

BUCKNER

HEAVYLIFT CRANES

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002	Build Sheet
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005	Hook Block
006	Reeving Plan
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008	Load Chart

PROJECT: LR1500 SL9 72m

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

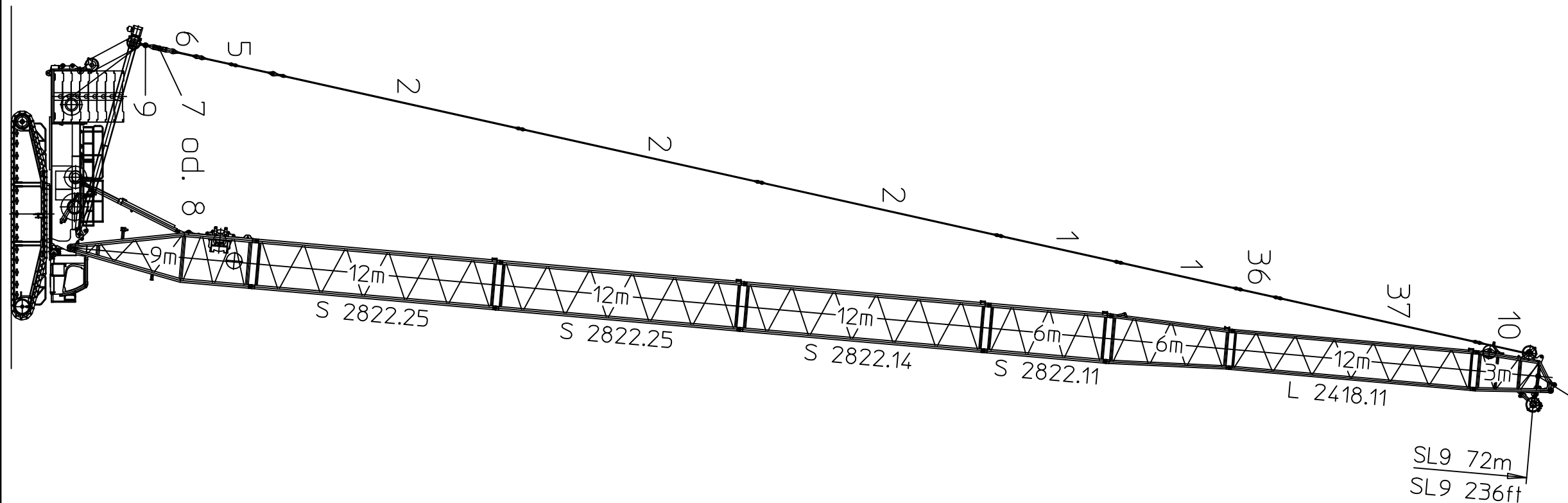
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 Title Page

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S-Kopfstück 400t
 S-head section 400t

PROJECT:
 LR1500 SL9 72m

LOCATION: -----
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 LIFT PLAN BY: Dan Ives, PE
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DRAWING NOTES:
 Build Sheet

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Pos.	Item	Description	Page
1	969815308	PULL ROD	6M
2	969764008	PULL ROD	12M
5	969845008	ROD CPL.	4.1M
6	96002874	PULL ROD	
7	918283908	MEASURING PLATE	2000 KN 80
8	918284008	MEASURING PLATE	2000 KN
9	96002840	DRAW SHACKLE	
10	96002822	PULL ROD	
25	96003783	GUY SHACKLE	ABSPANNSTANGEN
26	96003784	CROSS STRAP	OBEN
27	96003785	CROSS STRAP	MITTE
28	96003786	CONNECTING BRACKET	UNTEN
30	97076059	FIBRE TENSIONING ROPE	28X1.32M
32	97076074	FIBRE TENSIONING ROPE	28X2.25M
36	969862208	PULL ROD	2M
37	969866908	PULL ROD	10M
60	96019093	PULL ROD	3M
1000	98029555	RODS/ PULL RODS LR 1500	F. SL9

