

# BUCKNER

## HEAVYLIFT CRANES

### Build Package – Liebherr LR 11350– CR1502

Contents	
Sheet	Description
001	Title Page
002	Build Sheet
003	Rod Plan
004	CWT Arrangement
005	Hookblock
006	Main Reeving
007	Aux. Reeving
008	Derrick Reeving
009	Erection & Take Down (1)
010	Erection & Take Down (2)
011	Load Charts

**Note:** Crane technician MUST verify all information contained in this document matches what is provided by the manufacturer for the specific crane being used. Contact Andy Moore with questions: andym@bucknerheavylift.com Cell: 713 705 5726

PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavylift.com

DRAWING NOTES:  
Title Page

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)

**PRELIMINARY**

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

SHEET: 001 OF 011

**BUCKNER**  
HEAVYLIFT CRANES

PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ

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AndyM@BucknerHeavyLift.com

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AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Build Sheet

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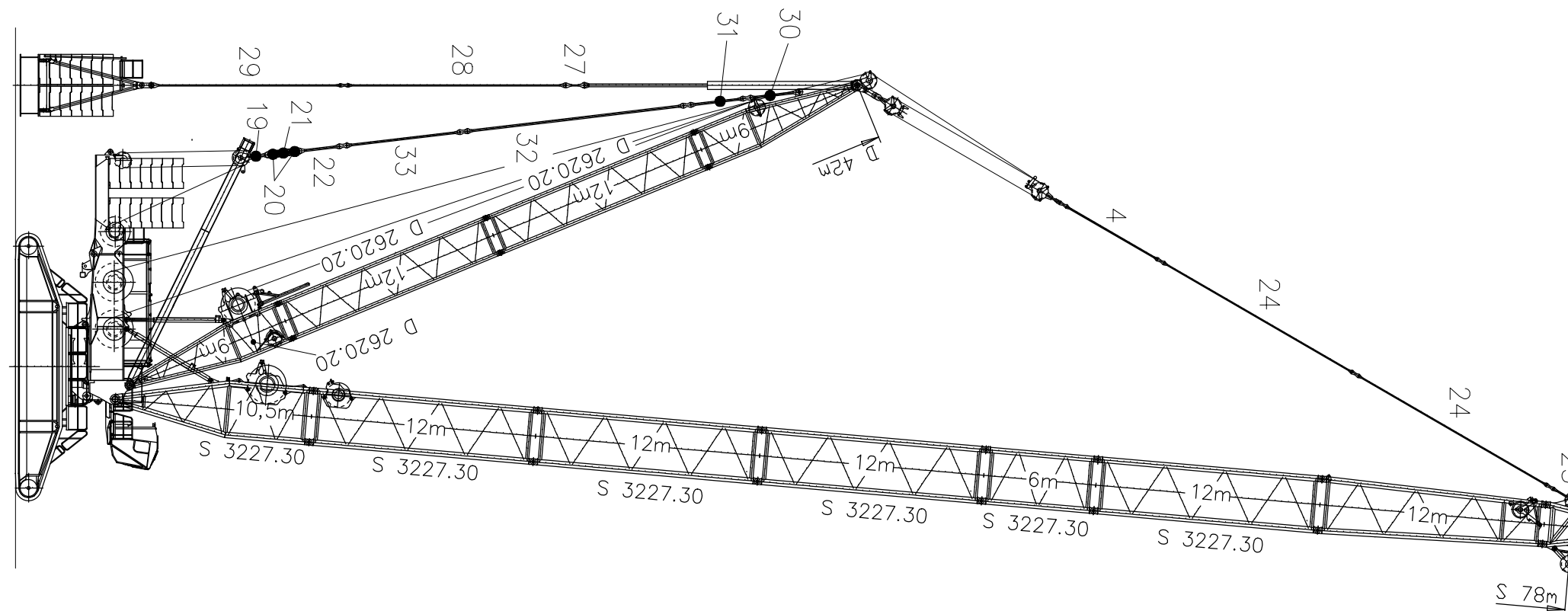
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005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 002 OF 011



