





Made in Germany




WT 2405L *e.tronic*
Product Information

Jib length [m]	Radius [m]			15	30	36	42	Load capacity [t]
	48	4.5 - 19.0		128.0	79.8	65.9	56.0	
	42	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 = 32.0kg/m hook travel).

Jib length [m]	Radius [m]			15	30	36	42	48	54	Load capacity [t]
	54	6.0 - 20.5		96.0	65.6	54.7	46.9	41.0	36.5	
	48	5.0 - 22.0		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 = 24.0kg/m hook travel).

Jib length [m]	Radius [m]			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	23.6	
	66	8.0 - 31.0		64.0	64.0	54.5	46.2	40.8	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 = 16.0kg/m hook travel).

Jib length [m]	Radius [m]			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	23.8	
	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 = 12.0kg/m hook travel).

Jib length [m]	Radius [m]			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	28.4	24.9	22.0	19.5	
	72	9.0 - 57.5		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	31.4	28.5			
	60	7.0 - 60.0		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							

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 = 8.0kg/m hook travel).

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

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 counter-ballast 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 36m to 78m. Things really take off when you choose the 5m runner head – at a maximum jib length of 83m, a load of up to 8t can be lifted at a speed of up to 140m per minute. The slewing unit can be assembled on the 3.3m 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 65m, 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 a winch assembly 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?

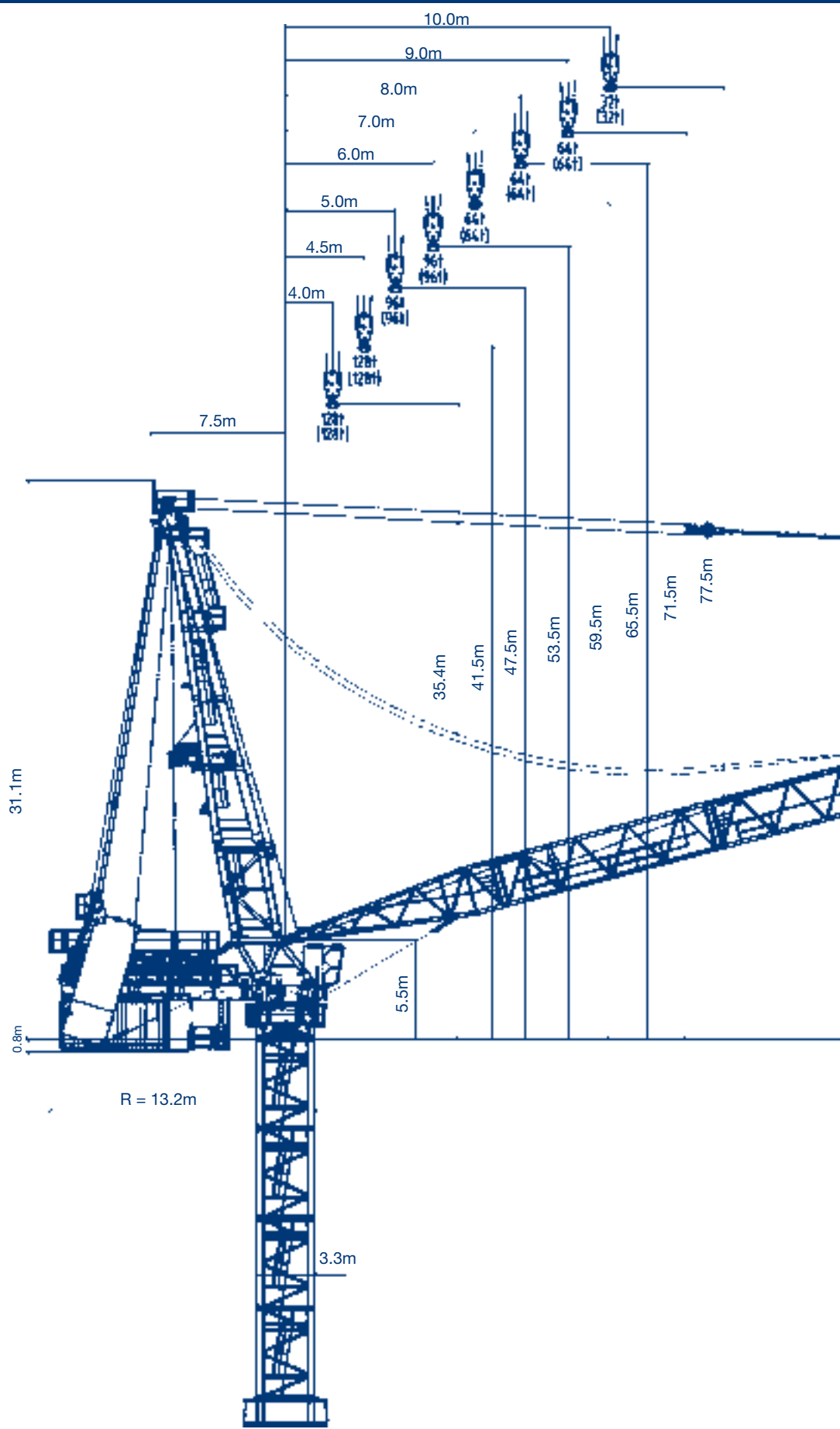
Control. Looking ahead.

