Heben
Bewegen
WILBERT

Made in Germany

WT 650 *e.tronic*

Product Information

Radius [m]	Load capacity [t]																													
	82.5	80.0	77.5	75.0	72.5	70.0	67.5	65.0	62.5	60.0	57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0								
3.6 - 19.2	6.0	6.2																					19.8	18.2	16.7	15.5	14.4	12.6	11.8	11.1
3.6 - 20.1		6.6																					20.8	19.0	17.5	16.2	15.1	13.2	12.4	11.7
3.6 - 20.8			7.2																				21.6	19.8	18.3	16.9	15.7	13.8	12.9	12.2
3.6 - 21.2				7.7																			22.1	20.3	18.7	17.3	16.1	14.1	13.3	12.5
3.6 - 21.6					8.2																		22.5	20.6	19.0	17.6	16.4	14.4	13.5	12.7
3.6 - 21.7						8.6																	22.6	20.7	19.1	17.7	16.5	14.4	13.6	12.8
3.6 - 21.8							9.1																22.7	20.8	19.2	17.8	16.6	14.5	13.7	12.9
3.6 - 22.1								9.6															23.0	21.1	19.5	18.0	16.8	14.7	13.8	13.1
3.6 - 22.1									10.1														23.1	21.2	19.5	18.1	16.9	15.7	13.9	13.1
3.6 - 22.3										10.7													23.3	21.4	19.7	18.3	17.0	15.9	14.0	13.2
3.6 -22.4											11.3												23.4	21.5	19.8	18.3	17.1	16.0	14.1	13.3
3.6 - 22.6												12.0											23.6	21.6	19.9	18.5	17.2	16.1	15.0	14.2
3.6 - 22.6													12.7										23.7	21.7	20.0	18.5	17.3	16.1	15.1	14.2
3.6 - 22.9														13.6									23.9	21.9	20.2	18.8	17.5	16.3	15.3	14.4
3.6 - 23.1															14.6								24.2	22.2	20.5	19.0	17.7	16.5	15.5	
3.6 - 23.4																15.7							24.5	22.5	20.7	19.2	17.9	16.7		
3.6 - 23.7																	17.0						24.9	22.8	21.1	19.5	18.2			
3.6 - 24.1																		18.5					25.3	23.2	21.4	19.9				
3.6 - 24.2																			20.0				25.5	23.4	21.6					
3.6 - 24.5																				21.8			25.8	23.6						
3.6 - 24.7																					26.0									

32.0

Jib length [m]

Radius [m]	Load capacity [t]																													
	82.5	80.0	77.5	75.0	72.5	70.0	67.5	65.0	62.5	60.0	57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0								
3.6 - 37.0	6.3																						16.0	16.0	16.0	15.8	14.7	13.7	12.9	12.1
3.6 - 38.6		6.5																					16.0	16.0	16.0	16.0	15.4	14.4	13.5	12.7
3.6 - 40.1			6.9																				16.0	16.0	16.0	16.0	16.0	15.0	14.1	13.2
3.6 - 40.9				7.2																			16.0	16.0	16.0	16.0	16.0	15.3	14.4	13.6
3.6 - 41.6					7.5																		16.0	16.0	16.0	16.0	16.0	15.6	14.7	13.8
3.6 - 41.8						7.8																	16.0	16.0	16.0	16.0	16.0	15.7	14.7	13.9
3.6 - 41.8							8.1																16.0	16.0	16.0	16.0	16.0	15.7	14.8	13.9
3.6 - 42.5								8.4															16.0	16.0	16.0	16.0	16.0	16.0	15.0	14.1
3.6 - 42.6									8.8														16.0	16.0	16.0	16.0	16.0	16.0	15.1	14.2
3.6 - 43.0										9.3													16.0	16.0	16.0	16.0	16.0	16.0	15.2	14.3
3.6 - 43.1											9.7												16.0	16.0	16.0	16.0	16.0	16.0	15.3	14.4
3.6 - 43.4												10.3											16.0	16.0	16.0	16.0	16.0	16.0	15.4	14.5
3.6 - 43.6													10.8										16.0	16.0	16.0	16.0	16.0	16.0	15.4	14.5
3.6 - 44.0														11.4									16.0	16.0	16.0	16.0	16.0	16.0	15.6	14.7
3.6 - 44.5															12.1								16.0	16.0	16.0	16.0	16.0	16.0	15.8	14.9
3.6 - 45.0																12.9							16.0	16.0	16.0	16.0	16.0	16.0	16.0	
3.6 - 42.5																	13.7						16.0	16.0	16.0	16.0	16.0	16.0		
3.6 - 40.0																		14.4					16.0	16.0	16.0	16.0	16.0			
3.6 - 37.5																			15.4				16.0	16.0	16.0	16.0				
3.6 - 35.0																				16.0			16.0	16.0	16.0					
3.6 - 30.0																					16.0									

16.0

Jib length [m]

Loads refer to 40 m hook travel. In case of a lager hook travel it is reduced by the hoist rope weight (in 2-rope mode = 4.0 kg/m hook travel; in 4-rope mode 8.0 kg/m hook travel).

