

EN

HS 8300.2

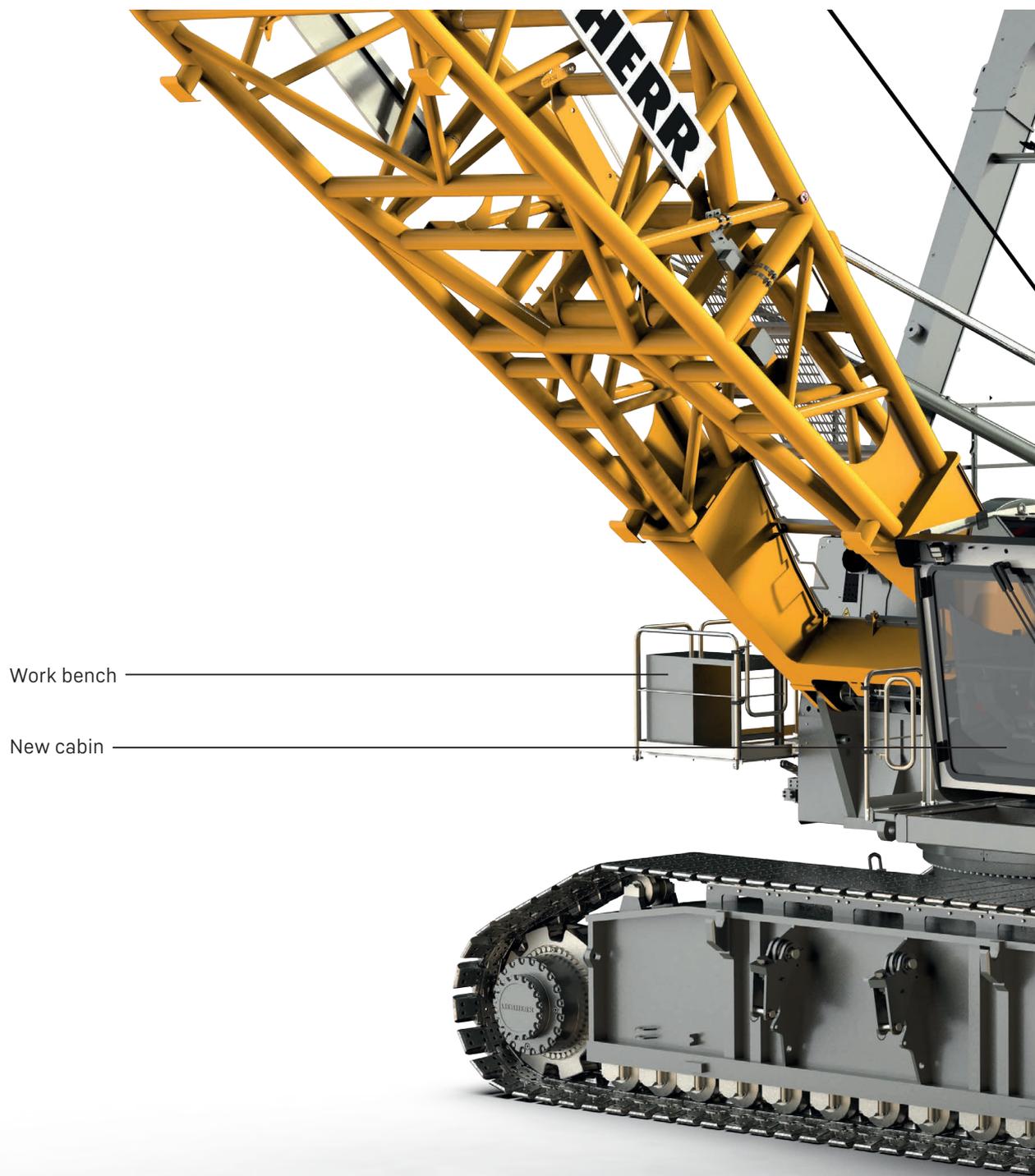
HS 8008.02.03
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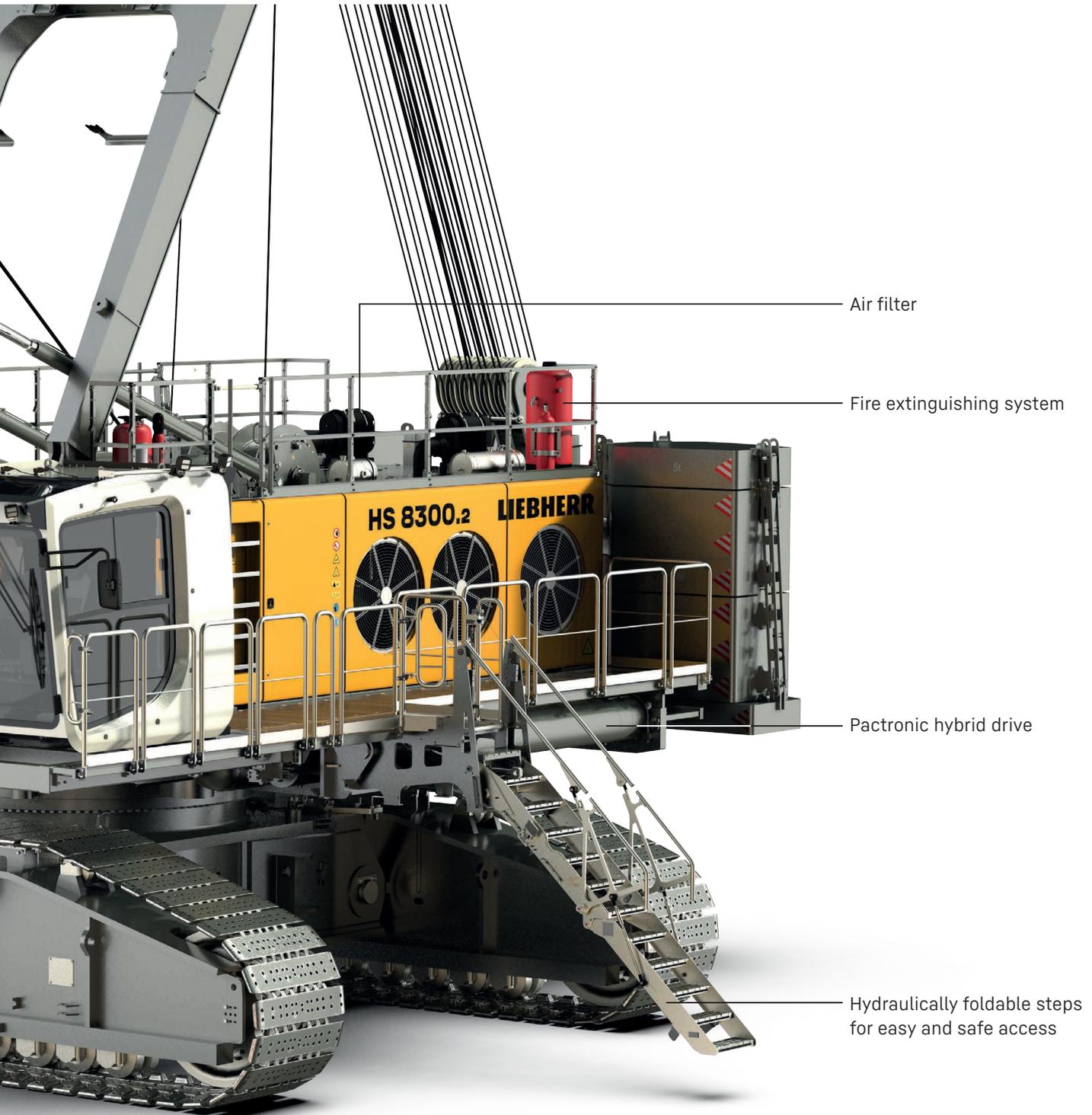
LIEBHERR

Construction machines



Concept and characteristics







The newly developed cabin combines operator comfort with easy handling.

Air conditioning combined with an air-suspended seat offers an ideal workplace for the operator.

- Completely new cabin design focusing on ergonomics and operating comfort
- Improved soundproofing
- Orthopaedic seat, heatable, coolable and ventilated
- Individually adjustable monitors
- Integrated cool box for storage of provisions
- Charger for mobile devices
- Front window made of safety glass
- Heated outside mirror
- Trainer seat



Gear oil level warning
 The new warning allows the operator to check the gear oil levels of both main winches, the swing drive and the luffing winch. This facilitates daily maintenance of the machine.

Example



Gear oil level warning of winch 1 lights up green: gear oil level of winch 1 is sufficient.

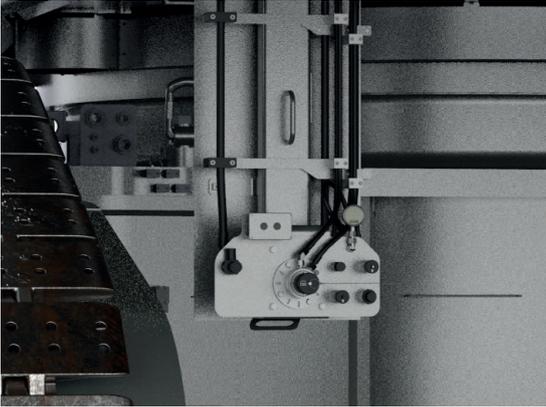


Gear oil level warning of winch 1 lights up yellow after ten seconds: fill gear oil for winch 1.