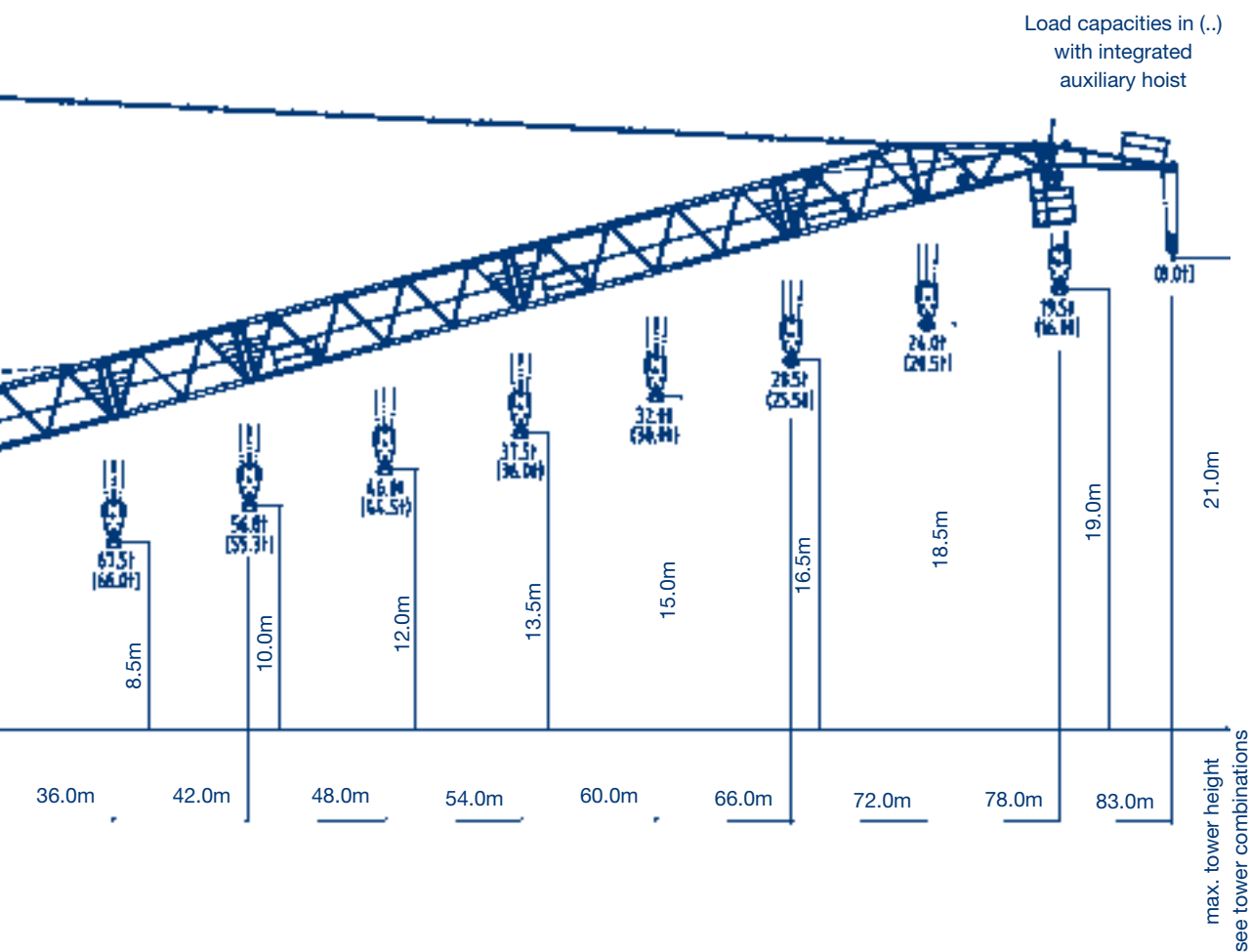
The WT 2405L *e.tronic* is equipped with the *e.tronic* programmable logic control system, featuring 230 V powerful relay switches which are rated category AC 4 – so operational wear and tear is not an issue here. The total connected load is 240 kVA. And because the entire control system is housed in 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.

