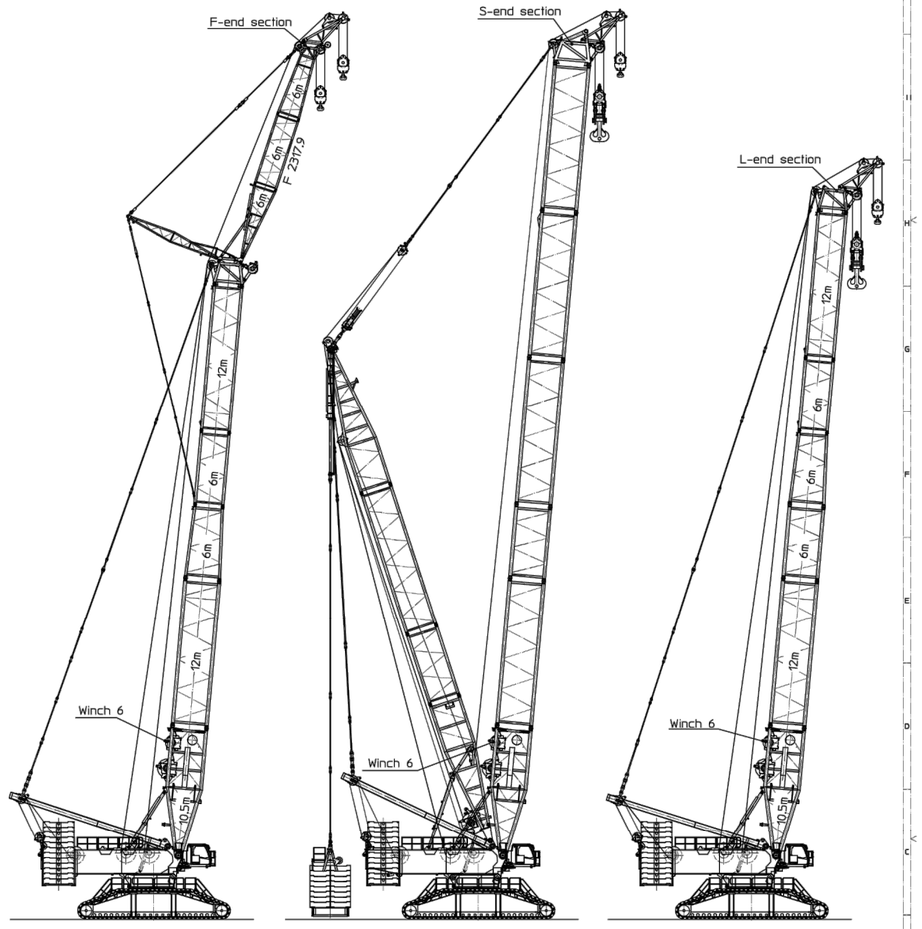
BUCKNER HEAVYLIFT CRANES

Reeving for
L- and S-end section



Reeving for
F-end section





Reeving Boom nose
L- and S-end section to 32t
F-end section 20t

Fertiggewicht/Weight/Poids		Toleranz Tolerance tolérance	ISO 8015
		Rechtbehaltung richtige technische	ISO 2768-mK
Bearbeitung/Finish/Usinage		Schweißnahtsymbole nach Schweißnahtsymbole	ISO 13920 BF
		Brandschutz Protection contre l'incendie	ISO 9013-443
Projektion E	Status Date/Date	Name Name/Nom	A0
	05.07.2013	SAR	

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

Maßstab Scale Echelle	Bezeichnung/Description/Dénomination	Zeichnungs Nr./Drawing No./N°de dessin
1:100	REEVING PLAN BOOM NOSE	1668-722.00.00.012-002
		Ident Nr./Ident No./N°d'ident 9801 0044

PROJECT:
LR11000 SDWBV 102m+114m

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

DRAWING NOTES:
Reeving Plan – Rooster

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SAVED:	08.12.2024 @ 4:40:39 PM
PLOTTED:	08.12.2024 @ 4:40:48 PM

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BUCKNER HEAVYLIFT CRANES

SDWBV – operation, derrick ballast radius 15m **aat_235_080_00002_00_000**

S-boom: S-end section without roller set
W-boom: L-end section with pulley set R12