Pos. Item	Description	Page
2 963556608	ROD CPL.	2M
3 963715908	ROD CPL.	3M
4 963242508	ROD CPL.	6M
5 963736208	CONNECTING LINK WELDED	
6 975249108	PIN	75.0X365
7 433105008	RETAINING SPRING	6
8 975248708	CHAIN	1315
9 975248808	TENSIONING ROPE	36MM 3.93M
10 975248908	TENSIONING ROPE	36MM 5.42M
11 975249008	ROPE	36MM 8.42M
12 941265308	PIN	RD60X140
13 963742608	CONNECTING LINK WELDED	
14 964004708	CONNECTING LINK WELDED	
15 975270008	PIN	65.0X330
16 975267708	TENSIONING ROPE	54MM 4.02M
17 975270108	TENSIONING ROPE	54MM 5.31M
18 952892308	PIN	RD70X170
19 963297008	ROD CPL.	
20 963392808	BRACKET WITH BOARD	
21 963836408	MEASURING PLATE	4500KN
22 963407708	ROD CPL.	
23 963400108	ROD CPL.	
24 963570408	ROD CPL.	12M
25 963556308	ROD CPL.	
26 963556908	ROD CPL.	4M
27 963649608	ROD CPL.	1M
28 <del>963612608</del>	ROD	50
29 963614208	ROD CPL.	10.5M
30 963647408	ROD CPL.	2.625M
31 963647208	ROD CPL.	3.2M
32 963566908	ROD CPL.	
33 963614108	ROD CPL.	6.875M
36 963665908	ROD CPL.	
37 963661408	ROD CPL.	0.9M
38 963739308	ROD CPL.	0.9M
39 963713608	ROCKER	
40 963746608	ROD	1M
41 963635208	ROD CPL.	
42 963573408	ROD CPL.	4.2M
43 963583608	ROD CPL.	1.0M
44 963472308	MEASURING PLATE	3000KN
45 963903508	ROD CPL.	1.5M
46 963904808	ROD CPL.	2M
47 963906408	ROD CPL.	6M

Pos. Item	Description	Page
48 963905908	ROD CPL.	4M
49 964037408	ROD CPL.	6M
51 963871908	CROSS MEMBER CPL.	
52 975694208	PIN	50.0X320
53 964131108	CONNECTING LINK WELDED	
54 975902508	PIN	65.0X360
56 976001708	TENSIONING ROPE	54MM 3.4M
57 976002508	TENSIONING ROPE	54MM 5.4M
58 976002708	TENSIONING ROPE	54MM 6.9M
59 976002808	TENSIONING ROPE	54MM 8.9M
60 964198708	BRACKET COMPL.	0.4M
62 974891308	PIN	120.0X286
63 428007208	LOCKING RING	115X4
64 966157108	ROD CPL.	
65 <del>967071108</del>	ROD CPL.	9M 53
66 <del>967072108</del>	ROD CPL.	3M 56
67 <del>967057808</del>	ROD CPL.	6M 59
68 <del>967057708</del>	ROD CPL.	6M 62
69 <del>968909308</del>	PULL ROD	3.0 M 65
1000 986340608	RODS / PULL RODS	074820

PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ  
BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com  
LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Rod Plan

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)



