

Mobile Crane/Grue mobile

LTM 1070-4.2



80 USt



164 ft



155 ft



220 ft

LIEBHERR

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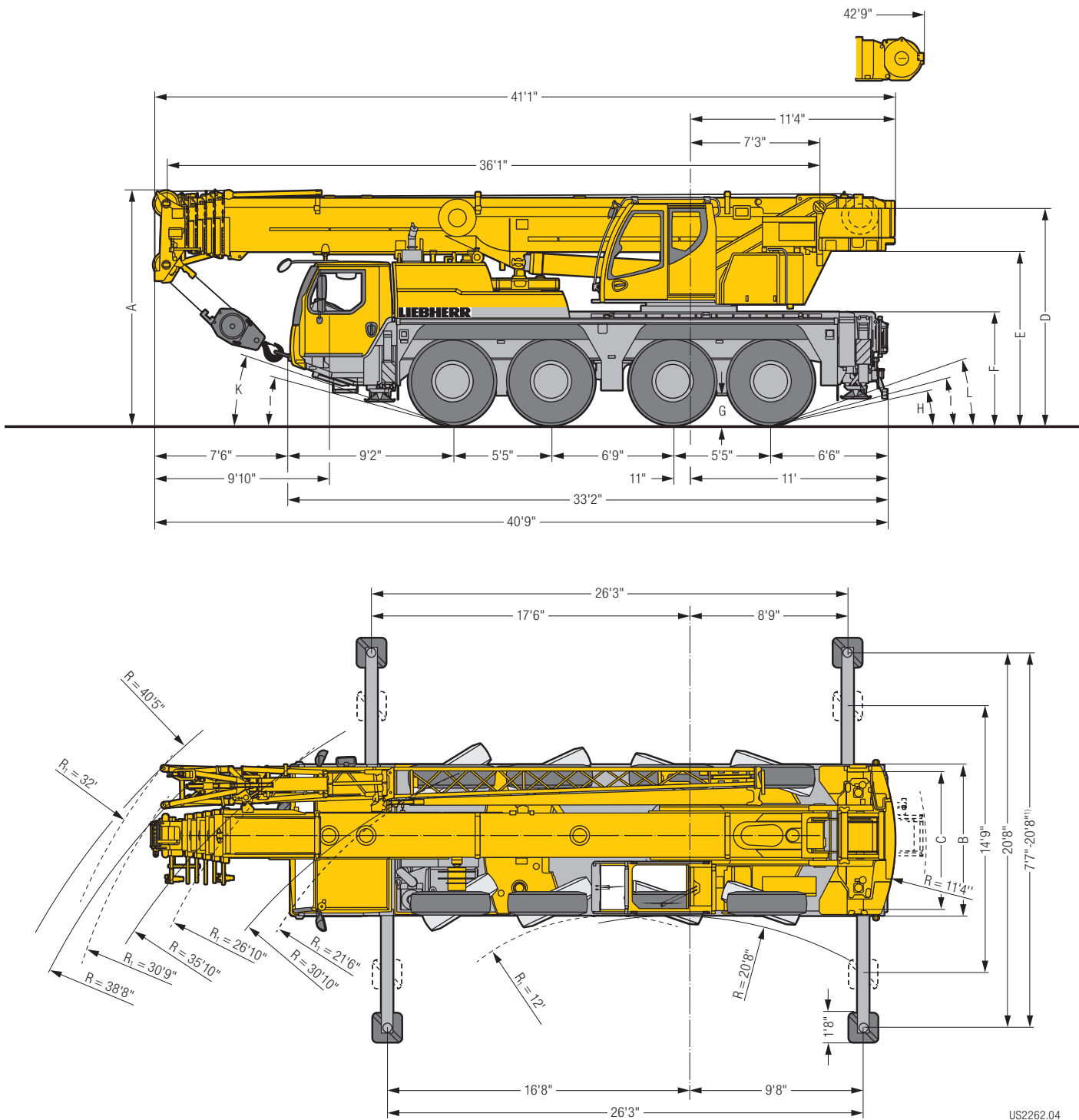
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Dimensions Encombrement



US2262.04

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

Dimensions/Encombrement

	A	A	B	C	D	E	F	G	H	I	K	L
		0'4" *										
445/95 R 25 (16.00 R 25)	13'	12'8"	8'4"	6'11"	11'11"	9'6"	6'1"	1'5"	13°	15°	21°	19°
525/80 R 25 (20.5 R 25)	13'	12'8"	8'10"	7'1"	11'11"	9'6"	6'1"	1'5"	13°	15°	21°	19°

* lowered · abaissé

LTM 1070-4.2



164 ft



31 ft – 52 ft



8.4 ft



10 ft



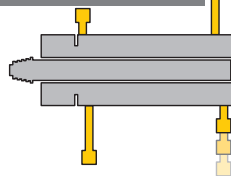
32,000 lbs

€COmode

€COdrive

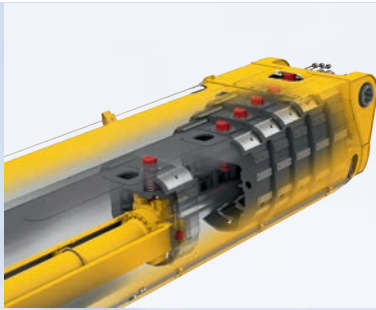
only with
seulement avec **ZF-TRAXON**

VarioBase®



Option





**Proven single cylinder telescoping system
TELEMATIK**

**Système de télescopage à un vérin confirmé
TELEMATIK**



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
154,300 lbs	7	14	1,100
128,800 lbs	5	11	1,100
84,500 lbs	3	7	990
35,300 lbs	1	3	605
12,600 lbs	—	1	240

Working speeds Vitesses



Crane carrier/Châssis porteur

	mph min.	mph max.	%
445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	0.3	53	61.1 %



12 / R2



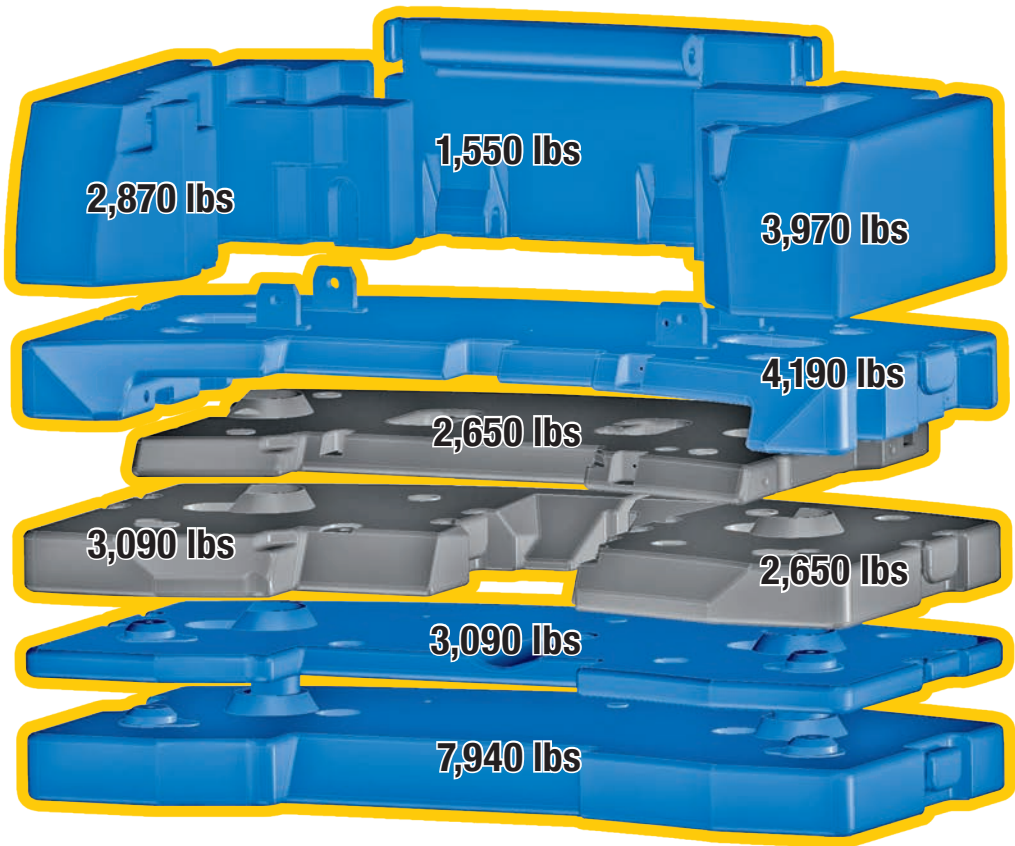
4 / R2



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" / 656 ft	12,800 lbs
	0 – 410 ft/min single line ft/min au brin simple	0.67" / 656 ft	12,800 lbs
	0 – 2 rpm		
	approx. 50 seconds to reach 83° boom angle env. 50 s jusqu'à 83°		
	approx. 310 seconds for boom extension from 36 ft – 164 ft env. 310 s pour passer de 36 ft – 164 ft		

Counterweight Contrepoids

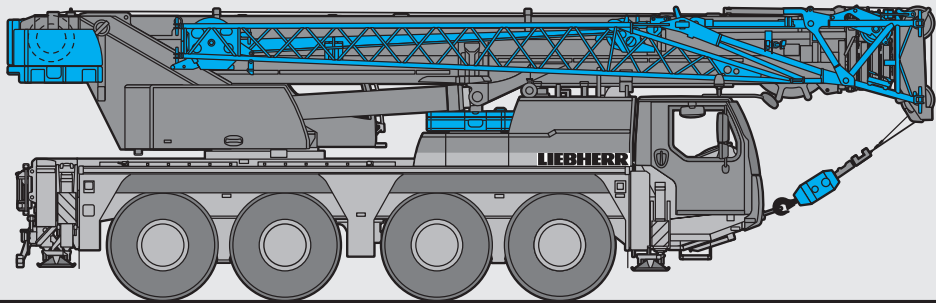


Technically transportable · Transport techniquement simplifié

Axle/Essieu

Axle Essieu	1	2	3	4	Total weight lbs Poids total lbs
lbs	26,400	26,400	26,400	26,400	105,600 ¹⁾

¹⁾ with 23,600 lbs counterweight and folding jib · avec contrepoids 23,600 lbs et flechette pliante



