Mobile Crane/Grue mobile
LTM 1110-5.1



GUAY

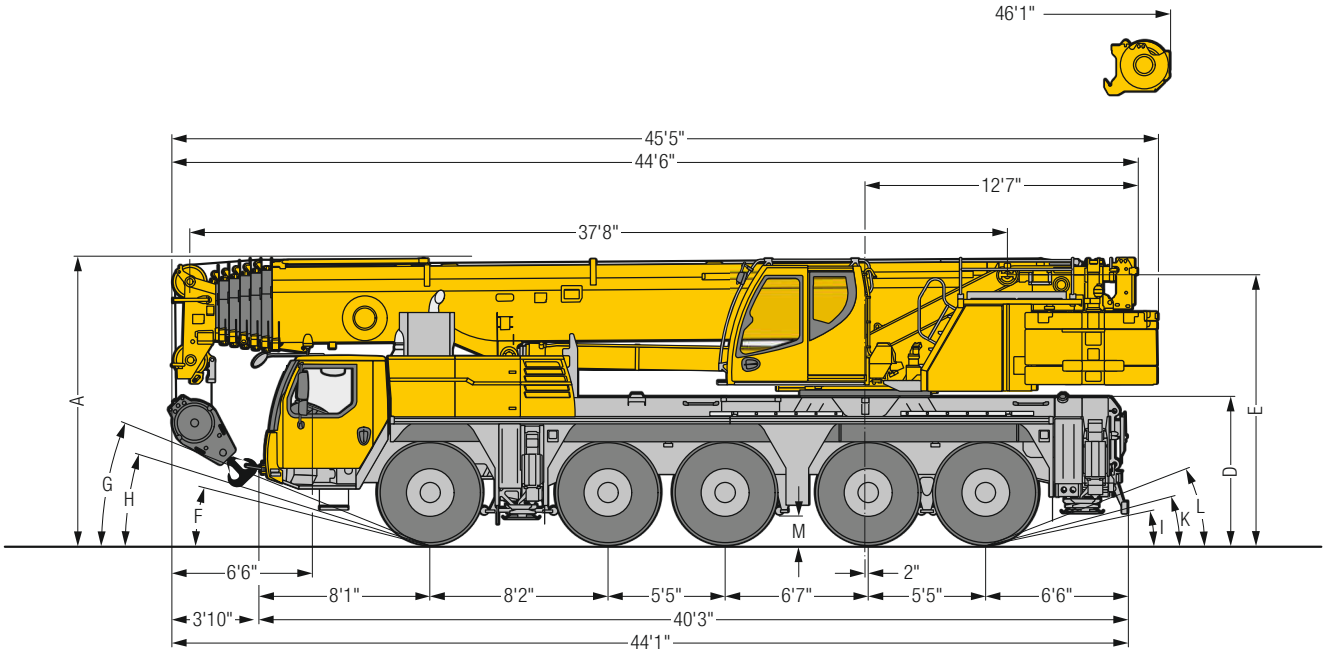
LIEBHERR

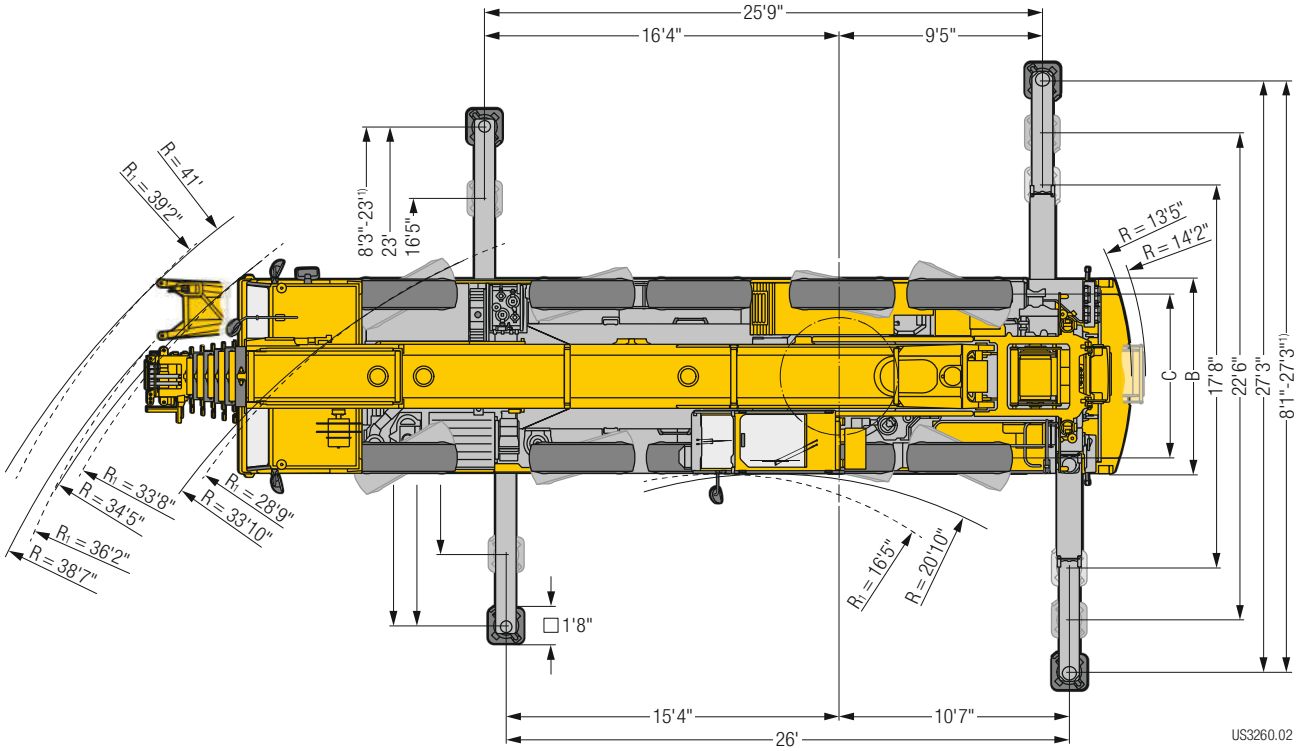
Table of content
Tables des matières

Technical Data / Caractéristiques technique

Dimensions / Encombrement	3
Mobile Crane / Grue mobile	4 – 5
Fuel saving and noise reduction / Economie de carburant et réduction du bruit	6 – 7
Hydraulic swing away jib / Fléchette pliante hydraulique	8
VarioBase® Plus	9
Weights / Poids Working speeds / Vitesses	10
Counterweight / Contrepoids	11
On-road driving / Déplacement sur route Jobsite driving / Déplacement sur chantier	12
Boom/jib combinations / Configurations de flèche	13
T	14 – 25
TK	26 – 32
TVK	33 – 46
TK	47 – 48
Equipment / Equipement	49 – 50
Description of symbols / Explication des symboles	51
Remarks / Remarques	52

Dimensions
Encombrement





R_1 = All-wheel steering · Direction toutes roues

1) only with VarioBase® · seulement avec VarioBase®

Dimensions/Encombrement

	A	A 5"*	B	C	D	E	F	G	H	I	K	L	M
445/95 R 25 (16.00 R 25)	13'1"	12'9"	9'	7'7"	6'9"	12'4"	14°	23°	17°	12°	15°	21°	385
525/80 R 25 (20.5 R 25)	13'1"	12'9"	9'4"	7'7"	6'9"	12'4"	14°	23°	17°	12°	15°	21°	385

* lowered · abaissé

Mobile Crane/Grue mobile
LTM 1110-5.1

GUAY

T **197 ft**

K NZK **35 ft – 62 ft**

V **2 x 23 ft**

K **9.5 ft**

63,900 lb

€COmode

€COdrive

TRAXON

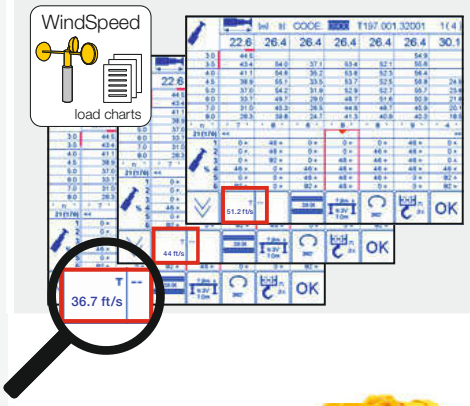
SingleEngine

VarioBase®

PLUS

WindSpeed

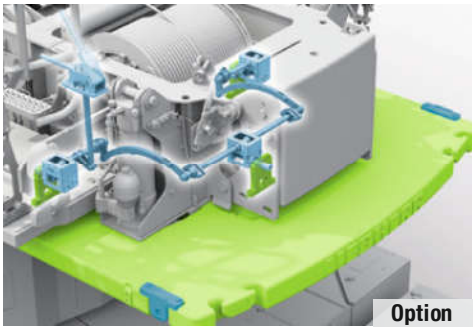
load charts

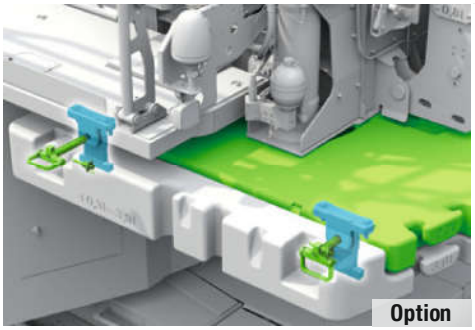


Increased flexibility and safety by using lifting capacity tables with different maximum wind speeds.

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




Option


Option

Counterweight / Contrepoids

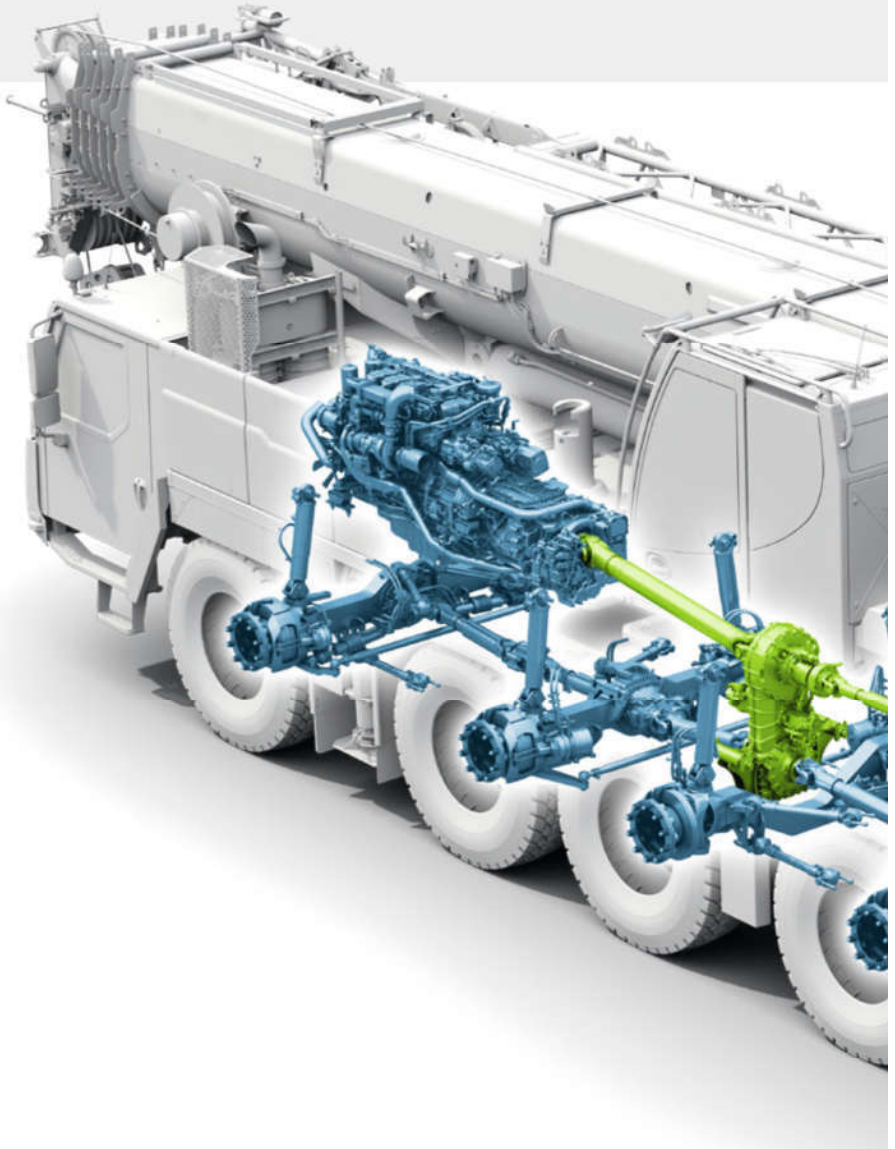
Fast changing system for various driving situations
Système de changement rapide pour les configurations de conduite les plus diverses



Fuel saving and noise reduction
Economie de carburant et réduction du bruit

GUAY

Liebherr-6-cylinder engine
400 kW / 544 h.p.



€COdrive

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

Innovative One-Engine-Concept

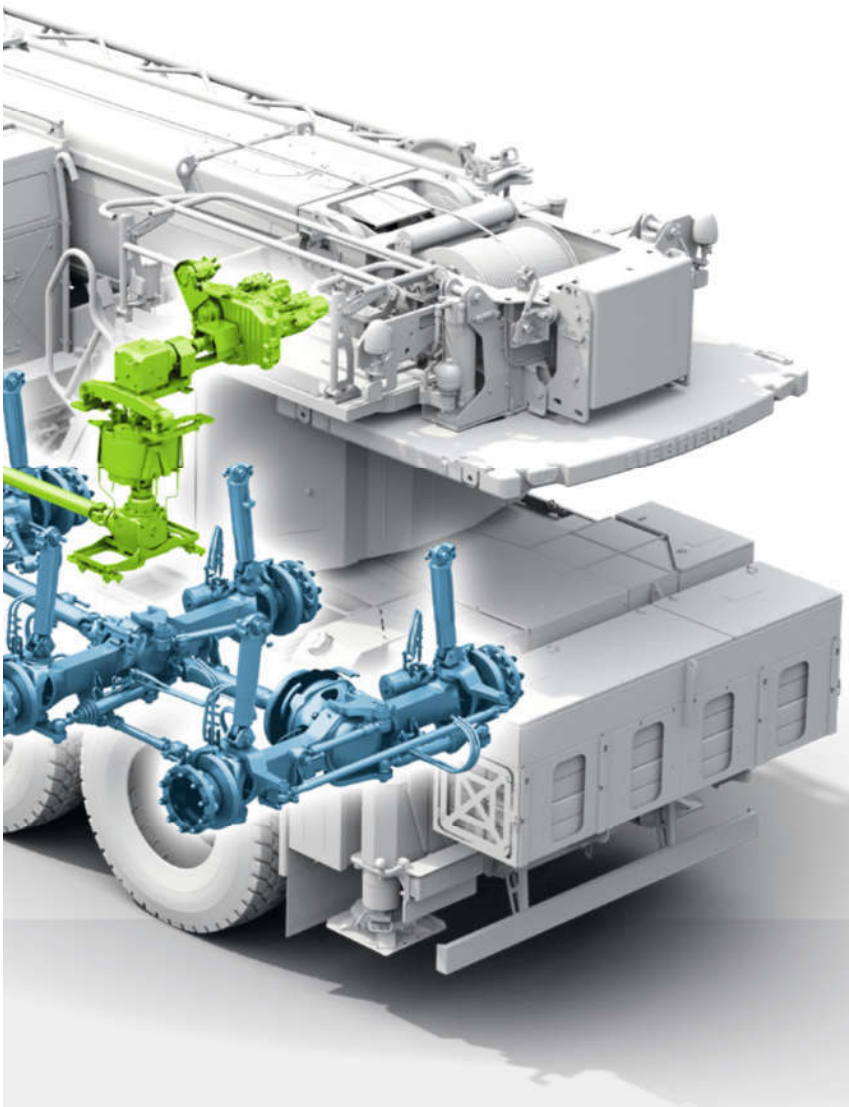
- Drive from chassis engine via a mechanical shaft with special high efficiency factor
- Increased effectiveness and reduced maintenance expenditure

Concept innovant à moteur unique

- Entraînement du moteur du châssis par le biais d'un arbre mécanique particulièrement performant
- Rentabilité accrue et entretien nettement réduit

ZF-TraXon
Automated shift gearbox,
12 forward gears, 2 reverse gears

ZF-TraXon
Boîte de vitesses automatisée,
12 vitesses avant, 2 vitesses arrière

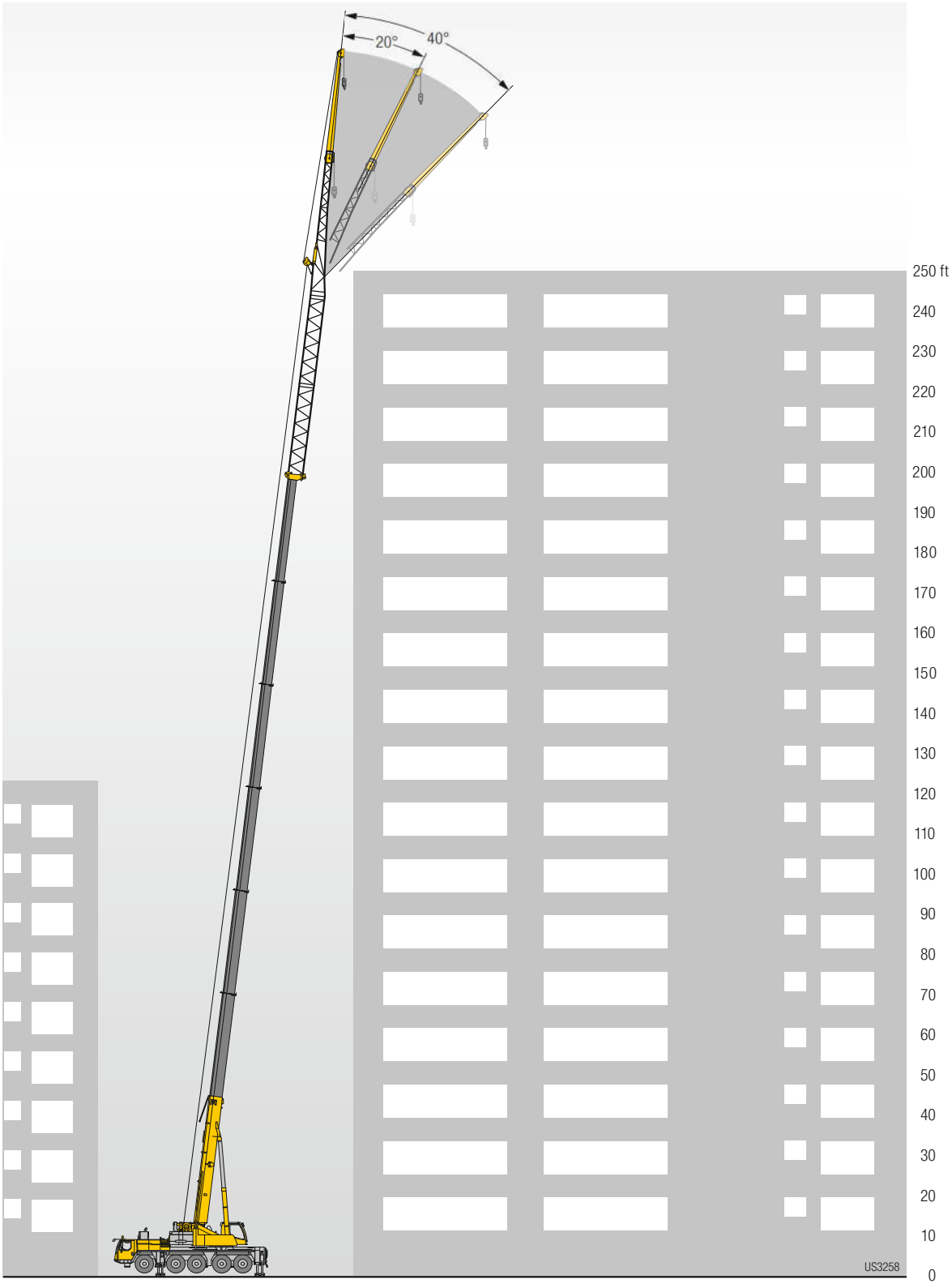


€COmode

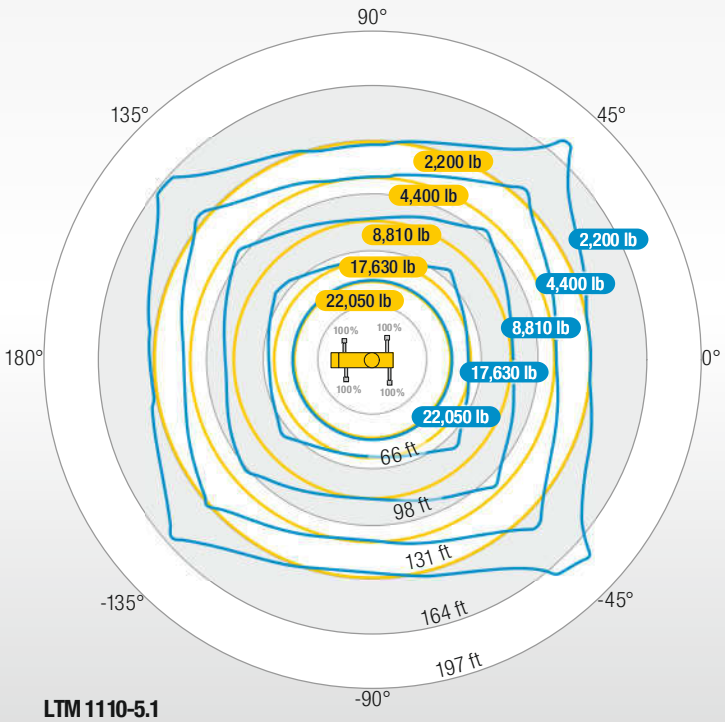
Reduced fuel consumption due to automatic disengaging of the complete pump drive at engine idling with automatic speed adjustment

Réduction de la consommation de carburant par désengagement automatique de l'entraînement complet de la pompe en mode ralenti avec adaptation automatique du régime

Hydraulic swing away jib
Fléchette pliante hydraulique



VarioBase® Plus



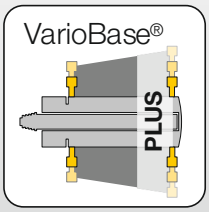
LTM 1110-5.1

184 ft	100% V 100%		29,500 lb
T		360°	

184 ft	100% V 100%		29,500 lb
T		VarioBase®	

Greater safety in constricted working conditions
Plus de sécurité dans les zones de travail étroites

Higher lifting capacity and larger working range
Une capacité plus importante et une zone de travail plus large

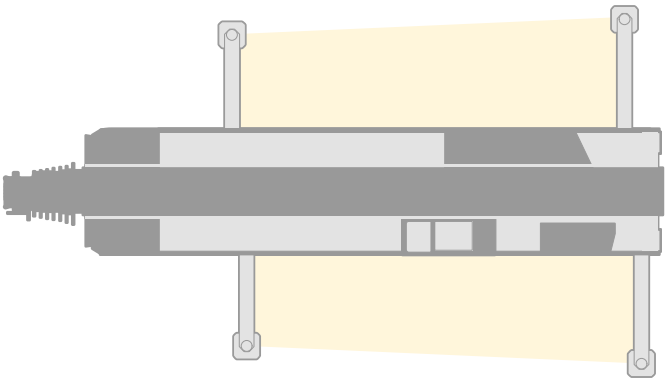


Greater safety

The maximum lifting capacities are calculated individually and precisely for every situation. This ensures safe working practice with any chosen support base.

Sécurité accrue

Les charges autorisées sont calculées individuellement et en fonction de la situation actuelle. Les opérations sont ainsi sécurisées avec chaque base de calage au choix.



