




Jib length [m]	Radius [m]		 128.0	15	30	36	42	Load capacity [t]
	42	4.5 - 19.0			128.0	79.8	65.9	
36	4.0 - 19.5		128.0	81.4	67.0			


The loads relate to 45m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 8 fall rope = 32.0 kg/m hook travel).

Jib length [m]	Radius [m]		 96.0	15	30	36	42	48	54	Load capacity [t]
	54	6.0 - 20.5			96.0	65.6	54.7	46.9	41.0	
48	5.0 - 22.5		96.0	72.0	60.0	51.4	45.0			
42	4.5 - 24.5		96.0	78.6	65.6	56.4				
36	4.0 - 25.5		96.0	81.3	67.5					


The loads relate to 45m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 6 fall rope = 24.0 kg/m hook travel).

Jib length [m]	Radius [m]		 64.0	15	30	36	42	48	54	60	66	72	Load capacity [t]
	72	9.0 - 30.0			64.0	64.0	52.5	44.2	38.0	33.2	29.4	26.2	
66	8.0 - 31.0		64.0	64.0	54.5	46.2	40.0	35.1	31.2	28.0			
60	7.0 - 32.0		64.0	64.0	56.2	47.4	40.8	35.6	31.5				
54	6.0 - 33.0		64.0	64.0	58.2	49.2	42.4	37.2					
48	5.0 - 34.0		64.0	64.0	60.4	51.9	45.5						
42	4.5 - 36.0		64.0	64.0	64.0	56.8							
36	4.0 - 36.0		64.0	64.0	64.0								

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

Jib length [m]	Radius [m]		 48.0	15	30	36	42	48	54	60	66	72	Load capacity [t]
	72	9.0 - 40.0			48.0	48.0	48.0	45.4	38.9	33.9	29.9	26.5	
66	8.0 - 40.5		48.0	48.0	48.0	46.2	40.0	35.2	31.4	28.3			
60	7.0 - 41.0		48.0	48.0	48.0	46.8	40.5	35.6	31.8				
54	6.0 - 41.5		48.0	48.0	48.0	47.4	41.8	37.5					
48	5.0 - 42.0		48.0	48.0	48.0	48.0	46.0						
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 45m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 3 fall rope = 12.0 kg/m hook travel).

Jib length [m]	Radius [m]		 32.0	15	30	36	42	48	54	60	66	72	78	Load capacity [t]
	78	10.0 - 55.0			32.0	32.0	32.0	32.0	32.0	32.0	32.0	28.4	24.9	
72	9.0 - 57.0		32.0	32.0	32.0	32.0	32.0	32.0	32.0	30.0	26.7	24.0		
66	8.0 - 59.0		32.0	32.0	32.0	32.0	32.0	32.0	32.0	31.4	28.5			
60	7.0 - 60.0		32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0				
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 45m hook travel. For longer hook travel distances, the loads are reduced by the additional weight of the hoist rope (with 2 fall rope = 8.0 kg/m hook travel).

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



## The WT 2405L *e.tronic* tower crane with luffing jib. Strong. Stronger. Strongest.

### Design. Simply strong.

It is Europe's strongest luffing jib crane. And the star of our "Heavy Lifter" series. A unique pendular counterballast system reduces the torque on the tower of the WT 2405L *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 2405L *e.tronic*'s cleverly designed modular system can match the jib length to the task in hand – from 36 m to 78 m. Things really take off when you choose the 5 m runner head (fly 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 5m. As far as the base element is concerned, flexibility reigns – foundation anchors as well as stationary and mobile elements are available.

The real size of the WT 2405L *e.tronic* is demonstrated by its maximum freestanding tower height of 65 m, realised with standard tower elements. Higher freestanding under hook heights are possible with special tower elements. Just ask!

### Assembly. Solutions at their best.

The WT 2405L *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 2405L *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 we attach great importance to, 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?

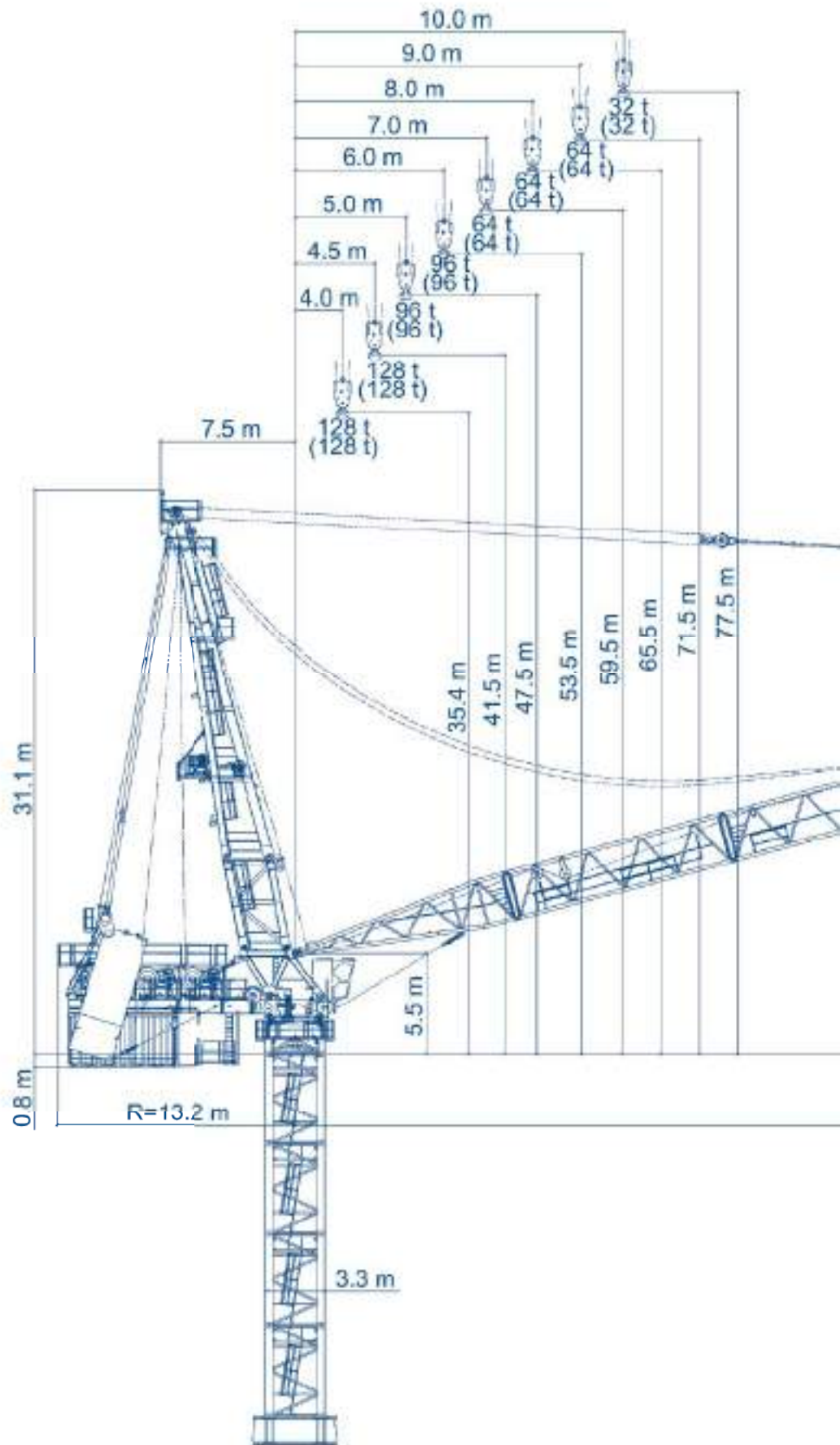
### Control. Looking ahead.

The WT 2405L *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 thus ensure that DIN EN 954/3 is complied with. 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 of 8 corner point each.

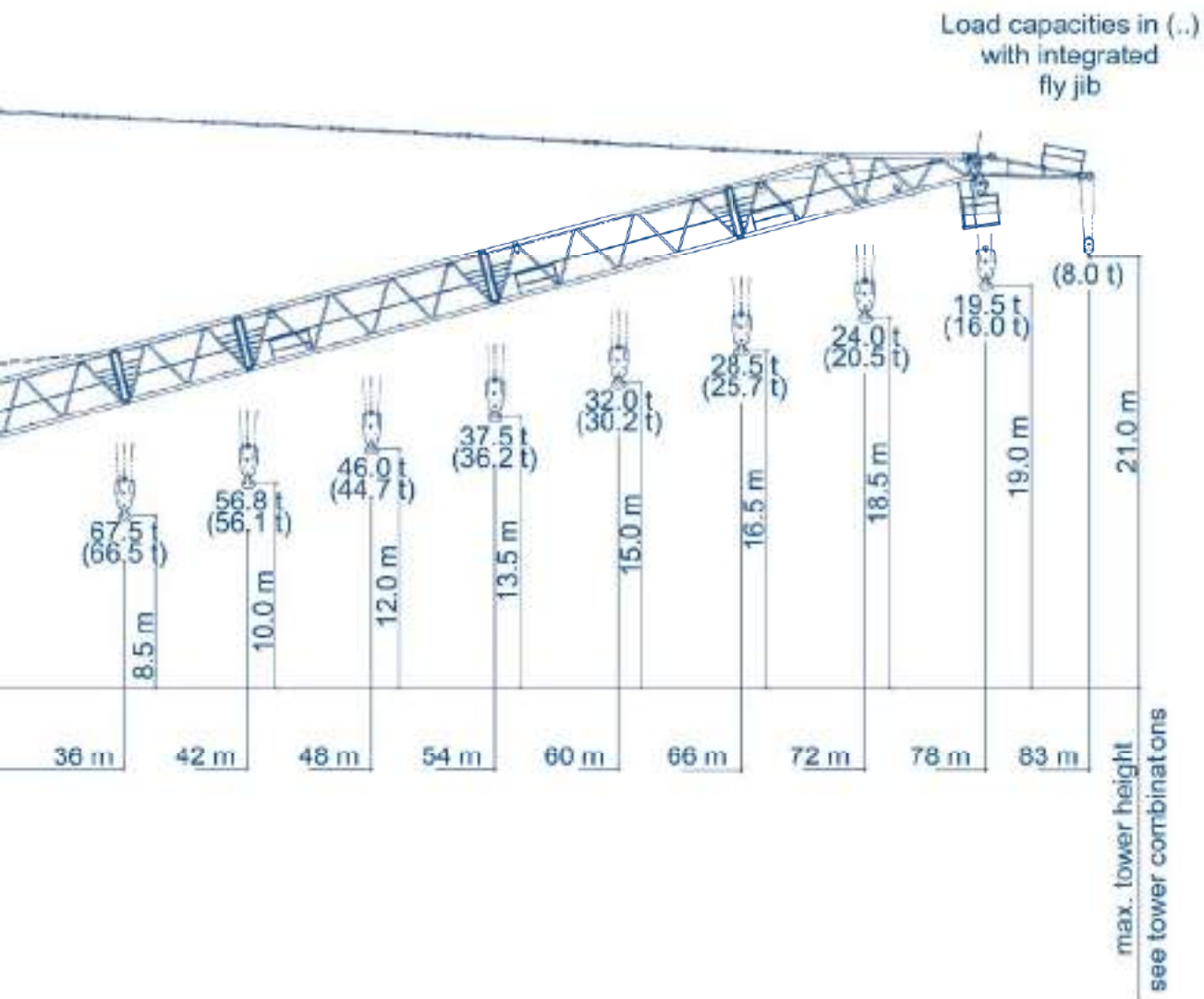
### Maintenance. Convenient false floor.

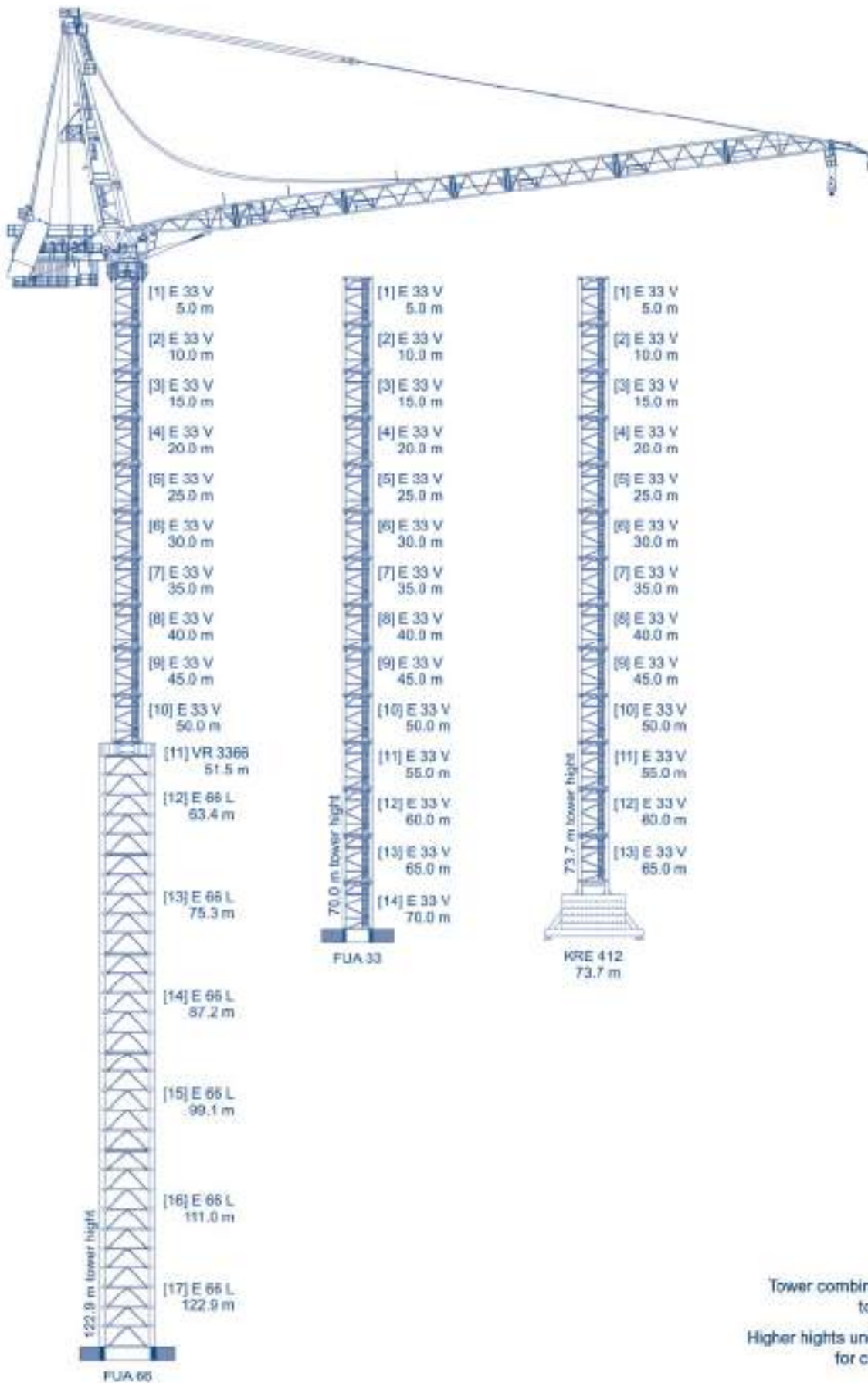
Where's the catch? There isn't one! As the in- and output of the programmable logic control (PLC) are visible on the touch screen panel, identifying the source if there is a fault anywhere, is quick and easy. Moreover, the components of the WT 2405L *e.tronic* are clearly set out in the electrics container. 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

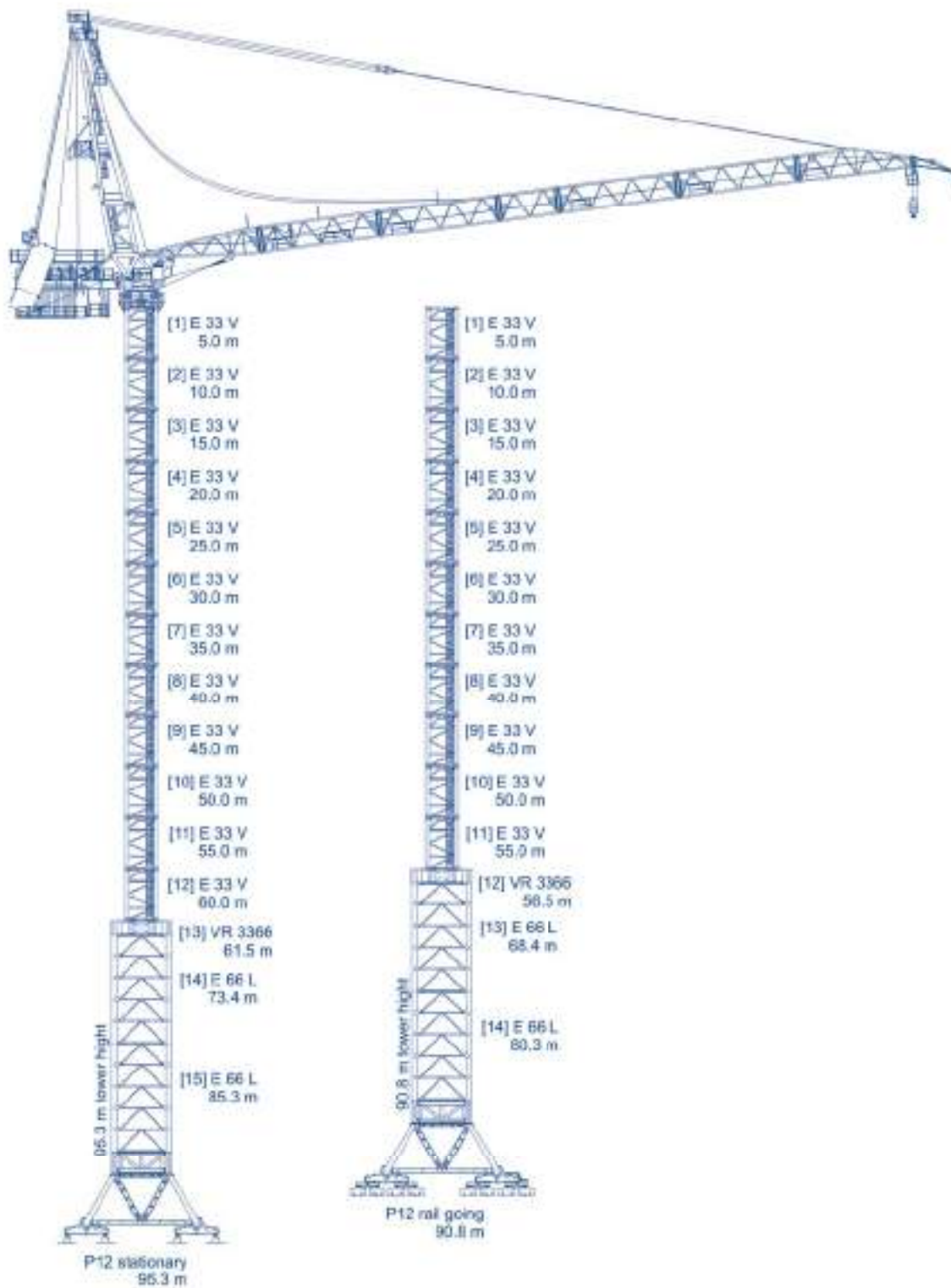




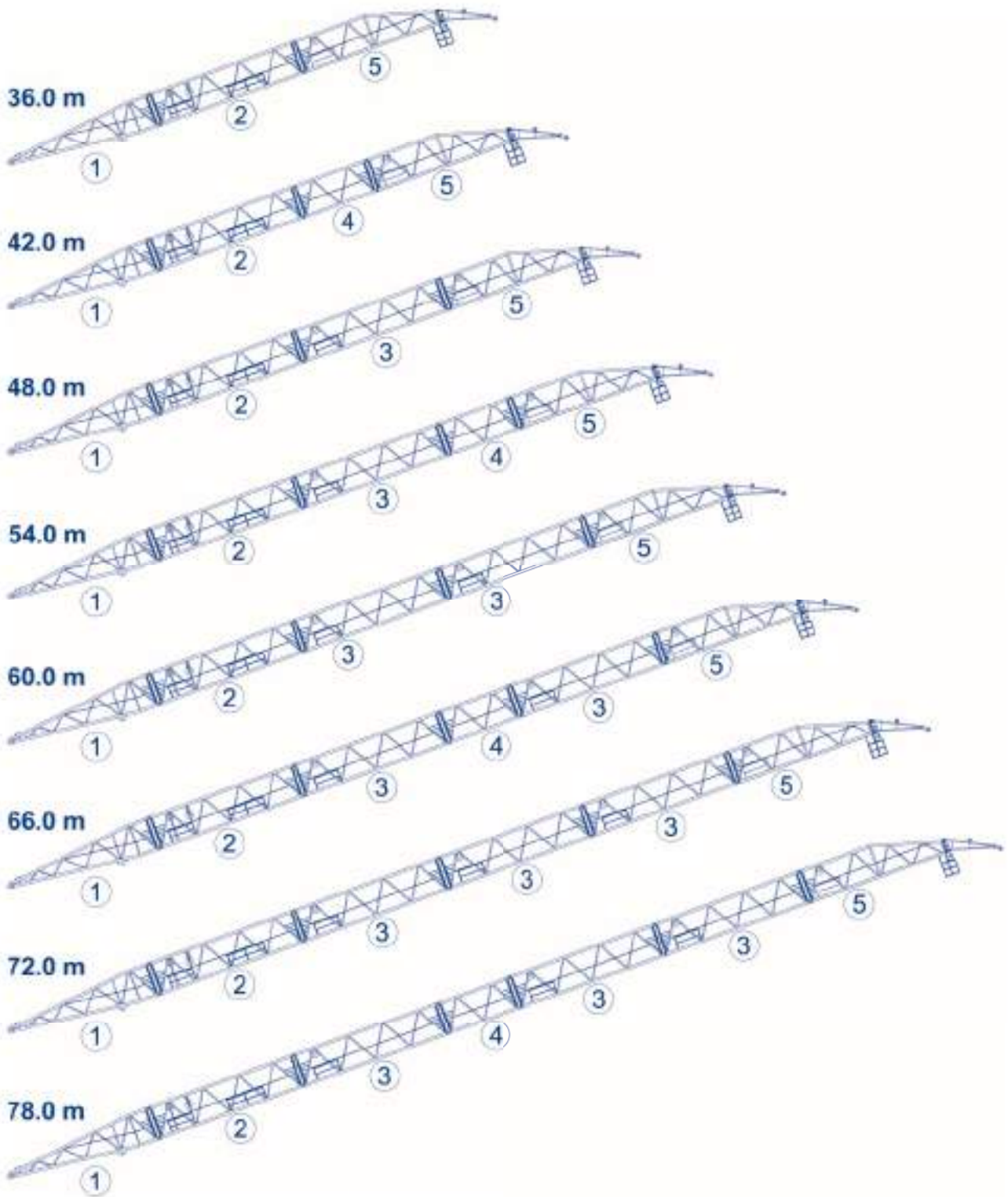




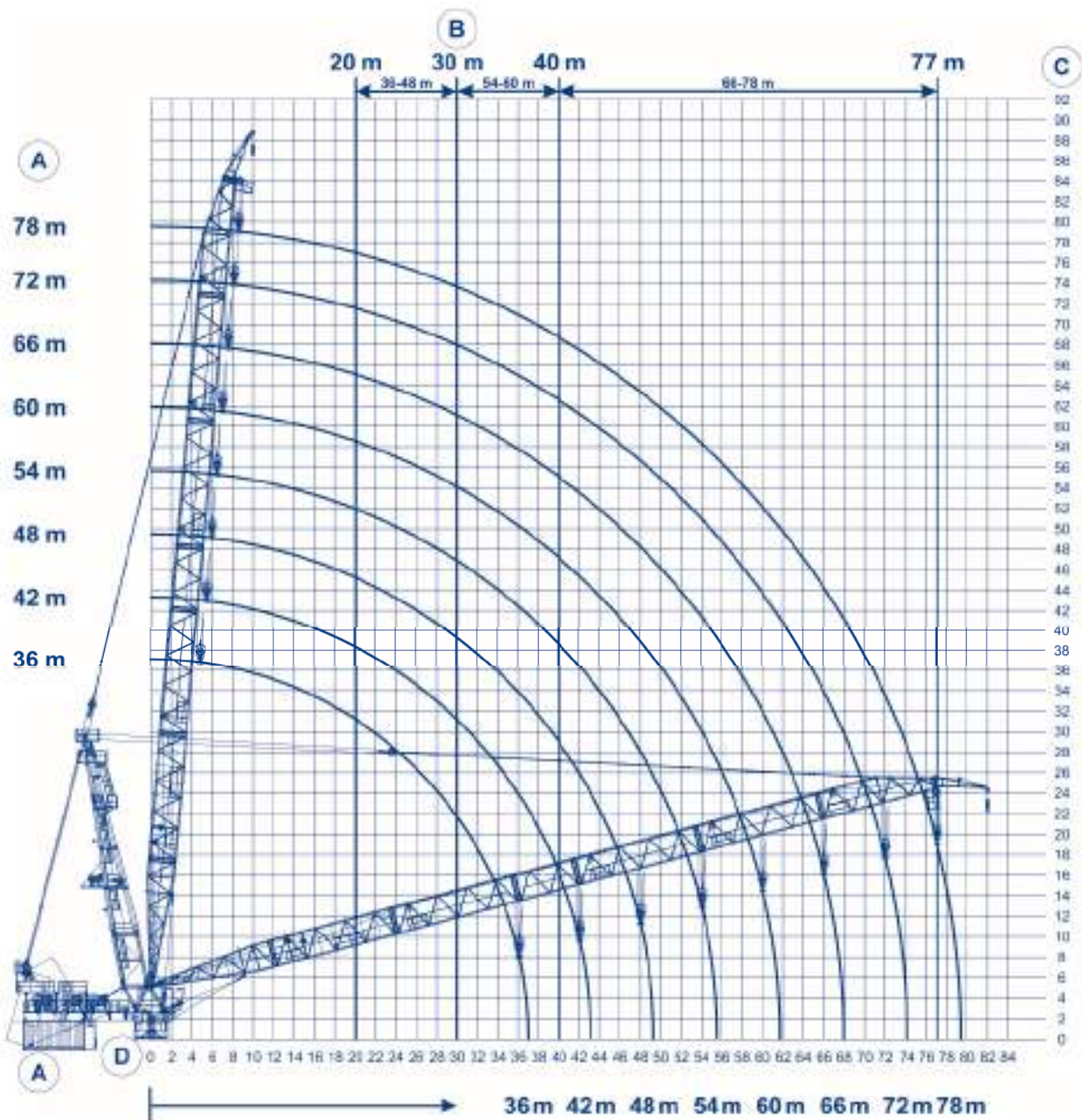
Tower combinations according to C 25 wind data.  
Higher heights under hook allowed for certain jib lengths.



Tower combinations according to C 25 wind data.  
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 Load capacity	Capacity [kW]																																			
HFU 140-160	Hoisting	1 x 140 kW	2 x 140 kW																																		
	<p>Operating speeds [m/min]* * (referring to the 4th layer on the hoist rope drum) continuous acceleration:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>1 hoist gear</th> <th>2 hoist gears</th> <th colspan="2">Hook travel max. [m]</th> </tr> </thead> <tbody> <tr> <td rowspan="2"></td> <td>2 fall</td> <td>0 - 2 t: 0 - 32 t:</td> <td>0 ... 171 0 ... 23</td> <td>0 ... 200 0 ... 42</td> <td>450</td> <td>900</td> </tr> <tr> <td rowspan="2"></td> <td>4 fall</td> <td>0 - 6 t: 0 - 64 t:</td> <td>0 ... 85 0 ... 11</td> <td>0 ... 139 0 ... 22</td> <td>225</td> <td>450</td> </tr> <tr> <td rowspan="2"></td> <td>6 fall</td> <td>0 - 11 t: 0 - 96 t:</td> <td>0 ... 57 0 ... 8</td> <td>0 ... 96 0 ... 15</td> <td>150</td> <td>300</td> </tr> <tr> <td rowspan="2"></td> <td>8 fall</td> <td>0 - 15 t: 0 - 128 t:</td> <td>0 ... 42 0 ... 6</td> <td>0 ... 77 0 ... 10</td> <td>112</td> <td>225</td> </tr> </tbody> </table>			1 hoist gear	2 hoist gears	Hook travel max. [m]			2 fall	0 - 2 t: 0 - 32 t:	0 ... 171 0 ... 23	0 ... 200 0 ... 42	450	900		4 fall	0 - 6 t: 0 - 64 t:	0 ... 85 0 ... 11	0 ... 139 0 ... 22	225	450		6 fall	0 - 11 t: 0 - 96 t:	0 ... 57 0 ... 8	0 ... 96 0 ... 15	150	300		8 fall	0 - 15 t: 0 - 128 t:	0 ... 42 0 ... 6	0 ... 77 0 ... 10	112	225		
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WW		Luffing	140 kW																																		
	<p>Continuous acceleration</p>  <p>Operating speeds [min] from max. radius to min. radius</p>																																				
DW	Slewing	2 x 15 kW optional 3 x 15 kW																																			
	<p>Continuous acceleration</p>  <p>Operating speeds [min<sup>-1</sup>]</p>																																				
<b>Total connected load</b>																																					
	1 hoist gear	2 hoist gears																																			
	310 (325) kVA	450 (465) kVA																																			
Total connected load at utilisation factor 0.7																																					

Item	Qty.	Description	Package (not to scale)	L [m]	B [m]	H [m]	Weight [kg]
1	1	Upper part of lower head section, complete with ladders, platforms, jib stay and winch assembly		20.00	3.10	3.00	27,000
2	1	Extension of upper part of tower head		5.85	3.10	3.40	11,000
3	1	Short tower head		4.70	3.00	3.00	6,400
4	1	Lower part of the tower head section with slewing gear		3.95	3.00	3.60	25,000
5	1	Cab with cab platform		3.80	1.70	3.10	1,300
6	1	Counter jib complete 3 pieces		11.62	3.00	2.73	49,000
7	1-2	Hoisting gear with base section and 800 m hoist rope		2.26	2.91	1.73	11,600
8	1	Luffing gear with base section and 350 m luffing rope		2.70	2.91	2.35	12,000
9	1	Crossbar		5.35	0.80	1.15	1,650
10	1	"V" support 1 and 2		4.10	0.40	2.30	1,200
11	1	Electrics container		6.10	2.50	3.20	7,600
12	0-2	Counterweight 1		7.95	0.34	3.00	9,150
13	4-10	Counterweights 2+3		7.95	0.34	3.00	13,500
14	2	Counterweights 4+5		7.95	0.26	3.00	14,800
15	1	Jib section 1 with wheel base for counterweights		12.70	3.10	2.75	6,820
16	1	Jib section 2		12.60	2.85	2.75	7,200
17	0-3	Jib section 3		12.60	2.85	2.75	6,000
18	0-1	Jib section 4		6.50	2.85	2.75	3,300
19	0-1	Jib section 5 with jib head section		12.60	2.85	3.75	9,300
20	0-1	Fly jib (optional)		6.50	1.40	1.10	850
21	0-1	Load hook 80 t		1.15	0.54	2.15	2,600
22	0-1	Load hook 128 t		1.15	0.80	2.65	5,310
23	0-1	Hoisting gear with platform (optional)		3.10	1.90	1.50	2,450