

100 METRIC TON CAPACITY

 GALICHANIN



TRUCK CRANES OF THE KC-85713 100 METRIC TON CAPACITY

Many years of experience in the manufacture of mobile cranes allowed to design unique cranes under the Russian brand GALICHANIN, created for domestic operating conditions and not inferior to its counterparts.

When designing cranes, special attention was paid to the profitability of crane operation and cost reduction when traveling on Russian roads. Cranes of the KC-85713 series have the ability to move on public roads in compliance with the requirements for axle loads and total weight.



UNIVERSAL SUPERSTRUCTURE

With a lifting capacity of 100 tons, it can be mounted on the truck chassis of various manufacturers according to customer requirements. Due to the low weight and convenient location of the outriggers, the superstructure can be installed on a truck chassis 5 axle chassis type Mercedes-Benz, MAN, Volvo and Scania. Other chassis on request

- Telescopic boom 51.0 m.
- Jib 18.0 m.
- Own engine.
- Large support contour.

TRUCK CHASSIS FOR MOUNTING SUPERSTRUCTURE



SUPERSTRUCTURE ENGINES





SUPERSTRUCTURE ENGINE

The crane is equipped with two diesel engines mounted on a chassis for moving the truck crane and on a superstructure for driving crane operations.

SUPERSTRUCTURE CAB

The superstructure cab has a panoramic front glass, which increases the viewing angle in the vertical plane. The cabin is also equipped with a system for changing the angle of inclination to 25°, which allows you to view the working area at any length and tilt of the boom. The crane operator's seat with air suspension has the ability to adjust, which allows you to adjust its position in height, slope and other parameters for a specific driver.

CLIMATE CONTROL

The superstructure is equipped with a liquid heater and air conditioning. Reliable and productive climate control ensures a comfortable temperature in the crane operator's cabin at any time of the year.

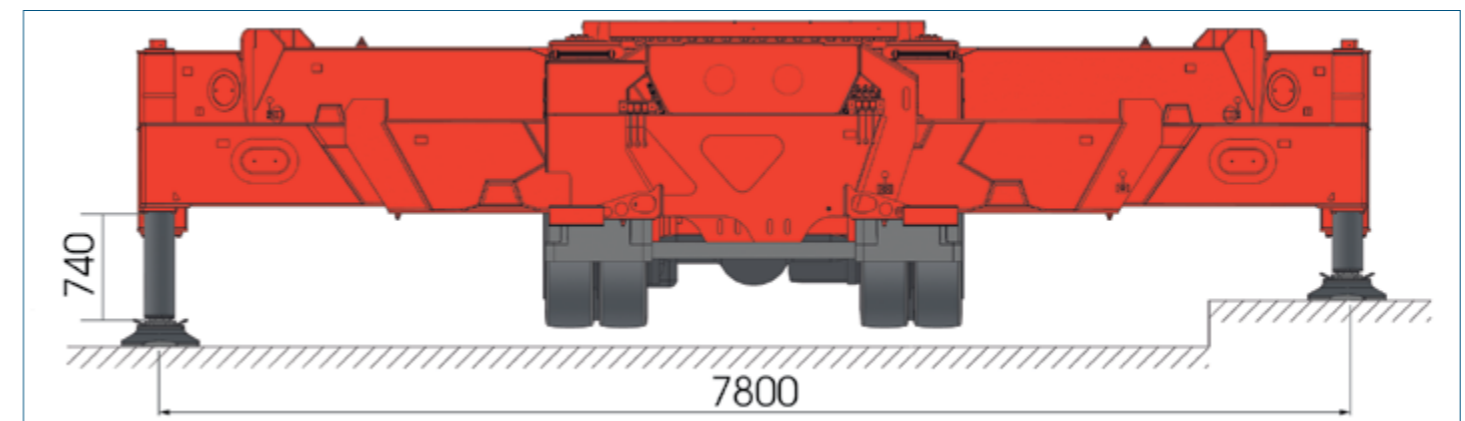
TESTED ACCESSORIES

World manufacturers Bosch-Rexroth, Siebenhaar, Beka-max, Pfeifer, Webasto, STAUFF and the latest developments in the field of mobile hydraulics and electronics guarantee the reliable operation of all crane systems and reduce operating costs.

OUTRIGGERS

The K-shaped outriggers with support contour of 8.6x7.8 (8.4x7.8) in size and stacked counterweights weight up to 26.0 tons assembled and dis assembled by hydraulic cylinders controlled from superstructure cab.

