



175 USt



217 ft



236 ft



302 ft

NEW

The jewel in your fleet

LTM 1150-5.4

Mobile crane
Grue mobile

LIEBHERR

Mobile and crawler cranes



Preliminary
Préliminaire

Technical data

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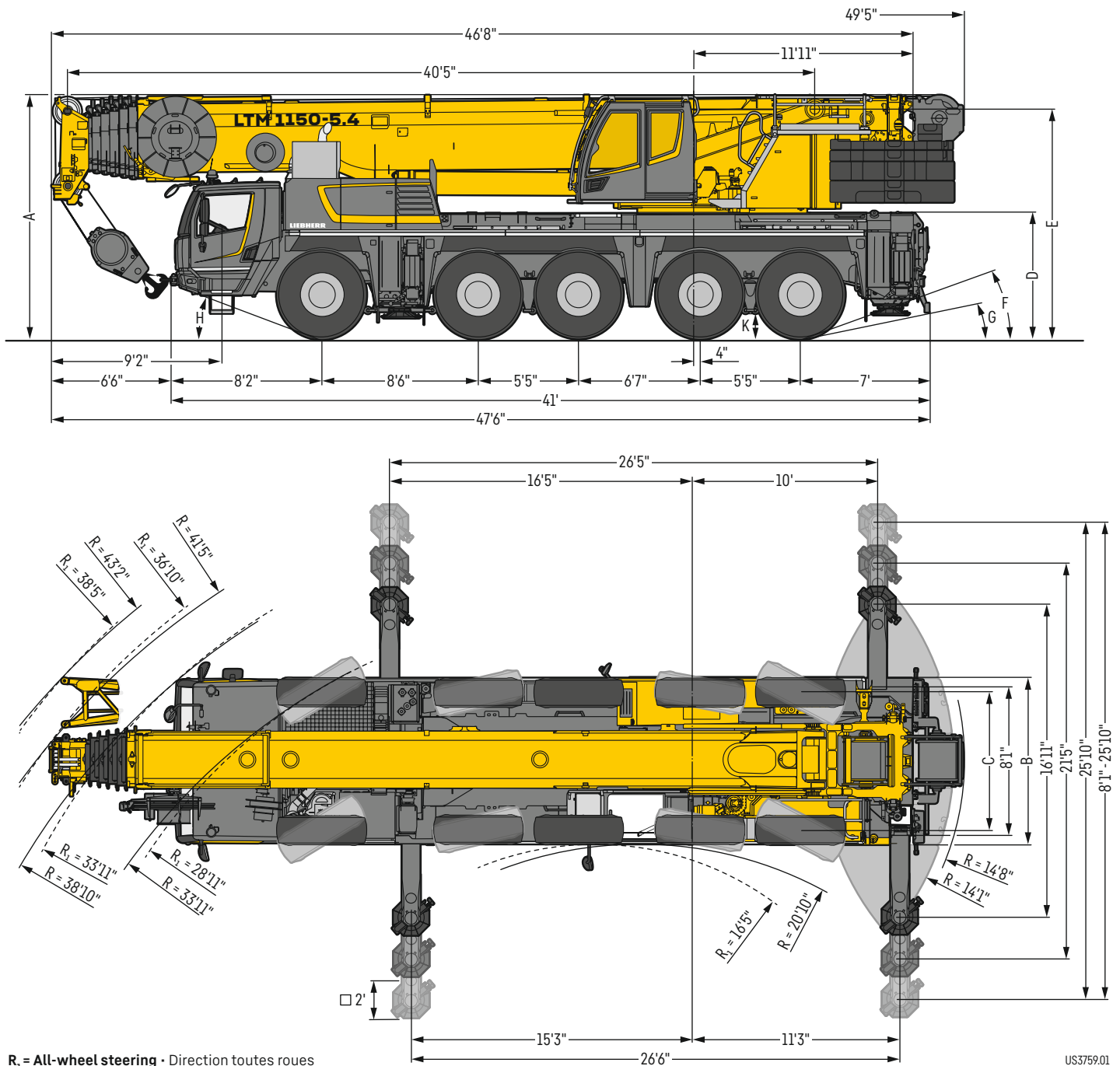
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Dimensions Encombrement



US3759.01

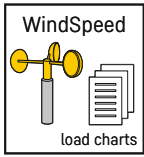
Dimensions · Encombrement

	A	A	B	C	D	E	F	G	H	K
		5" *								
445/95 R 25 (16.00 R 25)	13'1"	12'9"	9'	7'7"	6'9"	12'4"	20°	11°	20°	13"
525/80 R 25 (20.5 R 25)	13'1"	12'9"	9'4"	7'7"	6'9"	12'4"	20°	11°	20°	13"

* lowered · abaissé

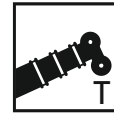
LTM 1150-5.4





Increased flexibility and safety by using lifting capacity tables with different maximum wind speeds.

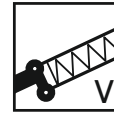
Une flexibilité et une sécurité accrues grâce aux tableaux de charge avec différentes vitesses de vent autorisées.



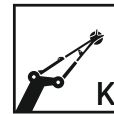
217 ft



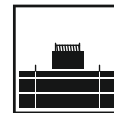
35 ft - 62 ft



23 ft



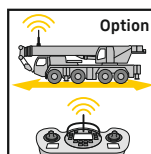
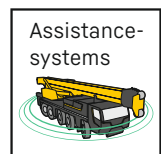
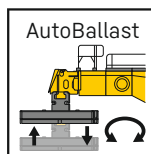
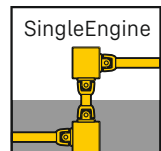
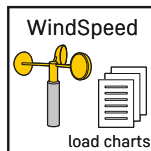
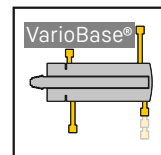
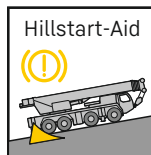
9 ft 6 in



99,200 lb



400 kW (544 h.p.)



New features

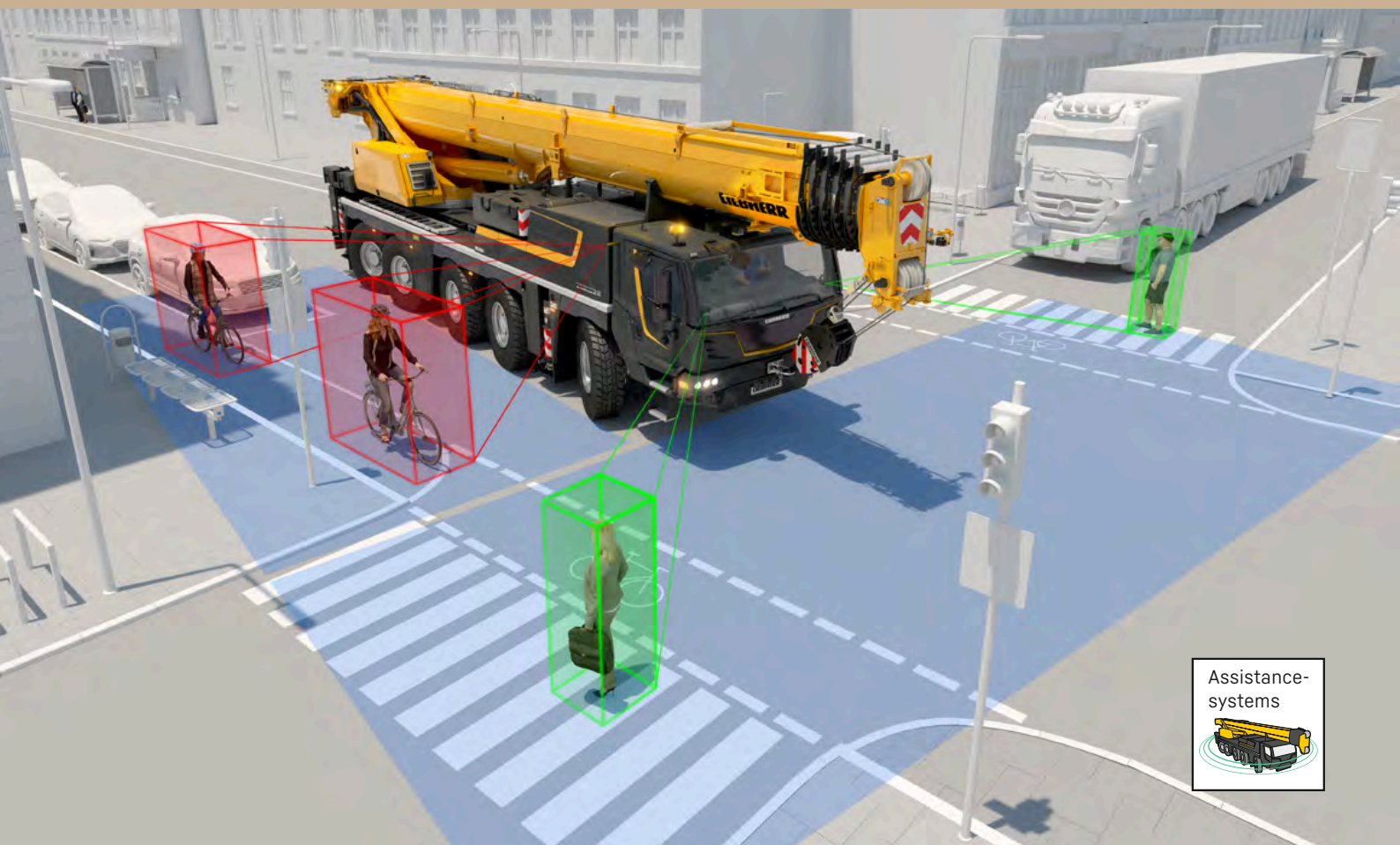
Nouveautés

Driver assistance systems for extra safety on the road

All new mobile crane models are equipped with driver assistance systems that support the crane driver with additional „eyes“. They scan the environment and warn the crane driver to prevent accidents.

Des systèmes d'assistance à la conduite pour une sécurité routière renforcée

Tous les nouveaux types de grues mobiles sont équipés de systèmes d'assistance à la conduite qui aident le grutier avec des « yeux » supplémentaires. Ils balayent l'environnement et avertissent le grutier afin d'éviter les accidents.



Blind Spot Information System

The Blind Spot Information System (BSIS) is also known as Blind Spot Assist or Turn Assist. The camera wing monitors the entire side area of the crane. A traffic light in the driver's cab emits a visual and acoustic warning signal in the event of danger. The crane operator can thus localise the hazardous situation immediately and assess it better. As an option, a monitor provides the driver with a better view and also visually displays the reason for the warning.

Assistant d'angle mort

Le « Blind Spot Information System » (BSIS) est également appelé assistant d'angle mort ou assistant virage. La « caméra-wing » surveille alors toute la zone latérale de la grue. Un feu de signalisation dans la cabine du grutier envoie un signal d'avertissement visuel et sonore en cas de danger. Ainsi, le grutier peut immédiatement localiser la situation dangereuse et mieux l'évaluer. En option, un moniteur offre une meilleure visibilité au conducteur et permet de transmettre visuellement l'origine de l'avertissement.