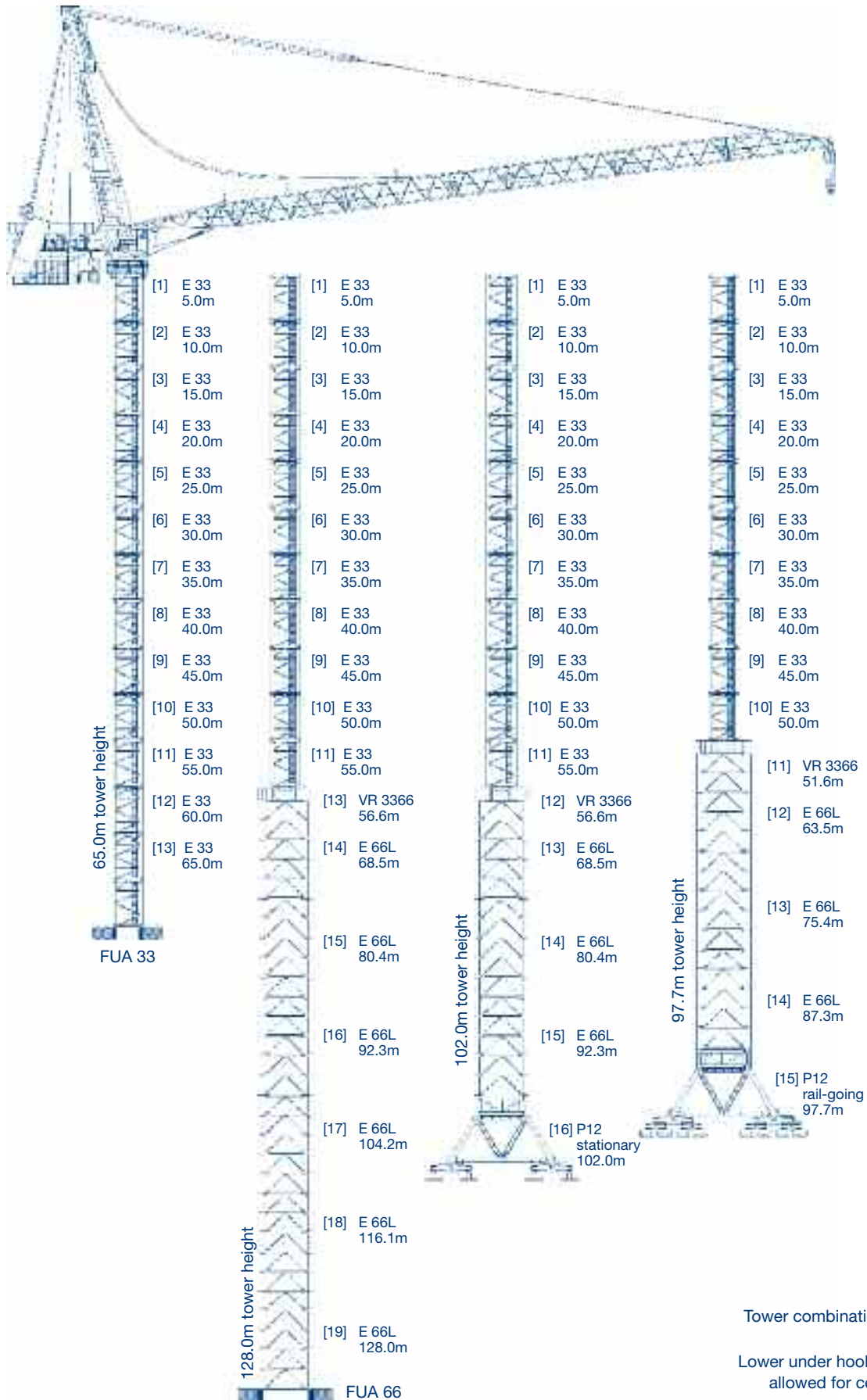
Maintenance. Convenient false floor.