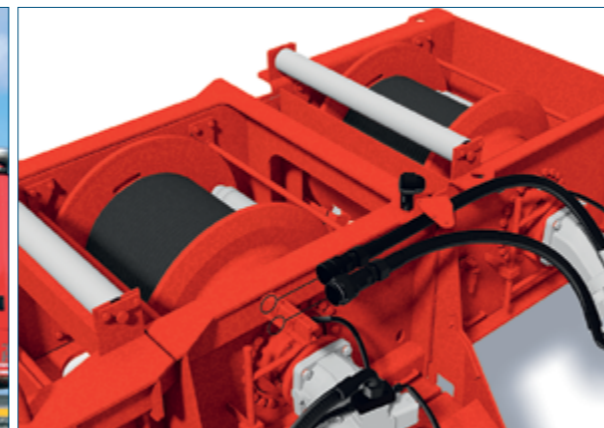
- Lighting of a zone of installation on supports with four built-in searchlights
- Maintenance-free 2-stage retractable beams with hydraulic extension system



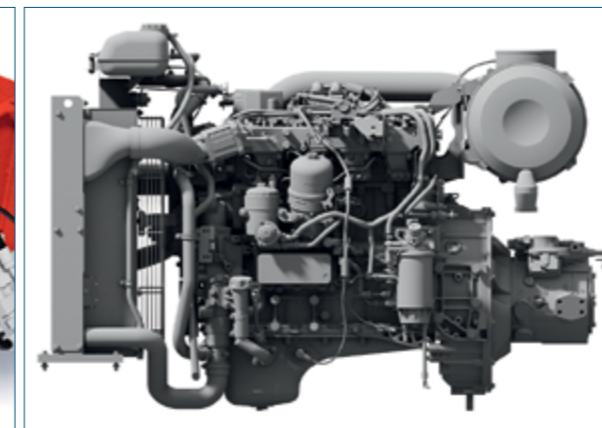
Central lubrication system



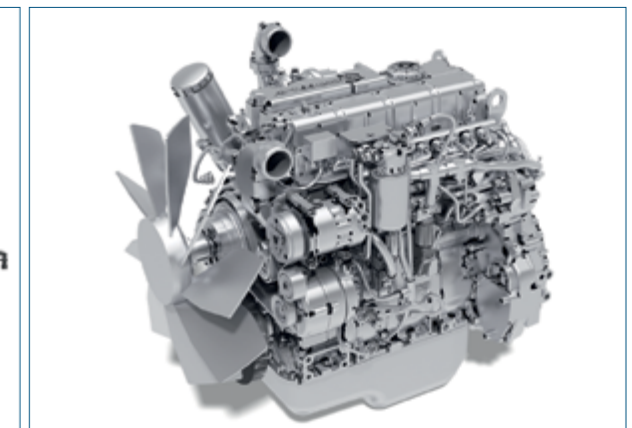
Comfortable superstructure cab



High Traction Winches



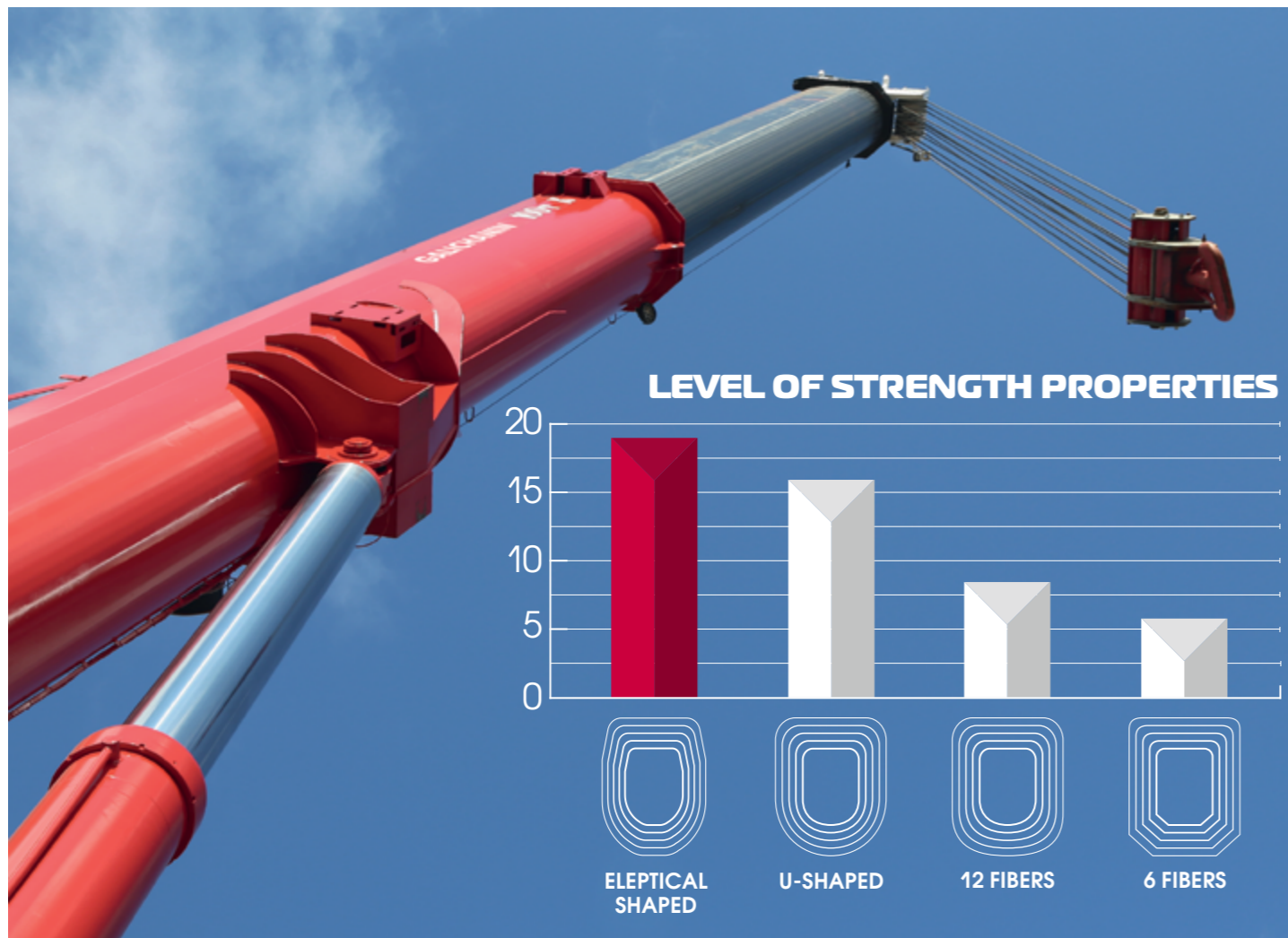
Superstructure engine of the VOLVO Penta