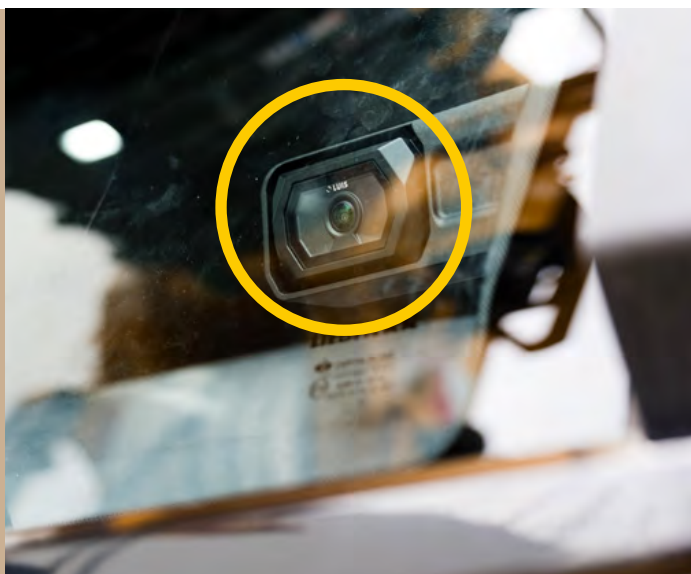


Moving Off Information System

If there is a person in front of the crane, the Moving Off Information System (MOIS) comes into play. Two digital cameras on the left and right of the front windshield scan the area and warn the crane driver both visually and acoustically.

Le système d'information d'approche

Si une personne se trouve devant la grue, le système d'information d'approche « Moving Off Information System » (MOIS) entre en jeu. Deux caméras numériques placées à gauche et à droite du pare-brise balayent la zone et avertissent également le conducteur par des signaux visuels et acoustiques.



Reversing Information System (REIS)





Système d'information sur la marche arrière (REIS)











Crane data

Dates de la grue

Hook block - Moufles à crochet




			
257,700 lb	7	14	2,750 lb
189,600 lb	5	10	2,100 / 1,650 lb
135,800 lb	3	7	1,550 / 1,100 lb
60,000 lb	1	3	1,000 lb
20,300 lb	-	1	770 lb

Crane carrier - Châssis porteur










					
445/95 R 25 (16.00 R 25)	0.3	53	56.5 %		12 / R2
525/80 R 25 (20.5 R 25)	0.3	53	56.5 %		4 / R2

Theoretical gradeability - Aptitude théorique en pente

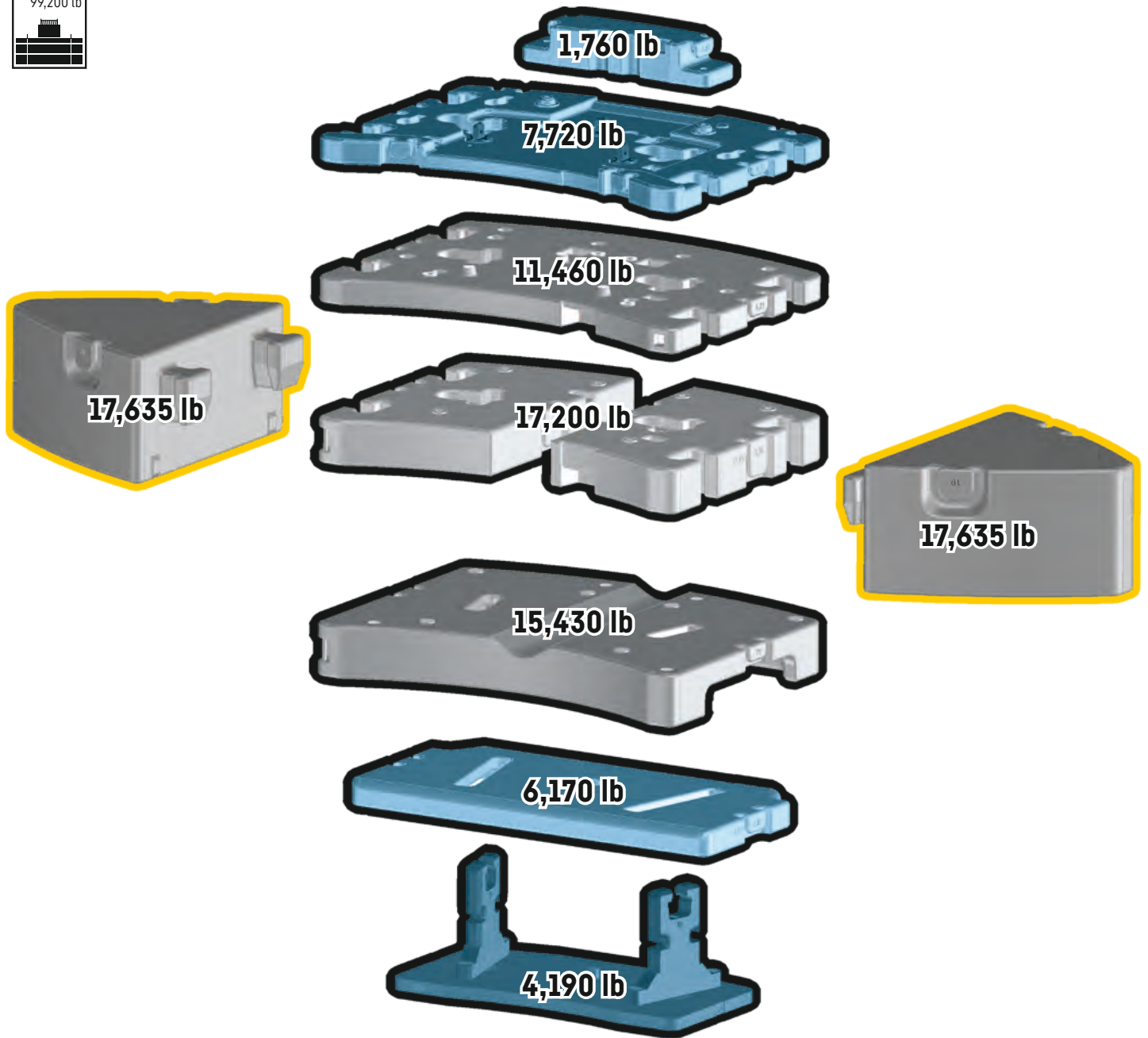
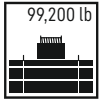
Max. supporting forces - Forces d'appui max.

		
F _{max}	166,000 lb	208,000 lb

Crane superstructure - Partie tournante

			
 1 0 - 367 ft/min single line - au brin simple	21 mm	820 ft	20,590 lb
 2 0 - 367 ft/min single line - au brin simple	21 mm	820 ft	20,590 lb
 360° 0 - 1.5 rpm			
 approx. 57 seconds to reach 83° boom angle env. 57 s jusqu'à 83°			
 approx. 460 seconds for boom extension from 40 ft - 217 ft env. 460 s pour passer de 40 ft - 217 ft			

Counterweight Contrepoids



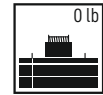
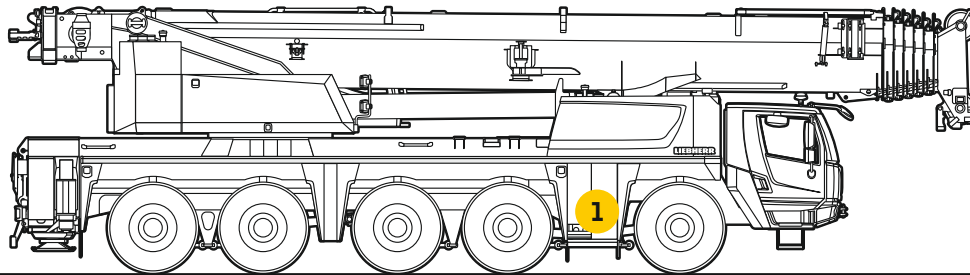
26,450 lb axle load
26,450 lb de charge
par essieu

Technically transportable
Transport techniquement simplifié

Additional counterweight
Contrepoids additionnel

On-road driving

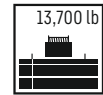
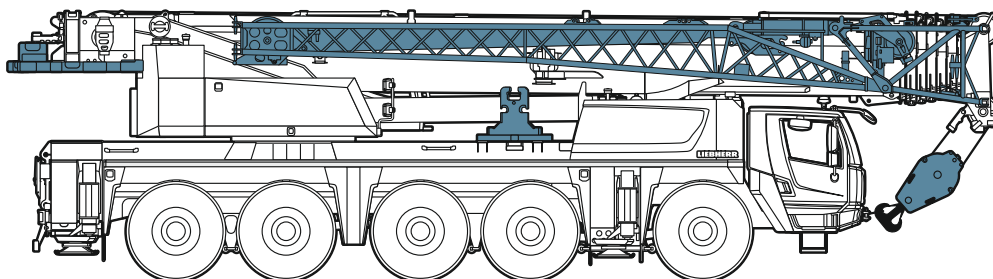
Déplacement sur route



≤ 105,800 lb

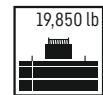
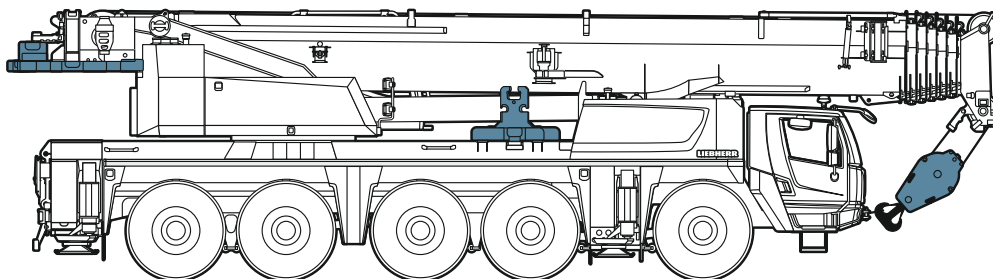
≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb

1 Note: without front outriggers · Remarque : sans longerons coulissants à l'avant



≤ 132,250 lb

≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb

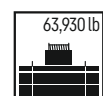
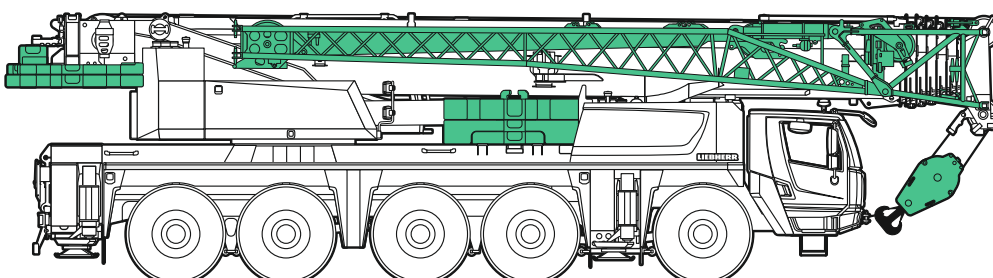


≤ 132,250 lb

≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb

Jobsite driving

Déplacement sur chantier



≤ 181,900 lb

≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb

US3760

Boom/jib combinations

Configurations de flèche

T Telescopic boom
Flèche télescopique

K/NZK Mechanically/hydraulically adjustable folding jib
Pointe pliante réglable mécaniquement/hydrauliquement

V Telescopic boom extension
Rallonge de flèche télescopique

K Assembly jib
Fléchette de montage



T

TK/TNZK

TVK/TVNZK

TK

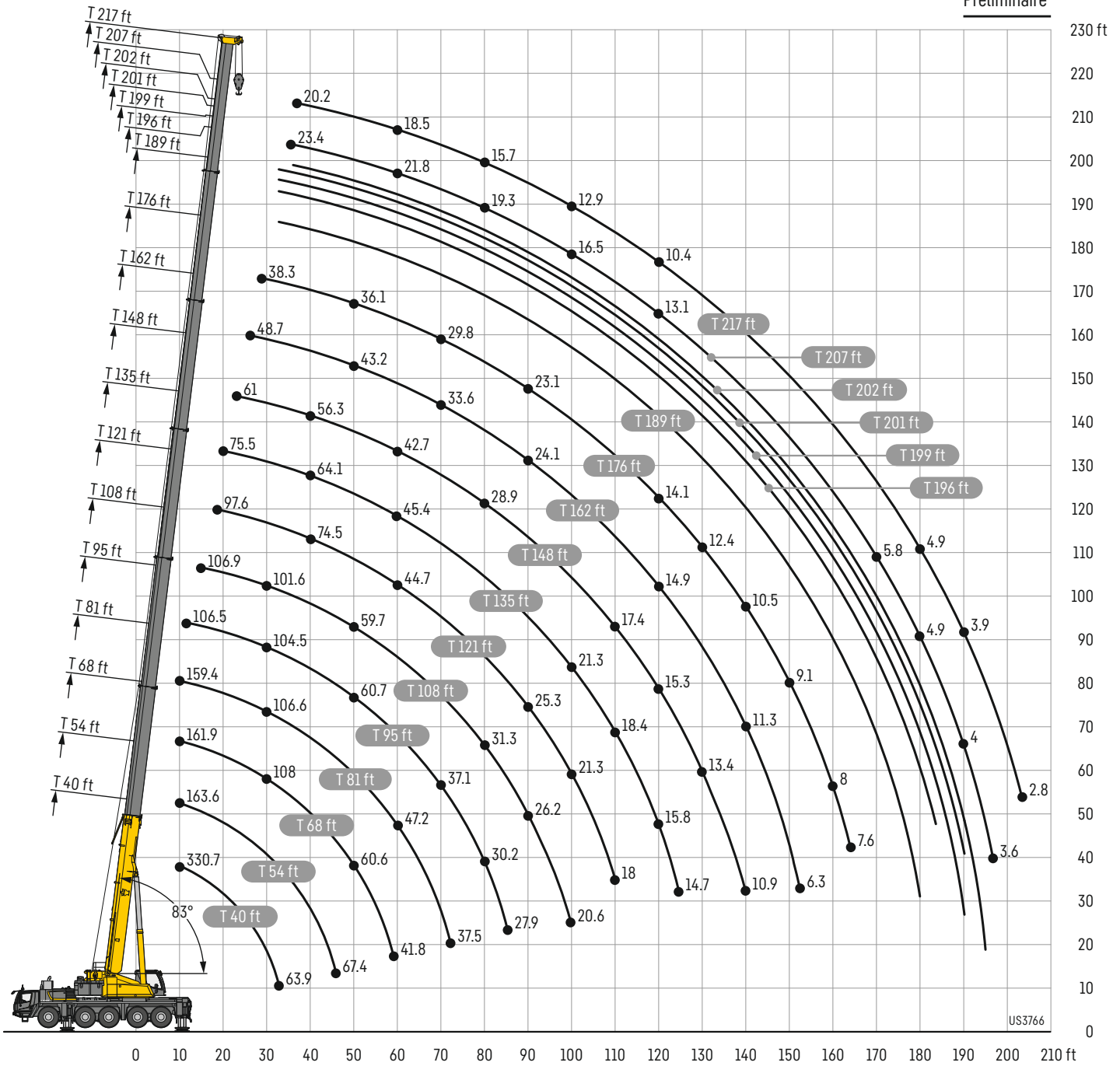
S3761

Lifting heights

Hauteurs de levage

T

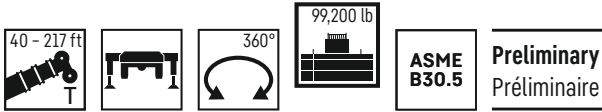
Preliminary
Préliminaire



Lifting capacities

Forces de levage

T



	40 ft		54 ft	68 ft	81 ft	95 ft	108 ft	121 ft	135 ft	148 ft	162 ft	176 ft	189 ft	196 ft	199 ft	201 ft	202 ft	207 ft	217 ft			
	*																					
10	330.7	189.6	163.6	161.9	159.4																10	
11	251.8	189.6	163.6	161.9	159.4	106.5															11	
12	238.7	189.6	163.6	161.9	159.4	144.7															12	
13	225.6	189.6	163.6	161.9	159.4	144.3															13	
14	213.3	189.6	163.6	161.9	159.4	144.3	106.9														14	
15	202.1	187.8	163.6	161.9	159.4	144.3	114.9														15	
16	192.1	182.6	163.6	161.9	159.4	144.3	114.9														16	
17	184.5	175.1	163.6	161.5	158	144.3	114.9	97.6													17	
18	177.7	168	162.9	159.5	154.5	144.3	114.9	97.6													18	
19	171.3	161.4	161.4	156.1	149.4	142.2	114.9	97.6													19	
20	165.4	155.3	155.4	150.7	144.4	138.6	114.8	97.6	75.5												20	
22	154.1	144	144.1	141.8	137.3	130.1	113.4	97.6	75.5												22	
24	140.3	134.1	134.9	134.1	128.9	122.6	110.1	97.6	75.5	61											24	
26	128	125.2	126.1	126.1	121.5	115.9	106.9	97.6	75.4	61	48.7										26	
28	117.2	115.7	116.8	117	114.3	110	105.7	97.6	74.7	61	48.7	38.3									28	
30	108.1	106.6	107.7	108	106.6	104.5	101.6	96.8	73.3	61	48.7	38.3									30	
32	97.2	97.5	100.6	101.2	100.6	98.6	96.4	92.8	71.6	60.5	48.7	38.3	31.2	27.7							32	
34	63.9	64.1	93.7	94.5	94.4	92.6	91.2	87.8	69.9	59.6	48.7	38.3	31.2	27.6	26.5	25.8	25.3	23.4			34	
36			87.5	88.4	89.3	86.8	86.1	83	68	58.7	48.6	38.3	31.2	27.4	26.4	25.7	25.3	23.4	20.2		36	
38			82.1	82.9	83.8	81.8	81.2	78.5	66	57.5	48.2	38.3	31.2	27.3	26.2	25.5	25.2	23.3	20.1		38	
40			77.3	78.1	78.9	77.9	76.8	74.5	64.1	56.3	47.7	38.2	31.2	27.1	26.1	25.3	25.1	23.2	20		40	
45			67.4	67.8	68.6	68.7	67.4	65.2	59.2	52.9	45.5	37.3	30.8	26.6	25.6	24.7	24.8	23	19.8		45	
50				60.6	60.4	60.7	59.7	57.1	54.1	49.5	43.2	36.1	30.1	26	25	23.9	24.4	22.7	19.4		50	
55				53.3	53.7	53.3	52.5	50.6	49	46.3	40.8	34.6	29.2	25.2	24.4	22.9	23.9	22.3	19		55	
60				41.8	47.2	46.8	45.9	44.7	45.4	42.7	38.4	33	28.2	24.3	23.6	22	23.3	21.8	18.5		60	
65					41.9	41.5	40.6	41.3	40.7	38.7	36	31.4	27.2	23.3	22.7	21	22.6	21.3	17.8		65	
70					37.5	37.1	36.6	37.4	36.3	35	33.6	29.8	26.1	22.3	21.7	20	21.9	20.6	17.1		70	
75						33.4	34.3	33.6	32.5	32.1	30.8	28.3	25	21.4	20.8	19	21.1	20	16.4		75	
80						30.2	31.3	30.4	29.3	28.9	27.8	27.1	23.9	20.5	19.8	18.1	20.3	19.3	15.7		80	
85						27.9	28.5	27.7	26.8	26.2	26.1	25.6	22.8	19.7	18.8	17.1	19.5	18.6	15		85	
90							26.2	25.3	24.4	24.6	24.1	23.1	21.8	18.9	17.9	16.2	18.8	17.9	14.3		90	
95							24.1	23.1	22.8	22.5	21.9	20.9	20.5	18.2	17.1	15.5	18.1	17.2	13.6		95	
100							20.6	21.3	21.3	20.8	20.2	19.8	18.8	17.4	16.3	14.8	17.4	16.5	12.9		100	
105								19.6	20	19	18.5	18.1	17.3	16.8	15.5	14	16.7	15.9	12.2		105	
110								18	18.4	17.4	16.9	16.8	16.1	15.6	14.8	13.3	15.6	15.3	11.6		110	
115									17	16.5	16	15.4	15.1	14.2	13.9	12.5	14.2	14.4	11		115	
120									15.8	15.3	14.9	14.1	13.9	13.7	12.9	11.9	12.9	13.1	10.4		120	
125									14.7	14.2	13.7	13.2	12.7	12.9	11.9	11.2	11.8	11.9	9.8		125	
130										13.4	12.6	12.4	11.6	11.8	11.3	10.6	10.7	10.8	9.4		130	
135										12.5	12.1	11.4	10.7	10.8	10.3	10.1	9.8	9.9	8.9		135	
140										10.9	11.3	10.5	9.8	9.9	9.5	9.6	9.1	9.2	8.5		140	
145											10.5	9.7	9.1	9.2	8.8	9.1	8.4	8.5	8.1		145	
150											9.8	9.1	8.5	8.6	8.2	8.5	7.8	7.9	7.8		150	
155											6.3	8.5	7.9	8	7.6	8	7.2	7.3	7.3		155	
160												8	7.4	7.5	7.1	7.4	6.6	6.8	6.7		160	
165												7.6	6.9	7	6.6	6.9	6.2	6.3	6.2		165	
170													6.5	6.6	6.1	6.5	5.7	5.8	5.8		170	
175													6.1	6.1	5.7	6	5.2	5.4	5.3		175	
180														5.3	5.7	5.3	5.6	4.7	4.9		180	
185															5.3	4.8	4.3	4.5	4.4		185	
190																3.7	4.8	3.9	4	3.9		190
195																	2	3.6	3.5		195	
200																			3.1			200
205																			2.8			205

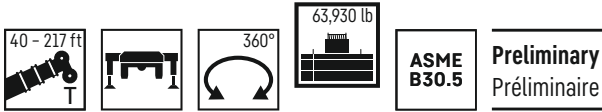
* ± 0° over rear · en arrière

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Lifting capacities

Forces de levage

T



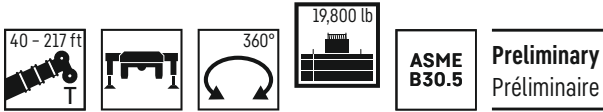
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11	189.6	163.6	161.9	159.4	106.5															11
12	189.6	163.6	161.9	159.4	144.7															12
13	189.6	163.6	161.9	159.4	144.3															13
14	189.6	163.6	161.9	159.4	144.3	106.9														14
15	187.1	163.6	161.9	159.4	144.3	114.9														15
16	180.6	163.6	161.9	159.4	144.3	114.9														16
17	172.9	163.6	161.5	158	144.3	114.9	97.6													17
18	165.9	161.9	159.5	154.5	144.3	114.9	97.6													18
19	159.3	159.4	156.1	149.4	142.2	114.9	97.6													19
20	153.1	153.3	150.7	144.4	138.6	114.8	97.6	75.5												20
22	138.2	138.8	137.2	135.5	128	113.4	97.6	75.5												22
24	124.6	125.8	125.5	122.6	114.1	108.3	97.6	75.5	61											24
26	113.3	114.5	114.7	110.4	105.4	101.2	95.3	75.4	61	48.7										26
28	103.7	105	105.2	102.6	99.6	94.4	88.6	74.7	61	48.7	38.3									28
30	95.4	97.3	98.2	95.4	91.8	86.6	81.5	73.2	61	48.7	38.3									30
32	88.1	90.1	90.4	87.8	84.5	79.9	75.2	71	60.5	48.7	38.3	31.2	27.7							32
34	64.1	83.2	83.5	81.4	78.4	74.1	69.7	66	59.6	48.7	38.3	31.2	27.6	26.5	25.8	25.3	23.4			34
36		76.5	78.3	76.2	72.8	69.1	64.9	62.4	58.5	48.6	38.3	31.2	27.4	26.4	25.7	25.3	23.4	20.2		36
38		70	71.9	71	67.9	64.5	60.6	59.8	56.7	48.2	38.3	31.2	27.3	26.2	25.5	25.2	23.3	20.1		38
40		64.4	66.3	66.3	63.7	60.4	57.9	56.6	53.3	47.7	38.2	31.2	27.1	26.1	25.3	25.1	23.2	20		40
45		53.2	55	55.5	54.6	51.8	51.7	48.9	46.9	44.3	37.3	30.8	26.6	25.6	24.7	24.8	23	19.8		45
50			46.6	47	46.7	47.3	45.1	43	41.1	39.3	36.1	30.1	26	25	23.9	24.4	22.7	19.4		50
55			40.1	40.5	40.2	41.5	39.9	38.1	36.7	35.2	33.4	29.2	25.2	24.4	22.9	23.9	22.3	19		55
60			35	35.3	36.7	36.2	35.3	34.4	33.4	32	30.3	28.2	24.3	23.6	22	23.3	21.8	18.5		60
65				31.1	32.4	31.9	31	31.2	30.2	29	27.8	26.1	23.3	22.7	21	22.6	21.3	17.8		65
70				28.7	28.9	28.4	27.9	28.2	27.3	26.4	25.2	23.6	22.3	21.7	20	21.9	20.6	17.1		70
75					25.9	25.4	25.5	25.1	24.6	23.7	23	21.8	20.7	20.4	19	20.6	19.9	16.4		75
80					23.4	22.8	23.2	22.6	22	21.6	21	20.1	18.9	18.7	18	18.6	18.5	15.7		80
85					21.2	20.5	20.9	20.3	20.1	19.7	19	18.1	17.5	17	16.9	16.8	16.8	15		85
90						19.3	18.9	18.3	18.1	17.9	17	16.2	16.3	15.8	15.9	15.1	15.2	14.3		90
95						17.8	17.2	17.1	16.5	16.1	15.2	14.5	14.6	14.1	14.5	13.5	13.6	13.2		95
100						16.3	15.6	15.6	14.9	14.5	13.7	12.9	13	12.5	12.9	11.9	12.1	12.1		100
105							14.2	14.2	13.5	13.1	12.3	11.5	11.7	11.2	11.6	10.6	10.7	10.7		105
110							13.1	12.9	12.3	11.9	11	10.3	10.5	10	10.3	9.5	9.6	9.6		110
115								11.8	11.1	10.7	10	9.4	9.5	9.1	9.4	8.6	8.7	8.7		115
120									10.8	10.1	9.8	9.1	8.5	8.7	8.2	8.5	7.8	7.9		120
125									10	9.4	9	8.4	7.8	7.9	7.5	7.8	7	7.1		125
130										8.7	8.3	7.7	7.1	7.2	6.8	7.1	6.4	6.5		130
135										8.1	7.7	7.1	6.5	6.6	6.2	6.5	5.7	5.8		135
140										7.6	7.2	6.5	5.9	6	5.6	5.9	5.2	5.3		140
145											6.6	6	5.4	5.5	5.1	5.4	4.6	4.7		145
150											6.2	5.5	4.9	5	4.6	4.9	4.1	4.2		150
155											5.8	5	4.4	4.5	4.1	4.4	3.5	3.7		155
160												4.6	3.9	4.1	3.5	4	3	3.2		160
165												4.1	3.4	3.6	3.1	3.5	2.5	2.7		165
170													3	3.1	2.6	3	2.1	2.3		170
175													2.6	2.7	2.2	2.6		1.8		175
180													2.2	2.3	1.8	2.2				180
185														2	1.9					185

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Lifting capacities

Forces de levage

T



	40 ft	54 ft	68 ft	81 ft	95 ft	108 ft	121 ft	135 ft	148 ft	162 ft	176 ft	189 ft	196 ft	199 ft	201 ft	202 ft	207 ft	217 ft		
10	189.6	163.6	161.9	159.4																10
11	189.6	163.6	161.9	159.4	106.5															11
12	189.6	163.6	161.9	159.4	144.7															12
13	189.6	163.6	161.9	159.4	144.3															13
14	189.2	163.6	161.9	159.3	141.8	106.9														14
15	184.5	163.6	160	147.4	137.4	114.9														15
16	173.3	159.3	152.4	137	128.6	114.4														16
17	161	151.2	140.7	128.2	118.6	107.3	97.6													17
18	150.4	139.2	128.5	119.5	109.7	102.2	95.2													18
19	139.4	128.6	118.8	110.8	102.5	97.2	90.2													19
20	128.1	118.6	109.9	102.9	99.3	92	84.5	75.3												20
22	109	103.2	98.4	93.7	87.6	81.3	77.3	71												22
24	94.4	91.5	87.9	83.1	78	74.4	70.6	66.1	59.1											24
26	81.8	81.1	78.3	74.7	70.1	68.4	63.9	59.9	56.2	48.4										26
28	70.6	72.4	70.4	67.3	65.7	62.2	58.6	55.5	52.2	47.6	38.3									28
30	61.7	65.3	63.8	61.1	60.2	56.8	53.8	50.9	48	44.6	38.3									30
32	54.5	58.6	58.2	56.7	55.2	52.2	49.6	48.1	45.1	42.3	37.6	31.2	27.7							32
34	48.5	52.5	53.4	52.8	51	48.2	46.7	44.7	42.7	40.1	36.8	31.2	27.6	26.5	25.8	25.3	23.4			34
36		47.3	49.2	48.9	47.2	44.9	43.9	41.8	39.7	37.3	34.8	31.2	27.4	26.4	25.7	25.3	23.4	20.2		36
38		42.9	45	45.4	43.8	42.2	40.9	39	37.4	34.7	32.8	30	27.3	26.2	25.5	25.2	23.3	20.1		38
40		39.2	41.2	42.3	40.9	40	38.3	36.4	35	33	30.9	28.6	26.9	26.1	25.3	25.1	23.2	20		40
45		31.6	33.6	35.2	34.9	34.2	32.5	31.7	29.9	28.6	26.8	25.1	24.7	23.5	23.1	23.2	22.5	19.8		45
50			27.9	29.4	29.9	29.4	28.2	27.3	25.8	24.6	23	21.4	21.3	20.6	21	19.7	19.6	18.6		50
55			23.3	24.8	25.1	25.3	24.5	23.6	22.3	21.3	19.8	18.3	18.3	17.6	18	16.7	16.7	16.2		55
60			19.7	20.9	21.2	21.4	21.1	20.6	19.4	18.6	17.2	15.8	15.8	15.1	15.5	14.3	14.3	13.9		60
65				17.8	18.1	18.3	18	17.7	16.9	16.2	14.9	13.7	13.7	13	13.4	12.2	12.3	11.9		65
70				15.4	15.5	15.8	15.5	15.2	14.5	14	12.9	11.8	11.8	11.2	11.6	10.4	10.5	10.2		70
75					13.4	13.6	13.3	13.1	12.3	11.9	11	10.2	10.3	9.6	10.1	8.9	8.9	8.8		75
80					11.6	11.8	11.5	11.2	10.6	10.2	9.4	8.7	8.9	8.2	8.7	7.5	7.6	7.5		80
85					10.1	10.2	10	9.8	9.2	8.9	8.2	7.5	7.6	7	7.4	6.3	6.4	6.3		85
90						9.1	8.9	8.7	8.1	7.8	7.1	6.4	6.5	5.9	6.3	5.2	5.3	5.3		90
95						8.2	7.9	7.7	7.2	6.9	6.2	5.4	5.5	4.9	5.4	4.2	4.3	4.3		95
100						7.4	7.1	6.9	6.3	6	5.3	4.5	4.7	4.1	4.5	3.2	3.5	3.4		100
105							6.4	6.1	5.6	5.3	4.6	3.7	3.9	3.1	3.7	2.2	2.4	2.3		105
110							5.7	5.5	4.9	4.6	3.9	2.9	3	2.2	2.9					110
115								4.9	4.3	4	3.3	2	2.2		1.9					115
120								4.4	3.8	3.4	2.5									120
125								3.8	3.2	2.8										125
130									2.7	2.2										130
135									2.2											135
140									1.8											140

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Lifting capacities

Forces de levage

T

40 - 217 ft

360°

13,700 lb

ASME B30.5

Preliminary
Préliminaire

	40 ft	54 ft	68 ft	81 ft	95 ft	108 ft	121 ft	135 ft	148 ft	162 ft	176 ft	189 ft	196 ft	199 ft	201 ft	202 ft	207 ft	217 ft		
10	189.6	163.6	161.9	159.4																10
11	189.6	163.6	161.9	159.4	106.5															11
12	189.6	163.6	161.9	159.4	144.7															12
13	189.6	163.6	161.9	157.2	144.3															13
14	189	163.6	161.9	152.9	138.3	114.9														14
15	182.6	163.6	155.1	138.8	129.4	114.9														15
16	169.1	156	140.5	130	119.6	108.4														16
17	156.9	140.9	130.5	120.5	109.9	100.6	94.4													17
18	142.4	130.2	119.3	111.2	102.9	97.6	88.3													18
19	129.3	118.5	109.7	102.2	98.5	90.5	83.7													19
20	118.4	109.3	103.3	98.8	92	85.1	80.2	73.5												20
22	100.3	96.3	91.7	87	80.8	77.2	72.6	67.2												22
24	86.7	84.2	81	76.6	72.9	70	64.9	60.8	56.7											24
26	75.1	74.6	72.2	68.9	67.2	63.2	59.7	56.2	52.5	47.6										26
28	64.7	66.6	65	62.1	60.8	57.5	54.2	51.3	48.7	44.7	38.2									28
30	56.4	60	58.8	57.8	55.6	52.2	50.2	47.9	45	41.8	37.9									30
32	49.7	53.9	53.4	52.9	50.7	48	46.9	44.4	42	39.5	35.6	31.2	27.7							32
34	44.1	48.2	49	48.8	46.9	45.6	43.4	41	38.8	36.1	34.2	30.7	27.6	26.5	25.8	25.3				34
36		43.2	45.2	44.9	43.2	42.3	40.2	38.3	36.3	34.4	31.7	29	27.1	26.3	25.6	25.3	23.4	20.2		36
38		39.2	41.3	41.5	40.2	39.4	37.2	35.9	34	32.5	30.1	27.7	26.7	26	25.3	25.1	23.3	20.1		38
40		35.6	37.8	38.5	37.6	36.6	34.8	33.5	31.7	30.1	28.4	26.4	25.1	24.4	24.2	24.4	23.3	20		40
45		28.3	30.5	32.1	31.6	30.8	29.6	28.5	26.8	25.5	23.9	22.1	22.1	21.1	21.4	20.2	20.2	18.9		45
50			24.8	26.3	26.7	26.2	25.3	24.2	22.9	21.7	20.1	18.6	18.6	17.8	18.3	17.1	17	16.5		50
55			20.6	21.9	22.2	22.4	21.8	21	19.7	18.7	17.2	15.8	15.8	15.1	15.5	14.3	14.4	13.9		55
60			17.1	18.4	18.6	18.9	18.6	18.2	17	16.2	14.9	13.5	13.6	12.9	13.3	12	12.1	11.8		60
65			15.5	15.8	16	15.7	15.4	14.7	14	12.8	11.6	11.6	11	11.3	10.1	10.1	10			65
70			13.2	13.4	13.7	13.3	13.1	12.3	11.9	11	9.9	9.9	9.3	9.7	8.5	8.6	8.4			70
75			11.5	11.7	11.4	11.1	10.4	10.1	9.2	8.4	8.4	7.8	8.2	7	7.1	7				75
80			9.9	10	9.8	9.6	9	8.7	8	7	7.1	6.4	6.9	5.7	5.9	5.7				80
85			8.7	8.9	8.6	8.4	7.9	7.5	6.8	5.8	6	5.3	5.7	4.5	4.7	4.6				85
90				7.9	7.6	7.4	6.9	6.6	5.8	4.7	4.9	4.2	4.7	3.3	3.5	3.4				90
95				7	6.7	6.5	6	5.7	4.8	3.8	3.9	3.1	3.7	2.2	2.3	2.3				95
100					6.3	6	5.7	5.2	4.8	4	2.7	2.9	2.1	2.7						100
105						5.3	5	4.5	4.1	3.1	1.8	1.9								105
110							4.7	4.4	3.9	3.5	2.1									110
115								3.8	3.2	2.8										115
120								3.2	2.5	2										120
125								2.7	1.8											125

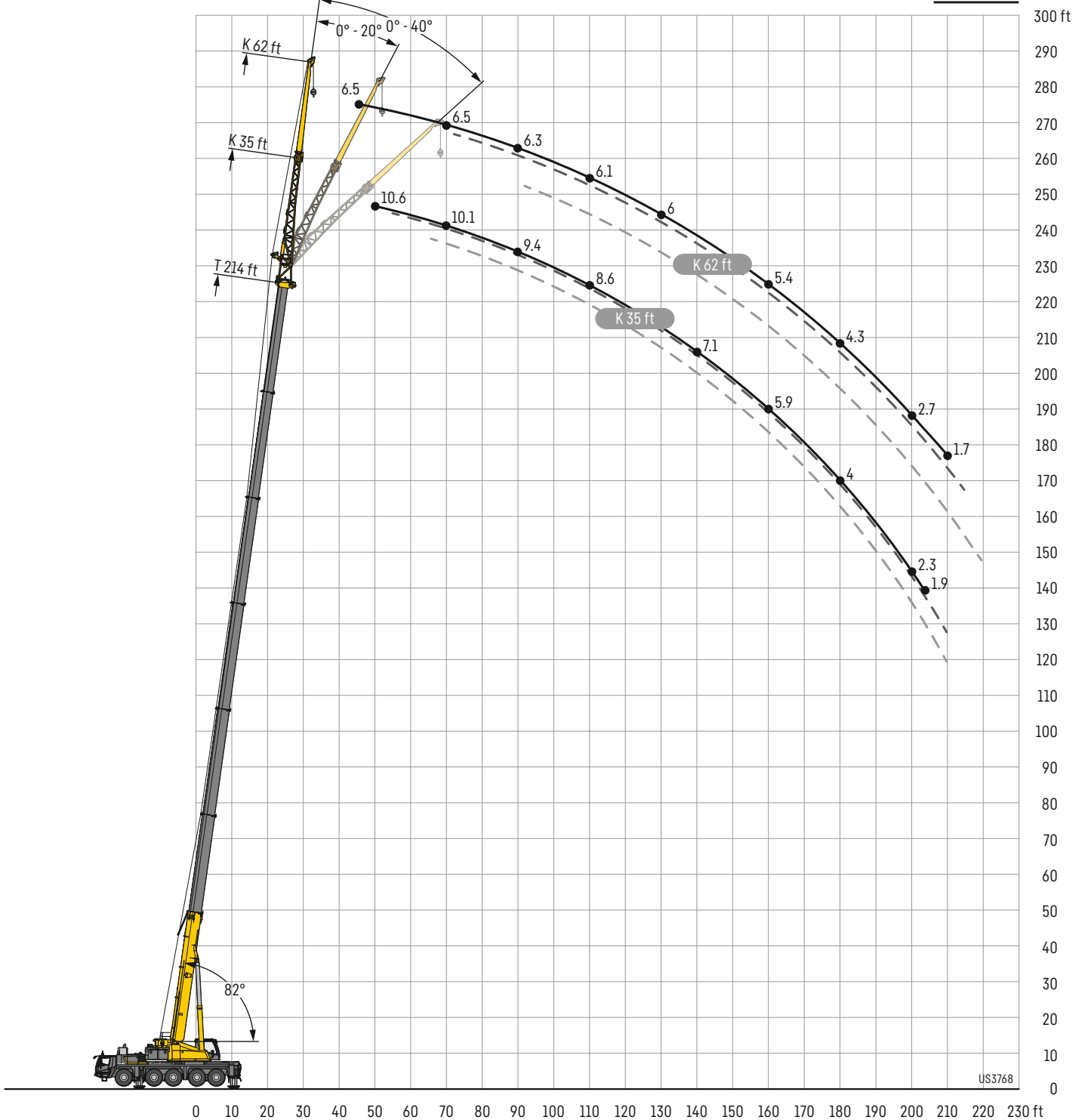
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Lifting heights

Hauteurs de levage

TK/TNZK

Preliminary
Préliminaire

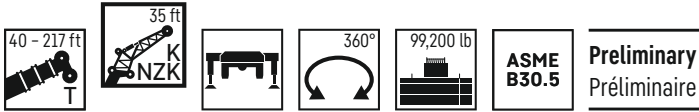


US3768

Lifting capacities

Forces de levage

TK/TNZK



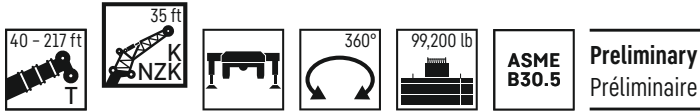
	40 ft			121 ft			135 ft			148 ft			162 ft			176 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
10	40.3																		10
11	40.3																		11
12	40.3																		12
13	40.3																		13
14	40.3																		14
15	40.3																		15
16	40.3	35.9																	16
17	40.3	35.3																	17
18	40	34.7																	18
19	39.6	34.1																	19
20	38.9	33.4																	20
22	37.4	31.5																	22
24	35.3	29.9	22.4																24
26	33.1	28.4	21.6	40.3															26
28	30.9	27	20.9	40.3															28
30	28.9	25.8	20.2	40.3	35.4														30
32	27	24.7	19.6	40.3	34.8		38.9												32
34	25.4	23.6	19.1	40.3	34.2		38.6	32.2	24.6										34
36	23.9	22.7	18.6	40.3	33.6		38.3	31.8	24.4			19							36
38	22.5	21.9	18.1	40.3	32.8	21.9	37.9	31.4	32.4	28.5		27.7				18.5			38
40	21.3	21.1	17.7	40.3	32	21.5	37.5	30.9	32.2	28.2		27.5			18.4				40
45	18.7	19.4	16.8	39.8	30	20.7	36.3	29.7	20.7	31.5	27.3	20.2	27.2	24.8		22.3	20.7		45
50	16.6	18	16.1	38.1	28.2	20	35.1	28.2	20	30.8	26.5	19.6	26.8	24.3	19.4	21.9	20.5		50
55	14.9	16.9	15.7	35.9	26.6	19.4	33.9	26.7	19.4	30.1	25.7	19.1	26.4	23.7	18.9	21.5	20.4	18.4	55
60	13.5	16	15.6	33.2	25.2	18.7	32.6	25.4	18.8	29.3	24.7	18.6	25.8	23.2	18.4	21	20.2	18	60
65	12.3	15.5	11.4	30.5	24	18.2	30.8	24.2	18.3	28.6	23.6	18.1	25.2	22.7	17.9	20.6	20	17.6	65
70				28.1	22.9	17.7	28.7	23.2	17.9	27.6	22.7	17.7	24.4	22.1	17.6	20.1	19.7	17.2	70
75				26	21.9	17.3	26.8	22.2	17.4	26	21.9	17.3	23.3	21.5	17.2	19.6	19.2	16.9	75
80				24.1	21	16.9	25	21.4	17.1	24.5	21.1	17	22.3	20.8	16.9	18.9	18.5	16.7	80
85				22.4	20.2	16.6	23.3	20.6	16.7	23.2	20.4	16.7	21.2	20.2	16.6	18.2	17.8	16.4	85
90				21	19.4	16.3	21.1	19.9	16.4	21.5	19.7	16.4	20.3	19.6	16.3	17.4	17.1	16.2	90
95				19.6	18.7	16	18.9	19.2	16.2	19.5	19.1	16.2	19	19	16.1	16.7	16.4	16	95
100				17.6	18.1	15.8	17	18	16	17.5	18.5	15.9	17.3	18.2	15.9	15.9	15.7	15.6	100
105				15.9	16.8	15.6	15.3	16.3	15.8	15.8	16.8	15.8	15.5	16.6	15.8	15.2	15.1	15.1	105
110				14.9	15.1	15.5	13.7	14.6	15.1	14.2	15.2	15.6	14	15	15.3	13.9	14.4	14.6	110
115				14.3	13.7	14.1	12.3	13.1	13.7	12.8	13.7	14.3	12.6	13.5	14.2	12.6	13.5	13.9	115
120				13.7	13.1	13	11.1	11.8	12.3	11.6	12.3	12.9	11.6	12.2	12.8	11.5	12.2	12.8	120
125				13.2	12.7	12.7	10.7	10.6	11	10.9	11.1	11.6	11.1	10.9	11.5	11.1	10.9	11.5	125
130				12.7	12.3	12.5	10.3	10	10	10.4	10.2	10.4	10.5	10.4	10.3	10.7	10.3	10.4	130
135				12	12	11.3	9.9	9.7	9.8	9.9	9.9	9.9	10	10.1	10	9.9	10	10	135
140				11.1	11.3		9.6	9.5	9.6	9.5	9.6	9.7	9.6	9.7	9.8	9.2	9.6	9.8	140
145				10.3	10.4		9.4	9.3	9.4	9.2	9.2	9.4	9	9.3	9.5	8.5	8.9	9.2	145
150				4.6			9.1	9.1	8.8	8.8	8.9	9	8.4	8.7	8.9	8	8.3	8.5	150
155							8.9	8.9		8.5	8.6	8.7	7.8	8.1	8.3	7.7	7.8	7.9	155
160							8.5	8.6		8	8.2	8.3	7.3	7.6	7.7	7.3	7.5	7.6	160
165										7.6	7.7		6.9	7	7.1	6.8	7.1	7.2	165
170										7.1	7.2		6.7	6.8	6.9	6.3	6.6	6.7	170
175										5.5			6.5	6.5	6.6	5.9	6.1	6.2	175
180													6.2	6.3		5.5	5.7	5.7	180
185													5.8	5.9		5.1	5.3	5.3	185
190													2.6			4.6	4.8		190
195																4.2	4.3		195
200																3.8	3.9		200

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Lifting capacities

Forces de levage

TK/TNZK



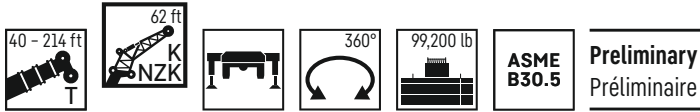
	189 ft			201 ft			202 ft			214 ft			217 ft			
	35 ft															
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
45	16.6			12.1												45
50	16.5	16.6		12	12.1		13.1	13.2		10.6			10.3			50
55	16.4	16.3		11.9	11.9		13.1	13		10.5	10.6		10.2	10.3		55
60	16.2	16	15.8	11.7	11.7	11.7	12.9	12.7	12.6	10.4	10.5		10.1	10.2		60
65	16	15.8	15.6	11.4	11.4	11.5	12.8	12.5	12.5	10.2	10.3	10.3	10	10	10.1	65
70	15.7	15.4	15.3	11.1	11.1	11.2	12.6	12.4	12.4	10.1	10.1	10.2	9.9	9.9	10	70
75	15.3	15	14.8	10.8	10.7	10.9	12.3	12.1	12.2	9.9	9.9	10.1	9.7	9.8	9.9	75
80	15	14.6	14.4	10.5	10.4	10.5	12.1	11.9	11.9	9.7	9.7	9.9	9.6	9.6	9.7	80
85	14.5	14.2	13.9	10.2	10.1	10.2	11.8	11.6	11.5	9.6	9.5	9.7	9.4	9.4	9.5	85
90	14.1	13.7	13.5	9.9	9.8	9.9	11.5	11.2	11.2	9.4	9.3	9.4	9.2	9.2	9.3	90
95	13.6	13.3	13.1	9.7	9.6	9.6	11.2	10.9	10.8	9.2	9.1	9.2	9	9	9.1	95
100	13.1	12.8	12.7	9.4	9.3	9.4	10.8	10.5	10.5	9	8.9	9	8.8	8.8	8.9	100
105	12.6	12.4	12.4	9.1	9.1	9.1	10.5	10.2	10.2	8.8	8.7	8.8	8.6	8.6	8.7	105
110	12.1	12	12	8.9	8.8	8.9	10.2	9.9	9.9	8.6	8.5	8.6	8.3	8.4	8.5	110
115	11.7	11.5	11.6	8.6	8.6	8.6	9.9	9.7	9.7	8.3	8.3	8.4	8	8.2	8.3	115
120	11.2	11.1	11.2	8.3	8.3	8.4	9.6	9.4	9.5	8.1	8.1	8.2	7.6	7.9	8.1	120
125	10.5	10.7	10.8	8.1	8.1	8.2	9.4	9.2	9.2	7.9	7.9	8	7.4	7.6	7.8	125
130	9.6	10.2	10.4	7.8	7.8	7.9	9.1	9	9	7.6	7.7	7.8	7.1	7.3	7.5	130
135	8.9	9.4	9.8	7.5	7.6	7.7	8.8	8.8	8.8	7.4	7.4	7.6	6.8	7	7.2	135
140	8.7	8.6	9	7.2	7.3	7.5	8.3	8.6	8.6	7.1	7.2	7.3	6.5	6.7	6.9	140
145	8.4	8.4	8.5	7	7.1	7.2	7.7	8.1	8.4	6.9	7	7.1	6.2	6.4	6.6	145
150	7.8	8.2	8.3	6.7	6.8	7	7.1	7.6	7.9	6.7	6.8	6.9	5.9	6.1	6.3	150
155	7.2	7.6	7.9	6.4	6.5	6.7	6.5	7	7.3	6.4	6.5	6.7	5.6	5.8	6	155
160	6.7	7.1	7.3	6.1	6.3	6.4	6	6.4	6.7	5.9	6.3	6.4	5.4	5.6	5.7	160
165	6.2	6.5	6.7	5.9	6	6.1	5.5	5.9	6.1	5.4	5.8	6.1	5.1	5.3	5.4	165
170	5.7	6.1	6.2	5.6	5.8	5.9	5	5.4	5.6	4.9	5.3	5.6	4.8	5	5.2	170
175	5.3	5.6	5.7	5.2	5.5	5.6	4.5	4.9	5.1	4.5	4.9	5.1	4.4	4.7	4.9	175
180	4.9	5.1	5.3	4.8	5.1	5.2	4	4.4	4.6	4	4.4	4.6	3.9	4.3	4.5	180
185	4.4	4.7	4.8	4.3	4.7	4.8	3.5	3.9	4.1	3.5	3.9	4.2	3.4	3.8	4.1	185
190	3.9	4.2	4.3	3.9	4.2	4.4	3.1	3.4	3.6	3.1	3.5	3.7	3	3.4	3.6	190
195	3.5	3.8	3.8	3.5	3.8	3.9	2.7	3	3.1	2.7	3	3.2	2.5	2.9	3.1	195
200	3.1	3.3	3.3	3.1	3.3	3.4	2.3	2.6	2.6	2.3	2.6	2.7	2.1	2.5	2.6	200
205	2.8	2.9		2.7	2.9	3	1.9	2.1	2.2	1.9	2.2	2.3	1.6	2.1	2.2	205
210	2.4	2.5		2.4	2.6	2.6	1.6	1.8	1.8		1.8	1.9			1.7	210
215	1.7			2	2.2		1.1	1.4								215
220				1.7	1.8											220

maxt_286_003_00001_00_000

Lifting capacities

Forces de levage

TK/TNZK



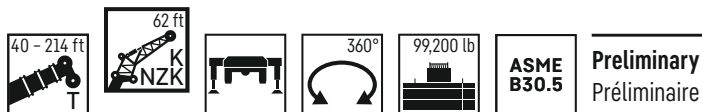
	40 ft			121 ft			135 ft			148 ft			162 ft			176 ft			
	62 ft																		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16	15.7																		16
17	15.6																		17
18	15.4																		18
19	15.2																		19
20	15																		20
22	14.6																		22
24	14.1																		24
26	13.7			16.3															26
28	13.2			16.2															28
30	12.8	10.6		16.1			15.3												30
32	12.4	10.3		15.9			15.2												32
34	12	10		15.7			15			13.8									34
36	11.6	9.7		15.5			14.9			13.7									36
38	11.2	9.4		15.2			14.7			13.6			12.5						38
40	10.9	9.2		15			14.5			13.4			12.4			11.1			40
45	10.1	8.8	7.8	14.4	10.3		14	10.3		13.1			12.2			10.9			45
50	9.4	8.4	7.5	13.7	10		13.5	9.9		12.8	9.7		12			10.8			50
55	8.9	8	7.3	13.1	9.6		13	9.6		12.4	9.5		11.7	9.3		10.7			55
60	8.4	7.7	7.1	12.5	9.4	7.7	12.4	9.3		12	9.2		11.4	9.1		10.5	8.8		60
65	7.8	7.5	6.9	12	9.1	7.6	11.9	9.1	7.6	11.5	9	7.5	11.1	8.9		10.3	8.7		65
70	7.2	7.2	6.8	11.4	8.8	7.4	11.5	8.9	7.4	11.1	8.8	7.4	10.8	8.7	7.3	10.1	8.5		70
75	6.7	7	6.8	10.9	8.6	7.3	11	8.7	7.3	10.7	8.6	7.3	10.4	8.5	7.2	9.9	8.3	7.2	75
80	6.2	6.9	6.8	10.4	8.4	7.2	10.6	8.4	7.2	10.4	8.4	7.2	10.1	8.3	7.1	9.7	8.2	7.1	80
85	5.8	6.9	6.8	10	8.2	7.1	10.2	8.3	7.1	10	8.2	7.1	9.9	8.2	7.1	9.5	8	7	85
90	5.5	6.8	6.8	9.7	8	7	9.8	8.1	7.1	9.7	8	7	9.6	8	7	9.3	7.9	6.9	90
95	5.2	6.7		9.4	7.9	7	9.5	7.9	7	9.5	7.9	7	9.4	7.9	6.9	9.1	7.8	6.9	95
100				9.1	7.7	6.9	9.3	7.8	6.9	9.2	7.8	6.9	9.2	7.7	6.9	8.9	7.6	6.9	100
105				8.8	7.6	6.9	9	7.6	6.9	9	7.6	6.9	9	7.6	6.8	8.7	7.5	6.8	105
110				8.6	7.4	6.8	8.8	7.5	6.8	8.8	7.5	6.8	8.8	7.5	6.8	8.6	7.4	6.8	110
115				8.3	7.3	6.8	8.5	7.4	6.8	8.6	7.4	6.8	8.6	7.4	6.8	8.4	7.3	6.7	115
120				7.9	7.2	6.8	8.2	7.3	6.8	8.4	7.3	6.8	8.4	7.3	6.7	8.3	7.2	6.7	120
125				7.6	7.1	6.8	8	7.2	6.8	8.1	7.2	6.7	8.2	7.2	6.7	8.1	7.2	6.7	125
130				7.3	7	6.8	7.7	7.1	6.8	7.9	7.1	6.7	8	7.1	6.7	7.9	7.1	6.7	130
135				7	7	6.8	7.4	7	6.8	7.6	7.1	6.7	7.8	7.1	6.7	7.8	7	6.7	135
140				6.8	6.9	6.8	7.1	7	6.8	7.3	7	6.7	7.5	7	6.7	7.5	7	6.6	140
145				6.5	6.9	6.8	6.9	6.9	6.8	7.1	6.9	6.7	7.3	6.9	6.7	7.3	6.9	6.6	145
150				6.3	6.8	6.8	6.6	6.9	6.8	6.9	6.9	6.7	7.1	6.9	6.7	7.1	6.8	6.6	150
155				6.1	6.8	6.8	6.4	6.8	6.8	6.7	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.6	155
160				5.9	6.8	6.8	6.1	6.7	6.7	6.4	6.8	6.7	6.4	6.7	6.7	6.6	6.8	6.6	160
165				5.7	6.8	6.8	5.8	6.4	6.6	6	6.5	6.7	6.2	6.6	6.7	6.4	6.6	6.6	165
170				5.6	6.8		5.7	6.3	6.6	5.9	6.4	6.6	6.1	6.5	6.6	6.2	6.5	6.6	170
175				5.4			5.6	6.2	6.6	5.8	6.3	6.5	6	6.3	6.5	5.8	6.3	6.5	175
180							5.5	6.1		5.7	6.2	6.4	5.8	6.2	6.4	5.7	5.9	6.2	180
185							5.4	6.1		5.6	6.1	6.4	5.6	6	6.1	5.4	5.6	5.8	185
190							3.5			5.5	6	6.1	5.2	5.6	5.7	5	5.4	5.6	190
195										5.4	5.7		5	5.1	5.2	4.7	5.1	5.2	195
200										5.1	2.8		4.8	4.9	5.1	4.3	4.7	4.8	200
205													4.7	4.8		3.9	4.3	4.4	205
210													4.3	4.5		3.6	3.9	3.9	210
215													3.3			3.2	3.5	3.5	215
220																2.9	3.1		220
225																2.6	2.8		225

maxt_286_003_01001_00_000

Lifting capacities

Forces de levage

TK/TNZK



	189 ft			201 ft			202 ft			214 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
45	9.6									6.5			45
50	9.6			7.9			8.4			6.5			50
55	9.5			7.8			8.3			6.5			55
60	9.4	8.5		7.6			8.1			6.5			60
65	9.4	8.4		7.4	7		8	7.5		6.5			65
70	9.3	8.2		7.3	7		7.8	7.4		6.5	6.4		70
75	9.2	8.1		7.1	7		7.7	7.4		6.5	6.3		75
80	9	7.9	7	7.1	6.9		7.6	7.3		6.5	6.3		80
85	8.9	7.8	6.9	7	6.9	6.7	7.5	7.3	6.8	6.4	6.3		85
90	8.8	7.7	6.9	6.9	6.9	6.7	7.4	7.3	6.7	6.3	6.3	6.2	90
95	8.7	7.6	6.8	6.8	6.9	6.6	7.3	7.3	6.7	6.2	6.3	6.2	95
100	8.5	7.5	6.8	6.8	6.8	6.6	7.3	7.2	6.6	6.2	6.3	6.2	100
105	8.4	7.4	6.7	6.7	6.8	6.6	7.2	7.1	6.6	6.1	6.3	6.2	105
110	8.3	7.3	6.7	6.7	6.8	6.5	7.1	7.1	6.6	6.1	6.3	6.2	110
115	8.1	7.2	6.7	6.7	6.8	6.5	7.1	7	6.5	6	6.2	6.2	115
120	8	7.1	6.6	6.6	6.7	6.5	7	6.9	6.5	6	6.2	6.2	120
125	7.9	7.1	6.6	6.6	6.6	6.5	7	6.9	6.5	6	6.2	6.2	125
130	7.8	7	6.6	6.4	6.5	6.5	7	6.8	6.5	6	6.2	6.2	130
135	7.6	6.9	6.6	6.3	6.3	6.4	6.9	6.8	6.5	5.9	6.1	6.2	135
140	7.4	6.9	6.6	6.1	6.1	6.3	6.9	6.7	6.5	5.8	6	6.1	140
145	7.2	6.8	6.6	5.9	6	6.1	6.8	6.6	6.5	5.8	5.8	6	145
150	7	6.8	6.6	5.8	5.8	6	6.6	6.5	6.5	5.6	5.7	5.9	150
155	6.7	6.8	6.6	5.6	5.7	5.8	6.5	6.4	6.4	5.5	5.6	5.7	155
160	6.4	6.7	6.6	5.5	5.5	5.7	6.2	6.3	6.4	5.4	5.4	5.6	160
165	6.2	6.4	6.6	5.3	5.4	5.6	5.8	6.2	6.3	5.2	5.3	5.5	165
170	6	6	6.4	5.1	5.3	5.4	5.3	6	6.1	5	5.2	5.4	170
175	5.6	5.9	6	4.9	5.1	5.3	4.9	5.6	5.9	4.7	5	5.2	175
180	5.2	5.7	5.9	4.7	4.9	5.1	4.5	5.2	5.6	4.3	4.9	5.1	180
185	4.8	5.4	5.7	4.5	4.7	4.9	4.1	4.7	5.1	3.9	4.7	4.9	185
190	4.4	4.9	5.2	4.3	4.5	4.7	3.6	4.3	4.7	3.5	4.2	4.6	190
195	4	4.6	4.8	3.9	4.3	4.5	3.2	3.9	4.3	3.1	3.8	4.2	195
200	3.6	4.2	4.4	3.5	4.1	4.3	2.8	3.4	3.8	2.7	3.4	3.8	200
205	3.2	3.7	4	3.1	3.7	4	2.4	3	3.3	2.3	3	3.4	205
210	2.9	3.3	3.5	2.8	3.3	3.5	2	2.6	2.9	1.7	2.6	2.9	210
215	2.5	2.9	3.1	2.4	2.9	3.1	1.7	2.2	2.4		2.2	2.5	215
220	2.2	2.6	2.6	2.1	2.5	2.7		1.9	2			2.1	220
225	1.9	2.2	2.2	1.5	2.2	2.3		1.5	1.6				225
230	1.6	1.9			1.7	1.9							230
235	1.4	1.5											235

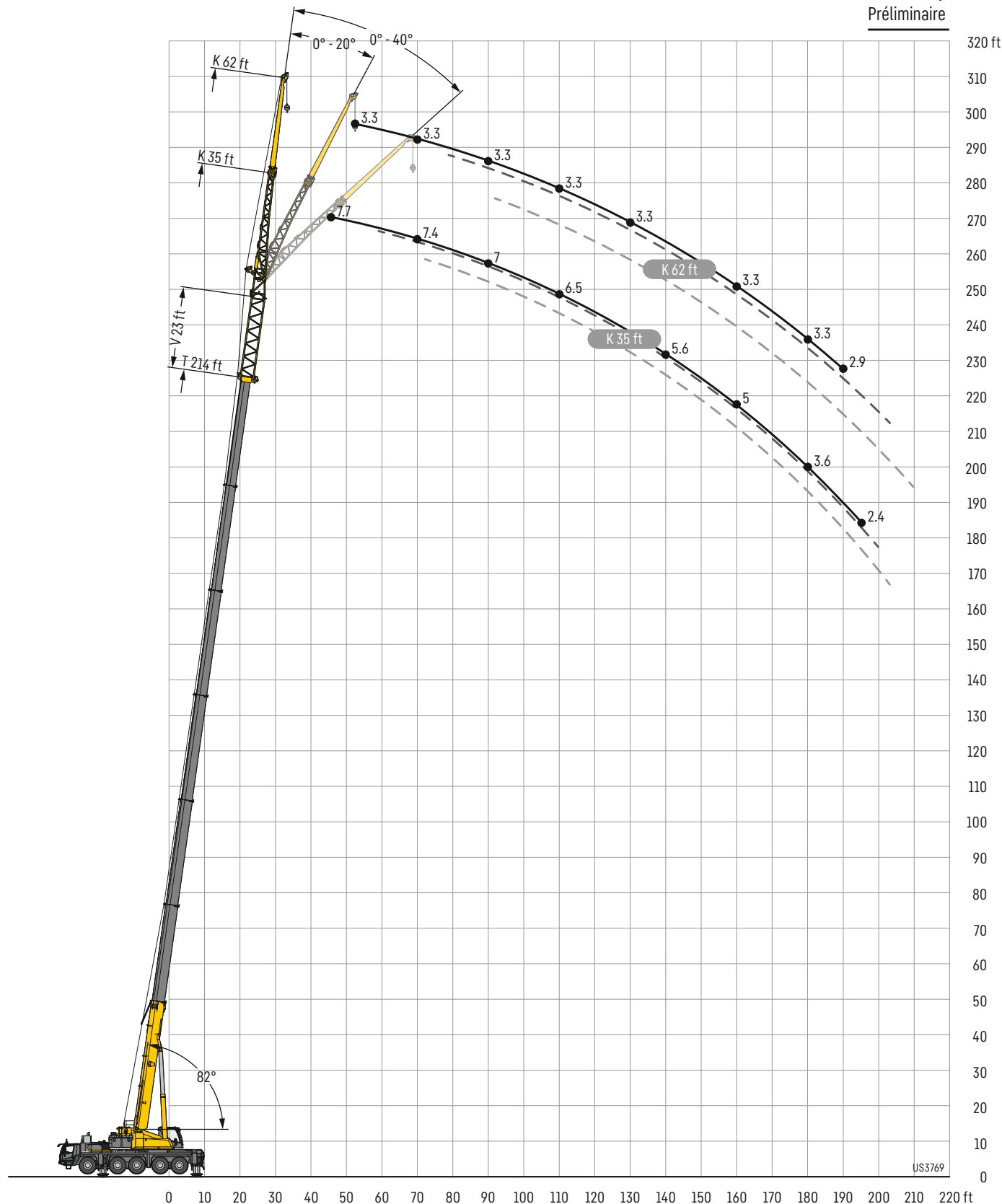
mact_286_003_01001_00_000

Lifting heights

Hauteurs de levage

TVK/TVNZK

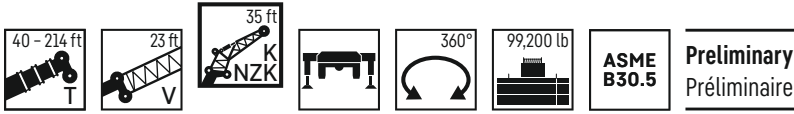
Preliminary
Préliminaire



Lifting capacities

Forces de levage

TVK/TVNZK

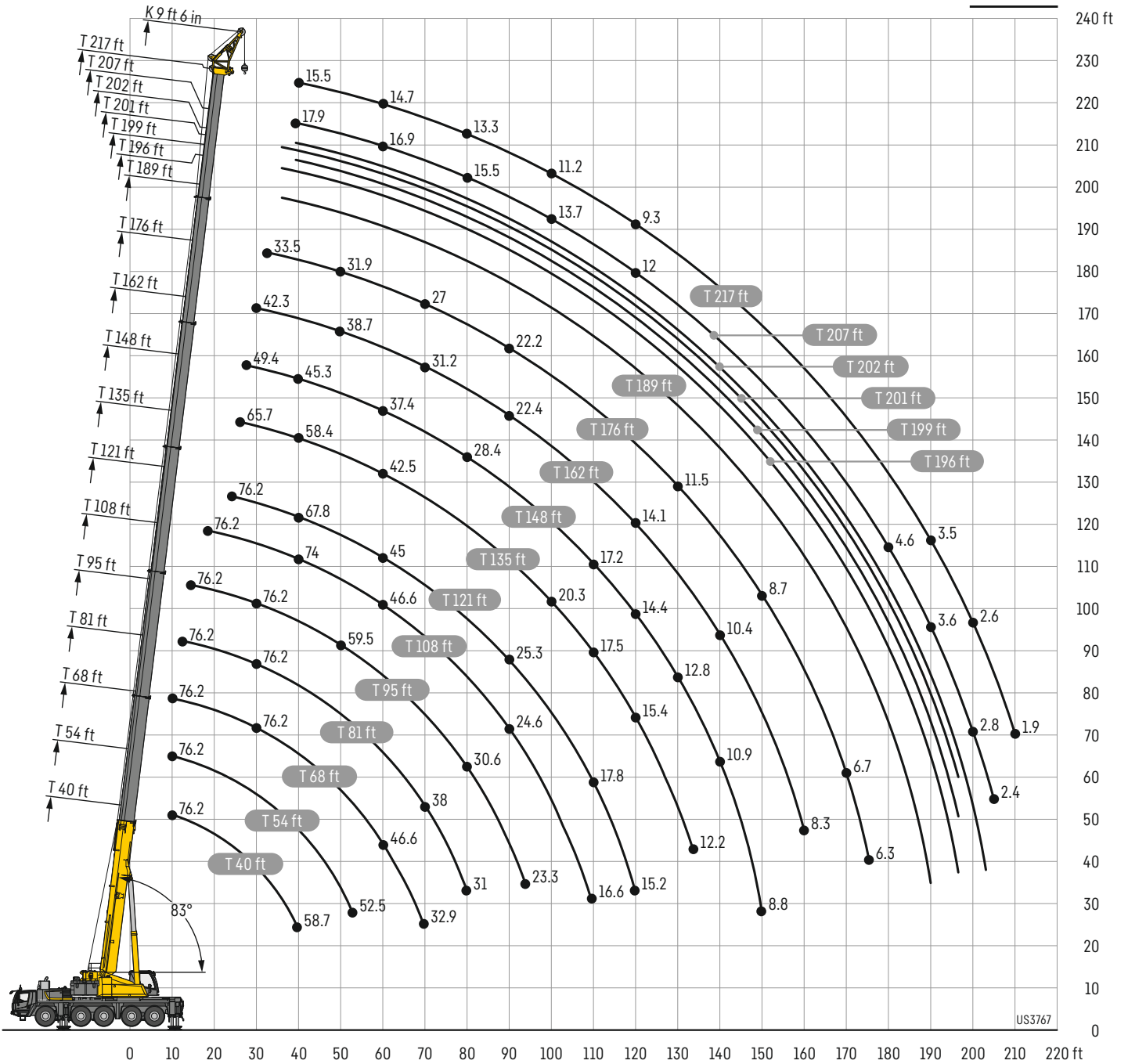


	40 ft + 23 ft			121 ft + 23 ft			135 ft + 23 ft			148 ft + 23 ft			162 ft + 23 ft			176 ft + 23 ft			189 ft + 23 ft			202 ft + 23 ft			214 ft + 23 ft			
	35 ft																											
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
10	33.3																											10
11	32.9																											11
12	32.4																											12
13	31.9																											13
14	31.4																											14
15	30.9																											15
16	30.4																											16
17	29.9																											17
18	29.3																											18
19	28.7																											19
20	28.1	25.8																										20
22	27	24.8																										22
24	25.8	23.7				33.5																						24
26	24.7	22.8				32.5																						26
28	23.8	21.9	20.4			32																						28
30	22.8	21	19.7			31.4																						30
32	21.9	20.2	19			30.9																						32
34	21	19.5	18.3			30.3	25.4																					34
36	20.2	18.8	17.7			29.7	24.9																					36
38	19.5	18.1	17.1			29.1	24.3																					38
40	18.8	17.5	16.6			28.4	23.7																					40
45	17.2	16.1	15.3			26.8	22.4	19.4																				45
50	15.8	14.9	14.3			25.3	21.2	18.5																				50
55	14.5	13.8	13.4			23.8	20.1	17.7																				55
60	13.3	12.8	12.5			22.6	19.1	16.9																				60
65	12.3	11.8	11.7			21.3	18.2	16.3																				65
70	11.4	11	11			20.2	17.4	15.6																				70
75	10.6	10.4	10.4			19.2	16.6	15																				75
80	9.9	9.8	9.9			18.2	15.9	14.4																				80
85	9.4	9.3	9.7			17.3	15.2	13.9																				85
90	9	9.1				16.5	14.6	13.5																				90
95						15.8	14	13																				95
100						15.1	13.4	12.6																				100
105						14.4	12.9	12.2																				105
110						13.7	12.4	11.8																				110
115						13	11.9	11.4																				115
120						12	11.5	11.1																				120
125						11.3	11.1	10.8																				125
130						10.8	10.4	10.4																				130
135						10.3	9.9	9.9																				135
140						9.9	9.7	9.8																				140
145						9.4	9.5	9.6																				145
150						8.9	9.1	9.2																				150
155						8.3	8.5	8.5																				155
160						7.8	7.9	7.9																				160
165						7.3	7.4																					165
170						6.3																						170
175																												175
180																												180
185																												185
190																												190
195																												195
200																												200
205																												205
210																												210
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Lifting heights Hauteurs de levage

Preliminary
Préliminaire



Equipment

Crane carrier

Frame	Self-manufactured, weight-optimized and torsion resistant box-type design of high-tensile structural steel.
Outriggers	4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display.
Engine	6-cylinder Diesel, make Liebherr, watercooled, output 400 kW (544 h.p.), max. torque 1856 lb-ft. Exhaust emissions to (EU 2016/1628 and EPA/CARB or ECE-R.96, spark arrestor. Fuel reservoir: 148 gallons.
Transmission	Automated 12-speed manual gearbox with oil-cooled multi-disk clutch including intarder. Distributor gear, two-stage, with locking differential.
Axles	Low maintenance carrier axles, all 5 axles steered. Axle 2, 4 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 4 with longitudinal differential lock.
Suspension	All axles are mounted on hydropneumatic suspension – “Niveumatik suspension” and are lockable hydraulically.
Tyres	10 tyres. Size of tyres: 445/95 R 25 (16.00 R 25).
Steering	2-circuit system with hydraulic servo steering. Active speed depending rear axle steering, special steering programs for various driving situations.
Brakes	Service brake: all-wheel servo-air brake, all axles are equipped with disc brakes, dual circuit. Parking brake: Spring brake actuator, acting on the wheels of the 2nd to 5th axle. Additional brakes: exhaust flap brake, Telma Eddy current brake (optional), intarder in gearbox.
Driver's cab	Spacious corrosion resistant with comfort furnishings, mounted on rubber shock absorbers, safety glazing.
Electrical system	Modern data bus technique, 24 Volt DC.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane drive	Mechanical drive of the crane hydraulic from the chassis. Variable axial piston pumps with servo control and power regulation.
Control	Electric „Load Sensing“ control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type).
Hoist gear	Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	1 differential ram with pilot-controlled brake valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. Slewing gear invertible from released to locked as standard feature.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON3 safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
Telescopic boom	1 base section and 6 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 40 ft to 217 ft.
Counterweight	63,930 lb
Electrical system	Modern data bus technique, 24 Volt DC.

Additional equipment

K	Assembly jib 9 ft 6 in.
K	Single folding jib, 35 ft. Double swing-away jib 35 ft – 62 ft. Mechanical adjustment 0°; 20°; 40°.
NZK	Single folding jib, 35 ft. Double swing-away jib 35 ft – 62 ft. Hydraulic adjustment 0° – 40°.
V	Telescopic boom extension 23 ft.
2nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Tyres	10 tyres, size 525/80 R 25 (20.5 R 25).
Drive 10 x 8	Additional drive of the 1st axle.
Additional counterweight	35,270 lb for a total counterweight of 99,200 lb.

Other items of equipment available on request.

Équipement

Châssis porteur

Cadre	Construction en caisse résistante à la torsion et optimisée en poids réalisée par Liebherr en acier de construction à grain fin très rigide.
Calage	Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Utilisation avec commande à distance, mise à niveau automatique du calage, inclinomètre électronique.
Moteur	Moteur diesel, 6 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 400 kW (544 ch), couple max. 1856 lb-ft. Emissions des gaz d'échappement conformes aux directives (EU) 2016/1628 et EPA/CARB ou ECE-R.96, pare-étincelles. Capacité du réservoir à carburant: 148 gallons.
Boîte de vitesse	Boîte de vitesses 12 rapports automatisée avec embrayage multidisque sous bain d'huile, incl. ralentisseur. Mécanisme de distribution deux étages avec blocage du différentiel de distribution.
Essieux	Essieux nécessitant peu d'entretien, les 5 essieux sont directeurs. Les essieux 2, 4 et 5 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal et l'essieu 4 avec différentiel longitudinal.
Suspension	Suspension hydropneumatique «Niveumatik» - sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.
Pneumatiques	10 pneus. Taille: 445/95 R 25 (16.00 R 25).
Direction	2 circuits avec direction assistée hydraulique. Direction active des essieux arrière et dépendante de la vitesse, programmes de direction spéciaux pour les différents modes de déplacement.
Freins	Freins de service : servofrein à air comprimé, tous les essieux sont munis de freins à disque, à 2 circuits. Frein à main : ressort accumulé agissant sur les roues des essieux 2 à 5. Freins auxiliaire : par clapet sur échappement, frein Telma (option), ralentisseur monté sur boîte de vitesse.
Cabine	Spacieuse cabine, traitement anticorrosion, équipement «grand confort», suspension par silentblochs, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts.

Partie tournante

Cadre	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
Entraînement	Entraînement mécanique de l'hydraulique de la grue par le châssis de la grue. Pompes réglables à pistons axiaux avec servocommande et réglage de puissance.
Commande	Direction électrique "Load Sensing", 4 mouvements de travail dirigeable simultanément, deux leviers de commande à 4 positions et à autocentrage.
Mécanisme de levage	Moteur à cylindrée constante et à pistons axiaux. Treuil de marque Liebherr équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.
Mécanisme de relevage	1 vérin différentiel avec clapet de frein commandé.
Dispositif de rotation	Moteur à cylindrée constante à pistons axiaux, réducteur planétaire, frein d'arrêt commandé par ressort. Commutation en série du mécanisme d'orientation: ouvert et en orientation freinée automatiquement.
Cabine de grue	Construction en tôle d'acier entièrement zinguée avec peinture par poudrage et cuisson au four, avec glaces de sécurité, appareils de commande et de contrôle, équipement confortable. Cabine inclinable vers l'arrière.
Dispositif de sécurité	Contrôleur de charge, «LICCON3», système test, limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.
Flèche télescopique	Un élément de base et de 6 télescopes. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMATIK. Longueur de flèche: 40 ft - 217 ft.
Contrepoids	63,930 lb
Installation électrique	Technique moderne de transmission de données. Courant continu 24 Volts.

Équipement supplémentaire

K	Flechette de montage 9 ft 6 in.
K	Flechette pliante simple, longueur 35 ft. Double flechette pliante 35 ft - 62 ft. Réglage mécanique 0° ; 20° ; 40°.
NZK	Flechette pliante simple, longueur 35 ft. Double flechette pliante 35 ft - 62 ft. Réglage hydraulique 0° - 40°.
V	Rallonge flèche télescopique 23 ft.
2ème mécanisme de levage	Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec flechette pliante lorsque le câble de levage principal rest mouflé.
Pneumatiques	10 pneus. Taille: 525/80 R 25 (20.5 R 25).
Entraînement 10 x 8	Essieu 1 est entraîné additionnellement.
Contrepoids additionnel	35,270 lb pour un contrepoids total de 99,200 lb.

Autres équipements supplémentaires sur demande.

Description of symbols

Explication des symboles



Max. capacity
Capacité max.



Outriggers front
Calage avant



Telescopic boom
Flèche télescopique



Max. hoist height
Hauteur de levage max.



Outriggers rear
Calage arrière



Hydraulic swing away jib
Flèche pliante hydraulique



Max. radius
Portée max.



Crane superstructure
Partie tournante de la grue



Telescopic boom extension
Rallonge flèche télescopique



Tyres
Pneumatiques



infinitely variable
en continu



Assembly jib
Flèche de montage



Hookblock/Capacity
Moufle à crochet/Capacité de charge



Rope diameter
Diamètre



No. of sheaves
Poulies



Rope length
Longueur du câble



No. of lines
Brins



Max. single line pull
Effort au brin maxi.



Weight
Poids



Hoist gear
Treuil de levage



Crane carrier
Châssis porteur



Slewing speeds
Vitesses d'orientation



Driving speed
Vitesse de translation



Boom length
Longueur de la flèche



Gradability
Aptitude à gravir les pentes



Boom position
Position de la flèche



Transmission
Boîte de vitesse



Counterweight
Contrepoids



Gear
Vitesse



Outriggers
Calage



Onroad gear
Vitesse de route



Slewing gear / Working area
Mécanisme d'orientation / Plage de travail



Crawl speed
Marche lente



Standard
Norme



Max. supporting forces
Forces d'appui max.



Radius
Portée

Remarks

1. The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4. Lifting capacities are given in kip.
5. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6. Working radii are measured from the slewing centre.
7. The stated lengths of the telescopic boom are maximum values and may deviate slightly.
8. The lifting capacities given for the telescopic boom apply if the folding jib is removed.
9. Subject to modification of lifting capacities.
10. Lifting capacities above 189,600 lb/257,700 lb only with additional pulley block/special equipment.
11. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.
12. The illustrations in this brochure may feature accessories and special equipment not included in the standard scope of delivery.

Remarques

1. La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4. Les charges sont indiquées en kip.
5. Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
6. Les portées sont calculées à partir de l'axe de rotation.
7. Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.
8. Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
9. Charges données sous réserve de modification.
10. Forces de levage plus de 189,600 lb/257,700 lb seulement avec moufle additionnel/equipement supplémentaire.
11. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.
12. Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

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MyLiebherr



Planning

Crane Finder



Operations

Performance



Planning

Crane Planner 2.0



Operations

Documents



Maintenance

Spare Parts Catalogue



Planning

LICCON Work Planner



Training

Digital Crane Operator



Maintenance

Parts Shop

Proposition 65



WARNING: This product can expose you to chemicals, including exhaust emissions, including lead and lead compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information see: www.P65warnings.ca.gov/diesel

Subject to modification · Sous réserve de modification

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