



PROJECT:
LR11000 SL3F 102m+12m

LOCATION: -----

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

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

DRAWING NOTES:
Title Page

Contents	
Sheet	Description
001	Title Page
002	Build Sheet
003	Rod Plan
004	Counterweight Arrangement
005	Hook Block
006	Reeving Plan
007	Erection and Takedown
008	Load Chart

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 102m + 12m

CREATED: (335' + 39') - 10.21.2024 @ 9:05:52 AM

EDITING TIME: 2h57m FILE SIZE: 4248.78Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 10.21.2024 @ 9:51:43 AM

PLOTTED: 10.21.2024 @ 9:51:46 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

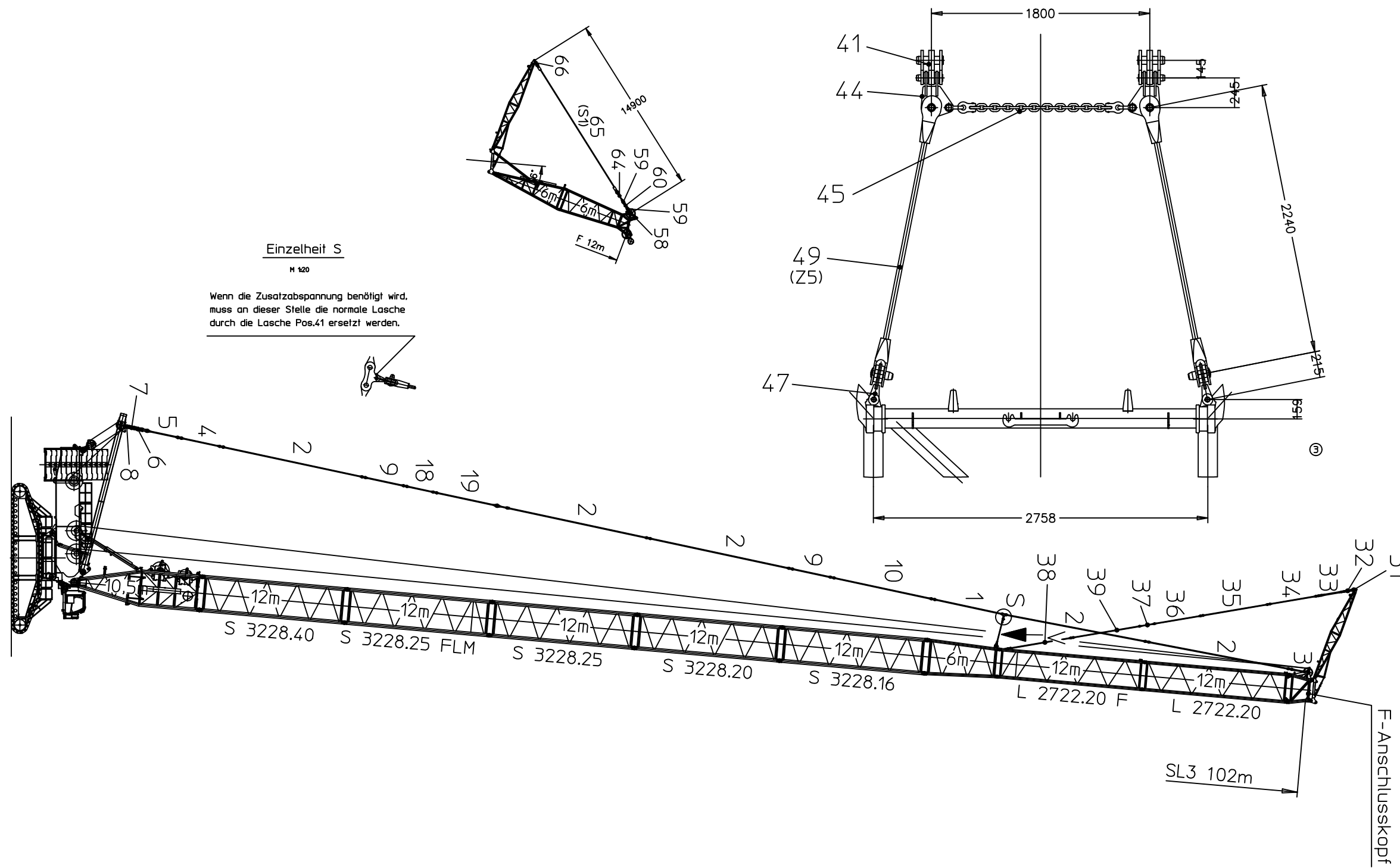
SHEET: 001 OF 008



Ansicht V

M 1:20

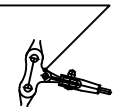
für Zusatzabspannung (2,8m)
SL3 102m



Einzelheit S

M 1:20

Wenn die Zusatzabspannung benötigt wird,
muss an dieser Stelle die normale Lasche
durch die Lasche Pos.41 ersetzt werden.



PROJECT:
LR11000 SL3F 102m+12m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com

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

DRAWING NOTES:
Build Sheet

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 102m + 12m
CREATED: (335' + 39') - 10.21.2024 @ 9:05:52 AM
EDITING TIME: 2h57m | FILE SIZE: 4248.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 10.21.2024 @ 9:51:43 AM
PLOTTED: 10.21.2024 @ 9:51:46 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 002 OF 008



Pos. Item	Description		Page
1 967746908	ROD CPL.	6M	
2 967743808	ROD CPL.	12 M	
3 967913408	ROD CPL.	1.35 M	
4 967981008	PULL ROD	3.525M	