Where's the catch? There isn't one! As the in- and outputs 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.

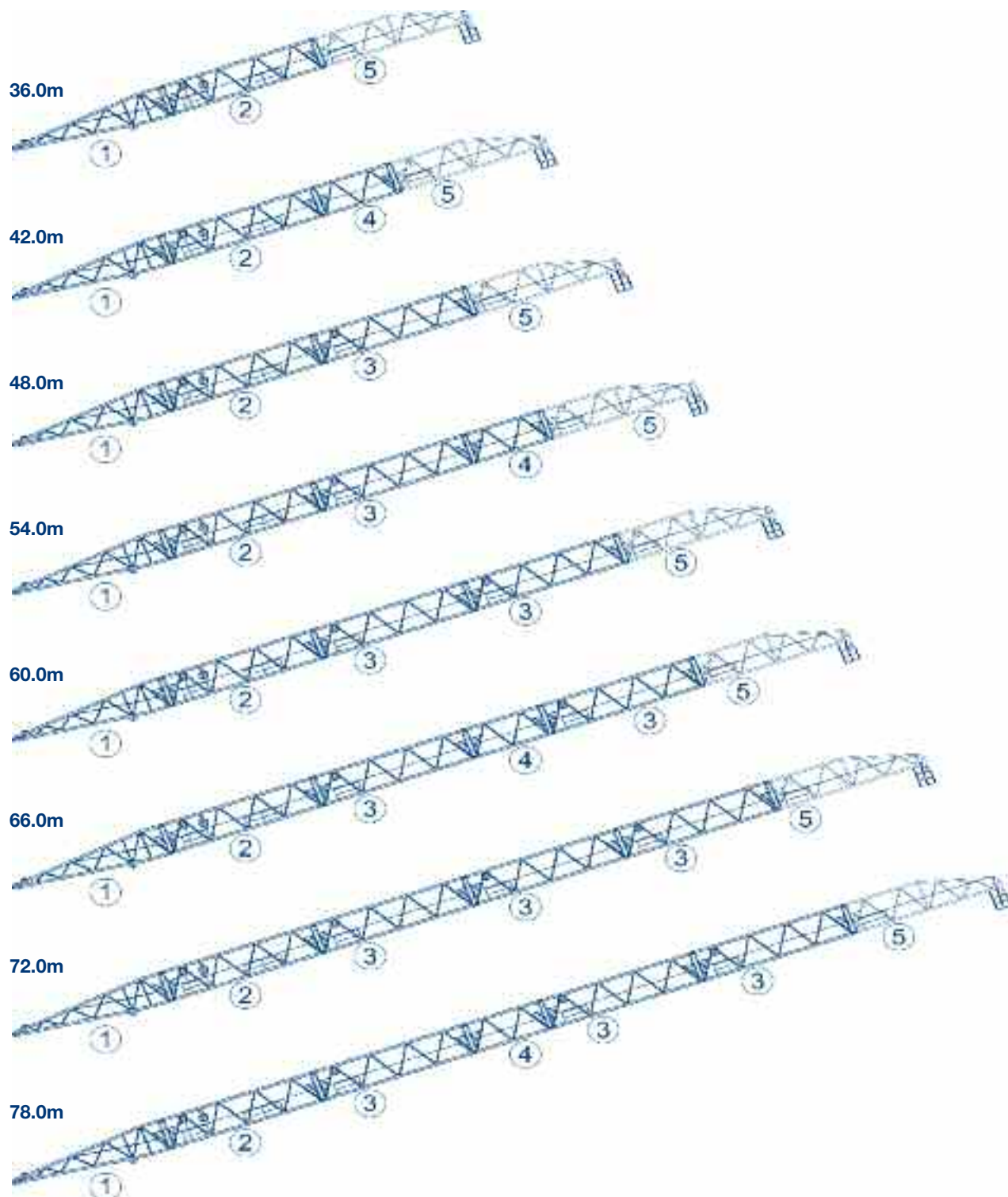
WILBERT Tower Cranes
Layout drawing

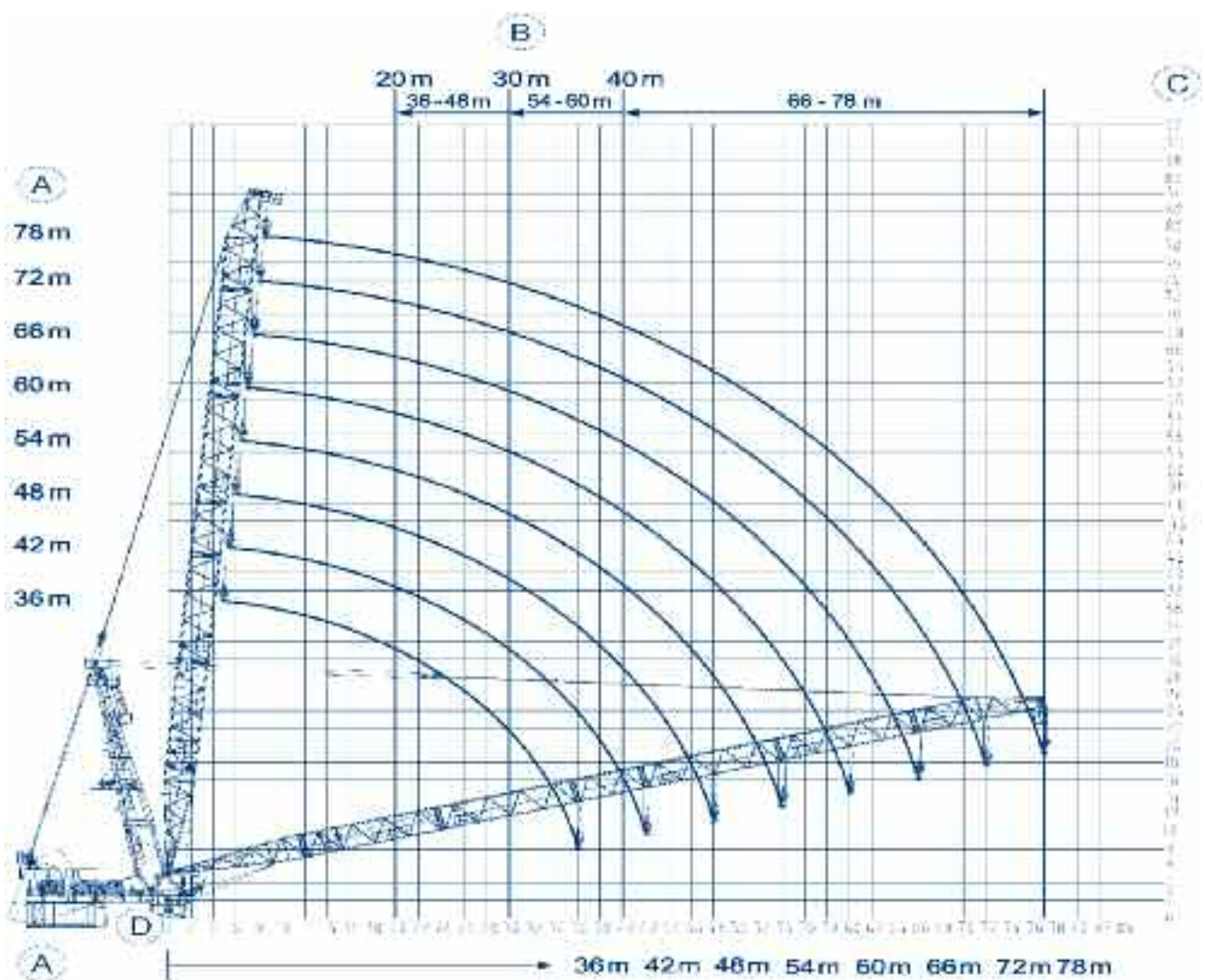








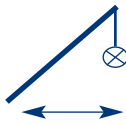






































Tower combinations according to
C 25 wind data.
Lower under hook heights may be
allowed for certain jib lengths.

































- 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	
   	Operating speeds [m/min]* * (referring to the 4th layer on the hoist rope drum) continuous acceleration					Hook travel max. [m]		
	2 fall	0 - 2t:	1 hoist gear		2 hoist gears		450	900
		0 - 32t:	0 ... 171 0 ... 23	0 ... 200 0 ... 42				
	4 fall	0 - 6t:	0 ... 85 0 ... 11	0 ... 139 0 ... 22	225	450		
		0 - 64t:						
	6 fall	0 - 11t:	0 ... 57 0 ... 8	0 ... 96 0 ... 15	150	300		
		0 - 96t:						
	8 fall	0 - 15t:	0 ... 42 0 ... 6	0 ... 77 0 ... 10	112	225		
		0 - 128t:						
	WW	Luffing					140 kW	
		<div>Continuous acceleration</div> <div></div> <div>0.0 3.0 5.0</div> <div>Operating speeds [m/min] from max. radius to min. radius</div>						
