





Made in Germany




WT 1905L *e.tronic*
Product Information

Radius [m]			15	30	36	42	48	54	Load capacity [t]
Jib length [m]	54	6.0 - 22.5	80.0	59.4	49.1	41.8	36.3	32.0	
	48	5.0 - 23.0	80.0	61.2	50.9	43.5	38.0		
	42	4.5 - 24.0	80.0	63.7	52.8	45.0			
	36	4.0 - 24.5	80.0	65.0	54.0				


The loads relate to 45 m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 5-rope mode = 20.0 kg/m hook travel).

Radius [m]			15	30	36	42	48	54	60	66	72	Load capacity [t]
Jib length [m]	72	9.0 - 28.0	64.0	59.5	49.1	41.7	36.1	31.8	28.3	25.4	23.1	
	66	8.0 - 29.0	64.0	61.7	50.7	42.8	36.9	32.3	28.6	25.6		
	60	7.0 - 30.0	64.0	64.0	52.2	43.9	37.6	32.7	28.8			
	54	6.0 - 30.5	64.0	64.0	53.0	44.4	37.9	32.9				
	48	5.0 - 31.0	64.0	64.0	54.3	45.7	39.2					
	42	4.5 - 31.5	64.0	64.0	55.5	47.0						
	36	4.0 - 32.0	64.0	64.0	56.0							

The loads relate to 45 m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 4-rope mode = 16.0 kg/m hook travel).

Radius [m]			15	30	36	42	48	54	60	66	72	Load capacity [t]
Jib length [m]	72	9.0 - 38.0	48.0	48.0	48.0	43.0	37.1	32.5	28.8	25.8	23.3	
	66	8.0 - 39.0	48.0	48.0	48.0	44.2	37.9	33.0	29.2	26.0		
	60	7.0 - 40.0	48.0	48.0	48.0	45.3	38.7	33.4	29.3			
	54	6.0 - 41.0	48.0	48.0	48.0	46.6	39.2	33.5				
	48	5.0 - 42.0	48.0	48.0	48.0	48.0	40.0					
	42	4.5 - 42.0	48.0	48.0	48.0	48.0						
	36	4.0 - 36.0	48.0	48.0	48.0							

The loads relate to 45 m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 3-rope mode = 12.0 kg/m hook travel).

Ausladung [m]			15	30	36	42	48	54	60	66	72	78	Load capacity [t]
Jib length [m]	78	10.0 - 53.0	32.0	32.0	32.0	32.0	32.0	31.2	27.2	24.0	21.3	19.0	
	72	9.0 - 55.0	32.0	32.0	32.0	32.0	32.0	32.0	29.0	26.0	23.5		
	66	8.0 - 56.0	32.0	32.0	32.0	32.0	32.0	32.0	29.6	26.5			
	60	7.0 - 57.0	32.0	32.0	32.0	32.0	32.0	32.0	30.0				
	54	6.0 - 54.0	32.0	32.0	32.0	32.0	32.0	32.0					
	48	5.0 - 48.0	32.0	32.0	32.0	32.0	32.0						
	42	4.5 - 42.0	32.0	32.0	32.0	32.0							
	36	4.0 - 36.0	32.0	32.0	32.0								

The loads relate to 45 m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 2-rope mode = 8.0 kg/m hook travel).

Loads are reduced by up to 3.5t with an integrated auxiliary jib.

The WT 1905L *e.tronic* tower crane with luffing jib. Mighty. Multi-talented. An all-rounder.

Design. **Simply strong.**

It is Europe's strongest luffing jib crane. And the star of our 'Heavy Lifter' series. A unique pendular counter-ballast system reduces the torque on the tower of the WT 1905L *e.tronic*. The pendular ballast ensures the jib has the correct tension. And since stability is not a minor matter, the cross-section of the jib is rectangular rather than triangular.

Modular system. **For all eventualities.**

The WT 1905L *e.tronic*'s cleverly designed modular system can match the jib length to the task in hand – in 6 m lengths from 36 m to 78 m. Things really take off when you choose the 5 m runner head (auxiliary jib) – at a maximum jib length of 83 m, a load of up to 8 t can be lifted at a speed of up to 140 m per minute. The slewing unit can be assembled on the 3.3 m wide tower elements, which have a standard length of 5 m. As far as the base element is concerned, flexibility reigns – you can use foundation anchors as well as stationary and mobile elements.