Weights
Poids

Hook block/Moufles à crochet

181,200 lb	7	12	2,750 lb
167,300 lb	5	10	2,000 lb
109,550 lb	3	7	1,550 lb
48,500 lb	1	3	1,000 lb
16,300 lb	–	1	550 lb

Working speeds
Vitesses

Crane carrier/Châssis porteur

	mph min. мин.	mph max. макс.	%
445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	0.3	53	56,5 %

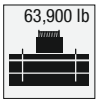
Theorical gradeability/Aptitude théorique en pente

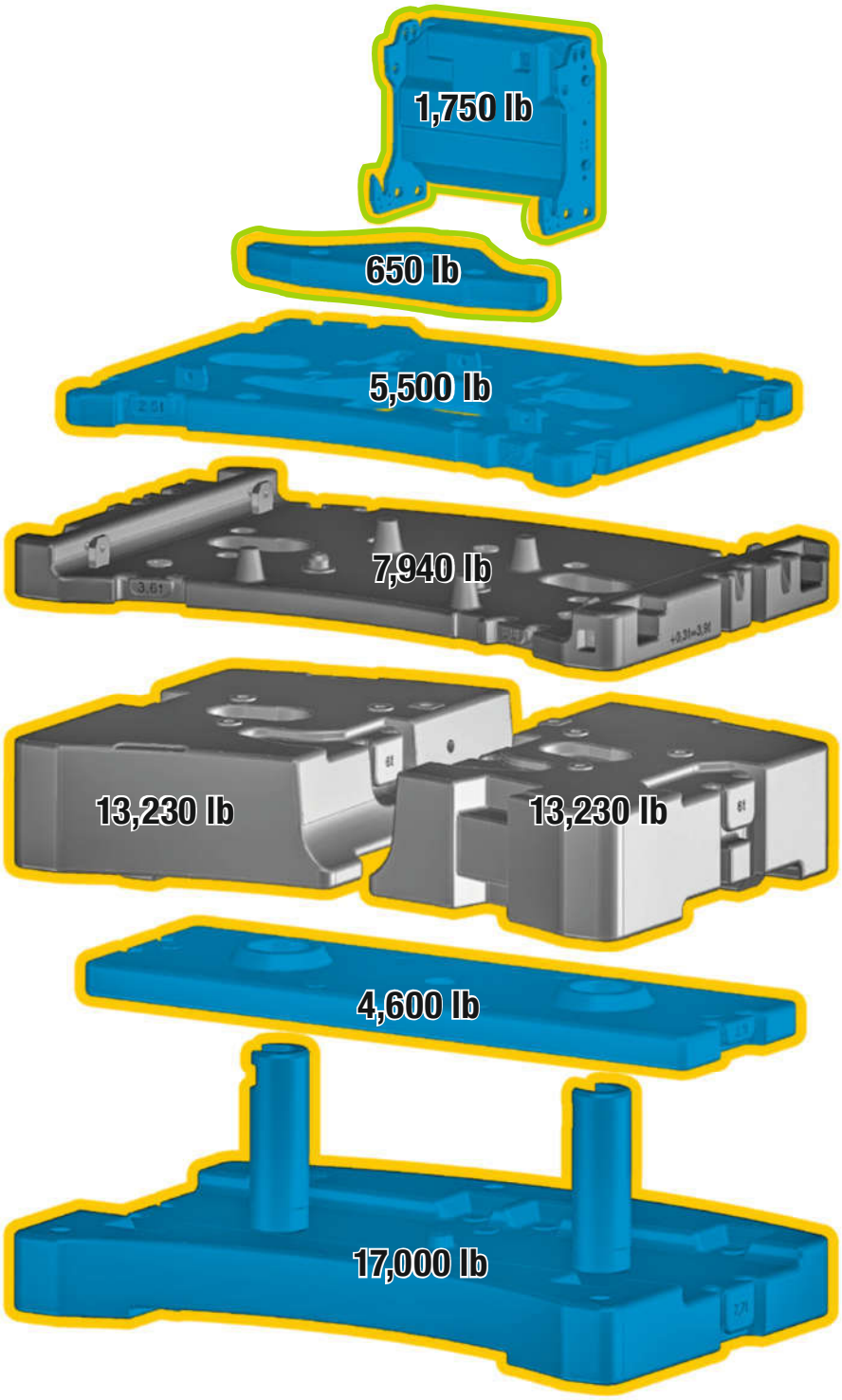
	12 / R2
	4 / R2

Crane superstructure/Partie tournante

	max	⌀		F
1	0 – 410 ft/min single line ft/min au brin simple	0.74"	820 ft	16,635 lb
2	0 – 410 ft/min single line ft/min au brin simple	0.74"	820 ft	16,635 lb
360°	0 – 1,5 rpm			
	approx. 45 seconds to reach 83° boom angle env. 45 s jusqu'à 83°			
	approx. 419 seconds for boom extension from 38 ft – 197 ft env. 419 s pour passer de 38 ft – 197 ft			

Counterweight
Contrepoids



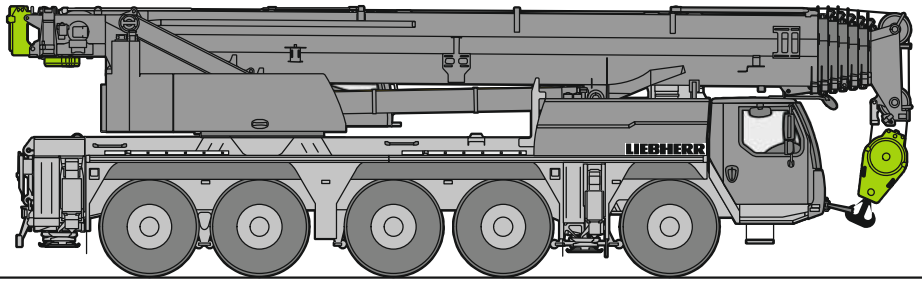


22,050 lb axle load
22,050 lb de charge par essieu

26,400 lb axle load
26,400 lb de charge par essieu

Technically transportable
Transport techniquement simplifié

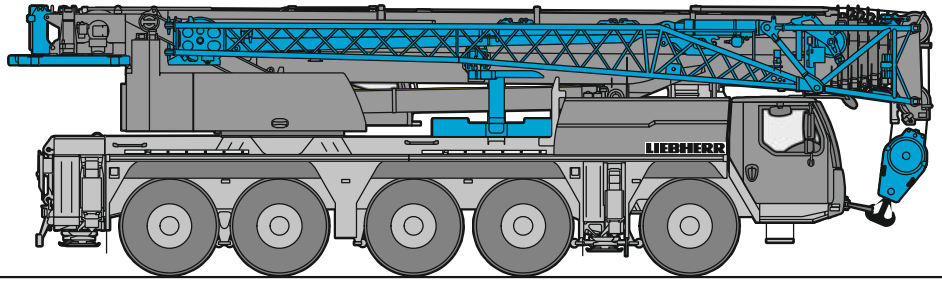
On-road driving
Déplacement sur route



2,400 lb

≤ 105,800 lb

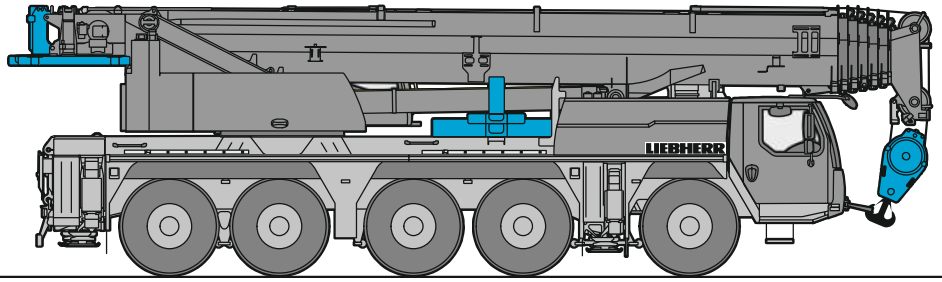
≤ 22,000 lb ≤ 22,000 lb ≤ 22,000 lb ≤ 22,000 lb ≤ 22,000 lb



24,900 lb

≤ 132,000 lb

≤ 26,400 lb ≤ 26,400 lb ≤ 26,400 lb ≤ 26,400 lb ≤ 26,400 lb

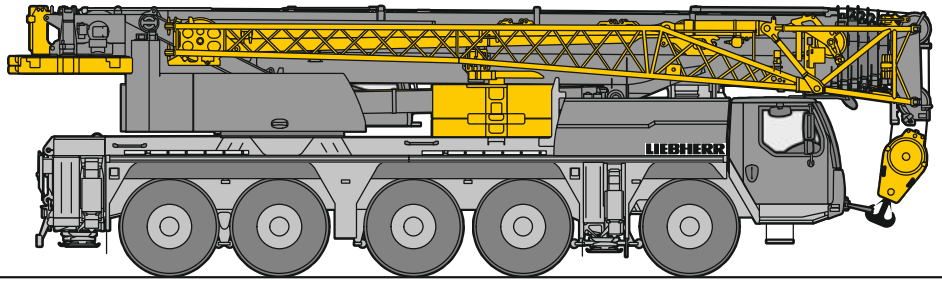


29,500 lb

≤ 132,000 lb

≤ 26,400 lb ≤ 26,400 lb ≤ 26,400 lb ≤ 26,400 lb ≤ 26,400 lb

Jobsite driving
Déplacement sur chantier



63,900 lb

≤ 176,500 lb

≤ 35,300 lb ≤ 35,300 lb ≤ 35,300 lb ≤ 35,300 lb ≤ 35,300 lb

US3271.02

Boom/jib combinations
Configurations de flèche

T Telescopic boom / Flèche télescopique

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

V Telescopic boom extension
Rallonge de flèche télescopique

K Assembly jib
Fléchette de montage



T	TK/TNZK	TVK/TVNZK	TK
14 – 25	26 – 32	33 – 46	47 – 48

S3259

Lifting capacities
Forces de levage



	38		50	62	74	87	99	111	123	127	135	139	148	154	160	168	172	178	182	184	191	193	195	197	
	*											ft													
10	220	153.2	150.2	148.5	146.5	128.6																			10
11	220	153.2	151	149.2	147.1	131.8																			11
12	192.8	153.2	151.4	150	147.5	132.8																			12
13	183.7	153.2	151.8	150.8	146.9	132.9	111.4																		13
14	177	153.2	152.2	151.7	146.9	132.6	111.9																		14
15	170.8	153.2	152.1	151.3	147.5	131.9	111.6	90.1																	15
16	164.8	149.6	148.5	147.6	145.7	131.4	111.3	90.4																	16
17	159.3	142.5	141.2	140.3	139.3	130.6	110.6	90.3	71																17
18	154.1	134.9	133.7	132.6	132.2	128.3	109.4	90	70.8																18
19	149.2	127.8	126.5	125.7	125.6	122.6	107.9	89.3	70.2	62															19
20	144.5	121.2	121.9	122.1	119.1	116.9	105.6	88.5	69.6	61.3	56.4														20
22	131.6	109	110.2	111.5	111.4	108.1	100.4	86.9	67.7	59.9	55.6	51.3	45												22
24	119.5	98.7	100.5	101.3	101.5	99.1	95.1	83.9	66	58.6	54.6	50.3	44.7	40.1											24
26	108.4	89.9	91.8	92.6	92.8	91.8	89	80.4	64.1	57.1	53.6	49.3	44.1	39.9	36.9										26
28	99.3	82.4	84.3	85.1	85.3	85.9	83.6	76.9	62.2	55.7	52.6	48.2	43.5	39.7	36.8	25.5	29								28
30	85.6	76	78.2	78.6	79.5	79.8	77.8	73.6	60.3	54	51.5	47.1	42.7	39.3	36.6	25.3	29.1	23.8	22.2	23.5					30
32			72.5	72.8	74.1	73.9	72.7	69.9	58.2	52	50.3	46	42	38.9	36.3	25.1	29	23.7	22.1	23.5	21.1	20.1	19.6	19	32
34			67.2	67.6	68.9	68.8	67.8	65.6	56.2	50.1	49.1	44.9	41.1	38.3	36	24.8	28.9	23.5	22	23.4	21	20	19.4	18.9	34
36			62.5	62.8	64.1	64.1	63.4	61.5	54.3	48.2	47.8	43.7	40.2	37.7	35.5	24.5	28.7	23.2	21.8	23.2	20.9	19.9	19.3	18.9	36
38			58.3	59.7	60	59.9	59.3	57.4	52.5	46.4	46.4	42.7	39.3	36.9	35	24.1	28.5	23	21.6	23.1	20.7	19.8	19.2	18.8	38
40			54.3	55.8	56.1	56	55.3	53.9	50.4	44.9	45.1	41.5	38.4	36	34.4	23.7	28.2	22.7	21.4	22.9	20.6	19.7	19.1	18.7	40
45				47.3	47.7	47.5	46.9	46.2	44.6	41.3	42	38.7	36	33.5	32.6	22.5	27.4	21.9	20.9	22.3	20.1	19.3	18.8	18.4	45
50				40.7	41.1	40.9	40.3	39.6	40.3	37.7	38.3	36	33.6	31.1	30.5	21.2	26.4	21	20.2	21.6	19.6	18.9	18.4	18	50
55				35.6	35.9	35.6	35	36	35.2	34.3	33.9	33	31.3	29.1	28.5	20	25.1	20.1	19.3	20.9	19	18.4	18	17.6	55
60					32	31.3	31.8	31.8	30.9	30.5	29.9	29.3	28.9	27	26.7	18.9	23.7	19.2	18.4	20	18.4	17.8	17.5	17.2	60
65					28.4	27.8	28.7	28.2	27.2	26.7	27.1	25.7	26.3	24.9	24.9	17.8	22.3	18.4	17.6	19.1	17.7	17.1	16.8	16.5	65
70						25.5	25.7	25.1	24.3	23.5	24.2	22.5	23.6	22.4	22.5	16.8	21	17.5	16.7	18.3	17	16.4	16.1	15.7	70
75						23.4	23.1	22.4	22.4	20.7	21.8	19.8	20.9	19.7	20.6	15.8	19.6	16.6	15.9	17.4	16.3	15.7	15.3	14.9	75
80							20.8	20	20.1	18.4	19.4	17.5	19.2	17.4	18.6	14.9	17.9	15.7	15	16.6	15.6	15	14.6	14.1	80
85							18.8	18.1	18.1	16.4	17.6	15.4	17.4	15.4	16.6	14.1	15.9	15	14.3	15.6	14.9	14.3	13.9	13.3	85
90							17.2	17.2	16.3	14.6	16.5	13.7	15.7	13.6	14.8	13.4	14.9	14.3	13.6	14.1	14	13.6	13.2	12.5	90
95								15.8	14.7	13.5	15	12.1	14.1	12.9	13.9	12.7	13.5	13.4	12.9	12.6	12.7	12.7	12.4	11.8	95
100								14.5	13.7	12.8	13.6	11.2	12.7	12.2	12.7	12	12.1	12.2	12.1	11.3	11.4	11.3	11.2	11	100
105									13	12.2	12.4	10.6	12	11.6	11.5	11.3	10.9	10.9	10.8	10.1	10.2	10.1	10	10	105
110									12	11.7	11.3	10.1	10.9	11	10.3	10.4	9.8	9.9	9.8	9.2	9.3	9.2	9.2	9.1	110
115									11.1	11.1	10.3	9.6	10	10.2	9.5	9.5	9	9.1	9	8.4	8.4	8.4	8.4	8.3	115
120										10.3	9.5	9.2	9.3	9.4	8.8	8.8	8.3	8.4	8.3	7.6	7.7	7.7	7.6	7.5	120
125											8.9	8.9	8.6	8.7	8.1	8.1	7.6	7.7	7.6	7	7.1	7	7	6.9	125
130												8.5	8	8.1	7.5	7.5	7	7.1	7	6.4	6.5	6.4	6.4	6.3	130
135													7.5	7.6	6.9	7	6.4	6.5	6.4	5.8	5.9	5.9	5.8	5.7	135
140													7.1	7.1	6.4	6.5	5.9	6	5.9	5.3	5.4	5.4	5.3	5.2	140
145														6.6	6	6	5.5	5.5	5.5	4.8	4.9	4.9	4.8	4.8	145
150															5.6	5.6	5.1	5.1	5	4.4	4.5	4.5	4.4	4.3	150
155																5.2	4.7	4.7	4.6	4	4.1	4.1	4	3.9	155
160																4.9	4.3	4.4	4.3	3.6	3.7	3.7	3.6	3.5	160
165																	2.8	4	3.9	3.2	3.3	3.3	3.3	3.2	165
170																		3.6	3.5	2.8	2.9	2.9	2.9	2.8	170
175																			3.2	2.4	2.5	2.5	2.5	2.4	175
180																					2.2	2.2	2	1.6	180

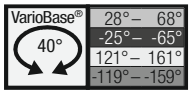
* ± 0° over rear · en arriere

t_ 197_001_19001_00_000 / 12001_00_000

Lifting capacities
Forces de levage





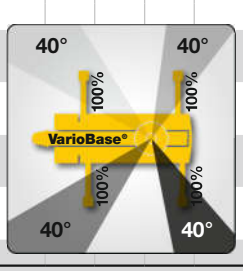






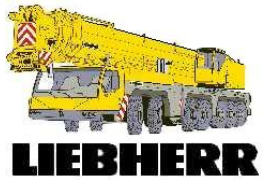


	38	50	62	74	87	99	111	123	127	135	139	148	154	160	168	172	178	182	184	191	193	195	197	
	ft																							
10	153.2	150.1	148.6	146.6	128.5																			10
11	153.2	151	149.3	147	131.8																			11
12	153.2	151.5	149.9	147.5	132.7																			12
13	153.2	151.7	150.8	147	132.9	111.3																		13
14	153.2	152.1	151.7	146.8	132.5	111.8																		14
15	153.2	152.6	151.2	147.5	131.8	111.6	90.2																	15
16	149.3	148.1	147	145.1	131.4	111.3	90.4																	16
17	142.4	141.1	139.8	137.8	130.5	110.7	90.2	71																17
18	135.6	134	133.4	131.4	128.3	109.3	89.9	70.8																18
19	128.5	127.6	126.5	125	122.1	107.8	89.5	70.1	62.2															19
20	121.9	123.2	123.7	118.8	116.6	105.6	88.4	69.4	61.3	56.4														20
22	109.1	110.7	112.2	110.9	107.4	100.3	87.1	67.7	60	55.6	51.4	45												22
24	99	100.8	101.6	101.4	98.5	94.8	84	65.9	58.6	54.7	50.5	44.8	40.1											24
26	89.9	91.9	92.8	92.8	91.7	89.3	80.2	64.2	57.1	53.6	49.4	44.1	39.9	36.8										26
28	82.2	84.2	85.3	85.3	85.3	82.7	76.7	62.2	55.6	52.7	48.3	43.4	39.7	36.8	25.6	29.1								28
30	75.8	78.5	78.7	80	79.4	76.9	73.4	60.2	54	51.6	47.2	42.8	39.2	36.6	25.4	29.1	23.8	22.3	23.6					30
32		72.5	72.8	74.1	73.9	71.9	69.2	58.4	52	50.3	46.1	41.9	38.8	36.4	25.1	28.9	23.6	22	23.6	21.2	20.1	19.6	19	32
34		67.5	67.7	69	69	66.8	64.6	56.2	50	48.9	44.8	41.2	38.4	35.9	24.9	28.9	23.6	22	23.4	20.9	20.1	19.4	19	34
36		62.8	63.1	64.6	64.4	62.4	60.2	54.5	48.1	47.8	43.7	40.3	37.7	35.5	24.5	28.7	23.1	21.8	23.1	20.9	19.8	19.4	19	36
38		58.4	59.7	60.2	60	58.6	56.7	52.5	46.5	46.5	42.8	39.2	36.8	35.1	24	28.4	22.9	21.6	23.1	20.7	19.8	19.2	18.7	38
40		54.5	55.6	56.2	56	55.3	53.1	50.9	45	45	41.4	38.4	35.9	34.4	23.8	28.2	22.7	21.4	22.9	20.5	19.6	19.2	18.7	40
45			47.8	48.3	48.3	47.4	45.9	44.5	41.2	42.1	38.6	35.9	33.5	32.6	22.5	27.3	21.8	20.9	22.3	20.1	19.4	18.7	18.3	45
50			41.2	41.9	41.7	41	39.7	40.1	37.7	38.4	35.9	33.7	31.1	30.4	21.2	26.5	20.9	20.3	21.6	19.6	19	18.5	18.1	50
55			36.4	36.8	36.6	35.9	36.2	35.3	34.4	33.7	33.1	31.3	29.1	28.4	20.1	25.1	20.1	19.4	20.9	19	18.3	17.9	17.6	55
60				33.1	32.4	32	32.2	31.3	30.4	30	29.5	28.9	26.9	26.7	19	23.6	19.2	18.5	20.1	18.3	17.9	17.4	17.2	60
65				29.5	28.9	29.3	28.7	27.8	27.1	27.3	26.2	26.2	25.1	24.9	17.9	22.3	18.3	17.6	19.2	17.6	17	16.8	16.5	65
70					26	26.7	25.8	24.9	24.3	24.9	23.4	24.5	22.9	23.1	16.8	20.9	17.4	16.8	18.3	17	16.3	16.1	15.7	70
75					24	24	23.4	22.7	21.6	22.3	20.9	21.6	20.5	20.7	15.7	19.6	16.8	15.9	17.4	16.3	15.7	15.4	15	75
80						21.8	20.9	20.9	19.4	20.3	19	19.6	18.5	19.6	15	18.5	15.7	15	16.5	15.7	15	14.6	14.1	80
85						20.1	19.2	19.2	17.6	18.3	17.2	18.3	16.8	17.9	14.1	17	15	14.3	15.7	15	14.3	13.9	13.2	85
90						18.5	17.6	17.6	16.1	16.8	15.4	16.8	15.2	16.3	13.4	15.2	14.3	13.7	15	14.1	13.7	13.2	12.6	90
95							16.5	16.1	14.8	15.7	14.1	15.4	13.9	15	12.8	14.6	13.7	13	13.9	13.4	13	12.3	11.7	95
100							15.7	15	13.4	14.8	12.8	14.1	12.6	13.7	11.9	13.2	13	12.3	12.8	12.8	12.6	11.7	11	100
105								13.7	12.3	13.7	11.7	13	11.7	12.6	11.5	12.1	12.3	11.7	11.5	11.7	11.7	11.2	10.6	105
110								12.8	11.7	12.8	10.6	12.1	11	11.7	10.8	11	11.2	11	10.6	10.6	10.6	10.6	10.1	110
115								11.9	11.2	11.9	9.7	11	10.4	10.6	10.1	10.1	10.4	10.1	9.7	9.7	9.7	9.7	9.5	115
120									11	11	9.3	10.4	10.1	9.7	9.7	9.5	9.5	9.5	8.8	9	9	9	8.8	120
125										10.1	8.8	9.9	9.7	9	9.3	8.6	8.8	8.8	8.2	8.4	8.4	8.2	8.2	125
130											8.6	9.3	9	8.4	8.6	7.9	8.2	8.2	7.5	7.7	7.7	7.5	7.5	130
135												8.6	8.4	7.7	7.9	7.5	7.5	7.5	6.8	7.1	7.1	7.1	6.8	135
140												7.9	7.9	7.3	7.3	6.8	7.1	7.1	6.4	6.4	6.4	6.4	6.4	140
145													7.3	6.8	6.8	6.4	6.4	6.4	5.7	6	6	5.7	5.7	145
150														6.4	6.4	6	6.2	6	5.3	5.3	5.3	5.3	5.3	150
155															6	5.3	5.5	5.5	4.9	4.9	4.9	4.9	4.6	155
160															5.5	4.9	5.1	5.1	4.4	4.4	4.4	4.4	4.4	160
165																2.9	4.6	4.6	4	4.2	4	4	4	165
170																	4.2	4.2	3.5	3.7	3.7	3.7	3.5	170
175																		3.7	3.3	3.3	3.3	3.3	2.9	175
180																				2.9	2.4	2	1.5	180



+6%

LTM_1110-5.1_Muli_0



EN 13000

telescopic boom

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

maximum permissible wind speed 36.7ft/s

GUAY

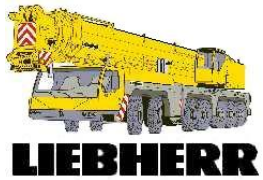
LTM_1110-5.1
T
100%V100%
0.0t
360°

radius	T-37.7	T-49.9	T-49.9	T-49.9	T-49.9	T-49.9	T-62.0	T-62.0	T-62.0	T-62.0	T-62.0	T-74.1	T-74.1	T-74.1	T-74.1	T-74.1	T-74.1	T-74.1	T-86.6	T-86.6	T-86.6	T-86.6	T-86.6
10	153.2	98.3	103.5	121.0	120.5	150.2	95.3	102.1	119.4	118.8	148.5	86.0	87.8	146.5	117.6	117.9	144.5	98.1				114.3	128.6
11	153.2	98.9	104.1	121.7	121.2	151.0	91.3	102.5	119.8	119.3	149.2	82.6	84.2	147.1	118.1	118.2	145.1	97.2	131.8	83.4	117.5	114.6	129.0
12	153.2	99.7	105.0	122.2	121.8	151.4	87.6	102.9	120.3	119.8	150.0	79.4	80.8	136.4	118.7	118.6	138.0	94.4	127.6	80.7	117.8	114.9	128.3
13	150.5	100.5	105.8	122.7	122.3	149.9	84.1	103.3	120.8	120.3	135.6	76.4	77.7	122.0	119.2	118.9	125.6	91.2	114.3	78.2	116.6	113.2	115.2
14	141.2	101.2	106.6	122.9	122.6	136.9	81.0	103.7	121.4	120.9	119.2	73.6	74.7	107.9	117.3	116.3	111.3	88.2	102.2	75.8	110.7	107.3	103.2
15	130.9	102.0	107.4	120.4	119.2	121.3	77.9	103.8	116.5	114.1	105.8	71.0	72.0	96.3	109.5	106.7	99.6	85.4	92.0	73.5	100.1	96.8	92.9
16	121.3	102.7	106.2	113.4	111.8	107.7	75.6	102.1	105.6	103.2	94.8	68.6	69.4	87.0	99.6	96.9	90.1	82.7	84.0	71.3	91.8	88.6	84.8
17	110.8	103.5	102.7	101.7	100.2	96.2	73.3	97.5	95.9	93.6	85.5	66.3	67.0	79.1	91.2	88.6	82.1	80.2	76.8	69.2	84.4	81.3	77.6
18	100.0	95.2	94.1	92.7	91.2	87.4	71.0	89.7	87.7	85.5	77.7	64.1	64.7	72.2	84.0	81.4	75.1	77.8	70.5	67.2	77.8	74.8	71.3
19	90.8	87.0	86.0	84.6	83.2	79.5	68.7	83.0	81.1	79.0	71.4	62.1	62.6	66.2	77.6	75.2	69.0	75.5	65.2	65.4	72.3	69.4	66.0
20	83.0	79.9	78.9	77.6	76.2	72.7	66.5	76.5	74.6	72.5	65.2	60.4	60.8	60.9	72.0	69.7	63.7	72.8	60.4	63.5	67.4	64.5	61.2
22	70.4	68.8	67.8	66.5	65.2	61.9	61.9	66.3	64.5	62.5	55.5	57.2	57.5	52.3	62.9	60.6	54.9	63.6	52.4	60.1	59.0	56.3	53.1
24	60.6	59.9	59.0	57.8	56.5	53.4	58.3	58.2	56.5	54.6	47.9	54.0	54.1	45.4	55.7	53.5	48.0	56.4	45.9	54.4	52.3	49.7	46.6
26	51.3	52.8	51.9	50.8	49.6	46.5	51.8	51.7	50.1	48.3	41.4	50.3	49.6	39.2	49.7	47.6	41.9	50.3	40.1	48.8	46.8	44.1	40.8
28	44.0	47.0	46.2	45.0	43.7	40.4	46.4	46.3	44.7	42.8	35.7	46.0	44.7	33.8	44.5	42.3	36.5	45.2	35.2	44.0	42.0	39.3	36.0
30	38.2	41.8	40.9	39.7	38.4	35.2	41.5	41.5	39.8	37.8	31.0	41.4	40.1	29.4	39.9	37.6	32.0	40.6	31.0	39.7	37.6	34.9	31.7
32		36.9	36.2	35.2	34.0	30.8	37.3	37.2	35.5	33.6	27.0	37.3	36.1	25.7	35.8	33.7	28.2	36.5	27.4	35.8	33.7	31.1	28.1
34		32.6	31.8	30.8	29.7	26.9	33.6	33.6	31.9	30.1	23.6	33.9	32.6	22.5	32.4	30.3	25.0	33.1	24.4	32.6	30.6	28.1	25.1
36		28.8	28.0	27.0	25.9	23.2	30.4	30.4	28.8	27.0	20.7	30.9	29.7	19.8	29.4	27.4	22.2	30.1	21.8	29.8	27.9	25.4	22.4
38		25.6	24.8	23.8	22.8	20.1	27.2	27.1	25.7	24.1	18.2	28.3	27.1	17.4	26.9	24.9	19.8	27.5	19.5	27.3	25.4	23.0	20.1
40		22.8	22.0	21.1	20.0	17.5	24.4	24.3	23.0	21.4	15.9	25.8	24.7	15.3	24.5	22.7	17.7	25.1	17.4	25.2	23.3	20.9	18.1
45							18.8	18.8	17.5	16.0	10.8	20.2	19.2	11.0	19.0	17.3	13.0	19.6	13.3	20.2	18.6	16.4	13.9
50							14.8	14.8	13.5	12.1	7.6	16.1	15.2	7.8	15.0	13.3	9.4	15.5	9.7	16.1	14.6	12.5	10.2
55							11.8	11.8	10.6	9.3	5.0	13.0	12.1	5.2	11.9	10.3	7.0	12.4	7.3	13.0	11.5	9.6	7.8
60												10.5	9.7	2.6	9.6	8.4	5.0	10.0	5.4	10.5	9.2	7.7	5.9
65												8.9	8.2		8.1	6.9	3.1	8.5	3.5	8.9	7.7	6.2	4.2
70																			1.7	7.5	6.4	4.9	2.3
75																				6.5	5.4	3.7	
0°	35.0	19.0	18.2	17.3	16.3	13.8	11.6	11.6	10.3	9.2	4.7	8.3	7.6		7.5	6.2	2.4	7.9		5.7	4.6	2.7	0.2
tele 1	0	0	0	0	0	46	0	0	0	0	92	0	0	92	0	0	46	0	46	0	0	0	46
tele 2	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	46	0	46	0	0	46	46
tele 3	0	0	0	0	46	0	0	0	0	46	0	0	0	0	0	46	46	0	92	0	46	46	46
tele 4	0	0	0	46	0	0	0	0	46	46	0	0	0	0	46	46	0	46	0	46	46	46	46
tele 5	0	0	46	0	0	0	0	46	46	0	0	46	92	0	46	46	0	0	0	46	46	46	0
tele 6	0	46	0	0	0	0	92	46	0	0	0	92	46	0	46	0	0	92	0	92	46	0	0
telescoped condition of boom in %																							