Ground Pressure Visualization





Central service station

- Hydraulic oil refill
- Engine oil refill and drainage
- Splitter box and swing gearbox oil exchange
- Attachment/swing ring bearing grease barrel refilling with filters
- Fast fuel refilling line



Machine access

- Designed for safe access to the machine upperstructure via:
- Perforated steps and platform with railings
 - Platforms with slip-resistant surfaces
 - 45° access system

Technical description



Ground pressure

Ground pressure	1.85 kg/cm ²
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Operating weight

Composition of operating weight	basic machine with HD undercarriage, 2 main winches 500 kN including wire ropes, 20 m main boom, consisting of A-frame, boom foot (10 m) and boom head (10 m), 78.6 t rear counterweight, 1200 mm track pads, 300 t hook block
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Total weight	approx. 352 t
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Equipment

Main boom (2724.32)	max. 68 m
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Characteristics

modular designed equipment for lifting, dragline or grab operation for dragline operation, a rotating and movable fairlead is fitted minimized rope angle to drum resulting in lower rope wear
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Diesel engine

Power rating according to ISO 9249	750 kW (1005 hp) at 1700rpm
Engine type	Liebherr D 9512 A7-04
Fuel tank capacity	1840l with continuous level indicator and reserve warning
AdBlue tank capacity	220l with continuous level indicator and reserve warning
Exhaust certification	EPA/CARB Tier 4f and EU 2016/1628 Stage V



Noise measurement data and vibration

Noise emission	according to 2000/14/EC directive	
Emission sound pressure level L_{PA}	60 dB(A)	(in the cabin)
Guaranteed sound power level L_{WA}	110 dB(A)	(of the machine)



Hydraulic system

Hydraulic pumps	variable pumps in closed and open circuits supplying oil only when needed (flow control on demand)
Hydraulic oil tank capacity	2800l
Max. working pressure	350 bar
Max. power at the connection plate	350 bar = 460 kW for external appliances
Max. power at undercarriage	250 bar = 310 kW for external appliances
Hydraulic oil	electronic monitoring of all filters use of synthetic environmentally friendly oil
Hydraulic retrofit kits for attachments	ready-made customized hydraulic retrofit kits are available e.g. powering casing oscillators, VM vibrators, hydraulic grabs



Control

Control system	includes all control and monitoring functions, designed to withstand extreme environmental conditions and heavy construction tasks
Display	high resolution monitor in the operator's cabin, clear display of complete machine operating data, warnings and failure indications in the required language
Operation	several movements can be performed simultaneously thanks to electro-hydraulic proportional control, all categories of loads can be positioned with utmost precision
Options	PDE*: Process data recording LiTU: Liebherr Telematics Unit Litronic Grab Matic (dredging assistance system)



Crawlers

Drive system	with fixed axial piston hydraulic motors	
Crawler side frames	maintenance-free, with hydraulic chain tensioning device	
Brake	hydraulically released, spring-loaded multi-disc holding brake	
Drive speed	1 st gear	0.36 km/h
	2 nd gear	0.70 km/h
	3 rd gear	1.40 km/h
Flat track pads	width 1200 mm	
Flat track pads option	width 1500 mm	



Swing gear

Drive system	4x swing drives (standard) with axial piston hydraulic motors, planetary gearbox, pinion
Swing ring	roller bearing with external teeth
Brake	hydraulically released, spring-loaded multi-disc holding brake
Swing speed	0-3.0 rpm continuously variable, selector for 3 speed ranges to increase swing precision
Lubrication system	automatic central lubrication system reduces maintenance requirements and increases service life
Option	display of swing angle



Winches

Main winches	pressure controlled, variable flow hydraulic motors for the drag and hoist winches, full utilisation of engine power as the winch speed is automatically adjusted to suit the respective line pull free fall: clutch and braking functions are provided by the service brake (low wear and maintenance-free multi-disc brake in compact design)	
Winch options	Standard	70 t winch
Line pull (nominal load)	500 kN	687 kN
Rope diameter	46 mm	50 mm
Drum diameter	1100 mm	1160 mm
Rope speed	0-125 m/min	0-110 m/min
Rope capacity in the 1 st layer	49.8 m*	48.9 m*
Rope capacity in 4 layers	292.6 m*	*effective length
	only dragline	
Options		
Tagline winch	100 kN with free fall	

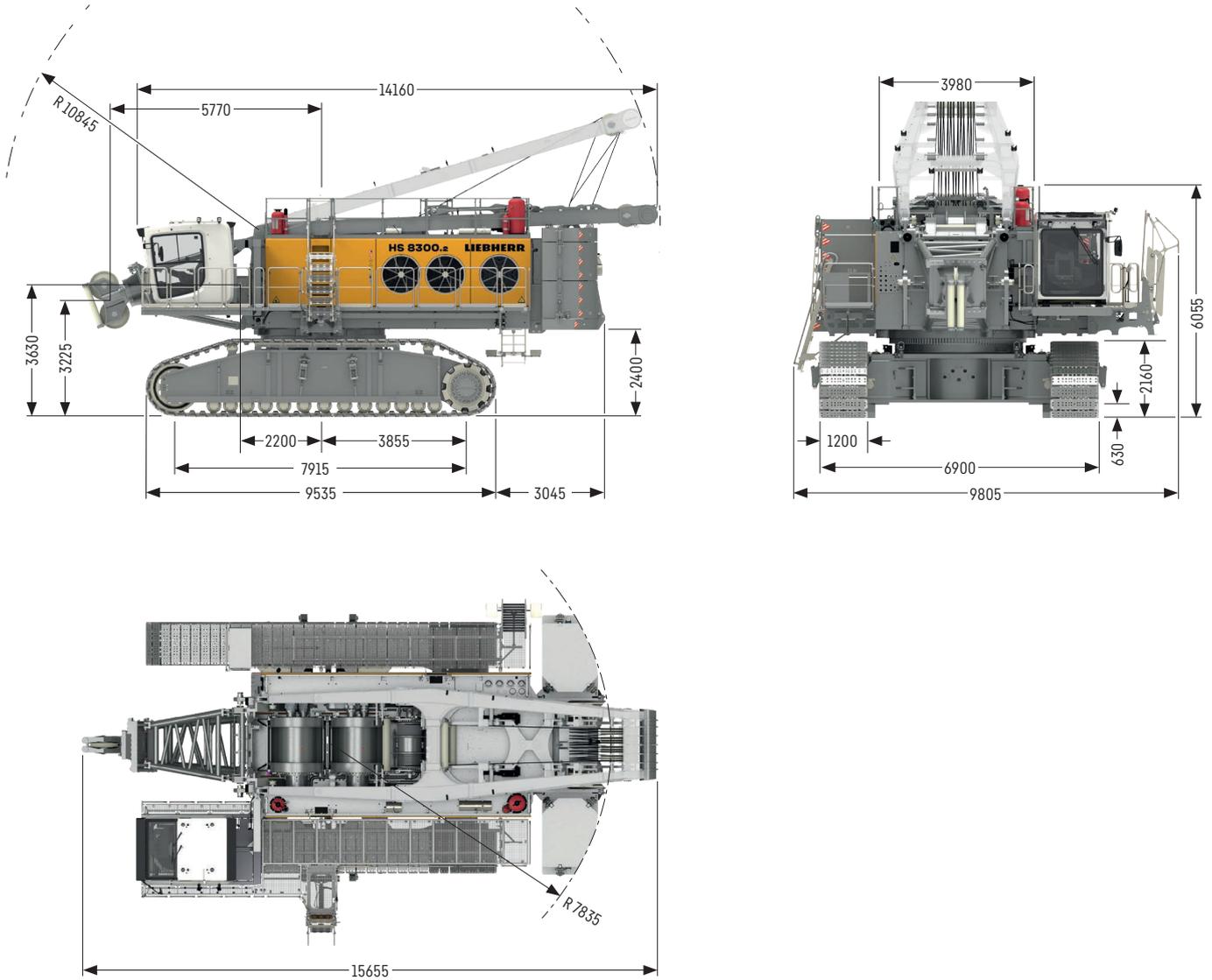


Boom winch

Line pull	150 kN
Rope diameter	24 mm
Boom luffing	15-84° in 130 s

Dimensions

Basic machine with undercarriage



Remarks

- Liebherr cable excavator HS 8008.02.03
- Designed according to EN 474-1 and EN 474-12.
- Machine standing on firm, horizontal ground.
- The weight of the lifting device (pulley block, hoist ropes, shackles etc.) must be deducted from the load capacity.
- Additional equipment on boom (e.g. walkways) must be deducted from the lifting capacity.
- For max. wind speed please refer to load chart in operator's cab or manual.
- Working radii are measured from centre of swing and under load.
- The load capacities are valid for 360 degrees of swing.
- The last digits of the given dimensions are rounded to 0 and 5 and may differ from the actual dimensions.
- Weights may vary depending on the delivered configuration of the machine, the filling level of the tanks as well as generally valid tolerances.
- The figures in this brochure may include options which are not within the standard scope of supply of the machine.

Pactronic hybrid drive

Powerful, energy-efficient hybrid drive

The new HS 8300.2 is fitted with the Pactronic® system developed by Liebherr. This innovative hybrid drive based on hydraulics offers both economic and ecological advantages. Storing and subsequent regeneration of surplus power allows to increase turnover and to significantly lower fuel consumption. The proven technology of the hydraulic accumulator ensures low maintenance requirements and maximum reliability. The decreased energy consumption considerably lowers emissions and thus improves environmental compatibility.

Pactronic® – Lowering mode

- A secondary energy source is added to the drive system.
- The accumulator is charged by regenerating the reserve power while lowering the load.
- The additional surplus power to the primary energy source is used for charging.

Pactronic® – Hoisting mode

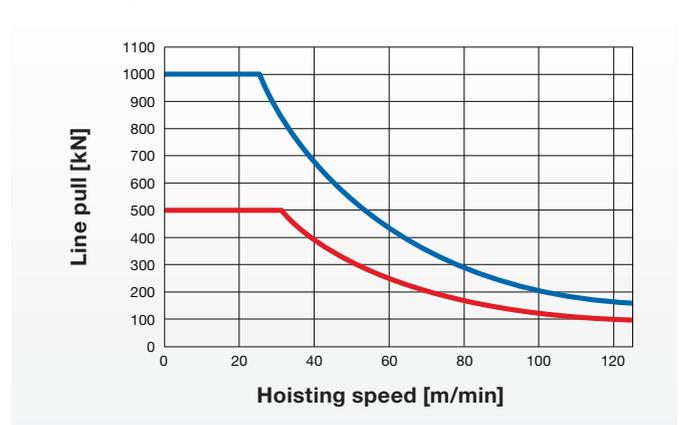
- Stored energy is transferred to the system when the machine requires peak power for hoisting.
- The total hoisting power is the sum of the conventional hydrostatic power and the secondary energy from the accumulator.