Superstructure engine of the WEICHAI

TELESCOPIC BOOM WITH ELEPTICAL PROFILE

The boom is made in accordance with the latest trends in world crane building.



HIGH LOAD CAPACITY

- GALICHANIN telescopic booms achieve high load capacity, both with full and partial set of counterweights
- Elliptical boom profile for greater lateral stiffness
- Possibility of telescoping boom with cargo

COMPACT LOCK

Provides simplicity, speed and safety of the freight rope reeving, with an increase in its service life.

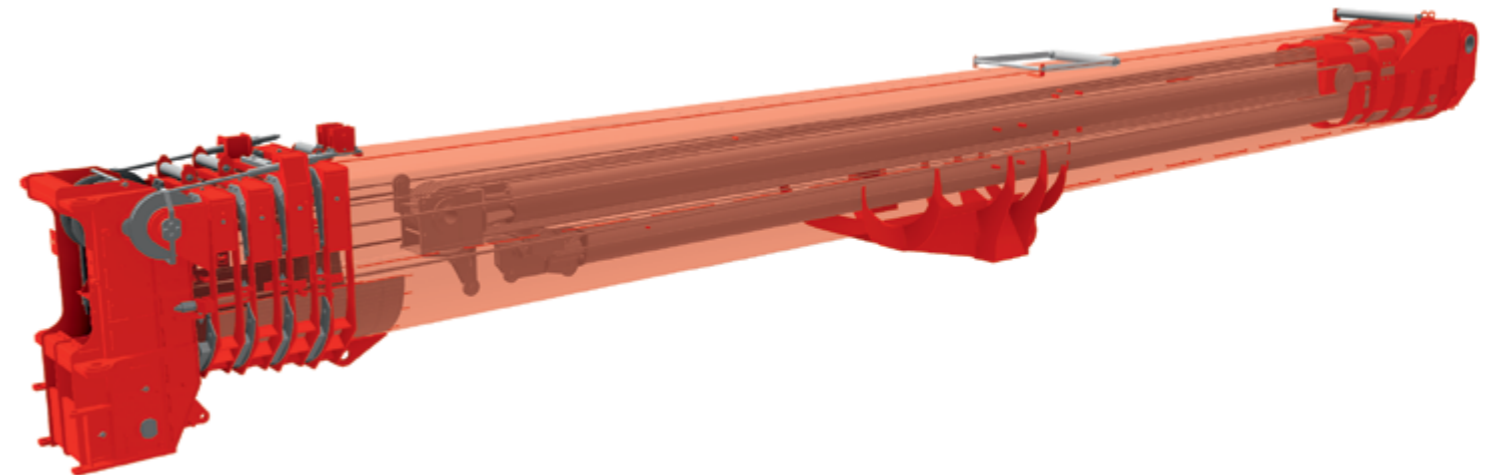


SINGLE BLOCK

For handling loads up to 5.0 tons



TELESCOPIC TECHNOLOGY: HYDROMECHANICAL SYSTEM



FAST TELESCOPING

For truck cranes GALICHANIN, a hydromechanical system is used as a technology for telescoping boom. The telescopic boom extends to the required length easily and quickly. Thanks to this system, there is the possibility of telescoping the boom with a load weighing up to 20.0 tons, which facilitates installation operations in a limited space construction site.

BOOM TELESCOPING

Telescopic boom 5 sections, made of high tensile, finegrained steel, consisting of 1 base section and 4 telescoping sections extended by means of a single telescopic cylinder. The hydromechanical boom telescoping system works with double-acting single-stage hydraulic cylinders. They extend or retract the second and third sections of the boom. The fourth and fifth sections are put forward by means of a rope pulley block.

BOOM LENGTH

Boom length in retracted position 13.6 m; in the fully extended state of all sections, it is 51.0 m. Due to the installation of the jib, the boom length increases to 69.0 m. To increase the lifting height to 81.7 m, two intermediate trellised sections with a length of 6.0 m are provided.