5 967846208	PULL ROD	3.3M	
6 917368808	MEASURING PLATE	3000 KN	19
7 967846608	PULL TAB WITH SIGN	0.4M	
8 967845508	DRAW SHACKLE	0.7M	
9 967897608	PULL ROD	3.5M	
10 967898308	PULL ROD	8.5 M	
18 968190108	PULL ROD	2.5M	
19 968190208	PULL ROD	6.005M	
31 968691108	BRACKET COMPL.		
32 968691308	ROCKER WELDED		
33 968691508	ROCKER WELDED		
34 968691608	PULL ROD	4.05 M	
35 968446808	PULL ROD	5.6 M	
36 968460108	PULL ROD	4.05M	
37 968643708	BRACKET COMPL.	1.25 M	
38 968459808	PULL ROD	5.25 M	
39 968642008	PULL ROD	5.75M	
41 968768408	BRACKET COMPL.		
44 968768308	CROSS CONNECTING LINK WELDED		
45 97047031	CHAIN	1507	
47 968766608	CROSS SHACKLE CPL.		
48 968766808	BRACKET COMPL.		
49 97047327	ADDITIONAL GUY ROPE	40MM 2.24M	
1000 98008717	RODS/ PULL RODS LR 11000	F. SL3F	

Pos. Item	Description		Page
58 968724508	BRACKET COMPL.		
59 968828308	CONNECTING LINK PRE-ASS.		
60 917574408	MEASURING PLATE	800 KN	25
61 97067610	FIBRE TENSIONING ROPE	48X10.75M	
62 97067609	FIBRE TENSIONING ROPE	48X5.25M	
63 968828908	PULL ROD	2.65 M	
64 968829408	PULL ROD	0.8 M	
65 97067602	FIBRE TENSIONING ROPE	48X12.45M	
66 968691208	BRACKET COMPL.		
75 96001458	BRACKET COMPL.		
1000 98009396	RODS/ PULL RODS LR 11000	F. F	

PROJECT:
LR11000 SL3F 102m+12m

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

DRAWING NOTES:
Rod Plan

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 102m + 12m
(335' + 39') - 10.21.2024 @ 9:05:52.dwg
CREATED: 10.21.2024 @ 9:05:52 AM
EDITING TIME: 2h57m FILE SIZE: 4248.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 10.21.2024 @ 9:51:43 AM
PLOTTED: 10.21.2024 @ 9:51:46 AM