lifting capacities [kips], radius and boom [ft]

t_197_001_12076_00_000
13.01.2020
Peters

- subject to modification -



EN 13000

telescopic boom

GUAY

LTM_1110-5.1

T

100%V100%

0.0t

360°

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

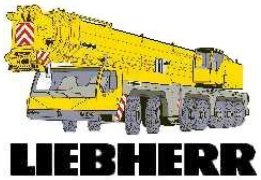
maximum permissible wind speed 36.7ft/s

radius	T-98.8	T-98.8	T-98.8	T-98.8	T-98.8	T-110.9	T-110.9	T-110.9	T-110.9	T-123.0	T-123.0	T-123.0	T-123.0	T-123.0	T-123.0	T-127.3	T-127.3	T-135.2	T-135.2	T-135.2	T-135.2	T-135.2	T-139.4	T-139.4
13				108.5	105.5																			
14	56.1	66.0	76.2	100.2	96.4																			
15	54.6	64.1	74.3	91.8	88.1				83.4															
16	53.1	62.3	72.4	83.9	80.4	49.6	53.0	71.8	76.8															
17	51.7	60.4	70.6	77.6	74.2	48.8	51.8	70.2	71.3						65.3									
18	50.3	58.6	68.8	71.9	68.6	47.8	50.6	68.6	66.1			61.7	56.2	63.6	60.8									
19	49.0	56.9	67.1	66.8	63.6	46.8	49.5	64.8	61.8	44.1	48.1	57.8	55.4	59.7	56.9	39.6	57.7							
20	47.7	55.3	64.2	62.5	59.3	45.9	48.3	60.6	57.6	43.5	47.3	54.2	54.5	56.1	53.2	39.0	54.3	51.8	50.9	46.0				
22	45.4	52.2	57.5	54.9	51.9	43.9	46.2	53.7	50.8	42.2	45.6	47.9	51.0	49.7	47.0	37.9	48.2	46.1	47.4	44.8	42.0	40.9	34.6	44.6
24	43.2	49.5	51.2	48.7	45.8	41.9	44.2	48.0	45.2	40.9	43.8	42.4	46.3	44.4	41.5	36.7	42.9	40.9	42.7	42.4	41.0	39.9	33.8	39.5
26	41.2	46.0	46.1	43.6	40.4	40.0	42.4	43.1	40.1	39.6	40.9	37.6	41.5	39.6	36.7	35.5	38.1	36.4	38.2	38.8	39.1	38.6	33.0	35.0
28	39.4	41.3	41.4	38.8	35.7	38.2	40.1	38.6	35.7	38.0	37.2	33.6	37.3	35.4	32.6	34.4	34.1	32.5	34.3	34.9	35.9	36.4	32.2	31.4
30	37.9	37.2	37.3	34.8	31.8	36.2	36.6	34.8	31.9	35.3	33.6	30.1	33.7	31.9	29.2	33.3	30.6	29.2	30.9	31.5	32.5	33.0	31.4	28.2
32	35.2	33.8	33.9	31.4	28.5	33.5	33.3	31.5	28.7	32.2	30.5	27.1	30.6	28.9	26.2	31.9	27.7	26.4	28.1	28.6	29.6	30.0	29.8	25.5
34	32.1	30.6	30.8	28.3	25.5	30.6	30.4	28.7	26.0	29.5	27.8	24.5	27.9	26.2	23.6	29.3	25.1	23.9	25.6	26.1	27.1	27.5	27.6	23.0
36	29.5	28.1	28.2	25.8	23.0	28.1	28.0	26.3	23.6	27.1	25.5	22.2	25.6	23.9	21.3	26.9	22.9	21.8	23.4	23.9	24.9	25.3	25.4	20.9
38	27.2	25.8	25.9	23.5	20.8	25.9	25.7	24.1	21.4	25.0	23.4	20.2	23.5	21.8	19.3	24.9	20.9	19.9	21.5	22.0	22.9	23.3	23.4	19.0
40	25.0	23.6	23.8	21.4	18.8	24.0	23.8	22.2	19.6	23.2	21.6	18.4	21.7	20.1	17.6	23.0	19.1	18.1	19.7	20.2	21.2	21.6	21.7	17.3
45	20.6	19.4	19.5	17.3	14.8	19.8	19.7	18.1	15.6	19.3	17.8	14.7	17.9	16.3	13.9	19.2	15.4	14.6	16.1	16.6	17.5	17.9	18.1	13.8
50	16.6	15.5	15.6	13.6	11.3	16.2	16.0	14.7	12.5	15.9	14.6	11.7	14.7	13.2	11.0	16.1	12.5	11.7	13.2	13.7	14.5	14.9	15.1	11.1
55	13.5	12.4	12.5	10.6	8.7	13.1	12.9	11.6	9.6	12.9	11.6	9.2	11.7	10.4	8.6	13.0	9.9	9.4	10.6	11.0	11.8	12.1	12.4	8.8
60	11.0	9.9	10.0	8.5	6.8	10.7	10.5	9.4	7.7	10.5	9.4	7.3	9.5	8.4	6.6	10.6	7.9	7.4	8.5	8.9	9.5	9.8	10.1	6.8
65	9.2	8.4	8.4	7.0	5.2	8.9	8.8	7.8	6.2	8.8	7.8	5.6	7.9	6.9	4.9	8.9	6.4	5.8	7.0	7.3	8.0	8.2	8.4	5.2
70	7.9	7.1	7.1	5.7	3.8	7.6	7.5	6.5	4.9	7.5	6.5	4.2	6.6	5.6	3.3	7.6	5.1	4.4	5.7	6.1	6.7	6.9	7.1	3.7
75	6.8	5.9	6.0	4.6	2.1	6.5	6.4	5.4	3.6	6.4	5.4	2.7	5.5	4.5	1.7	6.5	3.8	3.0	4.6	5.0	5.6	5.8	6.0	2.2
80	5.9	5.0	5.1	3.7		5.6	5.5	4.5	2.2	5.5	4.5		4.5	3.4		5.6	2.5	1.7	3.6	4.0	4.6	4.9	5.1	
85	5.0	4.2	4.3	2.7		4.7	4.6	3.6		4.6	3.6		3.7	2.2		4.7			2.4	3.1	3.8	4.0	4.2	
90	4.4	3.5	3.6	1.8		4.0	3.9	2.9		3.9	2.9		3.0			4.0				2.0	3.1	3.3	3.5	
95						3.4	3.3	1.9		3.3	2.0		2.1			3.4					2.2	2.6	2.9	
100						2.8	2.7			2.7						2.8						1.8	2.2	
105										2.0						2.2								
0°	4.2	3.2	3.4	1.7		2.4	2.3	0.9		0.9						0.7								
tele 1	0	0	0	0	46	0	0	0	46	0	0	46	0	46	92	0	46	92	46	46	0	0	0	92
tele 2	0	0	0	46	46	0	0	46	46	0	0	92	46	46	46	0	100	46	46	46	46	46	0	92
tele 3	0	0	46	46	46	0	46	46	46	46	92	46	46	46	46	46	0	46	46	46	92	46	92	0
tele 4	46	92	46	46	46	92	46	46	46	92	92	46	92	46	46	92	92	46	92	46	46	92	92	100
tele 5	92	92	46	46	46	92	92	46	46	92	92	46	46	46	46	100	0	46	46	92	92	92	100	0
tele 6	92	46	92	46	0	92	92	92	46	92	46	46	92	92	46	100	100	92	92	92	92	92	100	100
telescoped condition of boom in %																								

lifting capacities [kips], radius and boom [ft]

t_197_001_12076_00_000
13.01.2020
Peters

- subject to modification -



EN 13000

telescopic boom

GUAY

LTM_1110-5.1
T
100%V100%
0.0t
360°

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

maximum permissible wind speed 36.7ft/s

radius	T-147.6	T-147.6	T-147.6	T-147.6	T-147.6	T-147.6	T-153.9	T-153.9	T-159.8	T-159.8	T-159.8	T-159.8	T-168.3	T-171.9	T-171.9	T-171.9	T-178.1	T-182.4	T-184.1	T-190.6	T-192.6	T-194.9	T-196.8
22	43.4																						
24	38.6	39.7	37.5	38.7	37.8	34.3	29.8	37.3															
26	34.4	36.0	35.8	36.8	36.3	33.5	29.4	33.3	32.2	33.2	33.3	29.9											
28	30.8	32.4	32.8	33.2	33.6	32.7	29.0	29.9	28.9	29.8	31.2	29.6	25.5	26.8	28.1	27.5							
30	27.7	29.2	29.7	30.0	30.4	31.2	28.5	27.0	26.0	26.9	28.3	29.2	25.3	26.5	26.3	25.7	23.8	22.2	23.3				
32	25.1	26.6	27.0	27.4	27.8	28.7	27.7	24.4	23.5	24.4	25.8	27.0	25.1	24.9	23.9	23.4	23.4	22.1	22.9	21.1	20.1	19.6	19.0
34	22.7	24.2	24.6	25.0	25.4	26.3	26.1	22.1	21.3	22.2	23.5	24.7	23.9	23.1	21.8	21.3	22.7	21.5	21.1	20.5	19.9	19.4	18.9
36	20.7	22.2	22.5	22.9	23.3	24.2	24.1	20.1	19.3	20.2	21.5	22.7	22.4	21.2	19.9	19.4	20.9	20.4	19.2	18.7	18.4	18.1	17.8
38	18.8	20.3	20.7	21.0	21.4	22.3	22.3	18.3	17.6	18.5	19.8	20.9	20.6	19.5	18.3	17.8	19.2	18.7	17.6	17.2	17.0	16.7	16.3
40	17.2	18.6	19.0	19.4	19.7	20.5	20.6	16.7	16.0	16.9	18.2	19.3	19.0	18.0	16.8	16.3	17.7	17.2	16.1	15.7	15.6	15.3	15.0
45	13.7	15.1	15.5	15.8	16.2	17.0	17.1	13.4	12.8	13.6	14.8	15.9	15.8	14.7	13.6	13.1	14.5	14.1	13.0	12.8	12.7	12.4	12.2
50	11.1	12.5	12.8	13.1	13.5	14.3	14.4	10.7	10.2	11.0	12.2	13.2	13.1	12.1	11.0	10.5	11.9	11.6	10.6	10.4	10.3	10.1	9.9
55	8.8	10.1	10.4	10.6	10.9	11.7	11.8	8.5	8.0	8.8	10.0	10.8	10.9	10.0	8.9	8.4	9.9	9.6	8.6	8.5	8.4	8.2	8.0
60	6.9	8.2	8.4	8.6	8.9	9.5	9.6	6.6	6.1	7.0	8.1	8.9	8.9	8.2	7.1	6.6	8.2	7.9	7.0	6.9	6.8	6.6	6.4
65	5.3	6.6	6.9	7.1	7.3	7.9	8.1	5.0	4.6	5.4	6.6	7.4	7.4	6.7	5.6	5.1	6.7	6.4	5.5	5.5	5.4	5.3	5.0
70	3.9	5.3	5.6	5.8	6.1	6.6	6.8	3.6	2.9	4.0	5.2	6.1	6.1	5.4	4.3	3.7	5.4	5.2	4.3	4.3	4.2	4.0	3.9
75	2.3	4.1	4.4	4.7	5.0	5.5	5.7	2.1	1.6	2.5	4.1	5.0	5.0	4.3	2.9	2.3	4.3	4.1	3.0	3.1	3.0	2.8	2.5
80		2.9	3.3	3.7	4.0	4.6	4.8				2.9	4.0	4.1	3.1	1.7		3.3	3.1	1.8	1.8	1.8	1.7	
85		1.7	2.1	2.6	3.0	3.8	3.9				1.7	3.1	3.2	2.0			2.2	2.0					
90				1.6	2.0	3.0	3.2					2.0	2.1										
95						2.1	2.5																
100							1.6																
0°																							
tele 1	92	46	0	46	46	0	0	92	92	92	46	0	0	46	92	92	46	46	92	92	92	92	100
tele 2	92	92	92	46	46	46	46	100	92	92	92	92	92	92	92	92	92	100	92	92	92	100	100
tele 3	46	46	92	92	46	92	92	46	92	46	92	92	100	92	92	92	92	100	92	92	100	100	100
tele 4	46	92	92	46	92	92	100	100	92	92	46	92	100	92	46	92	100	100	92	100	100	100	100
tele 5	46	46	92	92	92	92	100	0	46	46	92	92	100	92	92	92	100	100	92	100	100	100	100
tele 6	92	92	46	92	92	92	100	100	46	92	92	92	100	92	92	46	100	100	92	100	100	100	100
telescoped condition of boom in %																							

lifting capacities [kips], radius and boom [ft]

t_197_001_12076_00_000
13.01.2020
Peters

- subject to modification -



EN 13000

telescopic boom

GUAY

LTM_1110-5.1

T

100%V100%

0.0t

360°

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

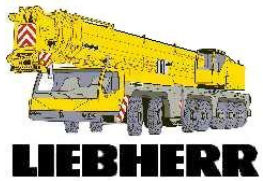
maximum permissible wind speed 36.7ft/s

radius	T-37.7 tel.TL	T-49.9 tel.TL	T-62.0 tel.TL	T-74.1 tel.TL	T-37.7 tel.TL	T-49.9 tel.TL	T-74.1 tel.TL	T-86.6 tel.TL	T-37.7 tel.TL	T-49.9 tel.TL	T-49.9 tel.TL	T-62.0 tel.TL	T-86.6 tel.TL	T-37.7 tel.TL	T-49.9 tel.TL	T-49.9 tel.TL	T-62.0 tel.TL	T-62.0 tel.TL	T-74.1 tel.TL	T-74.1 tel.TL	T-86.6 tel.TL	T-86.6 tel.TL	T-98.8 tel.TL
10	61.7	55.5	41.4	39.2	69.4	61.2	52.2		71.9	65.7	66.4	59.2	51.5	74.0	67.9	68.9	63.4	64.9	57.9	59.0	54.5	55.4	
11	64.0	55.4	40.8	38.5	69.8	61.0	51.7	50.9	72.2	65.6	66.3	58.8	51.0	74.4	67.8	68.8	61.1	64.6	57.5	58.7	54.0	55.1	
12	64.4	55.3	40.2	37.8	70.2	60.9	51.3	50.4	72.7	65.4	66.3	58.5	50.5	74.8	67.6	68.8	60.8	64.4	57.1	58.4	53.5	54.8	
13	65.0	55.2	39.6	37.2	70.8	60.8	50.9	50.0	73.2	65.3	66.3	58.2	50.0	75.4	67.5	68.8	60.5	64.2	56.7	58.2	53.1	54.5	49.6
14	65.6	55.2	39.1	36.5	71.4	60.7	50.6	49.5	73.8	65.2	66.3	57.9	49.6	76.0	67.4	68.8	60.2	64.1	56.3	57.9	52.6	54.2	49.1
15	66.3	55.1	38.6	35.9	72.1	60.7	50.2	49.1	74.5	65.2	66.3	57.6	49.2	77.9	67.3	68.8	59.9	63.9	55.9	57.7	52.2	53.9	48.6
16	67.1	55.1	38.1	35.3	72.9	60.7	49.8	48.6	75.3	65.2	66.3	57.3	48.8	79.6	67.3	68.8	59.6	63.8	55.5	57.4	51.8	53.6	48.0
17	68.1	55.1	37.7	34.7	73.8	60.7	49.5	47.4	76.2	65.2	66.3	57.1	47.5	80.5	67.3	68.8	59.4	63.6	55.2	57.2	51.3	53.3	46.2
18	69.1	55.1	37.2	34.2	74.8	60.7	49.2	45.5	78.2	65.2	66.3	56.9	45.6	81.6	67.3	68.8	59.2	61.6	54.8	57.0	50.9	53.1	45.1
19	70.3	55.1	36.8	33.6	76.0	60.7	48.8	45.2	80.6	65.2	66.3	56.7	45.3	82.8	67.3	68.8	58.9	61.3	54.5	56.8	50.5	52.8	44.7
20	71.7	55.1	36.4	33.1	78.2	60.7	48.5	44.8	80.5	65.2	66.3	56.5	44.9	81.5	67.3	68.8	58.7	61.2	54.2	56.7	50.2	52.6	44.3
22	70.4	55.1	35.6	30.5	70.4	60.7	46.2	44.2	70.4	64.1	64.9	56.2	44.3	70.4	66.0	67.0	58.4	61.2	53.6	56.3	49.4	52.1	43.6
24	60.6	52.8	34.9	29.2	60.6	56.5	45.2	43.4	60.6	57.8	57.8	54.6	43.7	60.6	59.0	59.0	56.5	56.5	51.9	52.7	48.3	49.7	42.9
26	51.3	46.5	34.3	28.5	51.3	49.6	41.5	40.1	51.3	50.8	50.8	48.3	40.8	51.3	51.9	51.9	50.1	50.1	47.6	47.6	44.1	44.1	40.4
28	44.0	40.4	33.5	27.7	44.0	43.7	36.5	35.2	44.0	45.0	45.0	42.8	36.0	44.0	46.2	46.2	44.7	44.7	42.3	42.3	39.3	39.3	35.7
30	38.2	35.2	31.0	27.0	38.2	38.4	32.0	31.0	38.2	39.7	39.7	37.8	31.7	38.2	40.9	40.9	39.8	39.8	37.6	37.6	34.9	34.9	31.8
32		30.8	27.0	25.7		34.0	28.2	27.4		35.2	35.2	33.6	28.1		36.2	36.2	35.5	35.5	33.7	33.7	31.1	31.1	28.5
34		26.9	23.6	22.5		29.7	25.0	24.4		30.8	30.8	30.1	25.1		31.8	31.8	31.9	31.9	30.3	30.3	28.1	28.1	25.5
36		23.2	20.7	19.8		25.9	22.2	21.8		27.0	27.0	27.0	22.4		28.0	28.0	28.8	28.8	27.4	27.4	25.4	25.4	23.0
38		20.1	18.2	17.4		22.8	19.8	19.5		23.8	23.8	24.1	20.1		24.8	24.8	25.7	25.7	24.9	24.9	23.0	23.0	20.8
40		17.5	15.9	15.3		20.0	17.7	17.4		21.1	21.1	21.4	18.1		22.0	22.0	23.0	23.0	22.7	22.7	20.9	20.9	18.8
45			10.8	11.0			13.0	13.3				16.0	13.9				17.5	17.5	17.3	17.3	16.4	16.4	14.8
50			7.6	7.8			9.4	9.7				12.1	10.2				13.5	13.5	13.3	13.3	12.5	12.5	11.3
55			5.0	5.2			7.0	7.3				9.3	7.8				10.6	10.6	10.3	10.3	9.6	9.6	8.7
60				2.6			5.0	5.4					5.9						8.4	8.4	7.7	7.7	6.8
65							3.1	3.5					4.2						6.9	6.9	6.2	6.2	5.2
70								1.7					2.3								4.9	4.9	3.8
75																					3.7	3.7	2.1
0°	35.0	13.8	4.7		35.0	16.3	2.4		35.0	17.3	17.3	9.2	0.2	35.0	18.2	18.2	10.3	10.3	6.2	6.2	2.7	2.7	
tele 1	0-0	0-46	46-92	0-92	0	0	0-46	0-46	0	0	0	0	0-46	0	0	0	0	0	0	0	0	0-0	0-46
tele 2	0	0	0	0-46	0	0	0-46	0-46	0	0	0	0	0-46	0	0	0	0	0	0	0-0	0-46	46	46
tele 3	0	0	0	0	0-0	0-46	46	46-92	0	0	0-0	0-46	46	0	0	0	0	0-0	0-46	46	46	46	46
tele 4	0	0	0	0	0	0	0	0	0-0	0-46	46	46	46	0	0	0-0	0-46	46	46	46	46	46	46
tele 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0-0	0-46	46	46	46	46	46	46	46	46
tele 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
telescoped condition of boom in %																							

lifting capacities [kips], radius and boom [ft]