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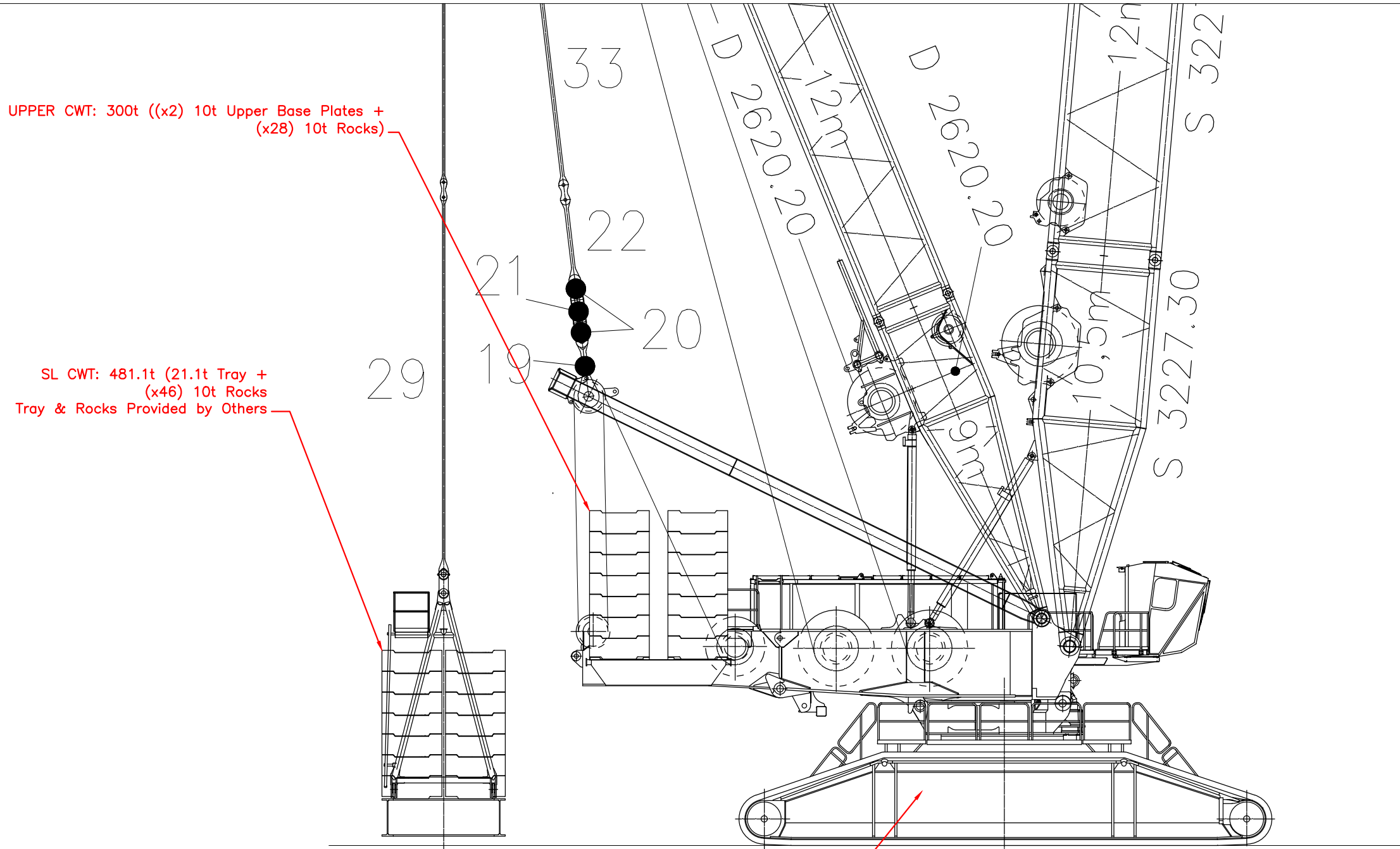
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004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 003 OF 011





UPPER CWT: 300t ((x2) 10t Upper Base Plates + (x28) 10t Rocks)

SL CWT: 481.1t (21.1t Tray + (x46) 10t Rocks Tray & Rocks Provided by Others)

CARBODY CWT: 0t

PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E. AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E. AndyM@BucknerHeavylift.com

DRAWING NOTES:  
CWT Arrangement

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
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003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 004 OF 011



Aux. Hook Block (Winch 6)	
Hook Block 200DM (3 Sheave) 38mmØ	
Parts of Line	3
Reeving Cap. (EN 13000)	202 800 lb
Block Wt.	7 700 lb

**1.30 Boom nose 62 t**

See illustration 28.

Weight	Width
1.3 t	1.1 m

**1.31 Boom nose 120 t**

See illustration 29.

Weight	Width
3.8 t	2.3 m

**3-Parts Min.**  
**Using Either 62t or**  
**120t Boom Nose**  
**Use Winch 6**

Main Hook Block (Winch 1 & 2)	
Hook Block 1350DMZ (2 x 8 Sheave) 38mmØ	
Parts of Line	28
Reeving Cap. (EN 13000)	1 532 900 lb
Block Wt.	(W/x6 Chk Wt.) 61 700 lbs

**28-Parts**  
**Use Winch1 & 2 in**  
**Parallel Operation**

PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Hookblock

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)

**PRELIMINARY**

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

SHEET: 005 OF 011



PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Main Reeving

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)