Key advantages Pactronic®

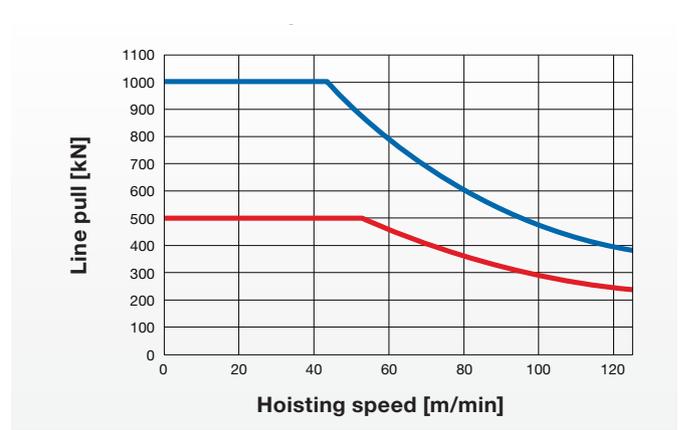
- 750 kW diesel engine combined with Pactronic® allows to achieve a system power comparable to a conventional drive system with 1250 kW
- Effective hoisting power of 800 kW
- Reduced fuel consumption resulting in less CO₂ emission
- Lower noise emission
- Increased hoisting power
- Increased lowering power
- Higher turnover with identical prime mover

Machine class	300t
Engine power Tier 4i according to EPA/CARB	750 kW
System power with Pactronic®	1250 kW
Winches	500 kN / 687 kN
Boom – lifting operation	68 m
Boom – grab operation	max. 56 m

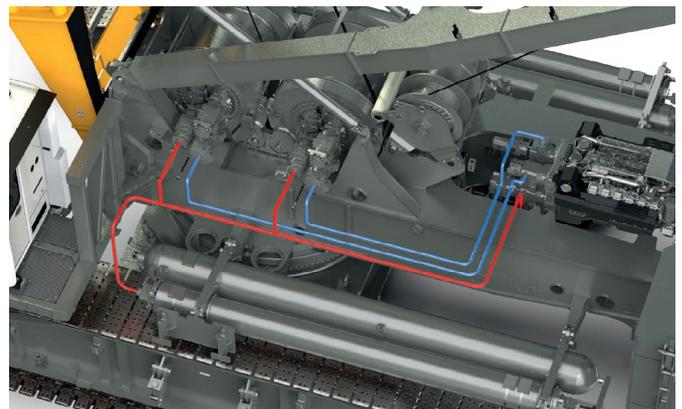
Winch diagramm without Pactronic®



Winch diagramm with Pactronic®



- 2-winch operation
- 1-winch operation



Grab operations

Mechanical clamshell



Hydraulic clamshell



Mechanical clamshell pedestal mounted



Grab versions

Load chart mechanical clamshell*

Capacities in [t]

**	Boom length [m]													
	20		23		26		29		32		35		38	
	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
7	50.0	70.0	50.0	70.0	50.0	70.0								
8	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
9	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
10	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
11	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
12	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
13	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
14	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
15	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
16	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
17	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
18	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
19	50.0	65.4	50.0	65.7	50.0	65.9	50.0	65.8	50.0	65.9	50.0	65.7	50.0	65.6
20	50.0	60.8	50.0	61.1	50.0	61.4	50.0	61.3	50.0	61.4	50.0	61.2	50.0	61.0
21	50.0	56.6	50.0	57.0	50.0	57.3	50.0	57.2	50.0	57.4	50.0	57.2	50.0	57.0
22	50.0	52.7	50.0	53.3	50.0	53.7	50.0	53.6	50.0	53.8	50.0	53.6	50.0	53.4
23			50.0	50.0	50.0	50.4	50.0	50.3	50.0	50.5	50.0	50.3	50.0	50.2
24			46.9	46.9	47.4	47.4	47.4	47.4	47.6	47.6	47.4	47.4	47.3	47.2
25			44.0	44.0	44.7	44.6	44.7	44.6	44.9	44.9	44.7	44.7	44.6	44.5
26					42.1	42.1	42.2	42.1	42.4	42.4	42.3	42.2	42.1	42.1
27					39.7	39.7	39.9	39.8	40.2	40.1	40.0	40.0	39.9	39.8
28					36.8	37.4	37.7	37.7	38.1	38.0	37.9	37.9	37.8	37.8
29							35.7	35.7	36.1	36.1	36.0	36.0	35.9	35.9
30							33.9	33.8	34.3	34.3	34.2	34.2	34.1	34.1
31							31.6	32.0	32.6	32.6	32.5	32.5	32.4	32.4
32									31.0	31.0	30.9	30.9	30.9	30.9
33									29.5	29.4	29.5	29.4	29.4	29.4
34											28.1	28.0	28.1	28.0
35											26.7	26.7	26.8	26.7
36											25.5	25.4	25.5	25.5
37													24.4	24.4
38													23.3	23.2
39													22.2	22.2
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* Rear counterweight 88.9 t

** winches

TLT 13187641

TLT 13189388

Capacities in [t]

	Boom length [m]											
	41		44		47		50		53		56	
	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
7												
8												
9	50.0	70.0	50.0	70.0	50.0	70.0						
10	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
11	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
12	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
13	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
14	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
15	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
16	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
17	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
18	50.0	70.0	50.0	70.0	50.0	70.0	50.0	69.8	50.0	69.5	50.0	69.3
19	50.0	65.3	50.0	65.2	50.0	64.9	50.0	64.6	50.0	64.4	50.0	64.1
20	50.0	60.8	50.0	60.6	50.0	60.4	50.0	60.1	50.0	59.8	50.0	59.6
21	50.0	56.8	50.0	56.6	50.0	56.3	50.0	56.1	50.0	55.8	50.0	55.6
22	50.0	53.1	50.0	53.0	50.0	52.7	50.0	52.5	50.0	52.2	50.0	51.9
23	49.9	49.9	49.8	49.8	49.5	49.5	49.3	49.2	49.0	48.9	48.7	48.7
24	47.0	47.0	46.9	46.8	46.6	46.6	46.3	46.3	46.0	46.0	45.8	45.8
25	44.3	44.3	44.2	44.2	43.9	43.9	43.7	43.6	43.3	43.3	43.1	43.1
26	41.9	41.8	41.8	41.7	41.5	41.4	41.2	41.2	40.9	40.9	40.7	40.6
27	39.6	39.6	39.5	39.5	39.2	39.2	39.0	38.9	38.7	38.6	38.4	38.4
28	37.5	37.5	37.5	37.4	37.2	37.1	36.9	36.9	36.6	36.5	36.4	36.3
29	35.6	35.6	35.5	35.5	35.2	35.2	35.0	35.0	34.7	34.6	34.5	34.4
30	33.8	33.8	33.8	33.7	33.5	33.4	33.2	33.2	32.9	32.9	32.7	32.7
31	32.2	32.2	32.1	32.1	31.8	31.8	31.6	31.6	31.3	31.2	31.1	31.0
32	30.6	30.6	30.6	30.6	30.3	30.3	30.1	30.0	29.7	29.7	29.5	29.5
33	29.2	29.2	29.2	29.1	28.9	28.8	28.6	28.6	28.3	28.3	28.1	28.1
34	27.8	27.8	27.8	27.8	27.5	27.5	27.3	27.2	26.9	26.9	26.8	26.7
35	26.6	26.5	26.5	26.5	26.2	26.2	26.0	26.0	25.7	25.6	25.5	25.5
36	25.3	25.3	25.3	25.3	25.1	25.0	24.8	24.8	24.5	24.5	24.3	24.3
37	24.2	24.2	24.2	24.2	23.9	23.9	23.7	23.7	23.4	23.3	23.2	23.2
38	23.1	23.1	23.1	23.1	22.9	22.8	22.7	22.6	22.3	22.3	22.2	22.1
39	22.1	22.1	22.1	22.1	21.9	21.8	21.7	21.6	21.3	21.3	21.2	21.1
40	21.1	21.1	21.2	21.1	20.9	20.9	20.7	20.7	20.4	20.3	20.2	20.2
41	20.1	20.1	20.2	20.2	20.0	20.0	19.8	19.8	19.5	19.4	19.3	19.3
42	19.2	19.2	19.4	19.3	19.1	19.1	18.9	18.9	18.6	18.6	18.5	18.4
43			18.5	18.5	18.3	18.3	18.1	18.1	17.8	17.8	17.7	17.6
44			17.7	17.7	17.5	17.5	17.3	17.3	17.0	17.0	16.9	16.9
45			16.9	16.9	16.7	16.7	16.6	16.6	16.3	16.2	16.2	16.1
46					16.0	16.0	15.9	15.8	15.6	15.5	15.4	15.4
47					15.3	15.3	15.2	15.1	14.9	14.9	14.8	14.7
48					14.6	14.5	14.5	14.5	14.2	14.2	14.1	14.1
49							13.9	13.8	13.6	13.6	13.5	13.5
50							13.2	13.2	13.0	13.0	12.9	12.9
51							12.6	12.6	12.4	12.4	12.3	12.3
52									11.8	11.8	11.8	11.7
53									11.3	11.2	11.2	11.2
54									10.7	10.7	10.7	10.7
55											10.2	10.2
56											9.7	9.7
57											9.2	9.2

* Rear counterweight 88.9 t

** winches

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Load chart hydraulic clamshell*

Capacities in [t]

**	Boom length [m]													
	20		23		26		29		32		35		38	
	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
7	75.8	75.7	75.8	75.7	75.8	75.7								
8	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
9	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
10	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
11	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
12	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
13	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
14	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
15	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
16	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
17	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
18	70.6	70.6	70.9	70.8	71.1	71.0	71.0	70.9	71.1	71.0	70.9	70.8	70.7	70.7
19	65.4	65.4	65.7	65.7	65.9	65.9	65.8	65.8	65.9	65.9	65.8	65.7	65.6	65.6
20	60.8	60.8	61.1	61.1	61.4	61.4	61.3	61.3	61.4	61.4	61.2	61.2	61.1	61.0
21	56.6	56.6	57.1	57.0	57.3	57.3	57.3	57.2	57.4	57.4	57.2	57.2	57.1	57.0
22	52.7	52.7	53.4	53.3	53.7	53.7	53.6	53.6	53.8	53.8	53.6	53.6	53.4	53.4
23			50.0	50.0	50.4	50.4	50.4	50.3	50.5	50.5	50.3	50.3	50.2	50.2
24			46.9	46.9	47.4	47.4	47.4	47.4	47.6	47.6	47.4	47.4	47.3	47.2
25			44.0	44.0	44.7	44.6	44.7	44.6	44.9	44.9	44.7	44.7	44.6	44.5
26					42.1	42.1	42.2	42.1	42.4	42.4	42.3	42.2	42.1	42.1
27					39.7	39.7	39.9	39.8	40.2	40.1	40.0	40.0	39.9	39.8
28					36.8	37.4	37.7	37.7	38.1	38.0	37.9	37.9	37.8	37.8
29							35.7	35.7	36.1	36.1	36.0	36.0	35.9	35.9
30							33.9	33.8	34.3	34.3	34.2	34.2	34.1	34.1
31							31.6	32.0	32.6	32.6	32.5	32.5	32.4	32.4
32									31.0	31.0	30.9	30.9	30.9	30.9
33									29.5	29.4	29.5	29.4	29.4	29.4
34											28.1	28.0	28.1	28.0
35											26.7	26.7	26.8	26.7
36											25.5	25.4	25.5	25.5
37													24.4	24.4
38													23.3	23.2
39													22.2	22.2
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
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53														
54														
55														
56														
57														