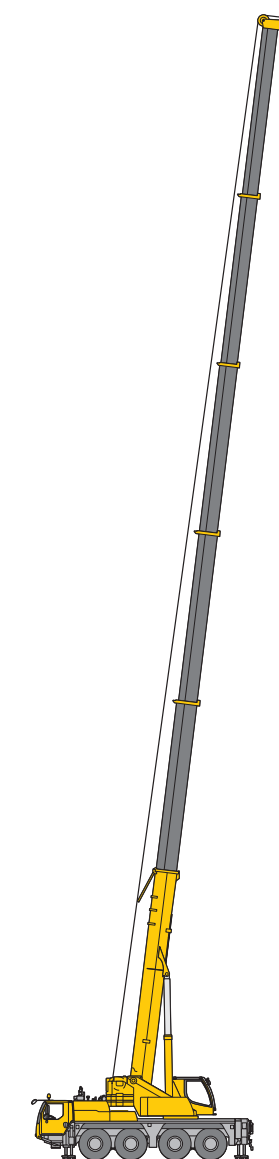
S3048.01

Boom/jib combinations Configurations de flèche

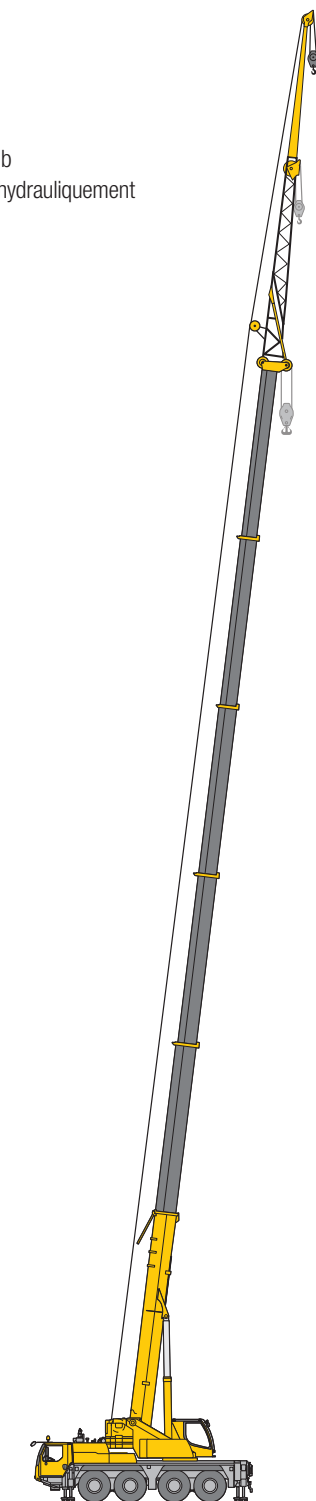
T Telescopic boom/Flèche télescopique

K Mechanical/hydraulic swing away jib
NZK Fléchette pliante mécanique/hydraulique

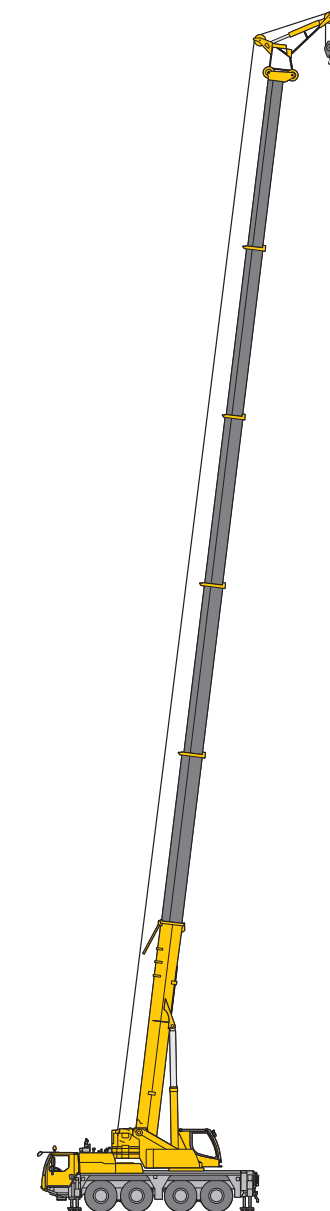
HK Mechanically/hydraulically adjustable assembly jib
NZHK Fléchette de montage réglable mécaniquement/hydrauliquement



T
9 – 18



TK/TNZK
19 – 23



THK/TNZHK
24 – 25

S3041



Lifting capacities

Forces de levage

T



85%

		* 36 ft		48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
8		155.3													8
9		151.2	126.1	125	118.9										9
10		145.5	122.7	122.5	117.9										10
11		136.2	115.8	115.7	114.5	94.5	77.5								11
12		127.5	109.5	109.4	109.7	93.7	76.9								12
13		119.2	103.6	103.6	103.8	92.6	76.3	62.2							13
14		112	98.4	98.3	98.6	91.4	75.6	61.8	50.1						14
15		105	93.3	93.3	93.7	89.8	75	61.4	50						15
16		98.2	88.5	88.8	88.9	86.9	74.1	61	49.8	39.6					16
17		92.3	84.3	84.7	84.9	83.8	73.1	60.6	49.6	39.5					17
18		87	80.4	81.1	81.3	80.6	72	60.2	49.3	39.3					18
20		76.9	72.9	73.9	74.3	74.1	69.5	59.4	48.7	39.1					20
22		69.3	66.8	67.8	68.2	68	65.9	58.6	47.9	38.8	31.6	24.8			22
24		62.5	61	62.1	62.5	62.3	60.9	55.7	46.5	38.6	31.4	24.7			24
26				56.7	57.2	57.1	54.6	51	44.7	38.4	31.1	24.5	19.4		26
28				52.5	52.6	52.1	49.5	46.6	42.4	37.4	30.9	24.2	19.3	16.2	28
30				48.6	48.3	47.4	45	42.5	40	36.2	30.5	23.9	19.1	16.2	30
32				44.7	44.9	43.5	41.3	39.2	37.7	34.8	29.9	23.6	19	16.1	32
34				41.4	41.8	40.2	38.4	36.6	35.4	33.2	29	23.2	18.7	16	34
36				38.4	38.9	37.3	35.9	34.4	33.1	31.3	28.1	22.7	18.5	15.9	36
38					35.9	34.5	33.4	32.1	30.8	29.4	27.1	22.3	18.3	15.8	38
40					33.2	32	31.1	30.1	28.7	27.6	26	21.8	18.1	15.7	40
45					27.9	27.5	26.6	25.9	24.6	23.6	22.2	20.5	17.3	15.2	45
50						23.9	23.1	22.5	21.4	20.5	19.8	18.5	16.4	14.6	50
55							20.3	19.7	18.9	18.2	17.6	16.6	15.5	14	55
60							18.1	17.3	17	16.3	15.5	14.8	14.3	13.2	60
65							15.8	15.3	15.4	14.5	13.7	13.5	12.6	12.2	65
70								13.6	13.8	12.9	12.5	12.1	11.1	10.9	70
75								12.3	12.2	11.7	11.4	10.8	9.9	9.7	75
80								11.2	10.8	10.6	10.2	9.6	8.8	8.6	80
85									9.7	9.6	9.2	8.6	7.8	7.6	85
90									8.8	8.7	8.3	7.7	6.9	6.8	90
95										7.8	7.4	7	6.2	6	95
100											6.7	6.2	5.5	5.3	100
105											6	5.6	4.8	4.7	105
110											5.4	5	4.3	4.2	110
115												4.4	3.8	3.7	115
120												3.9	3.3	3.2	120
125												3.4	2.8	2.8	125
130													2.3	2.3	130

* over rear - en arrière

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Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
9	126.1	125	118.9										9
10	122.7	122.5	117.9										10
11	115.8	115.7	114.5	94.5	77.5								11
12	109.5	109.4	109.7	93.7	76.9								12
13	103.6	103.6	103.8	92.6	76.3	62.2							13
14	98.4	98.3	98.6	91.4	75.6	61.8	50.1						14
15	93.3	93.3	93.7	89.8	75	61.4	50						15
16	88.5	88.8	88.9	86.9	74.1	61	49.8	39.6					16
17	84.3	84.7	84.9	83.8	73.1	60.6	49.6	39.5					17
18	80.4	81.1	81.3	80.6	72	60.2	49.3	39.3					18
20	72.9	73.9	74.3	74.2	69.6	59.4	48.7	39.1					20
22	66.8	67.8	68.2	68.1	67.1	58.6	47.9	38.8	31.6	24.8			22
24	61	62.1	62.5	62.7	62.8	56.4	46.5	38.6	31.4	24.7			24
26		56.7	57.2	57.8	56.6	53	44.7	38.4	31.1	24.5	19.4		26
28		52.5	52.7	53.6	51.7	48.8	42.7	37.4	30.9	24.2	19.3	16.2	28
30		48.6	48.7	49.4	47.1	44.7	40.8	36.2	30.5	23.9	19.1	16.2	30
32		45	45.5	45.6	43.5	41.2	38.8	35	29.9	23.6	19	16.1	32
34		41.9	42.6	42.3	40.4	38.3	36.7	33.5	29.1	23.2	18.7	16	34
36		39.1	39.9	39.5	37.7	35.8	34.5	32	28.3	22.7	18.5	15.9	36
38			37.1	36.6	35.1	33.3	32.4	30.5	27.5	22.3	18.3	15.8	38
40			34.5	34.1	32.7	31.2	30.4	29	26.6	21.8	18.1	15.7	40
45			29.1	29.1	28.4	27.4	26.3	25.4	23.9	20.6	17.3	15.2	45
50				25.2	24.8	24.2	23.1	22.2	20.9	19.3	16.4	14.6	50
55					21.7	21.4	20.3	19.4	18.6	17.8	15.5	14	55
60					19	18.9	18	17.2	17.1	15.9	14.6	13.2	60
65					17.1	16.7	16.4	15.9	15.2	14	13.6	12.4	65
70						14.8	14.8	14.4	13.6	12.9	12.4	11.7	70
75						13.1	13.3	12.8	12.2	11.9	11.2	10.8	75
80						11.8	11.9	11.5	11	10.9	10	9.8	80
85							10.7	10.6	10.1	9.8	9	8.8	85
90							9.8	9.6	9.2	8.8	8.1	7.9	90
95								8.8	8.4	8	7.2	7.1	95
100									7.6	7.2	6.5	6.3	100
105									6.9	6.5	5.8	5.7	105
110									6.3	5.9	5.2	5.1	110
115										5.3	4.7	4.5	115
120										4.7	4.1	4	120
125										4.2	3.6	3.6	125
130											3.1	3.1	130
135											2.7	2.7	135
140												2.3	140