t_197_001_12076_00_000
13.01.2020
Peters

- subject to modification -



EN 13000

telescopic boom

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

maximum permissible wind speed 36.7ft/s

GUAY

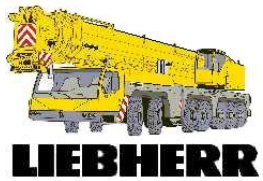
LTM_1110-5.1
T
100%V100%
0.0t
360°

radius	T-37.7 tel.TL	T-49.9 tel.TL	T-49.9 tel.TL	T-62.0 tel.TL	T-62.0 tel.TL	T-74.1 tel.TL	T-74.1 tel.TL	T-86.6 tel.TL	T-86.6 tel.TL	T-98.8 tel.TL	T-98.8 tel.TL	T-110.9 tel.TL	T-123.0 tel.TL	T-123.0 tel.TL	T-159.8 tel.TL	T-74.1 tel.TL	T-98.8 tel.TL	T-123.0 tel.TL	T-147.6 tel.TL	T-171.9 tel.TL	T-62.0 tel.TL	T-62.0 tel.TL	T-74.1 tel.TL
10	75.9	69.7	71.1	65.8	67.4	60.3	63.8									49.6					53.2	67.4	60.4
11	76.3	69.6	71.0	65.4	67.1	59.8	61.7	56.7	58.1							48.8					52.5	67.2	60.0
12	76.7	69.4	71.0	65.0	66.9	59.4	61.1	56.2	57.8							46.9					51.8	67.0	59.5
13	78.9	69.3	71.0	64.7	66.7	59.0	60.9	55.7	57.4	52.4	54.0					45.5					51.1	66.8	59.1
14	79.9	69.2	71.0	64.4	66.6	58.5	60.6	55.3	57.1	51.9	53.6					44.8	40.7				50.5	66.6	58.7
15	80.7	69.1	71.0	64.1	66.4	58.2	60.4	54.8	56.9	51.4	53.3	48.3				44.1	40.0				49.9	66.5	58.3
16	81.5	69.1	71.0	63.8	66.3	57.8	60.1	54.4	56.6	51.0	53.0	46.2				43.5	39.2				49.3	66.3	58.0
17	82.4	69.1	71.0	61.7	66.1	57.4	59.9	53.9	56.3	50.5	52.7	45.1	29.3			42.9	38.6				48.8	66.2	57.6
18	83.5	69.1	71.0	61.2	66.0	57.1	59.7	53.5	56.0	50.1	52.4	44.7	28.7	44.1		42.3	37.9				48.2	66.1	57.3
19	84.7	69.1	71.0	61.0	66.0	56.7	59.5	53.1	55.8	49.6	52.1	44.3	28.2	43.6		41.7	37.3	34.0			46.9	66.1	56.9
20	82.5	69.1	71.0	60.8	65.9	56.4	59.3	52.8	55.5	49.2	51.8	43.9	27.6	43.2		41.2	36.6	33.3			45.5	66.0	56.6
22	70.4	67.5	68.8	60.5	65.8	55.8	59.0	52.0	55.1	48.4	51.3	43.1	26.6	42.4		40.1	35.5	30.8			44.6	61.9	56.0
24	60.6	59.9	59.9	58.2	58.2	54.0	54.9	50.9	52.3	45.7	48.6	42.3	25.7	41.1		39.1	34.3	29.2	26.5		43.8	58.3	54.6
26	51.3	52.8	52.8	51.7	51.7	49.7	49.7	46.8	46.8	43.6	43.6	40.1	24.7	37.6	23.0	38.2	33.3	28.3	25.5		43.0	51.8	50.3
28	44.0	47.0	47.0	46.3	46.3	44.5	44.5	42.0	42.0	38.8	38.8	35.7	23.9	33.6	22.1	37.4	31.7	27.4	24.6	22.0	42.4	46.4	45.2
30	38.2	41.8	41.8	41.5	41.5	39.9	39.9	37.6	37.6	34.8	34.8	31.9	23.1	30.1	21.3	36.6	29.7	26.5	23.8	21.2	40.9	41.5	40.6
32		36.9	36.9	37.2	37.2	35.8	35.8	33.7	33.7	31.4	31.4	28.7	22.3	27.1	20.5	35.4	29.0	25.7	23.0	20.4	37.3	37.3	36.5
34		32.6	32.6	33.6	33.6	32.4	32.4	30.6	30.6	28.3	28.3	26.0	21.6	24.5	19.7	32.6	28.2	25.0	22.2	19.6	33.6	33.6	33.1
36		28.8	28.8	30.4	30.4	29.4	29.4	27.9	27.9	25.8	25.8	23.6	20.8	22.2	18.9	29.7	27.3	24.2	21.5	18.8	30.4	30.4	30.1
38		25.6	25.6	27.1	27.1	26.9	26.9	25.4	25.4	23.5	23.5	21.4	19.3	20.2	17.5	27.1	25.8	23.1	20.6	17.6	27.2	27.2	27.5
40		22.8	22.8	24.3	24.3	24.5	24.5	23.3	23.3	21.4	21.4	19.6	17.6	18.4	16.0	24.7	23.6	21.6	19.0	16.3	24.4	24.4	25.1
45				18.8	18.8	19.0	19.0	18.6	18.6	17.3	17.3	15.6	13.9	14.7	12.8	19.2	19.4	17.8	15.5	13.1	18.8	18.8	19.6
50				14.8	14.8	15.0	15.0	14.6	14.6	13.6	13.6	12.5	11.0	11.7	10.2	15.2	15.5	14.6	12.8	10.5	14.8	14.8	15.5
55				11.8	11.8	11.9	11.9	11.5	11.5	10.6	10.6	9.6	8.6	9.2	8.0	12.1	12.4	11.6	10.4	8.4	11.8	11.8	12.4
60						9.6	9.6	9.2	9.2	8.5	8.5	7.7	6.6	7.3	6.1	9.7	9.9	9.4	8.4	6.6			10.0
65						8.1	8.1	7.7	7.7	7.0	7.0	6.2	4.9	5.6	4.6	8.2	8.4	7.8	6.9	5.1			8.5
70								6.4	6.4	5.7	5.7	4.9	3.3	4.2	2.9		7.1	6.5	5.6	3.7			
75								5.4	5.4	4.6	4.6	3.6	1.7	2.7	1.6		5.9	5.4	4.4	2.3			
80										3.7	3.7	2.2					5.0	4.5	3.3				
85										2.7	2.7						4.2	3.6	2.1				
90										1.8	1.8						3.5	2.9					
95																		2.0					
0°	35.0	19.0	19.0	11.6	11.6	7.5	7.5	4.6	4.6	1.7	1.7					7.6	3.2				11.6	11.6	7.9
tele 1	0	0	0	0	0	0	0	0	0	0	0-0	0-46	46-92	0-46	0-92	0	0	0	0	0-92	0	0	0
tele 2	0	0	0	0	0	0	0	0	0-0	0-46	46	46	46	46-92	0-92	0	0	0	0-92	92	0	0	0
tele 3	0	0	0	0	0	0	0-0	0-46	46	46	46	46	46	46	0-92	0	0	0-92	92	92	0	0	0
tele 4	0	0	0	0	0-0	0-46	46	46	46	46	46	46	46	46	46-92	0	0-92	92	92	92	0	0-0	0-46
tele 5	0	0	0-0	0-46	46	46	46	46	46	46	46	46	46	46	46	46-92	92	92	92	92	0	0	0
tele 6	0-0	0-46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46-92	92	92
telescoped condition of boom in %																							

lifting capacities [kips], radius and boom [ft]

- subject to modification -

index



EN 13000

telescopic boom

GUAY

LTM_1110-5.1

T

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

100%V100%

0lb counterweight

0.0t

360°

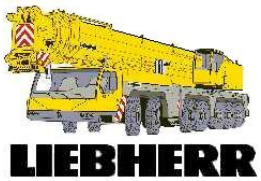
maximum permissible wind speed 36.7ft/s

radius	T-62.0 tel.TL	T-74.1 tel.TL	T-74.1 tel.TL	T-86.6 tel.TL	T-86.6 tel.TL	T-98.8 tel.TL	T-98.8 tel.TL	T-110.9 tel.TL	T-110.9 tel.TL	T-123.0 tel.TL	T-135.2 tel.TL	T-147.6 tel.TL	T-123.0 tel.TL	T-123.0 tel.TL	T-135.2 tel.TL	T-147.6 tel.TL	T-159.8 tel.TL	T-98.8 tel.TL	T-98.8 tel.TL	T-110.9 tel.TL	T-135.2 tel.TL	T-135.2 tel.TL	T-135.2 tel.TL	T-147.6 tel.TL
10	69.5	64.5	66.5																					
11	69.3	64.0	66.2	59.1	61.0																			
12	69.0	62.3	65.9	58.6	60.6																			
13	68.8	61.1	65.6	58.1	60.3																			
14	68.7	60.7	65.3	57.7	60.0	54.7	56.8											56.1	56.1					
15	68.5	60.3	65.0	57.2	59.7	54.2	56.4											54.6	54.6					
16	68.3	59.9	64.8	56.8	59.4	53.7	56.1	50.7	52.9									53.1	53.1	52.9				
17	68.2	59.5	64.5	56.3	59.1	53.3	55.8	50.2	52.6									51.7	51.7	51.8				
18	68.1	59.2	63.6	55.9	58.8	52.8	55.5	49.8	52.2	44.4			49.3	51.9				50.3	50.3	50.6				
19	67.3	58.8	62.1	55.5	58.6	52.4	55.2	49.3	51.9	43.9			48.8	51.6				49.0	49.0	49.5				
20	66.3	58.5	60.4	55.1	58.3	52.0	54.9	48.9	51.6	43.5	27.4		48.3	51.2	43.2			47.7	47.7	48.3	43.4			
22	61.9	57.1	57.2	54.4	57.9	51.1	54.4	48.0	51.0	42.7	26.4	25.7	45.9	50.1	42.3			45.4	45.4	46.2	42.6	42.0	42.0	
24	58.3	54.0	54.0	53.1	54.4	50.4	51.1	45.0	48.0	42.0	25.4	24.7	44.5	46.3	41.0	39.5		43.2	43.2	44.2	41.4	41.0	41.0	38.7
26	51.8	50.3	50.3	48.8	48.8	46.1	46.1	43.1	43.1	39.3	24.5	23.8	41.4	41.5	38.2	36.0	23.4	41.2	41.2	42.4	38.8	39.1	39.1	36.8
28	46.4	46.0	46.0	44.0	44.0	41.4	41.4	38.6	38.6	35.4	23.6	22.9	37.3	37.3	34.3	32.4	22.5	39.4	39.4	40.1	34.9	35.9	35.9	33.2
30	41.5	41.4	41.4	39.7	39.7	37.3	37.3	34.8	34.8	31.9	22.8	22.1	33.7	33.7	30.9	29.2	21.6	37.9	37.9	36.6	31.5	32.5	32.5	30.0
32	37.3	37.3	37.3	35.8	35.8	33.9	33.9	31.5	31.5	28.9	22.1	21.3	30.6	30.6	28.1	26.6	20.9	35.2	35.2	33.3	28.6	29.6	29.6	27.4
34	33.6	33.9	33.9	32.6	32.6	30.8	30.8	28.7	28.7	26.2	21.3	20.6	27.9	27.9	25.6	24.2	20.1	32.1	32.1	30.4	26.1	27.1	27.1	25.0
36	30.4	30.9	30.9	29.8	29.8	28.2	28.2	26.3	26.3	23.9	20.6	19.8	25.6	25.6	23.4	22.2	19.3	29.5	29.5	28.0	23.9	24.9	24.9	22.9
38	27.2	28.3	28.3	27.3	27.3	25.9	25.9	24.1	24.1	21.8	19.6	18.8	23.5	23.5	21.5	20.3	18.4	27.2	27.2	25.7	22.0	22.9	22.9	21.0
40	24.4	25.8	25.8	25.2	25.2	23.8	23.8	22.2	22.2	20.1	18.1	17.2	21.7	21.7	19.7	18.6	16.9	25.0	25.0	23.8	20.2	21.2	21.2	19.4
45	18.8	20.2	20.2	20.2	20.2	19.5	19.5	18.1	18.1	16.3	14.6	13.7	17.9	17.9	16.1	15.1	13.6	20.6	20.6	19.7	16.6	17.5	17.5	15.8
50	14.8	16.1	16.1	16.1	16.1	15.6	15.6	14.7	14.7	13.2	11.7	11.1	14.7	14.7	13.2	12.5	11.0	16.6	16.6	16.0	13.7	14.5	14.5	13.1
55	11.8	13.0	13.0	13.0	13.0	12.5	12.5	11.6	11.6	10.4	9.4	8.8	11.7	11.7	10.6	10.1	8.8	13.5	13.5	12.9	11.0	11.8	11.8	10.6
60		10.5	10.5	10.5	10.5	10.0	10.0	9.4	9.4	8.4	7.4	6.9	9.5	9.5	8.5	8.2	7.0	11.0	11.0	10.5	8.9	9.5	9.5	8.6
65		8.9	8.9	8.9	8.9	8.4	8.4	7.8	7.8	6.9	5.8	5.3	7.9	7.9	7.0	6.6	5.4	9.2	9.2	8.8	7.3	8.0	8.0	7.1
70				7.5	7.5	7.1	7.1	6.5	6.5	5.6	4.4	3.9	6.6	6.6	5.7	5.3	4.0	7.9	7.9	7.5	6.1	6.7	6.7	5.8
75				6.5	6.5	6.0	6.0	5.4	5.4	4.5	3.0	2.3	5.5	5.5	4.6	4.1	2.5	6.8	6.8	6.4	5.0	5.6	5.6	4.7
80						5.1	5.1	4.5	4.5	3.4	1.7		4.5	4.5	3.6	2.9		5.9	5.9	5.5	4.0	4.6	4.6	3.7
85						4.3	4.3	3.6	3.6	2.2			3.7	3.7	2.4	1.7		5.0	5.0	4.6	3.1	3.8	3.8	2.6
90						3.6	3.6	2.9	2.9				3.0	3.0				4.4	4.4	3.9	2.0	3.1	3.1	1.6
95								1.9	1.9				2.1	2.1						3.3		2.2	2.2	
100																				2.7				
0°	11.6	8.3	8.3	5.7	5.7	3.4	3.4	0.9	0.9									4.2	4.2	2.3				
tele 1	0	0	0	0	0	0	0	0	0-0	0-46	46-92	0-92	0	0-0	0-46	0-46	46-92	0	0	0	0-46	0	0-0	0-46
tele 2	0	0	0	0	0	0	0-0	0-46	46	46	46	46-92	0-46	46	46	46-92	92	0	0	0	0-46	0-46	46	46
tele 3	0	0	0	0	0-0	0-46	46	46	46	46	46	46	0-46	46	46	46	46	0	0-0	0-46	46	46-92	92	92
tele 4	0	0	0-0	0-46	46	46	46	46	46	46	46	46	46-92	92	92	92	92	0-46	46	46	46	46	46	46
tele 5	0-0	0-46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46-92	92	92	92	92	92	92
tele 6	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
telescoped condition of boom in %																								

lifting capacities [kips], radius and boom [ft]

t_197_001_12076_00_000
13.01.2020
Peters

- subject to modification -



EN 13000

telescopic boom

GUAY

LTM_1110-5.1
T
100%V100%
0.0t
360°

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

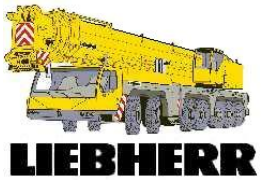
maximum permissible wind speed 36.7ft/s

radius	T-159.8 tel.TL	T-171.9 tel.TL	T-110.9 tel.TL	T-110.9 tel.TL	T-123.0 tel.TL	T-123.0 tel.TL	T-135.2 tel.TL	T-135.2 tel.TL	T-147.6 tel.TL	T-147.6 tel.TL	T-159.8 tel.TL	T-159.8 tel.TL	T-171.9 tel.TL	T-184.1 tel.TL	T-127.3 tel.TL	T-139.4 tel.TL	T-153.9 tel.TL	T-115.2 tel.TL	T-127.3 tel.TL	T-139.4 tel.TL	T-141.7 tel.TL	T-153.9 tel.TL	T-178.1 tel.TL	T-190.6 tel.TL
16			38.5	49.6																				
17			37.8	48.8														43.5						
18			37.1	47.8														42.7						
19			36.5	46.8	44.1	44.1									43.7			42.0	39.6					
20			35.8	45.9	43.5	43.5									43.3			41.2	39.0					
22			34.6	43.9	42.2	42.2	40.9	40.9							42.5	26.0		39.6	37.9	29.7	33.3			
24			33.5	41.9	40.9	40.9	39.9	39.9	37.8	34.3					41.2	25.0	24.4	38.0	36.7	28.7	32.5	29.8		
26	33.3		32.1	40.0	39.6	39.6	38.6	38.6	36.3	33.5	25.4	29.9			38.1	24.1	23.4	36.5	35.5	27.7	31.7	29.4		
28	31.2	22.2	29.7	38.2	38.0	38.0	36.4	36.4	33.6	32.7	24.5	29.6	26.8		34.1	23.2	22.6	35.1	34.4	26.8	30.8	29.0		
30	28.3	21.4	28.9	36.2	35.3	35.3	33.0	33.0	30.4	31.2	23.7	29.2	26.5	21.0	30.6	22.4	21.7	33.8	33.3	26.0	30.0	28.5	23.8	
32	25.8	20.6	28.1	33.5	32.2	32.2	30.0	30.0	27.8	28.7	22.9	27.0	24.9	20.2	27.7	21.6	20.9	32.4	31.9	25.2	28.9	27.7	23.4	20.1
34	23.5	19.9	27.3	30.6	29.5	29.5	27.5	27.5	25.4	26.3	22.1	24.7	23.1	19.5	25.1	20.8	20.2	30.4	29.3	24.4	27.5	26.1	22.7	19.3
36	21.5	19.1	26.5	28.1	27.1	27.1	25.3	25.3	23.3	24.2	21.4	22.7	21.2	18.6	22.9	20.1	19.5	28.1	26.9	23.7	25.2	24.1	20.9	18.5
38	19.8	18.1	25.6	25.9	25.0	25.0	23.3	23.3	21.4	22.3	20.7	20.9	19.5	17.5	20.9	19.0	18.3	26.0	24.9	22.9	23.3	22.3	19.2	17.2
40	18.2	16.8	24.0	24.0	23.2	23.2	21.6	21.6	19.7	20.5	19.3	19.3	18.0	16.1	19.1	17.3	16.7	24.0	23.0	21.7	21.6	20.6	17.7	15.7
45	14.8	13.6	19.8	19.8	19.3	19.3	17.9	17.9	16.2	17.0	15.9	15.9	14.7	13.0	15.4	13.8	13.4	20.0	19.2	18.1	17.9	17.1	14.5	12.8
50	12.2	11.0	16.2	16.2	15.9	15.9	14.9	14.9	13.5	14.3	13.2	13.2	12.1	10.6	12.5	11.1	10.7	16.4	16.1	15.1	15.1	14.4	11.9	10.4
55	10.0	8.9	13.1	13.1	12.9	12.9	12.1	12.1	10.9	11.7	10.8	10.8	10.0	8.6	9.9	8.8	8.5	13.3	13.0	12.4	12.3	11.8	9.9	8.5
60	8.1	7.1	10.7	10.7	10.5	10.5	9.8	9.8	8.9	9.5	8.9	8.9	8.2	7.0	7.9	6.8	6.6	10.9	10.6	10.1	10.0	9.6	8.2	6.9
65	6.6	5.6	8.9	8.9	8.8	8.8	8.2	8.2	7.3	7.9	7.4	7.4	6.7	5.5	6.4	5.2	5.0	9.1	8.9	8.4	8.4	8.1	6.7	5.5
70	5.2	4.3	7.6	7.6	7.5	7.5	6.9	6.9	6.1	6.6	6.1	6.1	5.4	4.3	5.1	3.7	3.6	7.8	7.6	7.1	7.1	6.8	5.4	4.3
75	4.1	2.9	6.5	6.5	6.4	6.4	5.8	5.8	5.0	5.5	5.0	5.0	4.3	3.0	3.8	2.2	2.1	6.7	6.5	6.0	6.0	5.7	4.3	3.1
80	2.9	1.7	5.6	5.6	5.5	5.5	4.9	4.9	4.0	4.6	4.0	4.0	3.1	1.8	2.5			5.7	5.6	5.1	5.1	4.8	3.3	1.8
85	1.7		4.7	4.7	4.6	4.6	4.0	4.0	3.0	3.8	3.1	3.1	2.0					4.9	4.7	4.2	4.2	3.9	2.2	
90			4.0	4.0	3.9	3.9	3.3	3.3	2.0	3.0	2.0	2.0						4.2	4.0	3.5	3.5	3.2		
95			3.4	3.4	3.3	3.3	2.6	2.6		2.1								3.5	3.4	2.9	2.9	2.5		
100			2.8	2.8	2.7	2.7	1.8	1.8										3.0	2.8	2.2	2.1	1.6		
105					2.0	2.0												2.4	2.2					
0°			2.4	2.4	0.9	0.9												2.1	0.7					
tele 1	0-46	46-92	0	0	0	0	0	0-0	0-46	0	0	0-0	0-46	46-92	0-46	0-92	0-92	0	0	0	0	0	0-46	46-92
tele 2	46-92	92	0	0	0	0-0	0-46	46	46	0-46	46-92	92	92	92	0-100	0-92	0-100	0	0	0	0-0	0-46	46-92	92
tele 3	92	92	0	0-0	0-46	46	46	46	46	46-92	92	92	92	92	0	0	0-46	0-0	0-46	46-92	92	92	92	92
tele 4	46	46	46-92	92	92	92	92	92	92	92	92	92	92	92	92	100	100	92	92	92	100	100	100	100
tele 5	92	92	92	92	92	92	92	92	92	92	92	92	92	92	0	0	0	100	100	100	100	100	100	100
tele 6	92	92	92	92	92	92	92	92	92	92	92	92	92	92	100	100	100	100	100	100	100	100	100	100
telescoped condition of boom in %																								

lifting capacities [kips], radius and boom [ft]

t_197_001_12076_00_000
13.01.2020
Peters

- subject to modification -



EN 13000

telescopic boom

trapezoidal base (100%V100%) 25.9ft x 27.2 ft/23 ft

0lb counterweight

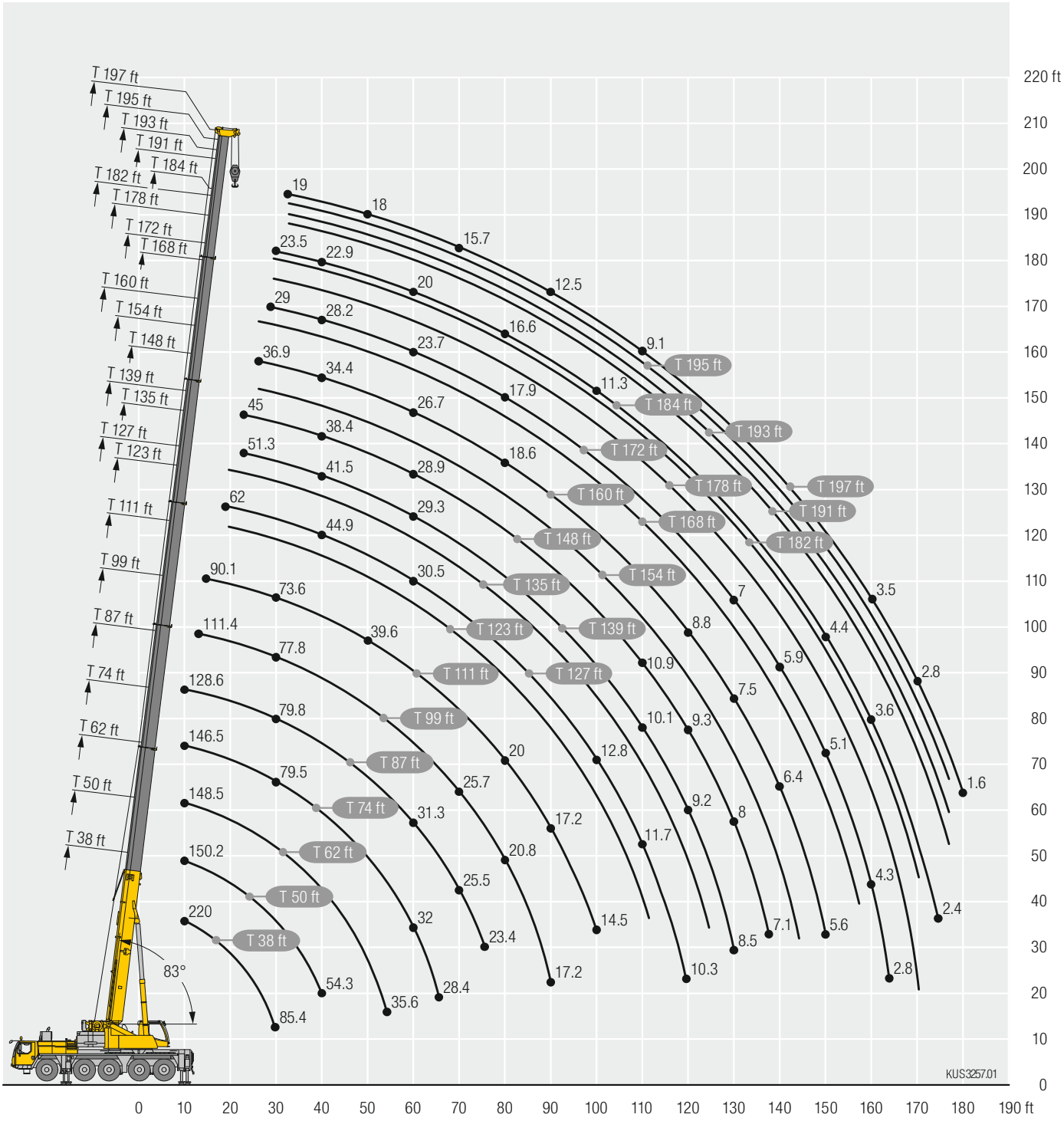
maximum permissible wind speed 36.7ft/s

LTM_1110-5.1
T
100%V100%
0.0t
360°

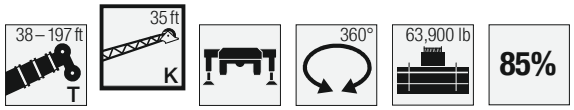
radius	T-168.3 tel.TL	T-192.6 tel.TL	T-170.3 tel.TL	T-182.4 tel.TL	T-194.9 tel.TL	T-196.8 tel.TL
28	24.2		24.8			
30	23.4		24.7	22.2		
32	22.6	19.8	24.5	22.1	19.4	13.3
34	21.8	19.2	23.5	21.5	19.1	12.7
36	21.1	18.2	22.1	20.4	17.9	12.1
38	20.3	17.0	20.3	18.7	16.7	11.6
40	19.0	15.6	18.8	17.2	15.3	11.1
45	15.8	12.7	15.5	14.1	12.4	9.9
50	13.1	10.3	12.9	11.6	10.1	8.9
55	10.9	8.4	10.7	9.6	8.2	7.9
60	8.9	6.8	8.8	7.9	6.6	6.4
65	7.4	5.4	7.3	6.4	5.3	5.0
70	6.1	4.2	6.0	5.2	4.0	3.9
75	5.0	3.0	4.9	4.1	2.8	2.5
80	4.1	1.8	4.0	3.1	1.7	
85	3.2		3.0	2.0		
90	2.1		2.0			
0°						
tele 1	0	0-92	0-0	0-46	46-92	92-100
tele 2	46-92	92	100	100	100	100
tele 3	100	100	100	100	100	100
tele 4	100	100	100	100	100	100
tele 5	100	100	100	100	100	100
tele 6	100	100	100	100	100	100
telescoped condition of boom in %						

lifting capacities [kips], radius and boom [ft]