* Rear counterweight 88.9 t

** winches

TLT 13187641

TLT 13189388

Capacities in [t]

	Boom length [m]											
	41		44		47		50		53		56	
	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
**												
7												
8												
9	75.8	75.7	75.8	75.7	75.8	75.7						
10	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
11	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
12	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
13	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
14	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
15	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
16	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7	75.8	75.7
17	75.8	75.7	75.8	75.7	75.8	75.7	75.7	75.6	75.3	75.4	74.2	75.1
18	70.5	70.4	70.3	70.3	70.1	70.0	69.8	69.8	69.6	69.5	69.3	69.3
19	65.3	65.3	65.2	65.2	64.9	64.9	64.7	64.6	64.4	64.4	64.2	64.1
20	60.8	60.8	60.7	60.6	60.4	60.4	60.2	60.1	59.9	59.8	59.6	59.6
21	56.8	56.8	56.7	56.6	56.4	56.3	56.1	56.1	55.8	55.8	55.6	55.6
22	53.2	53.1	53.1	53.0	52.8	52.7	52.5	52.5	52.2	52.2	52.0	51.9
23	49.9	49.9	49.8	49.8	49.5	49.5	49.3	49.2	49.0	48.9	48.7	48.7
24	47.0	47.0	46.9	46.8	46.6	46.6	46.3	46.3	46.0	46.0	45.8	45.8
25	44.3	44.3	44.2	44.2	43.9	43.9	43.7	43.6	43.3	43.3	43.1	43.1
26	41.9	41.8	41.8	41.7	41.5	41.4	41.2	41.2	40.9	40.9	40.7	40.6
27	39.6	39.6	39.5	39.5	39.2	39.2	39.0	38.9	38.7	38.6	38.4	38.4
28	37.5	37.5	37.5	37.4	37.2	37.1	36.9	36.9	36.6	36.5	36.4	36.3
29	35.6	35.6	35.5	35.5	35.2	35.2	35.0	35.0	34.7	34.6	34.5	34.4
30	33.8	33.8	33.8	33.7	33.5	33.4	33.2	33.2	32.9	32.9	32.7	32.7
31	32.2	32.2	32.1	32.1	31.8	31.8	31.6	31.6	31.3	31.2	31.1	31.0
32	30.6	30.6	30.6	30.6	30.3	30.3	30.1	30.0	29.7	29.7	29.5	29.5
33	29.2	29.2	29.2	29.1	28.9	28.8	28.6	28.6	28.3	28.3	28.1	28.1
34	27.8	27.8	27.8	27.8	27.5	27.5	27.3	27.2	26.9	26.9	26.8	26.7
35	26.6	26.5	26.5	26.5	26.2	26.2	26.0	26.0	25.7	25.6	25.5	25.5
36	25.3	25.3	25.3	25.3	25.1	25.0	24.8	24.8	24.5	24.5	24.3	24.3
37	24.2	24.2	24.2	24.2	23.9	23.9	23.7	23.7	23.4	23.3	23.2	23.2
38	23.1	23.1	23.1	23.1	22.9	22.8	22.7	22.6	22.3	22.3	22.2	22.1
39	22.1	22.1	22.1	22.1	21.9	21.8	21.7	21.6	21.3	21.3	21.2	21.1
40	21.1	21.1	21.2	21.1	20.9	20.9	20.7	20.7	20.4	20.3	20.2	20.2
41	20.1	20.1	20.2	20.2	20.0	20.0	19.8	19.8	19.5	19.4	19.3	19.3
42	19.2	19.2	19.4	19.3	19.1	19.1	18.9	18.9	18.6	18.6	18.5	18.4
43			18.5	18.5	18.3	18.3	18.1	18.1	17.8	17.8	17.7	17.6
44			17.7	17.7	17.5	17.5	17.3	17.3	17.0	17.0	16.9	16.9
45			16.9	16.9	16.7	16.7	16.6	16.6	16.3	16.2	16.2	16.1
46					16.0	16.0	15.9	15.8	15.6	15.5	15.4	15.4
47					15.3	15.3	15.2	15.1	14.9	14.9	14.8	14.7
48					14.6	14.5	14.5	14.5	14.2	14.2	14.1	14.1
49							13.9	13.8	13.6	13.6	13.5	13.5
50							13.2	13.2	13.0	13.0	12.9	12.9
51							12.6	12.6	12.4	12.4	12.3	12.3
52									11.8	11.8	11.8	11.7
53									11.3	11.2	11.2	11.2
54									10.7	10.7	10.7	10.7
55											10.2	10.2
56											9.7	9.7
57											9.2	9.2

* Rear counterweight 88.9 t

** winches

TLT 13187641

TLT 13189388

Load chart mechanical clamshell pedestal mounted*

Capacities in [t]

**	Boom length [m]													
	20		23		26		29		32		35		38	
	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
7	50.0	70.0	50.0	70.0	50.0	70.0								
8	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
9	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
10	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
11	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
12	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
13	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
14	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
15	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
16	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
17	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
18	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
19	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
20	50.0	67.8	50.0	68.3	50.0	68.6	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
21	50.0	57.0	50.0	63.8	50.0	64.2	50.0	68.4	50.0	68.6	50.0	68.3	50.0	68.1
22			50.0	59.7	50.0	60.2	50.0	64.0	50.0	64.2	50.0	63.9	50.0	63.7
23			50.0	55.9	50.0	56.5	50.0	60.1	50.0	60.3	50.0	60.0	50.0	59.8
24			44.3	47.3	50.0	53.2	50.0	56.5	50.0	56.7	50.0	56.4	50.0	56.2
25					50.0	50.1	50.0	53.2	50.0	53.4	50.0	53.1	50.0	53.0
26					45.9	47.2	50.0	50.1	50.0	50.4	50.0	50.2	50.0	50.0
27					36.8	40.2	47.4	47.3	47.7	47.7	47.5	47.4	47.3	47.2
28							44.8	44.7	45.2	45.1	44.9	44.9	44.8	44.7
29							42.4	42.3	42.8	42.8	42.6	42.6	42.4	42.4
30							38.0	40.0	40.6	40.6	40.4	40.4	40.3	40.2
31							31.6	34.5	38.5	38.5	38.4	38.3	38.3	38.2
32									36.6	36.5	36.5	36.4	36.4	36.3
33									32.4	34.6	34.7	34.6	34.6	34.6
34											33.0	32.9	32.9	32.9
35											30.9	31.3	31.4	31.3
36											27.6	29.8	29.9	29.8
37													28.5	28.4
38													26.6	27.1
39													24.1	25.8
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														

* Rear counterweight 88.9 t

** winch [t]

TLT 13620714

TLT 13613089

Capacities in [t]

	Boom length [m]											
	41		44		47		50		53		56	
	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
7												
8												
9	50.0	70.0	50.0	70.0	50.0	70.0						
10	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
11	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
12	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
13	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
14	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
15	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
16	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
17	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
18	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
19	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0	50.0	70.0
20	50.0	70.0	50.0	70.0	50.0	70.0	50.0	69.1	50.0	67.6	50.0	66.4
21	50.0	67.7	50.0	67.5	50.0	66.4	50.0	65.1	50.0	63.7	50.0	62.5
22	50.0	63.3	50.0	63.2	50.0	62.7	50.0	61.4	50.0	60.1	50.0	59.0
23	50.0	59.4	50.0	59.2	50.0	58.8	50.0	58.1	50.0	56.9	50.0	55.8
24	50.0	55.8	50.0	55.7	50.0	55.3	50.0	54.9	50.0	53.8	50.0	52.9
25	50.0	52.6	50.0	52.4	50.0	52.0	50.0	51.7	50.0	51.1	50.0	50.1
26	49.6	49.6	49.5	49.5	49.1	49.1	48.8	48.7	48.3	48.3	47.3	47.6
27	46.9	46.9	46.8	46.7	46.4	46.3	46.0	46.0	45.6	45.6	44.1	45.2
28	44.4	44.4	44.3	44.2	43.9	43.8	43.5	43.5	42.9	43.0	41.2	42.8
29	42.1	42.0	42.0	41.9	41.6	41.5	41.2	41.2	40.8	40.7	38.6	40.4
30	39.9	39.9	39.8	39.8	39.4	39.4	39.1	39.0	38.6	38.6	36.9	38.3
31	37.9	37.9	37.8	37.8	37.4	37.4	37.1	37.0	36.6	36.6	35.3	36.3
32	36.0	36.0	35.9	35.9	35.5	35.5	35.2	35.2	34.8	34.7	33.9	34.4
33	34.3	34.2	34.2	34.2	33.8	33.8	33.5	33.4	33.0	33.0	32.5	32.7
34	32.6	32.6	32.6	32.5	32.2	32.1	31.8	31.8	31.4	31.3	31.1	31.1
35	31.1	31.0	31.0	31.0	30.6	30.6	30.3	30.3	29.9	29.8	29.6	29.6
36	29.6	29.6	29.6	29.5	29.2	29.1	28.9	28.8	28.4	28.4	28.2	28.1
37	28.2	28.2	28.2	28.2	27.8	27.8	27.5	27.5	27.1	27.0	26.8	26.8
38	26.9	26.8	26.9	26.9	26.5	26.5	26.2	26.2	25.8	25.7	25.5	25.5
39	25.6	25.6	25.7	25.6	25.3	25.3	25.0	25.0	24.6	24.5	24.3	24.3
40	24.4	24.4	24.5	24.5	24.1	24.1	23.9	23.8	23.4	23.4	23.2	23.1
41	23.3	23.2	23.4	23.3	23.0	23.0	22.8	22.7	22.3	22.3	22.1	22.1
42	21.2	22.1	22.3	22.3	22.0	21.9	21.7	21.7	21.3	21.2	21.1	21.0
43			21.3	21.2	21.0	20.9	20.7	20.7	20.3	20.2	20.1	20.0
44			20.3	20.2	20.0	20.0	19.8	19.7	19.3	19.3	19.1	19.1
45			19.0	19.3	19.1	19.0	18.9	18.8	18.4	18.4	18.3	18.2
46					18.2	18.1	18.0	17.9	17.6	17.5	17.4	17.4
47					17.3	17.3	17.1	17.1	16.7	16.7	16.6	16.5
48					16.4	16.4	16.3	16.3	15.9	15.9	15.8	15.7
49							15.5	15.5	15.2	15.1	15.0	15.0
50							14.8	14.7	14.4	14.4	14.3	14.3
51							14.0	14.0	13.7	13.7	13.6	13.6
52									13.0	13.0	12.9	12.9
53									12.3	12.3	12.3	12.2
54									11.6	11.6	11.6	11.6
55											11.0	11.0
56											10.4	10.4
57											9.8	9.7