±60° over rear · ±60° en arrière

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Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
9	114.3	113.5	108.1										9
10	111.2	111	107.2										10
11	104.8	104.7	103.7	85.9	70.4								11
12	98.9	98.9	99.3	85.2	70								12
13	93.6	93.5	93.9	84.2	69.4	56.5							13
14	88.5	88.5	88.9	83.1	68.8	56.2	45.5						14
15	83.7	83.7	84	81.6	68.1	55.8	45.5						15
16	79.3	79.7	79.7	78.8	67.4	55.4	45.3	36					16
17	75.5	76	76.1	75.7	66.5	55.1	45.1	35.9					17
18	71.9	72.7	72.8	72.6	65.4	54.7	44.8	35.8					18
20	65	66	66.4	66.3	62.9	53.8	44.3	35.5					20
22	58.9	59.9	60.3	60.2	58	52.1	43.5	35.3	28.7	22.5			22
24	53.2	54.5	54.8	54.8	52.8	48.9	42.2	35.1	28.6	22.4			24
26		49.6	49.8	49.9	47.2	44.1	40.2	34.9	28.3	22.3	17.6		26
28		45.2	45.8	45.3	42.8	40.3	38	33.9	28.1	22	17.5	14.7	28
30		40.9	41.8	40.9	38.7	36.9	35.5	32.7	27.7	21.7	17.4	14.7	30
32		36.5	37.5	37.4	35.5	34.1	32.7	30.7	27.2	21.5	17.2	14.6	32
34		33.1	34.1	34.3	32.9	31.7	30.3	28.8	26.1	21.1	17	14.6	34
36		30.2	31.2	31.5	30.6	29.7	28.4	27	24.7	20.7	16.8	14.5	36
38			28.3	28.8	28.3	27.6	26.4	25.2	23.3	20.3	16.6	14.4	38
40			25.8	26.3	26.2	25.7	24.6	23.5	22	19.7	16.4	14.2	40
45			21.2	21.7	22.1	21.7	21	19.9	19.4	18	15.7	13.8	45
50				18.5	18.7	18.4	18.2	17.6	16.9	16	14.7	13.3	50
55					16	15.7	15.8	15.5	14.8	14.2	13.3	12.4	55
60					13.8	13.7	13.8	13.5	13	12.6	11.6	11.2	60
65					12	12.3	12	12	11.5	11	10.1	9.8	65
70						10.9	10.7	10.6	10.1	9.6	8.8	8.5	70
75						9.6	9.5	9.3	8.9	8.4	7.7	7.4	75
80						8.6	8.4	8.3	7.8	7.4	6.7	6.5	80
85							7.4	7.3	6.9	6.5	5.8	5.6	85
90							6.6	6.4	6.1	5.7	5.1	4.9	90
95								5.7	5.3	5	4.4	4.2	95
100									4.7	4.3	3.8	3.6	100
105									4.1	3.7	3.2	3.1	105
110									3.5	3.2	2.6	2.6	110
115										2.7	2.1	2.1	115
120										2.3			120

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Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
9	114.3	113.5	108.1										9
10	111.2	111	107.2										10
11	104.8	104.7	103.7	85.9	70.4								11
12	98.9	98.9	99.3	85.2	70								12
13	93.6	93.5	93.9	84.2	69.4	56.5							13
14	88.5	88.5	88.9	83.1	68.8	56.2	45.5						14
15	83.7	83.7	84	81.6	68.1	55.8	45.5						15
16	79.3	79.7	79.7	78.8	67.4	55.4	45.3	36					16
17	75.5	76	76.1	75.7	66.5	55.1	45.1	35.9					17
18	71.9	72.7	72.8	72.6	65.4	54.7	44.8	35.8					18
20	65	66	66.4	66.3	63.1	54	44.3	35.5					20
22	58.9	59.9	60.3	60.3	59.7	53.2	43.5	35.3	28.7	22.5			22
24	53.2	54.5	54.9	55.2	55.3	50.8	42.3	35.1	28.6	22.4			24
26		49.7	50	50.9	50.1	46.8	40.6	34.9	28.3	22.3	17.6		26
28		45.6	46.2	46.8	45.6	42.9	38.7	34	28.1	22	17.5	14.7	28
30		41.7	42.7	42.9	41.5	39.3	36.7	32.9	27.7	21.7	17.4	14.7	30
32		38.3	39.2	39.4	38.3	36.4	34.9	31.8	27.2	21.5	17.2	14.6	32
34		35.1	36.1	36.3	35.4	33.9	32.9	30.3	26.5	21.1	17	14.6	34
36		32.2	33.2	33.4	32.9	31.9	30.8	28.8	25.7	20.7	16.8	14.5	36
38			30.3	30.5	30.4	29.8	28.7	27.2	24.9	20.3	16.6	14.4	38
40			27.7	27.9	28.1	27.8	26.8	25.6	23.9	19.8	16.4	14.2	40
45			23	23.5	23.4	23.5	23	22.1	20.6	18.7	15.7	13.8	45
50				20	20.2	20.1	19.7	19.1	18.4	17	14.9	13.3	50
55					17.6	17.2	17	16.7	16.4	15.2	14.1	12.7	55
60					15.2	14.9	15	14.9	14.3	13.5	13	12	60
65					13.4	13.2	13.4	13	12.6	12.4	11.5	11	65
70						12	11.9	11.7	11.3	11	10.1	9.7	70
75						10.8	10.6	10.5	10.2	9.7	8.9	8.6	75
80						9.7	9.5	9.4	9	8.6	7.9	7.6	80
85							8.5	8.4	8.1	7.6	6.9	6.7	85
90							7.7	7.5	7.2	6.8	6.1	5.9	90
95								6.7	6.4	6	5.4	5.2	95
100									5.7	5.3	4.7	4.5	100
105									5	4.7	4.1	3.9	105
110									4.4	4.1	3.5	3.4	110
115										3.6	3	3	115
120										3.1	2.5	2.5	120
125										2.6			125

±60° over rear · ±60° en arrière

t_189_00012_00_002

Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
10	111	110.8	107.4										10
11	104.5	104.4	104.1	86.2	70.5								11
12	98.7	98.6	98.9	85.2	69.9								12
13	93.2	93.1	93.5	84.2	69.4	56.5							13
14	88	87.9	88.3	83.2	68.8	56.2							14
15	83.2	83.1	83.5	81.7	68.2	55.8	45.5						15
16	78.8	78.8	79.1	78.9	67.5	55.4	45.3	36					16
17	74.8	75.8	75.7	76	66.5	55.1	45.1	35.9					17
18	71.2	72.1	72.4	72.3	65.4	54.7	44.8	35.8					18
19	67.6	68.7	69	69	64.4	54.3	44.5	35.7					19
20	64.2	65.2	65.6	65.5	63.1	53.9	44.3	35.5					20
22	57.7	58.8	59.3	58.6	55.8	51.8	43.7	35.3	28.7	22.5			22
24	51.8	53.3	53.7	52.8	49.5	46.2	42.1	35.1	28.6	22.4			24
26	46.8	48.6	48.1	47.1	44.5	41.4	39.3	34.9	28.3	22.3	17.6		26
28	41.1	43.6	44.3	42.4	40.1	37.8	36.5	33.7	28.1	22	17.5	14.7	28
30		38.4	39.5	38.5	36.4	35	33.3	31.3	27.8	21.7	17.4	14.7	30
32		34.2	35.2	35.1	33.9	32.6	30.9	29.4	27.1	21.5	17.2	14.6	32
34		30.7	31.7	32	31.3	30	28.5	27.3	25.5	21.1	17.1	14.5	34
36		27.8	28.9	29.1	28.9	27.8	26.6	25.3	23.6	20.7	16.9	14.4	36
38		25.2	26.2	26.9	26.7	26.1	24.7	23.5	21.9	20.3	16.7	14.3	38
40		23.1	24.1	24.7	24.5	24.3	23	21.8	21.1	19.7	16.4	14.3	40
45			19.8	20.3	20.7	20.4	20	19.1	18.2	16.9	15.7	13.8	45
50			16.5	17.4	17.4	17.2	17.3	16.6	15.6	15.2	14.3	13.3	50
55				14.8	14.8	14.9	14.9	14.3	14	13.3	12.3	11.9	55
60				12.8	12.8	13.1	12.8	12.8	12.3	11.6	10.6	10.2	60
65					11.2	11.5	11.2	11.1	10.6	10.1	9.2	8.8	65
70					9.9	10.1	9.9	9.7	9.3	8.8	8	7.6	70
75					8.8	8.9	8.7	8.5	8.1	7.7	6.9	6.6	75
80						7.9	7.7	7.5	7.1	6.7	6	5.7	80
85						7	6.7	6.6	6.3	5.9	5.1	4.9	85
90							5.9	5.8	5.5	5.1	4.4	4.2	90
95							5.3	5.1	4.7	4.4	3.8	3.6	95
100								4.5	4.1	3.8	3.2	3.1	100
105								3.9	3.5	3.2	2.7	2.5	105
110								3.5	3	2.7	2	1.9	110
115									2.6	2.2			115
120									2.2				120

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Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
10	111	110.8	107.4										10
11	104.5	104.4	104.1	86.2	70.5								11
12	98.7	98.6	98.9	85.2	69.9								12
13	93.2	93.1	93.5	84.2	69.4	56.5							13
14	88	87.9	88.3	83.2	68.8	56.2							14
15	83.2	83.1	83.5	81.7	68.2	55.8	45.5						15
16	78.8	78.8	79.1	78.9	67.5	55.4	45.3	36					16
17	74.8	75.8	75.7	76	66.5	55.1	45.1	35.9					17
18	71.2	72.1	72.4	72.3	65.4	54.7	44.8	35.8					18
19	67.6	68.7	69	69	64.4	54.3	44.5	35.7					19
20	64.2	65.2	65.6	65.5	63.3	53.9	44.3	35.5					20
22	57.7	58.8	59.3	59.2	58.9	53.2	43.7	35.3	28.7	22.5			22
24	51.8	53.3	53.8	54.7	52.7	49.4	42.4	35.1	28.6	22.4			24
26	46.8	48.7	48.7	50	47.6	44.6	40.6	34.9	28.3	22.3	17.6		26
28	42.5	44.5	45.1	45.5	43.2	40.5	38	34	28.1	22	17.5	14.7	28
30		40.5	41.5	41.5	39.4	37.3	36	32.9	27.8	21.7	17.4	14.7	30
32		36.6	37.5	37.8	36.2	34.4	33.4	31.3	27.2	21.5	17.2	14.6	32
34		33.1	34	34.3	33.4	32.2	31	29.3	26.5	21.1	17.1	14.5	34
36		30.1	31.1	31.2	31.2	30.3	29	27.8	25.7	20.7	16.9	14.4	36
38		27.5	28.4	28.6	28.9	28.3	27.1	26.1	24.3	20.3	16.7	14.3	38
40		25.3	26.2	26.7	26.6	26.4	25.3	24.2	22.6	19.8	16.4	14.3	40
45			21.6	22.3	22.2	22.3	21.6	20.6	19.5	18.5	15.7	13.8	45
50			18.3	18.8	19.2	18.9	18.7	18	17.5	16.1	14.9	13.3	50
55				16.4	16.5	16.2	16.2	16.1	15.2	14.4	13.8	12.7	55
60				14.4	14.4	14.2	14.4	14	13.2	13.1	12	11.6	60
65					12.6	12.7	12.6	12.4	12	11.5	10.5	10.2	65
70					11.1	11.4	11.1	11.1	10.7	10.1	9.2	8.9	70
75					9.9	10.1	9.9	9.8	9.4	8.9	8.1	7.8	75
80						9.1	8.9	8.7	8.3	7.8	7.1	6.8	80
85						8.2	7.9	7.8	7.4	6.9	6.2	5.9	85
90							7.1	6.9	6.5	6.1	5.4	5.2	90
95							6.3	6.1	5.8	5.4	4.7	4.5	95
100								5.4	5.1	4.7	4.1	3.9	100
105								4.8	4.4	4.1	3.5	3.3	105
110								4.3	3.9	3.5	3	2.9	110
115									3.4	3	2.5	2.4	115
120									3	2.6	1.9	1.9	120
125										2.2			125
130										1.8			130