Revisions

All Sheets Same Revision Level

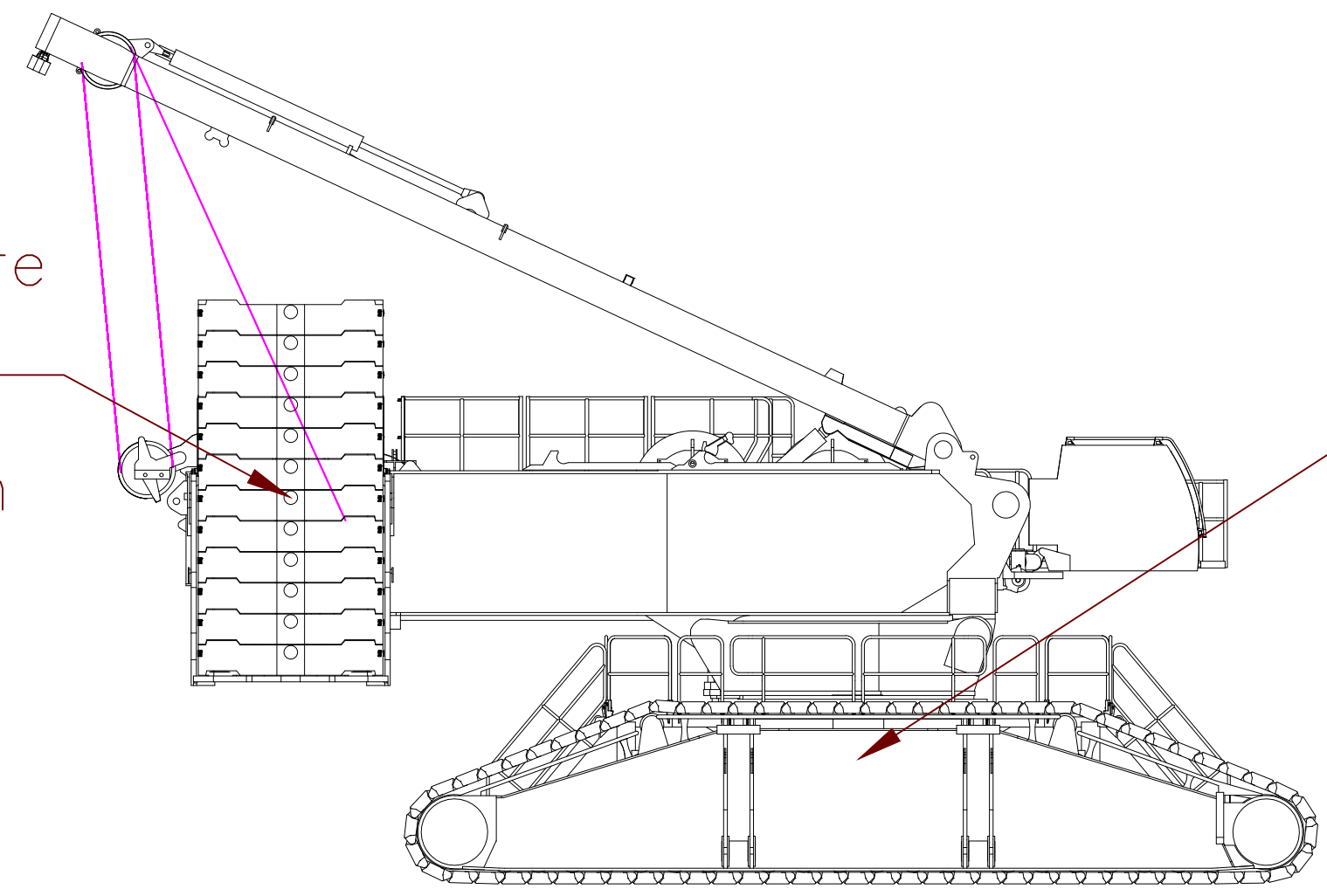
Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 003 OF 008



Superstructure
 250 tonnes
 24 rocks
 10 ton each

Carbody
 90 tonnes
 8 rocks
 10 ton each



PROJECT:
 LR11000 SL3F 102m+12m
 LOCATION: -----
 BUCKNER CONTACT: Dan Ives, PE
 Dani@BucknerCompanies.com
 LIFT PLAN BY: Dan Ives, PE
 Dani@BucknerCompanies.com