The real size of the WT 1905L *e.tronic* is demonstrated by its maximum freestanding tower height of 65 m, which you can realise with standard tower elements and can even exceed with special wider tower elements. Just ask!

Assembly. **Solutions at their best.**

The WT 1905L *e.tronic* also shows how useful it is if sections can be disconnected. By removing just a few pins, the units are easily separated to achieve lower assembly weights if required. Moreover, hydraulic cylinders simplify the setting and extraction of the pins. The well-placed erection platforms make work easier wherever necessary. What's more, drawing in the hoist and luffing cable by means of an assembly winch is also 'a piece of cake'.

Operator cab. **A place in the sun.**

The spacious, side-mounted operator cab of the WT 1905L *e.tronic* is ergonomically designed and affords the crane operator clear visibility through 9 windows. It

also features a touch screen panel which provides him with all the important data he requires – in the language of his choice, of course. Safety is not the only aspect it excels in, but comfort, too – this is shown clearly by the control panel to manage all cabin functions, the generous storage space, heating, large number of sockets and roller blinds, as well as interior lighting and – last but not least – an ergonomically designed king-size operator's seat.

Would you rather have luxury than standard? Then our spacious deluxe operator cab holds many extras in store for you! What about separate toilet facilities with a 200 litre fresh water tank, together with a 250 litre waste water tank, and wash basin? And how about air-conditioning, visual monitoring of the hoist gear, rupture-proof roof panel with wipers and a 24 V refrigerator?

Control. **Looking ahead.**

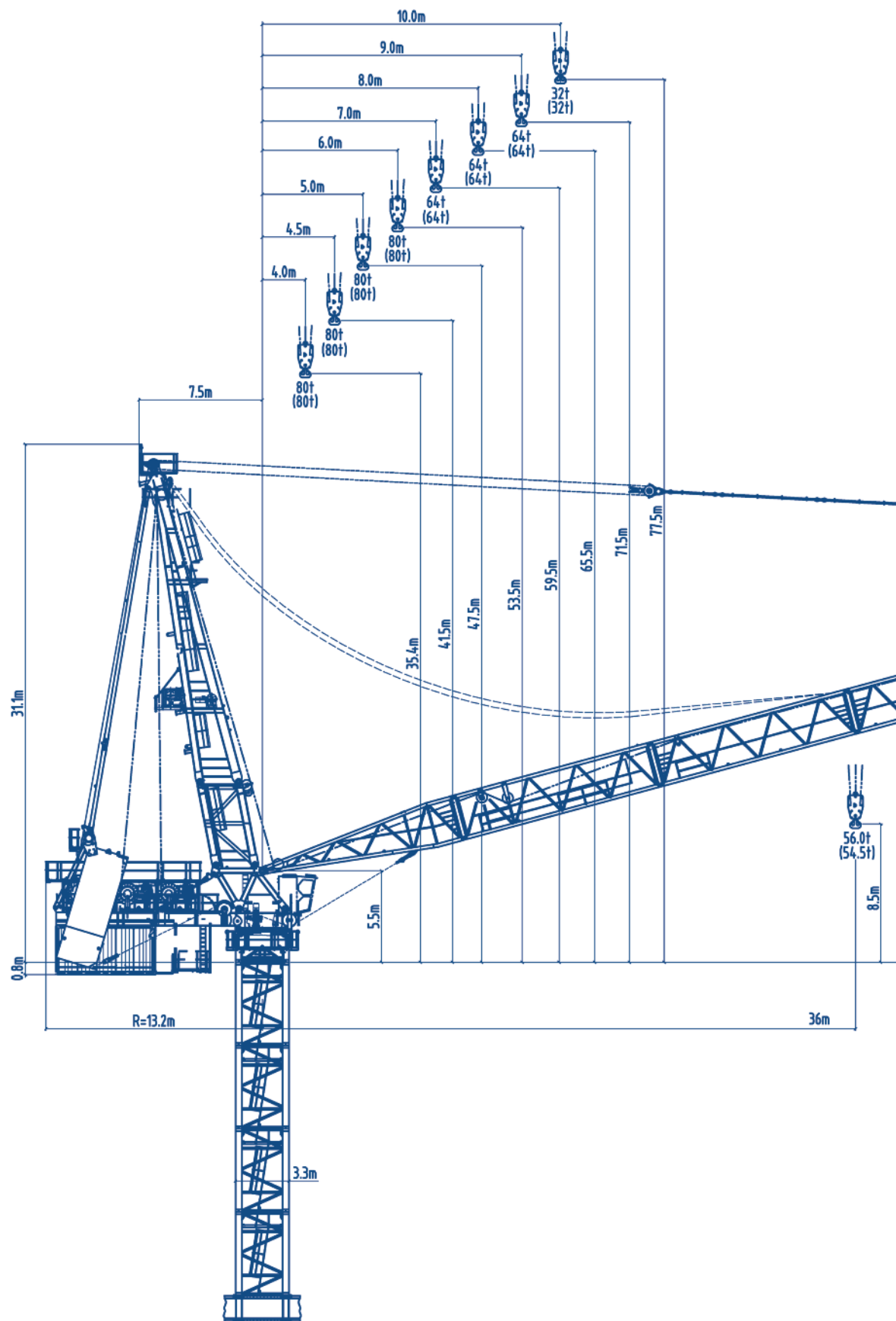
The WT 1905L *e.tronic* is equipped with the *e.tronic* programmable logic control system, featuring 230 V powerful relay switches which are rated category AC 4 – so operational wear and tear is not an issue here. The total connected load is 465 kVA. And because the entire control system is housed in an air-conditioned container, this steadfast worker can withstand even the most extreme temperatures. The safety-related measuring systems are fitted in duplicate and comply with EN ISO 13849. Since the frequency converter controlled absolute encoders are identical for all drives, they are completely interchangeable.

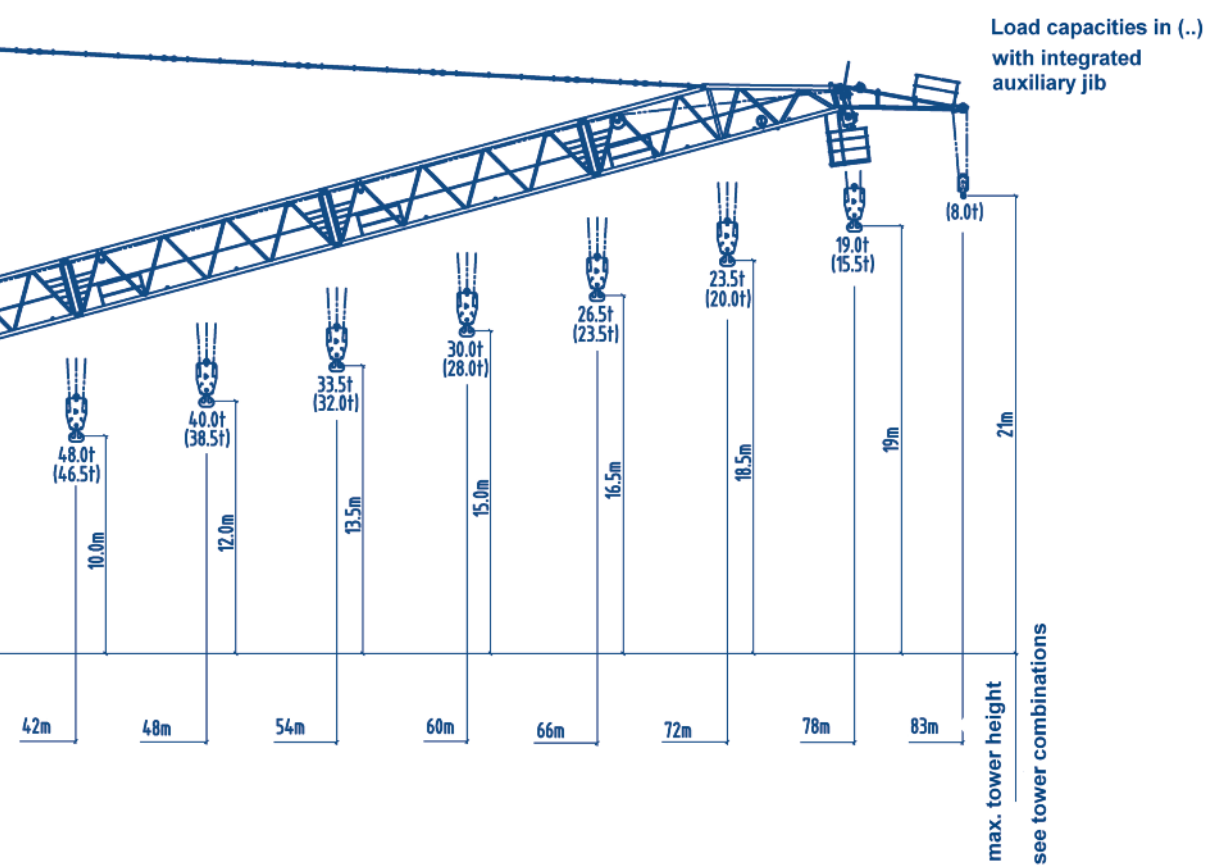
The *e.tronic* includes an operating range limit with 8 polygons each with a maximum of 8 corner points.

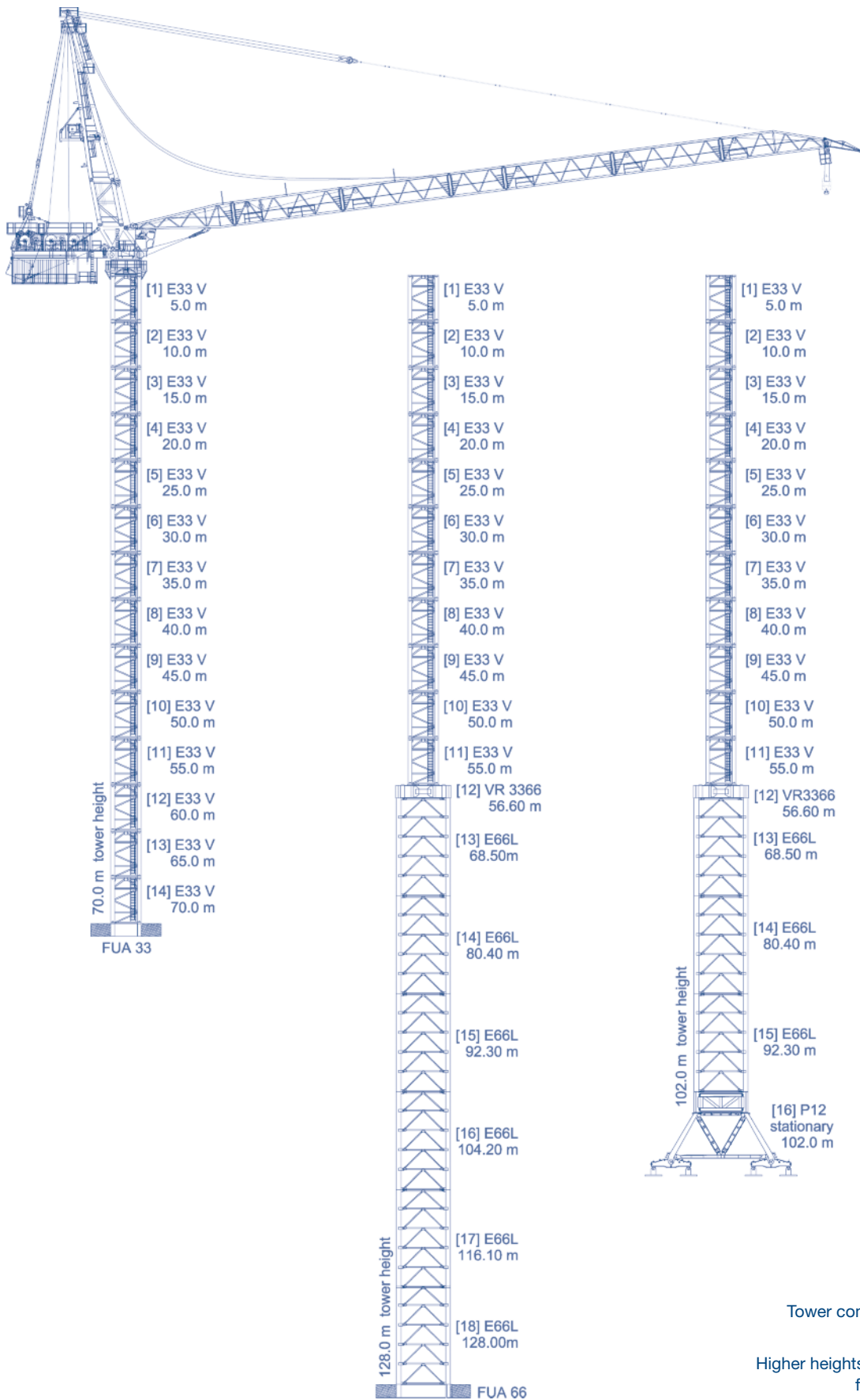
Maintenance. **Convenient false floor.**

Where's the catch? There isn't one! As the in- and output of the programmable logic control (PLC) are visible on the touch screen panel, identifying the source of a fault anywhere is quick and easy. Moreover, the components of the WT 1905L *e.tronic* are clearly set out in the electricity container. All cables are laid under a false floor – so there is no danger of tripping. The built-in telephone ensures a line of communication between container and cab.

WILBERT Tower Cranes
Layout drawing

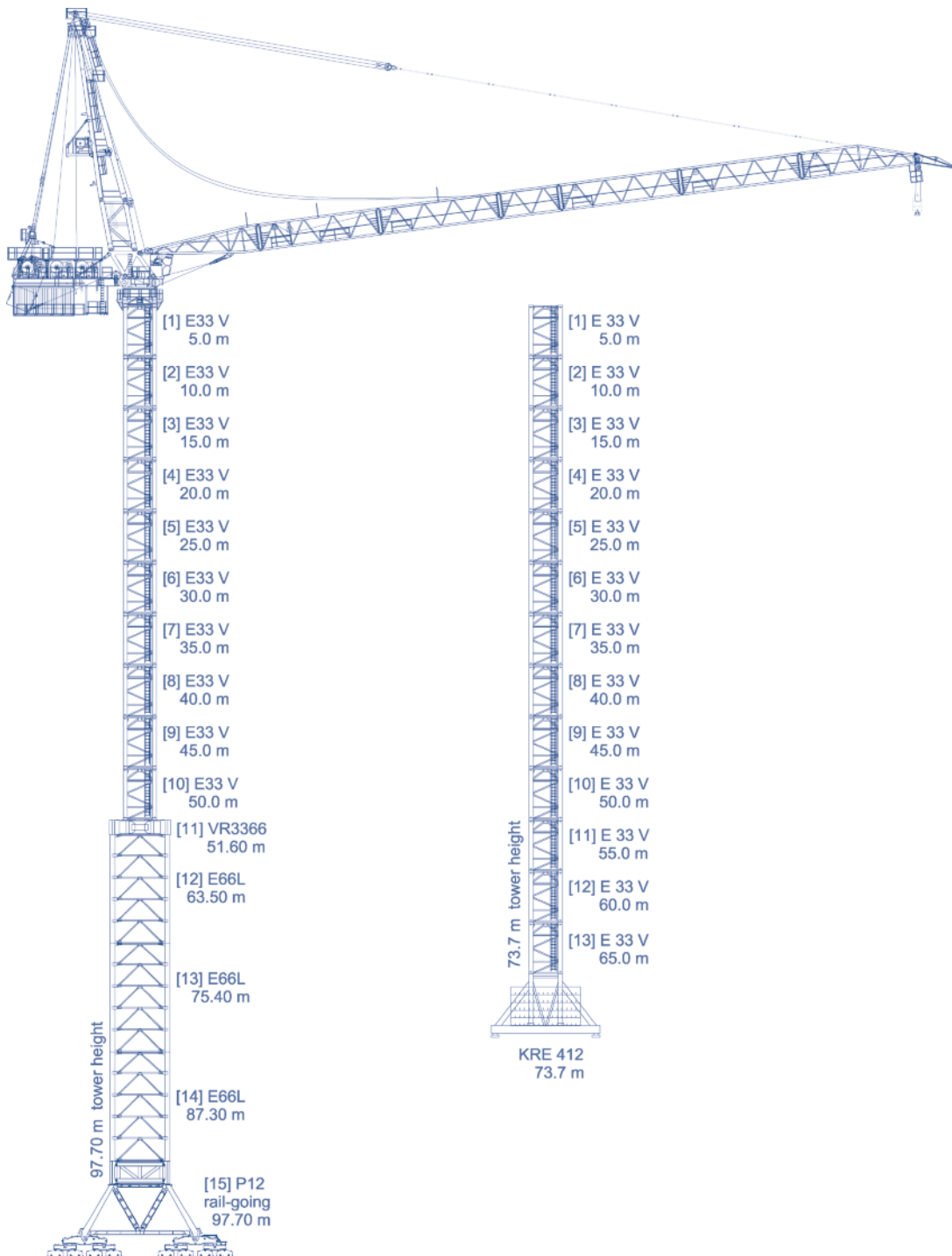






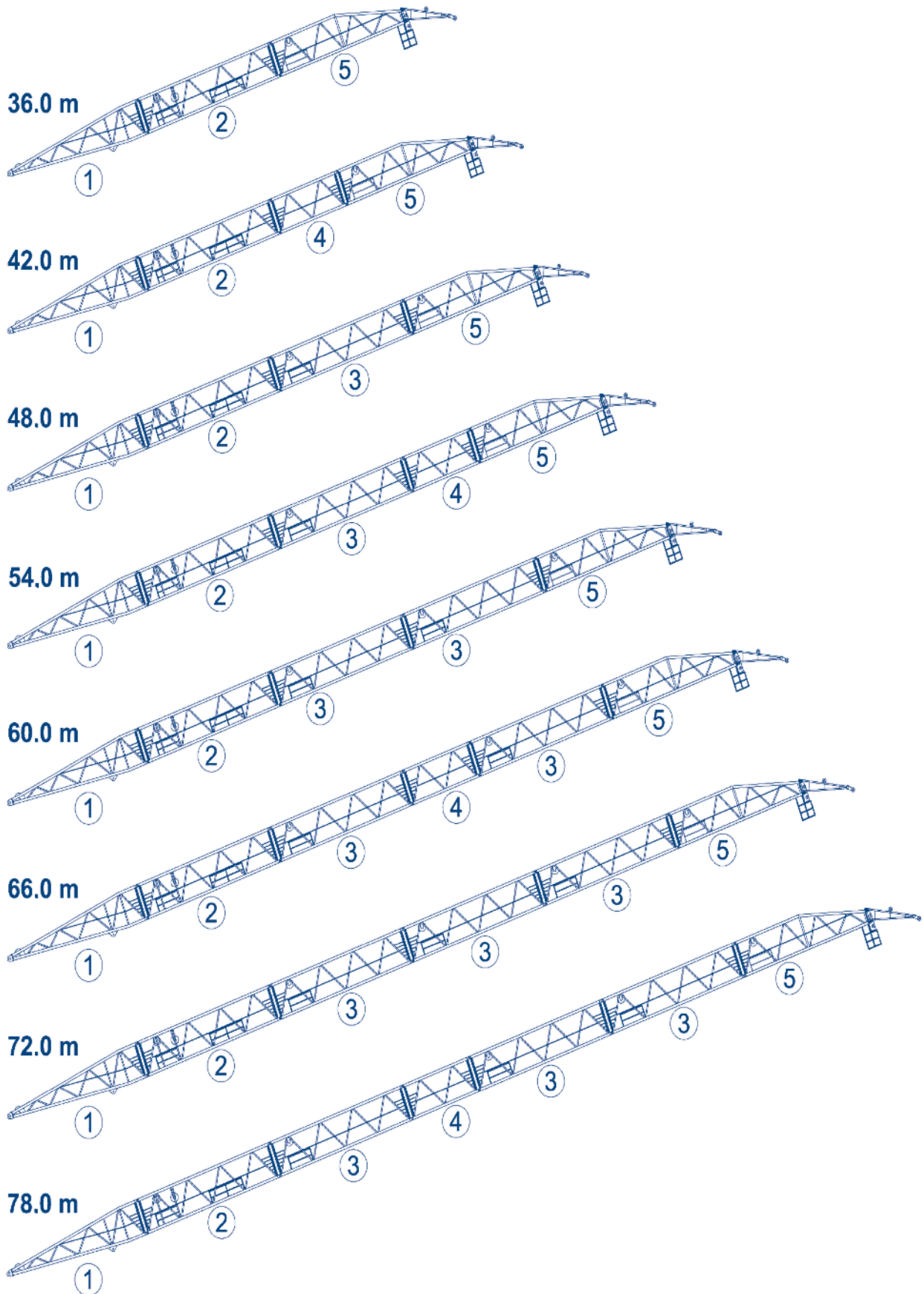
Tower combinations according to C 25 wind region.

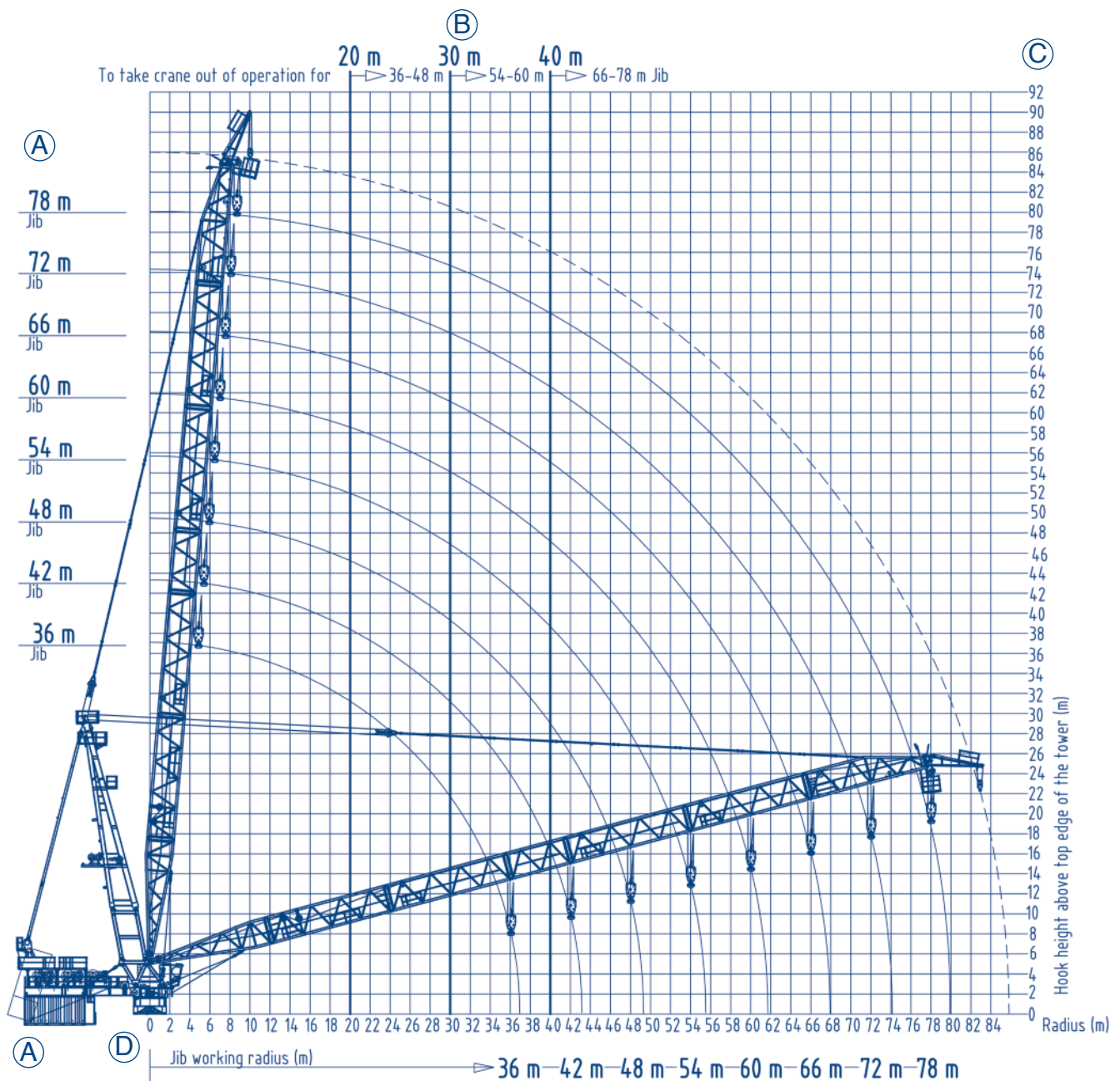
Higher heights under hook allowed for certain jib lengths.






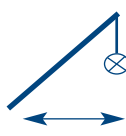

Tower combinations according to C 25 wind region.

Higher heights under hook allowed for certain jib lengths.





- A - Jib length
- B - Min. radius to take crane out of operation
- C - Under hook height above top edge of the tower
- D - Radius


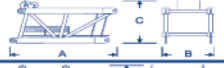
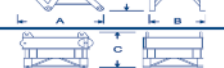


















Drive [Type]	Operating speeds				Capacity	
	Load capacity				[kW]	
HFU 140-160	Hoisting				1 x 140 kW	2 x 140 kW
	Operating speeds [m/min]* * (referring to the 3rd layer on the hoist rope drum) continuous acceleration				Hook travel max. [m]	
			1 hoist gear		2 hoist gears	
	2-rope	0 - 2t: 0 - 32t:	0 ... 171 0 ... 23	0 ... 200 0 ... 42	450	900
	3-rope	0 - 4 t: 0 - 48 t:	0 ... 114 0 ... 15		300	
	4-rope	0 - 6 t: 0 - 64 t:	0 ... 85 0 ... 11	0 ... 139 0 ... 22	225	450
	5-rope	0 - 9 t: 0 - 80 t:	0 ... 68 0 ... 6		180	
Angle	Luffing				140 kW	
	<div>Continuous acceleration</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>0.03.05.0</div> <div>Luffing period [min] from maximum to minimum radius</div>					
Angle	Slewing				2 x 15 kW	
	<div>Continuous acceleration</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>0.0up to 0.7</div> <div>Operating speeds [m/min⁻¹]</div>					
	optional 3 x 15 kW					
Total connected load						

Total connected load

1 hoist gear
310 (325*) kVA

2 hoist gears
450 (465*) kVA

Total connection value with a simulteity factor of 0.7. (* 3 slewing gears)

Pos.	Qty.	Description	Colli	A [m]	B [m]	C [m]	Weight [kg]
1	1	Upper part of tower head section, complete with 1.1 (ladders, platforms, tensioning and mounting winch)		20.00	3.10	3.00	25,000
1.1	1	Accessories of upper part of tower head section, consisting of ladders, platforms, tensioning and mounting winch					2,000
2	1	Extension of upper part of tower head section		5.85	3.10	3.70	11,000
3	1	Short head section		4.70	3.00	3.00	6,400
4	1	Lower part of tower head section with slewing gear		3.95	3.00	3.60	25,000
5	1	Cab with platform		3.80	1.70	3.10	1,300
6	1	Counterjib complete in three pieces, consisting of: 6.1, 6.2, 6.3		11.62	3.00	2.73	49,000
6.1	1	Counterjib, steel body, consisting of counterjibs 1, 2 and 3		11.62	3.00	1.20	13,800
6.2	1	Luffing gear with base section, roller block and 350 m luffing rope		2.70	2.91	2.35	12,000
6.3	1 – 2	Hoisting gear with base section and 800 m hoist rope		2.26	2.91	1.73	11,600
7	1	Crossbar		5.35	0.80	1.15	1,650
8	1	V-shaped supports 1 and 2		4.10	0.40	2.30	1,200
9	1	Electricity container		6.10	2.50	3.20	7,600
10	0 – 2	Counterweight 1		7.95	0.34	3.00	9,150
11	4 – 10	Counterweight 2 + 3		7.95	0.34	3.00	13,500
12	2	Counterweight 4 + 5		7.95	0.26	3.00	14,800
13	1	Jib section 1 with roller cross beam of counterjibs		12.70	3.10	2.75	6,820
14	1	Jib section 2		12.60	2.85	2.75	7,200
15	0 – 3	Jib section 3		12.60	2.85	2.75	6,000
16	0 – 1	Jib section 4		6.50	2.85	2.75	3,300
17	0 – 1	Jib section 5 with jib head cross beam		12.60	2.85	3.75	9,300
18	0 – 1	Auxiliary jib (optional)		6.50	1.40	1.10	850
19	0 – 1	Load hook 80 t		1.15	0.54	2.15	2,600
20	0 – 1	Load hook 128 t		1.15	0.80	2.65	5,310
21	0 – 1	Auxiliary hoisting with platform (optional)		3.10	1.90	1.50	2,450

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