

BUCKNER

HEAVYLIFT CRANES

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

PROJECT:
LR11000 SL8F2 84m+24m

LOCATION: -----

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

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

DRAWING NOTES:
Title Page

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL8F2 84m + 24m

CREATED(276' + 79') - 20 Deg -110022502-5698.dwg

EDITING TIME: 5h30m FILE SIZE: 7018.11Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 11.07.2024 @ 2:36:38 PM

PLOTTED: 11.07.2024 @ 2:36:41 PM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	11.07.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 001 OF 008



Pos. Item	Description		Page
1 967746908	ROD CPL.	6M	
2 967743808	ROD CPL.	12 M	
4 967981008	PULL ROD	3.525M	
5 967846208	PULL ROD	3.3M	
6 917368808	MEASURING PLATE	3000 KN	4
7 967846608	PULL TAB WITH SIGN	0.4M	
8 967845508	DRAW SHACKLE	0.7M	
9 967897608	PULL ROD	3.5M	
18 968190108	PULL ROD	2.5M	
19 968190208	PULL ROD	6.005M	
86 96038420	RODS / PULL RODS	7.35M	
87 96035533	BRACKET CPL.		
88 96035475	ROTATING SHAFT		
89 96037814	GUY ROPE CPL.	66X8.5M	
90 96037810	GUY ROPE CPL.	66X18M	
1000 98043886	RODS/ PULL RODS LR 11000	SL8F2	

Pos. Item	Description		Page
76 919219108	MEASURING PLATE	1250 KN	19
77 96037041	DRAW SHACKLE	0.6M	
78 96037042	DRAW SHACKLE	0.230M	
79 97122954	FIBRE TENSIONING ROPE	66X13.1M	
80 96035525	DRAW SHACKLE		
81 96037332	GUY ROPE CPL.	66X2.725M	
82 96037007	GUY ROPE CPL.	66X5.45M	
83 96037255	GUY ROPE CPL.	66X10.9M	
84 96039026	DRAW SHACKLE	0.930M	
85 96039027	DRAW SHACKLE	1.630M	
1000 98043732	RODS/ PULL RODS LR 11000	F2	

PROJECT:
LR11000 SL8F2 84m+24m

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 - SL8F2 84m + 24m
CREATED(276' + 79') - 20 Deg -110022502-5698.dwg
EDITING TIME: 5h30m FILE SIZE: 7018.11Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 11.07.2024 @ 2:36:38 PM
PLOTTED: 11.07.2024 @ 2:36:42 PM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	11.07.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 003 OF 008