DRAWING NOTES:
 Counterweight Arrangement

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
 Cranes\Engineering\Drawings\BHL\Buckner\Build
 Sheets\LR 11000\LR 11000 - SL3F 102m + 12m
 CREATED: (335' + 39') - 10.21.2024 @ 9:05:02 AM
 EDITING TIME: 2h57m FILE SIZE: 4248.78Kb
 PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
 SAVED: 10.21.2024 @ 9:51:43 AM
 PLOTTED: 10.21.2024 @ 9:51:47 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 004 OF 008



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/423601-18-02/en

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	4.5 t	9920 lb
4 auxiliary weights	6.5 t	14330 lb
6 auxiliary weights	8.5 t ¹⁾	18740 lb ¹⁾

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.5 Hook block 250 DM (SWL 250 t (551250 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
242.9 t	535600 lb	5	11	3.0 t	6620 lb

Hook block 250 DM

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights	5.0 t	11030 lb	
4 auxiliary weights	7.0 t	15440 lb	
6 auxiliary weights	9.0 t	19850 lb	
8 auxiliary weights	11.0 t ¹⁾	24260 lb ¹⁾	

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.6 Double hook block 320 / 160 DM (SWL 160 t (352800 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
157.7 t	347600 lb	3	7	3.4 t	7500 lb

Double hook block 320 / 160 DM

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights	5.4 t	11910 lb	
4 auxiliary weights	7.4 t	16320 lb	
6 auxiliary weights	9.4 t	20730 lb	
8 auxiliary weights	11.4 t ¹⁾	25140 lb ¹⁾	

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.7 Double hook block 650 / 325 DMZ (SWL 325 t (716630 lb))

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

LWE/423601-18-02/en

PROJECT:
LR11000 SL3F 102m+12m

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

DRAWING NOTES:
Hook Block

FILE: C:\Users\Dan Ives\OneDrive - Buckner HeavyLift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 102m + 12m
CREATED: (335' + 39') - 160 DMZ 325 DMZ
EDITING TIME: 2h57m FILE SIZE: 4248.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 10.21.2024 @ 9:51:43 AM
PLOTTED: 10.21.2024 @ 9:51:47 AM