Lifting heights
Hauteurs de levage



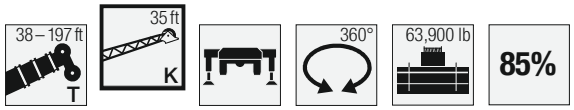
Lifting capacities
Forces de levage



	38 ft			111 ft			115 ft			117 ft			123 ft			130 ft			135 ft			142 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
10	32.5																								10
11	32.5																								11
12	32.5																								12
13	32.5																								13
14	32.5																								14
15	32.5																								15
16	32.5	32.5																							16
17	32.5	32.5																							17
18	32.5	32.5																							18
19	32.5	32.5																							19
20	32.5	32.5		32.5																					20
22	32.5	32.5		32.5																					22
24	32.5	32.3	23.7	32.5			22.2			21.6			32.5												24
26	32.5	31.4	22.8	32.5			21.9			21.3			32.5			19.7			30.4						26
28	32.1	29.9	22	32.5			21.4			20.9			32.5			19.5			30.4			17.5			28
30	30.9	28.4	21.2	32.5	32.5		21			20.5			32.5			19.2			30.4			17.3			30
32	29.5	26.8	20.6	32.5	32.1		20.5			20.1			32.5			18.9			30.3			17.1			32
34	28.1	25.5	20	32.5	31.4		19.9	17.9		19.6	17.7		32.5	30.9		18.6			30.1			16.9			34
36	26.6	24.4	19.4	32.5	30.6		19.4	17.3		19	17.1		32.5	30.5		18.2	16.7		29.9	27.5		16.7			36
38	24.9	23.4	18.8	32.5	29.8	21	18.8	16.8		18.5	16.6		32.5	30		17.8	16.3		29.7	27.2		16.4	14.8		38
40	23.3	22.5	18.3	32.4	29	20.6	18.2	16.2		18	16.1		32.5	29.6		17.4	15.8		29.5	26.9		16.1	14.5		40
45	20.1	20.3	17.3	31.6	27.3	19.9	16.9	15	13.8	16.7	14.9	13.7	32.5	28.3	20.3	16.3	14.8	13.4	28.5	26.2	20	15.3	13.8		45
50	17.5	18.7	16.4	30.6	25.8	19.2	15.7	13.9	12.9	15.4	13.9	12.8	31.2	26.8	19.6	15.3	13.8	12.6	27.3	25.5	19.4	14.5	13.1	12.2	50
55	15.3	17.3	15.9	29.6	24.5	18.6	14.6	13	12.1	14.2	12.9	12	29.6	25.4	19	14.3	12.9	11.9	25.8	24.7	18.8	13.8	12.3	11.6	55
60	13.6	16.1	15.7	28.2	23.4	18.1	13.4	12.2	11.4	13	12.1	11.3	27.9	24.3	18.5	13.3	12.1	11.2	24.1	23.6	18.3	13	11.7	11	60
65	12.1	15.5		26.1	22.2	17.6	12.4	11.4	10.8	11.9	11.4	10.7	25.4	23.2	18	12.3	11.5	10.6	22.5	22.2	17.9	12.2	11.1	10.4	65
70				23.8	21.2	17.2	11.4	10.7	10.2	11	10.6	10.2	22.7	22.2	17.6	11.4	10.8	10.1	20.8	20.9	17.4	11.4	10.6	10	70
75				21.2	20.3	16.8	10.7	10	9.7	10.2	10	9.7	20.1	20.7	17.1	10.6	10.2	9.8	18.8	19.5	17.1	10.7	10.1	9.6	75
80				18.8	19.5	16.4	10	9.5	9.2	9.6	9.4	9.2	17.7	19	16.7	9.9	9.6	9.3	17.2	17.8	16.8	10	9.6	9.3	80
85				16.8	17.8	16.2	9.3	9.1	8.8	9	8.9	8.8	15.7	16.8	16.3	9.4	9.2	9	15.4	15.8	16.3	9.5	9.1	8.9	85
90				15	15.9	15.9	8.8	8.7	8.5	8.5	8.4	8.4	14.3	14.9	15.5	8.9	8.7	8.6	13.7	14.6	14.8	9	8.7	8.6	90
95				13.4	14.2	14.7	8.3	8.2	8.2	8	7.9	8	12.8	13.6	13.9	8.4	8.3	8.2	12.2	13.1	13.7	8.6	8.3	8.3	95
100				12	12.7	13.1	7.9	7.8	7.8	7.6	7.5	7.6	11.3	12.1	12.7	8	7.9	7.9	11.4	11.6	12.2	8.2	8	7.9	100
105				10.7	11.3	11.7	7.5	7.4	7.5	7.2	7.2	7.2	10.4	10.8	11.3	7.6	7.5	7.5	10.3	10.6	10.8	7.8	7.7	7.6	105
110				9.7	10.1	10.4	7.1	7.1	7.1	6.8	6.8	6.9	9.8	9.7	10.1	7.3	7.2	7.2	9.3	9.8	10	7.4	7.3	7.4	110
115				8.8	9.2	9.4	6.8	6.7	6.8	6.5	6.5	6.6	9.1	9.3	9.3	7	6.9	6.9	8.5	9	9.3	7	7	7	115
120				8.1	8.4	8.6	6.4	6.4	6.5	6.2	6.2	6.2	8.3	8.7	8.9	6.6	6.6	6.6	8.1	8.2	8.5	6.7	6.7	6.8	120
125				7.4	7.7	7.8	6.1	6.1	6.2	5.9	5.9	6	7.6	8	8.1	6.4	6.3	6.4	7.7	7.7	7.8	6.4	6.4	6.5	125
130				6.8	7	7	5.9	5.9	6	5.6	5.6	5.7	7	7.3	7.4	6.1	6.1	6.1	7.3	7.4	7.4	6.1	6.1	6.2	130
135				6.3	6.4		5.7	5.7	5.8	5.3	5.4	5.5	6.6	6.7	6.8	5.9	5.9	5.9	7	6.9	7	5.8	5.8	5.9	135
140							5.5	5.5		5.1	5.2	5.3	6.4	6.3	6.5	5.6	5.6	5.7	6.6	6.7	6.7	5.5	5.6	5.6	140
145										5			6.1	6.2	6	5.4	5.4	5.5	6.1	6.3	6.4	5.3	5.3	5.4	145
150													6	6.1		5.2	5.3	5.3	5.6	5.8	5.9	5.1	5.1	5.1	150
155																5.1	5.1		5.2	5.3	5.4	4.8	4.9	4.9	155
160																			4.9	4.9		4.6	4.7	4.8	160
165																						4.5	4.5		165
170																						3.1			170

t_197_002_00001_00_000

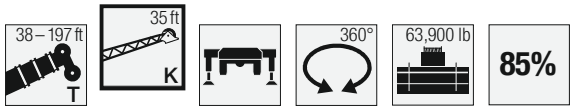
Lifting capacities
Forces de levage



	144 ft			148 ft			154 ft			156 ft			160 ft			166 ft			168 ft			170 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
28	17			24.5																					28
30	16.9			24.5			14.8			14.3			14.9			13.1									30
32	16.7			24.5			14.7			14.3			19.8			13.1			12.7			12.3			32
34	16.5			24.4			14.7			14.3			19.8			13.1			12.7			12.4			34
36	16.3			24.4			14.5			14.1			19.8			13.1			12.7			12.4			36
38	16.1	14.5		24.3			14.4			14			19.8			13			12.6			12.3			38
40	15.8	14.3		24.1	22.6		14.2	13.8		13.9			19.6			12.9			12.6			12.3			40
45	15.1	13.6		23.6	22.2		13.8	13.2		13.5	12.9		19.3	18.1		12.7	12.3		12.3	12		12	11.8		45
50	14.3	12.9	12.1	23	21.9	19	13.3	12.7	11.9	13	12.4	11.8	18.9	17.7		12.3	11.9		12	11.6		11.8	11.4		50
55	13.6	12.2	11.5	22.2	21.2	18.4	12.7	12.1	11.4	12.5	11.9	11.2	18.4	17.6	17.3	11.9	11.4	11	11.6	11.2	10.9	11.4	11	10.8	55
60	12.8	11.6	10.9	21.1	20.2	18	12.2	11.5	10.8	11.9	11.4	10.7	17.8	17.1	16.7	11.5	11	10.5	11.3	10.8	10.4	11.1	10.6	10.3	60
65	12	11	10.4	19.9	19.2	17.6	11.6	10.9	10.3	11.4	10.8	10.2	17	16.3	15.9	11.1	10.5	10.1	10.8	10.4	10	10.7	10.3	9.9	65
70	11.2	10.5	9.9	18.7	18.2	17.2	11.1	10.4	9.9	10.9	10.3	9.9	16.2	15.5	15.2	10.6	10.1	9.8	10.4	10	9.7	10.3	9.9	9.6	70
75	10.4	10	9.6	17.5	17.2	16.7	10.5	10	9.6	10.3	9.9	9.5	15.4	14.8	14.4	10.2	9.8	9.4	10	9.7	9.4	9.9	9.6	9.3	75
80	9.8	9.5	9.2	16.2	16.2	16	9.9	9.6	9.2	9.8	9.5	9.2	14.6	14.1	13.8	9.8	9.4	9.1	9.6	9.3	9.1	9.5	9.3	9	80
85	9.3	9.1	8.9	14.5	15.2	15.2	9.5	9.2	8.9	9.3	9.1	8.9	13.8	13.4	13.2	9.4	9.1	8.9	9.2	9	8.8	9.1	8.9	8.8	85
90	8.8	8.7	8.6	13.2	13.9	14.4	9.1	8.8	8.6	8.9	8.8	8.6	12.7	12.8	12.6	9	8.7	8.6	8.8	8.6	8.5	8.7	8.6	8.5	90
95	8.3	8.3	8.3	12.1	12.2	13.1	8.7	8.4	8.3	8.4	8.4	8.3	11.4	12.1	12	8.6	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.2	95
100	7.9	7.9	7.9	10.8	11.4	11.5	8.3	8.1	8	8.1	8	8	10.3	10.9	11.4	8.3	8.1	8	8.1	8	8	8	8	7.9	100
105	7.4	7.5	7.6	9.7	10.4	10.9	8	7.8	7.8	7.7	7.7	7.7	9.8	9.8	10.3	8	7.8	7.7	7.7	7.7	7.7	7.7	7.6	7.7	105
110	7.1	7.1	7.2	9.2	9.4	9.8	7.6	7.5	7.5	7.3	7.3	7.4	9	9.3	9.3	7.7	7.5	7.5	7.4	7.4	7.4	7.4	7.3	7.4	110
115	6.7	6.8	6.8	8.6	8.7	8.9	7.3	7.2	7.2	7	7	7.1	8.2	8.7	8.8	7.4	7.3	7.2	7.1	7.1	7.1	7.1	7.1	7.1	115
120	6.4	6.4	6.5	7.9	8.3	8.3	7	7	7	6.7	6.7	6.8	7.4	7.9	8.3	7.1	7	7	6.8	6.8	6.8	6.8	6.8	6.8	120
125	6.1	6.1	6.2	7.2	7.7	7.9	6.7	6.7	6.7	6.4	6.4	6.5	7.1	7.2	7.7	6.8	6.8	6.8	6.5	6.5	6.6	6.5	6.5	6.6	125
130	5.8	5.9	5.9	6.7	7	7.3	6.4	6.4	6.5	6.1	6.1	6.2	6.8	6.8	7	6.5	6.5	6.6	6.3	6.3	6.3	6.3	6.3	6.3	130
135	5.5	5.6	5.6	6.4	6.4	6.6	6.1	6.2	6.2	5.9	5.9	5.9	6.3	6.6	6.7	6.3	6.3	6.4	6	6	6.1	6	6	6.1	135
140	5.3	5.3	5.4	6.2	6.1	6.2	5.9	5.9	6	5.6	5.6	5.7	5.8	6.1	6.3	5.8	6.1	6.1	5.7	5.8	5.8	5.7	5.8	5.9	140
145	5	5.1	5.1	5.7	5.9	6	5.7	5.7	5.7	5.4	5.4	5.5	5.3	5.6	5.8	5.3	5.7	5.9	5.3	5.5	5.6	5.2	5.5	5.6	145
150	4.8	4.8	4.9	5.3	5.6	5.7	5.4	5.5	5.5	5.2	5.2	5.2	4.9	5.1	5.3	4.9	5.2	5.3	4.8	5.1	5.3	4.8	5.1	5.2	150
155	4.6	4.6	4.7	4.9	5.2	5.2	5	5.2	5.3	4.9	5	5	4.4	4.7	4.8	4.5	4.7	4.9	4.4	4.7	4.8	4.3	4.6	4.8	155
160	4.4	4.4	4.5	4.5	4.7	4.8	4.6	4.8	4.8	4.5	4.7	4.8	4	4.3	4.3	4	4.3	4.4	4	4.3	4.4	3.9	4.2	4.3	160
165	4.2	4.3	4.3	4.1	4.3	4.3	4.2	4.4	4.4	4.1	4.3	4.4	3.5	3.8	3.9	3.6	3.9	4	3.6	3.9	4	3.5	3.8	3.9	165
170	4.1	4.1		3.7	3.9		3.8	4	3.9	3.7	3.9	3.9	3.1	3.3	3.4	3.2	3.4	3.5	3.1	3.4	3.5	3.1	3.3	3.4	170
175				3.4			3.4	3.5	3.4	3.4	3.5	3.4	2.7	2.9	2.9	2.8	3	3	2.8	3	3	2.6	2.9	3	175
180							3.1	3.1		3	3.1		2.4	2.5	2.4	2.4	2.6	2.6	2.4	2.6	2.6	2.3	2.5	2.5	180
185													2.1	2.1		2.1	2.2	2.2	2	2.2	2.2	2	2.1	2.1	185
190																1.8	1.9		1.7	1.8		1.7	1.8	1.7	190
195																			1.5			1.3	1.4		195

t_197_002_00001_00_000

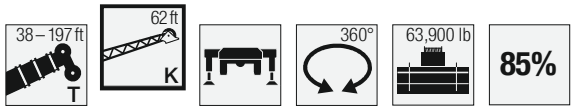
Lifting capacities
Forces de levage



	172 ft			178 ft			182 ft			184 ft			186 ft			191 ft			195 ft			197 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
32	14.7			11.6			10.9																		32
34	14.7			11.6			10.9			11.6			11.3			10.2			9.6			9.4			34
36	14.7			11.7			10.9			11.6			11.3			10.2			9.6			9.4			36
38	14.7			11.7			11			11.6			11.3			10.2			9.6			9.4			38
40	14.7			11.7			11			11.6			11.3			10.2			9.7			9.4			40
45	14.7	14.6		11.6	11.3		10.9			11.6			11.3			10.3			9.7			9.5			45
50	14.5	14.3		11.4	11.1		10.8	10.4		11.5	11.3		11.3	11		10.2	9.9		9.7	9.5		9.5	9.3		50
55	14.2	14.1	13.8	11.1	10.8	10.6	10.5	10.3		11.4	11.1		11.1	10.8		10.1	9.8		9.6	9.3		9.4	9.1		55
60	13.9	13.7	13.7	10.8	10.4	10.3	10.3	10	10	11.2	10.8	10.4	10.9	10.6	10.3	9.9	9.6	9.7	9.5	9.2	9.2	9.3	9	9	60
65	13.5	13.3	13.2	10.5	10.1	9.9	10.1	9.8	9.7	10.9	10.5	10.1	10.7	10.4	10	9.7	9.5	9.5	9.3	9.1	9.2	9.2	8.9	9	65
70	13	12.7	12.6	10.2	9.8	9.6	9.8	9.5	9.5	10.7	10.2	9.8	10.5	10.1	9.7	9.5	9.3	9.3	9.1	9	9	9	8.9	8.9	70
75	12.5	12.2	12	9.8	9.5	9.3	9.5	9.3	9.2	10.4	9.8	9.5	10.2	9.8	9.4	9.3	9.1	9	9	8.8	8.8	8.8	8.7	8.7	75
80	12	11.6	11.5	9.5	9.2	9.1	9.2	9	8.9	10.1	9.5	9.2	9.9	9.5	9.2	9.1	8.9	8.8	8.8	8.6	8.6	8.6	8.6	8.5	80
85	11.4	11.2	11	9.2	9	8.8	8.9	8.8	8.7	9.7	9.3	9	9.6	9.2	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.4	8.4	8.3	85
90	10.9	10.7	10.6	8.9	8.7	8.6	8.6	8.5	8.4	9.4	9	8.8	9.3	9	8.7	8.6	8.4	8.4	8.3	8.2	8.2	8.2	8.2	8.1	90
95	10.4	10.2	10.2	8.6	8.4	8.3	8.3	8.2	8.2	9.1	8.8	8.6	9	8.7	8.5	8.3	8.2	8.2	8.1	8	8	7.9	7.9	8	95
100	9.9	9.8	9.8	8.3	8.1	8	8	7.9	7.9	8.7	8.5	8.4	8.7	8.5	8.3	8.1	8	7.9	7.8	7.7	7.8	7.7	7.7	7.8	100
105	9.4	9.4	9.4	8	7.8	7.8	7.7	7.7	7.7	8.4	8.3	8.1	8.4	8.2	8.1	7.9	7.8	7.7	7.6	7.5	7.6	7.5	7.5	7.5	105
110	8.5	8.9	9.1	7.7	7.6	7.5	7.4	7.4	7.4	8.1	8	8	8	8	7.9	7.6	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.3	110
115	7.9	8.3	8.6	7.5	7.3	7.3	7.1	7.1	7.1	7.7	7.8	7.7	7.6	7.7	7.7	7.4	7.3	7.3	7.1	7	7.1	6.9	7	7.1	115
120	7.6	7.5	7.9	7.2	7.1	7.1	6.9	6.9	6.9	7.1	7.5	7.5	7	7.5	7.5	7.1	7.1	7.1	6.8	6.8	6.9	6.6	6.8	6.8	120
125	7.1	7.3	7.3	6.9	6.9	6.9	6.6	6.6	6.7	6.4	7	7.3	6.3	6.9	7.3	6.5	6.8	6.9	6.4	6.6	6.6	6.3	6.5	6.6	125
130	6.4	6.9	7	6.4	6.7	6.7	6.3	6.4	6.4	5.8	6.3	6.7	5.7	6.2	6.6	5.9	6.4	6.6	5.8	6.2	6.4	5.7	6.1	6.3	130
135	5.9	6.3	6.6	5.9	6.3	6.4	5.8	6.2	6.2	5.2	5.7	6	5.1	5.6	6	5.3	5.8	6.1	5.2	5.7	6	5.1	5.6	5.9	135
140	5.3	5.7	6	5.4	5.8	6	5.2	5.7	5.9	4.7	5.2	5.5	4.6	5.1	5.4	4.7	5.2	5.5	4.7	5.1	5.5	4.6	5	5.4	140
145	4.8	5.2	5.4	4.9	5.2	5.5	4.8	5.1	5.4	4.2	4.6	4.9	4.1	4.6	4.8	4.3	4.7	5	4.2	4.6	4.9	4.1	4.5	4.8	145
150	4.4	4.7	4.9	4.4	4.8	5	4.3	4.7	4.9	3.7	4.2	4.4	3.6	4.1	4.3	3.8	4.2	4.5	3.7	4.1	4.4	3.6	4	4.3	150
155	3.9	4.3	4.4	4	4.3	4.5	3.9	4.2	4.4	3.3	3.7	3.9	3.1	3.6	3.8	3.3	3.8	4	3.3	3.7	3.9	3.2	3.6	3.9	155
160	3.5	3.8	4	3.5	3.9	4.1	3.4	3.8	4	2.8	3.2	3.4	2.7	3.1	3.4	2.9	3.3	3.6	2.8	3.2	3.5	2.7	3.1	3.4	160
165	3	3.3	3.5	3.1	3.4	3.6	3	3.4	3.5	2.3	2.7	2.9	2.2	2.6	2.8	2.4	2.8	3.1	2.3	2.8	3	2.2	2.7	2.9	165
170	2.6	2.9	3	2.7	3	3.1	2.6	2.9	3.1	1.9	2.3	2.5	1.8	2.2	2.4	2	2.4	2.6	1.9	2.3	2.5	1.8	2.2	2.4	170
175	2.2	2.5	2.5	2.3	2.6	2.7	2.2	2.5	2.6	1.5	1.9	2	1.4	1.8	1.9	1.6	2	2.1	1.5	1.9	2.1	1.3	1.8	2	175
180	1.8	2.1	2.1	1.9	2.2	2.2	1.8	2.1	2.2		1.4	1.6			1.4		1.5	1.7		1.5	1.6		1.3	1.6	180
185	1.5	1.7	1.7	1.6	1.8	1.8	1.5	1.7	1.8																185
190		1.3			1.4	1.5		1.4	1.4																190

t_197_002_00001_00_000

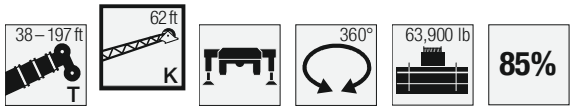
Lifting capacities
Forces de levage



	38 ft			111 ft			115 ft			117 ft			123 ft			130 ft			135 ft			142 ft			
	K 62 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°	
11	20.6																								11
12	20.4																								12
13	20.2																								13
14	19.9																								14
15	19.6																								15
16	19.3																								16
17	19																								17
18	18.7																								18
19	18.4																								19
20	18																								20
22	17.3																								22
24	16.7			15.1																					24
26	16			15			11.2			11			14.8												26
28	15.4			15			11.2			11			14.6			10.3			13.4						28
30	14.8	11.3		14.8			11.2			10.9			14.5			10.2			13.3			9.5			30
32	14.2	10.9		14.6			11.1			10.9			14.4			10.2			13.3			9.5			32
34	13.6	10.6		14.4			11.1			10.9			14.3			10.2			13.2			9.4			34
36	13.1	10.3		14.2			11			10.8			14.1			10.2			13.1			9.4			36
38	12.6	10		14			10.9			10.7			14			10.1			13			9.4			38
40	12.1	9.8		13.8			10.9			10.7			13.8			10.1			12.8			9.3			40
45	11	9.3	8.1	13.3	9.9		10.6			10.4			13.3	10		9.9			12.5			9			45
50	10	8.8	7.8	12.7	9.6		10.3	8.8		10.2	8.8		12.8	9.7		9.6	8.7		12.2	9.6		8.7			50
55	9	8.4	7.5	12.2	9.3		10	8.6		9.9	8.6		12.3	9.4		9.4	8.5		11.8	9.3		8.6	8.2		55
60	8.3	8.1	7.3	11.6	9	7.6	9.6	8.4		9.5	8.3		11.8	9.2	7.6	9	8.3		11.4	9.1		8.4	8.1		60
65	7.6	7.8	7.1	11	8.8	7.5	9.2	8.2	7.2	9.1	8.1	7.2	11.4	8.9	7.5	8.8	8.1		11.1	8.8	7.5	8.2	8		65
70	7	7.5	7	10.5	8.6	7.3	8.7	8	7.1	8.7	7.9	7.1	10.9	8.7	7.4	8.5	7.9	7.1	10.7	8.6	7.3	8	7.8	7	70
75	6.5	7.3	6.9	10.1	8.4	7.2	8.3	7.7	7	8.3	7.7	7	10.4	8.5	7.3	8.2	7.6	7	10.3	8.4	7.3	7.8	7.5	6.9	75
80	6.1	7.1	6.9	9.7	8.1	7.1	7.9	7.4	6.9	7.9	7.4	6.9	10	8.3	7.2	7.9	7.3	6.9	10	8.2	7.2	7.6	7.2	6.9	80
85	5.7	7	6.9	9.4	7.9	7.1	7.5	7.1	6.8	7.5	7.1	6.8	9.7	8.1	7.1	7.6	7.1	6.8	9.7	8.1	7.1	7.4	7	6.7	85
90	5.3	6.9		9.1	7.8	7	7.2	6.7	6.5	7.1	6.7	6.5	9.4	7.9	7.1	7.3	6.8	6.5	9.4	7.9	7	7.2	6.8	6.5	90
95				8.9	7.6	6.9	6.9	6.5	6.3	6.8	6.5	6.3	9.2	7.8	7	7	6.5	6.3	9.1	7.8	7	6.9	6.5	6.3	95
100				8.6	7.5	6.9	6.6	6.2	6	6.5	6.2	6.1	8.9	7.6	6.9	6.7	6.3	6.1	8.9	7.6	6.9	6.7	6.3	6.1	100
105				8.3	7.4	6.8	6.3	6	5.8	6.2	5.9	5.8	8.6	7.5	6.9	6.4	6	5.9	8.7	7.5	6.8	6.4	6.1	5.9	105
110				8	7.3	6.8	6	5.7	5.6	5.9	5.7	5.6	8.4	7.4	6.8	6.1	5.8	5.7	8.5	7.4	6.8	6.2	5.9	5.7	110
115				7.6	7.2	6.8	5.7	5.5	5.4	5.6	5.5	5.5	8	7.3	6.8	5.9	5.6	5.5	8.1	7.3	6.8	6	5.7	5.5	115
120				7.3	7.1	6.8	5.5	5.3	5.3	5.3	5.3	5.3	7.7	7.2	6.8	5.6	5.5	5.3	7.8	7.2	6.8	5.7	5.5	5.4	120
125				7	7	6.8	5.3	5.1	5.1	5.1	5.1	5.1	7.3	7.1	6.8	5.4	5.3	5.2	7.4	7.1	6.8	5.5	5.3	5.2	125
130				6.8	6.9	6.8	5.1	4.9	4.9	4.8	4.9	5	7	7	6.8	5.1	5.1	5	7	7	6.8	5.3	5.2	5.1	130
135				6.5	6.9	6.8	4.8	4.8	4.8	4.6	4.7	4.8	6.7	6.9	6.8	4.9	4.9	4.9	6.5	6.8	6.8	5.1	5	5	135
140				6.3	6.9	6.8	4.6	4.6	4.7	4.4	4.5	4.6	6.4	6.5	6.8	4.7	4.7	4.8	5.9	6.6	6.7	4.9	4.8	4.9	140
145				5.9	6.3	6.5	4.4	4.5	4.5	4.2	4.3	4.4	6	6.3	6.4	4.5	4.5	4.6	5.6	6	6.4	4.6	4.7	4.7	145
150				5.5	5.8	5.9	4.2	4.3	4.4	4.1	4.1	4.2	5.6	6	6.2	4.4	4.4	4.5	5.4	5.5	5.9	4.5	4.5	4.6	150
155				5	5.3	5.3	4.1	4.1	4.2	3.9	3.9	4	5.1	5.5	5.7	4.2	4.2	4.3	5.2	5.3	5.4	4.3	4.3	4.4	155
160				4.6	4.8		3.9	4	4.1	3.7	3.8	3.9	4.7	5.1	5.2	4	4	4.1	4.8	5.1	5.2	4.1	4.2	4.3	160
165				4.2			3.8	3.8		3.6	3.6		4.5	4.6	4.7	3.9	3.9	4	4.5	4.8	4.9	3.9	4	4.1	165
170							3.7			3.5			4.3	4.4		3.7	3.8	3.9	4.3	4.4	4.5	3.7	3.8	3.9	170
175													4.1	4.2		3.6	3.7		4.2	4.2	4.4	3.6	3.7	3.7	175
180																3.5	3.6		3.8	4		3.4	3.5	3.6	180
185																			3.5	3.6		3.3	3.4	3.5	185
190																			3.1			3.2	3.2		190
195																						2.9			195

t_197_002_01001_00_000

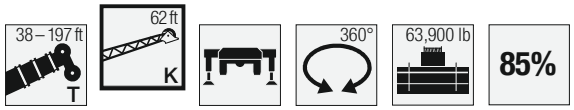
Lifting capacities
Forces de levage



	144 ft			148 ft			154 ft			156 ft			160 ft			166 ft			168 ft			170 ft			
	K 62 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°	
30	9.3			11.9																					30
32	9.3			11.8			9			8.8			10.4												32
34	9.3			11.7			9			8.8			10.4			8.4			8.2			8			34
36	9.2			11.7			8.9			8.8			10.3			8.3			8.1			8			36
38	9.2			11.6			8.9			8.7			10.3			8.3			8.1			8			38
40	9.1			11.6			8.8			8.7			10.2			8.2			8			7.9			40
45	8.8			11.4			8.5			8.3			10.2			7.9			7.7			7.6			45
50	8.5			11.2			8.3			8.1			10.1			7.7			7.5			7.4			50
55	8.4	8		11	9.1		8.1	7.7		8			9.9	8.8		7.5			7.4			7.2			55
60	8.2	8		10.7	8.9		8	7.7		7.8	7.5		9.8	8.6		7.4	7.1		7.2	6.9		7.1	6.8		60
65	8.1	7.9		10.4	8.7		7.9	7.6		7.7	7.4		9.7	8.4		7.3	7		7.1	6.9		7	6.7		65
70	7.9	7.7		10.2	8.5	7.3	7.7	7.5		7.5	7.4		9.5	8.3		7.2	7		7	6.8		6.9	6.7		70
75	7.7	7.5	6.9	9.9	8.3	7.2	7.6	7.4	6.9	7.4	7.3	6.9	9.4	8.1	7.1	7	6.9		6.9	6.8		6.8	6.7		75
80	7.5	7.2	6.9	9.7	8.1	7.1	7.4	7.2	6.8	7.3	7.1	6.8	9.2	8	7	6.9	6.9	6.7	6.8	6.7	6.7	6.7	6.6	6.7	80
85	7.4	6.9	6.6	9.4	8	7	7.2	6.9	6.6	7.1	6.9	6.6	9	7.8	7	6.8	6.8	6.5	6.7	6.7	6.5	6.6	6.6	6.5	85
90	7.1	6.7	6.4	9.2	7.8	7	7.1	6.7	6.4	7	6.7	6.4	8.9	7.7	6.9	6.7	6.6	6.3	6.6	6.6	6.3	6.5	6.5	6.3	90
95	6.9	6.5	6.2	9	7.7	6.9	6.9	6.5	6.2	6.8	6.5	6.2	8.7	7.6	6.9	6.6	6.4	6.2	6.5	6.4	6.1	6.4	6.4	6.1	95
100	6.7	6.3	6.1	8.7	7.6	6.9	6.7	6.3	6.1	6.7	6.3	6	8.5	7.5	6.8	6.5	6.3	6	6.4	6.2	6	6.3	6.2	5.9	100
105	6.4	6.1	5.9	8.5	7.5	6.8	6.5	6.1	5.9	6.5	6.1	5.9	8.4	7.4	6.8	6.4	6.1	5.8	6.3	6	5.8	6.2	6	5.8	105
110	6.1	5.8	5.7	8.3	7.3	6.8	6.3	5.9	5.7	6.2	5.9	5.7	8.2	7.3	6.7	6.2	5.9	5.7	6.2	5.9	5.7	6.1	5.9	5.6	110
115	5.9	5.7	5.5	8	7.3	6.8	6	5.7	5.6	6	5.7	5.6	7.8	7.2	6.7	6	5.7	5.5	6	5.7	5.5	5.9	5.7	5.5	115
120	5.6	5.5	5.4	7.7	7.2	6.7	5.8	5.5	5.4	5.8	5.5	5.4	7.2	7.1	6.7	5.8	5.6	5.4	5.8	5.5	5.4	5.7	5.5	5.4	120
125	5.3	5.3	5.2	7.2	7.1	6.7	5.6	5.4	5.3	5.5	5.4	5.3	6.9	7	6.7	5.6	5.4	5.3	5.5	5.4	5.3	5.5	5.4	5.3	125
130	5.1	5.1	5.1	6.5	7	6.7	5.4	5.2	5.2	5.3	5.2	5.1	6.6	6.7	6.7	5.4	5.3	5.2	5.3	5.2	5.2	5.3	5.2	5.2	130
135	4.9	5	4.9	6.3	6.7	6.7	5.2	5.1	5	5.1	5.1	5	6.1	6.4	6.6	5.3	5.1	5	5.1	5.1	5	5.1	5.1	5	135
140	4.6	4.8	4.8	6	6.2	6.6	5	4.9	4.9	4.8	4.9	4.9	5.5	6.2	6.3	5.1	5	4.9	4.9	5	4.9	4.9	4.9	4.9	140
145	4.4	4.5	4.7	5.5	5.8	6.1	4.8	4.8	4.8	4.6	4.7	4.8	5.2	5.8	6.1	4.9	4.8	4.8	4.7	4.8	4.8	4.7	4.8	4.8	145
150	4.2	4.3	4.5	5.1	5.6	5.7	4.6	4.6	4.7	4.5	4.5	4.6	5	5.3	5.7	4.7	4.7	4.7	4.5	4.6	4.7	4.5	4.6	4.7	150
155	4	4.2	4.3	4.7	5.2	5.5	4.5	4.5	4.6	4.3	4.4	4.5	4.7	4.8	5.2	4.6	4.6	4.6	4.4	4.4	4.5	4.4	4.5	4.5	155
160	3.9	4	4.1	4.5	4.8	5.1	4.3	4.3	4.4	4.1	4.2	4.3	4.3	4.6	4.7	4.3	4.4	4.5	4.2	4.3	4.4	4.2	4.3	4.4	160
165	3.7	3.8	3.9	4.3	4.4	4.6	4.1	4.2	4.3	3.9	4	4.1	4	4.4	4.6	4	4.3	4.4	3.9	4.1	4.2	3.8	4.1	4.2	165
170	3.5	3.6	3.7	4.1	4.2	4.4	4	4	4.1	3.8	3.8	3.9	3.6	4.1	4.3	3.6	4.1	4.2	3.6	4	4.1	3.5	3.9	4.1	170
175	3.4	3.5	3.5	3.8	4.1	4.2	3.8	3.9	4	3.6	3.7	3.8	3.2	3.7	3.9	3.2	3.7	4	3.2	3.7	3.9	3.1	3.6	3.9	175
180	3.2	3.3	3.4	3.4	3.8	3.9	3.4	3.8	3.8	3.4	3.5	3.6	2.8	3.3	3.5	2.8	3.4	3.6	2.8	3.3	3.6	2.7	3.2	3.5	180
185	3.1	3.1	3.2	3.1	3.4	3.4	3.1	3.4	3.6	3	3.4	3.5	2.5	2.9	3.1	2.5	3	3.2	2.4	2.9	3.2	2.4	2.8	3.1	185
190	2.9	3		2.8	3	3	2.8	3.1	3.1	2.7	3	3.1	2.1	2.5	2.6	2.2	2.6	2.8	2.1	2.5	2.7	2	2.5	2.7	190
195	2.8	2.9		2.5	2.7		2.5	2.7	2.7	2.4	2.7	2.7	1.9	2.2	2.2	1.9	2.2	2.3	1.8	2.2	2.3	1.7	2.1	2.3	195
200				2.2			2.2	2.4		2.1	2.3		1.6	1.8	1.8	1.6	1.9	1.9	1.5	1.9	1.9	1.4	1.8	1.9	200
205							1.9	2		1.8	2			1.5			1.6	1.6		1.5	1.5		1.5	1.5	205
210										1.6															210

t_197_002_01001_00_000

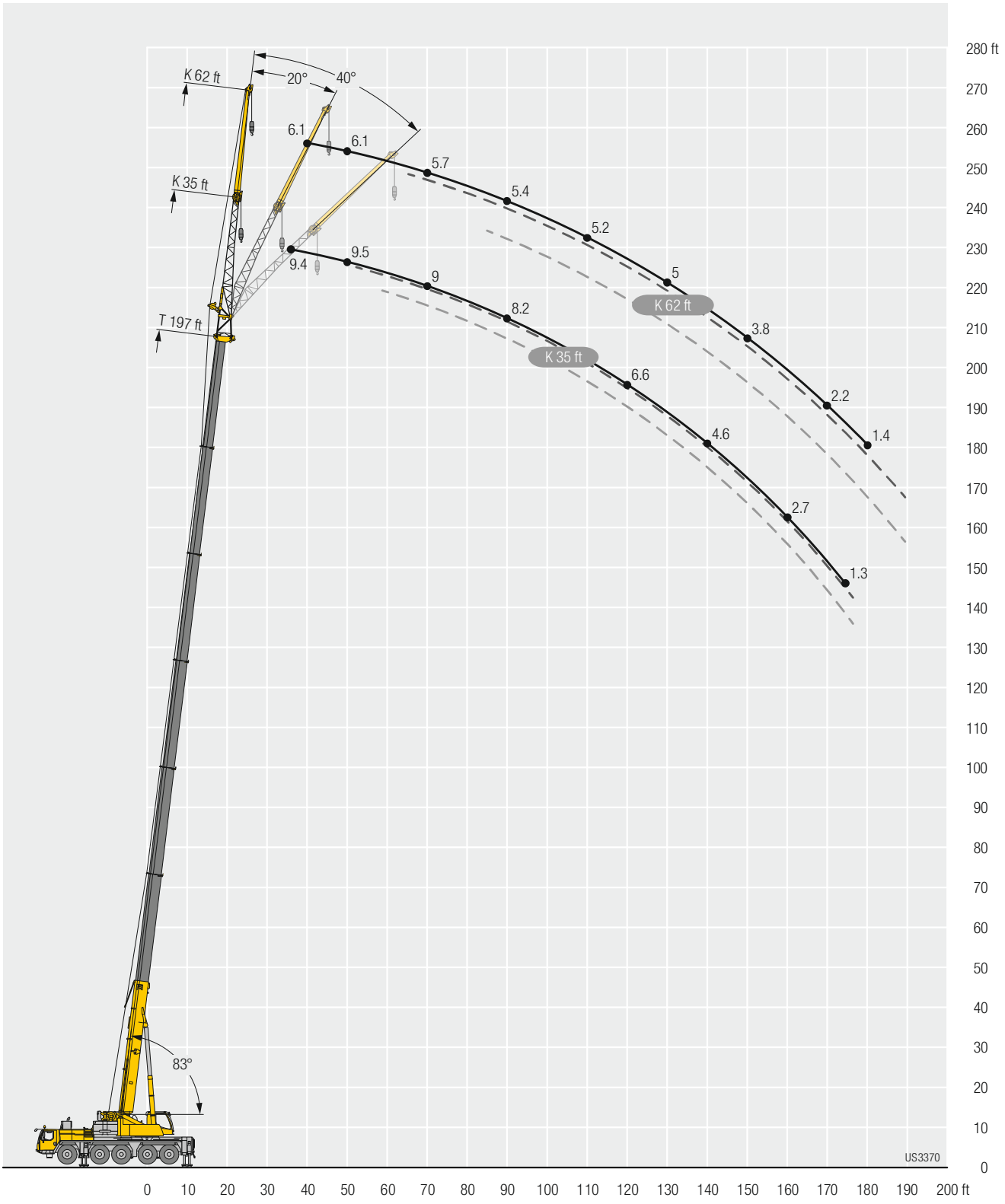
Lifting capacities
Forces de levage



	172 ft			178 ft			182 ft			184 ft			186 ft			191 ft			195 ft			197 ft			
	K 62 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°	
34	9.1																								34
36	9.1			7.7			7.3			7.7															36
38	9			7.7			7.3			7.7			7.6			6.9									38
40	9			7.7			7.3			7.7			7.6			6.9			6.3			6.1			40
45	8.9			7.5			7.1			7.7			7.5			6.8			6.4			6.1			45
50	8.9			7.2			6.9			7.4			7.3			6.7			6.3			6.1			50
55	8.7			7			6.7			7.2			7.1			6.5			6.2			6.1			55
60	8.6	8		6.9	6.5		6.6			7			6.9			6.4			6.1			6			60
65	8.4	8		6.8	6.5		6.5	6.2		6.9	6.6		6.7	6.4		6.2	5.9		5.9	5.6		5.8	5.5		65
70	8.3	7.9		6.7	6.5		6.4	6.2		6.8	6.5		6.6	6.4		6.1	5.9		5.8	5.6		5.7	5.5		70
75	8.2	7.8	7	6.6	6.5		6.3	6.1		6.7	6.5		6.5	6.4		6	5.9		5.8	5.6		5.6	5.5		75
80	8.1	7.7	6.9	6.5	6.4	6.5	6.2	6.1	6.2	6.6	6.5	6.5	6.5	6.4		6	5.8		5.7	5.6		5.6	5.4		80
85	8	7.6	6.9	6.4	6.3	6.5	6.1	6.1	6.2	6.5	6.5	6.5	6.4	6.3	6.4	5.9	5.8	5.9	5.6	5.5	5.6	5.5	5.4	5.5	85
90	7.9	7.5	6.8	6.4	6.3	6.3	6.1	6.1	6.2	6.4	6.4	6.4	6.3	6.3	6.3	5.8	5.8	5.9	5.5	5.5	5.6	5.4	5.4	5.5	90
95	7.8	7.4	6.8	6.3	6.3	6.1	6	6	6.1	6.4	6.4	6.2	6.3	6.2	6.2	5.8	5.8	5.9	5.4	5.5	5.6	5.3	5.4	5.5	95
100	7.7	7.3	6.7	6.2	6.2	6	5.9	6	5.9	6.3	6.3	6.1	6.2	6.2	6	5.7	5.7	5.9	5.4	5.5	5.7	5.3	5.4	5.5	100
105	7.6	7.2	6.7	6.2	6	5.8	5.9	6	5.8	6.3	6.1	5.9	6.2	6.1	5.9	5.7	5.7	5.8	5.4	5.5	5.7	5.2	5.4	5.5	105
110	7.4	7.1	6.7	6.1	5.9	5.7	5.8	5.8	5.6	6.2	6	5.8	6.1	5.9	5.8	5.6	5.7	5.6	5.3	5.5	5.6	5.2	5.4	5.5	110
115	7.3	7	6.6	6	5.7	5.5	5.8	5.7	5.5	6.1	5.8	5.7	6.1	5.8	5.6	5.6	5.6	5.5	5.3	5.4	5.4	5.2	5.3	5.4	115
120	7	6.9	6.6	5.8	5.6	5.4	5.6	5.5	5.4	6	5.7	5.5	6	5.7	5.5	5.5	5.5	5.4	5.2	5.3	5.3	5.1	5.2	5.3	120
125	6.7	6.7	6.6	5.7	5.4	5.3	5.5	5.4	5.3	5.9	5.6	5.4	5.8	5.5	5.4	5.4	5.4	5.3	5.2	5.2	5.2	5.1	5.2	5.2	125
130	6	6.6	6.5	5.5	5.3	5.2	5.3	5.2	5.2	5.7	5.4	5.3	5.7	5.4	5.3	5.3	5.2	5.2	5.1	5.2	5.1	5	5.1	5.1	130
135	5.6	6.3	6.4	5.3	5.2	5.1	5.2	5.1	5	5.4	5.3	5.2	5.4	5.2	5.2	5.3	5.1	5.1	5	5	5	4.9	5	5	135
140	5.4	5.8	6.2	5.2	5	4.9	5	5	4.9	5.1	5.2	5.1	4.9	5.1	5.1	5	5	5	4.8	4.9	4.9	4.7	4.9	4.9	140
145	5.1	5.2	5.8	5	4.9	4.8	4.8	4.8	4.8	4.6	5	5	4.5	5	5	4.6	4.9	4.9	4.4	4.8	4.8	4.3	4.8	4.8	145
150	4.7	4.9	5.3	4.7	4.8	4.8	4.5	4.7	4.7	4.1	4.8	4.9	4	4.8	4.9	4.1	4.8	4.8	3.9	4.7	4.7	3.8	4.6	4.7	150
155	4.3	4.8	4.8	4.3	4.6	4.6	4.2	4.5	4.6	3.7	4.4	4.8	3.6	4.3	4.7	3.6	4.4	4.6	3.5	4.3	4.6	3.3	4.2	4.6	155
160	3.9	4.5	4.7	3.9	4.4	4.5	3.8	4.3	4.5	3.3	4	4.4	3.1	3.9	4.4	3.2	4	4.5	3.1	3.9	4.3	2.9	3.8	4.3	160
165	3.5	4.1	4.4	3.5	4.1	4.4	3.4	4	4.3	2.8	3.5	4	2.7	3.5	3.9	2.8	3.6	4	2.7	3.4	4	2.5	3.3	3.9	165
170	3.1	3.7	4	3.1	3.7	4	3	3.6	4	2.4	3.1	3.6	2.3	3.1	3.5	2.4	3.2	3.6	2.3	3	3.5	2.2	2.9	3.5	170
175	2.7	3.3	3.6	2.7	3.3	3.6	2.6	3.2	3.6	2	2.7	3.1	1.9	2.6	3.1	2	2.8	3.2	1.9	2.6	3.1	1.8	2.5	3	175
180	2.3	2.9	3.2	2.3	2.9	3.3	2.2	2.8	3.2	1.6	2.3	2.7	1.5	2.2	2.6	1.7	2.4	2.8	1.6	2.3	2.7	1.4	2.2	2.6	180
185	2	2.5	2.7	2	2.5	2.8	1.9	2.4	2.8		1.9	2.3		1.8	2.2		2	2.4		1.9	2.3		1.8	2.2	185
190	1.6	2.1	2.3	1.6	2.2	2.4	1.5	2.1	2.4		1.5	1.8		1.4	1.8		1.6	1.9		1.5	1.9		1.4	1.8	190
195		1.8	1.9		1.8	2		1.7	2			1.4						1.5			1.5			1.4	195
200		1.4	1.5		1.5	1.6		1.4	1.6																200

t_197_002_01001_00_000

Lifting heights
Hauteurs de levage



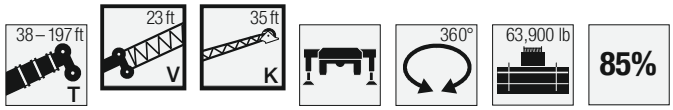
Lifting capacities
Forces de levage



	38 ft + 23 ft			111 ft + 23 ft			115 ft + 23 ft			117 ft + 23 ft			123 ft + 23 ft			130 ft + 23 ft			135 ft + 23 ft			142 ft + 23 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
10	32.5																								10
11	32.5																								11
12	32.5																								12
13	32.5																								13
14	32.5																								14
15	32.5																								15
16	32.5																								16
17	32.5																								17
18	32.5																								18
19	32.5																								19
20	32.5	31.7																							20
22	32.4	29.8		28.2																					22
24	31.3	28.1		28.2			14.1			13.6			26.8												24
26	29.9	26.4		28.3			14.1			13.6			26.9			12.3			13.1						26
28	28.6	25	22	27.9			14			13.6			26.8			12.2			22.2			10.6			28
30	27.3	23.7	20.9	27.5			13.9			13.4			26.6			12.2			22.2			10.6			30
32	26	22.5	20	27			13.7			13.3			26.3			12.1			22.2			10.6			32
34	24.7	21.5	19.1	26.4	22.1		13.4			13.1			25.9			12			22			10.6			34
36	23.3	20.5	18.3	25.9	21.5		13.2			12.8			25.4			11.8			21.8			10.5			36
38	22.1	19.6	17.6	25.3	20.9		12.9	12.3		12.6	12.1		25	21.4		11.7			21.6			10.4			38
40	20.9	18.6	16.8	24.6	20.3		12.6	11.9		12.3	11.7		24.5	20.8		11.5	11.1		21.3	19.1		10.3			40
45	18.5	16.5	15.3	23	19	16.4	11.8	11		11.6	10.9		23.4	19.6	16.9	11	10.5		20.6	18.2		10	9.8		45
50	16.4	14.9	13.9	21.5	17.9	15.6	11	10.2	9.9	10.8	10.1	9.8	22.1	18.5	16	10.4	9.9	9.5	19.8	17.3	15.5	9.6	9.4		50
55	14.6	13.5	12.7	20.3	16.8	14.8	10.2	9.6	9.3	10.1	9.5	9.2	20.8	17.4	15.2	9.9	9.3	9	19.1	16.4	14.8	9.3	9	8.8	55
60	13.2	12.2	11.7	19	15.9	14	9.7	9.1	8.8	9.5	9	8.8	19.7	16.5	14.5	9.4	8.9	8.6	18.2	15.7	14.1	8.9	8.6	8.4	60
65	11.9	11.2	10.8	17.8	15.1	13.3	9.1	8.6	8.4	9	8.5	8.3	18.6	15.6	13.8	8.9	8.5	8.2	17.4	14.9	13.6	8.6	8.2	8	65
70	10.9	10.3	10.1	16.6	14.3	12.8	8.5	8.2	7.9	8.5	8.1	7.9	17.5	14.9	13.2	8.5	8.1	7.8	16.6	14.2	13	8.3	7.9	7.7	70
75	9.9	9.6	9.5	15.7	13.5	12.3	8	7.7	7.6	8	7.7	7.5	16.5	14.2	12.7	8.1	7.7	7.5	15.8	13.7	12.5	7.9	7.5	7.3	75
80	9.3	9	9	14.8	12.8	11.7	7.6	7.3	7.2	7.5	7.3	7.2	15.5	13.5	12.2	7.6	7.4	7.2	15	13.1	12.1	7.6	7.2	7	80
85	8.7	8.6	8.7	14	12.2	11.2	7.2	6.9	6.9	7.2	6.9	6.9	14.7	12.8	11.7	7.2	7	6.9	14.2	12.5	11.7	7.2	6.9	6.8	85
90				13.3	11.6	10.8	6.8	6.6	6.5	6.8	6.6	6.5	13.7	12.2	11.2	6.9	6.7	6.6	12.8	12	11.2	6.9	6.7	6.5	90
95				12.5	11.1	10.4	6.5	6.3	6.2	6.5	6.3	6.2	12.4	11.7	10.8	6.6	6.4	6.3	11.4	11.5	10.8	6.6	6.4	6.3	95
100				11.8	10.7	10.1	6.2	6	5.9	6.1	6	5.9	11	11	10.4	6.3	6.1	6	10.5	10.9	10.5	6.3	6.1	6	100
105				10.8	10.2	9.8	5.9	5.7	5.7	5.8	5.7	5.7	9.9	10.4	10.1	6	5.9	5.8	9.6	10	10.1	6	5.9	5.8	105
110				9.7	9.9	9.5	5.6	5.5	5.4	5.5	5.5	5.5	9.2	9.5	9.7	5.7	5.6	5.6	8.6	9.3	9.4	5.8	5.6	5.6	110
115				8.9	9.4	9.3	5.3	5.2	5.2	5.2	5.2	5.2	8.4	8.8	9.1	5.4	5.4	5.4	7.9	8.4	8.9	5.5	5.4	5.4	115
120				8.1	8.6	8.8	5.1	5	5	4.9	4.9	5	7.6	8.1	8.4	5.2	5.2	5.2	7.5	7.6	8.1	5.3	5.2	5.2	120
125				7.4	7.8	8.1	4.8	4.8	4.8	4.6	4.7	4.7	7	7.4	7.8	4.9	4.9	4.9	6.9	7.2	7.4	5	5	5	125
130				6.8	7.1	7.3	4.6	4.6	4.6	4.4	4.5	4.5	6.6	6.7	7.1	4.7	4.7	4.7	6.3	6.7	6.9	4.8	4.8	4.8	130
135				6.2	6.5	6.7	4.4	4.4	4.4	4.2	4.2	4.3	6.3	6.4	6.4	4.5	4.5	4.5	5.7	6.1	6.5	4.6	4.6	4.7	135
140				5.7	6	6.1	4.2	4.2	4.2	4	4	4.1	5.8	6	6.1	4.3	4.3	4.3	5.5	5.6	5.9	4.4	4.4	4.5	140
145				5.2	5.4	5.5	4	4	4	3.8	3.8	3.8	5.3	5.6	5.8	4.1	4.1	4.1	5.2	5.2	5.4	4.2	4.2	4.3	145
150				4.7	4.9	4.9	3.8	3.8	3.9	3.6	3.6	3.7	4.9	5.1	5.3	3.9	3.9	4	5	5	5.1	4	4.1	4.1	150
155				4.2	4.4	4.3	3.6	3.6	3.7	3.4	3.4	3.5	4.4	4.6	4.8	3.7	3.8	3.8	4.6	4.8	4.8	3.8	3.9	3.9	155
160				3.8	3.9		3.5	3.5	3.5	3.3	3.3	3.3	4.2	4.2	4.3	3.6	3.6	3.6	4.2	4.4	4.5	3.6	3.7	3.7	160
165							3.3	3.4		3.1	3.2		4	4	4.1	3.4	3.4	3.5	4	4	4.1	3.4	3.5	3.5	165
170													3.8	3.9		3.3	3.3	3.4	3.8	3.9	3.9	3.3	3.3	3.3	170
175																3.2	3.2		3.4	3.6	3.5	3.1	3.1	3.2	175
180																3.1			3.1	3.2	3.1	3	3	3	180
185																			2.8	2.9		2.8	2.8	2.8	185
190																						2.5	2.5		190

t_197_004_00001_00_000

Lifting capacities
Forces de levage



	144 ft + 23 ft			148 ft + 23 ft			154 ft + 23 ft			156 ft + 23 ft			160 ft + 23 ft			166 ft + 23 ft			168 ft + 23 ft			170 ft + 23 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
30	10.3			17.5			9.7																		30
32	10.3			17.5			9.7			9.5			12.8												32
34	10.3			17.5			9.7			9.5			12.8			8.8			8.6			8.4			34
36	10.2			17.5			9.7			9.5			12.8			8.8			8.6			8.4			36
38	10.1			17.5			9.7			9.5			12.8			8.8			8.6			8.4			38
40	10.1			17.4			9.6			9.4			12.8			8.8			8.6			8.4			40
45	9.8	9.6		17.2	15.7		9.4	9.3		9.2	9.1		12.8	13		8.7			8.5			8.3			45
50	9.5	9.3		16.8	15.2		9.2	9		9	8.9		12.7	12.7		8.5	8.5		8.4	8.3		8.2	8.1		50
55	9.2	8.9	8.7	16.4	14.7	13.5	8.9	8.8	8.5	8.8	8.6	8.4	12.5	12.4	11.7	8.4	8.3		8.2	8.1		8.1	8		55
60	8.8	8.5	8.3	15.9	14.2	13	8.6	8.4	8.2	8.5	8.3	8.1	12.2	12.2	11.6	8.2	8	7.9	8	7.9	7.8	7.9	7.8	7.7	60
65	8.5	8.2	7.9	15.4	13.7	12.5	8.3	8.1	7.9	8.2	8	7.8	11.9	11.8	11.4	7.9	7.8	7.6	7.8	7.6	7.6	7.7	7.6	7.5	65
70	8.2	7.8	7.6	14.7	13.2	12.1	8.1	7.8	7.6	7.9	7.7	7.5	11.5	11.4	11.1	7.7	7.5	7.4	7.6	7.4	7.3	7.5	7.3	7.3	70
75	7.8	7.5	7.3	14.1	12.7	11.7	7.8	7.5	7.3	7.7	7.4	7.2	11.1	10.9	10.8	7.5	7.3	7.1	7.3	7.2	7.1	7.2	7.1	7	75
80	7.5	7.2	7	13.4	12.2	11.3	7.5	7.2	7	7.4	7.1	7	10.7	10.4	10.3	7.2	7	6.8	7.1	6.9	6.8	7	6.9	6.8	80
85	7.2	6.9	6.7	12.6	11.7	11	7.2	6.9	6.7	7.1	6.8	6.7	10.2	10	9.9	7	6.8	6.6	6.9	6.7	6.6	6.8	6.7	6.5	85
90	6.8	6.6	6.5	12	11.2	10.7	6.9	6.7	6.5	6.8	6.6	6.5	9.8	9.6	9.5	6.8	6.6	6.4	6.7	6.5	6.4	6.6	6.4	6.3	90
95	6.6	6.3	6.3	11	10.7	10.4	6.6	6.4	6.3	6.6	6.4	6.2	9.4	9.3	9.2	6.5	6.3	6.2	6.5	6.3	6.1	6.4	6.2	6.1	95
100	6.3	6.1	6	9.9	10.2	10	6.4	6.1	6.1	6.3	6.1	6	9	8.9	8.9	6.3	6.1	6	6.2	6.1	5.9	6.2	6	5.9	100
105	6	5.8	5.8	8.8	9.7	9.7	6.1	5.9	5.8	6.1	5.9	5.8	8.6	8.5	8.5	6.1	5.9	5.8	6	5.9	5.8	6	5.8	5.8	105
110	5.7	5.6	5.6	8.4	8.8	9.2	5.9	5.7	5.6	5.8	5.7	5.6	8.1	8.2	8.2	5.9	5.7	5.6	5.8	5.7	5.6	5.8	5.6	5.6	110
115	5.5	5.4	5.4	8	7.9	8.4	5.6	5.5	5.5	5.6	5.5	5.4	7.3	7.8	7.9	5.6	5.5	5.5	5.6	5.5	5.4	5.6	5.5	5.4	115
120	5.2	5.2	5.2	7.2	7.6	7.6	5.4	5.3	5.3	5.4	5.3	5.3	6.8	7.2	7.5	5.4	5.3	5.3	5.4	5.3	5.2	5.4	5.3	5.2	120
125	4.9	5	5	6.5	7.1	7.3	5.2	5.1	5.1	5.1	5.1	5.1	6.5	6.5	6.9	5.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	125
130	4.7	4.7	4.8	6.1	6.4	6.7	5	4.9	4.9	4.9	4.9	4.9	6.1	6.3	6.3	5	5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	130
135	4.4	4.5	4.6	5.9	5.9	6.1	4.8	4.7	4.8	4.6	4.7	4.7	5.5	5.9	6.1	4.8	4.8	4.8	4.7	4.7	4.8	4.7	4.7	4.8	135
140	4.2	4.3	4.4	5.4	5.6	5.7	4.6	4.6	4.6	4.4	4.5	4.5	4.9	5.4	5.6	4.7	4.6	4.6	4.5	4.6	4.6	4.5	4.6	4.6	140
145	4	4.1	4.1	4.9	5.3	5.4	4.4	4.4	4.4	4.2	4.3	4.3	4.8	4.9	5.1	4.5	4.5	4.5	4.3	4.4	4.4	4.3	4.4	4.4	145
150	3.8	3.9	3.9	4.5	4.8	5	4.2	4.2	4.3	4	4.1	4.1	4.6	4.5	4.6	4.3	4.3	4.3	4.1	4.2	4.2	4.1	4.2	4.2	150
155	3.6	3.6	3.7	4.2	4.4	4.5	4	4.1	4.1	3.8	3.9	3.9	4.2	4.4	4.4	4.1	4.1	4.2	3.9	4	4	3.9	4	4.1	155
160	3.4	3.5	3.5	4.1	4.1	4.1	3.9	3.9	3.9	3.7	3.7	3.8	3.7	4.1	4.2	3.7	4	4	3.7	3.8	3.9	3.6	3.8	3.9	160
165	3.2	3.3	3.3	3.9	3.9	4	3.7	3.7	3.8	3.5	3.5	3.6	3.3	3.6	3.8	3.3	3.7	3.8	3.3	3.6	3.7	3.2	3.5	3.7	165
170	3.1	3.1	3.1	3.5	3.7	3.8	3.5	3.6	3.6	3.3	3.4	3.4	2.9	3.2	3.3	2.9	3.2	3.4	2.8	3.2	3.4	2.7	3.1	3.3	170
175	2.9	2.9	3	3.1	3.3	3.4	3.1	3.3	3.4	3	3.2	3.2	2.5	2.8	2.9	2.5	2.8	3	2.4	2.8	2.9	2.4	2.7	2.8	175
180	2.7	2.8	2.8	2.7	2.9	2.9	2.7	2.9	3	2.6	2.9	3	2.1	2.4	2.5	2.1	2.4	2.5	2.1	2.4	2.5	2	2.3	2.4	180
185	2.6	2.6	2.7	2.4	2.5	2.5	2.4	2.5	2.6	2.3	2.5	2.6	1.8	2	2	1.8	2	2.1	1.7	2	2.1	1.6	1.9	2	185
190	2.4	2.5		2.1	2.2	2.1	2	2.2	2.2	2	2.2	2.2	1.4	1.6	1.7	1.4	1.7	1.7	1.4	1.6	1.7		1.5	1.6	190
195	1.4			1.8	1.8		1.7	1.9	1.8	1.7	1.8	1.8						1.4			1.3				195
200							1.5	1.5		1.4	1.5	1.4													200

t_197_004_00001_00_000

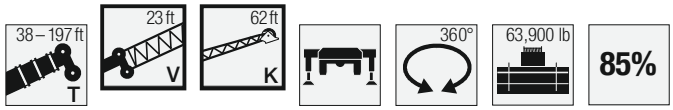
Lifting capacities
Forces de levage



	172 ft + 23 ft			178 ft + 23 ft			182 ft + 23 ft			184 ft + 23 ft			186 ft + 23 ft			191 ft + 23 ft			195 ft + 23 ft			197 ft + 23 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
34	10																								34
36	10.1			8			7.5			8															36
38	10.1			8			7.6			8			7.8			7.1									38
40	10.1			8			7.6			8			7.8			7.2			6.7			6.6			40
45	10.1			8			7.6			8			7.8			7.2			6.8			6.6			45
50	10.1	10		7.9	7.9		7.6			7.9	7.9		7.8			7.2			6.8			6.6			50
55	10	9.8		7.8	7.7		7.5	7.4		7.9	7.8		7.7	7.7		7.2	7.1		6.8	6.7		6.7	6.6		55
60	9.8	9.7	9.3	7.7	7.6	7.4	7.4	7.3		7.8	7.7		7.6	7.5		7.1	7		6.7	6.6		6.6	6.5		60
65	9.6	9.5	9.3	7.5	7.4	7.3	7.2	7.2	7	7.6	7.5	7.4	7.5	7.4	7.3	7	6.9	6.7	6.6	6.6	6.4	6.5	6.4	6.3	65
70	9.5	9.4	9.2	7.3	7.2	7.2	7.1	7	7	7.5	7.3	7.3	7.4	7.3	7.2	6.8	6.7	6.7	6.5	6.5	6.4	6.4	6.4	6.2	70
75	9.2	9.2	9	7.1	7	7	6.9	6.8	6.8	7.3	7.2	7	7.2	7.1	7	6.7	6.6	6.6	6.4	6.4	6.3	6.3	6.3	6.2	75
80	9	8.9	8.9	6.9	6.8	6.8	6.7	6.6	6.6	7.2	7	6.8	7.1	6.9	6.8	6.5	6.5	6.5	6.3	6.2	6.2	6.2	6.1	6.1	80
85	8.7	8.6	8.7	6.7	6.6	6.6	6.5	6.5	6.4	7	6.8	6.6	6.9	6.7	6.6	6.4	6.3	6.3	6.2	6.1	6.1	6.1	6	6.1	85
90	8.4	8.3	8.4	6.6	6.5	6.3	6.4	6.3	6.2	6.8	6.5	6.4	6.7	6.5	6.4	6.2	6.2	6.2	6.1	6	6	6	5.9	5.9	90
95	8.1	8.1	8.1	6.4	6.3	6.1	6.2	6.1	6.1	6.6	6.3	6.2	6.5	6.3	6.2	6.1	6	6	5.9	5.8	5.9	5.8	5.8	5.8	95
100	7.8	7.8	7.8	6.2	6.1	5.9	6	5.9	5.9	6.4	6.2	6.1	6.4	6.1	6	5.9	5.8	5.8	5.8	5.7	5.7	5.7	5.6	5.7	100
105	7.6	7.5	7.5	6	5.9	5.8	5.9	5.8	5.7	6.2	6	5.9	6.2	6	5.8	5.8	5.7	5.7	5.6	5.5	5.6	5.6	5.5	5.5	105
110	7.3	7.2	7.3	5.8	5.7	5.6	5.7	5.6	5.5	6	5.8	5.7	6	5.8	5.7	5.6	5.5	5.5	5.5	5.4	5.4	5.4	5.4	5.4	110
115	7	7	7	5.6	5.5	5.5	5.5	5.4	5.4	5.8	5.6	5.6	5.8	5.6	5.5	5.5	5.4	5.4	5.3	5.3	5.3	5.3	5.2	5.3	115
120	6.6	6.7	6.8	5.4	5.3	5.3	5.3	5.3	5.2	5.6	5.5	5.4	5.6	5.4	5.4	5.3	5.2	5.3	5.2	5.1	5.2	5.2	5.1	5.1	120
125	6	6.4	6.5	5.3	5.2	5.1	5.1	5.1	5.1	5.4	5.3	5.2	5.4	5.3	5.2	5.2	5.1	5.1	5	5	5	5	5	5	125
130	5.4	5.9	6.3	5.1	5	5	4.9	4.9	4.9	5.3	5.1	5.1	5.3	5.1	5.1	5	4.9	5	4.9	4.9	4.9	4.8	4.9	4.9	130
135	5.2	5.4	5.7	4.9	4.8	4.8	4.8	4.8	4.8	4.9	5	5	4.8	5	5	4.8	4.8	4.8	4.7	4.7	4.8	4.5	4.7	4.8	135
140	4.9	4.9	5.1	4.7	4.7	4.7	4.6	4.6	4.7	4.4	4.8	4.8	4.3	4.8	4.8	4.4	4.7	4.7	4.2	4.5	4.6	4.1	4.5	4.6	140
145	4.6	4.7	4.7	4.5	4.5	4.6	4.3	4.4	4.5	3.9	4.4	4.6	3.7	4.3	4.6	3.9	4.3	4.6	3.7	4.3	4.4	3.5	4.1	4.4	145
150	4.1	4.5	4.6	4.1	4.4	4.4	4	4.2	4.3	3.4	3.9	4.2	3.3	3.8	4.2	3.4	3.9	4.2	3.2	3.7	4.1	3.1	3.6	4	150
155	3.7	4	4.3	3.7	4.1	4.2	3.6	3.9	4.1	3	3.4	3.8	2.8	3.3	3.7	2.9	3.4	3.8	2.8	3.3	3.6	2.6	3.1	3.5	155
160	3.2	3.6	3.8	3.2	3.6	3.9	3.1	3.6	3.8	2.5	3	3.3	2.4	2.9	3.2	2.5	3	3.3	2.3	2.8	3.1	2.2	2.7	3	160
165	2.8	3.2	3.4	2.8	3.2	3.4	2.7	3.1	3.4	2.1	2.5	2.8	1.9	2.4	2.7	2.1	2.5	2.8	1.9	2.4	2.7	1.8	2.3	2.6	165
170	2.3	2.7	2.9	2.4	2.8	3	2.3	2.7	2.9	1.6	2.1	2.4	1.4	2	2.2	1.6	2.1	2.4	1.5	2	2.3		1.8	2.1	170
175	1.9	2.3	2.5	2	2.3	2.5	1.9	2.3	2.5		1.7	1.9		1.5	1.8		1.7	2		1.5	1.8		1.3	1.7	175
180	1.6	1.9	2	1.6	1.9	2.1	1.5	1.9	2			1.4						1.5			1.3				180
185		1.5	1.6		1.6	1.7		1.4	1.6																185

t_197_004_00001_00_000

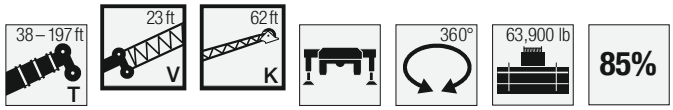
Lifting capacities
Forces de levage



	38 ft + 23 ft			111 ft + 23 ft			115 ft + 23 ft			117 ft + 23 ft			123 ft + 23 ft			130 ft + 23 ft			135 ft + 23 ft			142 ft + 23 ft			
	K 62 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	19																								12
13	18.9																								13
14	18.8																								14
15	18.7																								15
16	18.6																								16
17	18.5																								17
18	18.4																								18
19	18.2																								19
20	18																								20
22	17.7																								22
24	17.3			13.1																					24
26	16.8			13																					26
28	16.4			12.9			8.9			8.7			12.7													28
30	15.9			12.9			8.9			8.7			12.6						11.3							30
32	15.4			12.8			8.9			8.7			12.5			8.1			11.2							32
34	15	11		12.7			8.9			8.7			12.4			8.1			11.1			7.3				34
36	14.6	10.7		12.6			8.9			8.7			12.4			8			11.1			7.3				36
38	14.1	10.4		12.5			8.7			8.6			12.3			8			11			7.3				38
40	13.7	10.2		12.4			8.6			8.4			12.2			7.9			11			7.2				40
45	12.6	9.7		12.2			8.4			8.2			12			7.6			10.8			6.9				45
50	11.7	9.3	7.9	11.8	9.5		8.1			7.9			11.7	9.6		7.4			10.7			6.7				50
55	10.9	8.9	7.7	11.5	9.3		7.9	7.5		7.7	7.2		11.5	9.3		7.2	6.8		10.5	9.1		6.6				55
60	10.1	8.6	7.5	11.2	9		7.6	7.3		7.5	7.1		11.2	9.1		7.1	6.8		10.4	8.9		6.4	6.1			60
65	9.3	8.3	7.3	10.8	8.8	7.5	7.3	6.9		7.2	6.8		10.9	8.9		6.9	6.7		10.2	8.7		6.3	6			65
70	8.6	8	7.2	10.5	8.6	7.3	6.9	6.6	6.4	6.9	6.5	6.4	10.6	8.7	7.4	6.7	6.4		10	8.5	7.3	6.2	5.9			70
75	8.1	7.7	7.1	10.1	8.4	7.2	6.6	6.3	6.1	6.5	6.2	6.1	10.3	8.5	7.3	6.5	6.1	6	9.7	8.4	7.2	6.1	5.9			75
80	7.5	7.4	7	9.8	8.2	7.2	6.3	5.9	5.9	6.2	5.9	5.8	10	8.3	7.2	6.2	5.9	5.7	9.5	8.2	7.1	6	5.7	5.6		80
85	7	7	6.7	9.4	8	7.1	5.9	5.7	5.6	5.9	5.6	5.5	9.7	8.1	7.1	5.9	5.6	5.5	9.2	8.1	7.1	5.7	5.5	5.4		85
90	6.6	6.6	6.5	9.1	7.8	7	5.6	5.4	5.3	5.6	5.4	5.3	9.4	8	7	5.6	5.4	5.3	9	7.9	7	5.5	5.2	5.2		90
95	6.2	6.3	6.2	8.7	7.6	6.9	5.3	5.2	5.1	5.3	5.2	5.1	9	7.8	7	5.3	5.1	5	8.8	7.7	6.9	5.3	5	5		95
100	5.9	5.9	5.9	8.4	7.4	6.8	5	4.9	4.9	5	4.9	4.9	8.7	7.6	6.8	5.1	4.9	4.8	8.5	7.5	6.9	5	4.9	4.8		100
105	5.6	5.6	5.7	8.1	7.2	6.7	4.8	4.7	4.7	4.8	4.7	4.7	8.4	7.4	6.7	4.9	4.7	4.6	8.2	7.3	6.7	4.8	4.7	4.6		105
110	5.3	5.4		7.7	6.9	6.5	4.6	4.5	4.5	4.6	4.5	4.5	8.1	7.2	6.6	4.7	4.5	4.5	7.9	7.1	6.6	4.6	4.5	4.4		110
115	5.1			7.4	6.7	6.3	4.4	4.3	4.3	4.4	4.3	4.3	7.8	7	6.5	4.5	4.3	4.3	7.7	6.9	6.4	4.5	4.3	4.3		115
120				7.2	6.5	6.2	4.1	4.1	4.1	4.2	4.1	4.1	7.4	6.8	6.4	4.3	4.1	4.1	7.2	6.7	6.3	4.3	4.1	4.1		120
125				6.9	6.3	6.1	3.9	3.9	3.9	4	3.9	3.9	7	6.6	6.2	4.1	4	4	6.9	6.5	6.1	4.1	4	4		125
130				6.7	6.1	5.9	3.8	3.7	3.8	3.8	3.7	3.7	6.7	6.4	6.1	3.9	3.8	3.8	6.3	6.3	6	3.9	3.8	3.8		130
135				6.5	6	5.8	3.6	3.6	3.6	3.6	3.6	3.6	6.3	6.2	6	3.7	3.7	3.7	5.8	6	5.9	3.8	3.7	3.7		135
140				6.2	5.8	5.7	3.4	3.4	3.4	3.4	3.4	3.4	5.8	6	5.8	3.6	3.5	3.5	5.5	5.8	5.8	3.6	3.6	3.6		140
145				5.8	5.7	5.6	3.3	3.3	3.3	3.3	3.3	3.3	5.3	5.7	5.7	3.4	3.4	3.4	5.2	5.5	5.6	3.5	3.4	3.4		145
150				5.3	5.5	5.5	3.1	3.1	3.2	3.1	3.1	3.2	4.9	5.4	5.5	3.3	3.3	3.3	4.8	5.1	5.4	3.4	3.3	3.3		150
155				4.9	5.4	5.4	3	3	3.1	2.9	3	3	4.7	4.9	5.3	3.1	3.1	3.2	4.3	4.9	5	3.2	3.2	3.2		155
160				4.5	4.9	5.1	2.9	2.9	2.9	2.8	2.8	2.9	4.4	4.5	4.8	3	3	3	4	4.5	4.8	3.1	3.1	3.1		160
165				4	4.5	4.6	2.7	2.8	2.8	2.6	2.7	2.8	4.1	4.3	4.4	2.8	2.9	2.9	3.8	4.1	4.4	3	3	3		165
170				3.6	4	4.1	2.6	2.7	2.7	2.5	2.6	2.6	3.7	4.1	4.2	2.7	2.8	2.8	3.6	3.7	4	2.8	2.9	2.9		170
175				3.2	3.6	3.6	2.5	2.6	2.6	2.3	2.4	2.5	3.3	3.7	3.9	2.6	2.6	2.7	3.4	3.5	3.6	2.7	2.8	2.8		175
180				2.9	3.1		2.4	2.5	2.5	2.2	2.3	2.3	3	3.3	3.4	2.4	2.5	2.6	3	3.4	3.5	2.6	2.6	2.7		180
185				2.5	2.7		2.3	2.3		2.1	2.2		2.9	3	3	2.3	2.4	2.4	2.7	3.1	3.2	2.4	2.5	2.6		185
190							2.2	2.2		2	2.1		2.8	2.8	2.9	2.2	2.3	2.3	2.6	2.7	2.8	2.3	2.4	2.4		190
195										2			2.5	2.6		2.1	2.2	2.3	2.4	2.5	2.6	2.2	2.3	2.3		195
200													2.4			2.1	2.1		2.2	2.4	2.3	2	2.1	2.2		200
205																2			2	2.1		1.9	2	2		205
210																			1.7	1.8		1.7	1.8			210
215																						1.4	1.5			215

t_197_004_01001_00_000

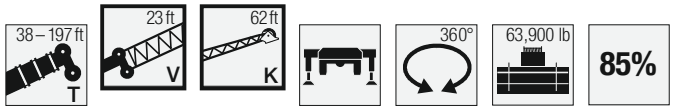
Lifting capacities
Forces de levage



	144 ft + 23 ft			148 ft + 23 ft			154 ft + 23 ft			156 ft + 23 ft			160 ft + 23 ft			166 ft + 23 ft			168 ft + 23 ft			170 ft + 23 ft			
	K 62 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°	
34	7.1			9.7																					34
36	7.1			9.7			6.8			6.6			8.5												36
38	7.1			9.7			6.8			6.6			8.5			6.2									38
40	7			9.6			6.8			6.6			8.5			6.2			5.9			5.7			40
45	6.8			9.6			6.6			6.4			8.5			6.1			6			5.8			45
50	6.6			9.5			6.4			6.2			8.4			5.9			5.8			5.6			50
55	6.4			9.4			6.2			6.1			8.3			5.7			5.6			5.5			55
60	6.3	6		9.4	8.5		6.1			6			8.1	7.4		5.6			5.5			5.4			60
65	6.2	5.9		9.3	8.4		6	5.7		5.8	5.6		7.9	7.4		5.5	5.2		5.4	5.1		5.3	5		65
70	6.1	5.8		9.2	8.2		5.9	5.6		5.7	5.5		7.7	7.4		5.4	5.2		5.3	5		5.2	4.9		70
75	6	5.8		9	8.1	7.1	5.8	5.6		5.6	5.4		7.5	7.3		5.3	5.1		5.2	5		5.1	4.9		75
80	5.8	5.7	5.5	8.9	8	7	5.6	5.6	5.3	5.6	5.4	5.2	7.4	7.2	6.7	5.2	5.1		5.1	5		5	4.9		80
85	5.6	5.4	5.3	8.7	7.8	7	5.5	5.4	5.3	5.4	5.3	5.1	7.3	7.1	6.7	5.2	5.1	4.9	5	4.9	4.7	4.9	4.8	4.7	85
90	5.4	5.2	5.1	8.4	7.6	6.9	5.3	5.2	5.1	5.3	5.2	5.1	7.2	7.1	6.7	5.1	5	4.9	4.9	4.9	4.8	4.9	4.8	4.7	90
95	5.2	5	4.9	8.2	7.4	6.9	5.2	5	4.9	5.1	5	4.9	7.1	7	6.6	5	4.9	4.8	4.8	4.8	4.7	4.8	4.8	4.7	95
100	5	4.8	4.7	8	7.2	6.7	5	4.8	4.8	5	4.8	4.7	7	6.9	6.4	4.8	4.7	4.7	4.7	4.7	4.6	4.7	4.6	4.6	100
105	4.8	4.7	4.6	7.8	7.1	6.6	4.8	4.7	4.6	4.8	4.6	4.6	6.9	6.7	6.3	4.7	4.6	4.5	4.6	4.6	4.5	4.6	4.5	4.5	105
110	4.6	4.5	4.4	7.6	6.9	6.4	4.7	4.5	4.4	4.6	4.5	4.4	6.8	6.5	6.2	4.5	4.4	4.4	4.5	4.4	4.3	4.5	4.4	4.3	110
115	4.4	4.3	4.3	7.3	6.7	6.3	4.5	4.3	4.3	4.5	4.3	4.3	6.7	6.4	6.1	4.4	4.3	4.2	4.4	4.3	4.2	4.3	4.2	4.2	115
120	4.3	4.2	4.1	6.9	6.5	6.1	4.3	4.2	4.1	4.3	4.2	4.1	6.5	6.3	6	4.3	4.2	4.1	4.2	4.1	4.1	4.2	4.1	4.1	120
125	4.1	4	4	6.3	6.3	6	4.2	4	4	4.1	4	4	6.2	6.1	5.8	4.1	4	4	4.1	4	4	4.1	4	3.9	125
130	3.9	3.8	3.8	6.1	6.2	5.9	4	3.9	3.8	4	3.9	3.9	5.7	6	5.7	4	3.9	3.9	4	3.9	3.8	4	3.9	3.8	130
135	3.8	3.7	3.7	5.7	5.9	5.8	3.9	3.7	3.7	3.9	3.7	3.7	5.1	5.8	5.6	3.9	3.8	3.7	3.9	3.7	3.7	3.8	3.7	3.7	135
140	3.6	3.6	3.6	5.2	5.6	5.7	3.7	3.6	3.6	3.7	3.6	3.6	4.9	5.5	5.5	3.7	3.6	3.6	3.7	3.6	3.6	3.7	3.6	3.6	140
145	3.5	3.4	3.4	4.7	5.4	5.5	3.6	3.5	3.5	3.6	3.5	3.5	4.7	5	5.4	3.6	3.5	3.5	3.6	3.5	3.5	3.6	3.5	3.5	145
150	3.3	3.3	3.3	4.5	5	5.3	3.4	3.4	3.4	3.4	3.4	3.4	4.3	4.6	5.1	3.5	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.4	150
155	3.1	3.2	3.2	4.3	4.5	5	3.3	3.3	3.3	3.3	3.3	3.3	3.9	4.4	4.6	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	155
160	3	3.1	3.1	4	4.2	4.5	3.2	3.2	3.2	3.1	3.2	3.2	3.5	4.1	4.4	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	160
165	2.8	2.9	3	3.6	4	4.1	3.1	3.1	3.1	3	3.1	3.1	3.2	3.7	4.1	3.1	3.1	3.1	3	3.1	3.1	3.1	3.1	3.1	165
170	2.7	2.8	2.9	3.2	3.8	3.9	2.9	3	3	2.8	2.9	3	3.1	3.3	3.8	3	3	3	2.9	3	3	2.9	3	3	170
175	2.5	2.7	2.7	3	3.4	3.7	2.8	2.9	2.9	2.7	2.8	2.9	2.8	3	3.3	2.8	2.9	2.9	2.7	2.9	2.9	2.6	2.9	2.9	175
180	2.4	2.5	2.6	2.8	3	3.3	2.7	2.8	2.8	2.6	2.7	2.8	2.5	2.9	2.9	2.4	2.8	2.9	2.4	2.8	2.8	2.3	2.8	2.8	180
185	2.2	2.3	2.4	2.7	2.7	2.8	2.6	2.7	2.7	2.4	2.5	2.6	2.1	2.6	2.8	2.1	2.6	2.8	2.1	2.6	2.7	2	2.6	2.7	185
190	2.1	2.2	2.2	2.4	2.6	2.7	2.4	2.5	2.6	2.3	2.4	2.5	1.8	2.3	2.6	1.8	2.3	2.6	1.7	2.3	2.5	1.6	2.2	2.5	190
195	2	2.1	2.1	2.1	2.5	2.6	2	2.4	2.5	2	2.3	2.3	1.5	2	2.2	1.4	2	2.2	1.4	1.9	2.2		1.9	2.2	195
200	1.9	1.9	2	1.8	2.1	2.2	1.7	2.1	2.3	1.7	2.1	2.2		1.6	1.8		1.6	1.9		1.6	1.8		1.5	1.8	200
205	1.7	1.8	1.8	1.5	1.8	1.9	1.5	1.8	1.9	1.4	1.8	1.9			1.5			1.5			1.5			1.4	205
210	1.6	1.7			1.5	1.5		1.5	1.5		1.4	1.5													210
215		1.5																							215