The WT 650 *e.tronic* tower crane. Efficient. Cleverly designed. And ready for action.

Transport.
At your destination in five units.

The complete slewing unit of the WT 650 *e.tronic* is transported together with the 82.5 m jib on five trucks to the site; the 40' counterjib can be transported on any standard container chassis thanks to the container connectors. Even small parts are allocated a set place and are, for the most part, secured automatically. Naturally, the compact design ensures that storage of the whole crane is space-saving. And it can be loaded in just one lift per unit.

Assembly.
Small details, great results.

Specially designed, easy-to-assemble features allow the WT 650 *e.tronic* to be raised in next to no time: important connections are accessible without erection platforms, the jib stays are positioned at the top of the tower head section by means of the hoist gear and the assembly weights are easily adapted to the capacity of the assembly crane. Finally, the current configuration is simply stored in the *e.tronic* control system. By the way, to program the maximum load limit switch, you need only one known test weight.

Maintenance.
Reliability is a standard feature.

The WT 650 *e.tronic* really has what it takes: tried and tested high-volume components ensure reliability. And the sophisticated error diagnostics system not only displays any faults and malfunctions on the touch panel, but also allows operating and error data to be retrieved on any PC with a modem and the corresponding software. When the reservoir of the *e.tronic*-controlled central lubrication system is empty, you have the possibility to automatically send an SMS to a pre-selected service number.

Control.
Perfection can be programmed.

The WT 650 *e.tronic* is equipped with the *e.tronic* programmable logic control system, featuring 230 V powerful relay switches rated in category AC 4 – so operational wear and tear is not an issue here. The safety-related measuring systems are fitted in duplicate and thus ensure that DIN EN 954/3 is complied with. And what's more, since the frequency converters controlled by absolute encoders are identical for all drives, they are completely interchangeable. The *e.tronic* includes an operating range limit with 8 polygons of max. 8 corner points each.

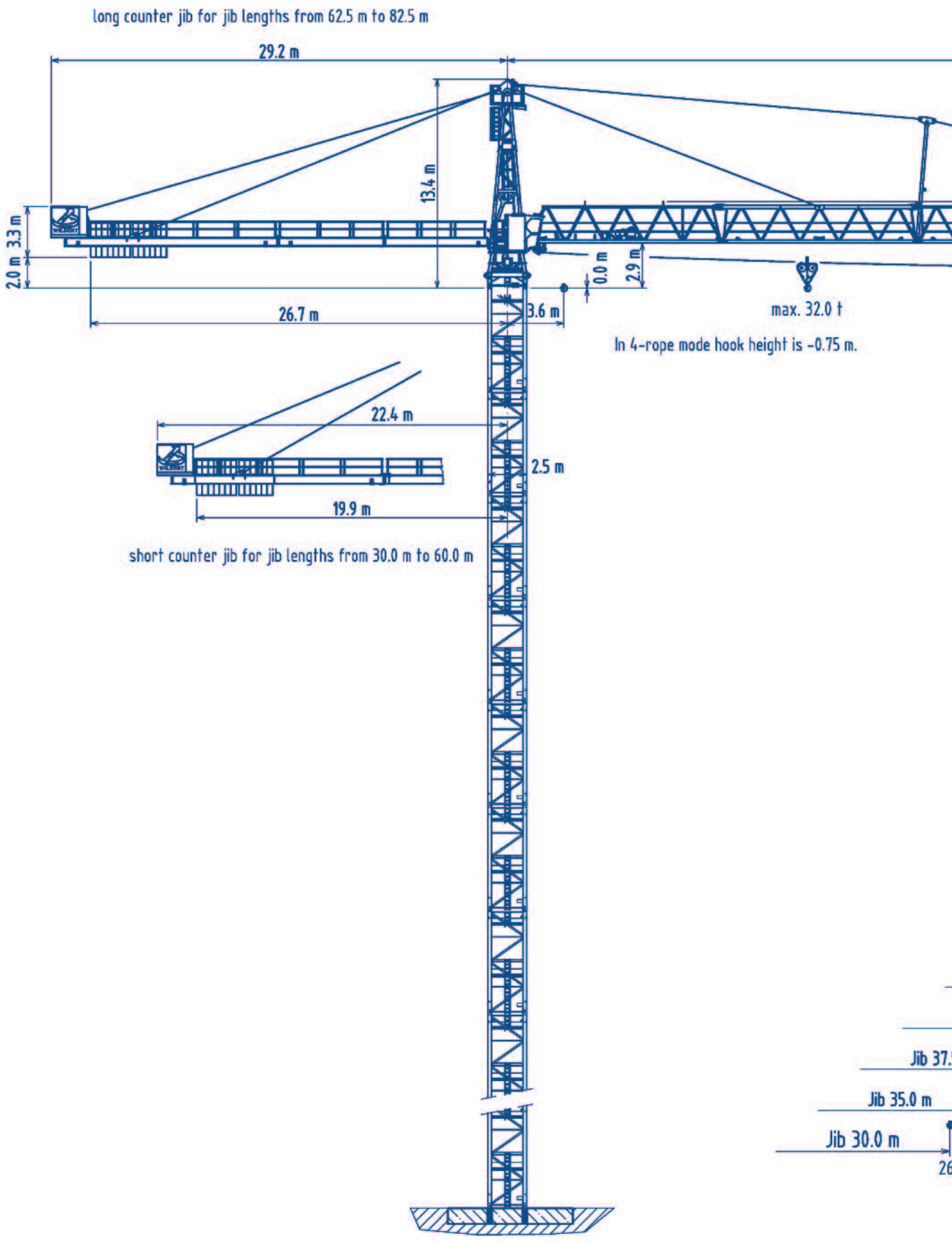
The spacious, side-mounted operator cab ensures the crane operator is comfortable and has clear visibility. It also features a touch panel providing him with all important data he requires – in the language of his choice, of course.

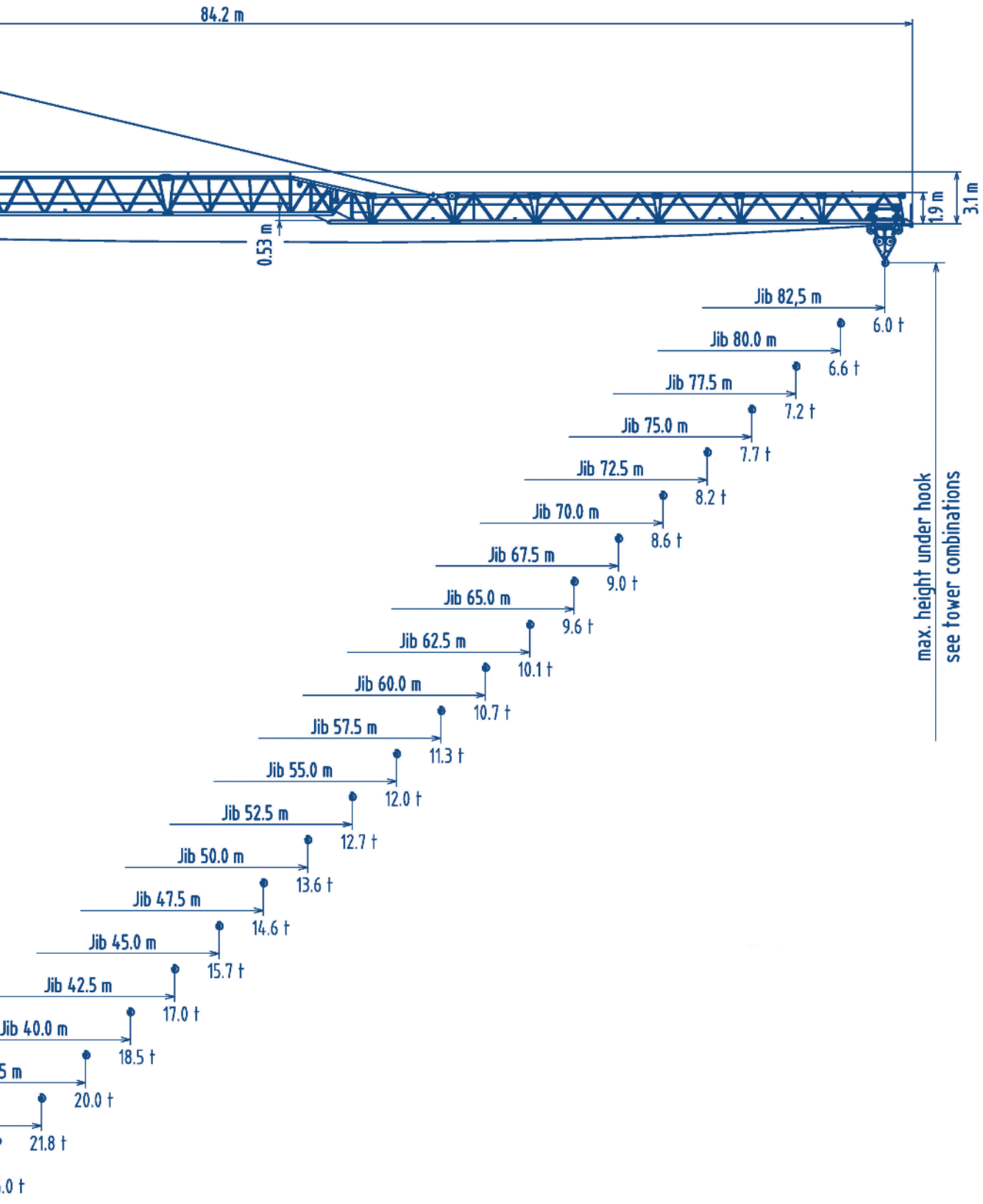
Modular system.
A variety of possibilities.

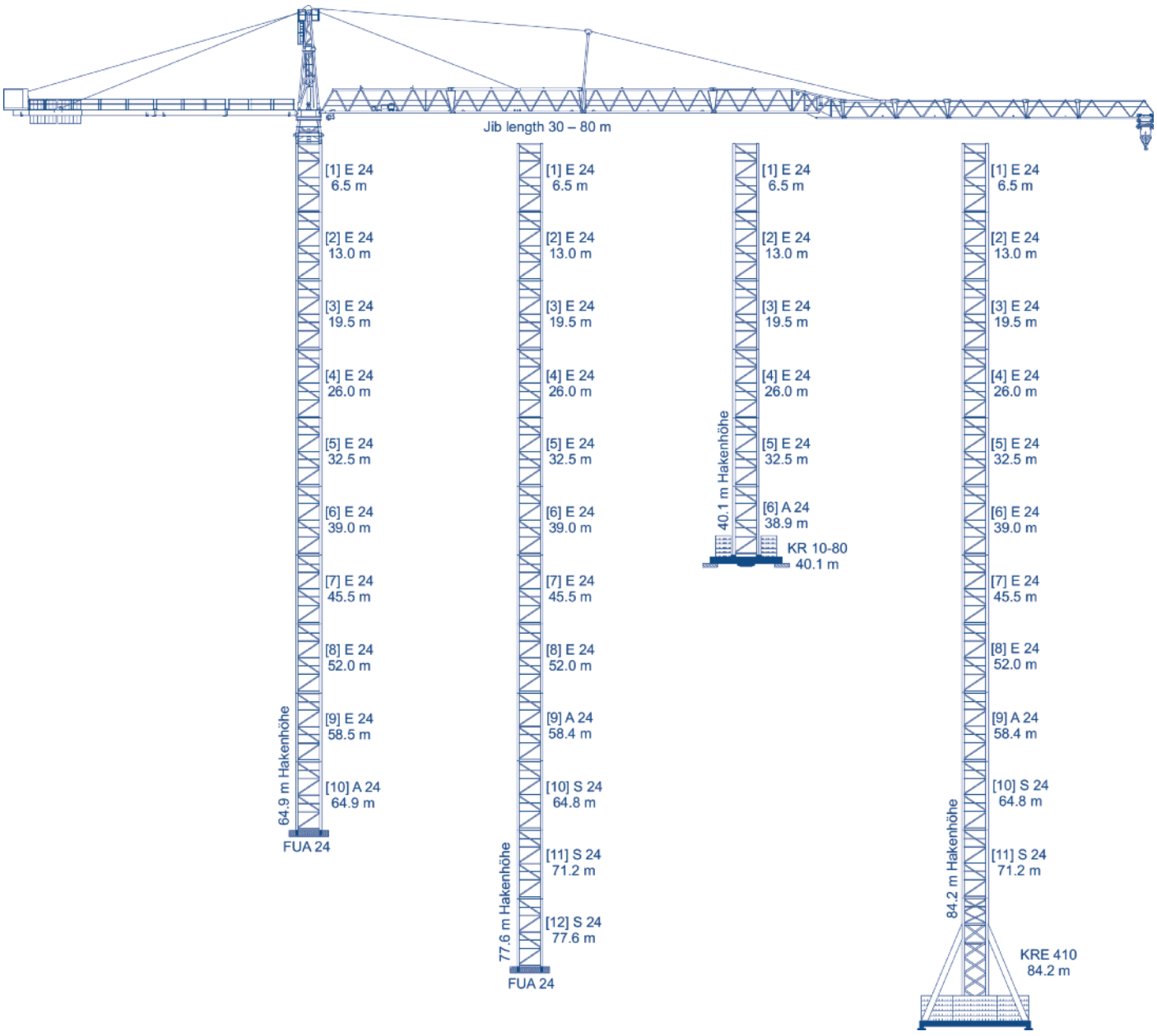
From 30 m to 82.5 m – just adapt the length of the jib as required, with nine different jib sections in two and a half metre lengths. The slewing unit can be assembled on the 2.4 m wide tower elements, which have a standard length of 6.42 m and feature external and internal climbing frames. Foundation anchors, expandable crossframes and assembly-optimised crossframe elements – with pressure plates that can be replaced by rail-going undercarriages – are also available for flexible use as base elements. And as far as advertising is concerned, the two illuminated display boards can be changed quickly and easily – simply remove the diffusing panel and change the logo.

The real size of the WT 650 *e.tronic* is demonstrated by its maximum freestanding tower height of 83.7 m, realised with standard tower elements. Higher freestanding hook heights are possible with special tower elements. Just ask!

Layout drawing

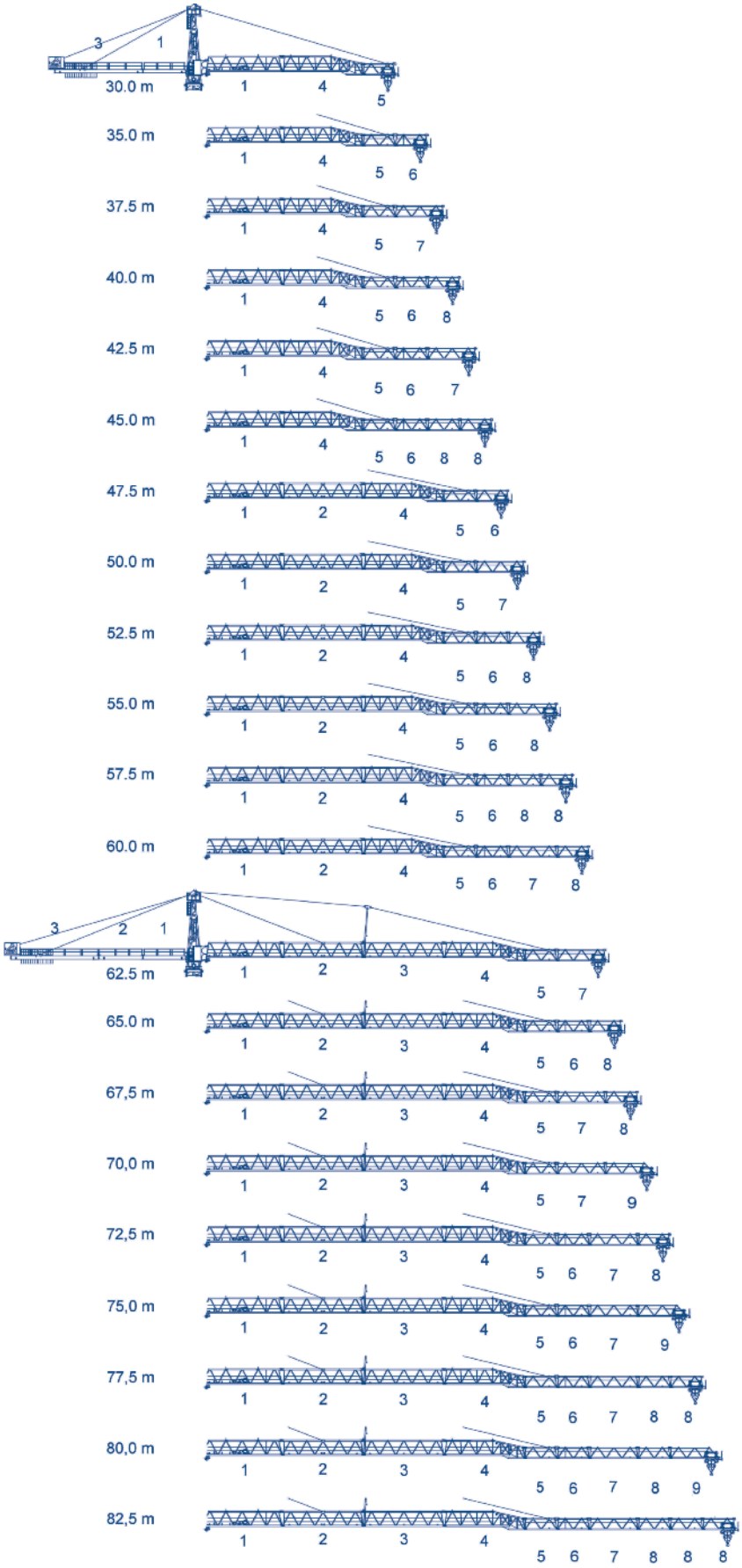




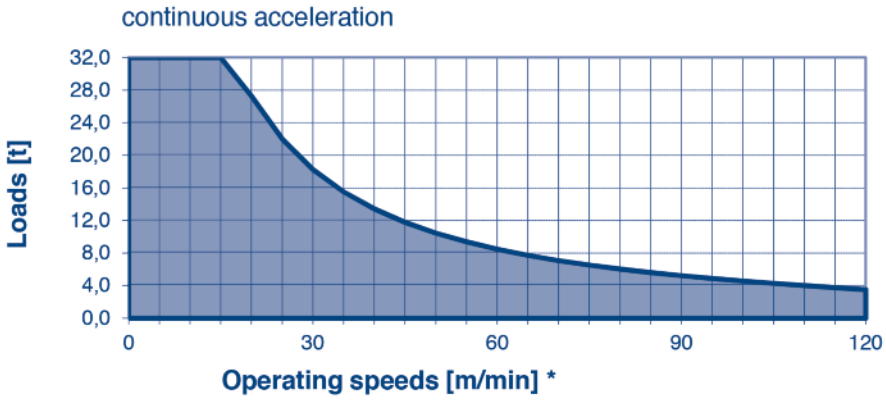


Tower combinations according to C 25 wind data.

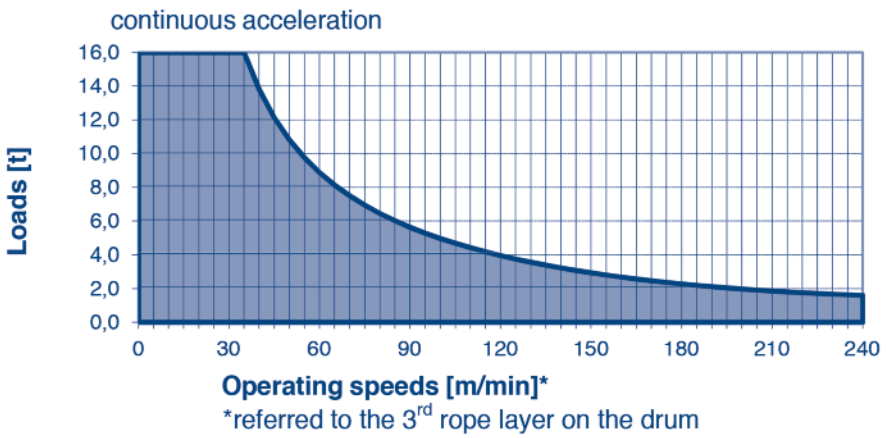
Lower under hook heights may be allowed for certain jib lengths.



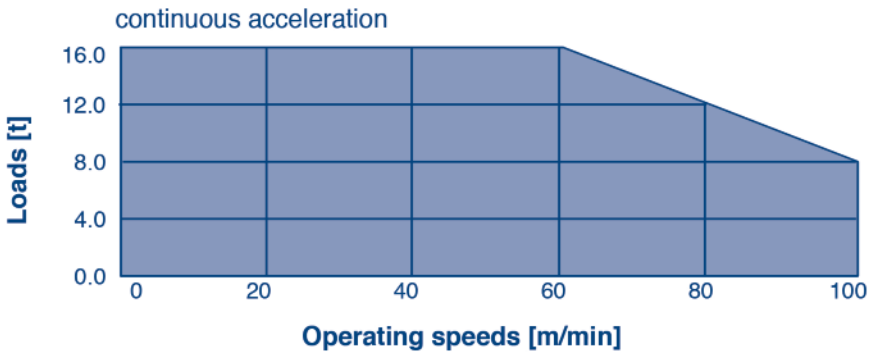
Drive [Type]	Operating speeds Load	Hook travel max. [m]	Power rating [kW]
HFU 110-80	Hoisting	250	110



	Heben	500	110



TW	Moving trolley	15

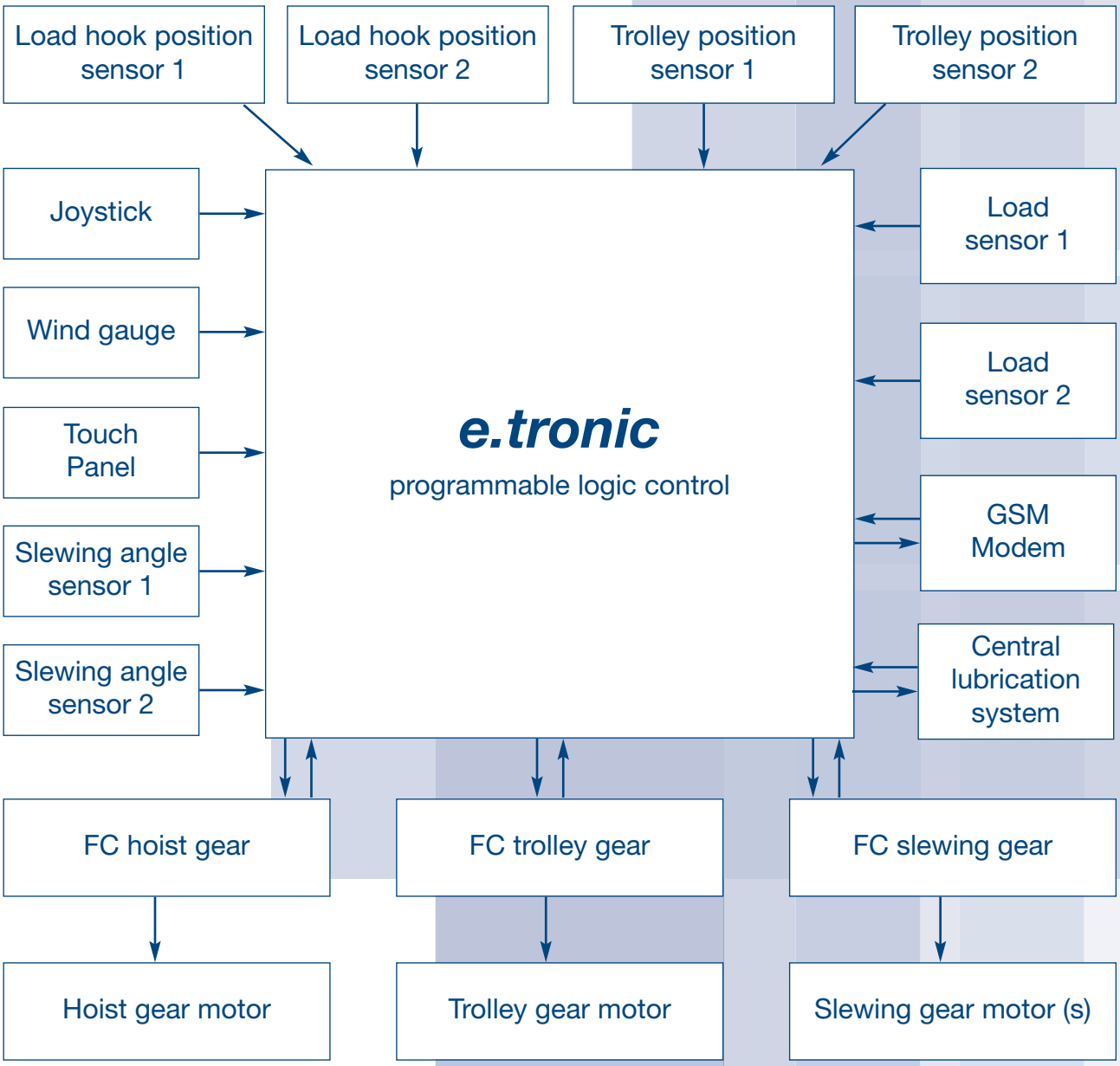


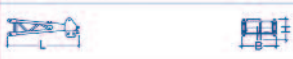
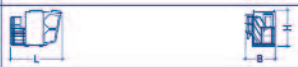
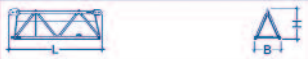
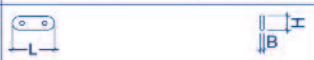
DW	Slewing	2 x 11

Total power requirement

135 kVA

Total power requirement with utilisation factor 0.8

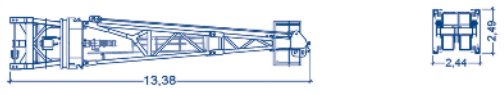
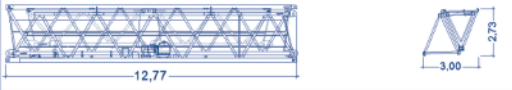
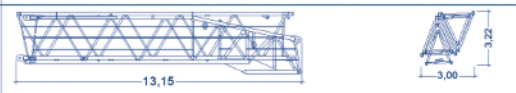


Pos.	Qty.	Description	Package List (not to scale)	Length [m]	Width [m]	Height [m]	Weight [kg]	Volume [m³]
1	1	Tower head section complete with several stay parts		13.38	2.44	2.49	20,335	81.36
	Pos. 1 zerlegt	Lower part of head section with slewing frame		4.73	2.44	2.49	13,883	28.73
		Upper part of head section complete		10.12	2.03	2.13	6,452	43.76
		Upper part of head section, part 1		6.00	2.03	2.13	3,564	25.93
		Upper part of head section, part 2		4.43	2.06	1.38	2,624	12.61
		Platform, tower head section		2.10	1.60	0.42	161	1.41
		Ascent, upper part of tower head section 2		2.21	0.77	0.74	103	1.27
2	1	Cab with cab platform		3.28	1.90	2.45	1,360	15.27
3	1	Counterjib section 1 (lower parta)		6.91	2.44	0.72	2,940	12.12
4	1	Counterjib section 2 (connecting piece)		6.90	2.44	0.72	2,444	12.10
5	1	Counterjib section 3 (upper part)		13.72	2.44	1.12	7,040	37.24
6	1	Machine platform HFU 110-80 with hoist rope		2.30	5.40	1.99	8,700	24.67
7	1	Jib section 1 with trolley gear		12.77	2.02	2.64	5,490	67.94
8	0 – 1*	Jib section 2		12.80	2.01	2.45	4,090	63.03
9	0 – 1*	Jib section 3		12.80	2.01	2.44	3,087	62.78
10	1	Jib section 4		12.80	1.96	3.09	4,588	77.47
11	1	Jib section 5		5.36	1.53	1.89	1,530	15.50
12	0 – 1*	Jib section 6		5.39	1.53	1.89	1,420	15.59
13	0 – 1*	Jib section 7		7.83	1.53	1.85	1,810	22.17
14	0 – 3*	Jib section 8		5.31	1.53	1.84	1,070	14.94
15	0 – 1*	Jib section 9		7.72	1.53	1.82	1,019	21.50
16	0 – 1*	Stay rack		8.01	1.92	1.11	705	17.09
17	1	Stay lug, jib 28		0.74	0.06	0.26	78	0.01
18	0 – 1*	Stay lug, jib 2 9		2.42	0.35	0.32	198	0.27
19	1	Stay lug, jib 5 6		2.42	0.35	0.32	192	0.27

Pos.	Qty.	Description	Package (not to scale)	Length [m]	Width [m]	Height [m]	Weight [kg]	Volume [m³]
20	1 – 2*	Stay rod, jib, 2,010 mm 1		2.35	0.23	0.32	194	0.17
21	0 – 1*	Stay rod, jib, 2,300 mm 8		2.64	0.13	0.32	223	0.11
22	0 – 1*	Stay rod, jib, 3,281 mm 5		3.62	0.13	0.30	271	0.14
23	0 – 1*	Stay rod, jib, 4,450 mm 7		4.79	0.13	0.30	333	0.19
24	0 – 1*	Stay rod, jib, 5,392 mm 4		5.73	0.13	0.32	381	0.24
25	0 – 1*	Stay rod, jib, 5,598 mm 3		5.94	0.13	0.32	391	0.25
26	4 – 7*	Stay rod, jib, 6,540 mm 2		6.88	0.13	0.30	437	0.27
27	2	Stay rod, counterjib, 3,280 mm 4		3.62	0.09	0.26	149	0.08
28	0 – 2*	Stay rod, counterjib, 6,130 mm 3		6.47	0.09	0.26	230	0.15
29	2	Stay rod, counterjib, 6,470 mm 2		6.81	0.09	0.28	242	0.17
30	2	Stay rod, counterjib, 9,150 mm 1		9.49	0.07	0.26	318	0.17
31	1	Rope swivel crossbeam		0.95	1.55	0.52	298	0.77
32	1	Trolley		2.16	2.22	1.95	1,280	9.34
33	1	Hook block		1.26	0.27	2.19	1,015	0.73
34	1	Railing (loose parts) twopart counterjib		2.65	1.10	1.76	477	5.13
35	1	Railing (loose parts) threepart counterjib		2.60	1.10	2.17	560	6.21
36	1	Concrete counterweight (under machine platform)		1.20	2.00	0.37	2,000	0.89
37	4 – 13*	Concrete counterweight		0.36	1.41	2.22	2,700	1.13

* quantity according to jib length

Transport units

Pos.	Description	Package (not to scale)	Weight [kg]	Volume [m³]
A	**Transport unit 1** Tower head section complete with ascent and platform		20,335	81.30
B	**Transport unit 2** Counterjib sections 1 and 3, trolley, cab with platform, hook block, stay rod for jib/counter-jib, counterweight machine platform 2.1 t		23,029	86.10
C	**Transport unit 3** Counterjib section 2, machine platform, stay rack		11,849	64.50
D	**Transport unit 4** 40 m jib, AL 1 with AL 8, AL 2 with AL 8 + 8, rope swivel crossbeam, all small parts		13,565	104.60
E	**Transport unit 5** 42.5 m jib, AL 3 with AL 5 + 6, AL4 with AL 7, set of railings		12,995	127.00

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