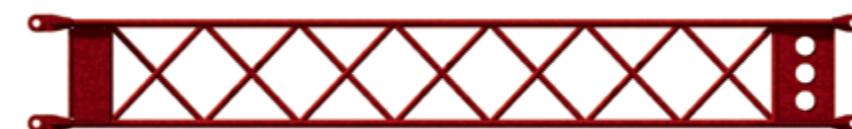
JIB

Folding two-section extension of a boom of 18,0 m



BOOM EXTENTION

Between the boom and the jib to increase double extension for lifting height to 81.7 m.



SMART CRANE



MULTIFUNCTIONAL COMPLEX

The crane is equipped so that they are able to fulfil such functions as safety, management and control in the process.

GRAPHIC DISPLAY

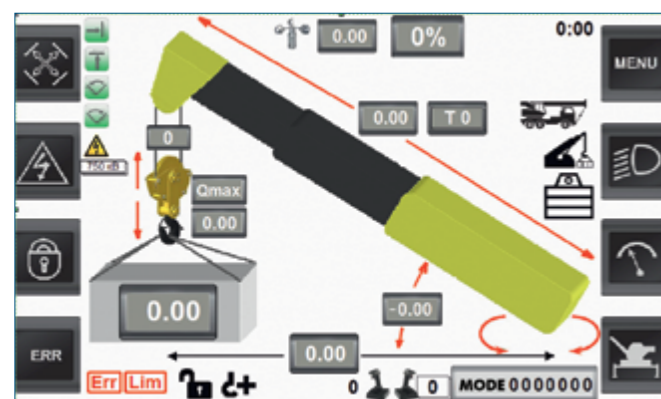
A 7" monitor displays all the necessary information for safe and convenient operation of the crane operator: engine parameters, current load capacity, limited working areas of the equipment, determined by design and operational conditions, as well as information about the wind speed, the current tilt and other crane parameters

INSTALLATION OPERATIONS

Intelligent system allows the operator to adjust necessary speeds for smooth execution of crane operations. This feature is especially useful during installation operations where work is required with minimal lowering speeds.

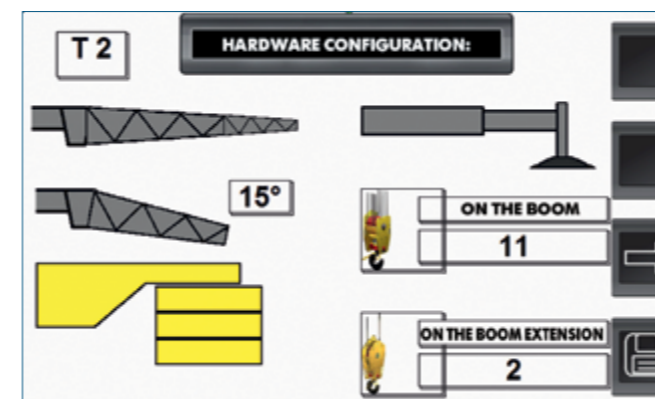
ELECTRONIC CRANE SYSTEM PROVIDES:

- continuous operation (readiness time is up to 1 min after power on)
- technical self-diagnostics: functional testing units of components, communication lines failure monitoring, indication of operative condition, light and sound alarm and display of diagnostic messages upon detection of failures with identification of detected system hardware faults
- information exchange between blocks and sensors of the system via CAN bus
- indication of crane operating parameters measured by system sensors
- warning and alarm systems, as well as display of diagnostic messages when approaching established restrictions
- blocking of working movements when trying to work with incorrect equipment configuration or operating mode, as well as display of relevant diagnostic messages
- registration and recording of parameters in a black box



The graphic display shows information on:

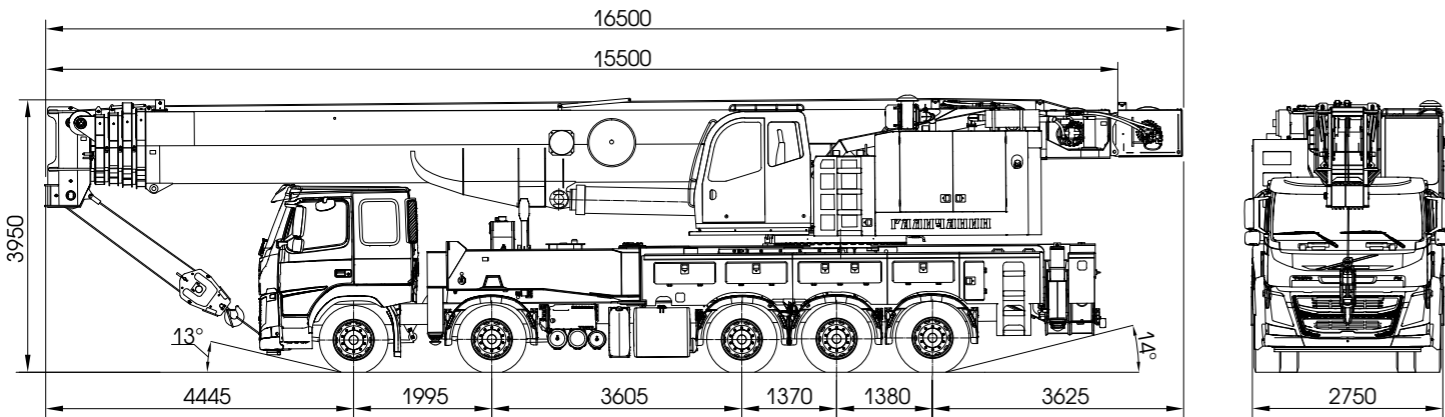
- the degree of crane loading, load capacity, cargo weight within any crane radius
- the hook radius, boom length
- the boom head stroke or jib stroke
- the limitation of working areas
- the boom angle relative to the horizon
- the current engine and hydraulic drive operating parameters
- the parameters stored in memory registrar