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Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
10	110.2	110	107.4										10
11	103.5	103.4	103.4	86.2	70.5								11
12	97.2	97	97.4	85.2	69.9								12
13	91.3	91.4	91.7	84.2	69.4	56.5							13
14	86.1	86.1	86.5	83.2	68.8	56.2							14
15	81.4	81.3	81.8	77.3	68.2	55.8	45.5						15
16	76.8	77.3	77.7	72.7	67.5	55.4	45.3	36					16
17	72	73.3	72.2	66.9	62.7	55.1	45.1	35.9					17
18	67.2	68.7	65.7	62.8	58	52.5	44.8	35.8					18
19	62.8	64	60.5	57.9	53.6	49.2	43.6	35.7					19
20	58.8	59.2	57.1	53.6	49.8	45.9	42.9	35.5					20
22	51.6	51.4	49.4	46.7	43.5	41.8	38.7	34.9	28.7	22.5			22
24	42.9	44.7	43.2	41.1	39.2	37.1	35	32.6	28.6	22.4			24
26	36.3	38.9	38.3	36.5	35.1	33.7	31.6	29.7	27.4	22.3	17.6		26
28	31.3	33.7	34.2	33.3	31.6	30.4	28.8	26.9	25	22	17.5	14.7	28
30		29.6	30.6	30.1	29.4	27.7	26.6	24.9	23.6	21.7	17.4	14.7	30
32		26.2	27.4	27.4	26.8	25.4	24.3	23.2	21.9	20.1	17.2	14.6	32
34		23.4	24.6	25	24.6	23.4	22.6	21.4	20.1	18.7	17.1	14.5	34
36		21	22.2	23.2	22.7	21.6	21.1	19.7	18.9	17.9	16.7	14.4	36
38		19	20.1	21.1	20.9	20.2	19.5	18.5	17.8	16.8	15.5	14.3	38
40		17.3	18.3	19.3	19.3	19.1	18.1	17.5	16.5	15.5	14.4	13.8	40
45			14.8	15.7	15.9	16	15.3	14.7	13.9	13	11.9	11.6	45
50			12.2	13	13.2	13.4	13	12.5	11.7	10.9	9.9	9.7	50
55				11	11.1	11.1	11	10.6	10	9.2	8.3	8.1	55
60				9.3	9.5	9.5	9.4	9.1	8.5	7.8	7	6.8	60
65					8.1	8.2	8	7.8	7.3	6.7	5.8	5.6	65
70					6.9	7.1	6.9	6.7	6.2	5.6	4.8	4.7	70
75					5.9	6.1	5.9	5.7	5.3	4.7	3.9	3.8	75
80						5.2	5	4.9	4.5	4	3.1	3	80
85						4.5	4.3	4.1	3.8	3.3	2.2	2.1	85
90							3.6	3.5	3.1	2.5			90
95							3.1	2.9	2.4	1.8			95
100								2.3	1.7				100
105								1.7					105

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Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
10	110.2	110	107.4										10
11	103.5	103.4	103.4	86.2	70.5								11
12	97.2	97	97.4	85.2	69.9								12
13	91.3	91.4	91.7	84.2	69.4	56.5							13
14	86.1	86.1	86.5	83.2	68.8	56.2							14
15	81.4	81.3	81.8	79.8	68.2	55.8	45.5						15
16	76.8	77.3	77.7	75.5	67.5	55.4	45.3	36					16
17	72	73.3	73.8	70.6	66	55.1	45.1	35.9					17
18	67.2	68.7	69.2	65.3	62.6	54.7	44.8	35.8					18
19	62.8	64.4	64.7	62.4	58.3	53.9	44.5	35.7					19
20	58.8	60.4	60.2	58.3	54.4	50.5	44.2	35.5					20
22	52.1	54	54	51.3	48	45	41.9	35.3	28.7	22.5			22
24	46.4	48.5	47.8	45.6	42.8	40.7	38.4	34.7	28.6	22.4			24
26	40	42.3	42.7	40.8	38.6	37.2	34.8	32.5	28.3	22.3	17.6		26
28	34.8	37.1	38.2	36.9	35.5	33.5	31.8	29.9	27.5	22	17.5	14.7	28
30		32.9	34	33.4	32.2	30.9	29	27.3	25.2	21.7	17.4	14.7	30
32		29.4	30.4	31	29.3	28.3	26.6	24.9	23.9	21.5	17.2	14.6	32
34		26.4	27.4	28.1	27.3	26	24.9	23.4	22.4	20.5	17.1	14.5	34
36		23.9	24.9	25.6	25.5	24	23.1	22	20.7	19.1	16.9	14.4	36
38		21.8	22.9	23.4	23.6	22.2	21.5	20.5	19.2	17.8	16.7	14.3	38
40		19.9	21	21.6	21.9	20.8	20.4	19	17.8	17.3	16	14.3	40
45			17.2	18.1	18.1	17.7	17.2	16.5	15.6	14.7	13.5	13.1	45
50			14.2	15.1	15.1	15.5	14.6	14.2	13.3	12.4	11.4	11.1	50
55				12.7	12.9	13.1	12.8	12.2	11.4	10.6	9.6	9.4	55
60				10.9	11	11	10.9	10.6	9.8	9.1	8.2	8	60
65					9.5	9.5	9.4	9.1	8.5	7.8	6.9	6.8	65
70					8.2	8.3	8.1	7.9	7.4	6.7	5.9	5.7	70
75					7.1	7.3	7.1	6.8	6.4	5.8	4.9	4.8	75
80						6.3	6.1	6	5.5	5	4.1	4	80
85						5.5	5.3	5.1	4.8	4.2	3.4	3.3	85
90							4.6	4.4	4.1	3.6	2.7	2.6	90
95							3.9	3.8	3.4	3	1.9	1.8	95
100								3.2	2.8	2.4			100
105								2.7	2.2	1.7			105
110								2.3					110

t_189_30037_00_000

Lifting capacities

Forces de levage

T



85%

	36 ft	48 ft	60 ft	
9	35.2	36.6	36.6	9
10	34.1	35.2	35.6	10
11	31.7	32.9	33.4	11
12	29.6	30.8	31.3	12
13	27.6	28.9	29.4	13
14	25.9	27.2	27.7	14
15	24.2	25.6	26.1	15
16	22.8	24.1	24.7	16
17	21.5	22.8	23.4	17
18	20.3	21.6	22.2	18
20	18	19.3	19.9	20
22	16.1	17.4	18.1	22
24	14.3	15.7	16.4	24
26		14.3	14.9	26
28		12.7	13.6	28
30		11.2	12.2	30
32		10	10.9	32
34		9	9.8	34
36		8.1	8.9	36
38			8.1	38
40			7.2	40
45			5.7	45

0° = over rear · en arrière

t_189_00312_00_002



15,200 lbs
12,600 lbs

85%

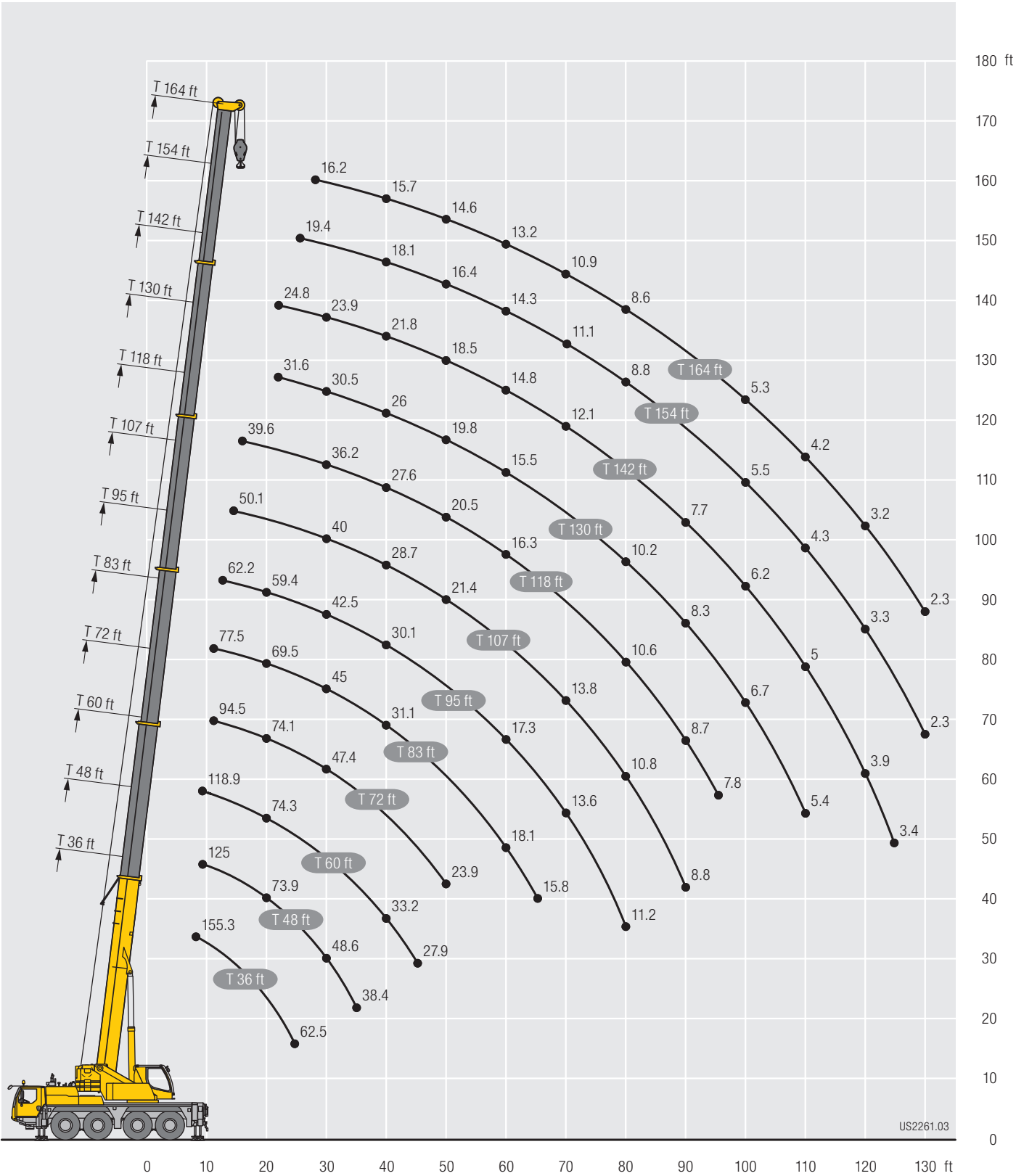
	36 ft		48 ft		60 ft		
	15,200 lbs	12,600 lbs	15,200 lbs	12,600 lbs	15,200 lbs	12,600 lbs	
10		25.2					10
11		21.9	22.4	23.3		21.6	11
12		19.1	21.0	21.2		20.5	12
13	18.5	16.7	18.5	18.8		18.6	13
14	16.5	14.8	17.2	16.8	17.2	17.3	14
15	14.6	13.0	16.1	15.1	15.9	16.0	15
16	13.0	11.1	14.9	13.6	15.5	14.5	16
17	11.5	9.6	13.6	12.2	14.6	13.2	17
18	10.1	8.3	12.4	10.9	13.4	12.1	18
20	7.4	5.9	10.0	8.4	11.0	9.8	20
22	5.7	4.5	8.0	6.5	9.3	7.9	22
24	4.3	3.4	6.2	5.0	7.6	6.3	24
26			4.8	4.0	6.1	5.0	26
28			3.9	3.1	5.0	4.0	28
30			3.1		4.0	3.2	30
32			2.5		3.3	2.6	32

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Lifting heights

Hauteurs de levage

T



US2261.03

Lifting capacities
Forces de levage

TK/TNZK

																									
	36 ft				48 ft				60 ft				72 ft				83 ft				95 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°	
9	25.1				25.1				25.1				25.1				25.1								9
10	25.1				25.1				25.1				25.1				25.1								10
11	25.1				25.1				25.1				25.1				25.1				25.1				11
12	25.1				25.1				25.1				25.1				25.1				25.1				12
13	25.1	23			25.1				25.1				25.1				25.1				25.1				13
14	25.1	22.4			25.1				25.1				25.1				25.1				25.1				14
15	25.1	21.9			25.1	22.7			25.1				25.1				25.1				25.1				15
16	25.1	21.4			25.1	22.2			25.1	22.5			25.1				25.1				25.1				16
17	25.1	20.9			25.1	21.7			25.1	22.1			25.1				25.1				25.1				17
18	25.1	20.4			25.1	21.3			25.1	21.7			25.1	21.5			25.1	21.2			25.1				18
20	25.1	19.5			25.1	20.5			25.1	20.9			25.1	20.9			25.1	21			25.1				20
22	25.1	18.7	15.1		25.1	19.7			25.1	20.3			25.1	20.3			25.1	20.4			25.1	19.5			22
24	24.9	18	14.8		25.1	19			25.1	19.7			25.1	19.7			25.1	19.9			25.1	19.2			24
26	24.6	17.3	14.5		25.1	18.4	14.7		25.1	19	14.9		25.1	19.2	14.8		25.1	19.4			25.1	18.8			26
28	23.7	16.8	14.1		25.1	17.8	14.5		25.1	18.5	14.7		25.1	18.7	14.6		25.1	18.9			25.1	18.4			28
30	22.6	16.2	13.7	11.3	24.9	17.2	14.2	11.4	25.1	18	14.4		25.1	18.2	14.4		25.1	18.5	14.5		25.1	18			30
32	21.5	15.8	13.3	11.1	24.2	16.7	13.9	11.3	25.1	17.5	14.2	11.4	25.1	17.7	14.2	11.4	25.1	18	14.3		25.1	17.7	14		32
34	20.3	15.3	13	11	23.4	16.3	13.6	11.2	24.8	17.1	14	11.3	25	17.3	13.9	11.3	25.1	17.7	14.1		24.9	17.4	13.8		34
36	19.1	14.9	12.8	10.9	22.5	15.9	13.3	11	24.3	16.7	13.7	11.2	24.7	17	13.7	11.2	24.9	17.3	13.9	11.3	24.6	17.1	13.6		36
38	17.9	14.4	12.5	10.7	21.6	15.6	13	10.9	23.7	16.3	13.4	11	24.4	16.6	13.4	11.1	24.8	17	13.6	11.2	24.3	16.7	13.4	11.1	38
40	16.8	14	12.3	10.7	20.6	15.2	12.8	10.8	23	15.9	13.1	10.9	23.9	16.3	13.2	11	24.4	16.6	13.4	11.1	23.9	16.5	13.2	11.1	40
45	14.5	13.1	11.8	10.6	18.1	14.3	12.3	10.6	20.8	15.2	12.6	10.8	22	15.6	12.8	10.8	22.5	15.9	13	10.9	22.3	15.9	12.8	10.9	45
50	12.7	12.4			15.9	13.4	11.9	10.6	18.8	14.4	12.3	10.6	20.2	14.9	12.4	10.7	19.7	15.2	12.6	10.8	19.8	15.3	12.6	10.8	50
55					14.1	12.7	11.6		16.8	13.7	11.9	10.6	18.2	14.3	12.1	10.6	17	14.6	12.3	10.7	17.3	14.7	12.3	10.7	55
60					12.5	12.3	11.4		15	13	11.6	10.6	16.2	13.7	11.9	10.6	14.8	14	12.1	10.6	15.1	14.2	12.1	10.6	60
65									13.6	12.5	11.5	10.6	14.3	13.1	11.6	10.6	12.9	13.3	11.8	10.6	13.3	13.6	11.9	10.6	65
70									12.4	12.2	11.4		12.6	12.6	11.5	10.6	11.4	12.1	11.7	10.6	11.8	12.5	11.7	10.6	70
75													11.1	11.6	11.1	10.6	10.1	10.8	11	10.5	10.4	11.2	11.2	10.6	75
80													9.8	10.2	10.4	10.2	8.9	9.5	9.9	10	9.3	9.9	10.4	10.4	80
85													8.7	9	9.1		7.8	8.4	8.7	8.7	8.2	8.8	9.2	9.4	85
90																	6.9	7.3	7.5		7.4	7.9	8.2	8.3	90
95																	6	6.3			6.5	7	7.2	7.2	95
100																					5.8	6.1	6.3		100
105																					5	5.3	5.4		105
110																					4.4	4.6			110

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Lifting capacities

Forces de levage

TK/TNZK



85%

	107 ft				118 ft				130 ft				142 ft				154 ft				164 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°	
14	25.1																								14
15	25.1																								15
16	25.1				19.5																				16
17	25.1				19.5																				17
18	25.1				19.3				16.8																18
20	25.1				19				16.7																20
22	25.1				18.8				16.5				11.4												22
24	25.1				18.5				16.3				11.4				10.2								24
26	25	18.3			18.2				16.1				11.4				10.2				8.6				26
28	24.7	18			18	15.8			15.9				11.4				10.1				8.6				28
30	24.4	17.7			17.7	15.7			15.6				11.3				10.1				8.6				30
32	24	17.4	13.9		17.5	15.6			15.5	13.5			11.3	10.2			10.1				8.5				32
34	23.7	17.1	13.8		17.3	15.5			15.3	13.5			11.2	10.1			10				8.5				34
36	23.4	16.8	13.6		17.1	15.3			15.1	13.4			11.1	10.1			9.9				8.4				36
38	23	16.6	13.4	11.1	16.9	15.2	13		14.9	13.3	12.4		11.1	10			9.9	9			8.4	7.7			38
40	22.6	16.4	13.2	11.1	16.7	15	13		14.7	13.2	12.4		11	10			9.8	9			8.3	7.7			40
45	21.1	15.8	12.8	10.9	16	14.2	12.7	10.8	14.2	12.9	12.3	10.8	10.7	9.9	9.6		9.6	8.9	8.7		8.2	7.6			45
50	18.5	15.3	12.5	10.8	15.2	13.5	12.2	10.7	13.7	12.7	12	10.7	10.4	9.7	9.6	9.7	9.4	8.8	8.7		8	7.6	7.3		50
55	15.9	14.8	12.3	10.7	14.3	12.8	11.8	10.6	13.3	12.3	11.6	10.6	10.1	9.5	9.4	9.5	9.2	8.8	8.6	8.9	7.9	7.5	7.3	7.5	55
60	13.9	14.2	12.1	10.6	13.4	12.2	11.4	10.5	12.7	11.9	11.2	10.5	9.6	9.2	9.1	9.2	9	8.7	8.5	8.8	7.7	7.5	7.3	7.5	60
65	12.8	13	12	10.6	12.5	11.5	10.9	10.4	11.4	11.5	10.8	10.5	9.2	8.9	8.7	8.8	8.7	8.5	8.3	8.6	7.6	7.4	7.2	7.5	65
70	11.8	11.5	11.7	10.6	11.1	11	10.5	10.3	10.1	10.8	10.4	10.3	8.8	8.5	8.4	8.4	8.4	8.3	8.1	8.3	7.4	7.3	7.1	7.4	70
75	10.6	10.5	10.8	10.4	9.8	10.3	10.1	10.1	8.8	9.8	10	10	8.4	8.1	8	8.1	8	8	7.9	7.9	7.1	7.2	7	7.2	75
80	9.5	9.8	9.7	10.1	8.7	9.4	9.7	9.8	7.9	8.7	9.3	9.5	7.9	7.7	7.7	7.7	7.5	7.6	7.6	7.6	6.9	6.9	6.9	6.9	80
85	8.5	9	9.3	9.4	7.7	8.4	9	9.3	7.5	7.6	8.2	8.5	7.4	7.4	7.3	7.4	6.6	7.2	7.3	7.4	6.4	6.7	6.6	6.7	85
90	7.6	8.1	8.5	8.7	6.8	7.4	8	8.3	7	7	7.2	7.5	6.6	7	7	7.1	5.8	6.5	6.8	7.1	5.6	6.2	6.4	6.5	90
95	6.8	7.3	7.7	7.8	6.1	6.6	7.1	7.3	6.4	6.6	6.7	6.9	5.8	6.4	6.6	6.8	5.1	5.7	6.2	6.5	4.9	5.5	5.9	6.1	95
100	6.1	6.5	6.9	6.9	5.4	5.8	6.3	6.4	5.8	6.2	6.3	6.4	5.2	5.7	6.1	6.3	4.4	5	5.4	5.7	4.2	4.8	5.3	5.6	100
105	5.4	5.8	6.1	6	4.7	5.2	5.6	5.6	5.1	5.6	5.9	6	4.5	5	5.4	5.6	3.8	4.3	4.7	4.9	3.6	4.1	4.6	4.8	105
110	4.8	5.1	5.3	5.2	4.2	4.5	4.9	4.9	4.6	5	5.3	5.3	4	4.4	4.8	4.9	3.2	3.7	4.1	4.3	3	3.6	4	4.2	110
115	4.2	4.5	4.6		3.6	4	4.3	4.2	4	4.4	4.6	4.7	3.5	3.9	4.2	4.3	2.7	3.2	3.5	3.6	2.5	3	3.4	3.6	115
120					3.1	3.4	3.6	3.5	3.6	3.9	4.1	4.1	3	3.4	3.6	3.7	2.2	2.7	3	3.1	2.1	2.5	2.9	3	120
125					2.6	2.9	3	2.8	3.1	3.4	3.6	3.5	2.6	2.9	3.1	3.1	1.8	2.2	2.5	2.5		2.1	2.4	2.5	125
130					2.2	2.4	2.5		2.7	3	3.1	2.9	2.2	2.5	2.7	2.6	1.4	1.8	2	2.1		1.7	1.9	2	130
135									2.3	2.5	2.6		1.8	2.1	2.2	2.1			1.6	1.6					135
140									1.9	2.1					1.8										140

t_189_05064_00_001 / 05072_00_001 / 05080_00_001 / 05088_00_001 / t_189_05256_00_001

Lifting capacities

Forces de levage

TK/TNZK



85%

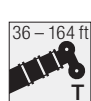
	36 ft				48 ft				60 ft				72 ft				83 ft				95 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
9	18.5				18.4				18																9
10	18.4				18.4				17.9																10
11	18				18.2				17.8				16.8												11
12	17.7				18				17.7				16.7												12
13	17.3				17.8				17.5				16.6				16								13
14	16.9				17.5				17.4				16.4				15.9				13.3				14
15	16.5				17.2				17.2				16.3				15.8				13.3				15
16	16.1				16.8				17				16.2				15.7				13.3				16
17	15.7				16.5				16.8				16				15.6				13.3				17
18	15.3				16.1				16.5				15.9				15.5				13.3				18
20	14.5				15.4				15.9				15.5				15.3				13.3				20
22	13.8	9.6			14.8				15.3				15				15				13.3				22
24	13.1	9.3			14.1				14.7				14.5				14.6				13.2				24
26	12.3	9			13.5	9.2			14.2	9.4			14				14.1				13				26
28	11.7	8.7			12.9	9			13.7	9.1			13.5				13.7				12.8				28
30	11.1	8.4			12.3	8.7			13.1	8.9			13	8.9			13.3	9			12.6				30
32	10.7	8.1			11.7	8.4			12.6	8.6			12.6	8.7			12.8	8.8			12.4	8.6			32
34	10.4	7.9			11.2	8.2			12.1	8.4			12.3	8.5			12.5	8.6			12.2	8.5			34
36	10	7.7			10.9	8			11.6	8.2			11.9	8.3			12.2	8.4			12	8.3			36
38	9.6	7.4			10.5	7.8			11.1	8			11.5	8.1			11.8	8.2			11.8	8.1			38
40	9.3	7.2			10.1	7.6			10.7	7.8			11.2	7.9			11.5	8			11.6	8			40
45	8.5	6.8	5.9		9.3	7.1	6		10	7.4	6		10.4	7.5	6		10.8	7.7	6.1		11	7.6			45
50	7.8	6.4	5.6		8.6	6.7	5.7		9.3	7	5.8		9.8	7.1	5.9		10.1	7.3	5.9		10.4	7.3			50
55	7.2	6	5.4	5.3	8	6.4	5.5	5.3	8.7	6.7	5.6		9.2	6.8	5.7		9.5	7	5.8		9.9	7	5.7		55
60	6.7	5.7	5.3	5.2	7.5	6.1	5.4	5.2	8.1	6.4	5.5	5.3	8.6	6.5	5.5	5.3	9.1	6.7	5.6	5.3	9.4	6.8	5.6	5.3	60
65	6.2	5.5	5.1		7	5.8	5.2	5.2	7.6	6.1	5.4	5.2	8.1	6.3	5.4	5.2	8.6	6.5	5.5	5.2	9	6.5	5.5	5.2	65
70	5.8	5.3			6.5	5.6	5.1	5.2	7.2	5.8	5.2	5.2	7.6	6	5.3	5.2	8.1	6.2	5.4	5.2	8.6	6.3	5.4	5.2	70
75					6.1	5.4	5.1		6.7	5.6	5.1	5.2	7.2	5.8	5.2	5.2	7.7	6	5.3	5.1	8.2	6.1	5.3	5.1	75
80					5.8	5.2	5.1		6.4	5.4	5.1	5.2	6.8	5.6	5.1	5.1	7.3	5.8	5.2	5.1	7.8	5.9	5.2	5.1	80
85					5.4	5.1			6	5.3	5	5.2	6.5	5.5	5	5.1	6.9	5.6	5.1	5.1	7.5	5.7	5.1	5.1	85
90									5.7	5.2	5		6.2	5.3	5	5.1	6.6	5.5	5	5.1	7.2	5.6	5	5.1	90
95													5.9	5.2	5		6.3	5.3	5	5.1	6.9	5.5	5	5.1	95
100													5.6	5.1			5.9	5.2	5	5.1	6.5	5.3	5	5.1	100
105													5.4	5			5.5	5.1	5	5.1	5.9	5.2	5	5.1	105
110																	4.8	5	5		5.3	5.1	4.9	5.1	110
115																	4.2	4.6			4.7	5	4.9	5	115
120																					4.1	4.6	4.7		120
125																					3.6	4	4.2		125
130																					3.2	3.5			130

t_189_05096_00_001 / 05104_00_001 / 05112_00_001 / 05120_00_001 / t_189_05264_00_001

Lifting capacities

Forces de levage

TK/TNZK



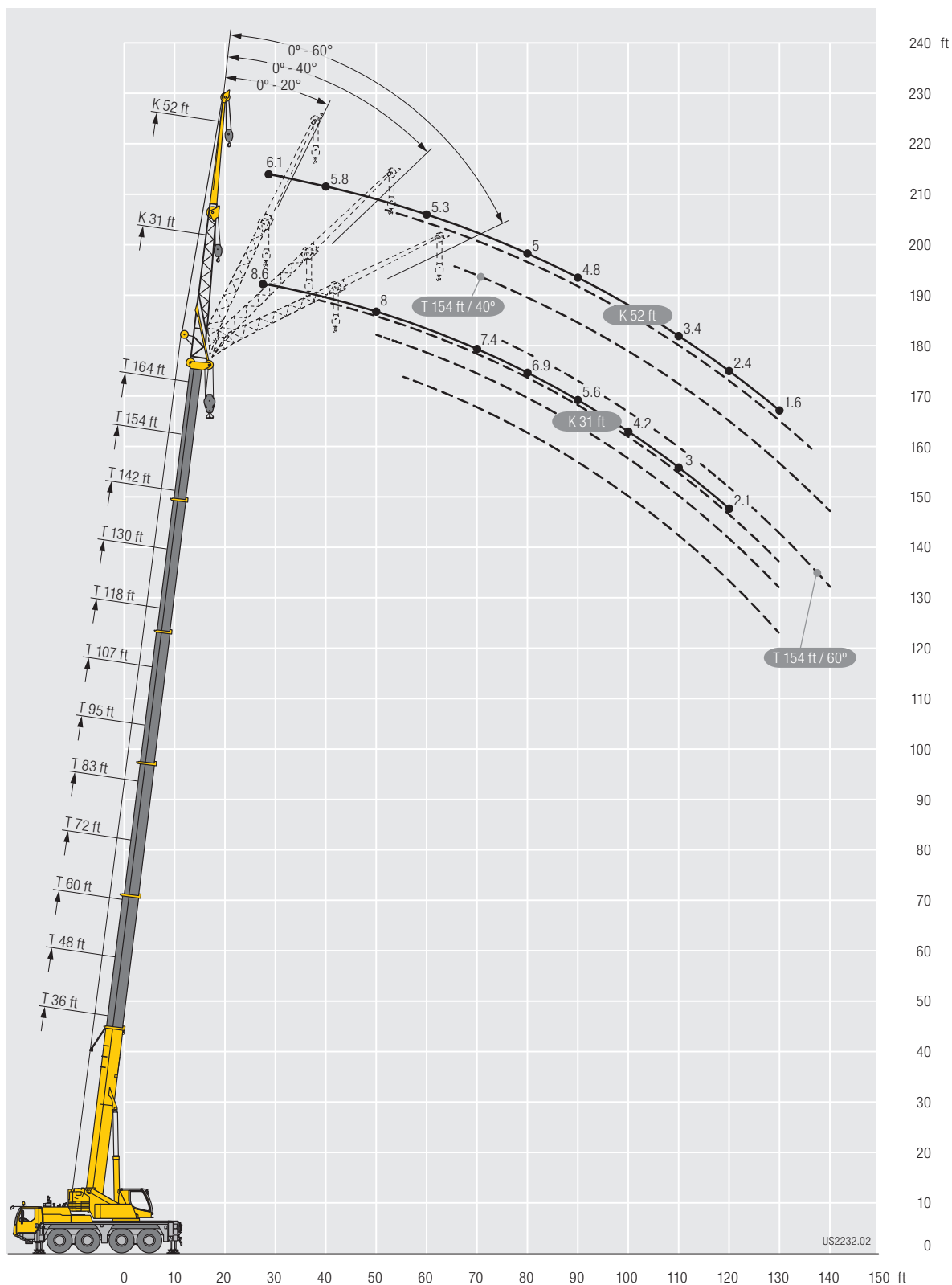
85%

	107 ft				118 ft				130 ft				142 ft				154 ft				164 ft		
	52 ft																						
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	
17	12.4																						17
18	12.4																						18
20	12.4				10.5																		20
22	12.4				10.5				9.7														22
24	12.4				10.5				9.7														24
26	12.4				10.5				9.7				7.9				7.2						26
28	12.3				10.5				9.6				7.8				7.1				6.1		28
30	12.2				10.5				9.6				7.7				7.1				6.1		30
32	12				10.4				9.5				7.6				7				6		32
34	11.8				10.3				9.5				7.5				6.9				6		34
36	11.6				10.2				9.4				7.4				6.8				5.9		36
38	11.5	8.1			10.1	7.6			9.3				7.3				6.7				5.8		38
40	11.3	8			10	7.6			9.2				7.3				6.7				5.8		40
45	10.9	7.7			9.8	7.3			9	7.2			7.1	6.4			6.5				5.6		45
50	10.4	7.4			9.5	7.1			8.8	7			7	6.4			6.4	5.8			5.5	5	50
55	10	7.1	5.8		9.2	6.8	5.6		8.6	6.8	5.6		6.8	6.3			6.2	5.7			5.4	5	55
60	9.5	6.8	5.6	5.3	8.9	6.6	5.5		8.4	6.6	5.5		6.7	6.2	5.3		6.1	5.7			5.3	4.9	60
65	9.1	6.6	5.5	5.2	8.6	6.4	5.4	5.1	8.2	6.4	5.4	5.1	6.6	6.1	5.3		6	5.7	5.2		5.2	4.9	65
70	8.7	6.4	5.4	5.1	8.3	6.2	5.3	5.1	8	6.2	5.3	5.1	6.5	6	5.2	5	5.9	5.6	5.1		5.1	4.9	70
75	8.4	6.2	5.3	5.1	8	6.1	5.3	5.1	7.9	6.1	5.2	5	6.4	5.8	5.1	5	5.8	5.6	5.1	4.9	5	4.8	75
80	8	6	5.2	5.1	7.8	5.9	5.2	5	7.6	5.9	5.2	5	6.3	5.7	5.1	5	5.8	5.5	5	4.9	5	4.8	80
85	7.6	5.8	5.1	5.1	7.5	5.8	5.1	5	7.3	5.8	5.1	5	6.2	5.6	5	5	5.7	5.5	5	4.9	4.9	4.8	85
90	7.2	5.7	5.1	5.1	7.1	5.7	5.1	5	6.5	5.6	5	5	6	5.5	5	4.9	5.5	5.4	4.9	4.9	4.8	4.8	90
95	6.9	5.5	5	5.1	6.6	5.5	5	5	6	5.5	5	5	5.7	5.4	4.9	4.9	5.2	5.3	4.9	4.9	4.7	4.7	95
100	6.6	5.4	5	5.1	5.9	5.4	5	5	5.6	5.4	4.9	5	5.4	5.2	4.9	4.9	4.7	5.2	4.8	4.9	4.4	4.7	100
105	6	5.3	5	5.1	5.3	5.3	4.9	5	5.3	5.2	4.9	5	4.9	5.1	4.8	4.9	4.1	5	4.8	4.9	3.9	4.6	105
110	5.4	5.2	4.9	5.1	4.7	5.2	4.9	5	4.9	5	4.9	5	4.3	4.9	4.8	4.9	3.6	4.5	4.8	4.9	3.4	4.2	110
115	4.9	5	4.9	5.1	4.2	4.8	4.9	5	4.4	4.8	4.8	4.9	3.8	4.5	4.7	4.9	3.1	4	4.5	4.7	2.9	3.8	115
120	4.4	4.8	4.9	4.9	3.7	4.4	4.7	4.8	4	4.5	4.7	4.8	3.4	4.1	4.5	4.7	2.6	3.4	4	4.4	2.4	3.3	120
125	3.9	4.4	4.7	4.6	3.3	3.9	4.2	4.3	3.5	4.1	4.5	4.6	2.9	3.6	4.1	4.3	2.2	3	3.5	3.8	2	2.8	125
130	3.5	3.9	4.1		2.9	3.4	3.7	3.7	3.1	3.6	4	4.1	2.5	3.1	3.6	3.8	1.8	2.5	3	3.2	1.6	2.3	130
135	3	3.4	3.5		2.5	3	3.2	3.1	2.8	3.2	3.6	3.6	2.2	2.7	3.1	3.2		2.1	2.6	2.7		1.9	135
140	2.7				2.1	2.5	2.7		2.4	2.8	3.1	3.1	1.8	2.4	2.7	2.8		1.7	2.1	2.3			140
145	2.3				1.8	2.1	2.2		2.1	2.5	2.7	2.5		2	2.3	2.3							145
150					1.4	1.7			1.7	2.1	2.3	2		1.6	1.9	1.8							150
155										1.7	1.8				1.5								155

t_189_05096_00_001 / 05104_00_001 / 05112_00_001 / 05120_00_001 / t_189_05264_00_001

Lifting heights Hauteurs de levage

TK/TNZK



Lifting capacities

Forces de levage

THK/TNZHK



85%

	36 ft				48 ft				60 ft				72 ft				83 ft				95 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°	
9		69.2	57.2	48.8			60.5	50.2			60.9														9
10		68.9	56.9	48.5			59.7	49.9			60.5	50.3			59.9										10
11		67.8	55.6	47.6		70.5	58.5	49.2			59.4	49.7		59.1	49.3										11
12		66.7	54.4	46.8		69.9	57.4	48.5			58.4	49.1		58.3	49.1										12
13		65.6	53.2	46.1		69	56.2	47.9			57.5	48.5		57.5	48.7			53.6							13
14		64.3	52.1	45.4		68.1	55.2	47.2			56.6	47.9		56.8	48.3			53.1	46.7			47.8			14
15		63	51	44.7		67.1	54.3	46.6		70.2	55.7	47.4		56	48			52.6	46.4			47.5			15
16		61.5	50	44		66.2	53.4	46		69.4	54.8	46.9		55.4	47.6			52.1	46			46.8	42.7		16
17		60	49.1	43.4		65.2	52.5	45.5		68.4	54	46.4		54.7	47.2			51.6	45.7			46.2	42.3		17
18		58.5	48.2	42.9		64.1	51.6	45		67.2	53.3	46		66.2	54	46.8		51	45.3			45.5	41.7		18
20		55.6	46.6	42		61.9	49.9	43.9		64.9	51.8	45		64.6	52.7	45.9		49.8	44.6			44.1	40.3		20
22	65.1	53	45	41		59.6	48.6	43.1		62.7	50.4	44.2		62.3	51.5	45.2		52.4	48.4	44.1			42.8	39	22
24	61	50.7	43.6	40.3		57.1	47.2	42.3		59.4	49.1	43.5		58.5	50.3	44.5		50.4	47.1	43.5			41.4	37.8	24
26	56.1	48.7	42.5	39.9		54.7	45.9	41.6		55.1	47.9	42.8		53.4	49	43.8		48.2	45.7	42.9		44.2	40	36.7	26
28	51.9	46.9	41.5	39.5		51.7	44.8	40.9		50.9	46.8	42.2		48.6	47	43.2		44.6	43.8	41.8		42.6	38.6	35.6	28
30	47.8	45.1	40.6	39.3	47.9	48.4	43.7	40.3		46.6	45.4	41.6		44.1	44.6	42.4		41.1	41.6	40.3		40.5	37.3	34.6	30
32	44	43.5	40		44	44.4	42.7	40		42.6	42.7	41		40.3	41	40.9		38.9	38.1	38.2		37.3	36.2	33.7	32
34	40	41.1	38.6		40.7	41.1	40.7	38.7		39.3	39.9	39.2		37.4	37.9	38.6		36.5	35.5	35.9		34.6	34.5	32.5	34
36	35.9	38.2	36.7		37.7	38.1	38	36.9		36.5	37.1	36.8		35.1	35.2	35.8		34	33.6	33.6		32.2	32.3	31.2	36
38					34.8	35.1	35.4	35.1	33.2	33.7	34.2	34.3		32.9	32.5	33		31.5	31.7	31.3		29.7	30.1	29.9	38
40					32.1	32.4	32.9	33.2	30.7	31.1	31.6	32		30.7	30.1	30.6		29.3	29.8	29.2		27.5	28	28.5	40
45									26.8	26.4	26.7	27	25.8	26.2	26.5	26.6		24.9	25.3	25.5		23.3	23.7	24.1	45
50									23.2	23.2	23.4	23.6	22.3	22.6	23	23.2		21.4	21.7	22.1		20.5	20.4	20.6	50
55													19.4	19.7	20	20.2	18.5	18.5	18.8	19.1		18.2	18.1	18.1	55
60													17	17.2	17.4	17.6	16.5	16.3	16.4	16.7	15.9	16	16.3	16.3	60
65													14.8	15	15.1	15.2	14.6	14.7	14.7	14.8	14.2	14.4	14.4	14.5	65
70																	12.7	13	13.1	13.2	12.6	12.8	13	13	70
75																	11.4	11.6	11.7	11.8	11.1	11.3	11.6	11.6	75
80																	10.5	10.4	10.4	10.5	9.8	10	10.2	10.2	80
85																					8.8	8.9	9	9	85
90																						8.1			90

† 189.05128.00 001/05136.00 001/05144.00 001/05152.00 001/1 189.05272.00 001/05280.00 001/05288.00 001/05296.00 001/05304.00 001/05312.00 001/05320.00 001/05328.00 001/05336.00 001/05344.00 001/05352.00 001/05360.00 001/05368.00 001/05376.00 001/05384.00 001/05392.00 001/05400.00 001/05408.00 001/05416.00 001/05424.00 001/05432.00 001/05440.00 001/05448.00 001/05456.00 001/05464.00 001/05472.00 001/05480.00 001/05488.00 001/05496.00 001/05504.00 001/05512.00 001/05520.00 001/05528.00 001/05536.00 001/05544.00 001/05552.00 001/05560.00 001/05568.00 001/05576.00 001/05584.00 001/05592.00 001/05600.00 001/05608.00 001/05616.00 001/05624.00 001/05632.00 001/05640.00 001/05648.00 001/05656.00 001/05664.00 001/05672.00 001/05680.00 001/05688.00 001/05696.00 001/05704.00 001/05712.00 001/05720.00 001/05728.00 001/05736.00 001/05744.00 001/05752.00 001/05760.00 001/05768.00 001/05776.00 001/05784.00 001/05792.00 001/05800.00 001/05808.00 001/05816.00 001/05824.00 001/05832.00 001/05840.00 001/05848.00 001/05856.00 001/05864.00 001/05872.00 001/05880.00 001/05888.00 001/05896.00 001/05904.00 001/05912.00 001/05920.00 001/05928.00 001/05936.00 001/05944.00 001/05952.00 001/05960.00 001/05968.00 001/05976.00 001/05984.00 001/05992.00 001/05996.00