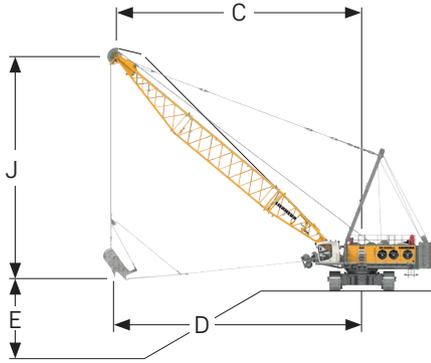
* Rear counterweight 88.9 t

** winch [t]

TLT 13620714

TLT 13613089

Dragline operation



Digging diagramm

C = Radius / dumping radius

D = Max. digging radius = approx. $C + 1/3$ to $1/2 J$

E* = Digging depth = approx. 40-50% of C

J = Height to centre rope pulley boom head

*The depth of cut, casting distance and digging reach may vary considerably depending on digging conditions, design of bucket and operator's skill. Maximum digging depths are attainable under ideal conditions and cannot be guaranteed.

Load chart for dragline operation (dragline boom head)

Capacities in [t]

alpha [°]	Boom length [m]																	
	35						38						41					
	50.0		70.0				50.0		70.0				50.0		70.0			
	C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]
45	27.0	29.0	47.5	27.0	29.0	47.5	29.1	31.1	42.6	29.1	31.1	42.6	31.2	33.3	38.3	31.2	33.3	38.3
40	29.1	26.8	42.8	29.1	26.8	42.7	31.4	28.8	38.3	31.4	28.8	38.3	33.7	30.7	34.3	33.7	30.7	34.3
35	31.0	24.5	39.0	31.0	24.5	39.0	33.5	26.2	34.9	33.5	26.2	34.9	36.0	27.9	31.2	36.0	27.9	31.1
30	32.7	21.9	36.2	32.7	21.9	36.1	35.3	23.4	32.2	35.3	23.4	32.2	37.9	25.0	28.7	37.9	25.0	28.7

* Rear counterweight 88.9 t

** winches

TLT 13640146

Capacities in [t]

alpha [°]	Boom length [m]														
	44				47				50						
	50.0		70.0		50.0		50.0		50.0		50.0				
	C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]
45	33.3	35.4	34.8	33.3	35.4	34.7	35.4	37.5	31.5	37.6	39.6	28.5	37.6	39.6	28.5
40	36.0	32.6	31.0	36.0	32.6	31.0	38.3	34.6	27.9	40.6	36.5	25.2	40.6	36.5	25.2
35	38.4	29.7	28.2	38.4	29.7	28.1	40.9	31.4	25.2	43.3	33.1	22.7	43.3	33.1	22.7
30	40.5	26.5	25.9	40.5	26.5	25.9	43.1	28.0	23.1	45.7	29.4	20.6	45.7	29.4	20.6

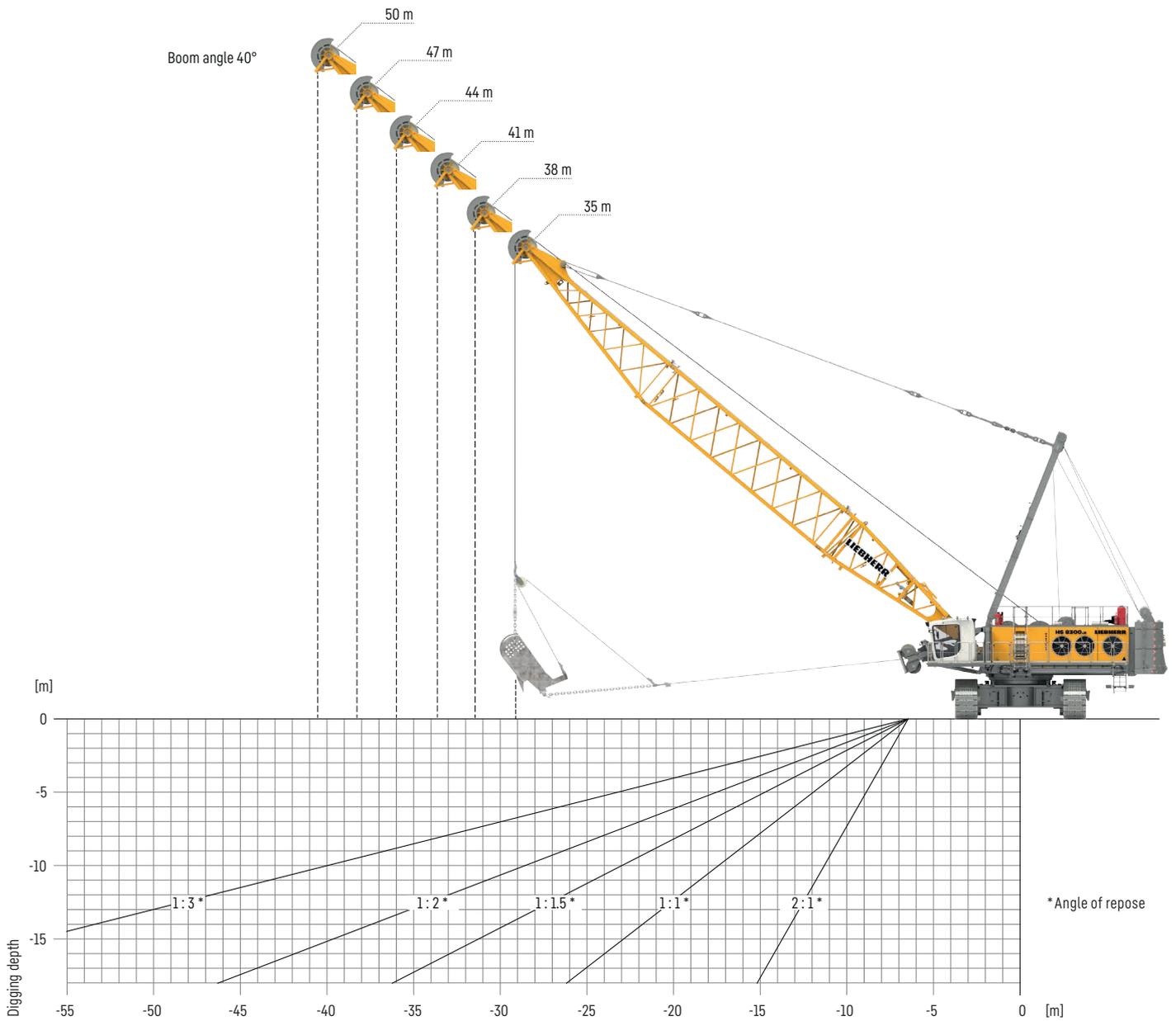
* Rear counterweight 88.9 t

** winches

TLT 13640146



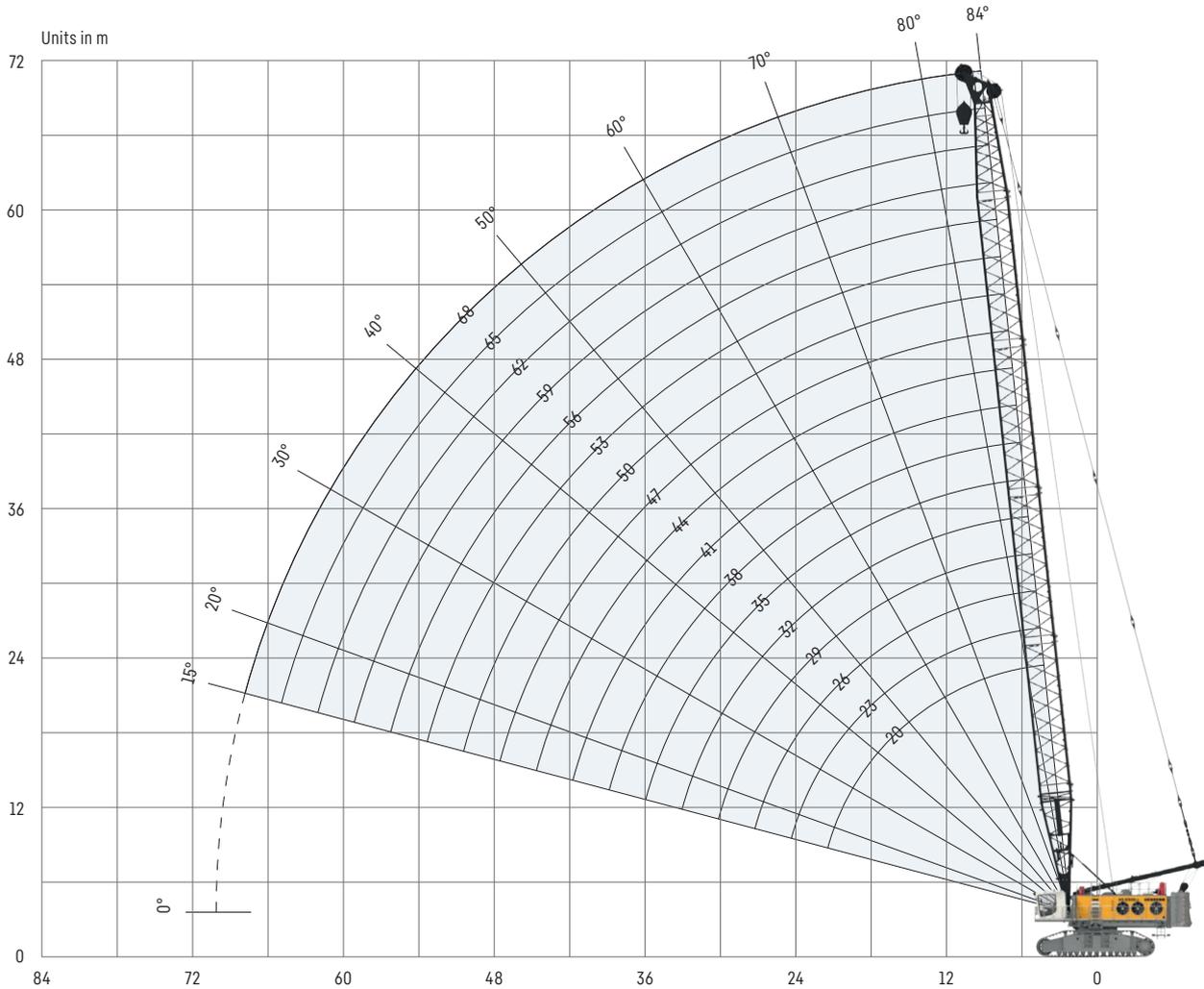
Planning aid (dragline boom head)