Hardware Configuration:

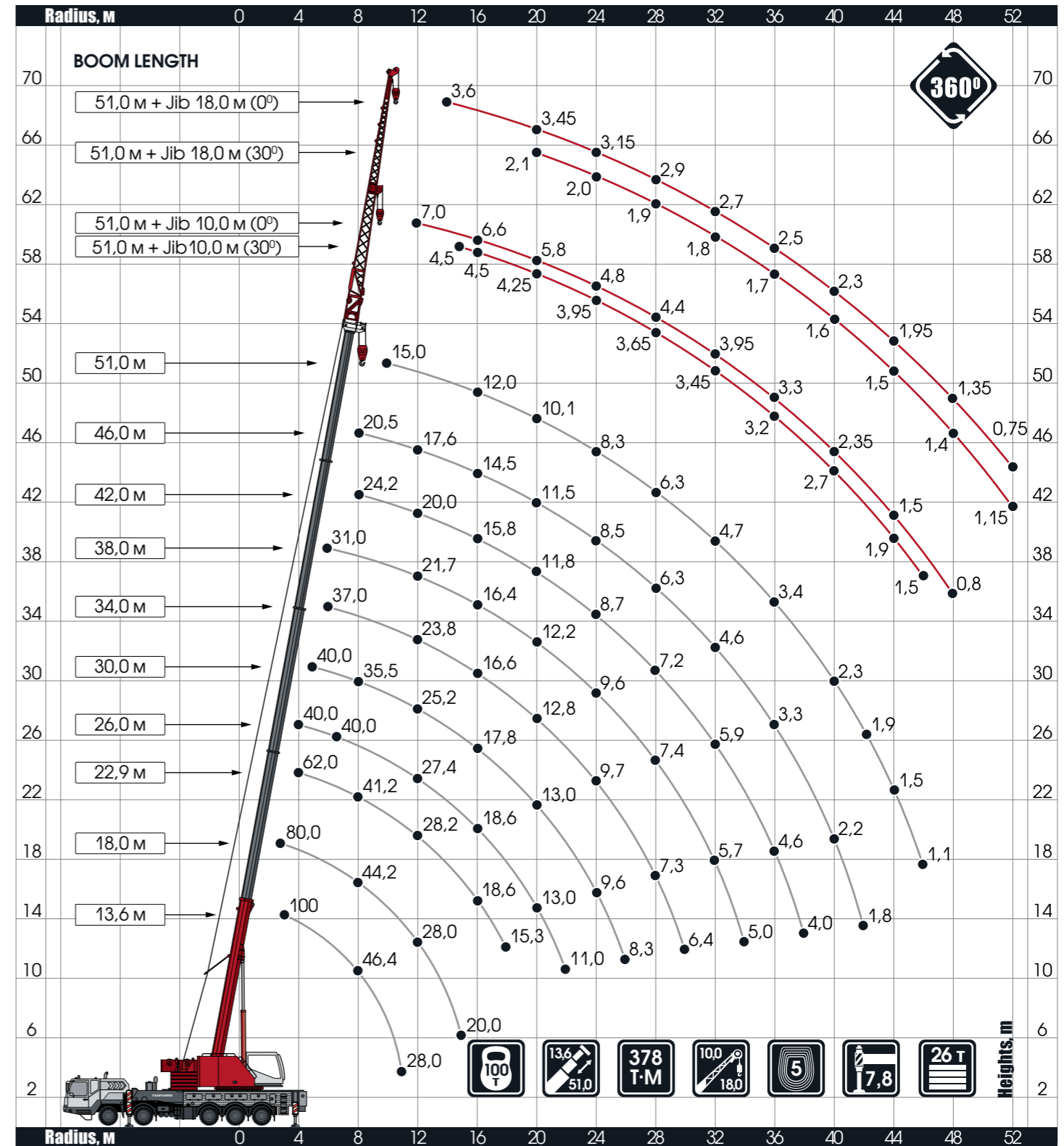
- selection of the mode of the telescoping boom
- indication of the selected support contour
- indication of the selected counterweight
- indication of the selected extension length
- indication of the selected extension tilt angle
- reeving and hook on the main winch
- reeving and hook on the auxiliary winch

DIMENSIONS



MODEL	KC-85713	KC-84713-2	KC-84713-6
lifting capacity, t	100	100	100
Wheel arrangements, m	10x4	10x4	10x10
Boom length, m	13,6-51,0	13,6-51,0	13,6-51,0
Jib length, m	10;18; 24; 30	10;18; 24; 30	10;18;24;30
Load moment, tm	378	378	378
Maximum radius with main boom (with jib), m	46 (52)	46 (52)	46 (52)
Maximum hook height, m			
- Main boom	51,5	51,5	51,5
- Main boom+jib 30,0 m	81,7	81,7	81,7
Load-lifting (- lowering) speed, m/min			
- Nominal	2,57	2,57	2,57
- maximal	80	80	80
Rotation speed of the rotating platform, 1/min	to 1,7	to 1,7	to 1,7
Truck chassis	Volvo FM13	M3KT-740001	M3KT-750001
Engine			
- chassis	Volvo D13A	ЯМ3-652	ЯМ3-653
- superstructure	Volvo TAD 541VE	ЯМ3-534	ЯМ3-534
Engine power, kW (h.p.)			
- chassis	285 (387)	303 (412)	309 (420)
- superstructure	129 (175)	129 (175)	139 (189)
Outriggers base (maximum), m	8,6x7,8	8,6x7,8	8,4x7,8
Total length, mm	15500	15500	15500
Base truck chassis, mm	1995+3605+1370+1380	2100+3200+1400+1400	2100+3280+1420+1400
Height, mm	3950	3995	3995
Width, mm	2750	2750	2750
Front angle of the overhang, degrees	13	25	25
Rear overhang angle, degree	14	13	14
The truck crane weight (minimum configuration), t	54,50	55,60	57,7
First axle load, t	9,20	9,80	9,2
Second axle load, t	9,20	9,80	9,2
Load on the rear trolley, t	24,80	24,0	26
Five axle load, t	11,30	12,0	13,0

LIFTING CAPACITIES AND HEIGHTS



COUNTERWEIGHT 26 TONS



radius, m	boom length, m										radius, m
	13,6	18,0	22,9	26,0	30,0	34,0	38,0	42,0	46,0	51,0	
3,2	100,0	80,0									3,2
4,0	88,0	80,0	62,0	40,0							4,0
5,0	73,8	68,5	61,0	40,0	40,0	37,0					5,0
6,0	62,8	59,2	54,0	40,0	40,0	37,0	31,0				6,0
7,0	54,0	51,3	46,8	40,0	38,5	34,5	29,8	25,8			7,0
8,0	46,4	44,2	41,2	38,5	35,5	32,2	28,6	24,2	20,5		8,0
10,0	35,0	35,0	35,0	32,6	30,0	27,8	25,0	22,4	19,0	15,0	10,0
12,0		28,0	28,2	27,4	25,2	23,8	21,7	20,0	17,6	14,0	12,0
14,0		22,2	22,6	22,5	21,0	20,2	18,9	17,7	16,1	13,0	14,0
16,0			18,6	18,6	17,8	16,6	16,4	15,8	14,5	12,0	16,0
18,0			15,3	15,5	15,2	14,6	13,8	13,9	13,0	11,0	18,0
20,0				13,0	13,0	12,8	12,2	11,8	11,5	10,1	20,0
22,0				11,0	11,2	11,2	10,8	10,0	10,0	9,2	22,0
24,0					9,6	9,7	9,6	8,7	8,5	8,3	24,0
26,0					8,3	8,4	8,5	7,9	7,3	7,3	26,0
28,0						7,3	7,4	7,2	6,3	6,3	28,0
30,0						6,4	6,5	6,5	5,3	5,4	30,0
32,0							5,7	5,9	4,6	4,7	32,0
34,0							5,0	5,2	3,9	4,0	34,0
36,0								4,6	3,3	3,4	36,0
38,0								4,0	2,7	2,8	38,0
40,0									2,2	2,3	40,0
42,0									1,8	1,9	42,0
44,0										1,5	44,0
46,0										1,1	46,0

COUNTERWEIGHT 16 TONS



radius, m	boom length, m										radius, m
	13,6	18,0	22,9	26,0	30,0	34,0	38,0	42,0	46,0	51,0	
3,0	100,0	80,0									3,0
4,0	84,0	75,0	62,0	40,0							4,0
5,0	69,6	64,0	56,2	40,0	40,0	37,0					5,0
6,0	58,0	53,8	49,0	40,0	40,0	37,0	31,0				6,0
7,0	49,0	45,8	42,2	40,0	38,2	34,5	29,8	25,8			7,0
8,0	42,0	40,0	40,0	38,0	34,5	31,8	28,6	24,2	20,5		8,0
10,0	30,0	30,6	30,5	30,2	28,0	26,0	24,5	22,4	19,0	15,0	10,0
12,0		23,0	23,5	23,6	23,0	20,8	20,2	19,0	17,2	14,0	12,0
14,0		17,6	18,2	18,4	18,4	17,0	16,2	15,8	15,2	13,0	14,0
16,0			14,4	14,7	14,8	14,5	13,6	13,0	12,9	12,0	16,0
18,0			11,6	11,9	12,1	12,2	11,8	11,0	10,5	10,5	18,0
20,0				9,8	10,0	10,2	10,1	9,5	8,6	8,8	20,0
22,0				8,1	8,3	8,6	8,6	8,2	7,1	7,2	22,0
24,0					7,0	7,2	7,3	7,1	5,8	5,9	24,0
26,0					5,9	6,1	6,2	6,2	4,8	4,9	26,0
28,0						5,2	5,3	5,4	3,9	4,0	28,0
30,0						4,4	4,5	4,6	3,1	3,2	30,0
32,0							3,9	3,9	2,5	2,6	32,0
34,0							3,3	3,3	1,9	2,0	34,0
36,0								2,8	1,4	1,5	36,0
38,0								2,3	1,0	1,0	38,0
40,0									0,6	0,6	40,0



radius, m	boom length, 46,0 m						boom length, 51,0 m						radius, m
	10,0 m			18,0 m			10,0 m			18,0 m			
	jib angle, degree						jib angle, degree						
	0	15	30	0	15	30	0	15	30	0	15	30	
9,0	9,00												9,0
10,0	8,80					7,00							10,0
12,0	8,40	6,85		4,00		7,00	5,50		3,60				12,0
14,0	8,00	6,55	5,40	4,00	3,50	6,90	5,35		3,60				14,0
16,0	7,60	6,25	5,20	3,90	3,50	6,60	5,05	4,50	3,60	3,00			16,0
20,0	6,80	5,65	4,80	3,60	3,25	2,40	5,80	4,60	4,25	3,45	2,90	2,10	20,0
24,0	6,00	5,15	4,40	3,40	3,00	2,30	4,80	4,20	3,95	3,15	2,70	2,00	24,0
28,0	5,25	4,65	4,00	3,20	2,75	2,15	4,40	3,85	3,65	2,90	2,50	1,90	28,0
32,0	4,50	4,15	3,65	3,00	2,50	1,95	3,95	3,55	3,45	2,70	2,30	1,80	32,0
36,0	3,40	3,50	3,30	2,75	2,25	1,75	3,30	3,20	3,20	2,50	2,10	1,70	36,0
40,0	2,40	2,60	2,75	2,45	2,05	1,65	2,35	2,55	2,70	2,30	1,90	1,60	40,0
44,0	1,60	1,75		2,05	1,80	1,55	1,50	1,70	1,90	1,95	1,75	1,50	44,0
48,0				1,50	1,50	1,45	0,80	1,00		1,35	1,45	1,40	48,0
50,0				1,20	1,30	1,30		0,70		1,05	1,25	1,30	50,0
52,0					1,05					0,75	0,95	1,15	52,0



radius, m	boom length, 46,0 m						boom length, 51,0 m						radius, m
	10,0 m			18,0 m			10,0 m			18,0 m			
	jib angle, degree						jib angle, degree						
	0	15	30	0	15	30	0	15	30	0	15	30	
9,0	9,00												9,0
10,0	8,80					7,00							10,0
12,0	8,40	6,85		4,00		7,00	5,50		3,60				12,0
14,0	8,00	6,55	5,40	4,00	3,50	6,90	5,35		3,60				14,0
16,0	7,60	6,25	5,20	3,90	3,50	6,60	5,05	4,50	3,60	3,00			16,0
20,0	6,80	5,65	4,80	3,60	3,25	2,40	5,80	4,60	4,25	3,45	2,90	2,10	20,0
24,0	6,00	5,15	4,40	3,40	3,00	2,30	4,80	4,20	3,95	3,15	2,70	2,00	24,0
28,0	5,25	4,65	4,00	3,20	2,75	2,15	4,40	3,85	3,65	2,90	2,50	1,90	28,0
32,0	4,50	4,15	3,65	3,00	2,50	1,95	3,95	3,55	3,45	2,70	2,30	1,80	32,0
36,0	3,40	3,50	3,30	2,75	2,25	1,75	3,30	3,20	3,20	2,50	2,10	1,70	36,0
40,0	2,40	2,60	2,75	2,45	2,05	1,65	2,35	2,55	2,70	2,30	1,90	1,60	40,0
44,0	1,60	1,75		2,05	1,80	1,55	1,50	1,70	1,90	1,95	1,75	1,50	44,0
48,0				1,50	1,50	1,45	0,80	1,00		1,35	1,45	1,40	48,0
50,0				1,20	1,30	1,30		0,70		1,05	1,25	1,30	50,0
52,0					1,05					0,75	0,95	1,15	52,0