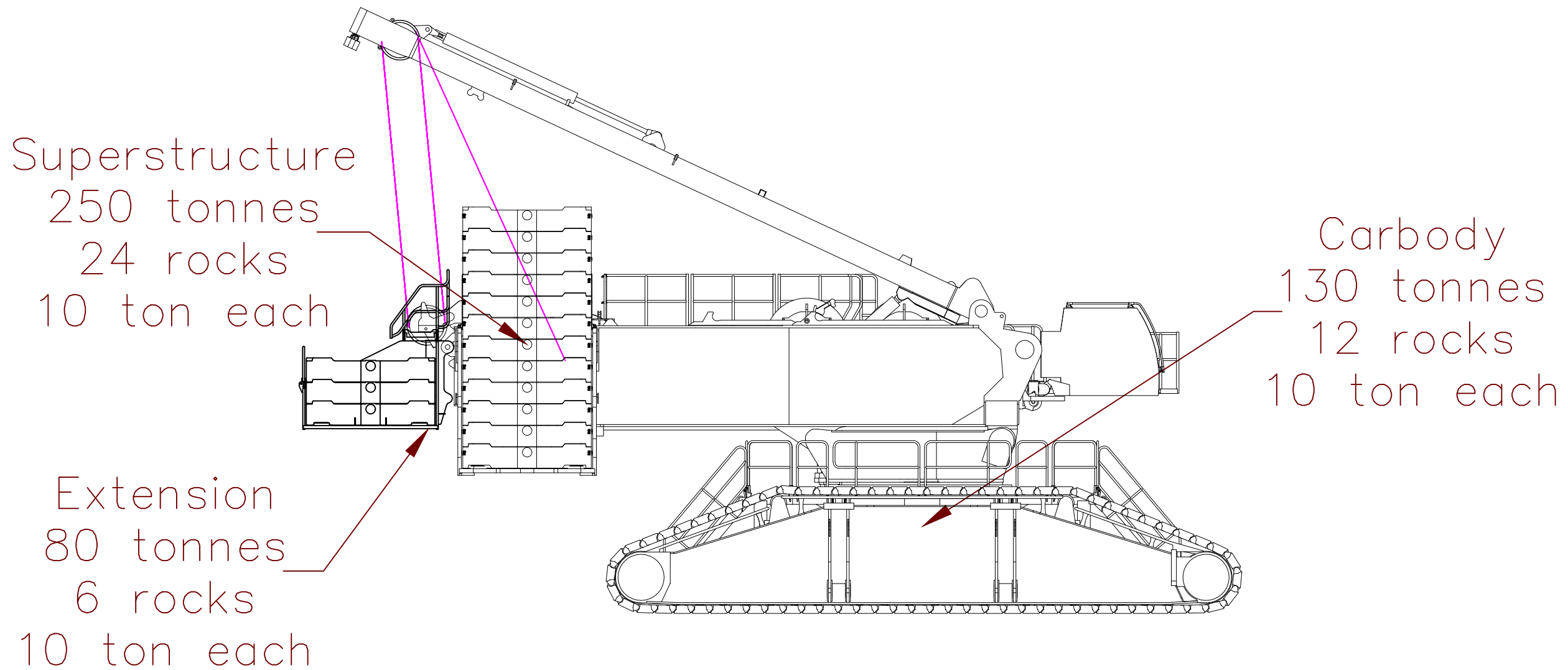
PROJECT:
LR11000 SL8F2 84m+24m

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 - SL8F2 84m + 24m
CREATED(276' + 79') - 20 Deg -11.07.2024 @ 2:56:08 PM
EDITING TIME: 5h30m FILE SIZE: 7018.11Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 11.07.2024 @ 2:36:38 PM
PLOTTED: 11.07.2024 @ 2:36:42 PM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	11.07.2024	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/A423601-18-02/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/A423601-18-02/en

PROJECT:
LR11000 SL8F2 84m+24m

LOCATION: -----

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

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

DRAWING NOTES:
Hook Blocks

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL8F2 84m + 24m

CREATED(276' + 79') - 20 Deg -11.07.2024 12:56:08.dwg

EDITING TIME: 5h30m FILE SIZE: 7018.11Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 11.07.2024 @ 2:36:38 PM