PROJECT:
LR1500 SL9 72m

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

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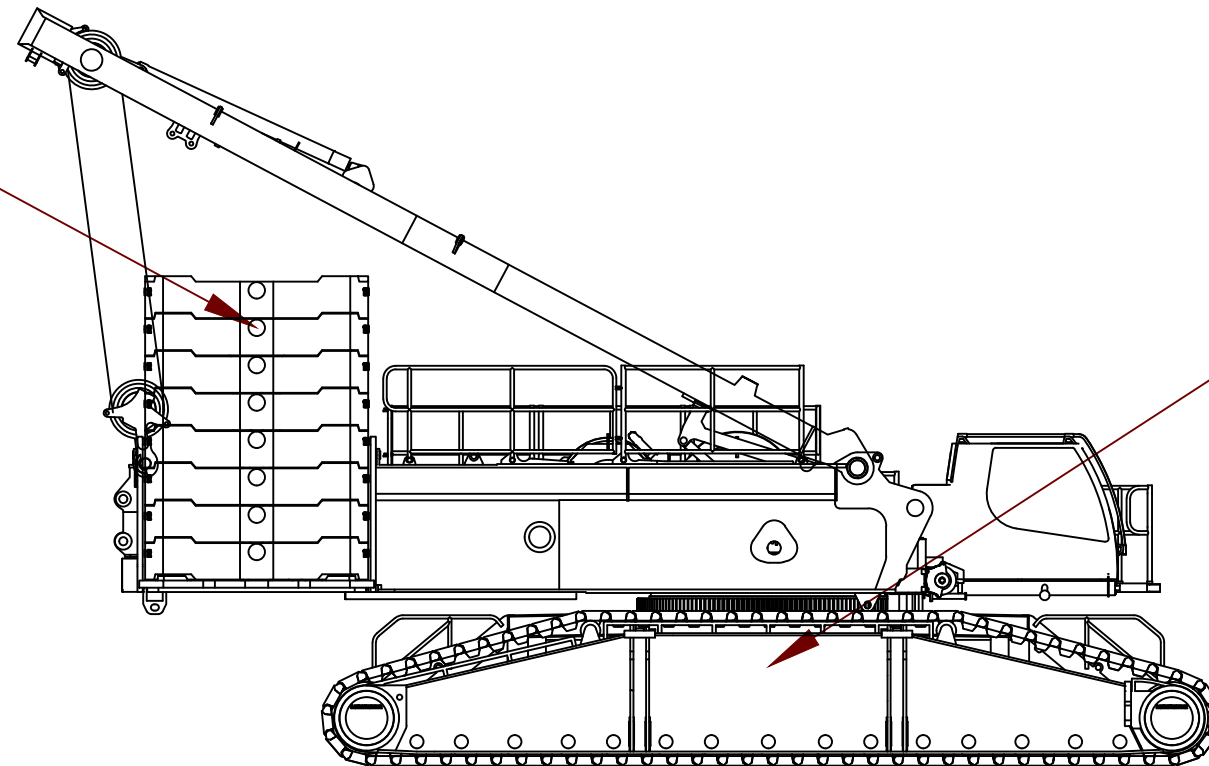
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10.10.2019	074443 (LR_1500)	96019624
LIEBHERR	RODS/ PULL RODS LR 1500 F. SL9	Page: 62

Superstructure
150 tonnes
14 rocks
10 ton each



Carbody
40 tonnes

PROJECT:
LR1500 SL9 72m

LOCATION: -----

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

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

DRAWING NOTES:
Counterweight Configuration

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1 Crane operation with 1 hoist rope F = 180 kN and d = 1 1/8" (28 mm) (EST1)



Note

► The net weight of a hook block can be increased using auxiliary weights. The respective weight is indicated on the side of the auxiliary weights. Possible auxiliary weights are specified in the following table.