	DW	Siewing					2 x 15 kW	
	optional 3 x 15 kW							
	<div>Continuous acceleration</div> <div></div> <div>0.0 up to 0.7</div> <div>Operating speeds [m/min⁻¹]</div>							
	Total connected load							
1 hoist gear		2 hoist gears						
310 (325) kVA		450 (465) kVA						
Total connected load at utilisation factor 0.7								

Pos.	Qty.	Description	Package (not to scale)	A [m]	B [m]	C [m]	Weight [kg]
1	1	Upper part of tower head section, complete with ladders, platforms, jib stay and winch assembly		20.0	3.10	3.0	25,000
2	1	Extension of upper part of tower head		5.85	3.10	3.70	11,000
3	2	Extension of upper part of tower head - stay rod		5.680	0.34	0.26	330
4	1	Short tower head		4.7	3.0	3.0	6,400
5	1	Lower part of the tower head section with slewing gear		3.95	3.25	3.6	25,000
6	2	Erection platform for tower head section		4.35	2.175	2.25	475
7	1	Cab with cab platform		3.8	1.4	3.2	1,300
8	1	Counter jib with hoist and luffing gear, roller block, railings		11.25	3.0	4.1	49,000
9	1-2	Hoisting gear with base section, without rope		2.26	2.91	175	6,120
10	1	Luffing gear with base section and roller block		2.70	2.91	2.35	7,150
11	1	Counter jib section 1		6.0	3.0	1.2	2,200