SDWBV: Turntable / central ballast 210t/50t

System: S 3228.40/25/20/16
L 2722.20/16
D 2825.25/20

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SDWBV DR 13m / DBR 15m			permissible weight [t] of the hook block on the W-boom for derrick ballast [t] for derrick radius (DR) = 13m, derrick ballast radius (DBR) = 15m									
			450	400	350	300	250	200	150	100	50	0
S [m]	102	W [m]										
		18	-	-	-	-	-	-	-	-	-	-
		24	-	-	-	-	-	-	-	-	-	-
		30	-	-	-	-	-	-	-	-	-	-
		36	-	-	-	-	-	-	-	-	-	-
		42	-	-	-	-	-	-	-	-	-	-
		48	-	-	-	-	-	-	-	-	-	-
		54	-	-	-	-	-	-	-	-	-	-
		60	-	-	-	-	-	-	-	-	-	-
		66	-	-	-	-	-	-	-	-	-	-
		72	-	-	-	-	-	-	-	-	-	-
		78	-	-	-	-	-	-	-	-	-	-
		84	-	-	-	-	-	-	-	-	-	-
		90	-	-	-	-	-	-	-	-	-	-
		96	-	-	-	-	-	-	-	-	-	-
		102	-	-	-	-	-	-	-	-	-	-
		108	-	-	-	-	-	-	-	-	-	-
		114	-	-	-	-	-	-	-	-	-	-

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

LIEBHERR

SDWBV – operation, derrick ballast radius 16m **aat_235_080_00003_00_000**

S-boom: S-end section without roller set
W-boom: L-end section with pulley set R12

SDWBV: Turntable / central ballast 210t/50t

System: S 3228.40/25/20/16
L 2722.20/16
D 2825.25/20

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SDWBV DR 13m / DBR 16m			permissible weight [t] of the hook block on the W-boom for derrick ballast [t] for derrick radius (DR) = 13m, derrick ballast radius (DBR) = 16m									
			450	400	350	300	250	200	150	100	50	0
S [m]	102	W [m]										
		18	2.5	-	-	-	-	-	-	-	-	-
		24	-	-	-	-	-	-	-	-	-	-
		30	-	-	-	-	-	-	-	-	-	-
		36	-	-	-	-	-	-	-	-	-	-
		42	-	-	-	-	-	-	-	-	-	-
		48	-	-	-	-	-	-	-	-	-	-
		54	-	-	-	-	-	-	-	-	-	-
		60	-	-	-	-	-	-	-	-	-	-
		66	-	-	-	-	-	-	-	-	-	-
		72	-	-	-	-	-	-	-	-	-	-
		78	-	-	-	-	-	-	-	-	-	-
		84	-	-	-	-	-	-	-	-	-	-
		90	-	-	-	-	-	-	-	-	-	-
		96	-	-	-	-	-	-	-	-	-	-
		102	-	-	-	-	-	-	-	-	-	-
		108	-	-	-	-	-	-	-	-	-	-
		114	-	-	-	-	-	-	-	-	-	-

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

LIEBHERR

PROJECT:
LR11000 SDWBV 102m+114m

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

SDWBV – operation, derrick ballast radius 18m **aat_235_080_00004_00_000**

S-boom: S-end section without roller set
W-boom: L-end section with pulley set R12

Page: 7 of 8

SDWBV: Turntable / central ballast 210t/50t

System: S 3228.40/25/20/16
L 2722.20/16
D 2825.25/20

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SDWBV DR 13m / DBR 18m			permissible weight [t] of the hook block on the W-boom									
			for derrick ballast [t] for derrick radius (DR) = 13m, derrick ballast radius (DBR) = 18m									
			450	400	350	300	250	200	150	100	50	0
S [m]	102	W [m]										
		18	10	-	-	-	-	-	-	-	-	-
		24	7.6	-	-	-	-	-	-	-	-	-
		30	-	-	-	-	-	-	-	-	-	-
		36	-	-	-	-	-	-	-	-	-	-
		42	-	-	-	-	-	-	-	-	-	-
		48	-	-	-	-	-	-	-	-	-	-
		54	-	-	-	-	-	-	-	-	-	-
		60	-	-	-	-	-	-	-	-	-	-
		66	-	-	-	-	-	-	-	-	-	-
		72	-	-	-	-	-	-	-	-	-	-
		78	-	-	-	-	-	-	-	-	-	-
		84	-	-	-	-	-	-	-	-	-	-
		90	-	-	-	-	-	-	-	-	-	-
		96	-	-	-	-	-	-	-	-	-	-
		102	-	-	-	-	-	-	-	-	-	-
		108	-	-	-	-	-	-	-	-	-	-
		114	-	-	-	-	-	-	-	-	-	-

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

LWE//23550-16-02/en

LIEBHERR

SDWBV – operation, derrick ballast radius 22m **aat_235_080_00005_00_000**

S-boom: S-end section without roller set
W-boom: L-end section with pulley set R12

Page: 7 of 8

SDWBV: Turntable / central ballast 210t/50t

System: S 3228.40/25/20/16
L 2722.20/16
D 2825.25/20

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SDWBV DR 13m / DBR 22m			permissible weight [t] of the hook block on the W-boom									
			for derrick ballast [t] for derrick radius (DR) = 13m, derrick ballast radius (DBR) = 22m									
			450	400	350	300	250	200	150	100	50	0
S [m]	102	W [m]										
		18	25	15	3.1	-	-	-	-	-	-	-
		24	24	12	-	-	-	-	-	-	-	-
		30	13	-	-	-	-	-	-	-	-	-
		36	12	-	-	-	-	-	-	-	-	-
		42	11	-	-	-	-	-	-	-	-	-
		48	12	-	-	-	-	-	-	-	-	-
		54	13	-	-	-	-	-	-	-	-	-
		60	16	3.1	-	-	-	-	-	-	-	-
		66	21	7.1	-	-	-	-	-	-	-	-
		72	23	12	-	-	-	-	-	-	-	-
		78	36	-	-	-	-	-	-	-	-	-
		84	23	-	-	-	-	-	-	-	-	-
		90	30	-	-	-	-	-	-	-	-	-
		96	23	-	-	-	-	-	-	-	-	-
		102	-	-	-	-	-	-	-	-	-	-
		108	-	-	-	-	-	-	-	-	-	-
		114	-	-	-	-	-	-	-	-	-	-

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

LWE//23550-16-02/en

LIEBHERR

PROJECT:
LR11000 SDWBV 102m+114m

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

SDWBV – operation, derrick ballast radius 26m **aat_235_080_00006_00_000**

S-boom: S-end section without roller set
W-boom: L-end section with pulley set R12

Page: 7 of 8

SDWBV: Turntable / central ballast 210t/50t

System: S 3228.40/25/20/16
L 2722.20/16
D 2825.25/20

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SDWBV DR 13m / DBR 26m			permissible weight [t] of the hook block on the W-boom									
			for derrick ballast [t] for derrick radius (DR) = 13m, derrick ballast radius (DBR) = 26m									
			450	400	350	300	250	200	150	100	50	0
S [m]	102	W [m] 18	•	28	15	-	-	-	-	-	-	-
		24	37	25	12	-	-	-	-	-	-	-
		30	30	16	-	-	-	-	-	-	-	-
		36	27	15	-	-	-	-	-	-	-	-
		42	28	13	-	-	-	-	-	-	-	-
		48	29	14	-	-	-	-	-	-	-	-
		54	29	15	-	-	-	-	-	-	-	-
		60	35	19	3.9	-	-	-	-	-	-	-
		66	31	24	8	-	-	-	-	-	-	-
		72	26	24	13	-	-	-	-	-	-	-
		78	39	39	-	-	-	-	-	-	-	-
		84	35	25	-	-	-	-	-	-	-	-
		90	30	30	-	-	-	-	-	-	-	-
		96	23	23	-	-	-	-	-	-	-	-
		102	16	16	-	-	-	-	-	-	-	-
		108	10	-	-	-	-	-	-	-	-	-
		114	5.8	-	-	-	-	-	-	-	-	-

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

LWE//23550-16-02/en

LIEBHERR

SDWBV – operation, derrick ballast radius 30m **aat_235_080_00007_00_000**

S-boom: S-end section without roller set
W-boom: L-end section with pulley set R12

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SDWBV: Turntable / central ballast 210t/50t

System: S 3228.40/25/20/16
L 2722.20/16
D 2825.25/20

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SDWBV DR 13m / DBR 30m			permissible weight [t] of the hook block on the W-boom									
			for derrick ballast [t] for derrick radius (DR) = 13m, derrick ballast radius (DBR) = 30m									
			450	400	350	300	250	200	150	100	50	0
S [m]	102	W [m] 18	•	•	27	13	-	-	-	-	-	-
		24	•	38	25	9.7	-	-	-	-	-	-
		30	•	27	15	-	-	-	-	-	-	-
		36	38	27	13	-	-	-	-	-	-	-
		42	37	28	12	-	-	-	-	-	-	-
		48	•	30	13	-	-	-	-	-	-	-
		54	35	29	14	-	-	-	-	-	-	-
		60	37	36	18	-	-	-	-	-	-	-
		66	39	33	22	4.4	-	-	-	-	-	-
		72	38	27	23	-	-	-	-	-	-	-
		78	39	39	37	-	-	-	-	-	-	-
		84	39	36	25	-	-	-	-	-	-	-
		90	30	30	30	-	-	-	-	-	-	-
		96	22	22	22	-	-	-	-	-	-	-
		102	15	15	-	-	-	-	-	-	-	-
		108	10	10	-	-	-	-	-	-	-	-
		114	5.8	5.8	-	-	-	-	-	-	-	-

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

LWE//23550-16-02/en

LIEBHERR

PROJECT:
LR11000 SDWBV 102m+114m

LOCATION: ----

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

DRAWING NOTES:
Erection and Takedown 3

FILE: C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 – SDWBV 102m + 114m (355 - 374).dwg
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Revisions

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Rev.	Date	Description
000	08.12.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
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009	----	----
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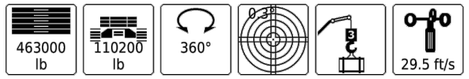
SHEET: 013 OF 014

BUCKNER HEAVYLIFT CRANES

LR 11000 -- 098260 **T235.080.00217** EN 13000

SDWBV: S-335ft D-138ft W-374ft BV



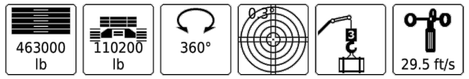
631, 610

ft	x1000lb											
132												
140												
150	22.0	55.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	27.0	64.9
170		39.1	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	12.9	47.1
190		25.3	53.3	62.8	62.8	62.8	62.9	62.9	62.9	62.9		32.6
210		13.7	39.4	58.0	58.0	58.0	58.0	58.0	58.0	58.0		20.4
230			27.7	51.3	53.2	53.2	53.2	53.2	53.2	53.2		
250			17.7	40.0	48.5	48.5	48.5	48.5	48.5	48.5		
270				29.9	43.9	43.9	43.9	43.9	43.9	43.9		
290				21.1	39.5	39.5	39.5	39.5	39.5	39.5		
310				13.4	32.0	35.3	35.3	35.3	35.3	35.3		
330					24.2	31.5	31.5	31.5	31.5	31.5		
350					17.4	28.4	28.4	28.4	28.4	28.4		
370					11.5	24.6	24.6	24.6	24.6	24.6		
390						21.4	21.4	21.4	21.4	21.4		
410						17.2	19.8	19.8	19.8	19.8		
430												
450												
470												
490												
510												
530												
550												
570												
577												

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
°	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
EST1	1x	2x	2x	2x	2x	2x	2x	2x	2x	2x	1x	2x

LR 11000 -- 098260 **T235.080.00217** EN 13000

SDWBV: S-335ft D-138ft W-374ft BV



631, 610

ft	x1000lb											
132												
140												
150	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	29.5	69.3	72.9	72.9
170	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	15.2	51.2	67.9	67.9
190	61.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9		36.3	62.9	62.9
210	49.2	58.1	58.1	58.1	58.1	58.1	58.1	58.1		23.8	54.1	58.1
230	36.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3		13.3	41.3	53.3
250	26.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5			30.4	48.5
270	17.0	40.2	43.9	43.9	43.9	43.9	43.9	43.9			20.9	43.9
290		30.8	39.5	39.5	39.5	39.5	39.5	39.5			12.7	35.7
310		22.6	35.4	35.4	35.4	35.4	35.4	35.4				27.2
330		15.4	31.6	31.6	31.6	31.6	31.6	31.6				19.7
350			27.6	28.5	28.5	28.5	28.5	28.5				13.1
370			21.2	24.7	24.7	24.7	24.7	24.7				
390			15.6	21.5	21.5	21.5	21.5	21.5				
410			11.4	19.8	19.8	19.8	19.8	19.9				
430												
450												
470												
490												
510												
530												
550												
570												
577												

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
°	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
EST1	2x	2x	2x	2x	2x	2x	2x	2x	1x	2x	2x	2x

PROJECT:

LR11000 SDWBV 102m+114m

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

DRAWING NOTES:

Load Chart

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Revisions

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009	----	----
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BUCKNER HEAVYLIFT CRANES