Auxiliary weights	
500 kg	1105 lbs

1.1 Load hook 20 E (SWL 20 t (44100 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
18.2 t	40000 lbs	0	1	1.1 t	2430 lbs

1.2 Hook block 63 EM (SWL 63 t (138900 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
54.0 t	118900 lbs	1	3	1.0 t	2210 lbs

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights		2.0 t	4420 lbs
4 auxiliary weights		3.0 t	6630 lbs

1.3 Hook block 125 DM (SWL 125 t (275630 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
123.4 t	272100 lbs	3	7	1.5 t	3310 lbs

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights		2.5 t	5520 lbs
4 auxiliary weights		3.5 t	7730 lbs
6 auxiliary weights		4.5 t	9940 lbs
8 auxiliary weights		5.5 t	12150 lbs

LWE/425201-03-02/en

1.4 Hook block 250 DM (SWL 250 t (551250 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
250.0 t	551250 lbs	7	15	4.0 t	8820 lbs

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights		5.0 t	11030 lbs
4 auxiliary weights		6.0 t	13240 lbs
6 auxiliary weights		7.0 t	15450 lbs

1.5 Hook block 320 DM (SWL 320 t (705600 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
300.6 t	662700 lbs	9	18	4.5 t	9920 lbs

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights		5.5 t	12130 lbs
4 auxiliary weights		6.5 t	14340 lbs
6 auxiliary weights		7.5 t	16550 lbs
8 auxiliary weights		8.5 t	18760 lbs

1.6 Hook block 500 DMZ (SWL 500 t (1102500 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
403.6 t	889800 lbs	13	25	5.5 t	12130 lbs

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights		6.5 t	14340 lbs
4 auxiliary weights		7.5 t	16550 lbs
6 auxiliary weights		8.5 t	18760 lbs
8 auxiliary weights		9.5 t	20970 lbs
10 auxiliary weights		10.5 t	23180 lbs
12 auxiliary weights		11.5 t	25390 lbs

LWE/425201-03-02/en

PROJECT: LR1500 SL9 72m

LOCATION: -----
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DRAWING NOTES:
 Hook Block

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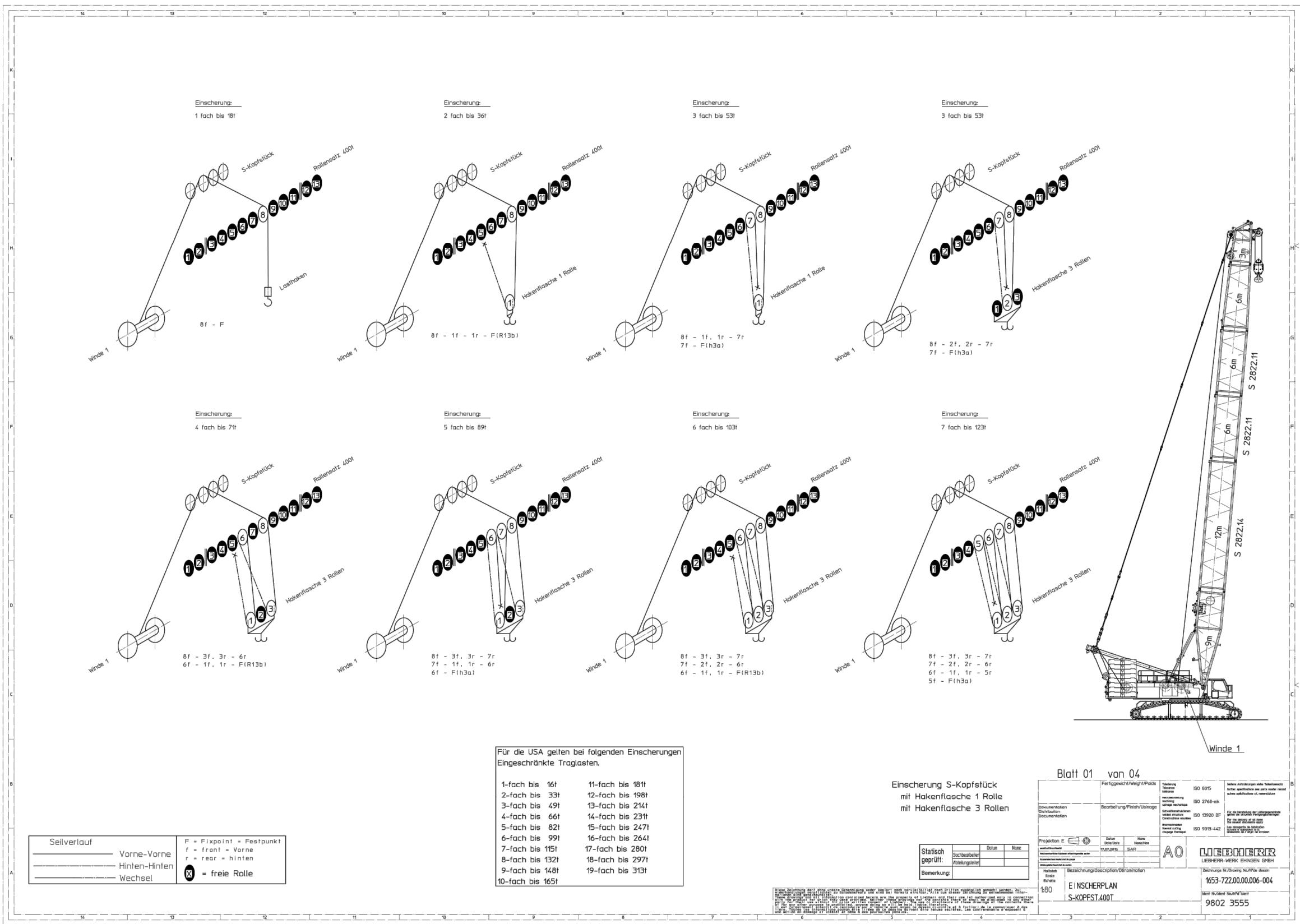
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PROJECT:
LR1500 SL9 72m

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

DRAWING NOTES:
Reeving Plan



Für die USA gelten bei folgenden Einsicherungen Eingeschränkte Traglasten.

1-fach bis 16t	11-fach bis 181t
2-fach bis 33t	12-fach bis 198t
3-fach bis 49t	13-fach bis 214t
4-fach bis 66t	14-fach bis 231t
5-fach bis 82t	15-fach bis 247t
6-fach bis 99t	16-fach bis 264t
7-fach bis 115t	17-fach bis 280t
8-fach bis 132t	18-fach bis 297t
9-fach bis 148t	19-fach bis 313t
10-fach bis 165t	

Seilverlauf
 — Vorne-Vorne
 — Hinten-Hinten
 — Wechsel

F = Fixpunkt = Festpunkt
 f = front = Vorne
 r = rear = hinten
 X = freie Rolle

Einsicherung S-Kopfstück mit Hakenflasche 1 Rolle mit Hakenflasche 3 Rollen

Statisch geprüft:	Sachbearbeiter	Datum	Notiz
Bemerkung:	Abfertiger		

Blatt 01 von 04

Projektion	E	Scale	1:80
Bezeichnung	EINSICHERPLAN S-KOPFST.400T		
Zeichnung Nr.	20240101	Rev.	01
Zeichner	1653-722.00.006-004		
Geprüft	9802 3555		

LEIBHERR
LEIBHERR-MERK EHNEN GMBH

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BUCKNER
 HEAVYLIFT CRANES

SL9 – operation, without / with auxiliary support **aat_252_064_00001_00_000**

SL9: S-end section with roller set 400t Page: 1 of 2

On crawlers 7.9m x 7.6m x 1.5m System: S 2822.14/11/8
 Wind: maximum 11.1m/s L 2418.11
 Ground slope: maximum 0.3°

Operation with boom nose: The operation with boom nose is possible from a "permissible weight of hook block on main boom" of 2t. 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 (0.5t) (incl. hoist rope).