12	1	Counter jib section 2 with assembly stay		2.40	3.0	1.2	3,200
13	1	Counter jib section 3 with assembly stay		6.0	3.0	1.2	5,350
14	1+1	Sheaves for cable to adjust the counterweights (right/left)		1.02	0.5	1.65	270
15	1	Counter jib, catwalk 1		6.85	0.75	0.3	80
16	1	Counter jib, catwalk 2		1.65	0.75	0.3	53
17	1	Counter jib, catwalk 3		2.5	0.75	0.3	78
18	1	Counter jib, frame 1		1.83	0.80	0.32	80
19	1	Counter jib, frame 2		1.81	0.46	0.06	65
20	1	Counter jib, frame 3		1.83	0.8	0.33	80
21	1	Counter jib, frame 4		1.83	0.80	0.42	82
22	1	Counter jib, ladder to erection platform		1.92	0.61	0.05	32
23	1	Bearing block for counterweights		5.35	1.15	1.15	1,650
24	1	"V" support 1		5.11	0.40	2.30	1,200
25	1	"V" support 2		5.11	0.40	2.30	1,200
26	1	Horizontals for bearing block		2.6	0.14	0.55	60
27	12	Diagonals for bearing block		2.5	0.14	0.35	44
28	1	Erection platform for bearing block		4.60	0.85	1.20	240
29	1	Electrics container		6.10	2.50	3.20	7,600
30	1+1	Electrics container, platforms 1+2		1,22	1,25	0,25	70
31	1+1	Electrics container, platforms 3+7		1,08	1,95	0,25	107
32	4	Electrics container, platform 4		1,06	1,95	0,25	114
33	2	Electrics container, platform 5		1.56	1.95	0.25	117

