Information

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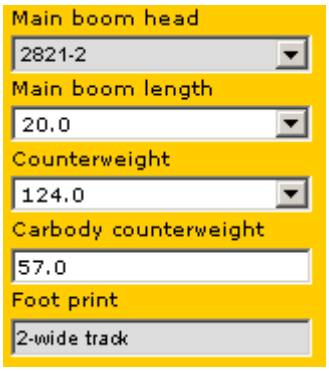
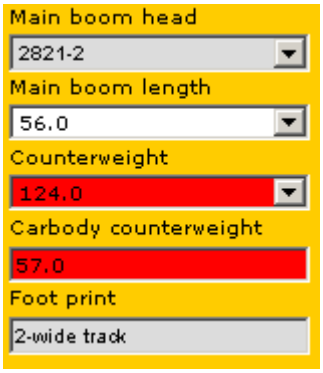
Load Capacity Charts

► To start the application, double click the file **run.bat**.

Note!
Check the following security settings in Internet Explorer:
► Allow the application through the firewall.
► Activate Active Scripting.

Area A	
	► Select language (optional).
	Displays the type
	Displays the version of the load capacity chart
Note! After choosing the boom configuration on the home page, the menu for the specific load chart configuration appears in area A.	
	► Choose configuration. (figures in the grey field are machine-relevant information) (figures in the white field are measurements) The different boom heads (e.g. 2821-2) are pictured in the preface.
Note! If an invalid configuration is selected, subsequent fields change automatically to a permitted value and are highlighted in red. 	

Area B	
Unit length [m] Unit weight [t]	Displays the units for length and weight: [m] and [t] or [ft] and [lbs]
Crane model LR1300 Version 9839151 Modification 70940	Displays the type Displays the version of the load capacity chart Displays the revision level of the load capacity chart

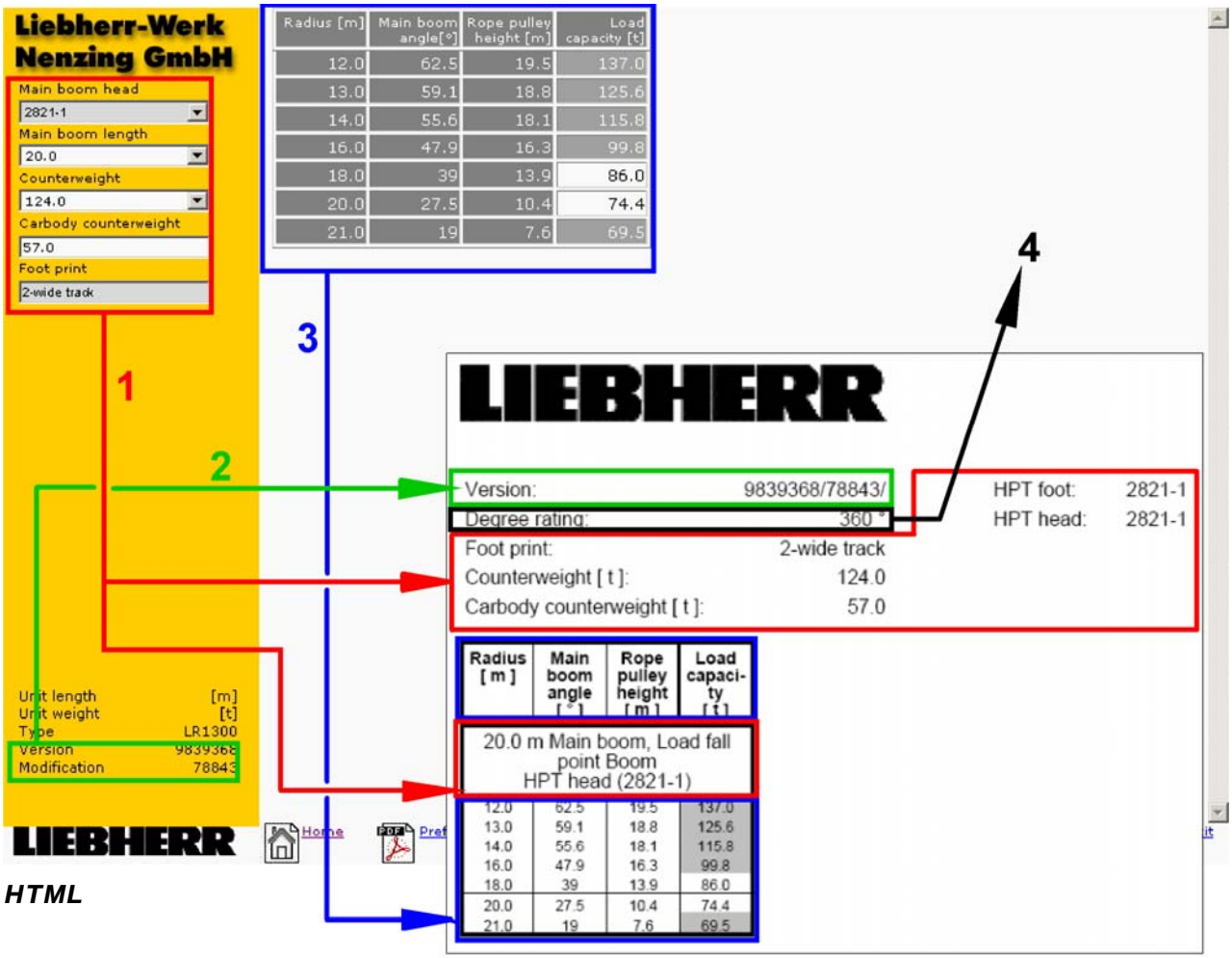
Area C	
	► Click the required boom configuration. **Note!** Hover the mouse over an image to see the name of the boom configuration. ***The results may take a few minutes to load due to the large amount of data involved!***

Area D	
Note! The symbols will only appear if a boom configuration was selected on the home page.	
Symbol	**Function**
Home	**Go to home page** The home page showing boom configurations is displayed.
Preface	**Show preface** The preface for the selected boom configuration is displayed in PDF format and can be printed if required.

 Erectability charts	**Show erectability charts** The erectability charts for the selected boom configuration are displayed in PDF format and can be printed if required.
 all load capacity charts	**Show all load capacity charts** All load capacity charts for the selected boom configuration (incl. preface and erectability charts) are displayed in PDF format and can be printed if required. ***The results may take a few minutes to load due to the large amount of data involved!***
 this load capacity chart	**Show this load capacity chart** The load capacity chart for the specific configuration within a boom configuration is displayed in PDF format and can be printed if required.
 Detail	**Show a detailed view of the load capacity chart** The load capacity chart display is supplemented by the reeving data (optional).
 metric/imperial	**Show metric/imperial units** Toggles the display of all values between SI and US units. The function has no effect on the PDF display (optional).
 exit	**End application**

Comparative display of load capacity chart in HTML and PDF formats

The "main boom" configuration is used as an example.



HTML

PDF

1 The configuration selected in the left-hand menu appears in the header in the PDF file or in the table header.

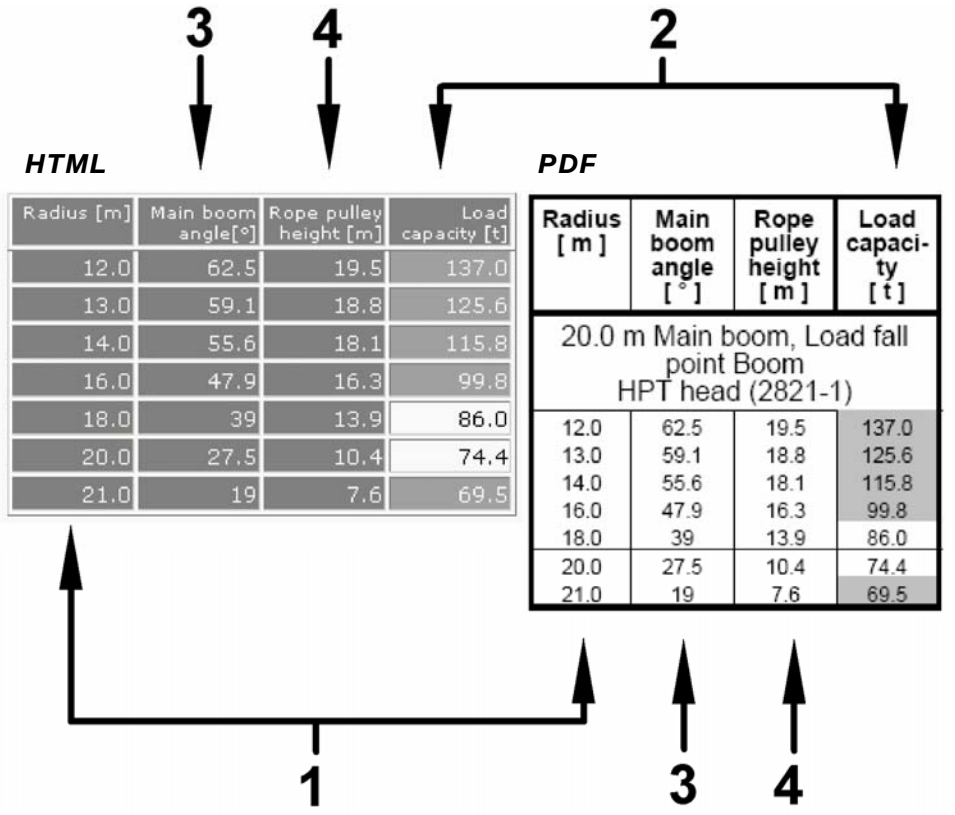
2 The version and the revision level of the load capacity chart appear in the header in the PDF file.

3 The table appears in a similar format in the PDF file.

4 The load capacity chart is valid for a degree rating of 360°.

Layout of the load capacity chart in an HTML file and as a PDF

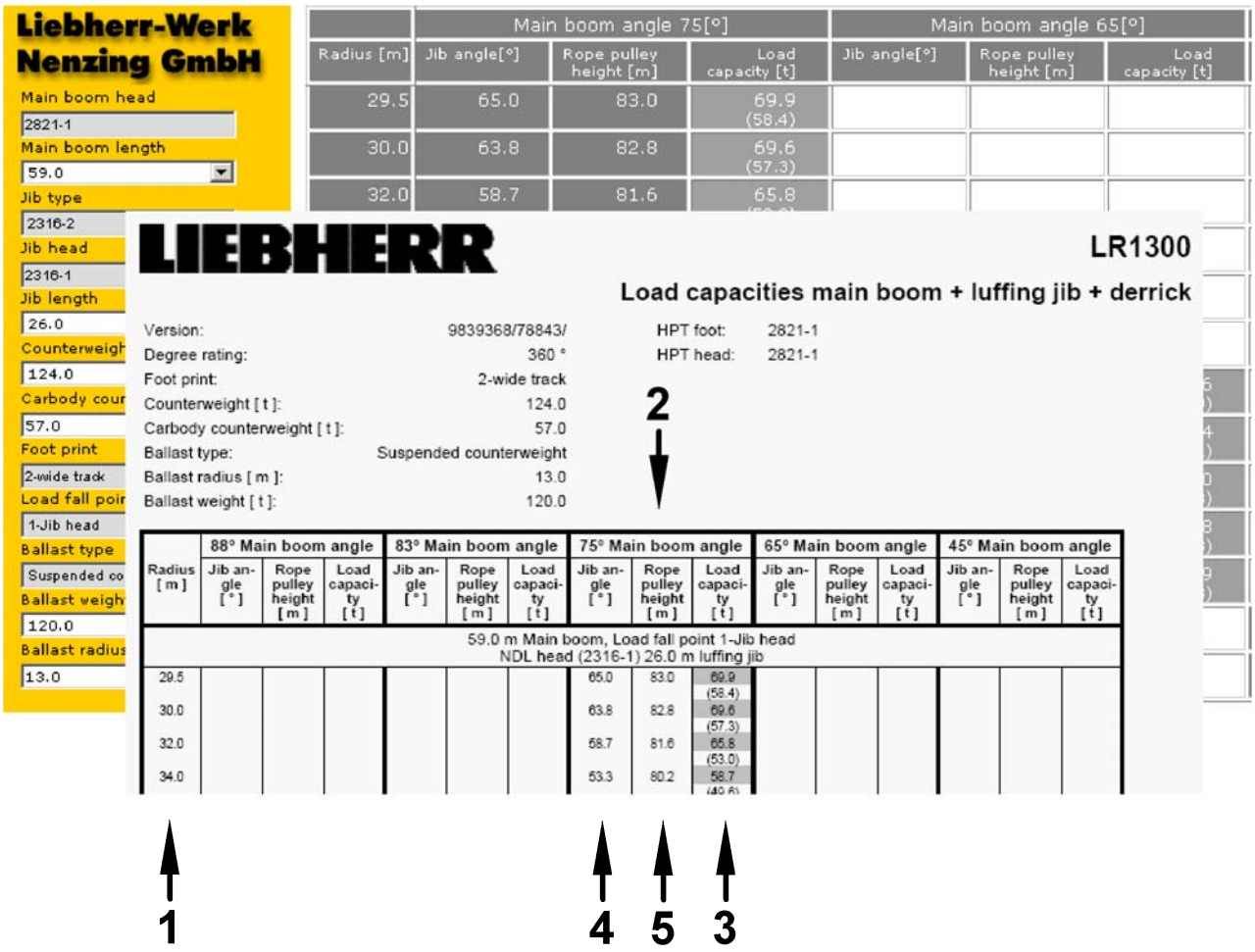
The "main boom" configuration is used as an example.



The load capacity chart is based on the radius (outreach) **1**. For each radius (outreach) the corresponding maximum permitted lifting capacity **2** can be seen in the rightmost column. From the radius (outreach) result the corresponding main boom angle **3** and rope pulley height (vertical lift) **4**.

The maximum permitted load capacities highlighted in grey **2** are limited by the structure itself.
The maximum permitted load capacities highlighted in white **2** are limited by the tilting moment.

The following example illustrates the layout of the table with a boom configuration of "Main boom + luffing jib + derrick".



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Main boom head: 2821-1
Main boom length: 59.0
Jib type: 2316-2
Jib head: 2316-1
Jib length: 26.0
Counterweigh: 124.0
Carbody cour: 57.0
Foot print: 2-wide track
Load fall poir: 1-Jib head
Ballast type: Suspended co
Ballast weigh: 120.0
Ballast radius: 13.0

	Main boom angle 75[°]			Main boom angle 65[°]		
Radius [m]	Jib angle[°]	Rope pulley height [m]	Load capacity [t]	Jib angle[°]	Rope pulley height [m]	Load capacity [t]
29.5	65.0	83.0	69.9 (58.4)			
30.0	63.8	82.8	69.6 (57.3)			
32.0	58.7	81.6	65.8			

LIEBHERR

LR1300

Load capacities main boom + luffing jib + derrick

Version:	9839368/78843/	HPT foot:	2821-1
Degree rating:	360 °	HPT head:	2821-1
Foot print:	2-wide track		
Counterweight [t]:	124.0		
Carbody counterweight [t]:	57.0		
Ballast type:	Suspended counterweight		
Ballast radius [m]:	13.0		
Ballast weight [t]:	120.0		

2

Radius [m]	88° Main boom angle			83° Main boom angle			75° Main boom angle			65° Main boom angle			45° Main boom angle		
	Jib angle [°]	Rope pulley height [m]	Load capacity [t]	Jib angle [°]	Rope pulley height [m]	Load capacity [t]	Jib angle [°]	Rope pulley height [m]	Load capacity [t]	Jib angle [°]	Rope pulley height [m]	Load capacity [t]	Jib angle [°]	Rope pulley height [m]	Load capacity [t]
59.0 m Main boom, Load fall point 1-Jib head NDL head (2316-1) 26.0 m luffing jib															
29.5							65.0	83.0	69.9 (58.4)						
30.0							63.8	82.8	69.6 (57.3)						
32.0							58.7	81.6	65.8 (53.0)						
34.0							53.3	80.2	58.7						

1 4 5 3

The load capacity chart is based on the radius **1**. Locate the column with the relevant main boom angle **2.** For each radius (outreach) and main boom angle the corresponding maximum permitted load capacity **3** can be seen in the right column. From the radius (outreach) and the main boom angle result the corresponding jib angle **4** and rope pulley height (vertical lift) **5**.

By switching to load fall point 2-main boom head, the structure of the table changes:
*) Instead of the jib angle **4** the main boom angle is shown.
*) Instead of the main boom angle **2** the offset is shown. The offset is the difference between the main boom angle and jib angle.

The load capacities in brackets are the minimum load capacities (SWLmin) at which the suspended counterweight lifts from the ground when the load is taken up.