SL9 Without auxiliary support		Permissible weight [t] of hook block on main boom			
		for superstructure / superstructure extension / central ballast [t]			
		130 / 0 / 40	150 / 0 / 40	150 / 27 / 40	170 / 0 / 40
Main boom length [m]	72	2.8	5.3	10	7.9
	75	0.9	3.3	7.8	5.8
	78	-	1.9	6.2	4.3
	81	-	-	4.2	2.4
	84	-	-	2.7	0.9
	87	-	-	0.9	-
	90	-	-	-	-
	93	-	-	-	-
	96	-	-	-	-
	99	-	-	-	-
	102	-	-	-	-

- Hook block weight to 15t 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/25260-06-02/en

SL9 – operation, without / with auxiliary support **aat_252_064_00001_00_000**

SL9: S-end section with roller set 400t Page: 2 of 2

On crawlers 7.9m x 7.6m x 1.5m System: S 2822.14/11/8
 Wind: maximum 11.1m/s L 2418.11
 Ground slope: maximum 0.3°

Operation with boom nose: The operation with boom nose is possible from a "permissible weight of hook block on main boom" of 2t. 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 (0.5t) (incl. hoist rope).

SL9 With auxiliary support (to the side)		Permissible weight [t] of hook block on main boom			
		for superstructure / superstructure extension / central ballast [t]			
		130 / 0 / 40	150 / 0 / 40	150 / 27 / 40	170 / 0 / 40
Main boom length [m]	72	•	•	•	•
	75	14	•	•	•
	78	13	14	•	•
	81	10	12	13	13
	84	9.1	10	11	11
	87	7.0	8.5	9.3	9.3
	90	5.5	6.8	7.8	7.8
	93	3.5	4.9	5.9	5.9
	96	2.6	3.9	4.8	4.9
	99	0.8	2.1	3.1	3.1
	102	-	0.7	1.7	1.8

- Hook block weight to 15t 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/25260-06-02/en

PROJECT:
 LR1500 SL9 72m

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

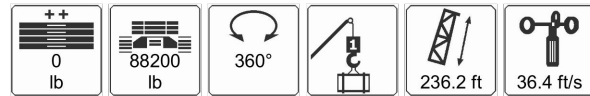
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T252.064.00001
 SL9: SL9-236ft

EN 13000
 074432



401

x1000lb			
ft			
33	333.2	370.1	407.0
34	322.6	358.5	394.4
36	304.0	338.2	372.3
38	286.9	319.4	351.9
40	271.5	302.6	333.7
45	238.5	266.4	294.4
50	211.4	236.7	262.1
55	188.8	212.0	235.2
60	170.1	191.5	212.9
65	154.0	173.8	193.8
70	139.9	158.5	177.1
75	127.6	145.1	162.5
80	117.0	133.4	149.8
85	107.5	123.0	138.4
90	98.9	113.6	128.3
95	91.4	105.2	119.0
100	84.1	97.1	110.1
105	77.0	89.3	101.5
110	70.8	82.4	94.1
115	65.0	76.1	87.2
120	59.8	70.4	81.0
125	55.1	65.3	75.4
130	50.8	60.5	70.3
135	46.8	56.1	65.5
140	43.2	52.2	61.1
145	39.8	48.5	57.1
150	36.7	45.1	53.4
155	33.8	41.9	49.9
160	31.1	38.9	46.7
165	28.7	36.2	43.7
170	26.4	33.6	40.9
175	24.2	31.2	38.3
180	22.2	29.0	35.9
185	20.5	26.9	33.6
190	19.0	24.9	31.4
195	17.6	23.1	29.4
200	15.9	21.5	27.5
205	14.4	20.1	25.8
208	13.6	19.3	24.8
x1000lb	286.6	330.7	374.8
EST1	9x	10x	11x

PROJECT:
 LR1500 SL9 72m

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 Load Chart

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