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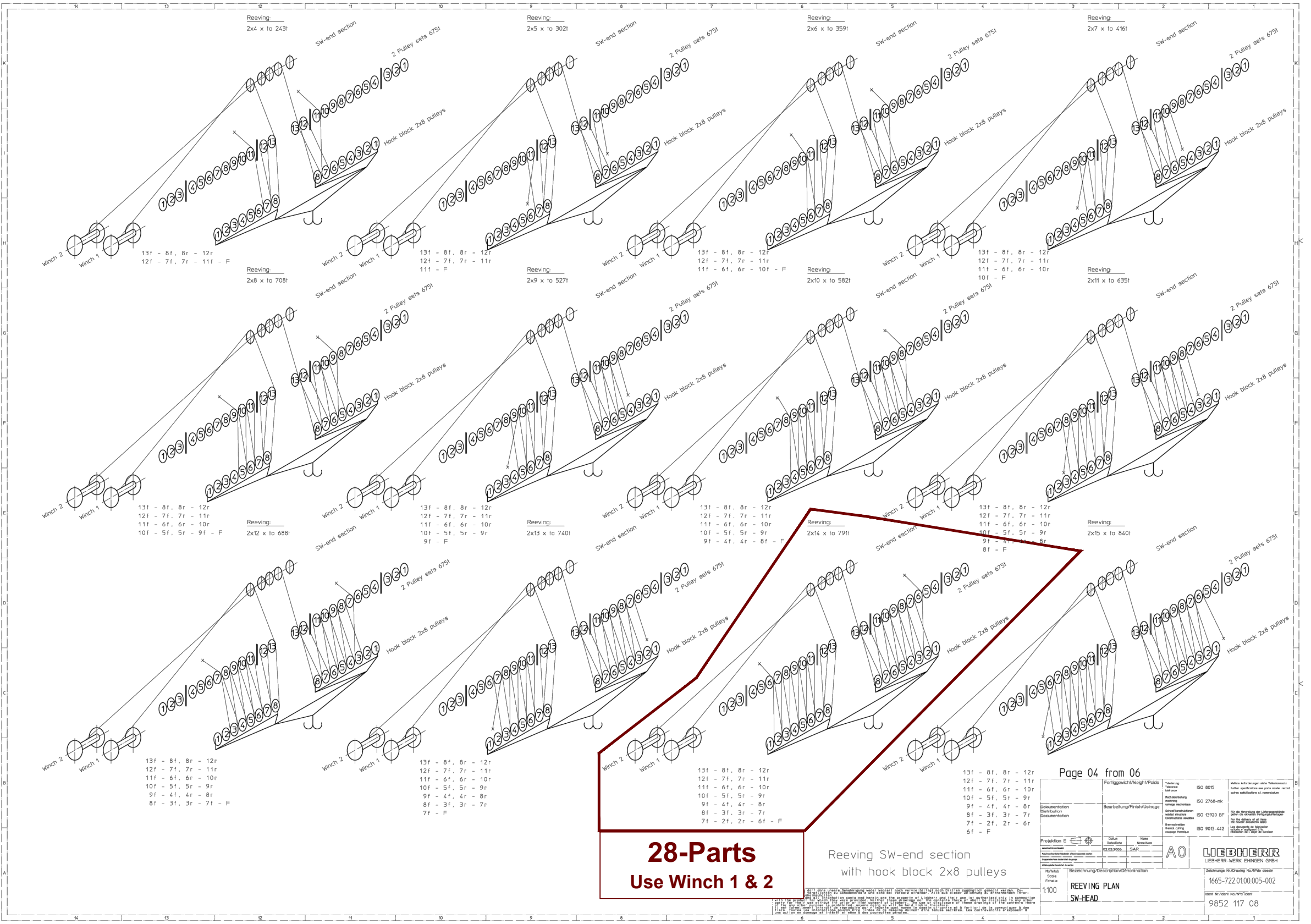
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001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 006 OF 011



**28-Parts  
Use Winch 1 & 2**

Reeving SW-end section  
with hook block 2x8 pulleys

Page 04 from 06

Projektion E	Scale	1:100
Bezeichnung/Description/Dimension	REEVING PLAN	SW-HEAD
DATE	23.07.2024	
BY	AO	
CHECKED		
DATE		
BY		
CHECKED		
DATE		
BY		

LEIBHERR  
LEIBHERR-WERK EHINGEN GMBH  
1665-722.01.00.005-002  
9852 117 08

PROJECT: LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Aux. Reeving

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)

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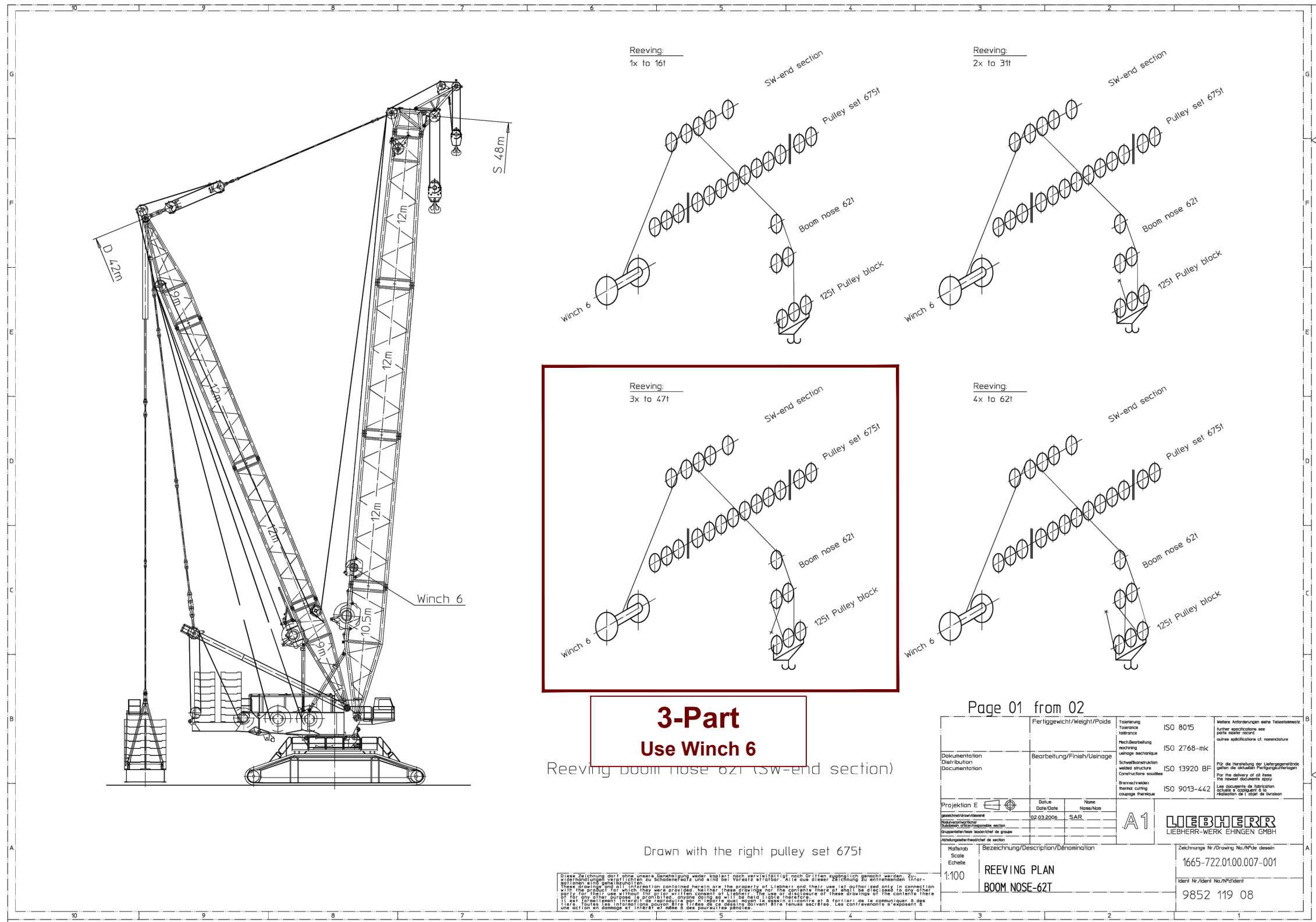
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006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 007 OF 011

**BUCKNER**  
HEAVYLIFT CRANES



**3-Part  
Use Winch 6**

Reeving boom nose 62t (sw-end section)

Drawn with the right pulley set 675t

Page 01 from 02

Documentation Description Documentation	Fertiggewicht/Weight/Poids Tolérance tolerance Hech.Bearbeitung machining usinage Schweißstruktur welded structure Constructions soudées Inventurdaten thermal cutting coupage thermique	ISO 8015 ISO 2768-mk ISO 13920 BF ISO 9013-442	Weitere Anforderungen siehe Teilezeichnung further specifications see parts matter record autres applications cf. nomenclature Für die Herstellung der Liefergegenstände gönnen die Struktur Fertigungserfahrungen for the delivery of all items the relevant documents have Les documents de fabrication appartiennent à l'opérateur à la réalisation de l'étape de livraison
Projektion E Sprockel/Spurweite Substrat/Unterfräse/section Beschreibung/Description Abkürzungen/Abbréviation	Datum Date/Date 02.03.2006	Name Name/Nom SAR	A1 <b>LIEBHERR</b> LIEBHERR-WERK EHINGEN GMBH
Maßstab Scale Echelle 1:100	Bezeichnung/Description/Dénomination <b>REEVING PLAN BOOM NOSE-62T</b>	Zeichnungs-Nr./Drawing No./N°de dessin 1665-722.01.00.007-001	Ident-Nr./Ident No./N°Ident 9852 119 08

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PROJECT:  
LR11350 SDB 78m (256')

LOCATION: XYZ  
BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com  
LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Derrick Reeving

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)

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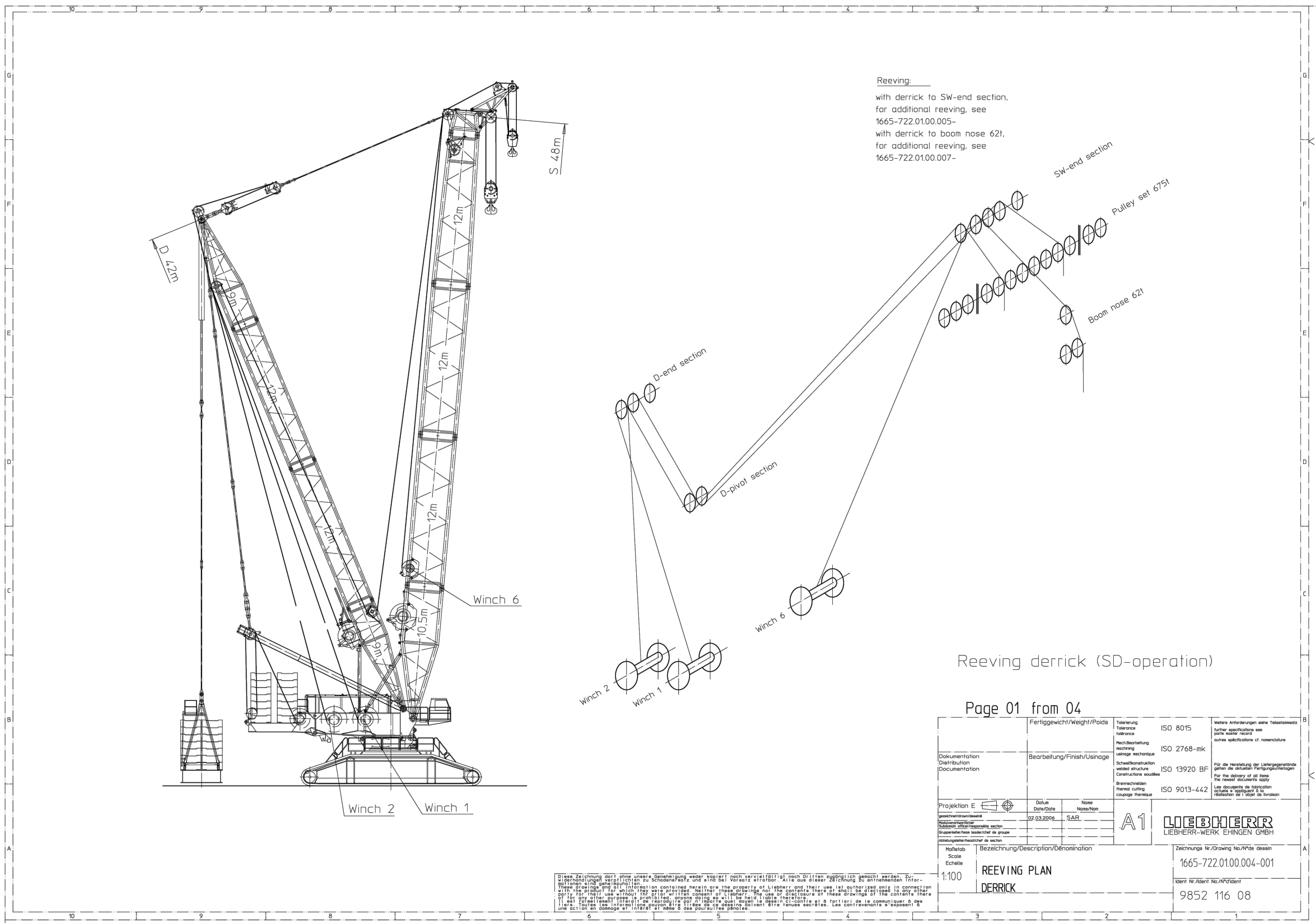
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008	----	----
009	----	----
010	----	----

SHEET: 008 OF 011

**BUCKNER**  
HEAVYLIFT CRANES





**SDB/SDB2 – operation, slewing platform ballast 300 t on crawlers 11.40 m x 11.00 m**

without mechanical auxiliary support

TAB 190 00 029-00

System: S 3227.30  
S 3227.20  
D 2620.20

Page: 1 of 4

SDB	Permissible weight of hook block [t] on main boom																											
	for Derrick ballast [t]																											
	at Derrick radius(DR) 15 m / Derrick ballast radius (DBR) 15 m																											
DR 15 m / DBR 15 m	0	50	100	150	200	250	300	350	400	450	500	550	600															
48	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
54	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
60	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
66	•	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
72	45	•	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
78	30	45	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
84	20	30	40	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
90	10	20	30	40	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)														
96	-	10	20	30	40	•	•	•	•	(•)	(•)	(•)	(•)	(•)														
102	-	5	15	20	30	40	•	•	•	•	(•)	(•)	(•)	(•)														
108	-	-	5	10	20	30	35	45	•	•	(•)	(•)	(•)	(•)														
114	-	-	-	5	10	20	25	35	45	•	•	(•)	(•)	(•)														
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138	-	-	-	-	-	-	-	-	5	10	20	25	30															
144	-	-	-	-	-	-	-	-	-	-	5	10	15															
150	-	-	-	-	-	-	-	-	-	-	-	-	5															

- Hook block weight permissible to 50 t
- (...) Derrick ballast remains without hook block on the ground

LWE/1905-07-02/en

**SDB/SDB2 – operation, slewing platform ballast 300 t on crawlers 11.40 m x 11.00 m**

without mechanical auxiliary support

TAB 190 00 029-00

System: S 3227.30  
S 3227.20  
D 2620.20

Page: 2 of 4

SDB	Permissible weight of hook block [t] on main boom																											
	for Derrick ballast [t]																											
	at Derrick radius(DR) 20 m / Derrick ballast radius (DBR) 20 m																											
DR 20 m / DBR 20 m	0	50	100	150	200	250	300	350	400	450	500	550	600															
48	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
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72	45	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
78	35	•	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
84	20	35	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
90	15	25	40	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
96	5	15	30	40	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
102	-	10	20	30	45	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)														
108	-	5	10	20	30	45	•	•	(•)	(•)	(•)	(•)	(•)	(•)														
114	-	-	-	10	25	35	45	•	•	(•)	(•)	(•)	(•)	(•)														
120	-	-	-	5	15	25	35	40	•	•	(•)	(•)	(•)	(•)														
126	-	-	-	-	5	15	25	35	40	•	•	(•)	(•)	(•)														
132	-	-	-	-	-	5	15	25	30	40	45	•	(•)	(•)														
138	-	-	-	-	-	-	10	15	25	30	35	45	(•)	(•)														
144	-	-	-	-	-	-	-	5	10	20	25	30	40	(•)														
150	-	-	-	-	-	-	-	-	-	10	15	20	30	(•)														

- Hook block weight permissible to 50 t
- (...) Derrick ballast remains without hook block on the ground

LWE/1905-07-02/en

PROJECT:

LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore, P.E.  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:

Erection & Take Down (1)

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)



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Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	07.22.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 009 OF 011



**SDB/SDB2 – operation, slewing platform ballast 300t**  
on crawlers 11.40m x 11.00 m

without mechanical auxiliary support

**TAB 190 00 029-00**

System: S 3227.30  
S 3227.20  
D 2620.20

Page: 3 of 4

SDB2 DR 20 m / DBR 30 m	Permissible weight of hook block [t] on main boom													
	for Derrick ballast [t] at Derrick radius(DR) 20 m / Derrick ballast radius (DBR) 30 m													
	0	50	100	150	200	250	300	350	400	450	500	550	600	
48	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
54	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
60	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
66	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
72	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
78	35	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
84	25	45	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
90	15	35	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
96	5	20	40	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
102	-	15	30	45	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
108	-	10	20	35	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
114	-	5	10	25	40	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
120	-	-	-	15	30	45	•	(•)	(•)	(•)	(•)	(•)	(•)	
126	-	-	-	10	20	35	•	(•)	(•)	(•)	(•)	(•)	(•)	
132	-	-	-	5	10	25	35	•	(•)	(•)	(•)	(•)	(•)	
138	-	-	-	-	5	15	30	40	•	(•)	(•)	(•)	(•)	
144	-	-	-	-	-	10	20	30	40	40	(40)	(40)	(40)	
150	-	-	-	-	-	5	10	20	30	30	(30)	(30)	(30)	