PLOTTED: 11.07.2024 @ 2:36:43 PM

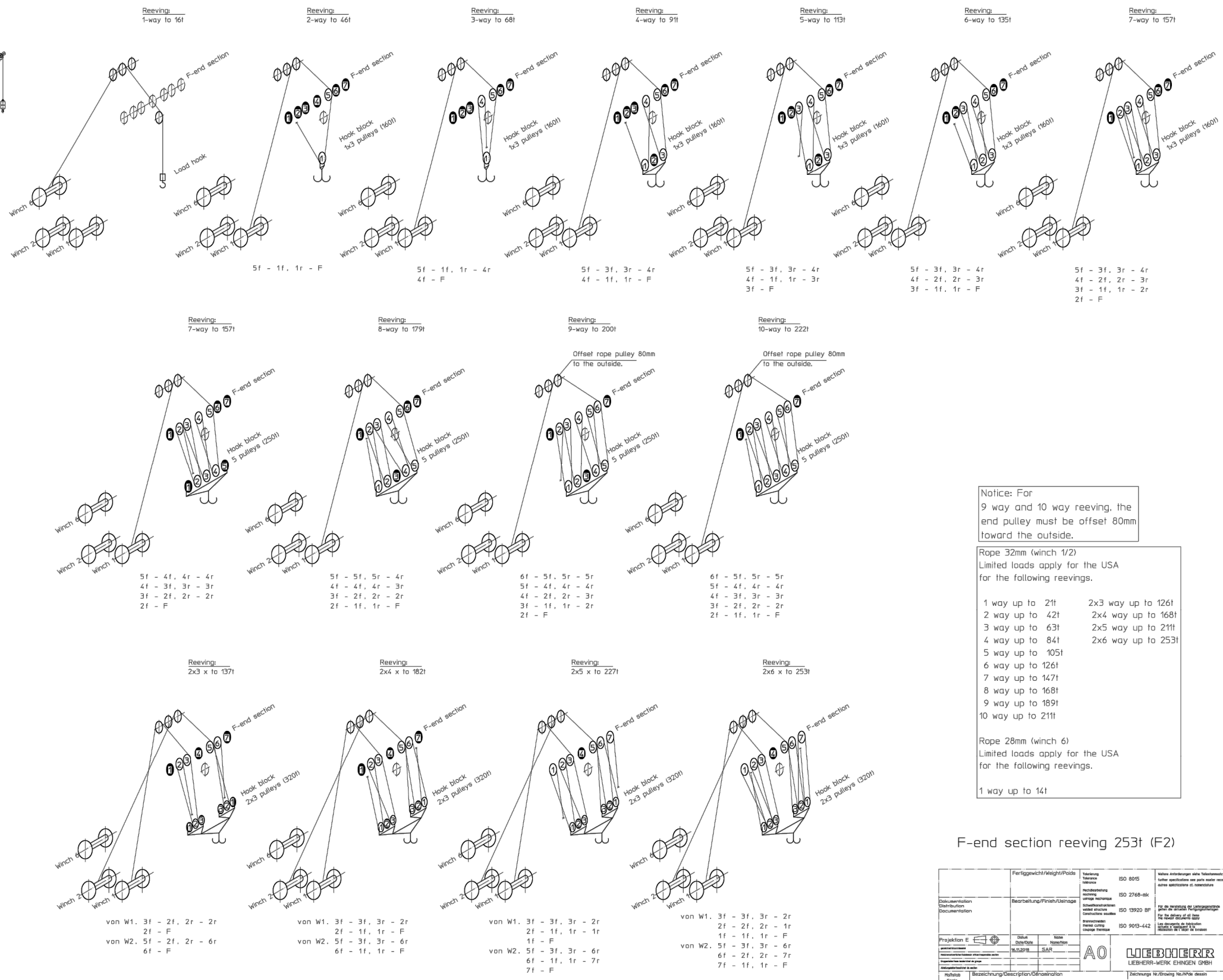
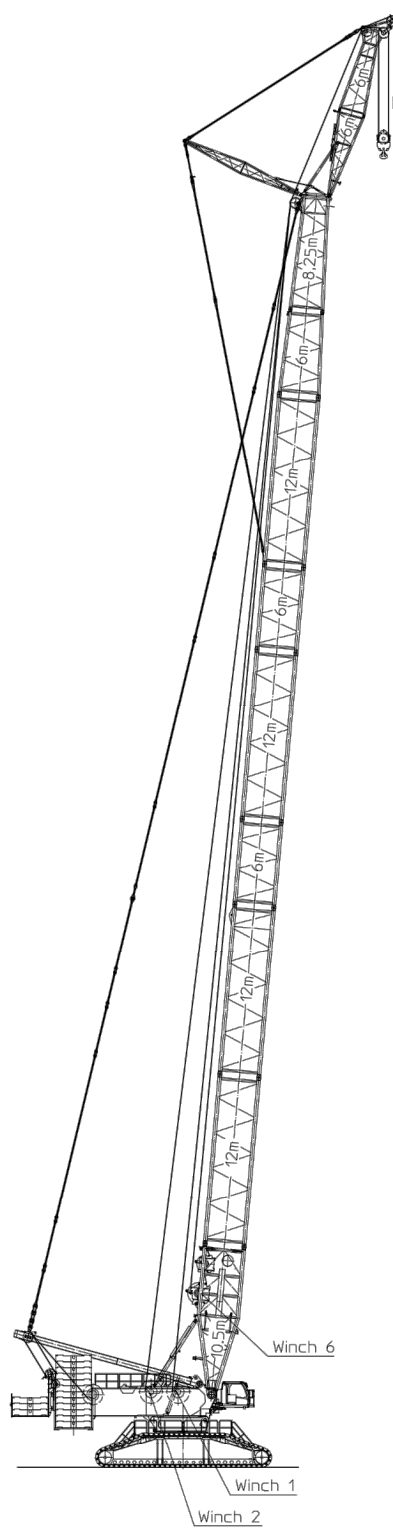
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	11.07.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 005 OF 008





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

Fertiggeviert/Weight/Poids		Technische Zeichnung/Technical Drawing		ISO 8015	Weitere Anforderungen siehe Technische Zeichnung Further specifications see parts master record Other specifications see master record	
Dokumentation/Documentation		Bearbeitung/Finish/Usinage		ISO 2768-MK	ISO 13920 BP	
Projektion E		Skala/Scale		ISO 9013-442	ISO 9013-442	
Beschreibung/Description/Description		REEVING PLAN F2-END SECTION				
Zeichnungs-Nr./Drawing No./No. de dessin		1668-722.00.00.014-000				
Skala/Scale		1:250				
Werk/Nr./Part No.		9804 3912				

PROJECT:
LR11000 SL8F2 84m+24m

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 - SL8F2 84m + 24m
CREATED(276' + 79') - 20 Deg -11.07.2024 2:36:38 PM
EDITING TIME: 5h30m FILE SIZE: 7018.11Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 11.07.2024 @ 2:36:38 PM
PLOTTED: 11.07.2024 @ 2:36:43 PM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	11.07.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 006 OF 008
BUCKNER
HEAVYLIFT CRANES

SL8F2-operation, without auxiliary support
F-connector head aat_235_063_00001_00_001
Page: 5 of 10

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.40/25/20/15
Ground slope: maximum 0.3° F 2318.10

Wind speed:
maximum 12.8m/s: for all boom lengths and wind direction 360°.

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.

SL8 with F2-24 without auxiliary support		Permissible weight [t] of the hook block on the F2-boom for turntables / superstructure extension / central ballast [t]									
		250 / 80 / 130	250 / 0 / 130	250 / 0 / 90	230 / 0 / 90	210 / 0 / 90	190 / 0 / 90	210 / 0 / 50	190 / 0 / 50	170 / 0 / 50	150 / 0 / 50
Main boom length [m]	SL8-84	10.0	-	-	-	-	-	-	-	-	-
	SL8-90	5.1	-	-	-	-	-	-	-	-	-
	SL8-96	-	-	-	-	-	-	-	-	-	-
	SL8-102	-	-	-	-	-	-	-	-	-	-
	SL8-108	-	-	-	-	-	-	-	-	-	-

- Hook block weight to maximum 20t permissible
- 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/23550-16-02/en

SL8F2-operation, with auxiliary support
F-connector head aat_235_063_00002_00_001
Page: 5 of 10

On crawlers 9.6m x 9.2m x 2.0m System: S 3228.40/25/20/15
Ground slope: maximum 0.3° F 2318.10

Wind speed:
maximum 12.8m/s: for all boom lengths and wind direction 360°.

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.

SL8 with F2-24 with auxiliary support (to the side)		Permissible weight [t] of the hook block on the F2-boom for turntables / superstructure extension / central ballast [t]									
		250 / 80 / 130	250 / 0 / 130	250 / 0 / 90	230 / 0 / 90	210 / 0 / 90	190 / 0 / 90	210 / 0 / 50	190 / 0 / 50	170 / 0 / 50	150 / 0 / 50
Main boom length [m]	SL8-84	•	•	•	•	17	14	14	11	8.6	5.6
	SL8-90	18	16	16	14	12	9.3	9.1	6.3	3.5	-
	SL8-96	12	9.5	9.5	8.4	5.9	3.3	3.1	-	-	-
	SL8-102	7.5	4.3	4.3	3.2	-	-	-	-	-	-
	SL8-108	-	-	-	-	-	-	-	-	-	-

- Hook block weight to maximum 20t permissible
- 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/23550-16-02/en

PROJECT:
LR11000 SL8F2 84m+24m

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 - SL8F2 84m + 24m
CREATED(276' + 79') - 20 Deg -11102022502-5698.dwg
EDITING TIME: 5h30m FILE SIZE: 7018.11Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 11.07.2024 @ 2:36:38 PM
PLOTTED: 11.07.2024 @ 2:36:45 PM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	11.07.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 007 OF 008