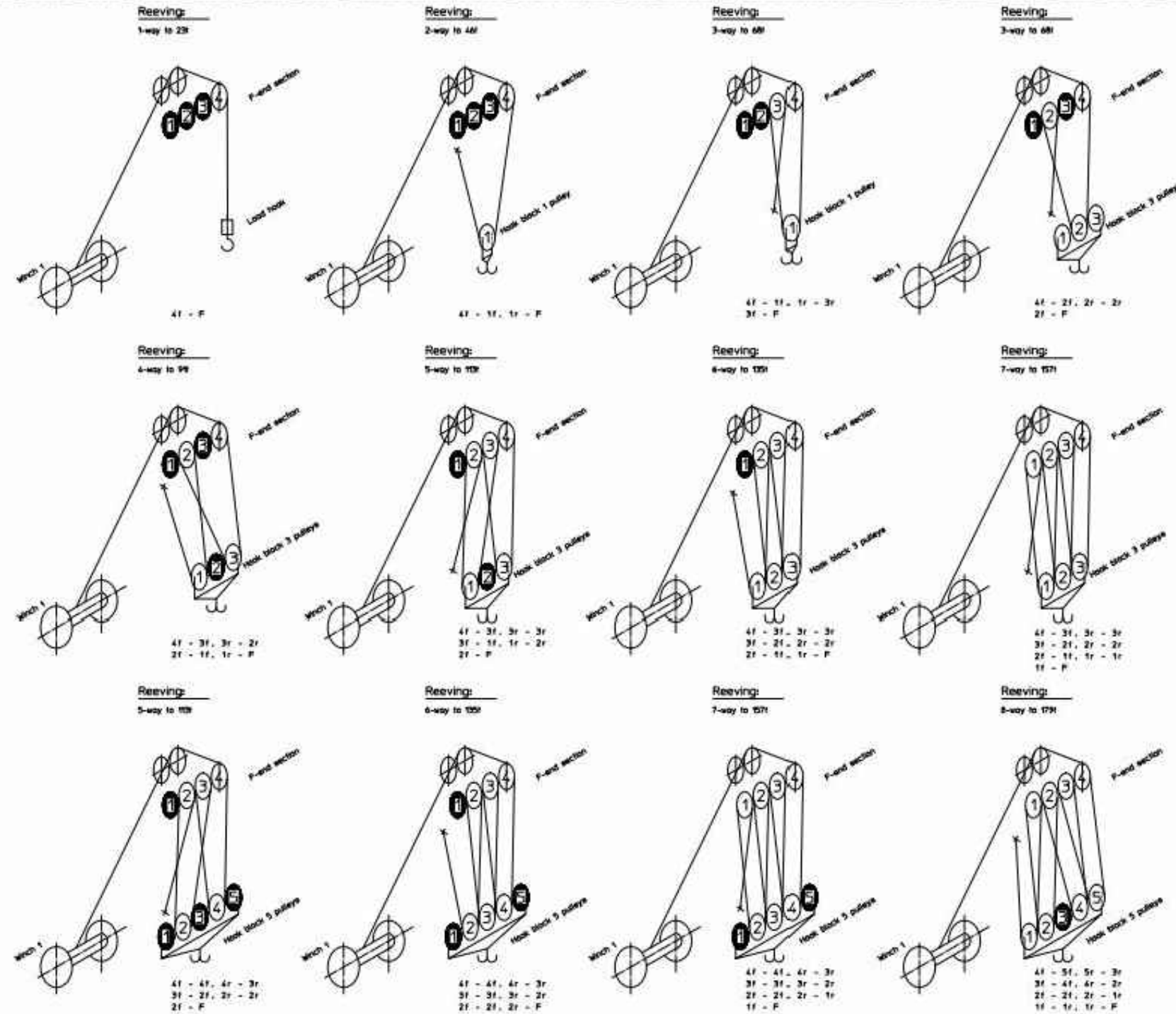
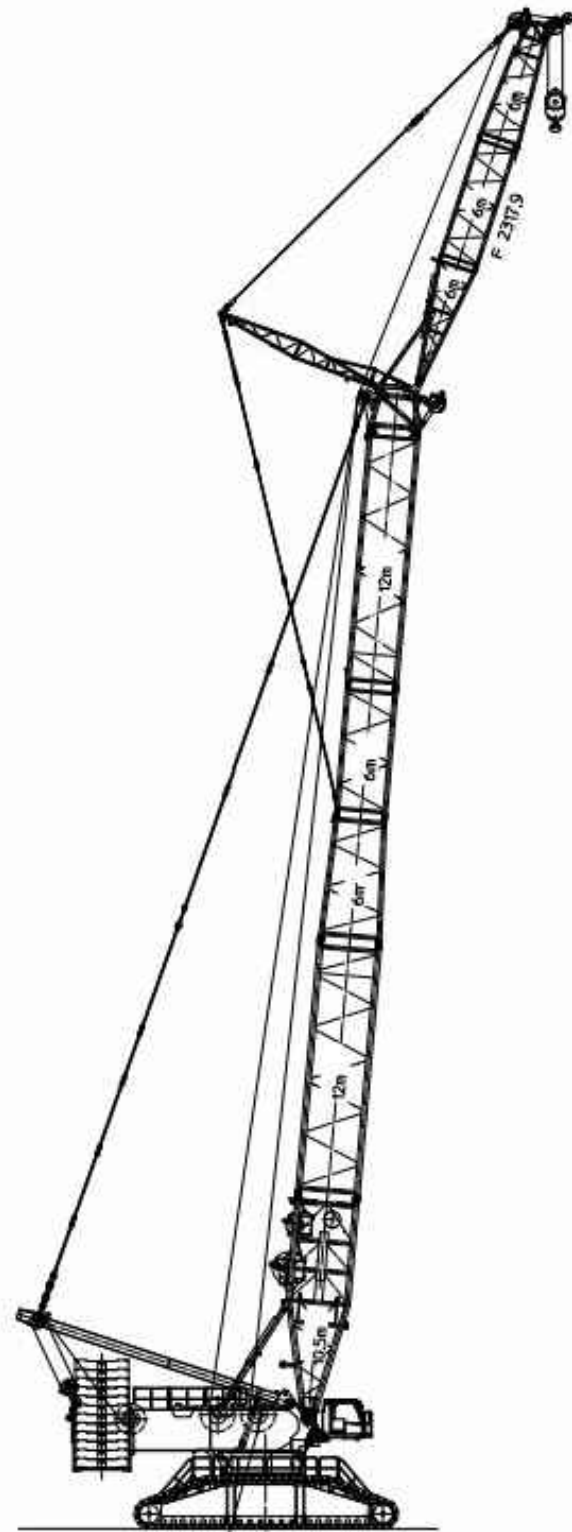
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 005 OF 008





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

1-way to 21f	5-way to 105f
2-way to 42f	6-way to 126f
3-way to 63f	7-way to 147f
4-way to 84f	8-way to 168f

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

Reeving F-end section with load hook
Hook block 1 pulley
Hook block 3 pulleys
Hook block 5 pulleys

Project No.	1100	Revision	006
Project Name	REEVING PLAN	Revision	006
Section	F-END SECTION	Revision	006
Scale	1:1	Revision	006
Author		Revision	006
Checked		Revision	006
Approved		Revision	006
Date	10.21.2024	Revision	006
Drawn		Revision	006
Scale	1:1	Revision	006
Project No.	1100	Revision	006
Project Name	REEVING PLAN	Revision	006
Section	F-END SECTION	Revision	006
Scale	1:1	Revision	006
Author		Revision	006
Checked		Revision	006
Approved		Revision	006
Date	10.21.2024	Revision	006
Drawn		Revision	006
Scale	1:1	Revision	006

PROJECT:
LR11000 SL3F 102m+12m

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

DRAWING NOTES:
Reeving Plan

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 102m + 12m
CREATED: (335' + 39') - 1f0.0+02.49@ 9:05:52 AM
EDITING TIME: 2h57m FILE SIZE: 4248.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 10.21.2024 @ 9:51:43 AM
PLOTTED: 10.21.2024 @ 9:51:48 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 006 OF 008



**SL3F operation, with auxiliary support
F-connector head**

aat_235_017_00002_00_006
Page: 1 of 5

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 12.8m/s
Ground slope: maximum 0.3°

System: S 3228.40/25/20/16
L 2722.20/16
F 2317.8.8

Operation with boom nose: Operation with boom nose is possible from a "permissible weight of hook block on main boom" of 3.5t. In that case, 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 (1t) (incl. hoist rope).

SL3 with F12 with auxiliary support (to the side)		Permissible weight [t] of the hook block on the F-boom													
		for turntable / central ballast [t]													
		250 /	250 /	230 /	210 /	190 /	250 /	230 /	210 /	190 /	170 /	150 /	170 /	150 /	130 /
Main boom length [m]	SL3-102	9.9	9.7	8.3	5.6	2.8	8.2	5.4	2.6	-	-	-	-	-	-
	SL3-108	6.3	6	4.9	2.2*	-	4.7	2.0*	-	-	-	-	-	-	-
	SL3-114	3.7	3.3	2.2*	-	-	2.0*	-	-	-	-	-	-	-	-
	SL3-120	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Hook block weight to maximum 20t permissible
- Erection not permissible
- * For the maximum load capacity and / or for spooling out the hoist rope a higher hook block weight is required. For that reason, the 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/23550-10-02/en

PROJECT:
LR11000 SL3F 102m+12m

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

DRAWING NOTES:
Erection and Takedown

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 102m + 12m
CREATED: (335' + 39') - 10.21.2024 @ 9:05:52 AM
EDITING TIME: 2h57m FILE SIZE: 4248.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 10.21.2024 @ 9:51:43 AM
PLOTTED: 10.21.2024 @ 9:51:48 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	10.21.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 007 OF 008
BUCKNER
HEAVYLIFT CRANES