COUNTERWEIGHT 6 TONS



radius, m	boom length, m										radius, m
	13,6	18,0	22,9	26,0	30,0	34,0	38,0	42,0	46,0	51,0	
3,0	100,0	80,0									3,0
4,0	79,5	72,5	62,0	40,0							4,0
5,0	62,6	59,0	55,0	40,0	40,0	37,0					5,0
6,0	50,2	47,2	44,8	40,0	40,0	36,0	31,0				6,0
7,0	40,8	40,0	40,0	38,0	36,5	33,5	29,5	25,0			7,0
8,0	33,5	33,5	33,5	33,2	30,0	29,0	26,5	23,4	20,0		8,0
10,0	22,5	23,2	23,5	23,3	23,0	21,8	19,8	18,8	17,5	15,0	10,0
12,0		16,4	17,0	17,0	17,0	17,0	15,8	14,4	14,2	12,8	12,0
14,0		12,1	12,8	13,0	13,0	13,0	12,8	12,0	10,7	10,6	14,0
16,0			9,7	10,0	10,2	10,2	10,1	9,7	8,3	8,3	16,0
18,0			7,5	7,8	8,0	8,1	8,0	7,8	6,5	6,5	18,0
20,0				6,2	6,4	6,5	6,5	6,4	5,0	5,0	20,0
22,0				4,9	5,1	5,3	5,3	5,3	3,8	3,9	22,0
24,0					4,1	4,3	4,3	4,3	2,8	3,0	24,0
26,0					3,2	3,4	3,5	3,5	2,1	2,2	26,0
28,0						2,7	2,9	2,9	1,4	1,5	28,0
30,0						2,1	2,3	2,3	0,8	0,9	30,0
32,0							1,8	1,8			32,0
34,0							1,3	1,4			34,0
36,0								1,0			36,0

COUNTERWEIGHT 0 TONS



radius, m	boom length, m										radius, m
	13,6	18,0	22,9	26,0	30,0	34,0	38,0	42,0	46,0	51,0	
2,6	100,0	80,0									2,6
3,0	92,5	80,0									3,0
4,0	73,0	69,5	62,0	40,0							4,0
5,0	56,6	54,0	51,0	40,0	40,0	37,0					5,0
6,0	44,6	42,6	40,0	40,0	38,6	35,6	31,0				6,0
7,0	35,5	35,5	35,5	35,0	31,0	29,5	27,8	25,0			7,0
8,0	28,2	28,2	28,2	27,5	26,4	23,5	21,8	21,2	19,5		8,0
10,0	17,4	18,1	18,2	18,2	17,8	17,4	16,2	14,8	14,2	13,0	10,0
12,0		12,4	12,9	12,9	12,7	12,6	12,2	11,8	10,1	9,8	12,0
14,0		8,8	9,5	9,6	9,5	9,5	9,3	9,1	7,5	7,3	14,0
16,0			6,9	7,1	7,3	7,4	7,2	7,0	5,4	5,4	16,0
18,0			5,1	5,4	5,6	5,7	5,6	5,5	3,9	3,9	18,0
20,0				4,1	4,3	4,4	4,4	4,3	2,8	2,8	20,0
22,0				3,0	3,3	3,4	3,4	3,4	1,8	1,9	22,0
24,0					2,4	2,6	2,6	2,6	1,0	1,1	24,0
26,0					1,7	1,9	2,0	2,0			26,0
28,0						1,3	1,4	1,4			28,0

radius, m	boom length, 46,0 m						boom length, 51,0 m						radius, m
	10,0 m			18,0 m			10,0 m			18,0 m			
	jib angle, degree						jib angle, degree						
	0	15	30	0	15	30	0	15	30	0	15	30	
9,0	9,00												9,0
10,0	8,80					7,00							10,0
12,0	8,40	6,85		4,00		7,00	5,50		3,60				12,0
14,0	8,00	6,55	5,40	4,00	3,50	6,90	5,35		3,60				14,0
16,0	7,60	6,25	5,20	3,90	3,50	6,60	5,05	4,50	3,60	3,00			16,0
20,0	5,00	5,50	4,80	3,60	3,25	2,40	4,80	4,60	4,25	3,45	2,90	2,10	20,0
24,0	3,10	3,60	4,00	3,20	3,00	2,30	2,90	3,40	3,80	3,00	2,70	2,00	24,0
28,0	1,70	2,15	2,50	2,10	2,65	2,15	1,50	1,95	2,30	1,80	2,45	1,90	28,0
32,0	0,65	1,00	1,30	1,10	1,60	1,90	0,50	0,85	1,15	0,85	1,45	1,75	32,0
36,0					0,75	1,20					0,60	1,10	36,0
38,0						0,80						0,70	38,0

radius, m	boom length, 46,0 m						boom length, 51,0 m						radius, m
	10,0 m			18,0 m			10,0 m			18,0 m			
	jib angle, degree						jib angle, degree						
	0	15	30	0	15	30	0	15	30	0	15	30	
9,0	9,00												9,0
10,0	8,80					7,00							10,0
12,0	8,40	6,85		4,00		7,00	5,50		3,60				12,0
14,0	7,80	6,55	5,40	4,00	3,50	6,30	5,35		3,60				14,0
16,0	5,80	6,15	5,20	3,90	3,50	5,10	5,05	4,50	3,60	3,00			16,0
20,0	3,10	3,90	4,25	3,40	3,25	2,40	2,85	3,50	4,00	3,00	2,90	2,10	20,0
24,0	1,40	2,00	2,50	2,00	2,60	2,30	1,20	1,75	2,35	1,60	2,40	2,00	24,0
28,0		0,70	1,10	0,80	1,40	2,00		0,50	0,95	0,50	1,15	1,75	28,0
32,0					0,50	1,05						0,85	32,0
34,0						0,60							34,0

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