Lifting operation

Main boom

with 99 t rear counterweight and 36 t carbody counterweight



Main boom configuration

Boom section	Amount of boom sections																
								*				*				*	
Boom foot 10m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section 3m		1		1		1		1		1		1		1		1	
Boom section 6m			1	1			1	1			1	1			1	1	
Boom section 12m					1	1	1	1	2	2	2	2	3	3	3	3	4
Boom head 10m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length [m]	20	23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* preferred boom combinations



→ 2545 ←

Auxiliary jib 50 t

The maximum capacity of the auxiliary jib is 50 t.
The corresponding load chart is programmed in the LML system.



→ 2545 ←

Auxiliary jib 70 t

The maximum capacity of the auxiliary jib is 70 t.
The corresponding load chart is programmed in the LML system.

Load chart for lifting operation**

Capacities in [t]

* Radius [m]	Boom length [m]																	
	20		23		26		29		32		35		38		41		44	
	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0
6	293.0	293.0	293.0	293.0														
7	293.0	283.7	293.0	273.0	293.0	263.0	293.0	253.5	290.5	244.6	278.4	234.4						
8	284.2	239.3	274.9	231.4	266.2	224.0	257.8	216.8	249.9	210.2	242.4	203.7	235.2	197.6	228.4	191.7	221.8	164.4
9	245.6	206.5	238.4	200.4	231.7	194.7	225.1	189.0	218.9	183.8	212.9	178.7	207.1	173.7	201.6	169.0	196.3	146.9
10	215.9	181.2	210.2	176.4	204.8	171.8	199.4	167.2	194.5	163.0	189.5	158.8	184.8	154.7	180.2	150.7	175.8	132.6
11	191.2	160.6	187.6	157.2	183.2	153.4	178.7	149.6	174.6	146.2	170.5	142.6	166.5	139.1	162.6	135.8	158.9	120.5
12	168.4	141.3	168.6	141.4	165.5	138.4	161.7	135.1	158.3	132.2	154.7	129.1	151.3	126.2	147.9	123.3	144.7	110.3
13	150.2	125.8	150.4	125.9	150.5	125.8	147.4	123.0	144.5	120.5	141.4	117.8	138.4	115.3	135.4	112.7	132.7	101.4
14	135.3	113.1	135.5	113.2	135.6	113.4	135.3	112.7	132.8	110.6	130.0	108.2	127.4	105.9	124.7	103.6	122.3	93.8
15	122.9	102.5	123.0	102.6	123.2	102.8	123.0	102.6	122.7	102.0	120.2	99.8	117.8	97.8	115.4	95.7	113.3	87.0
16	112.3	93.5	112.5	93.6	112.6	93.8	112.5	93.6	112.5	93.7	111.6	92.5	109.5	90.7	107.3	88.7	105.4	81.1
17	103.2	85.7	103.4	85.9	103.6	86.1	103.4	85.9	103.5	86.0	103.2	85.8	102.1	84.4	100.1	82.6	98.4	75.8
18	95.2	78.9	95.5	79.2	95.7	79.4	95.5	79.2	95.7	79.4	95.4	79.1	95.1	78.8	93.7	77.2	92.1	71.0
19	88.2	72.9	88.6	73.3	88.8	73.5	88.7	73.4	88.8	73.5	88.5	73.2	88.3	73.0	87.9	72.3	86.5	66.7
20	82.0	67.6	82.4	68.0	82.7	68.3	82.6	68.2	82.7	68.4	82.4	68.1	82.2	67.8	81.8	67.5	81.5	62.7
21	76.3	62.7	76.9	63.3	77.3	63.7	77.2	63.6	77.3	63.8	77.0	63.5	76.8	63.2	76.4	62.9	76.3	58.6
22	39.3	39.0	72.0	59.1	72.4	59.5	72.3	59.4	72.5	59.6	72.2	59.3	72.0	59.1	71.6	58.7	71.4	54.9
23			67.5	55.2	68.0	55.8	67.9	55.7	68.1	55.9	67.8	55.6	67.6	55.4	67.2	55.0	67.1	51.5
24			63.3	51.6	64.0	52.3	63.9	52.3	64.2	52.5	63.9	52.2	63.7	52.0	63.3	51.7	63.1	48.4
25			39.3	39.3	60.3	49.1	60.3	49.2	60.6	49.4	60.3	49.2	60.1	49.0	59.7	48.6	59.6	45.7
26					56.8	46.2	56.9	46.3	57.3	46.6	57.0	46.4	56.8	46.2	56.4	45.8	56.3	43.1
27					53.6	43.4	53.8	43.6	54.2	44.0	54.0	43.8	53.8	43.6	53.4	43.2	53.3	40.7
28					39.3	39.3	51.0	41.2	51.4	41.6	51.2	41.4	51.0	41.2	50.6	40.8	50.5	38.9
29							48.3	39.3	48.8	39.4	48.6	39.3	48.4	39.3	48.1	39.0	48.0	36.8
30							45.7	37.1	46.4	37.6	46.2	37.4	46.0	37.3	45.7	36.9	45.6	35.0
31							39.3	35.0	44.1	35.7	43.9	35.5	43.8	35.4	43.5	35.0	43.4	33.2
32									41.9	33.8	41.8	33.7	41.7	33.6	41.4	33.3	41.3	31.5
33									39.8	32.1	39.8	32.0	39.8	31.9	39.4	31.6	39.4	30.0
34											38.3	30.4	38.3	30.4	37.9	30.0	37.9	28.5
35											36.5	28.9	36.5	28.9	36.2	28.6	36.2	27.1
36											34.8	27.4	34.9	27.5	34.6	27.2	34.6	25.8
37													33.3	26.1	33.0	25.9	33.0	24.6
38													31.8	24.8	31.6	24.6	31.6	23.5
39													30.0	23.6	30.2	23.4	30.2	22.3
40															28.9	22.3	28.9	21.3
41															27.6	21.2	27.7	20.3
42															26.0	20.1	26.5	19.3
43																	25.4	18.3
44																	24.3	17.4
45																	23.0	23.0
46																		
47																		
48																		
49																		
50																		
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58																		
59																		
60																		
61																		

* Rear counterweight in [t]
 ** 50 t winch
 * 36 t carbody counterweight
 TLT 13187643

Capacities in [t]

* 99  78.0	Boom length [m]															
	47		50		53		56		59		62		65		68	
	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0	99  78.0
9	191.3	160.1	186.3	155.8	181.6	151.8										
10	171.5	143.3	167.4	139.7	163.4	136.3	159.5	132.9	155.8	129.7	151.2	126.5				
11	155.2	129.4	151.7	126.3	148.3	123.4	144.9	120.4	141.7	117.7	138.5	114.9	135.5	112.2	130.4	109.6
12	141.5	117.8	138.4	115.1	135.4	112.5	132.5	109.9	129.7	107.4	126.9	105.0	124.2	102.6	121.5	100.2
13	129.9	107.8	127.1	105.4	124.4	103.1	121.9	100.8	119.3	98.6	116.8	96.4	114.4	94.3	112.0	92.2
14	119.8	99.3	117.3	97.1	114.9	95.0	112.6	93.0	110.3	91.0	108.1	89.0	105.9	87.0	103.7	85.1
15	111.0	91.8	108.8	89.8	106.6	87.9	104.5	86.1	102.4	84.2	100.4	82.4	98.4	80.6	96.4	78.9
16	103.3	85.2	101.3	83.4	99.2	81.6	97.4	80.0	95.4	78.3	93.5	76.6	91.7	74.9	89.9	73.3
17	96.4	79.4	94.6	77.7	92.7	76.1	91.0	74.6	89.2	73.0	87.5	71.4	85.7	69.9	84.0	68.4
18	90.3	74.2	88.6	72.7	86.9	71.1	85.3	69.7	83.6	68.2	82.0	66.8	80.4	65.3	78.8	63.9
19	84.8	69.5	83.3	68.1	81.6	66.6	80.1	65.3	78.6	63.9	77.0	62.5	75.5	61.2	74.1	59.9
20	79.9	65.3	78.4	64.0	76.9	62.6	75.5	61.4	74.0	60.0	72.6	58.7	71.1	57.4	69.7	56.2
21	75.4	61.5	74.0	60.2	72.5	58.9	71.3	57.7	69.8	56.5	68.5	55.2	67.1	54.0	65.8	52.8
22	71.0	58.0	70.0	56.8	68.6	55.5	67.4	54.4	66.0	53.2	64.7	52.1	63.4	50.8	62.2	49.8
23	66.7	54.5	66.3	53.7	65.0	52.4	63.8	51.4	62.5	50.2	61.3	49.1	60.0	48.0	58.9	46.9
24	62.7	51.1	62.4	50.7	61.6	49.6	60.6	48.6	59.3	47.5	58.1	46.4	56.9	45.3	55.8	44.3
25	59.2	48.0	58.8	47.7	58.4	47.0	57.5	46.1	56.3	45.0	55.2	43.9	54.0	42.8	53.0	41.9
26	55.9	45.2	55.5	44.9	55.1	44.4	54.7	43.7	53.6	42.6	52.5	41.6	51.3	40.5	50.3	39.6
27	52.9	42.7	52.5	42.3	52.1	41.9	51.8	41.4	51.0	40.4	49.9	39.4	48.8	38.8	47.9	37.9
28	50.1	40.3	49.7	40.0	49.3	39.5	49.0	39.3	48.6	38.7	47.6	37.8	46.5	36.8	45.6	36.0
29	47.5	38.5	47.2	38.1	46.7	37.7	46.5	37.4	46.0	36.8	45.4	35.9	44.3	34.9	43.4	34.1
30	45.2	36.4	44.8	36.1	44.4	35.7	44.1	35.4	43.6	34.9	43.2	34.1	42.3	33.2	41.4	32.4
31	43.0	34.5	42.6	34.2	42.2	33.8	41.9	33.5	41.4	33.1	41.0	32.5	40.3	31.5	39.5	30.8
32	40.9	32.8	40.6	32.4	40.1	32.0	39.8	31.7	39.4	31.3	39.3	30.9	38.9	30.0	38.1	29.2
33	39.3	31.1	39.0	30.8	38.5	30.3	38.2	30.1	37.8	29.6	37.4	29.2	36.9	28.5	36.4	27.8
34	37.5	29.6	37.1	29.3	36.7	28.8	36.4	28.6	36.0	28.1	35.6	27.7	35.1	27.1	34.8	26.4
35	35.8	28.1	35.4	27.8	35.0	27.4	34.8	27.1	34.3	26.7	33.9	26.3	33.4	25.8	33.1	25.1
36	34.2	26.8	33.9	26.4	33.4	26.0	33.2	25.7	32.7	25.3	32.3	24.9	31.8	24.4	31.5	23.9
37	32.7	25.5	32.3	25.2	31.9	24.7	31.7	24.5	31.2	24.0	30.8	23.6	30.3	23.1	30.0	22.7
38	31.2	24.2	30.9	23.9	30.5	23.5	30.2	23.3	29.8	22.8	29.4	22.4	28.9	21.9	28.6	21.6
39	29.9	23.1	29.6	22.8	29.1	22.3	28.9	22.1	28.4	21.7	28.1	21.3	27.6	20.8	27.2	20.5
40	28.6	22.0	28.3	21.7	27.9	21.2	27.6	21.0	27.2	20.6	26.8	20.2	26.3	19.7	26.0	19.4
41	27.4	20.9	27.1	20.7	26.6	20.2	26.4	20.0	26.0	19.5	25.6	19.2	25.1	18.7	24.8	18.3
42	26.2	19.9	25.9	19.7	25.5	19.2	25.3	19.0	24.8	18.6	24.4	18.2	24.0	17.7	23.6	17.4
43	25.1	19.0	24.8	18.7	24.4	18.3	24.2	18.1	23.7	17.6	23.4	17.2	22.9	16.8	22.6	16.4
44	24.0	18.1	23.8	17.8	23.4	17.4	23.2	17.2	22.7	16.7	22.3	16.4	21.8	15.9	21.5	15.6
45	23.0	17.2	22.8	16.9	22.4	16.5	22.2	16.3	21.7	15.9	21.3	15.5	20.9	15.0	20.5	14.7
46	22.0	16.3	21.8	16.1	21.4	15.7	21.2	15.5	20.8	15.1	20.4	14.7	19.9	14.2	19.6	13.9
47	21.0	15.5	20.9	15.3	20.5	14.9	20.3	14.8	19.9	14.3	19.5	13.9	19.0	13.5	18.7	13.2
48	20.1	14.7	20.0	14.5	19.6	14.2	19.4	14.0	19.0	13.6	18.6	13.2	18.2	12.7	17.9	12.4
49			19.1	13.8	18.8	13.4	18.6	13.3	18.2	12.9	17.8	12.5	17.3	12.0	17.0	11.7
50			18.3	13.1	17.9	12.7	17.8	12.6	17.4	12.2	17.0	11.8	16.5	11.3	16.2	11.0
51			17.4	12.3	17.1	12.0	17.0	11.9	16.6	11.5	16.2	11.2	15.8	10.7	15.5	10.4
52					16.4	11.4	16.3	11.3	15.9	10.9	15.5	10.5	15.0	10.0	14.8	9.8
53					15.6	10.7	15.6	10.7	15.2	10.3	14.8	9.9	14.3	9.4	14.1	9.2
54					14.9	10.1	14.9	10.1	14.5	9.7	14.1	9.3	13.7	8.9	13.4	8.6
55									14.2	9.5	13.8	9.1	13.5	8.8	13.0	8.3
56									13.5	8.9	13.1	8.5	12.8	8.2	12.4	7.8
57									12.8	8.0	12.5	8.0	12.2	7.7	11.8	7.2
58										11.9	7.5	11.6	7.2	11.2	6.7	10.9
59										11.3	6.9	11.0	6.7	10.6	6.2	10.4
60										10.7	6.0	10.5	6.2	10.0	5.7	9.8
61												9.9	5.7	9.5	5.3	9.3
62												9.4	5.2	9.0	4.8	8.8
63														8.5	4.4	8.3
64														7.9	3.9	7.8
																3.8

* Rear counterweight in [t]
 ** 50 t winch
 + 36 t carbody counterweight
 TLT 13187643

Load chart for lifting operation**

Capacities in [t]

* Radius [m]	Boom length [m]																	
	20		23		26		29		32		35		38		41		44	
	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0	99 	78.0
6	189.1	189.1	189.1	189.1														
7	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1						
8	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	186.0
9	189.1	189.1	189.1	189.1	189.1	189.1	189.1	188.9	189.1	183.7	189.1	178.6	189.1	173.7	189.1	168.9	189.1	164.3
10	189.1	181.1	189.1	176.3	189.1	171.7	189.1	167.1	189.1	162.9	189.1	158.7	184.7	154.6	180.1	150.7	175.7	146.9
11	189.1	160.5	187.5	157.1	183.1	153.4	178.6	149.5	174.6	146.1	170.4	142.5	166.4	139.1	162.5	135.7	158.8	132.5
12	168.4	141.2	168.5	141.4	165.4	138.3	161.6	135.0	158.2	132.2	154.6	129.1	151.2	126.1	147.8	123.2	144.6	120.4
13	150.2	125.7	150.3	125.9	150.5	125.8	147.3	122.9	144.5	120.5	141.3	117.8	138.3	115.2	135.4	112.6	132.6	110.2
14	135.3	113.0	135.4	113.2	135.6	113.3	135.2	112.6	132.7	110.5	130.0	108.1	127.3	105.8	124.7	103.5	122.2	101.4
15	122.8	102.4	123.0	102.6	123.1	102.7	122.9	102.6	122.6	101.9	120.1	99.7	117.8	97.7	115.4	95.6	113.2	93.7
16	112.2	93.4	112.4	93.6	112.6	93.8	112.4	93.6	112.5	93.7	111.6	92.4	109.4	90.6	107.2	88.7	105.3	87.0
17	103.1	85.6	103.3	85.9	103.5	86.1	103.4	85.9	103.5	86.0	103.2	85.7	102.1	84.3	100.1	82.5	98.3	81.0
18	95.2	78.9	95.5	79.1	95.7	79.4	95.5	79.2	95.6	79.3	95.3	79.0	95.1	78.8	93.7	77.1	92.1	75.7
19	88.2	72.9	88.5	73.2	88.8	73.5	88.6	73.3	88.8	73.5	88.5	73.2	88.2	72.9	87.9	72.2	86.5	71.0
20	81.9	67.5	82.4	68.0	82.7	68.3	82.5	68.1	82.7	68.3	82.4	68.0	82.2	67.8	81.8	67.4	81.4	66.7
21	76.3	62.7	76.9	63.3	77.2	63.7	77.1	63.5	77.3	63.7	77.0	63.4	76.8	63.2	76.4	62.8	76.2	62.6
22	48.7	48.7	71.9	59.1	72.4	59.5	72.3	59.4	72.5	59.6	72.2	59.3	71.9	59.1	71.6	58.7	71.4	58.5
23			67.4	55.2	67.9	55.7	67.9	55.6	68.1	55.9	67.8	55.6	67.6	55.4	67.2	55.0	67.0	54.8
24			63.2	51.6	63.9	52.3	63.9	52.2	64.1	52.5	63.8	52.2	63.6	52.0	63.3	51.6	63.1	51.5
25			48.7	48.7	60.2	49.1	60.2	49.1	60.5	49.4	60.2	49.1	60.1	48.9	59.7	48.7	59.5	48.7
26					56.8	46.6	56.9	46.7	57.2	47.0	57.0	46.7	56.8	46.5	56.4	46.1	56.2	46.0
27					53.6	43.9	53.8	44.0	54.2	44.3	53.9	44.1	53.7	43.9	53.4	43.5	53.2	43.4
28					48.7	41.3	50.9	41.5	51.4	41.9	51.1	41.7	51.0	41.5	50.6	41.2	50.5	41.0
29							48.6	39.2	48.8	39.7	48.7	39.5	48.7	39.3	48.4	39.0	48.2	38.8
30							46.1	37.1	46.7	37.6	46.5	37.4	46.3	37.3	46.0	36.9	45.9	36.8
31							43.7	34.9	44.4	35.6	44.2	35.5	44.1	35.4	43.7	35.0	43.6	34.9
32									42.2	33.8	42.1	33.7	42.0	33.6	41.7	33.2	41.6	33.1
33									40.2	32.0	40.1	32.0	40.1	31.9	39.7	31.6	39.6	31.5
34											38.3	30.4	38.2	30.3	37.9	30.0	37.8	29.9
35											36.5	28.8	36.5	28.8	36.2	28.5	36.1	28.5
36											34.8	27.3	34.8	27.4	34.5	27.1	34.5	27.1
37													33.3	26.1	33.0	25.8	33.0	25.8
38													31.8	24.8	31.6	24.6	31.6	24.6
39													30.3	23.5	30.2	23.4	30.2	23.4
40															28.8	22.2	28.9	22.3
41															27.6	21.1	27.7	21.2
42															26.3	20.1	26.5	20.2
43																	25.4	19.2
44																	24.3	18.3
45																	23.0	17.4
46																		
47																		
48																		
49																		
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59																		
60																		
61																		

* Rear counterweight in [t]