Pos.	Qty.	Description	Package (to to scale)	A [m]	B [m]	C [m]	Weight [kg]
34	1+1	Electrics container, platforms 6+8		2.25	1.95	0.25	1.70
35	1	Catwalk extension, platform		2.18	1.26	0.3	107
36	1	Catwalk extension trailer 1		2.95	1.68	0.09	120
37	1	Catwalk extension trailer 2		2.18	1.26	0.09	111
38	0-2	Counterweight 1		7.95	0.34	3.0	8.500
39	3-4	Counterweights 2+3		7.95	0.30	3.0	14.300
40	2-4	Counterweights 4+5		7.95	0.30	3.0	14.300
41	1	Tie rod for counterweights		ca. 2.40	0.22	0.35	45
42	1	Jib section 1 with wheel base for counterweights		12.70	3.10	2.75	6,820
43	1	Jib section 2		12.60	2.85	2.75	6,100
44	0-3	Jib section 3		12.60	2.85	2.75	5,600
45	0-1	Jib section 4		6.20	2.85	2.75	3,300
46	0-1	Jib section 5 with jib head section		12.0	2.85	3.62	9,300
47	1+1	Platforms for jib section 5 (right+left)		2.40	0.88	1.80	190
48	0-1	Fly jib (optional)		5.80	1.40	1.10	850
49	0-1	Load hook 80t		1.15	0.54	2.15	2,600
50	0-1	Load hook 128t		1.15	0.80	2.65	5,310
51	18-60	Jib stay 440mm		0.65	0.025	0.20	14.70
52	12	Jib stay 2,700mm		2.90	0.025	0.20	53.20
53	0-28	Jib stay 5,709mm		5.96	0.025	0.20	104.1
54	6-66	Spacer for jib stays		0.092	0.03	0.12	1.7
55	1	Hoisting gear with platform (optional)		2.76	1.90	1.5	2,450
56	2	Stays for auxiliary hoist platform		2.34	0.11	0.16	25
57	4	150mm pin store for pin assembly		0.48	0.25	0.25	43.0
58	2	180mm pin store for pin assembly		0.45	0.30	0.03	41.5
59	1	Mounting bracket for pin store		0.30	0.10	0.30	24.0
60	4-6	Rope guide assemblies		1.5	0.30	0.4	36.1
61	1-X	Strain relief for electric cables with 25m rope		0.88	0.12	0.14	35

WILBERT Turmkrane GmbH

Lohrgraben 2
55444 Waldlaubersheim
Germany

Phone: +49 (0)6707 6668-0

Fax: +49 (0)6707 6668-1490

Web: www.wilbert.de

Email: info@wilbert.de

presented by: