

Mobile Crane/Grue mobile

LTM 1090-4.2

All-Rounder – Ready for anything



110 USt



197 ft



203 ft



249 ft



LIEBHERR

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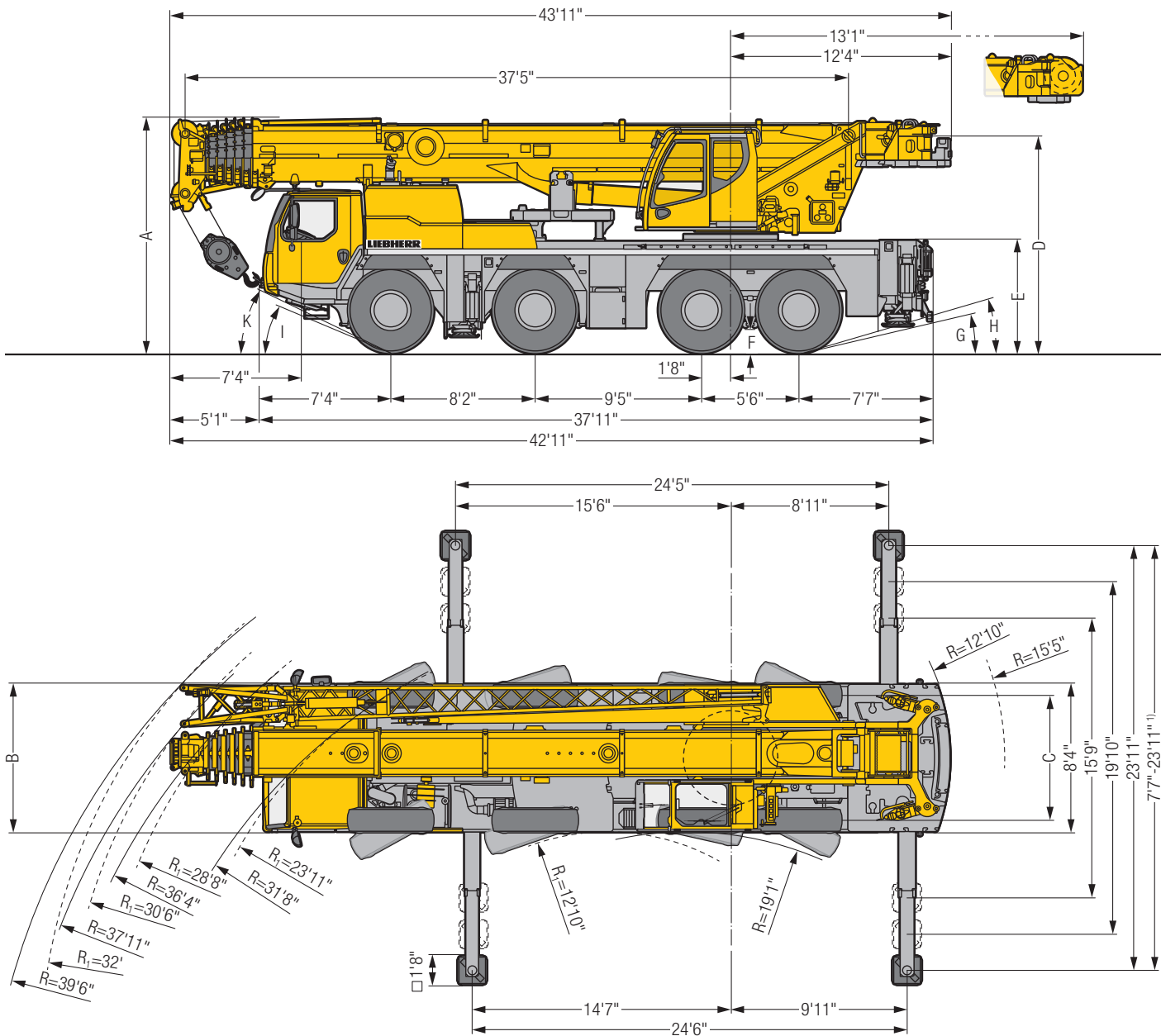
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Dimensions Encombrement



US3087.02

R₁ = All-wheel steering · Direction toutes roues ¹⁾ only with VarioBase® · seulement avec VarioBase®

Dimensions/Encombrement

	A	A ₄ **	B	C	D	E	F	G	H	I	K
445/95 R 25 (16.00 R 25)	13'1"	12'10"	8'4"	6'11"	12'1"	6'3"	1'4"	13°	17°	24°	27°
525/80 R 25 (20.5 R 25)	13'1"	12'10"	8'10"	7'1"	12'1"	6'3"	1'4"	13°	17°	24°	27°

* lowered · abaissé

Mobile Crane/Grue mobile

LTM 1090-4.2



197 ft



31 ft – 52 ft



8.4 ft (445/95 R 25)

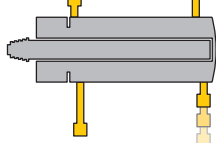


49,600 lbs

€COmode

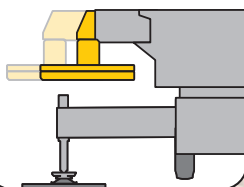
€COdrive

VarioBase®



Option

VarioBallast®



Counterweight/Contrepoids

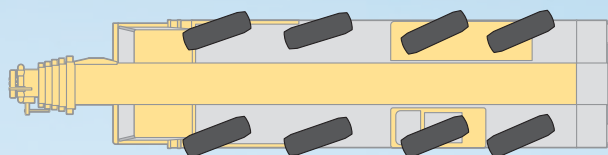
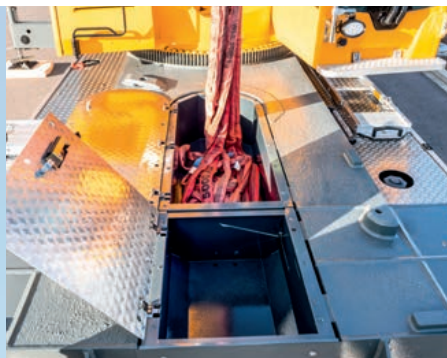
Fast changing system for various driving situations

Système de changement rapide pour les configurations de conduite les plus diverses





Integrated storage areas for the daily operation
Rangements intégrés pour l'usage quotidien



Variable steering concept
Concept de direction variable



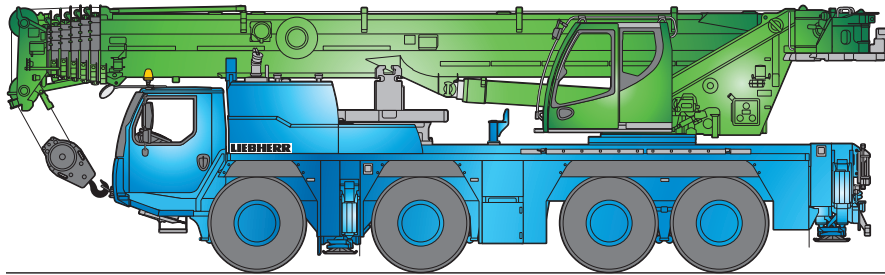
Fuel saving and noise reduction

Economie de carburant et réduction du bruit

€COmode

Automatic regulation of the engine speed during crane mode reduce fuel about 10 %

Régulation automatique de la vitesse du moteur pendant les travaux avec la grue permet de réduire la consommation de carburant jusqu'à env. 10 %



S3093

€COdrive

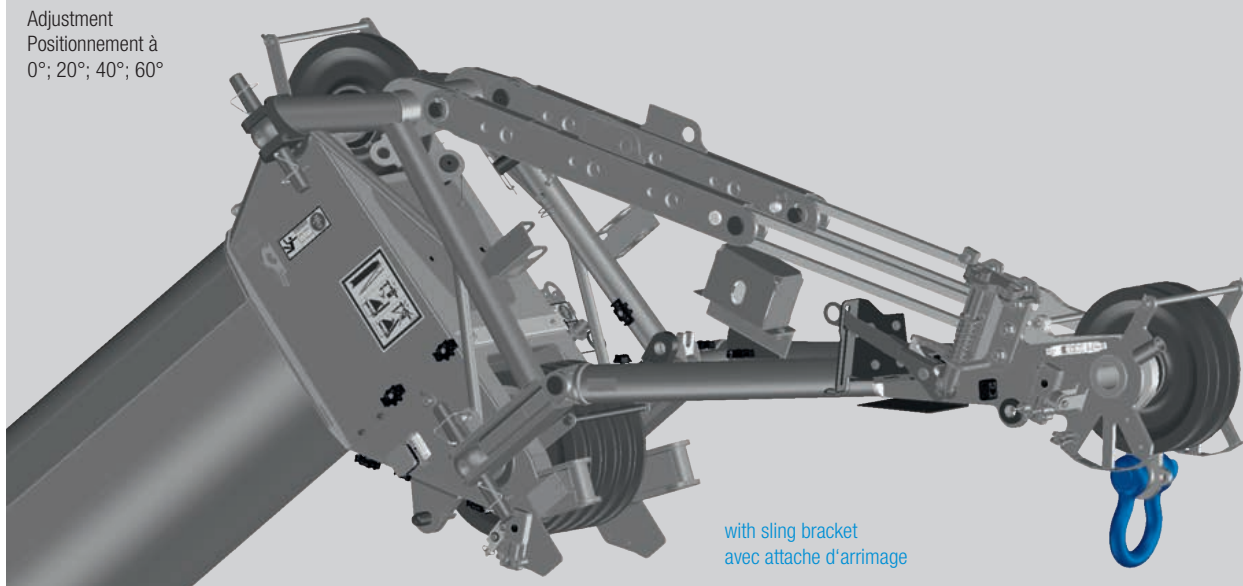
New ZF-TraXon transmission
Nouvelle boîte ZF-TraXon

Driving strategy in the carrier with ECO- or Powermode to reduce noise and fuel
L'adaptation du mode de déplacement avec le mode ECO ou le mode Puissance permet de réduire le niveau sonore et la consommation de carburant

Flexible assembly jib 6.5 ft

Flèche de montage flexible 6.5 ft

Adjustment
Positionnement à
0°; 20°; 40°; 60°



with sling bracket
avec attache d'arrimage

Weights Poids

Hook block/Moufles à crochet

Load lbs Forces de levage lbs	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
149,900	7	12	1,675
130,500	5	10	1,170
93,250	3	7	990
41,225	1	3	660
13,900	—	1	310

Working speeds Vitesses

Crane carrier/Châssis porteur

	 min.	 max.	 %
445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	0.3	53	>60 *

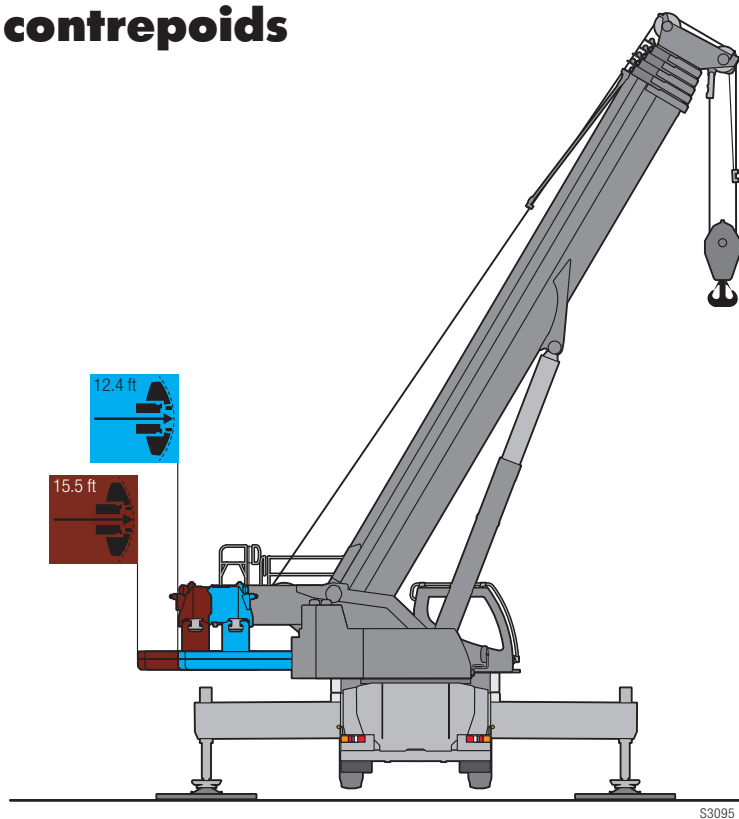
* Theoretical gradeability/Aptitude théorique en pente

	
	12 / R2
	4 / R2

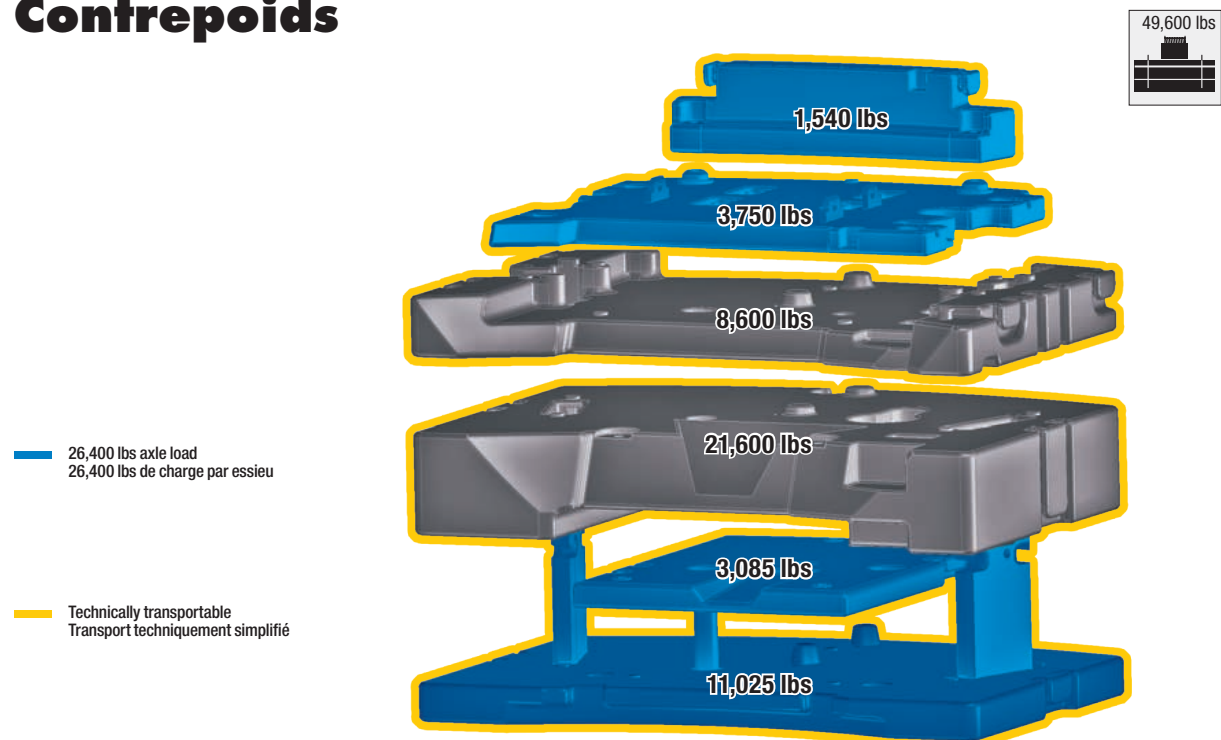
Crane superstructure/Partie tournante

Drive Mécanismes	infinitely variable en continu	Rope diameter / length Diamètre / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 – 410 ft/min single line ft/min au brin simple	0.67" / 804 ft	14,160 lbs
	0 – 410 ft/min single line ft/min au brin simple	0.67" / 804 ft	14,160 lbs
	0 – 1.5 rpm		
	approx. 57 seconds to reach 85° boom angle env. 57 s jusqu'à 85°		
	approx. 395 seconds for boom extension from 37 ft – 197 ft env. 395 s pour passer de 37 ft – 197 ft		

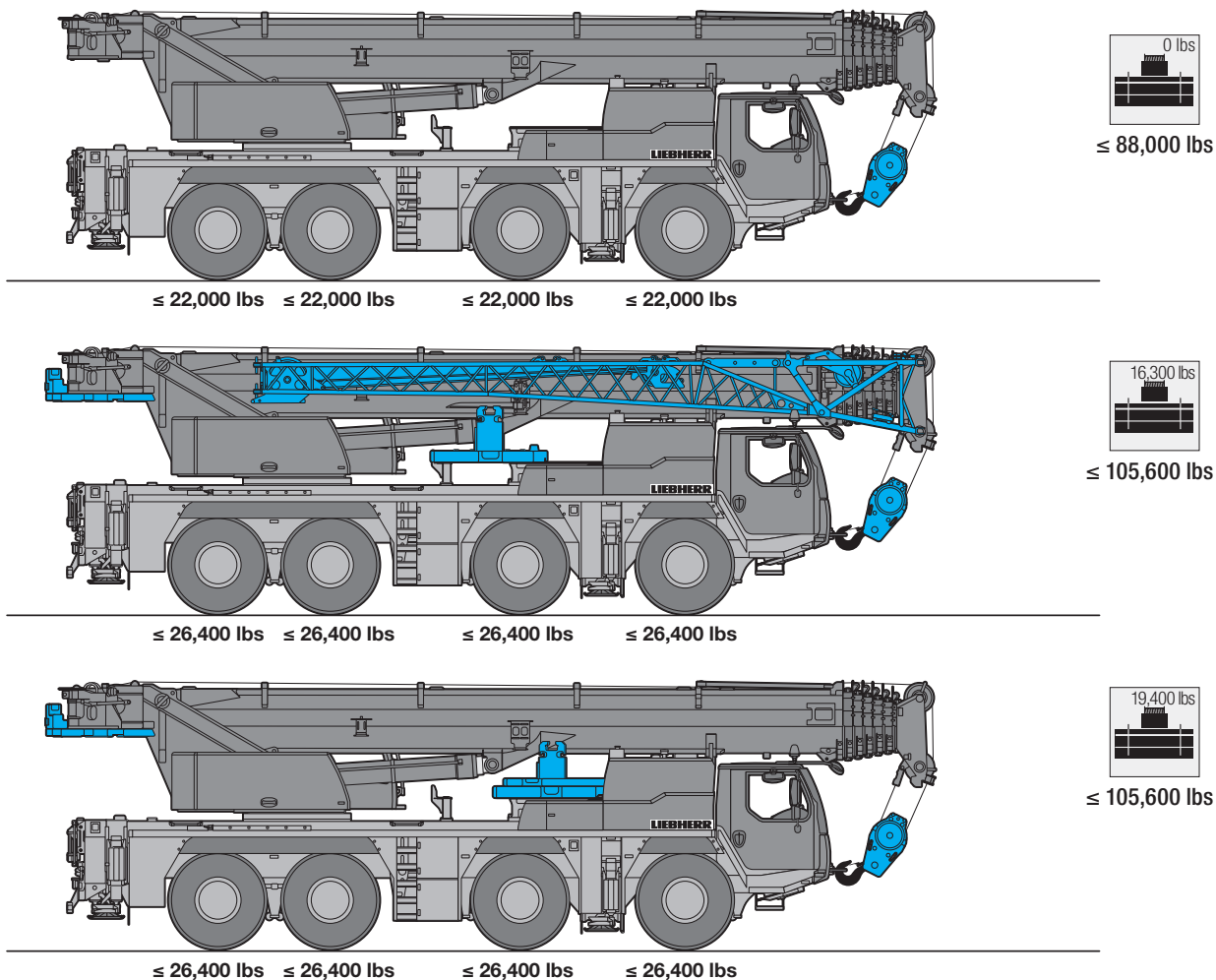
VarioBallast Counterweight radius Rayon de contrepoids



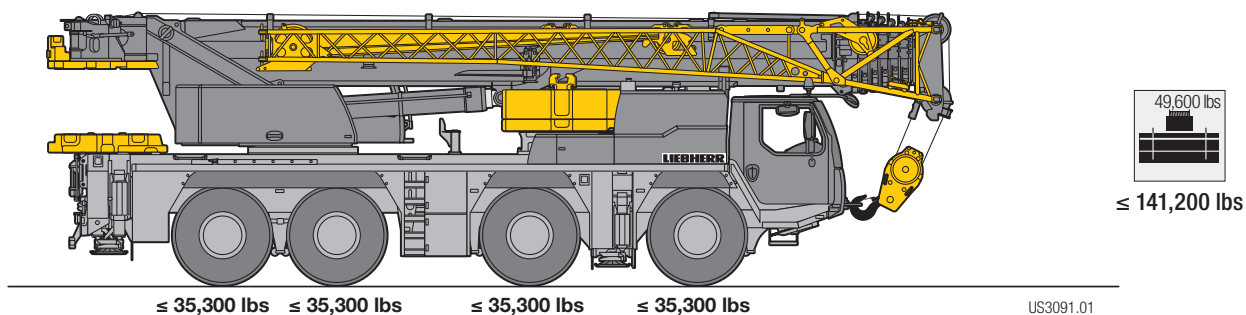
Counterweight Contrepoids



On-road driving Déplacement sur route



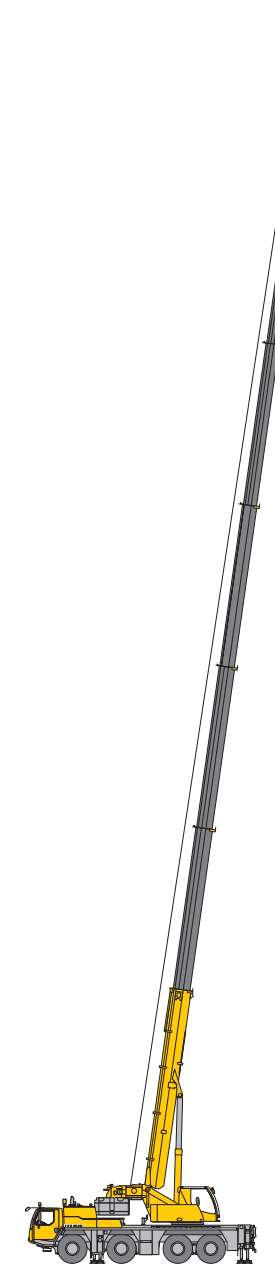
Jobsite driving Déplacement sur chantier



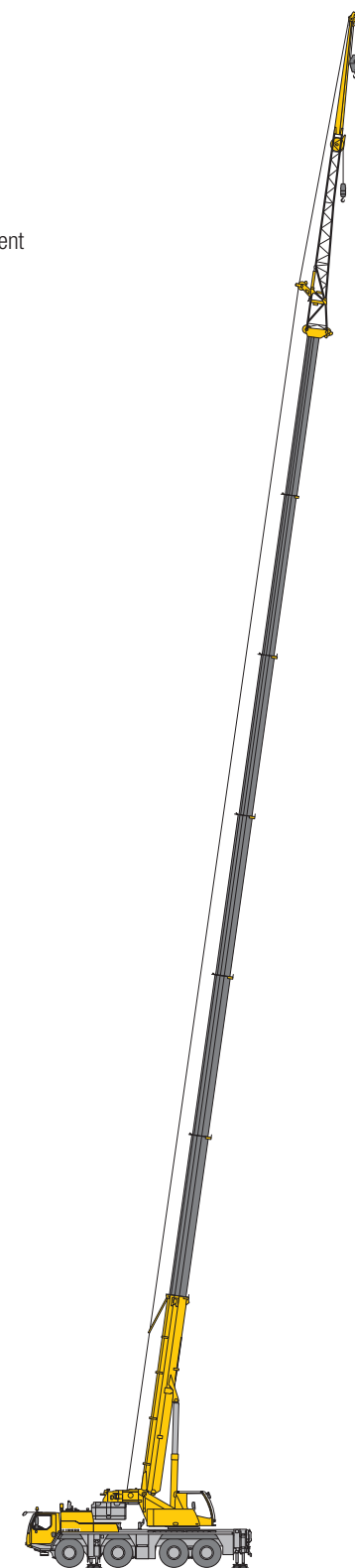
US3091.01

Boom/jib combinations Configurations de flèche

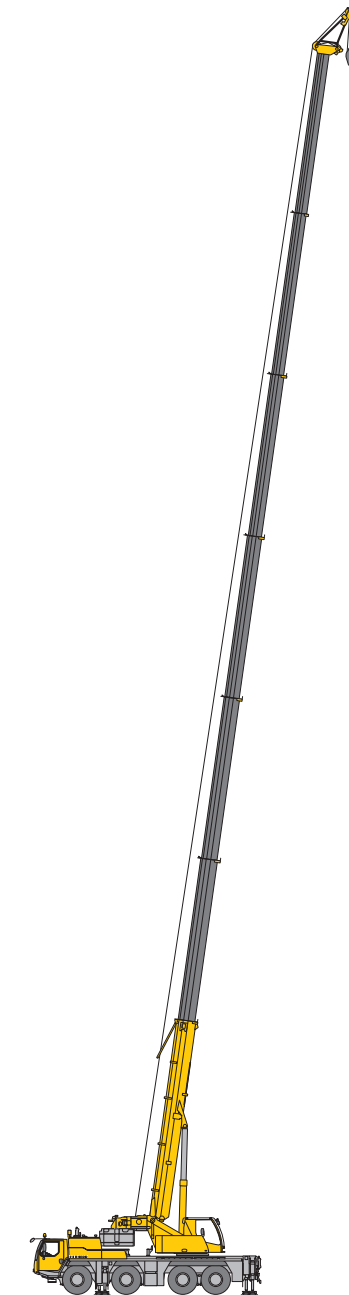
- T** Telescopic boom
Flèche télescopique
- K/NZK** Mechanical/hydraulic swing away jib
Fléchette pliante mécanique/hydraulique
- K** Mechanically adjustable assembly jib
Fléchette de montage réglable mécaniquement



T
11 – 17



TK/TNZK
18 – 22



TK
23 – 27

S3149.01

Lifting capacities

Forces de levage

T



85%

	37 ft	50 ft	62 ft	74 ft	86 ft	98 ft	111 ft	123 ft	135 ft	147 ft	160 ft	172 ft	182 ft	184 ft	195 ft	197 ft	
	*																
9	220																9
10	198.4	130.4	130.4	130.4	105.9												10
11	141.1	130.4	130.2	127	105.9	80.6											11
12	132.5	127.5	125.5	120.4	105.8	80.6											12
13	123.7	121.7	118.2	113.3	104.8	80.6											13
14	116.2	115.8	112.3	107.8	102.7	80.6	67.3										14
15	111.1	110.1	106.8	101.8	98.5	80.6	66.9										15
16	106.6	104.9	101.7	96.8	93.5	80.4	66.4	54.2									16
17	102.5	100.1	97.8	92.9	89.4	79.8	65.7	53.8									17
18	98.6	95.6	94.1	89.6	86	79	64.8	53.3									18
19	95	91.6	90.8	86.5	82.9	78.1	64	52.8	42.5								19
20	91.5	87.8	87.6	83.5	80	76.9	63.2	52.3	42.5								20
22	84.5	80.9	82	78.2	76.2	73.4	61.6	51.1	42.2	33.6							22
24	76.9	74.5	75.7	73.4	71.7	68.8	60	50	41.9	33.5	24.1						24
26	70.5	68.7	70	69	67.7	64.8	58.4	48.9	41.7	33.4	25.7						26
28	65	63.3	64.6	64.5	64	61.3	56.7	47.8	41.3	33.2	25.5	20.3					28
30	56.9	56.9	59.8	60.5	60.2	58.2	54.7	46.7	40.9	32.9	25.2	20.1	13.9				30
32			55.4	56.1	56.2	55.1	52.7	45.6	40.2	32.1	24.8	19.9	16.1	10.9	11.7		32
34			51.5	52.1	52.3	51.9	50.6	44.6	39	31.3	24.3	19.6	15.9	10.8	11.7	9.3	34
36			47.9	48.6	48.7	48.4	48.7	43.5	37.7	30.5	23.9	19.3	15.8	10.8	11.6	9.3	36
38			45.1	45.4	45.4	45.1	46	42.5	36.3	29.8	23.3	19	15.6	10.7	11.5	9.3	38
40			42.1	42.4	42.5	42.6	43.1	41.4	35	29	22.8	18.7	15.4	10.6	11.4	9.3	40
45				36.2	36.6	37.3	36.8	36.2	32	27.3	21.1	17.7	14.8	10.4	11.2	9.2	45
50				32.1	32.5	32.3	31.9	31.4	29.2	25.7	19.5	16.6	13.9	10.1	10.8	9	50
55				26.6	28.5	28.4	27.9	27.3	26.6	24.2	17.9	15.5	12.4	9.7	10.5	8.9	55
60				25	24.9	24.4	23.8	23.1	22.7	16.5	14.5	11.7	9.2	10	8.7	8.5	60
65					22.1	22	21.5	20.9	21.4	20.9	15.3	13.5	11.1	8.8	9.6	8.4	65
70					19.5	19.1	19.1	19.2	18.5	14.1	12.6	10.4	8.4	9.1	8.1	8	70
75					17.5	17	17.7	17.1	16.3	13.4	11.7	9.8	8	8.7	7.7	7.7	75
80						15.9	15.9	15.2	14.5	12.8	10.8	9.3	7.6	8.4	7.4	7.4	80
85						14.8	14.3	13.6	12.9	12.2	10.1	8.9	7.3	8	7.1	7.1	85
90						13.4	12.9	12.2	11.5	11.7	9.5	8.4	6.9	7.7	6.8	6.8	90
95							11.6	10.9	10.8	10.7	8.9	8	6.6	7.4	6.5	6.5	95
100							10.5	9.8	10.2	9.6	8.6	7.7	6.3	7.1	6.3	6.2	100
105								9.4	9.3	8.7	8.3	7.3	6	6.8	6	6	105
110								9	8.5	8	8	6.9	5.7	6.5	5.8	5.7	110
115								8.4	7.9	7.4	7.4	6.6	5.5	6.2	5.5	5.5	115
120									7.2	7.2	6.8	6.4	5.2	5.9	5.3	5.3	120
125									6.7	6.8	6.3	6.1	5	5.7	5.1	5.1	125
130										6.3	5.9	5.8	4.8	5.4	4.9	4.9	130
135										5.8	5.7	5.3	4.6	5.1	4.7	4.6	135
140										5.4	5.3	5	4.4	4.7	4.5	4.4	140
145											4.9	4.7	4.2	4.3	4.3	4.2	145
150											4.5	4.4	4	3.9	4		150
155												4	3.9	3.6	3.7	3.6	155
160												3.7	3.7	3.3	3.3	3.3	160
165													3.4	2.9	3	3	165
170													3.2	2.6	2.7	2.6	170
175													2.9	2.3	2.4	2.3	175
180															2.1	2	180
185															1.8		185

* ± 0° over rear - en arrière

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Lifting capacities

Forces de levage

T



85%

	37 ft	50 ft	62 ft	74 ft	86 ft	98 ft	111 ft	123 ft	135 ft	147 ft	160 ft	172 ft	182 ft	184 ft	195 ft	197 ft	
10	130.4	130.4	130.4	105.9													10
11	130.2	130.2	127	105.9	80.6												11
12	126.8	125.5	120.4	105.8	80.6												12
13	120.3	118.2	113.3	104.8	80.6												13
14	114.1	112.3	107.8	102.7	80.6	67.3											14
15	108.4	106.8	101.8	98.5	80.6	66.9											15
16	103.3	101.7	96.8	93.5	80.4	66.4	54.2										16
17	98.5	97.8	92.9	89.4	79.8	65.7	53.8										17
18	94.2	94.1	89.6	86	79	64.8	53.3										18
19	90.1	90.6	86.5	82.9	78.1	64	52.8	42.5									19
20	86.3	87.1	83.5	80	76.9	63.2	52.3	42.5									20
22	78.8	80.1	78.2	76.2	73.4	61.6	51.1	42.2	33.6								22
24	72	73.4	72.9	71.7	68.8	60	50	41.9	33.5	24.1							24
26	65.8	67.2	67.5	67.5	64.8	58.4	48.9	41.7	33.4	25.7							26
28	60.2	61.6	62.4	62.4	61.3	56.7	47.8	41.3	33.2	25.5	20.3						28
30	55.3	56.6	57.4	57.5	57.2	54.7	46.7	40.9	32.9	25.2	20.1	13.9					30
32		52.3	53.1	53.1	52.8	52.5	45.6	40.2	32.1	24.8	19.9	16.1	10.9	11.7			32
34		48.8	49.1	49.2	48.8	49.8	44.6	39	31.3	24.3	19.6	15.9	10.8	11.7	9.3		34
36		45.3	45.6	45.7	46.3	46.2	43.5	37.7	30.5	23.9	19.3	15.8	10.8	11.6	9.3	9.1	36
38		42.2	42.5	42.5	43.6	43.2	42.3	36.3	29.8	23.3	19	15.6	10.7	11.5	9.3	9.1	38
40		39.3	39.9	40.3	40.7	40.3	39.7	35	29	22.8	18.7	15.4	10.6	11.4	9.3	9.1	40
45			34.5	34.9	34.8	34.3	33.7	32	27.3	21.1	17.7	14.8	10.4	11.2	9.2	9	45
50			29.6	29.9	29.8	29.4	28.7	27.9	25.7	19.5	16.6	13.9	10.1	10.8	9	8.9	50
55			25.6	25.9	25.8	25.3	24.7	24.2	24.2	17.9	15.5	12.4	9.7	10.5	8.9	8.7	55
60				22.6	22.5	22.1	21.6	22.1	21.4	16.5	14.5	11.7	9.2	10	8.7	8.5	60
65				19.9	19.8	19.3	20	19.4	18.7	15.3	13.5	11.1	8.8	9.6	8.4	8.3	65
70					17.4	17.8	17.7	17.1	16.3	14.1	12.6	10.4	8.4	9.1	8.1	8	70
75					15.4	16.2	15.7	15	14.3	13.4	11.7	9.8	8	8.7	7.7	7.7	75
80						14.4	14	13.3	12.5	12.7	10.8	9.3	7.6	8.4	7.4	7.4	80
85						12.9	12.5	11.8	11.9	11.5	10.1	8.9	7.3	8	7.1	7.1	85
90						11.6	11.1	10.7	10.9	10.2	9.4	8.4	6.9	7.7	6.8	6.8	90
95							9.9	10.2	9.7	9.1	8.9	8	6.6	7.4	6.5	6.5	95
100							9.2	9.3	8.8	8.3	8.4	7.7	6.3	7.1	6.3	6.2	100
105								8.6	8.1	8	7.6	7.1	6	6.8	6	6	105
110								7.9	7.4	7.5	7	6.9	5.7	6.5	5.8	5.7	110
115								7.3	7	6.8	6.6	6.4	5.5	6.2	5.5	5.5	115
120									6.8	6.3	6.2	5.9	5.2	5.6	5.3	5.3	120
125									6.3	5.8	5.7	5.6	5	5.1	5.1	5	125
130										5.6	5.2	5.1	4.8	4.6	4.7	4.6	130
135										5.3	4.8	4.7	4.6	4.2	4.2	4.1	135
140										4.9	4.5	4.2	4.3	3.8	3.8	3.7	140
145											4.2	3.9	3.9	3.4	3.4	3.3	145
150											3.8	3.5	3.5	3	3.1	3	150
155												3.1	3.2	2.6	2.7	2.6	155
160												2.8	2.9	2.2	2.3	2.2	160
165													2.5	1.9	2	1.9	165
170													2.2				170
175													1.9				175

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Lifting capacities

Forces de levage

T



85%

	37 ft	50 ft	62 ft	74 ft	86 ft	98 ft	103 ft	111 ft	117 ft	123 ft	129 ft	135 ft	142 ft	147 ft	156 ft	160 ft	168 ft	172 ft	182 ft	184 ft	195 ft	197 ft	
10	130.4	130.4	130.4	105.9																			10
11	127.9	129.8	127	105.9	80.6																		11
12	122.5	122.5	120.4	105.8	80.6																		12
13	115.9	115.9	113.3	104.8	80.6																		13
14	109.9	110.1	107.8	102.7	80.6	67.3																	14
15	104.3	105	101.8	98.5	80.6	66.9	27.7																15
16	98.6	99.4	96.8	93.5	80.4	66.4	27.7	54.2															16
17	93.3	94	92.9	89.4	79.8	65.7	27.7	53.8															17
18	88	88.8	88.8	86	79	64.8	27.6	53.3															18
19	82.9	83.9	84.1	82.6	77.9	64	27.1	52.8	23.4	42.5													19
20	78.2	79.6	79.4	79	75.8	63.2	26.6	52.3	22.9	42.5													20
22	69.5	71	71.9	71.8	67.6	61.6	25.4	51.1	21.9	42.2	21	33.6											22
24	62	63.6	64.6	64.1	61.7	58.9	24.2	50	20.9	41.9	20.3	33.5	18.6	24.1									24
26	55.8	58	58.3	57.7	56.4	53.3	23.1	48.7	20	41.7	19.6	33.4	18.2	25.7	14								26
28	50.1	52.5	52.8	53.2	51.4	48.6	22	45.7	19.1	41.3	18.9	33.2	17.7	25.5	14	20.3							28
30	45	47.4	48.7	49.1	47.1	44.5	21.1	41.9	18.3	39.1	18.2	32.9	17.1	25.2	14	20.1	12.7	13.9					30
32		43	44.3	44.8	43.3	41.1	20.2	38.6	17.5	36.5	17.5	32.1	16.6	24.8	13.9	19.9	12.6	16.1	10.9	11.7			32
34		39.2	40.4	40.9	39.9	37.9	19.4	35.6	16.7	34.2	16.8	31.3	16.1	24.3	13.9	19.6	12.5	15.9	10.8	11.7	9.3		34
36		35.7	37.1	37.5	37.1	35.1	18.7	33.1	16	31.7	16.2	30.5	15.6	23.9	13.6	19.3	12.4	15.8	10.8	11.6	9.3	9.1	36
38		32.6	34	34.4	34.3	32.7	17.9	30.9	15.4	30.4	15.6	28.6	15.1	23.3	13.3	19	12.2	15.6	10.7	11.5	9.3	9.1	38
40		29.9	31.2	31.7	31.6	30.4	17.3	28.8	14.8	28.6	15.1	26.6	14.6	22.8	13	18.7	12.1	15.4	10.6	11.4	9.3	9.1	40
45			25.7	26.1	26	25.4	15.8	25.8	13.4	24.2	13.8	22.5	13.5	20.9	12.2	17.7	11.5	14.8	10.4	11.2	9.2	9	45
50			21.5	21.8	21.7	22.6	14.5	22.1	12.2	20.6	12.7	19.1	12.5	17.7	11.5	16.6	10.9	13.9	10.1	10.8	9	8.9	50
55			18.2	18.5	19.4	19.2	13.3	18.6	11.1	17.7	11.7	16.6	11.6	16.3	10.8	14.9	10.4	12.4	9.7	10.5	8.9	8.7	55
60				16.1	16.6	16.3	12.3	15.7	10.3	15	10.8	15.2	10.7	14.2	10.2	12.9	9.8	11.7	9.2	10	8.7	8.5	60
65				14.2	14.2	14	11.4	13.3	9.5	13.7	10.1	12.9	10	12.1	9.6	11.8	9.3	10.9	8.8	9.6	8.4	8.3	65
70					12.3	12	10.7	12.3	8.8	11.8	9.4	11.1	9.3	11	9.1	10.3	8.8	9.7	8.4	9.1	8.1	8	70
75					10.6	10.7	10	10.7	8.3	10.1	8.8	10	8.7	9.4	8.7	9.2	8.3	8.8	8	8.4	7.7	7.7	75
80						9.6	9.5	9.3	7.8	9	8.4	8.9	8.2	8.7	8.2	8.3	7.9	8	7.6	7.4	7.2	7.1	80
85						8.6	8.7	8.3	7.4	8.3	7.9	7.9	7.7	7.7	7.8	7.4	7.4	7	7	6.4	6.5	6.4	85
90						7.8	7.8	7.5	7	7.5	7.5	7.1	7.2	6.9	7	6.5	6.6	6.1	6.1	5.6	5.6	5.5	90
95							7.1	6.8	6.6	6.7	6.8	6.3	6.4	6.1	6.2	5.7	5.8	5.4	5.4	4.8	4.8	4.7	95
100								6.1	6.2	6	6.1	5.7	5.7	5.4	5.5	5.1	5.1	4.7	4.7	4.2	4.2	4.1	100
105									5.5	5.4	5.5	5.1	5.1	4.8	4.9	4.5	4.5	4.1	4.1	3.5	3.6	3.5	105
110									5	4.9	5	4.5	4.6	4.3	4.4	3.9	4	3.5	3.6	3	3	2.9	110
115										4.4	4.5	4	4.1	3.8	3.9	3.4	3.5	3.1	3.1	2.5	2.5	2.4	115
120											4	3.6	3.7	3.4	3.5	3	3.1	2.6	2.7	2	2	1.9	120
125												3.2	3.3	3	3.1	2.5	2.7	2.2	2.3				125
130													2.9	2.5	2.7	2.1	2.2		1.8				130
135														2.1	2.3		1.8						135
140															1.8	1.9							140

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Lifting capacities

Forces de levage

T



85%

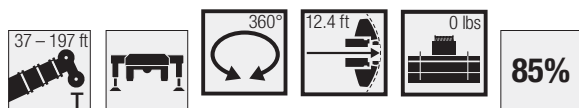
	37 ft	50 ft	62 ft	74 ft	86 ft	98 ft	103 ft	111 ft	117 ft	123 ft	129 ft	135 ft	142 ft	147 ft	156 ft	160 ft	168 ft	172 ft	182 ft	184 ft	195 ft	197 ft	
10	130.4	130.4	130.4	105.9																			10
11	127.5	129	127	105.9	80.6																		11
12	121.8	121.8	120.4	105.8	80.6																		12
13	115.2	115.3	113.3	104.8	80.6																		13
14	109.1	109.3	107.8	102.7	80.6	67.3																	14
15	103.2	104	101.8	98.5	80.6	66.9	27.7																15
16	97.5	98.4	96.8	93.5	80.4	66.4	27.7	54.2															16
17	92	92.8	92.4	89.4	79.8	65.7	27.7	53.8															17
18	86.4	87.3	87.6	85.8	79	64.8	27.6	53.3															18
19	81.2	82.6	82.6	80.8	77.3	64	27.1	52.8	23.4	42.5													19
20	76.4	78	77.9	77.5	72.6	63.2	26.6	52.3	22.9	42.5													20
22	67.6	69.3	70.1	68.5	64.2	61.5	25.4	51.1	21.9	42.2	21	33.6											22
24	60.3	62.1	62.9	60.9	59.4	55.9	24.2	50	20.9	41.9	20.3	33.5	18.6	24.1									24
26	54	56.2	56.6	56	53.6	50.6	23.1	47.4	20	41.7	19.6	33.4	18.2	25.7	14								26
28	48.1	50.5	51.8	51.2	48.8	46	22	43.3	19.1	40.1	18.9	33.2	17.7	25.5	14	20.3							28
30	43.1	45.5	46.8	46.7	44.6	42.1	21.1	39.6	18.3	37.6	18.2	32.9	17.1	25.2	14	20.1	12.7	13.9					30
32		41.2	42.5	42.8	41	38.8	20.2	36.4	17.5	34.8	17.5	32.1	16.6	24.8	13.9	19.9	12.6	16.1	10.9	11.7			32
34		37.3	38.6	39.2	37.8	35.8	19.4	33.7	16.7	32.4	16.8	31.1	16.1	24.3	13.9	19.6	12.5	15.9	10.8	11.7	9.3		34
36		33.8	35.2	35.7	35	33	18.7	31.2	16	30.7	16.2	28.7	15.6	23.9	13.6	19.3	12.4	15.8	10.8	11.6	9.3	9.1	36
38		30.9	32.2	32.7	32.4	30.6	17.9	29.5	15.4	28.6	15.6	26.6	15.1	23.3	13.3	19	12.2	15.6	10.7	11.5	9.3	9.1	38
40		28.3	29.6	30	29.9	28.3	17.3	28.1	14.8	26.6	15.1	24.7	14.6	22.6	13	18.7	12.1	15.4	10.6	11.4	9.3	9.1	40
45			24.3	24.7	24.6	25.1	15.8	24	13.4	22.4	13.8	20.7	13.5	19.2	12.2	17.7	11.5	14.8	10.4	11.2	9.2	9	45
50			20.2	20.6	21.2	21.3	14.5	20.5	12.2	19	12.7	17.7	12.5	17.3	11.5	16	10.9	13.9	10.1	10.8	9	8.9	50
55			17	17.4	18.1	17.8	13.3	17.1	11.1	16.4	11.7	16.4	11.6	15.2	10.8	13.8	10.4	12.4	9.7	10.5	8.9	8.7	55
60				15.2	15.3	15	12.3	14.4	10.3	14.6	10.8	13.8	10.7	12.9	10.2	12.7	9.8	11.5	9.2	10	8.7	8.5	60
65				13	13	12.7	11.4	13	9.5	12.5	10.1	11.8	10	11.6	9.6	11	9.3	10.2	8.8	9.6	8.4	8.3	65
70					11.1	11.4	10.7	11.2	8.8	10.6	9.4	10.5	9.3	10	9.1	9.7	8.8	9.3	8.4	8.7	8	8	70
75					9.6	10	10	9.6	8.3	9.6	8.8	9.2	8.7	9	8.7	8.6	8.3	8.2	8	7.6	7.5	7.4	75
80						8.8	8.9	8.5	7.8	8.5	8.4	8.1	8.1	7.9	8	7.5	7.5	7.1	7.1	6.5	6.5	6.5	80
85						7.8	7.9	7.6	7.4	7.5	7.6	7.2	7.3	6.9	7.1	6.5	6.6	6.2	6.2	5.6	5.6	5.5	85
90						7	7.1	6.8	6.8	6.7	6.8	6.3	6.4	6.1	6.2	5.7	5.8	5.3	5.4	4.8	4.8	4.7	90
95							6.4	6	6.1	6	6	5.6	5.7	5.4	5.5	5	5.1	4.6	4.6	4.1	4.1	4	95
100								5.4	5.4	5.3	5.4	5	5.1	4.7	4.9	4.4	4.4	4	4	3.4	3.4	3.3	100
105									4.9	4.7	4.8	4.4	4.5	4.2	4.3	3.8	3.9	3.4	3.5	2.8	2.8	2.7	105
110									4.4	4.3	4.3	3.9	4	3.7	3.8	3.3	3.4	2.9	3	2.2	2.3	2.1	110
115										3.8	3.9	3.4	3.5	3.2	3.3	2.8	2.9	2.5	2.5				115
120											3.5	3	3.1	2.8	2.9	2.4	2.5	2	2				120
125												2.6	2.7	2.3	2.5	1.9	2.1						125
130													2.3	1.9	2.1								130

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Lifting capacities

Forces de levage

T



	37 ft	50 ft	62 ft	74 ft	86 ft	98 ft	103 ft	111 ft	117 ft	123 ft	129 ft	135 ft	142 ft	147 ft	156 ft	160 ft	168 ft	172 ft	182 ft	184 ft	195 ft	197 ft	
10	130.4	130.4	130.2	105.9																			10
11	125.7	125.8	125.3	105.9	80.6																		11
12	118.3	118.4	117.7	105.6	80.6																		12
13	110.7	110.9	110.1	102.4	80.6																		13
14	103.3	103.5	102.3	93.2	80.2	67.3																	14
15	95.7	96.6	92.7	84.2	77.1	66.9	27.7																15
16	88.7	89.7	83.8	77.9	72.4	64.5	27.7	54.2															16
17	81.9	82.6	77.8	72.4	66.8	63.8	27.7	53.8															17
18	76	76.4	72.1	66.8	62.8	59.5	27.6	52.7	24.6														18
19	70.8	70.4	66.6	63.1	59.7	55.4	27.1	50.4	24.2	42.5													19
20	65.6	65.4	62.9	59.6	55.8	51.9	26.6	47.6	23.6	42.4													20
22	56.1	56.9	55	52.2	48.9	45.1	25.4	41.7	22.5	39	21	33.6											22
24	47.9	49.6	48.1	45.6	42.7	39.9	24.2	37.8	21.5	35.6	20.3	32.1	18.6	24.1									24
26	41.3	43.1	42.2	40.3	37.8	36.1	23.1	34.7	20.5	31.9	19.6	29.1	18.2	25.2	14								26
28	35.9	37.9	37.3	35.8	33.8	33.4	22	31.2	19.6	28.5	18.9	25.9	17.7	23.4	14	20.3							28
30	30.7	33.6	33.3	32.1	31.1	30.2	21.1	28	18.7	25.7	18.2	23.9	17.1	22.5	14	19.9	12.7	13.9					30
32		29.6	30	28.9	28.9	27.3	20.2	25.1	17.9	23.1	17.5	22.5	16.6	20.4	13.9	18.4	12.6	16.1	10.9	11.7			32
34		26	26.9	26.3	26	24.6	19.4	22.7	17.2	22.1	16.8	20.5	16.1	18.9	13.9	17.4	12.5	15.5	10.8	11.7	9.3		34
36		23	24.2	24.5	23.6	22.3	18.7	21	16.4	20.4	16.2	18.7	15.6	17.7	13.6	16.3	12.4	14.5	10.8	11.6	9.3	9.1	36
38		20.1	21.7	22.3	21.5	20.4	17.9	19.9	15.8	18.6	15.6	17.6	15.1	16.4	13.3	15.6	12.2	13.4	10.7	11.5	9.3	9.1	38
40		17.6	19.2	20.3	19.7	18.6	17.3	18.4	15.1	17.1	15.1	16.5	14.6	15.7	13	14.3	12.1	12.8	10.6	11.4	9.3	9.1	40
45			14.3	15.6	15.7	16	15.7	15.1	13.7	14.6	13.8	13.7	13.5	12.8	12.2	11.9	11.5	10.9	10.2	9.8	9.1	8.9	45
50			10.9	12.1	12.4	12.7	12.9	12.4	12.5	12.1	12.1	11.3	11.2	10.6	10.6	9.7	9.7	8.8	8.7	7.8	7.6	7.5	50
55			8.6	9.5	9.7	10.1	10.2	9.8	10	9.7	9.9	9.2	9.3	8.7	8.8	8	7.9	7.1	7.1	6.2	6.1	5.9	55
60				7.8	8	8.3	8.4	8.1	8.2	8	8.1	7.6	7.7	7.2	7.3	6.5	6.5	5.8	5.7	4.8	4.8	4.6	60
65				6.5	6.7	7	7.1	6.8	6.9	6.7	6.8	6.3	6.4	6	6.1	5.3	5.3	4.6	4.5	3.7	3.7	3.6	65
70					5.6	5.9	6	5.7	5.8	5.6	5.7	5.2	5.3	4.9	5	4.3	4.3	3.6	3.6	2.8	2.7	2.6	70
75					4.7	5	5.1	4.8	4.9	4.7	4.8	4.3	4.4	4	4.1	3.4	3.4	2.8	2.7				75
80						4.2	4.3	4	4.1	3.9	4	3.6	3.7	3.2	3.3	2.6	2.7	1.9	1.9				80
85						3.6	3.7	3.4	3.5	3.3	3.4	2.9	3	2.5	2.7	1.8	1.9						85
90						3	3.1	2.8	2.9	2.7	2.8	2.3	2.4	1.8	2								90
95							2.5	2.2	2.3	2.2	2.3		1.8										95
100									1.8		1.8												100

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Remarks

- 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.
- 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.
- Lifting capacities are given in kips.
- The weight of the hook blocks and hooks must be deducted from the lifting capacities.
- Working radii are measured from the slewing centre.
- The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
- Lifting capacities above 130,400 lbs/148,600 lbs only with additional pulley block/special equipment.
- 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.

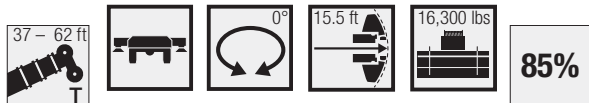
Remarques

- 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.
- 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.
- Les forces de levage sont données en kips.
- Les poids des moufles et crochets doit être soustrait des charges indiquées.
- Les portées sont calculées à partir de l'axe de rotation.
- Les forces indiquées pour la flèche télescopique s'entendent fléchette dépliée/déposée.
- Forces de levage plus de 130,400 lbs/148,600 lbs seulement avec moufle additionnel/équipement supplémentaire.
- 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.

Lifting capacities

Forces de levage

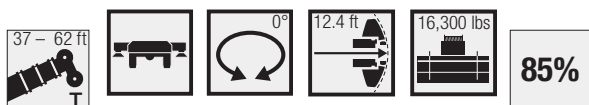
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	37 ft	50 ft	62 ft	
10	35.5	35.1	32.3	10
11	31.5	32.3	30.4	11
12	28.2	29.9	28.3	12
13	25.3	27.6	26.4	13
14	22.8	25.2	24.7	14
15	20.6	22.9	23.2	15
16	18.7	21.1	21.8	16
17	16.9	19.3	20.4	17
18	15.4	17.7	19.1	18
19	14	16.3	17.7	19
20	12.8	15.1	16.4	20
22	10.6	12.9	14.1	22
24	8.8	11	12.3	24
26	7.2	9.4	10.7	26
28	5.8	8	9.3	28
30	4.5	6.8	8.1	30
32		5.8	7	32
34		4.8	6.1	34
36		3.7	5.3	36
38		2.7	4.5	38
40		2	3.6	40
45			1.8	45

0° = over rear · en arrière

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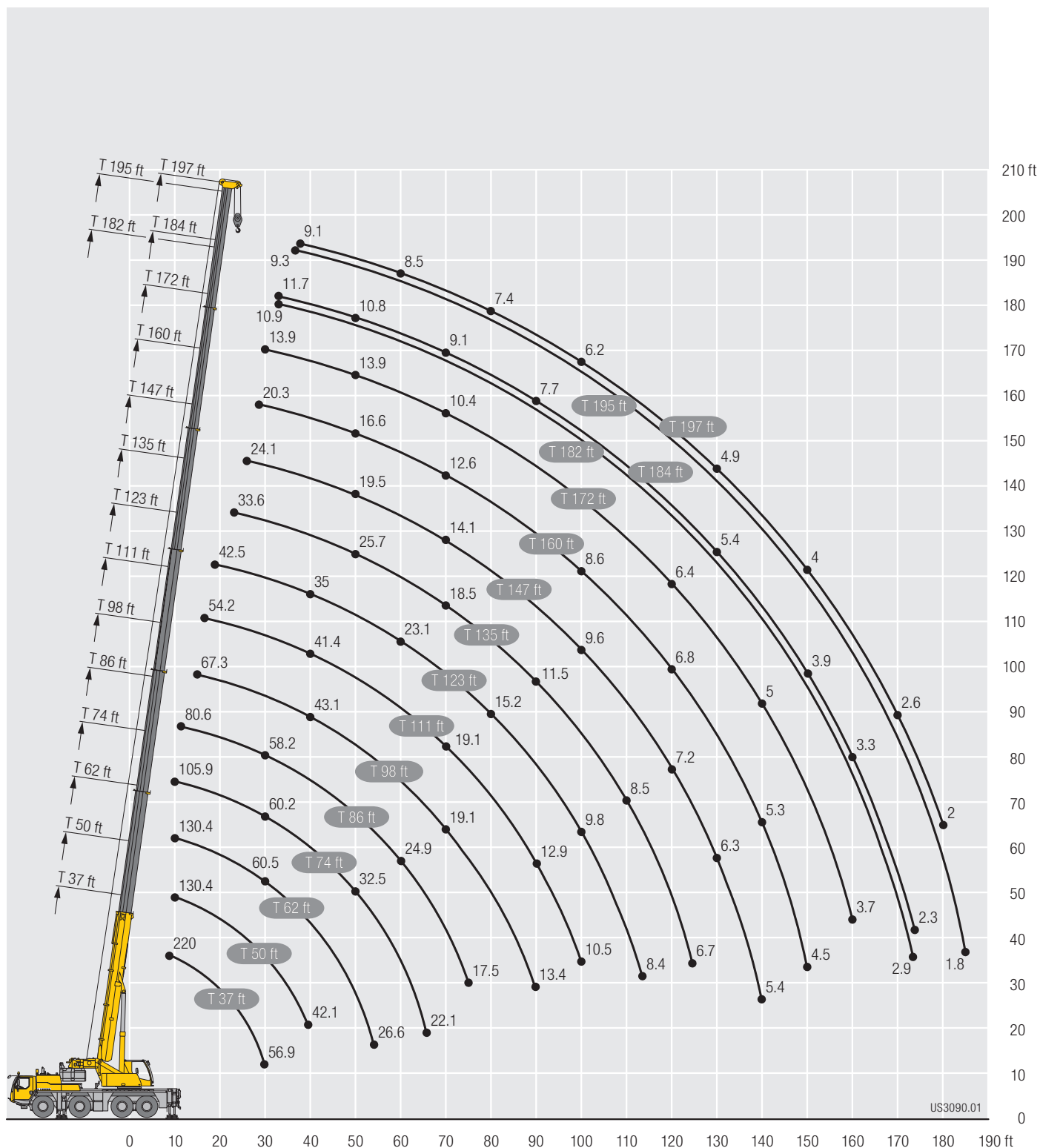
	37 ft	50 ft	62 ft	
10	32.3	32.8	30.7	10
11	28.7	30.2	28.4	11
12	25.5	27.8	26.4	12
13	22.8	25.2	24.6	13
14	20.5	22.9	23	14
15	18.5	20.8	21.5	15
16	16.6	19	20.1	16
17	15	17.4	18.7	17
18	13.6	15.9	17.2	18
19	12.3	14.6	15.9	19
20	11.1	13.4	14.7	20
22	9.1	11.4	12.6	22
24	7.4	9.6	10.9	24
26	5.8	8.1	9.4	26
28	4.1	6.8	8.1	28
30	2.8	5.7	6.9	30
32		4.5	6	32
34		3.3	5.1	34
36		2.4	4.1	36
38			3.2	38
40			2.3	40

0° = over rear · en arrière

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Lifting heights Hauteurs de levage

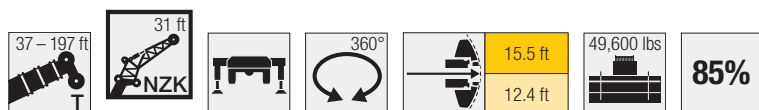
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Lifting capacities

Forces de levage

TNZK



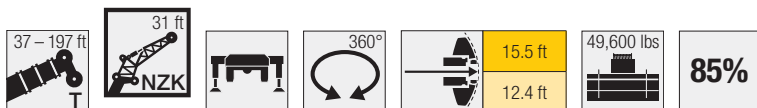
	37 ft 31 ft			50 ft 31 ft			62 ft 31 ft			74 ft 31 ft			86 ft 31 ft			98 ft 31 ft			111 ft 31 ft			123 ft 31 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
12	27.7			27.7			27.7			27.7															12
13	27.7			27.7			27.7			27.7															13
14	27.7	23.1		27.7			27.7			27.7			26.3												14
15	27.7	22.6		27.7			27.7			27.7			26.3			24.6									15
16	27.7	22.1		27.7			27.7			27.7			26.3			24.7									16
17	27.7	21.6		27.7			27.7			27.6			26.3			24.7									17
18	27.7	21.1		27.7	21.1		27.7			27.5			26.2			24.8			22.5						18
19	27.7	20.7		27.7	20.7		27.7	20.8		27.2			26			24.8			22.6						19
20	27.5	20.1		27.7	20.3		27.7	20.4		27			25.9			24.7			22.6						20
22	26.3	18.8	12.8	27.4	19.5		27.3	19.8		26.5	19.9		25.5			24.5			22.7			19.9			22
24	24.2	17.7	12.3	26.3	18.5	12.4	26.6	19.2		26	19.4		25.1	19.3		24.2			22.6			19.9			24
26	22.2	16.7	11.8	25	17.6	12	25.8	18.4		25.4	18.9		24.7	18.9		23.9			22.4			19.9			26
28	20.5	15.8	11.4	23.5	16.8	11.7	24.8	17.6	11.9	24.9	18.2	12.1	24.3	18.5		23.6	18.5		22.2	18.1		19.9			28
30	19	15	11	21.9	16	11.3	23.8	16.9	11.6	24.2	17.5	11.8	23.8	18	11.9	23.2	18.1		21.9	17.9		19.8			30
32	17.4	14.3	10.6	20.3	15.3	11	22.8	16.2	11.3	23.5	16.9	11.5	23.3	17.4	11.7	22.8	17.7		21.6	17.5		19.6	16.8		32
34	16	13.5	10.3	18.9	14.7	10.7	21.6	15.6	11	22.7	16.3	11.2	22.8	16.9	11.4	22.3	17.3	11.6	21.3	17.2		19.3	16.6		34
36	14.9	13	10	17.8	14.1	10.4	20.3	15	10.8	21.9	15.7	11	22.2	16.3	11.2	21.9	16.8	11.3	20.9	16.9	11.4	19.1	16.3		36
38	13.9	12.4	9.8	16.7	13.5	10.2	19.1	14.5	10.5	21	15.2	10.8	21.6	15.8	11	21.5	16.3	11.1	20.6	16.6	11.3	18.9	16.1	11.2	38
40	12.9	11.9	9.5	15.6	13	9.9	18	14	10.3	20	14.7	10.6	21	15.3	10.8	21	15.9	10.9	20.3	16.2	11.1	18.7	15.8	11.1	40
45	11.1	10.8	9.1	13.5	11.9	9.4	15.8	12.9	9.8	17.7	13.6	10.1	19.3	14.3	10.3	19.9	14.8	10.5	19.5	15.2	10.6	18.1	15.2	10.7	45
50	9.7	9.9	8.8	11.8	10.9	9.1	13.8	11.9	9.4	15.8	12.7	9.7	17.3	13.4	9.9	18.6	13.9	10.1	18.7	14.3	10.3	17.5	14.5	10.3	50
55	8.6	9.2	8.7	10.4	10.2	8.9	12.3	11.1	9.1	14.1	11.9	9.3	15.6	12.6	9.6	17	13.1	9.8	17.8	13.5	9.9	17	13.7	10	55
60	7.7	8.9		9.4	9.6	8.7	11.1	10.4	8.9	12.7	11.2	9.1	14.2	11.8	9.3	15.4	12.4	9.5	16.5	12.9	9.6	16.4	13	9.7	60
65				8.5	9.2	8.7	10	9.8	8.7	11.5	10.6	8.9	12.9	11.2	9.1	14.2	11.8	9.3	15.2	12.2	9.4	15.6	12.4	9.5	65
70				7.9	8.9		9.2	9.4	8.7	10.6	10	8.8	11.9	10.7	8.9	13.1	11.2	9.1	14.1	11.7	9.2	14.6	11.9	9.3	70
75							8.5	9.1	8.7	9.7	9.6	8.7	10.9	10.2	8.8	12.1	10.7	8.9	13.1	11.2	9	13.6	11.4	9.1	75
80							8	8.9		9	9.3	8.7	10.1	9.8	8.7	11.2	10.3	8.8	12.2	10.7	8.9	12.8	11	9	80
85							7.5	8.9		8.5	9	8.7	9.5	9.4	8.7	10.4	9.9	8.7	11.4	10.3	8.8	12	10.6	8.9	85
90										8	8.9	4.6	8.9	9.2	8.7	9.8	9.6	8.7	10.7	9.9	8.7	11.1	10.2	8.8	90
95										7.6	8.9		8.4	9	8.7	9.2	9.3	8.6	10	9.6	8.7	10.3	9.9	8.7	95
100													8	8.9	5	8.8	9.1	8.6	9.5	9.4	8.6	9.3	9.5	8.6	100
105													7.7	8.8		8.4	8.9	8.6	8.8	9.1	8.6	8.5	8.9	8.6	105
110													7.4			8	8.8	5.5	8.1	8.4	8.5	7.8	8.1	8.3	110
115																7.7	8.2		7.4	7.7	7.7	7.5	7.4	7.6	115
120																7.4	7.5		6.8	7	5.9	7.1	7.1	7.1	120
125																			6.3	6.4		6.5	6.7	6.8	125
130																			5.8	5.9		6	6.2	6	130
135																			5			5.5	5.7		135
140																						5.1	5.2		140
145																						4.7	4.8		145

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Lifting capacities

Forces de levage

TNZK



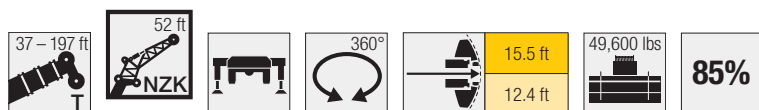
	135 ft 31 ft			147 ft 31 ft			160 ft 31 ft			170 ft 31 ft			172 ft 31 ft			182 ft 31 ft			184 ft 31 ft			195 ft 31 ft			197 ft 31 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
24	16.9																											24
26	17																											26
28	17			12.9																								28
30	17			13			10.2																					30
32	17			13			10.3																					32
34	16.9	11.3		13.1			10.3		7.1		8.3																	34
36	16.7	15.2		13.1			10.4		7.1		8.3																	36
38	16.6	15.1		13.1	12.8		10.4		7.1		8.4			6.4		6.8												38
40	16.5	14.9		13.1	12.7		10.4		7.1		8.4			6.4		6.9			5.7									40
45	16.1	14.4	10.6	13.1	12.5		10.4	10.5	7.1		8.5	8.4		6.4		6.9			5.7			5.6						45
50	15.7	13.9	10.3	12.8	12.3	11.7	10.2	10.3	7.9	7	6.9		8.4	8.3		6.4	6.2		6.9		6.7	5.7			5.6			50
55	15.3	13.4	10	12.4	12.1	11.4	10	9.9	9.9	6.8	6.7	6.6	8.2	8.2	8.2	6.4	6.2		6.8		6.7	5.7	5.7		5.6	5.5		55
60	14.6	12.9	9.7	11.8	11.6	11.1	9.6	9.6	9.5	6.6	6.5	6.4	8	8	8	6.3	6.2	6.2	6.7	6.6	6.7	5.7	5.6		5.5	5.5		60
65	13.6	12.4	9.5	11.2	10.9	10.8	9.2	9.1	9.1	6.4	6.2	6.2	7.8	7.7	7.7	6.1	6	6	6.6	6.4	6.5	5.6	5.6	5.7	5.5	5.5	5.6	65
70	12.6	11.9	9.3	10.5	10.3	10.2	8.8	8.7	8.7	6.1	6	5.9	7.6	7.5	7.4	5.9	5.8	5.8	6.4	6.2	6.3	5.5	5.5	5.6	5.4	5.4	5.5	70
75	11.7	11.3	9.1	9.9	9.7	9.7	8.4	8.3	8.4	5.9	5.8	5.7	7.3	7.2	7.2	5.8	5.6	5.6	6.2	6.1	6.1	5.4	5.4	5.4	5.3	5.3	5.3	75
80	10.9	10.7	9	9.3	9.1	9.2	8	8	8	5.7	5.5	5.5	7	6.9	6.9	5.6	5.4	5.4	6	5.9	5.9	5.3	5.2	5.2	5.2	5.2	5.2	80
85	10.1	10.1	8.9	8.8	8.7	8.8	7.6	7.6	7.7	5.4	5.3	5.3	6.7	6.7	6.6	5.3	5.2	5.2	5.8	5.7	5.7	5.1	5.1	5.1	5.1	5	5	85
90	9.5	9.5	8.8	8.3	8.3	8.4	7.3	7.3	7.3	5.2	5.1	5.1	6.4	6.4	6.4	5.1	5.1	5	5.6	5.5	5.5	4.9	4.9	4.9	4.9	4.9	4.9	90
95	9	8.9	8.7	7.9	7.9	8	6.9	6.9	7	4.9	4.9	4.9	6.1	6.1	6.1	4.9	4.9	4.9	5.4	5.3	5.4	4.8	4.8	4.8	4.7	4.7	4.7	95
100	8.6	8.4	8.5	7.4	7.5	7.6	6.6	6.6	6.7	4.7	4.7	4.8	5.8	5.9	5.9	4.7	4.7	4.7	5.2	5.2	5.2	4.6	4.6	4.6	4.5	4.5	4.6	100
105	8.3	8	8.1	7	7.1	7.2	6.3	6.3	6.4	4.4	4.5	4.5	5.6	5.6	5.7	4.5	4.5	4.5	5	5	5	4.4	4.4	4.5	4.3	4.4	4.4	105
110	7.7	7.7	7.6	6.6	6.7	6.8	6	6	6.1	4.2	4.3	4.3	5.3	5.4	5.4	4.2	4.3	4.4	4.8	4.8	4.8	4.2	4.2	4.3	4.2	4.2	4.3	110
115	7.1	7.4	7.4	6.3	6.4	6.5	5.7	5.7	5.8	4	4.1	4.1	5.1	5.1	5.2	4	4.1	4.2	4.6	4.7	4.6	4	4.1	4.1	4	4	4.1	115
120	6.5	6.8	6.9	5.9	6	6.1	5.4	5.5	5.5	3.7	3.8	3.9	4.9	4.9	5	3.8	3.9	4	4.4	4.5	4.4	3.8	3.9	3.9	3.8	3.9	3.9	120
125	5.9	6.2	6.3	5.4	5.7	5.8	5.1	5.2	5.2	3.5	3.6	3.7	4.6	4.7	4.8	3.7	3.7	3.8	4.2	4.3	4.2	3.6	3.7	3.8	3.6	3.7	3.8	125
130	5.4	5.6	5.8	4.9	5.2	5.3	4.8	4.9	5	3.3	3.4	3.5	4.4	4.5	4.5	3.5	3.5	3.6	4	4.1	4.1	3.5	3.5	3.6	3.5	3.5	3.6	130
135	4.9	5.1	5.2	4.8	4.7	4.8	4.5	4.6	4.7	3.2	3.2	3.3	4.2	4.3	4.3	3.3	3.4	3.4	3.8	4	3.9	3.3	3.4	3.4	3.3	3.4	3.4	135
140	4.5	4.7	4.7	4.6	4.5	4.6	4.1	4.3	4.5	3	3.1	3.1	4	4.1	4.1	3.1	3.2	3.3	3.7	3.8	3.7	3.2	3.2	3.3	3.2	3.2	3.3	140
145	4.3	4.3		4.3	4.4	4.5	4	3.9	4	2.8	2.9	2.9	3.8	3.9	3.9	3	3	3.1	3.5	3.6	3.6	3	3.1	3.1	3	3.1	3.1	145
150	4.2	4.2		3.9	4.1	4.1	3.8	3.8	3.9	2.6	2.7	2.7	3.6	3.6	3.7	2.8	2.9	2.9	3.4	3.5	3.4	2.9	2.9	3	2.9	2.9	3	150
155	4.1	4.2		3.6	3.7	3.7	3.6	3.7	3.7	2.5	2.5	2.6	3.4	3.4	3.5	2.7	2.7	2.8	3.2	3.3	3.3	2.7	2.8	2.8	2.7	2.8	2.8	155
160				3.5	3.5		3.2	3.4	3.5	2.3	2.4	2.4	3.1	3.3	3.3	2.5	2.6	2.6	2.9	3.2	3.1	2.6	2.7	2.7	2.6	2.7	2.7	160
165				3.4	3.4		3	3.1	3.1	2.2	2.3	2.3	2.8	3	3.1	2.4	2.4	2.5	2.5	2.9	2.8	2.5	2.5	2.6	2.4	2.5	2.6	165
170				3.2	3.2		2.9	2.9		2.1	2.1	2.1	2.7	2.7	2.8	2.3	2.3	2.3	2.2	2.5	2.4	2.2	2.4	2.5	2.1	2.3	2.4	170
175							2.8	2.8		1.9	2	2	2.4	2.6	2.6	2.1	2.2	2.2	1.9	2.2	2.1	1.9	2.1	2.2	1.8	2	2.1	175
180							2.5	2.5		1.8	1.9		2.1	2.3		2	2.1	2.1	1.6	1.8	1.7	1.6	1.8	1.9	1.5	1.7	1.8	180
185										1.7	1.7		1.8	2		1.8	1.9	2		1.5	1.4		1.5	1.6		1.4	1.5	185
190										1.7	1.7		1.6	1.7		1.6	1.7											190
195													1.3				1.4											195

t_271_002_01801_00_000_t_271_002_01841_00_000

Lifting capacities

Forces de levage

TNZK



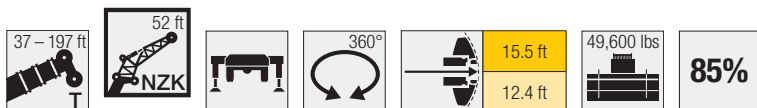
	37 ft 52 ft			50 ft 52 ft			62 ft 52 ft			74 ft 52 ft			86 ft 52 ft			98 ft 52 ft			111 ft 52 ft			123 ft 52 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
12	13.6			12.8			12.2																		12
13	13.4			12.7			12.2																		13
14	13.2			12.6			12.2			11.7															14
15	13			12.4			12.1			11.7															15
16	12.9			12.3			12			11.7			11.2												16
17	12.7			12.2			11.9			11.6			11.3												17
18	12.5			12			11.8			11.5			11.2			10.9									18
19	12.3			11.9			11.7			11.5			11.2			10.9									19
20	12.1			11.8			11.6			11.4			11.1			10.9			10.3						20
22	11.7			11.5			11.4			11.2			11			10.8			10.4						22
24	11.2			11.2			11.1			11			10.8			10.7			10.3			9.5			24
26	10.8	8.4		10.8			10.9			10.8			10.7			10.5			10.1			9.5			26
28	10.3	8.1		10.5	8.1		10.6			10.6			10.5			10.3			10			9.4			28
30	9.9	7.8		10.1	7.9		10.3	7.9		10.3			10.3			10.2			9.9			9.4			30
32	9.5	7.6		9.8	7.7		10	7.7		10.1	7.8		10			10			9.7			9.2			32
34	9.1	7.4		9.4	7.5		9.7	7.6		9.8	7.6		9.8	7.6		9.8			9.6			9.2			34
36	8.8	7.2		9.1	7.3		9.4	7.4		9.6	7.5		9.6	7.5		9.6			9.4			9.1			36
38	8.5	7	5.9	8.9	7.1		9.2	7.2		9.4	7.3		9.4	7.3		9.4	7.4		9.3	7.4		9			38
40	8.2	6.8	5.8	8.6	7	5.8	8.9	7.1		9.2	7.2		9.3	7.2		9.3	7.3		9.2	7.3		8.9			40
45	7.5	6.4	5.6	8	6.6	5.6	8.4	6.7	5.6	8.6	6.8	5.6	8.8	6.9		8.9	7		8.9	7		8.6	6.9		45
50	6.7	6.1	5.3	7.4	6.2	5.4	7.8	6.4	5.4	8.1	6.5	5.5	8.4	6.6	5.5	8.5	6.7	5.5	8.5	6.7		8.3	6.7		50
55	6	5.8	5.1	6.8	6	5.2	7.3	6.1	5.3	7.7	6.3	5.3	8	6.4	5.4	8.1	6.5	5.4	8.2	6.5	5.4	8.1	6.5	5.4	55
60	5.5	5.5	4.9	6.2	5.7	5	6.9	5.9	5.1	7.3	6	5.2	7.6	6.1	5.2	7.8	6.2	5.3	7.9	6.3	5.3	7.8	6.3	5.3	60
65	5	5.2	4.7	5.7	5.5	4.8	6.4	5.7	4.9	6.8	5.8	5.1	7.2	5.9	5.1	7.4	6	5.2	7.6	6.1	5.2	7.5	6.1	5.2	65
70	4.6	5	4.6	5.3	5.3	4.7	5.9	5.5	4.8	6.4	5.6	4.9	6.8	5.7	5	7.1	5.9	5	7.3	5.9	5.1	7.3	5.9	5.1	70
75	4.3	4.8	4.5	4.9	5.1	4.6	5.5	5.3	4.7	6	5.5	4.8	6.5	5.6	4.9	6.8	5.7	4.9	7	5.7	5	7	5.8	5	75
80	3.9	4.6		4.5	4.9	4.5	5.1	5.1	4.6	5.6	5.3	4.7	6.1	5.4	4.8	6.5	5.5	4.8	6.7	5.6	4.9	6.8	5.6	4.9	80
85				4.2	4.7	4.5	4.8	5	4.5	5.3	5.2	4.6	5.8	5.3	4.7	6.2	5.4	4.8	6.4	5.5	4.8	6.5	5.5	4.8	85
90				4	4.6		4.5	4.8	4.5	5	5	4.6	5.4	5.2	4.6	5.9	5.2	4.7	6.2	5.3	4.7	6.3	5.4	4.8	90
95				3.8			4.2	4.7	4.5	4.7	4.9	4.5	5.2	5	4.6	5.6	5.1	4.6	5.9	5.2	4.7	6.1	5.3	4.7	95
100							4	4.6	4.2	4.5	4.8	4.5	4.9	4.9	4.5	5.3	5	4.6	5.6	5.1	4.6	5.9	5.1	4.6	100
105							3.8	4.6		4.2	4.7	4.5	4.6	4.9	4.5	5	4.9	4.5	5.4	5	4.5	5.6	5.1	4.6	105
110										4.1	4.6	4.5	4.4	4.8	4.5	4.8	4.9	4.5	5.1	4.9	4.5	5.4	5	4.5	110
115										3.9	4.6		4.2	4.7	4.5	4.6	4.8	4.5	4.9	4.9	4.5	5.2	4.9	4.5	115
120													4.1	4.6	4.5	4.4	4.7	4.5	4.7	4.8	4.5	5	4.8	4.5	120
125													3.9	4.6		4.2	4.7	4.5	4.5	4.8	4.5	4.8	4.8	4.5	125
130													3.8			4.1	4.6	4.5	4.4	4.7	4.5	4.6	4.7	4.5	130
135																3.9	4.6		4.2	4.6	4.5	4.4	4.7	4.5	135
140																3.8	4.6		4.1	4.6	4.5	4.3	4.7	4.5	140
145																	3.9	4.6		4.2	4.6	4.5			145
150																			3.8	4.6		4	4.5	4.5	150
155																			3.8			3.9	4.5		155
160																						3.8	4.2		160
165																						3.7	3.8		165

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Lifting capacities

Forces de levage

TNZK

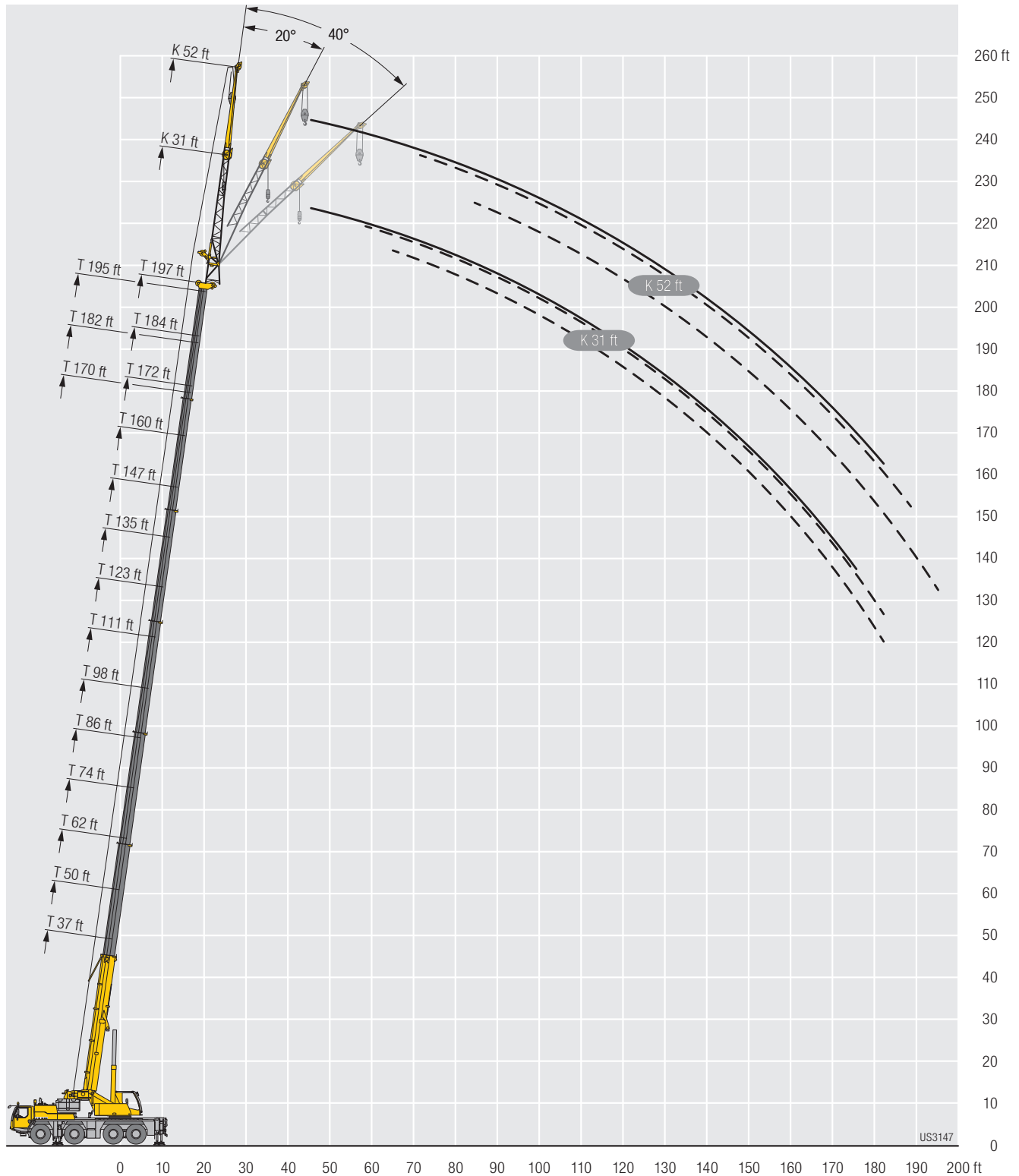


	135 ft 52 ft			147 ft 52 ft			160 ft 52 ft			170 ft 52 ft			172 ft 52 ft			182 ft 52 ft			184 ft 52 ft			195 ft 52 ft			197 ft 52 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
26	8.7																											26
28	8.7																											28
30	8.7			7.7																								30
32	8.6			7.7																								32
34	8.6			7.7			6.7																					34
36	8.5			7.7			6.7																					36
38	8.4			7.7			6.7		4.9			5.6																38
40	8.4			7.6			6.7		4.9			5.7		4.5		4.7												40
45	8.1	6.7		7.5			6.7		4.9			5.7		4.5		4.7			3.9			3.8						45
50	8	6.6		7.4	6.3		6.6		4.9			5.7		4.5		4.7			3.9			3.7						50
55	7.7	6.3		7.2	6.1		6.5	5.8		4.9		5.8		4.5		4.7			3.8			3.6						55
60	7.5	6.2	5.2	7.1	6		6.4	5.7		4.8	4.7		5.7	5.2		4.4			4.7			3.8			3.6			60
65	7.3	6	5.1	6.9	5.8	5	6.3	5.5		4.7	4.7		5.6	5.2		4.3		4.3	4.6	4.5		3.7			3.5			65
70	7.1	5.8	5	6.7	5.7	5	6.2	5.4	4.8				5.6	5.1		4.3		4.3	4.6	4.5		3.7	3.9		3.5	3.7		70
75	6.9	5.7	5	6.5	5.6	4.9	6.1	5.3	4.8	4.6	4.6	4.4	5.5	5	4.6	4.3		4.3	4.5	4.5		3.6	3.8		3.4	3.7		75
80	6.7	5.6	4.9	6.4	5.5	4.8	6	5.2	4.7	4.6	4.5	4.4	5.4	4.9	4.6	4.2	4.2	4.3	4.5	4.5	4.3	3.6	3.8		3.4	3.6		80
85	6.5	5.4	4.8	6.2	5.3	4.8	5.9	5.1	4.7	4.5	4.3	4.2	5.4	4.9	4.5	4.2	4.1	4.2	4.5	4.5	4.3	3.5	3.8	4	3.3	3.6	4	85
90	6.3	5.3	4.8	6.1	5.2	4.7	5.7	5	4.6	4.3	4.2	4.1	5.2	4.8	4.5	4.1	4	4.1	4.5	4.4	4.2	3.4	3.7	3.9	3.3	3.5	3.9	90
95	6.1	5.2	4.7	5.9	5.1	4.7	5.6	5	4.6	4.1	4.1	4	5.1	4.7	4.5	4	3.9	4	4.4	4.2	4.2	3.4	3.7	3.8	3.2	3.5	3.8	95
100	5.9	5.1	4.7	5.8	5.1	4.6	5.5	4.9	4.5	4	3.9	3.9	5	4.7	4.4	3.9	3.8	3.9	4.3	4.1	4	3.4	3.6	3.7	3.2	3.4	3.7	100
105	5.7	5	4.6	5.6	5	4.6	5.4	4.8	4.5	3.8	3.8	3.8	4.9	4.6	4.4	3.8	3.7	3.7	4.2	4	3.9	3.3	3.6	3.6	3.1	3.4	3.6	105
110	5.5	5	4.6	5.5	4.9	4.5	5.2	4.8	4.5	3.7	3.7	3.7	4.7	4.5	4.4	3.7	3.6	3.6	4	3.9	3.9	3.3	3.5	3.6	3.1	3.3	3.5	110
115	5.3	4.9	4.5	5.3	4.8	4.5	5.1	4.7	4.5	3.5	3.5	3.5	4.5	4.4	4.4	3.5	3.5	3.5	3.9	3.8	3.8	3.3	3.4	3.5	3	3.3	3.4	115
120	5.1	4.8	4.5	5.2	4.8	4.5	4.9	4.6	4.5	3.4	3.4	3.4	4.3	4.3	4.3	3.4	3.4	3.4	3.8	3.7	3.7	3.2	3.3	3.4	3	3.3	3.3	120
125	5	4.8	4.5	5	4.7	4.5	4.7	4.5	4.4	3.2	3.3	3.3	4.1	4.2	4.2	3.2	3.3	3.3	3.6	3.6	3.6	3.1	3.2	3.3	2.9	3.2	3.2	125
130	4.8	4.7	4.5	4.8	4.7	4.5	4.4	4.4	4.4	3	3.1	3.2	3.9	4	4.1	3.1	3.2	3.2	3.5	3.5	3.5	3	3.1	3.2	2.9	3.1	3.2	130
135	4.6	4.7	4.5	4.6	4.6	4.5	4.3	4.3	4.4	2.9	3	3.1	3.8	3.9	4	2.9	3.1	3.1	3.4	3.4	3.4	2.9	3	3.1	2.8	3	3.1	135
140	4.4	4.6	4.5	4.4	4.6	4.4	4	4.1	4.3	2.7	2.8	3	3.6	3.7	3.8	2.8	3	2.9	3.2	3.3	3.3	2.8	2.9	3	2.7	2.9	3	140
145	4.3	4.6	4.5	4	4.4	4.4	3.8	3.9	4.1	2.5	2.7	2.8	3.4	3.5	3.6	2.6	2.9	2.8	3.1	3.2	3.2	2.7	2.8	2.9	2.6	2.8	2.8	145
150	4.1	4.5	4.5	3.6	4	4.2	3.6	3.8	3.9	2.4	2.5	2.6	3.3	3.4	3.5	2.5	2.7	2.6	3	3.1	3.1	2.5	2.6	2.7	2.5	2.6	2.7	150
155	3.8	4.1	4.2	3.5	3.6	3.8	3.3	3.6	3.7	2.3	2.4	2.5	3.1	3.2	3.3	2.4	2.6	2.5	2.9	2.9	3	2.4	2.5	2.6	2.4	2.5	2.6	155
160	3.5	3.7	3.8	3.3	3.4	3.5	2.9	3.3	3.5	2.1	2.2	2.3	3	3.1	3.2	2.2	2.5	2.4	2.7	2.8	2.9	2.3	2.4	2.5	2.3	2.4	2.5	160
165	3.2	3.4	3.4	3.1	3.2	3.3	2.8	3	3.1	2	2.1	2.2	2.7	2.9	3	2.1	2.3	2.2	2.6	2.7	2.8	2.2	2.3	2.4	2.2	2.3	2.3	165
170	2.9	3.1		3	3	3.1	2.8	2.8	2.8	1.9	2	2	2.6	2.7	2.9	2	2.2	2.1	2.5	2.6	2.6	2.1	2.2	2.2	2.1	2.2	2.2	170
175	2.9	2.9		2.7	2.9	2.9	2.6	2.7	2.8	1.8	1.8	1.9	2.4	2.5	2.6	1.9	2.1	2	2.2	2.4	2.5	2	2	2.1	1.9	2.1	2.1	175
180	2.8			2.5	2.6		2.3	2.6	2.6	1.6	1.7	1.8	2.2	2.4	2.5	1.8	1.9	1.9	1.8	2.3	2.4	1.8	1.9	2	1.7	1.9	2	180
185				2.4	2.5		2.2	2.3	2.3	1.5	1.6	1.6	2	2.2	2.3	1.7	1.8	1.8	1.6	1.9	2.1	1.5	1.8	1.9	1.5	1.8	1.9	185
190				2.4			2.1	2.2		1.4	1.5	1.5	1.8	2	2	1.6	1.7	1.7		1.6	1.8		1.6	1.8		1.6	1.7	190
195							1.9	2.1					1.4	1.4	1.6	1.6	1.8	1.9	1.5	1.6	1.6		1.4	1.5			1.5	195
200							1.7	1.8					1.4	1.5					1.5	1.4								200

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Lifting heights Hauteurs de levage

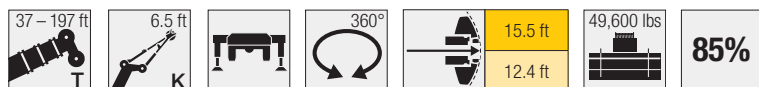
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Lifting capacities

Forces de levage

TK



	37 ft				50 ft				62 ft				64 ft				74 ft				76 ft				
	6.5 ft				6.5 ft				6.5 ft				6.5 ft				6.5 ft				6.5 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
12			54.5	43.6			54.5	43.6			54.5	43.6			40.4	38.4			54.5	43.6					12
13			54.5	43.6			54.5	43.6			54.5	43.6			39.1	37			54.5	43.6			38.4		13
14			54.5	43.6			54.5	43.6			54.5	43.6			37.6	35.7			54.5	43.6			37.3	35.2	14
15			54.5	43.6			54.5	43.6			54.5	43.6			36.3	34.5			54.5	43.6			36.2	34.3	15
16			54.5	43.2			54.5	43.6			54.5	43.6			34.9	33.3			54.5	43.6			35.1	33.4	16
17			54.5	42.6			54.5	43.6			54.5	43.6			33.8	32.2			54.5	43.6			34.1	32.5	17
18		54.5	54.5	42			54.5	43.6			54.5	43.6			32.6	31.2			54.5	43.6			33.2	31.6	18
19		54.5	54.5	41.4			54.5	43.6			54.5	43.6			31.5	30.3			54.5	43.6			32.2	30.8	19
20		54.5	54.5	40.8			54.5	43.5			54.5	43.6			30.5	29.3			54.5	43.6			31.4	30	20
22		54.5	54.5	39.7			54.5	42.6			54.5	43.6			28.6	27.6			54.5	43.6			29.8	28.5	22
24		54.5	54.5	38.7			54.5	41.7			54.5	43.6			27	26.1			54.5	43.6			28.2	27.2	24
26		54.5	54.5	37.9		54.5	54.5	40.8			54.5	43			25.4	24.7			54.5	43.6			26.7	25.9	26
28	54.5	54.5	54.5	37.4		54.5	54.5	40			54.5	42.3			24.2	23.4			54.5	43.6			25.4	24.7	28
30	54.5	54.5	54.5	37.2		54.5	54.5	39.2			54.5	41.5			22.9	22.3			54.5	43.3			24.1	23.6	30
32	54.5	54.5	54.5	37.2		54.4	54.5	38.5		54.3	54.1	40.8			21.7	21.2			54.3	42.7			23	22.5	32
34	50.9	51.3	51.5	37.2		52	52.3	37.9		51.6	52	40.1		21.5	20.7	20.3			51.7	42.1			22	21.5	34
36	44.4	47.6	47.8	36.9		48.4	48.7	37.5		48.1	48.4	39.5		20.4	19.8	19.4			48.4	41.4			21	20.6	36
38					44.8	45.1	45.4	37.2		45.6	45.1	38.8		19.5	18.8	18.5		41.2	45.8	40.8			20.1	19.8	38
40					41.8	42.2	42.4	37.2		42.6	42.8	38.3		18.6	18	17.7		42.6	42.8	40.2		19.6	19.3	18.9	40
45					35.8	36	36.1	36.2		36.4	36.7	36.8		16.7	16.2	16		36.3	36.6	36.8		17.8	17.4	17.2	45
50									31.3	31.5	31.7	31.8	15.4	15	14.7	14.6		31.5	31.7	31.8		16.1	15.8	15.7	50
55									27.4	27.6	27.7	27.7	14	13.7	13.4	13.4		28.1	27.9	27.9		14.7	14.5	14.4	55
60									24.8	24.9	24.8	24.9	12.7	12.5	12.4	12.5	24.9	25	25.1	25.2	13.7	13.5	13.3	13.3	60
65																	22	22.1	22.2	22.2	12.6	12.4	12.3	12.3	65
70																	19.6	19.7	19.7	19.7	11.7	11.6	11.5	11.6	70
75																					11	10.9	10.9	11.1	75

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	86 ft 6.5 ft				89 ft 6.5 ft				91 ft 6.5 ft				98 ft 6.5 ft				103 ft 6.5 ft				111 ft 6.5 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
13			54.5																						13
14			54.5																						14
15			54.5	43.6			27.2																		15
16			54.5	43.6			26.6				25.8				54.5										16
17			54.5	43.6			25.8	24.8			25.1	24			54.5										17
18			54.5	43.6			25	24.1			24.4	23.5			54.5	43.6			23.5						18
19			54.5	43.6			24.3	23.4			23.7	22.9			54.5	43.6			23.1			45.6			19
20			54.5	43.6			23.6	22.8			23	22.2			54.5	43.6			22.6	21.8			46.8		20
22			54.5	43.6			22.3	21.5			21.8	21.1			54.5	43.6			21.5	20.8			46	43.6	22
24			54.5	43.6			21.1	20.4			20.6	20			54	43.6			20.5	19.9			45.1	43.6	24
26			54.5	43.6			20	19.4			19.5	19			53	43.6			19.6	19			44.2	43.6	26
28			54.5	43.6			18.9	18.4			18.6	18.1			51.7	43.6			18.8	18.2			43.3	43.5	28
30			54.3	43.6			18	17.6			17.7	17.2			50.4	43.6			18	17.5			42.4	42.9	30
32			53.8	43.6			17.2	16.8			16.8	16.4			49	43.6			17.2	16.8			41.5	42	32
34			51.6	43.5			16.4	16			16.1	15.7			47.8	43.6			16.5	16.1			40.6	41.1	34
36			48.8	43			15.6	15.3			15.3	15			46.5	43.6			15.9	15.5			39.8	40.2	36
38			45.4	42.4			15	14.7			14.7	14.4			44.4	43.6			15.3	14.9			38.9	39.3	38
40			42.5	41.5			14.3	14.1			14.1	13.8			41.8	41.6			14.7	14.4			38.1	38.5	40
45			36.3	36.4			12.8	12.7			12.6	12.4			36.9	36.8			13.4	13.1			36	35.9	45
50		32.2	32.4	32.5		11.8	11.7	11.5		11.6	11.4	11.3			32	32.2			12.2	12.1			31.3	31.5	50
55		28.3	28.4	28.5		10.7	10.6	10.5		10.5	10.4	10.2		27.4	28	28.1			11.2	11.1			27.3	27.5	55
60		24.8	25	25.1		9.8	9.7	9.7		9.6	9.5	9.5		24.4	24.5	24.6		10.4	10.4	10.3		19.4	23.8	23.9	60
65		21.9	22	22.1		9.1	9	9		8.9	8.8	8.8		21.5	21.5	21.6		9.6	9.6	9.5		20.8	20.8	21	65
70	19.3	19.4	19.5	19.6	8.6	8.5	8.4	8.4		8.3	8.3	8.2		19	19	19.1		9	9	9		18.3	18.3	18.5	70
75	17.3	17.3	17.4	17.4	8.1	7.9	7.9	7.9	7.9	7.9	7.8	7.8		16.9	16.9	17		8.5	8.5	8.5		16.2	16.2	16.3	75
80	15.5	15.5	15.5	15.5	7.6	7.5	7.5	7.5	7.5	7.4	7.3	7.3	14.9	15.1	15.1	15.1		8	8.1	8.1		14.4	14.4	14.5	80
85			14		7.2	7.1	7.2	7.2	7	6.9	7	7	13.4	13.5	13.5	13.5	7.7	7.6	7.7	7.7		13.7	13.6	13.5	85
90										6.7	6.8		12	12.1	12.1	12.1	7.4	7.3	7.3	7.4	12.6	12.6	12.7	12.7	90
95													11.5	11.6	11.6	11.8	7.1	7	7.1	7.1	11.3	11.4	11.4	11.4	95
100																	6.8	6.7	6.9	6.9	10.2	10.2	10.2	10.2	100
105																					9.3	9.3	9.3	9.3	105
110																					7.6	8.6	8.6		110

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Lifting capacities

Forces de levage

TK



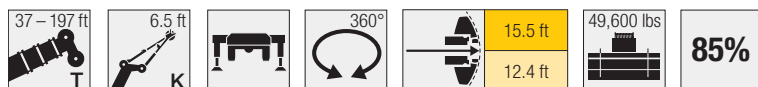
	115 ft				117 ft				123 ft				129 ft				135 ft				142 ft					
	6.5 ft				6.5 ft				6.5 ft				6.5 ft				6.5 ft				6.5 ft					
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°		
22			19.9				19.3				37.7														22	
24			19	18.8			18.5	18.2			37.5	30.6			17.7				21.9						24	
26			18.2	17.9			17.7	17.4			37.3	37.7			17.2	16.9			29.8	20.6					26	
28			17.4	17.1			16.9	16.7			37.1	37.5			16.6	16.3			29.5	29.6			15.4	13.9	28	
30			16.6	16.4			16.2	16			36.8	37.2			16	15.8			29	29.1			15	13.7	30	
32			15.9	15.7			15.5	15.3			36.3	36.8			15.4	15.2			28.3	28.4			14.5	13.3	32	
34			15.2	15.1			14.8	14.7			35.7	36			14.8	14.6			27.6	27.5			14	13	34	
36			14.6	14.4			14.2	14.1			34.9	34.8			14.2	14.1			26.7	26.6			13.6	12.6	36	
38			14	13.8			13.6	13.5			33.7	33.6			13.7	13.6			25.8	25.7			13.2	12.2	38	
40			13.4	13.3			13.1	13			32.5	32.5			13.2	13.1			24.9	24.8			12.8	11.9	40	
45			12.1	12			11.8	11.7			29.8	29.8			12.1	12			22.7	22.7			11.8	11	45	
50			11	11			10.8	10.7			27.4	27.4			11.1	11			21.1	20.8			10.9	10.3	50	
55			10.1	10			9.9	9.8			25.1	25.1			10.2	10.1			19.9	19.5			10.1	9.6	55	
60			9.2	9.2			9	9			22.9	23.1			9.5	9.4			18.9	18.5			9.5	9	60	
65			8.5	8.6	8.6		8.3	8.4	8.4			20.2	20.4			8.9	8.8			17.9	17.6			8.9	8.6	65
70			8	8	8		7.8	7.9	7.9		17.8	17.9	17.9			8.3	8.3			17	16.8			8.4	8.1	70
75			7.5	7.5	7.5		7.3	7.4	7.4		16.2	16.1	16.2		7.7	7.9	7.8		13.5	16	15.9			7.9	7.7	75
80			7	7.1	7		6.9	6.9	6.9		15	15	15		7.3	7.4	7.4		14.3	14.4	14.5		7.2	7.4	7.3	80
85			6.6	6.6	6.6		6.5	6.5	6.5		13.4	13.4	13.5		6.9	7	7		12.7	12.8	12.9		6.9	7	6.9	85
90			6.2	6.3	6.3		6.1	6.2	6.2		11.9	12	12		6.6	6.7	6.7		11.2	11.4	11.4		6.5	6.6	6.5	90
95	5.9	5.9	5.9	6	5.8	5.8	5.8	5.8			10.7	10.7	10.7		6.3	6.3	6.3		10	10	10.1		6.2	6.2	6.2	95
100	5.6	5.6	5.6	5.7	5.5	5.5	5.5	5.5	9.5	9.5	9.6	9.6		6	6	6			8.9	9	9.1		5.8	5.9	5.8	100
105	5.3	5.3	5.4	5.4	5.2	5.2	5.3	5.3	8.7	8.7	8.7	8.7	5.7	5.7	5.7	5.8			8.2	8.3	8.3		5.5	5.6	5.5	105
110	5.1	5.1	5.1	5.2	5	5	5	5	8	8	8	8	5.5	5.4	5.5	5.5	8		7.9	8	8		5.3	5.3	5.3	110
115					4.8	4.8	4.9	4.9	7.4	7.3	7.5	7.5	5.2	5.2	5.3	5.3	7.5	7.6	7.6	7.6	5	5	5	5	115	
120									7.3	7.1	7.3	7.5	5	5	5.1	5.1	6.9	7	7	7	4.8	4.8	4.8	4.8	120	
125													4.9	4.9	4.9	5	6.4	6.4	6.4	6.4	4.5	4.5	4.6	4.5	125	
130																	5.9	5.9	5.9	5.9	4.3	4.3	4.4	4.3	130	
135																					4.1	4.1	4.2	4.2	135	
140																					4	4	4.1	4.1	140	

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Lifting capacities

Forces de levage

TK



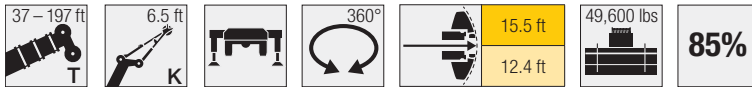
	144 ft 6.5 ft				147 ft 6.5 ft				156 ft 6.5 ft				160 ft 6.5 ft				168 ft 6.5 ft				170 ft 6.5 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
28			15				22.8																		28
30			14.7	13.4			22.6	22.6			12.6				13.4										30
32			14.3	13.1			22.3	22.3			12.4	12.3			17.8	13.7			11.1						32
34			13.8	12.8			21.9	21.9			12.2	12.1			17.6	17.7			11				10.7		34
36			13.4	12.4			21.5	21.5			11.9	11.8			17.3	17.4			10.9	10.9			10.6	10.6	36
38			13	12			21.1	21			11.6	11.5			17	17.1			10.7	10.7			10.5	10.5	38
40			12.6	11.7			20.6	20.5			11.4	11.3			16.8	16.8			10.5	10.5			10.3	10.3	40
45			11.7	10.9			19.3	19.2			10.6	10.6			16	16			10	10			9.8	9.8	45
50			10.8	10.1			17.9	17.8			10	9.9			15	15			9.5	9.5			9.4	9.3	50
55			10	9.5			16.6	16.6			9.4	9.4			14	14			9.1	9			9	9	55
60			9.4	9			15.3	15.3			8.9	8.9			13.1	13.1			8.7	8.7			8.6	8.6	60
65			8.9	8.5			14.1	14.1			8.5	8.5			12.2	12.2			8.3	8.3			8.2	8.2	65
70			8.4	8.1			13	13.1			8.1	8.1			11.5	11.4			8	7.9			7.7	7.8	70
75			7.9	7.7			12	12.1			7.8	7.8			10.7	10.7			7.6	7.6			7.3	7.3	75
80			7.5	7.3			11.1	11.1			7.4	7.4			10	10			7.2	7.2			6.9	6.9	80
85		6.9	7.1	6.9		10	10.4	10.4			7.1	7.1			9.2	9.3			6.8	6.8			6.6	6.6	85
90		6.5	6.6	6.5		9.4	9.6	9.7		6.7	6.8	6.8			8.7	8.7			6.5	6.5			6.2	6.2	90
95		6.2	6.3	6.2		9	9.2	9.1		6.4	6.4	6.4		7.6	8.2	8.2			6.1	6.1			5.9	5.9	95
100		5.9	5.9	5.9		8.7	8.8	8.8		6.1	6.1	6.1		7.3	7.7	7.7		5.7	5.8	5.8			5.6	5.6	100
105		5.6	5.6	5.5		8.4	8.4	8.4		5.9	5.8	5.9		7	7.3	7.3		5.4	5.5	5.5			5.3	5.3	105
110		5.3	5.3	5.3		7.7	7.7	7.8		5.6	5.6	5.6		6.8	6.9	6.9		5.2	5.2	5.2			5	5	110
115		5	5.1	5		7.1	7	7.1		5.3	5.3	5.3		6.5	6.7	6.7		4.9	4.9	4.9			4.7	4.7	115
120		4.8	4.8	4.8	6.4	6.4	6.4	6.5		5.1	5.1	5.1		6.3	6.5	6.5		4.6	4.6	4.7			4.5	4.5	120
125		4.5	4.6	4.6	5.9	5.9	6	6		4.9	4.9	4.9		6	6	6		4.4	4.4	4.4			4.2	4.2	125
130		4.3	4.4	4.4	5.7	5.7	5.8	5.9		4.7	4.6	4.7	5.1	5.5	5.5	5.5		4.2	4.2	4.2			4	4	130
135		4.2	4.2	4.2	5.5	5.5	5.5	5.5		4.5	4.5	4.5	4.9	5	5	5		4	4	4			3.8	3.8	135
140		4	4	4	5	5.1	5	5.1		4.3	4.3	4.3	4.7	4.7	4.8	4.7		3.8	3.8	3.8			3.6	3.6	140
145					4.6	4.7	4.7	4.6		4.1	4.2	4.2	4.5	4.5	4.6	4.5		3.6	3.6	3.6			3.4	3.4	145
150										4	4	4	4.2	4.2	4.2	4.2		3.4	3.4	3.4			3.2	3.2	150
155										3.9	4		3.8	3.9	3.9	3.9		3.2	3.2	3.3			3.1	3.1	155
160																		3.1	3.1	3.1			2.9	2.9	160
165																		3	3	3			2.8	2.8	165