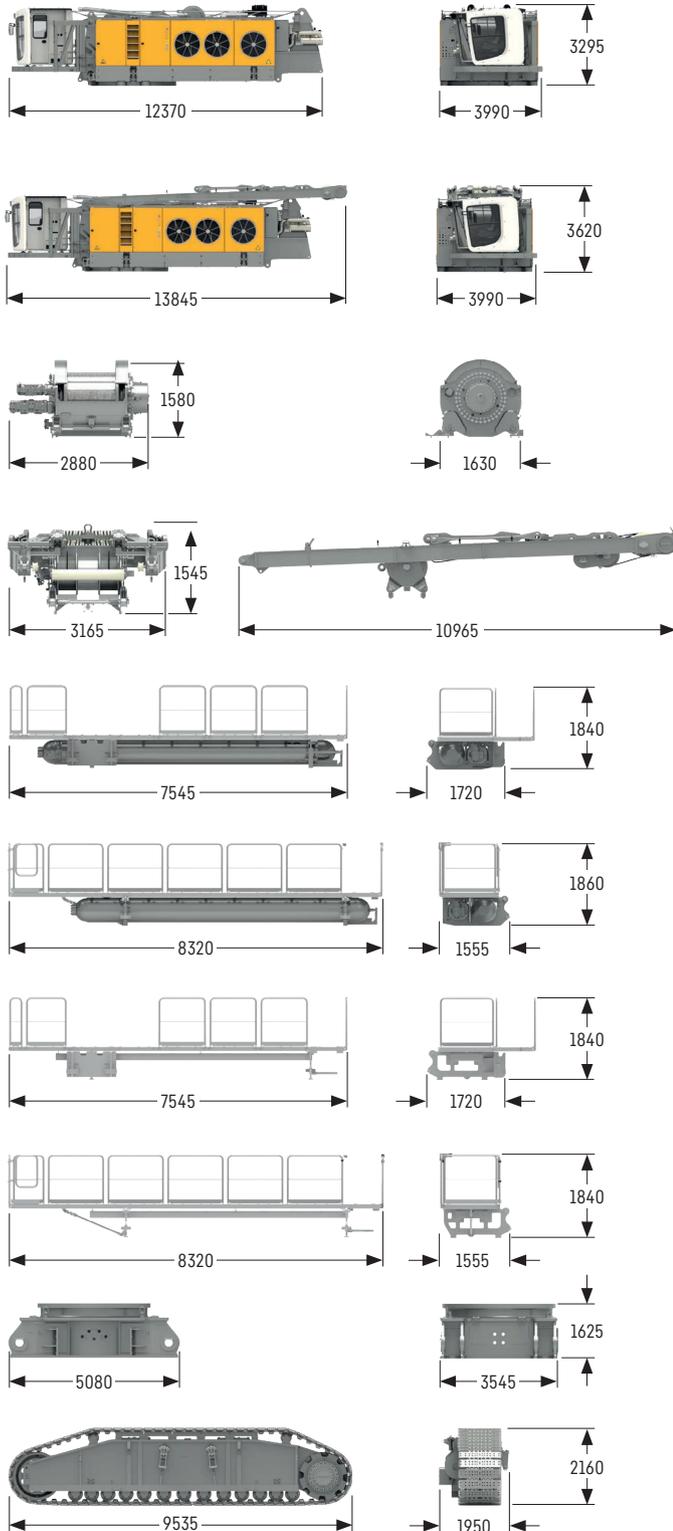
** 70 t winch

 + 36 t carbody counterweight

TLT 13189391 (M286618) Vorab 2

Transport dimensions and weights

Basic machine and main boom (2724.35)



Basic machine

without HD undercarriage, boom, boom backstops, A-frame, main winches (2x 687kN), platforms and counterweight

Weight	kg 72200
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Basic machine

with A-frame, boom backstops, main winches (2x 687kN) without wire rope (250m), without platforms, HD undercarriage, counterweight

Weight	kg 115500
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Main winches (2x)

Weight winch 50 t without wire ropes	kg 12200
Wire rope 46 mm	kg/m 11.4
Weight winch 70 t without wire ropes	kg 13300
Wire rope 50 mm	kg/m 13.4

A-frame incl. boom winch

Weight	kg 14700
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Platform with Pactronic® (left) option

Weight	kg 8600
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Platform with Pactronic® (right) option

Weight	kg 8400
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Standard platform (left)

Weight	kg 1600
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Standard platform (right)

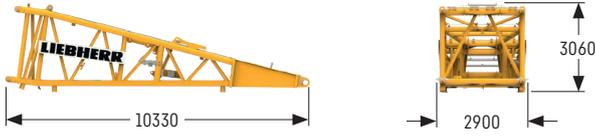
Weight	kg 1400
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Centre section of undercarriage

Weight	kg 36630
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Crawlers

Weight of crawler left (track pads 1200 mm)	kg 46400
Weight of crawler right (track pads 1200 mm)	kg 46400



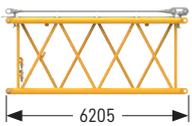
Boom foot (2724.35)

Width	mm	2900
Weight	kg	8580



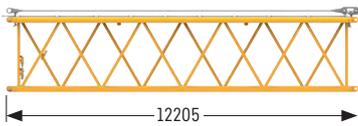
Boom section 3 m (2724.35)

Width	mm	2925
Weight	kg	1830



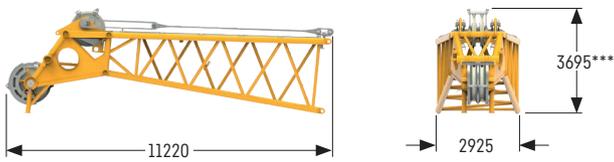
Boom section 6 m (2724.35)

Width	mm	2925
Weight	kg	2810



Boom section 12 m (2724.35)

Width	mm	2925
Weight	kg	4820



Boom head* (2724.35)

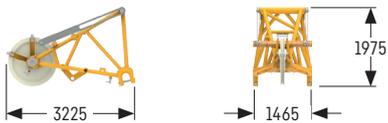
Width	mm	2925
Weight**	kg	11080

* Steel sheaves
 ** Including pendant ropes, without auxiliary equipment
 *** with dismantled boom back sheave 3390 mm



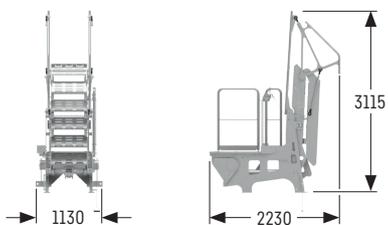
Boom head - dragline

Weight	kg	7230
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Auxiliary jib

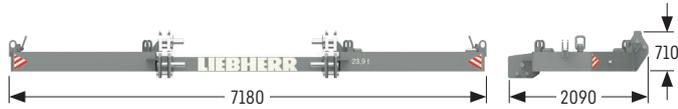
Weight	kg	1470
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Machine access

Weight	kg	780
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Counterweight



Counterweight (1x)

Width	mm	2090
Weight	kg	24250



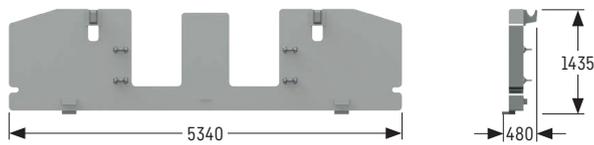
Counterweight (4x)

Width	mm	1520
Weight	kg	13550



Counterweight (4x)

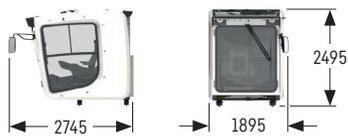
Width	mm	1520
Weight	kg	5000



Carbody counterweight (4x)

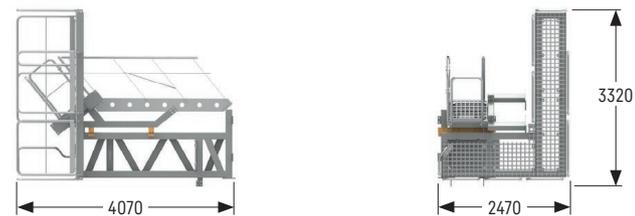
Width	mm	476
Weight	kg	9070

Cabin



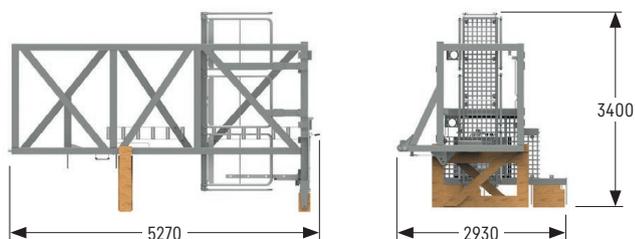
Cabin

Weight	kg	2090
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Cabin extension I

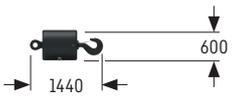
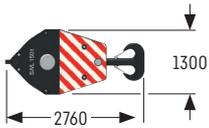
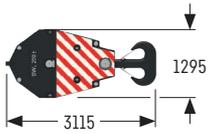
Weight	kg	2150
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Cabin extension II

Weight	kg	2020
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Hooks for 50 t winch



300 t hook block – 4 sheaves

Width	mm	830
Weight	kg	4000

150 t hook block – 1 sheave

Width	mm	625
Weight	kg	3000

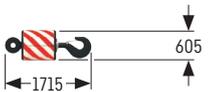
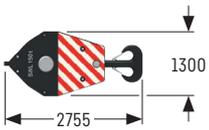
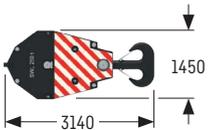
50 t single hook

Width	mm	605
Weight	kg	1600

Rope reeving and max. load capacity [t]

Hooks	1	2	3	4	5	6	7	8
300 t – 4 sheaves, 4000 kg	39.3	77.8	115.6	152.6	188.9	224.4	259.2	293
150 t – 1 sheave, 3000 kg	39.3	77.8	115.6					
50 t – 1600 kg	39.3							

Hooks for 70 t winch



250 t hook block – 2 sheaves

Width	mm	495
Weight	kg	4440

150 t hook block – 1 sheave

Width	mm	476
Weight	kg	3000

70 t single hook

Width	mm	600
Weight	kg	1670

Rope reeving and load capacity [t]

Hooks	1	2	3	4
250 t – 2 sheaves, 4440 kg	48.7	96.4	143.2	189.1
150 t – 1 sheave, 3000 kg	48.7	96.4	143.2	
70 t – 1670 kg	48.7			

Liebherr-Werk Nenzing GmbH · Dr. Hans Liebherr Str. 1 · 6710 Nenzing, Austria
Phone +43 50809 41-473 · crawler.crane@liebherr.com · www.liebherr.com
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