- Hook block weight permissible to 50 t
- (...) Derrick ballast remains without hook block on the ground

LWE/19050-07-02/en

**SDB/SDB2 – operation, slewing platform ballast 300 t**  
on crawlers 11.40 m x 11.00 m

without mechanical auxiliary support

**TAB 190 00 029-00**

System: S 3227.30  
S 3227.20  
D 2620.20

Page: 4 of 4

SDB DR 25 m / DBR 25 m	Permissible weight of hook block [t] on main boom													
	for Derrick ballast [t] at Derrick radius(DR) 25 m / Derrick ballast radius (DBR) 25 m													
	0	50	100	150	200	250	300	350	400	450	500	550	600	
48	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
54	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
60	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
66	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
72	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
78	35	•	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
84	25	40	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
90	15	30	45	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
96	5	20	35	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
102	-	10	25	40	•	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
108	-	5	15	30	40	•	(•)	(•)	(•)	(•)	(•)	(•)	(•)	
114	-	-	10	20	35	45	•	(•)	(•)	(•)	(•)	(•)	(•)	
120	-	-	-	10	20	35	45	•	(•)	(•)	(•)	(•)	(•)	
126	-	-	-	5	15	25	35	45	(•)	(•)	(•)	(•)	(•)	
132	-	-	-	-	5	15	25	35	40	(40)	(40)	(40)	(40)	
138	-	-	-	-	-	10	20	20	20	20	(20)	(20)	(20)	
144	-	-	-	-	-	5	10	15	20	20	20	(20)	(20)	
150	-	-	-	-	-	-	-	5	15	15	15	15	(15)	

- Hook block weight permissible to 50 t
- (...) Derrick ballast remains without hook block on the ground

LWE/19050-07-02/en

PROJECT:

LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E.

AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore, P.E.

AndyM@BucknerHeavyLift.com

DRAWING NOTES:

Erection & Take Down (2)

LR 11350	
Operating Mode	SDB
Main Boom Length	78m (256')
Luffing Jib Length	----
Derrick Length	42m (138')
Superstructure CWT	300t (661k)
Carbody CWT	0
Ballast Tray CWT	481t (1 060k)



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Revisions

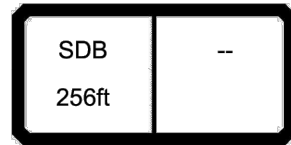
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Rev.	Date	Description
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001	----	----
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003	----	----
004	----	----
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006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 010 OF 011

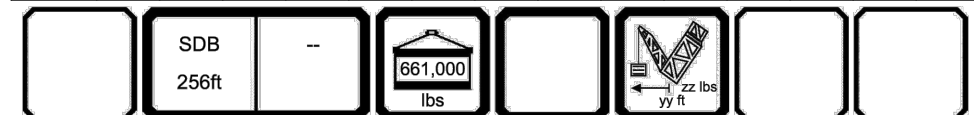


ISO DIN

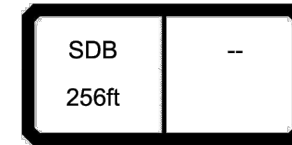


LR 11350 -- 074847 typ1: D=38.0 mm \*\*\* 066 22.01

Table with columns for height (ft) and load capacity (lbs) for various configurations. Includes a crane diagram and a table with 14 columns and 22 rows of data.

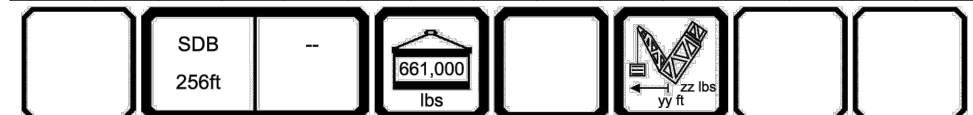


ISO DIN



LR 11350 -- 074847 typ1: D=38.0 mm \*\*\* 066 22.01

Table with columns for height (ft) and load capacity (lbs) for various configurations. Includes a crane diagram and a table with 14 columns and 22 rows of data.



PROJECT:

LR11350 SDB 78m (256')

LOCATION: XYZ

BUCKNER CONTACT: Andy Moore, P.E. AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore, P.E. AndyM@BucknerHeavyLift.com

DRAWING NOTES:

Load Charts

Table with columns for Operating Mode, Main Boom Length, Luffing Jib Length, Derrick Length, Superstructure CWT, Carbody CWT, and Ballast Tray CWT.



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Revisions

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SHEET: 011 OF 011