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Lifting capacities

Forces de levage

TK

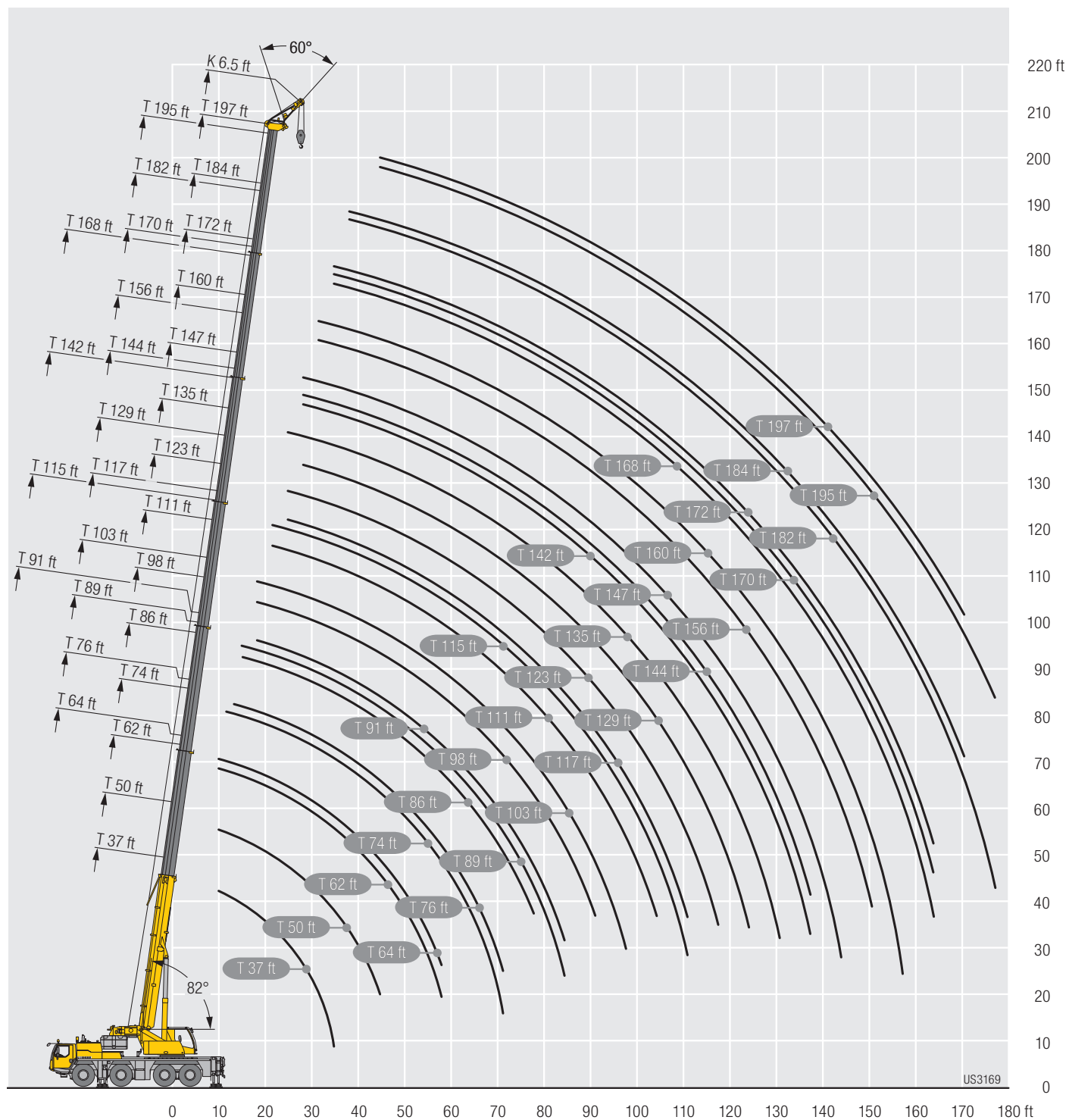


	172 ft 6.5 ft				182 ft 6.5 ft				184 ft 6.5 ft				195 ft 6.5 ft				197 ft 6.5 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
34			12.9																		34
36			12.8	12.9			9.4				10.2										36
38			12.7	12.7			9.4	9.5			10.1	10.2			8.3						38
40			12.5	12.6			9.4	9.4			10	10.1			8.3				8.1		40
45			12.1	12.2			9.2	9.2			9.8	9.8			8.3	8.3			8	8.1	45
50			11.7	11.7			9	9			9.5	9.5			8.1	8.2			7.9	8	50
55			11.1	11.2			8.7	8.6			9.2	9.2			8	8			7.8	7.9	55
60			10.5	10.5			8.4	8.3			8.9	8.9			7.8	7.8			7.6	7.7	60
65			9.9	9.9			8	8			8.6	8.6			7.6	7.6			7.4	7.5	65
70			9.3	9.4			7.6	7.6			8.3	8.3			7.3	7.3			7.2	7.2	70
75			8.9	8.9			7.3	7.3			7.9	7.9			7	7			6.9	6.9	75
80			8.5	8.5			6.9	6.9			7.6	7.6			6.7	6.7			6.6	6.7	80
85			8.1	8.1			6.6	6.6			7.3	7.3			6.4	6.4			6.4	6.4	85
90			7.7	7.7			6.3	6.3			7	7			6.1	6.1			6.1	6.1	90
95			7.3	7.3			6	6			6.7	6.7			5.9	5.9			5.8	5.9	95
100		6.4	7	7			5.7	5.7			6.4	6.4			5.6	5.6			5.6	5.6	100
105		6.1	6.7	6.7			5.4	5.4			6.1	6.1			5.4	5.4			5.4	5.4	105
110		5.8	6.3	6.3			5.1	5.2			5.8	5.9			5.1	5.1			5.1	5.1	110
115		5.5	6	6			4.9	4.9			5.6	5.6			4.9	4.9			4.9	4.9	115
120		5.2	5.7	5.7			4.6	4.7			5.3	5.3			4.7	4.7			4.7	4.7	120
125		5	5.5	5.4			4.4	4.4			5.1	5.1			4.5	4.5			4.5	4.5	125
130		4.8	5.2	5.3			4.2	4.2			4.9	4.9			4.3	4.3			4.3	4.3	130
135		4.5	5	5			4	4			4.6	4.6			4.1	4.1			4.1	4.1	135
140		4.3	4.6	4.6			3.8	3.8			4.4	4.4			3.9	4			3.9	3.9	140
145		4.1	4.2	4.2			3.7	3.7			4	4			3.8	3.8			3.7	3.7	145
150		3.9	4	4			3.5	3.5			3.6	3.6			3.6	3.6			3.5	3.5	150
155		3.7	3.7	3.7			3.3	3.3			3.2	3.3			3.3	3.3			3.3	3.3	155
160		3.3	3.3	3.3			3.2	3.2			2.9	2.9			3	3			2.9	2.9	160
165		3	3	3			3	3			2.5	2.5			2.6	2.6			2.5	2.5	165
170		2.7	2.7	2.7			2.7	2.7			2.1	2.1			2.2	2.2			2.2	2.2	170
175							2.4	2.4			1.8	1.8			1.9	1.9			1.8	1.8	175
180							2.1	2.1													180

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Lifting heights Hauteurs de levage

TK



US3169

Equipment

Equipment

Crane carrier

Frame	Self-manufactured, torsion-resistant box-type design of high-tensile fine grained 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 330 kW (449 h.p.), max. torque 1722 lbs-ft. Exhaust emissions acc. to 97/68/EG, EPA/CARB, ECE-R.96. Fuel reservoir: 145 gallons.
Transmission	ZF 12-speed gear box with automatic control system. ZF-intarder fitted directly to the gear. Two-stage transfer case with lockable transfer differential.
Axles	Low maintenance carrier axles, all 4 axles steered. Axle 2, 3 and 4 are equipped with planetary gears, all driven axles with transverse differential locks.
Cardan shaft	All cardan shafts with 70° diagonal toothing and maintenance free.
Suspension	All axles are hydro-pneumatically suspended with automatic leveling. Suspension hydraulically lockable.
Tyres	8 tyres, size: 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. Hand brake: Spring-loaded, acting on all wheels of axles 2, 3 and 4. Additional brakes: exhaust flap brake, 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, 2 batteries of 170 Ah each.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane drive	Diesel-hydraulic with axial variable displacement pumps with automatic capacity control, 1 double gear pump, driven by the carrier Diesel engine, open regulated oil circuits with electrically controlled "load sensing", operation of 4 movements simultaneously.
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, hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	1 differential ram with safety check valves.
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	LICCON2 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 hydraulically extendable independent of one another. Rapid-cycle telescoping system Telematik. Boom length: 37 ft – 197 ft.
Counterweight	19,400 lbs basic counterweight.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Operating modes

K	Double swing-away jib 31 ft – 52 ft Adjustment 0°, 20°, 40°
K	Erection jib 6.5 ft Adjustment 0°, 20°, 40°, 60°
NZK	Hydraulically adjustable swing-away jib 31 ft – 52 ft Hydraulically adjustment 0° – 40°

Additional equipment

2nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Additional counterweight	30,200 lbs for a total counterweight of 49,600 lbs.
Tyres	8 tyres, size 525/80 R 25 (20.5 R 25).

Other items of equipment available on request.

The pictures contain also accessories and special equipment not included in the standard scope of delivery.

Equipment Equipment

Châssis porteur

Cadre	Châssis résistant à la torsion de fabrication Liebherr, en acier à grains fins très résistant.
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 330 kW (449 ch), couple max. 1722 lbs-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG, EPA/CARB, ECE-R.96. Capacité du réservoir à carburant: 145 gallons.
Boîte de vitesse	Boîte de vitesses ZF à 12 rapports, mécanisme automatisé à commande. Ralentisseur hydrodynamique ZF directement accouplé à la boîte. Boîte de transfert à 2 étages avec blocage de différentiel.
Essieux	Essieux nécessitant peu d'entretien, les 4 essieux sont directeurs. Les essieux 2, 3 et 4 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal.
Arbres articulés	Tous les flasques de croisillons avec denture en croix 70° et sans entretien.
Suspension	Tous les essieux sont à suspension hydropneumatique avec mise à niveau automatique. Suspension blocable hydrauliquement.
Pneumatiques	8 pneus de 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: par cylindres à ressorts, agissant sur les roues des essieux 2, 3 et 4. Freins auxiliaire: par clapet sur échappement, ralentisseur monté sur boîte de vitesse.
Cabine	Spacieuse cabine, traitement anticorrosion, équipement «grand confort», suspension par silentbloks, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts, 2 batteries de 170 Ah chacune.

Partie tournante

Cadre	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
Entraînement	Diesel hydraulique avec pompes à débit variable et régulation de puissance automatique, 1 pompe à engrenages double, entraînés par le moteur Diesel du porteur, circuits hydrauliques ouverts avec «load sensing», régulé électriquement. 4 mouvements simultanés praticables.
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 équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.
Mécanisme de relevage	1 vérin différentiel avec soupapes de retenu.
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	Large champ de vision, vitrage de sécurité, équipement pour un confort idéal, cabine inclinable de 20° vers l'arrière.
Dispositif de sécurité	Contrôleur de charge, «LICCON2», système test, limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.
Flèche télescopique	1 élément de base et 6 éléments télescopiques. Tous les éléments télescopiques indépendamment les uns des autres. Système de télescopage séquentiel rapide, Telematik. Longueur de flèche: 37 ft – 197 ft.
Contrepoids	Plaque de base 19,400 lbs.
Installation électrique	Technique moderne de transmission de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.

Modes de fonctionnement

K	Double fléchette pliante 31 ft – 52 ft Positionnement à 0°, 20°, 40°
K	Fléchette de montage 6.5 ft Positionnement à 0°, 20°, 40°, 60°
NZK	Fléchette pliante à positionnement hydraulique 31 ft – 52 ft Positionnement hydraulique à 0° – 40°

Equipment supplémentaire

2ème mécanisme de levage	Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec fléchette pliante lorsque le câble de levage principal rest mouflé.
Contrepoids additionnel	30,200 lbs pour un contrepoids total de 49,600 lbs.
Pneumatiques	8 pneus. Taille: 525/80 R 25 (20.5 R 25).

Autres équipements supplémentaires sur demande.

Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

Description of symbols Explication des symboles

General symbols/Symboles généraux



Outriggers
Calage



Outriggers – free on tyres
Calage – libre sur pneus



Axle
Essieu



Radius
Portée



Boom length
Longueur de la flèche



Boom position
Position de la flèche



Counterweight
Contrepoids



Tyres
Pneumatiques



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



Standard
Norme



Driving speed
Vitesse de translation



Driving speed – Onroad gear
Vitesse de translation – Vitesse de route



Max. lifting capacity
Capacité max.



Driving speed – Crawl speed
Vitesse de translation – Marche lente



Transmission
Boîte de vitesse



Gear
Vitesse



Hookblock / Capacity
Moufle à crochet / Capacité de charge



Hoist gear
Treuil de levage



Crane carrier
Châssis porteur



Crane superstructure
Partie tournante de la grue



Gradability
Aptitude à gravir les pentes

Crane specific symbols/Symboles spécifiques à la grue



Telescopic boom
Flèche télescopique



Erection jib
Fléchette de montage



Hydraulic swing away jib
Fléchette pliante hydraulique

Subject to modification / Sous réserve de modifications