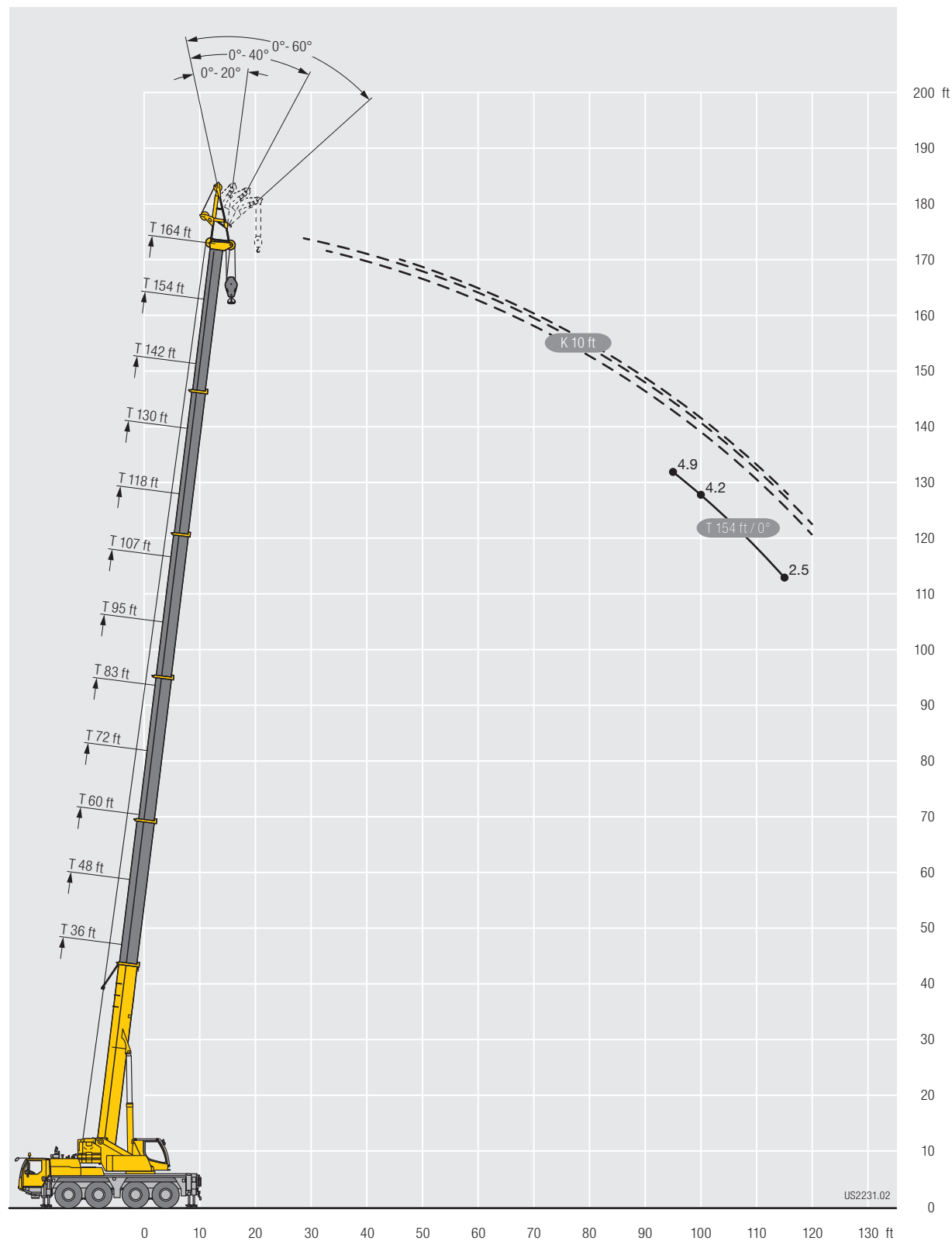
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	107 ft				118 ft				130 ft				142 ft				154 ft				164 ft				
	10 ft																								
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	20°	40°	60°		
18			38.3	38.7			29.5																18		
20			38.1	38.5			29.3																20		
22			37.8	37.6			28.7	27.7			23.4												22		
24			37.2	36.8			28.1	27.1			23.2												24		
26			36.5	35.9			27.5	26.4			22.9	22.8			18.4								26		
28			35.2	34.8			26.8	25.8			22.6	22.4			18.2	18.5			14.4	14.4		10.7	28		
30		33.5	33.9	33.6			26.2	25.1			22.3	22			18.1	18.3			14.2	14.4		10.6	30		
32		32.4	32.6	32.4		26.9	25.5	24.5		22.3	21.9	21.6			17.9	18			14.1	14.2		10.6	10.8	32	
34		30.9	31.1	31.1		26.3	24.8	23.9		22	21.5	21.1			17.7	17.8			14	14.1		10.6	10.7	34	
36		29.1	29.5	29.6		25.6	24.2	23.3		21.6	21.1	20.7			17.4	17.5			13.9	14		10.6	10.7	36	
38		27.3	27.9	28.2		25	23.5	22.7		21.2	20.6	20.2		17	17	17.2			13.7	13.8		10.5	10.6	38	
40		25.7	26.3	26.7		24.1	22.9	22.1		20.8	20.2	19.8		16.7	16.7	16.8			13.5	13.6		10.5	10.6	40	
45		22.7	22.1	22.5		21.3	21.4	20.9		19.6	19	18.7		15.9	15.8	15.9		12.9	12.8	12.9	10.2	10.2	10.3	45	
50		19.8	19.6	19.8		18.9	19	18.8		17.6	17.6	17.6		15	14.9	14.9		12.3	12.1	12.2	10	9.9	10	50	
55		17.3	17.5	17.6		16.6	16.7	16.7		15.5	15.8	16		14	14	14		11.7	11.5	11.5	9.7	9.6	9.6	55	
60		15.4	15.4	15.5		14.4	14.7	14.9		13.6	13.8	14.1		12.9	13	13		11.1	10.9	10.8	9.4	9.3	9.3	60	
65	13.2	13.5	13.7	13.9		12.6	12.9	13.1		12.5	12.4	12.5		11.4	11.7	11.9		10.5	10.4	10.3	9	8.9	8.9	65	
70	12.1	12.1	12.2	12.3		11.3	11.3	11.5		11.2	11.3	11.3		10.3	10.3	10.5		9.7	9.7	9.8	8.6	8.5	8.6	70	
75	10.9	11	11	11	10.4	10.3	10.3	10.4		9.9	10.1	10.2		9.3	9.3	9.5		8.8	8.9	9	8.1	8.2	8.2	75	
80	9.8	9.9	10	10	9.2	9.5	9.6	9.6	8.6	8.8	8.9	9.1		8.5	8.7	8.8		7.7	7.9	8	7.5	7.7	7.7	80	
85	8.8	8.8	8.9	9	8.2	8.4	8.6	8.7	7.9	8.1	8.1	8.1	7.3	7.5	7.7	7.8		6.7	6.9	7	6.7	6.8	7	85	
90	8	8.1	8.1	8.2	7.7	7.7	7.7	7.7	7.1	7.3	7.4	7.4	6.5	6.7	6.8	6.9		5.8	6	6.1	5.8	6	6.1	90	
95	7.1	7.3	7.3	7.4	7	7	7	7.1	6.3	6.5	6.6	6.7	5.7	5.9	6	6.1	4.9	5.1	5.2	5.3	5.1	5.2	5.3	95	
100					6.3	6.4	6.5	6.5	5.6	5.8	5.9	5.9	5	5.2	5.3	5.4	4.2	4.4	4.5	4.6	4.4	4.5	4.6	100	
105					5.6	5.7	5.8	5.8	5	5.1	5.2	5.3	4.4	4.5	4.7	4.7	3.6	3.8	3.9	4	3.8	3.9	4	105	
110					4.9	5	5.1	5.1	4.4	4.5	4.6	4.6	3.9	4	4.1	4.1	3	3.2	3.3	3.4	3.2	3.3	3.4	110	
115									3.8	4	4	4	3.3	3.5	3.6	3.6	2.5	2.7	2.8	2.9	2.7	2.8	2.9	115	
120									3.3	3.4	3.4	3.4	2.8	3	3	3.1					2.3	2.3		120	
125									2.8	2.9	2.9	2.9	2.4	2.5	2.5	2.5								125	
130													1.9	2	2.1	2								130	

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Lifting heights Hauteurs de levage

THK/TNZHK



Equipment

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 300 kW (408 h.p.), max. torque 1466 lbs-ft. Exhaust emissions acc. to 97/68/EG, EPA/CARB, ECE-R.96. Fuel reservoir: 108 gallons.
Transmission	ZF 12-speed gear box with automatic control system. Two-stage transfer case with lockable transfer differential.
Axles	Low maintenance carrier axles, all 4 axles steered. Axle 3 and 4 are equipped with planetary gears, all driven axles with transverse differential locks, axle 3 and 4 with longitudinal differential lock.
Suspension	All axles are mounted on hydropneumatic suspension – “Niveaumatik suspension” and are lockable hydraulically.
Tyres	8 tyres, size: 445/95 R 25.
Steering	ZF-servocom power steering, dual circuit system, with hydraulic servo system and auxiliary pump circuit. 1. and 2. axle mechanically, 3. and 4. axle hydromechanically speed regulated steered.
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 1, 2 and 4. Sustained-action brake: Exhaust retarder with additional Liebherr braking system.
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	Self-manufactured, cathoretic dip-primed weight-optimized and torsion resistant welded design of high-tensile structural steel; single-row ball bearing slewing ring, for continuous rotation.
Crane drive	Diesel-hydraulic with 1 axial variable displacement pump 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	Electrical control of drives by self-centering joysticks, armrest-integrated control elements, Liebherr system bus (LSB).
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 a 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 5 telescopic sections. All telescopic sections hydraulically extendable independent of one another. Rapid-cycle telescoping system Telematik. Boom length: 36 ft – 164 ft.
Counterweight	23,600 lbs basic counterweight.
Electrical system	Modern data bus technique, 24 Volt DC.

Operating modes

K	Double swing-away jib 31 ft – 52 ft Adjustment 0°, 20°, 40°, 60°
NZK	Hydraulically adjustable swing-away jib 31 ft – 52 ft Hydraulically adjustment 0° – 60°
HK	Mechanically adjustable assembly jib 10 ft Adjustment 0°, 20°, 40°, 60°
NZHK	Hydraulically adjustable assembly jib 10 ft Hydraulically adjustment 0° – 60°

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	8,400 lbs for a total counterweight of 32,000 lbs.
Tyres	8 tyres, size 525/80 R 25 (20.5 R 25).
Drive 8 x 6	Additional drive of the 1st axle.

Other items of equipment available on request.

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

Equipment

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 300 kW (408 ch), couple max. 1466 lbs-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG, EPA/CARB, ECE-R.96. Capacité du réservoir à carburant: 108 gallons.
Boîte de vitesse	Boîte de vitesses ZF à 12 rapports, mécanisme automatisé à commande. Boîte de transfert à 2 étages avec blocage de différentiel.
Essieux	Essieux nécessitant peu d'entretien, les 4 essieux sont directeurs. Les essieux 3 et 4 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal et l'essieu 3 et 4 avec différentiel longitudinal.
Suspension	Suspension hydropneumatique «Niveaumatik» - sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.
Pneumatiques	8 pneus de taille: 445/95 R 25.
Direction	Direction hydraulique ZF-servocom, à deux circuits, assistée hydrauliquement, avec pompe auxiliaire entraînée par essieu. 1er et 2ème essieu dirigés mécaniquement en fonction de la vitesse, 3ème et 4ème essieu dirigés électrohydrauliquement en fonction de la vitesse.
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 1,2 et 4. Frein à régime continu: Ralentisseur sur échappement avec système de freinage additionnel Liebherr.
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	Construction soudée résistante à la torsion et optimisée en poids réalisée par Liebherr en acier de construction à grain fin très rigide. Couronne d'orientation à 1 rangée de billes, permettant une rotation illimitée.
Entraînement	Diesel hydraulique avec 1 pompe double 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	Commande électrique des mécanismes par leviers de manoeuvre à centrage automatique, commandes de grue «grand confort» intégrées aux accoudoirs du siège, Liebherr système bus.
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, engrenage planétaire, frein d'arrêt commandé par ressort. Orientation de série commutable en circuit hydraulique ouvert ou fermé (freinage automatique ou au pied).
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 «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 5 éléments télescopiques. Tous les éléments télescopiques indépendamment les uns des autres. Système de télescopage séquentiel rapide Telematik. Longueur de flèche: 36 ft – 164 ft.
Contrepoids	Contrepoids principal de 23,600 lbs.
Installation électrique	Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts.

Modes de fonctionnement

K	Double fléchette pliante 31 ft – 52 ft Positionnement à 0°, 20°, 40°, 60°
NZK	Fléchette pliante à positionnement hydraulique 31 ft – 52 ft Positionnement hydraulique à 0° – 60°
HK	Fléchette de montage réglable mécaniquement 10 ft Positionnement à 0°, 20°, 40°, 60°
NZHK	Fléchette de montage réglable hydrauliquement 10 ft Positionnement hydraulique à 0° – 60°

Équipement 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 mouffé.
Contrepoids additionnel	8,400 lbs pour un contrepoids total de 32,000 lbs.
Pneumatiques	8 pneus. Taille: 525/80 R 25 (20.5 R 25).
Entraînement 8 x 6	Essieu 1 est entraîné additionnellement.

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		Driving speed Vitesse de translation
	Outriggers – free on tyres Calage – libre sur pneus		Driving speed – Onroad gear Vitesse de translation – Vitesse de route
	Axle Essieu		Driving speed – Crawl speed Vitesse de translation – Marche lente
	Radius Portée		Transmission Boîte de vitesse
	Boom length Longueur de la flèche		Gear Vitesse
	Boom position Position de la flèche		Hookblock / Capacity Moufle à crochet / Capacité de charge
	Counterweight Contrepoids		Hoist gear Treuil de levage
	Tyres Pneumatiques		Crane carrier Châssis porteur
	Slewing gear / Working area Mécanisme d'orientation / Plage de travail		Crane superstructure Partie tournante de la grue
	Standard Norme		Gradability Aptitude à gravir les pentes

Crane specific symbols/Symboles spécifiques à la grue

	Telescopic boom Flèche télescopique		Mechanically/hydraulically adjustable assembly jib Fléchette de montage réglable mécaniquement/ hydrauliquement
	Mechanical/hydraulic swing away jib Fléchette pliante mécanique/hydraulique		

Remarks referring to load charts

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. Lifting capacities are given in kips.
4. The weight of the hook blocks and hooks must be deducted from the lifting capacities.
5. Working radii are measured from the slewing centre.
6. The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
7. Lifting capacities above 117,950 lbs only with additional pulley block.
8. 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 relatives aux tableaux des charges

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. Les forces de levage sont données en kips.
4. Les poids des moufles et crochets doit être soustrait des charges indiquées.
5. Les portées sont calculées à partir de l'axe de rotation.
6. Les forces indiquées pour la flèche télescopique s'entendent fléchette dépliée déposée.
7. Forces de levage plus de 117,950 lbs seulement avec moufle additionnel.
8. 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.



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