t_197_004_01001_00_000

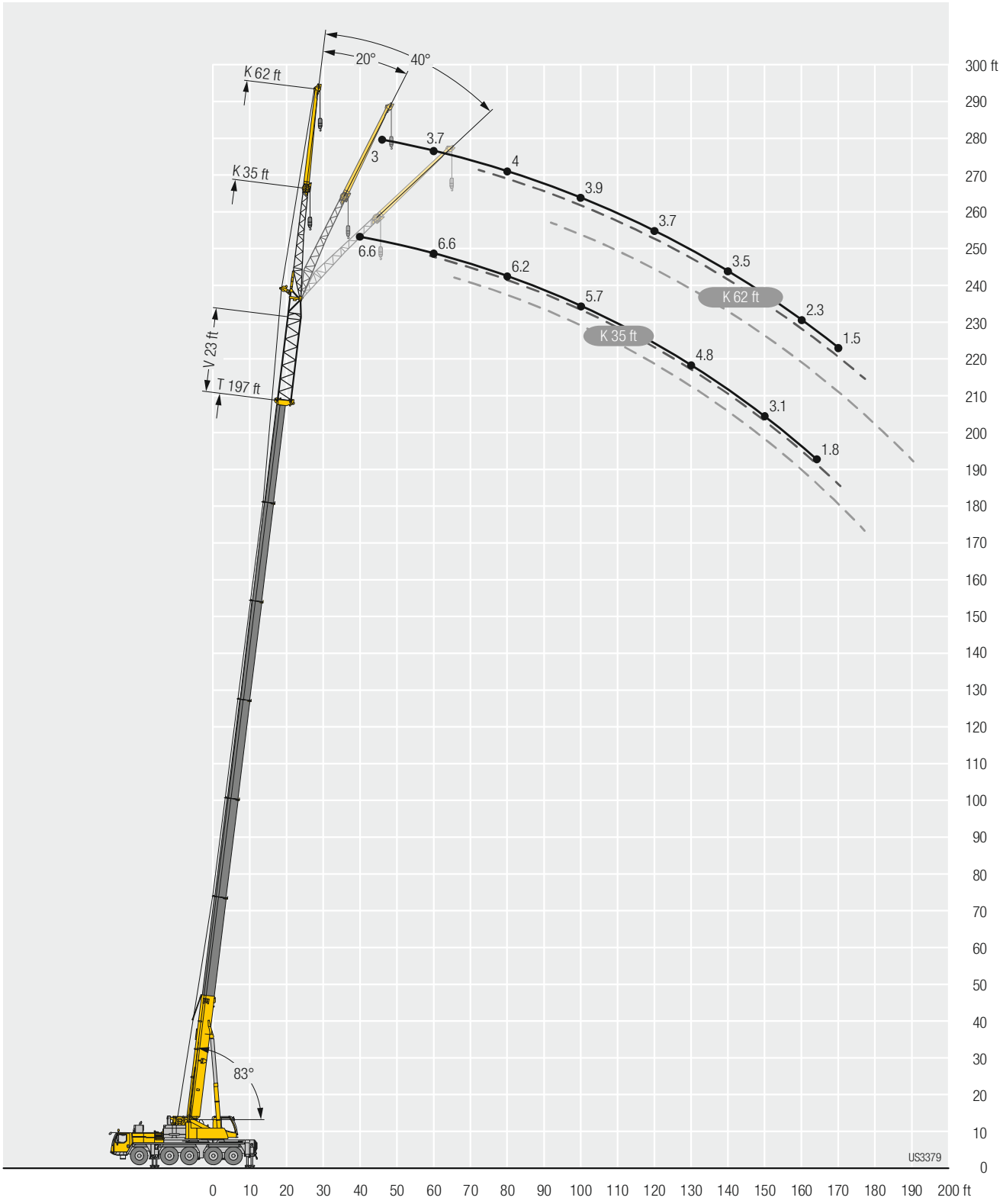
Lifting capacities
Forces de levage



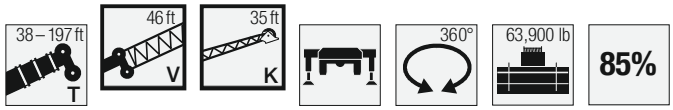
	172 ft + 23 ft			178 ft + 23 ft			182 ft + 23 ft			184 ft + 23 ft			186 ft + 23 ft			191 ft + 23 ft			195 ft + 23 ft			197 ft + 23 ft			
	K 62 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
40	7			5.1																					40
45	7			5.3			4.7			5.2			4.9			3.9			3.3			3			45
50	7			5.4			5			5.3			5.1			4.2			3.5			3.2			50
55	6.8			5.3			5			5.3			5.1			4.4			3.8			3.5			55
60	6.6			5.2			5			5.3			5.1			4.5			4			3.7			60
65	6.4	6		5.1			4.9			5.2			5.1			4.5			4.1			3.9			65
70	6.2	6		5	4.8		4.8	4.5		5.1	4.8		5	4.7		4.5	4.3		4.1	4		3.9			70
75	6.2	6		4.9	4.7		4.7	4.5		5	4.8		4.9	4.7		4.5	4.3		4.2	4		4	4		75
80	6.1	5.9		4.8	4.6		4.6	4.5		4.9	4.8		4.8	4.7		4.4	4.2		4.2	4		4	3.9		80
85	6	5.9	5.6	4.8	4.6	4.5	4.5	4.5		4.9	4.7	4.6	4.8	4.6		4.3	4.2		4.1	4		4	3.9		85
90	5.9	5.8	5.7	4.7	4.6	4.5	4.5	4.4	4.3	4.8	4.7	4.6	4.7	4.6	4.5	4.3	4.2	4.1	4.1	4	3.9	4	3.9	3.8	90
95	5.9	5.8	5.6	4.7	4.6	4.6	4.5	4.4	4.3	4.8	4.6	4.5	4.7	4.5	4.4	4.2	4.2	4.1	4	4	3.9	3.9	3.9	3.8	95
100	5.8	5.8	5.6	4.6	4.6	4.5	4.4	4.3	4.3	4.7	4.6	4.5	4.6	4.5	4.4	4.2	4.2	4.1	4	4	3.9	3.9	3.8	3.8	100
105	5.7	5.8	5.6	4.5	4.5	4.5	4.3	4.3	4.3	4.6	4.5	4.5	4.5	4.5	4.4	4.1	4.1	4.1	3.9	3.9	3.9	3.8	3.8	3.8	105
110	5.7	5.7	5.6	4.4	4.4	4.3	4.2	4.2	4.3	4.5	4.4	4.4	4.4	4.4	4.4	4.1	4.1	4.1	3.9	3.9	3.9	3.8	3.8	3.9	110
115	5.6	5.6	5.6	4.3	4.3	4.2	4.2	4.2	4.2	4.4	4.3	4.3	4.3	4.3	4.3	4	4.1	4.1	3.8	3.9	3.8	3.7	3.8	3.8	115
120	5.5	5.4	5.6	4.2	4.1	4.1	4.1	4.1	4	4.3	4.2	4.1	4.2	4.2	4.1	3.9	4	4	3.8	3.9	3.8	3.7	3.8	3.8	120
125	5.4	5.3	5.5	4.1	4	4	4	4	3.9	4.2	4.1	4	4.1	4	4	3.9	3.9	3.9	3.7	3.9	3.8	3.7	3.8	3.8	125
130	5.3	5.2	5.4	4	3.9	3.9	3.9	3.8	3.8	4.1	4	3.9	4	3.9	3.9	3.8	3.8	3.8	3.7	3.8	3.7	3.6	3.7	3.7	130
135	5	5	5.2	3.9	3.8	3.7	3.8	3.7	3.7	4	3.8	3.8	3.9	3.8	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.6	3.6	3.6	135
140	4.6	4.9	5	3.8	3.6	3.6	3.7	3.6	3.6	3.8	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	140
145	4	4.8	4.9	3.6	3.5	3.5	3.6	3.5	3.5	3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.5	3.4	3.5	3.5	3.4	3.4	3.5	145
150	3.6	4.4	4.7	3.5	3.4	3.4	3.5	3.4	3.4	3.4	3.5	3.5	3.3	3.5	3.5	3.4	3.4	3.4	3.2	3.4	3.4	3.1	3.4	3.4	150
155	3.5	4	4.5	3.4	3.3	3.3	3.4	3.3	3.3	3.1	3.4	3.4	2.9	3.4	3.4	3	3.3	3.3	2.8	3.3	3.3	2.7	3.3	3.3	155
160	3.4	3.5	4.2	3.3	3.2	3.2	3.2	3.2	3.2	2.7	3.3	3.3	2.5	3.3	3.3	2.6	3.2	3.2	2.4	3.1	3.2	2.3	3.1	3.2	160
165	3.1	3.2	3.7	3	3.1	3.1	2.8	3.1	3.1	2.3	3	3.2	2.1	3	3.2	2.2	3	3.1	2.1	2.9	3.1	1.9	2.8	3.1	165
170	2.7	3.1	3.3	2.6	3	3.1	2.5	3	3	1.9	2.7	3.1	1.7	2.6	3.1	1.8	2.6	3.1	1.6	2.5	2.9	1.5	2.4	3	170
175	2.3	2.9	3.1	2.3	2.9	3	2.1	2.8	2.9	1.4	2.3	2.8		2.2	2.7	1.4	2.3	2.8		2.1	2.7		2	2.6	175
180	1.9	2.6	3	1.9	2.6	2.9	1.8	2.5	2.9		1.9	2.4		1.8	2.3		1.9	2.4		1.7	2.3		1.6	2.2	180
185	1.6	2.2	2.6	1.6	2.2	2.7	1.4	2.1	2.5		1.5	2		1.3	1.9		1.5	2			1.9			1.8	185
190		1.9	2.2		1.9	2.3		1.8	2.2			1.6			1.5			1.6			1.5			1.4	190
195		1.5	1.8		1.5	1.9		1.4	1.8																195
200			1.4			1.5			1.4																200

t_197_004_01001_00_000

Lifting heights
Hauteurs de levage



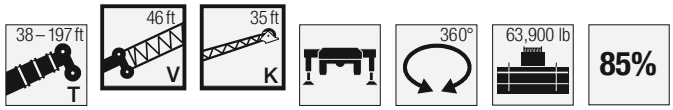
Lifting capacities
Forces de levage



	38 ft + 46 ft			111 ft + 46 ft			115 ft + 46 ft			117 ft + 46 ft			123 ft + 46 ft			130 ft + 46 ft			135 ft + 46 ft			142 ft + 46 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
12	32.5																								12
13	32.5																								13
14	32.5																								14
15	32.5																								15
16	32.4																								16
17	32.3																								17
18	31.9																								18
19	31.4																								19
20	30.4																								20
22	28.4																								22
24	26.6	23.5																							24
26	24.9	22.1		19.7																					26
28	23.4	20.9		19.4			9.6			9.3			19												28
30	22.1	19.8		19.1			9.6			9.3			18.8						14.5						30
32	21	18.7	17.3	18.7			9.6			9.3			18.5			8.5			14.5						32
34	19.9	17.7	16.4	18.3			9.5			9.2			18.1			8.5			14.5			7.5			34
36	18.8	16.7	15.6	17.9			9.4			9.1			17.8			8.4			14.4			7.5			36
38	17.8	15.9	14.9	17.5	15.3		9.2			9			17.5			8.4			14.3			7.5			38
40	16.7	15.2	14.2	17.1	14.9		9.1			8.9			17.2	15.3		8.3			14.2			7.5			40
45	14.4	13.6	12.7	15.9	13.9		8.8	8.6		8.6	8.5		16.3	14.4		8.1	8		13.7	12.8		7.3			45
50	12.7	12	11.5	14.8	13	11.8	8.4	8.1		8.2	8		15.3	13.5	12.3	7.8	7.7		13.2	12.2		7.2	7.1		50
55	11.4	10.7	10.4	13.8	12.1	11.1	7.9	7.7	7.6	7.8	7.6	7.5	14.4	12.7	11.5	7.5	7.3	7.2	12.6	11.6	10.7	6.9	6.9		55
60	10.1	9.7	9.4	13	11.4	10.5	7.4	7.2	7.1	7.3	7.2	7.1	13.4	11.9	10.9	7.2	7	6.9	12.1	11	10.2	6.7	6.7	6.6	60
65	9.2	8.9	8.7	12.2	10.7	9.9	7	6.8	6.8	6.9	6.8	6.7	12.7	11.2	10.3	6.8	6.6	6.6	11.5	10.4	9.7	6.5	6.4	6.3	65
70	8.5	8.2	8.1	11.4	10.2	9.5	6.6	6.4	6.4	6.6	6.4	6.3	12	10.5	9.8	6.4	6.3	6.2	10.9	9.9	9.3	6.2	6.1	6	70
75	7.8	7.6	7.5	10.6	9.7	9.1	6.3	6.1	6	6.2	6.1	6	11.3	10.1	9.4	6.1	6	5.9	10.5	9.5	9	5.9	5.8	5.7	75
80	7.2	7.1	7	9.9	9.2	8.7	5.9	5.8	5.7	5.9	5.8	5.7	10.5	9.6	9	5.8	5.7	5.6	10	9.1	8.6	5.7	5.5	5.5	80
85	6.8	6.6	6.6	9.3	8.7	8.4	5.5	5.5	5.4	5.5	5.5	5.4	9.9	9.2	8.7	5.5	5.4	5.4	9.6	8.8	8.3	5.4	5.3	5.2	85
90	6.3	6.2	6.2	8.9	8.3	8	5.2	5.2	5.2	5.2	5.1	5.1	9.3	8.8	8.3	5.2	5.1	5.1	9.1	8.5	8.1	5.2	5	5	90
95	5.8	5.8	5.8	8.5	8	7.7	4.9	4.9	4.9	4.9	4.8	4.9	8.9	8.4	8	4.9	4.9	4.9	8.7	8.1	7.8	4.9	4.8	4.8	95
100	5.5	5.5	5.5	8.1	7.6	7.4	4.6	4.6	4.6	4.6	4.6	4.6	8.5	8	7.7	4.7	4.6	4.7	8.3	7.8	7.5	4.7	4.6	4.6	100
105	5.2	5.1	5.2	7.8	7.4	7.1	4.4	4.3	4.4	4.4	4.4	4.4	8.2	7.7	7.4	4.5	4.4	4.4	8	7.5	7.3	4.4	4.4	4.4	105
110	4.9	4.9		7.4	7.1	6.9	4.2	4.1	4.2	4.2	4.1	4.1	7.8	7.4	7.1	4.3	4.2	4.2	7.7	7.2	7	4.2	4.2	4.2	110
115				7.1	6.8	6.6	3.9	3.9	3.9	4	3.9	3.9	7.4	7.1	6.9	4	4	4	7.2	7	6.8	4	4	4	115
120				6.8	6.5	6.4	3.7	3.7	3.8	3.7	3.7	3.7	7	6.9	6.7	3.8	3.8	3.8	6.9	6.8	6.6	3.9	3.8	3.8	120
125				6.5	6.3	6.2	3.5	3.5	3.6	3.5	3.5	3.5	6.6	6.5	6.5	3.6	3.6	3.7	6.4	6.4	6.4	3.7	3.6	3.7	125
130				6.3	6	5.9	3.3	3.3	3.4	3.3	3.3	3.4	6.2	6.2	6.2	3.4	3.5	3.5	5.7	6.1	6.1	3.5	3.5	3.5	130
135				6	5.9	5.8	3.2	3.1	3.2	3.2	3.2	3.2	5.7	5.9	5.9	3.3	3.3	3.3	5.3	5.7	5.8	3.4	3.4	3.4	135
140				5.5	5.7	5.6	3	3	3	3	3	3	5.2	5.6	5.6	3.1	3.1	3.2	5	5.1	5.4	3.2	3.2	3.2	140
145				5.1	5.4	5.5	2.8	2.9	2.9	2.8	2.8	2.9	4.7	5	5.3	3	3	3	4.6	4.9	4.9	3.1	3.1	3.1	145
150				4.6	5	5.1	2.7	2.7	2.7	2.6	2.7	2.7	4.4	4.6	4.7	2.8	2.8	2.9	4.2	4.5	4.7	2.9	2.9	3	150
155				4.1	4.5	4.6	2.6	2.6	2.6	2.5	2.5	2.5	4.2	4.3	4.3	2.7	2.7	2.7	3.7	4.1	4.3	2.8	2.8	2.8	155
160				3.6	4	4.1	2.4	2.5	2.5	2.3	2.4	2.4	3.8	4.1	4.1	2.5	2.6	2.6	3.5	3.6	3.8	2.7	2.7	2.7	160
165				3.2	3.5	3.6	2.3	2.3	2.3	2.2	2.2	2.2	3.4	3.7	3.8	2.4	2.4	2.5	3.3	3.4	3.5	2.5	2.6	2.6	165
170				2.8	3	3.1	2.2	2.2	2.2	2	2.1	2.1	2.9	3.2	3.3	2.3	2.3	2.3	3	3.2	3.3	2.4	2.4	2.5	170
175				2.4	2.6	2.6	2	2.1	2.1	1.9	1.9	1.9	2.7	2.8	2.9	2.1	2.2	2.2	2.6	2.9	3	2.2	2.3	2.3	175
180				2.1	2.2		1.9	2	2	1.8	1.8	1.8	2.6	2.6	2.6	2	2	2.1	2.3	2.5	2.6	2.1	2.2	2.2	180
185							1.8	1.8		1.7	1.7	1.7	2.4	2.5	2.5	1.9	1.9	1.9	2.2	2.3	2.3	2	2	2.1	185
190										1.6	1.6		2.1	2.2	2.1	1.8	1.8	1.8	2	2.1	2.2	1.8	1.9	1.9	190
195													2	2		1.7	1.7	1.7	1.8	1.9	1.9	1.7	1.7	1.8	195
200																1.6	1.7		1.5	1.6	1.6	1.5	1.6	1.6	200

t_197_004_02001_00_000

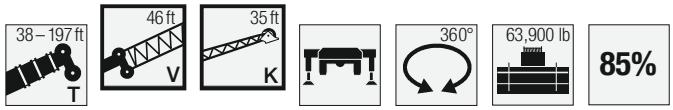
Lifting capacities
Forces de levage



	144 ft + 46 ft			148 ft + 46 ft			154 ft + 46 ft			156 ft + 46 ft			160 ft + 46 ft			166 ft + 46 ft			168 ft + 46 ft			170 ft + 46 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
34	7.3			11.5																					34
36	7.3			11.5			6.9			6.7			9.1												36
38	7.3			11.5			6.9			6.7			9.1			6.2									38
40	7.3			11.5			6.9			6.7			9.1			6.2			6			5.8			40
45	7.2			11.3			6.9			6.7			9.2			6.2			6			5.9			45
50	7	7		11	10.5		6.7	6.7		6.6			9.1	9		6.2			6			5.9			50
55	6.8	6.8		10.6	10.1		6.6	6.6		6.4	6.4		9.1	8.8		6.1	6.1		5.9	5.9		5.8	5.8		55
60	6.6	6.6	6.5	10.3	9.8	9.3	6.4	6.4		6.3	6.3		8.9	8.6	8.4	5.9	5.9		5.8	5.8		5.7	5.7		60
65	6.4	6.3	6.2	10	9.4	9	6.2	6.2	6.1	6.1	6.1	6.1	8.7	8.4	8.2	5.8	5.8	5.8	5.7	5.7	5.6	5.6	5.6	5.5	65
70	6.1	6	5.9	9.7	9.1	8.7	6	5.9	5.9	5.9	5.9	5.8	8.5	8.2	8	5.6	5.6	5.7	5.5	5.5	5.6	5.4	5.4	5.5	70
75	5.9	5.7	5.7	9.3	8.8	8.4	5.8	5.7	5.6	5.7	5.6	5.6	8.3	8	7.8	5.5	5.4	5.4	5.4	5.3	5.4	5.3	5.3	5.3	75
80	5.6	5.5	5.4	9.1	8.5	8.1	5.6	5.5	5.4	5.5	5.4	5.3	8.1	7.8	7.5	5.3	5.3	5.3	5.2	5.2	5.2	5.1	5.1	5.1	80
85	5.4	5.2	5.2	8.8	8.2	7.9	5.3	5.2	5.2	5.3	5.2	5.1	7.9	7.5	7.3	5.1	5.1	5.1	5	5	5	5	5	4.9	85
90	5.1	5	5	8.4	7.9	7.6	5.1	5	5	5.1	5	4.9	7.7	7.3	7.1	5	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.8	90
95	4.9	4.8	4.8	8.1	7.7	7.4	4.9	4.8	4.8	4.9	4.7	4.7	7.4	7.1	6.9	4.8	4.7	4.7	4.7	4.6	4.6	4.7	4.6	4.6	95
100	4.7	4.6	4.6	7.8	7.4	7.2	4.7	4.6	4.6	4.7	4.6	4.5	7.1	6.9	6.7	4.6	4.5	4.5	4.5	4.5	4.4	4.5	4.4	4.4	100
105	4.4	4.4	4.4	7.6	7.2	7	4.5	4.4	4.4	4.5	4.4	4.4	6.9	6.7	6.6	4.4	4.4	4.3	4.4	4.3	4.3	4.3	4.3	4.2	105
110	4.2	4.2	4.2	7.3	6.9	6.7	4.3	4.2	4.2	4.3	4.2	4.2	6.6	6.5	6.4	4.2	4.2	4.1	4.2	4.2	4.1	4.2	4.1	4.1	110
115	4	4	4	7.1	6.7	6.5	4.1	4	4	4.1	4	4	6.3	6.3	6.2	4.1	4	4	4	4	4	4	4	3.9	115
120	3.9	3.8	3.8	6.4	6.5	6.3	3.9	3.9	3.9	3.9	3.8	3.9	6.1	6.1	6.1	3.9	3.9	3.8	3.9	3.8	3.8	3.9	3.8	3.8	120
125	3.7	3.6	3.7	5.9	6.2	6.2	3.7	3.7	3.7	3.7	3.7	3.7	5.6	5.9	5.9	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	125
130	3.5	3.5	3.5	5.6	5.7	5.9	3.6	3.6	3.6	3.6	3.5	3.5	5	5.6	5.7	3.6	3.6	3.6	3.6	3.5	3.5	3.6	3.5	3.5	130
135	3.4	3.3	3.4	5.1	5.5	5.5	3.5	3.4	3.4	3.4	3.4	3.4	4.7	5.1	5.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	135
140	3.2	3.2	3.2	4.6	5.1	5.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.6	4.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	140
145	3	3.1	3.1	4.2	4.6	4.9	3.2	3.1	3.2	3.2	3.1	3.2	4.2	4.4	4.4	3.2	3.2	3.2	3.2	3.1	3.2	3.2	3.1	3.2	145
150	2.9	2.9	2.9	4	4.1	4.4	3	3	3	3	3	3	3.7	4.1	4.2	3.1	3	3.1	3	3	3	3	3	3	150
155	2.7	2.8	2.8	3.7	3.9	4	2.9	2.9	2.9	2.9	2.9	2.9	3.2	3.7	4	3	2.9	3	2.9	2.9	2.9	2.9	2.9	2.9	155
160	2.5	2.6	2.7	3.3	3.7	3.8	2.8	2.8	2.8	2.7	2.8	2.8	2.9	3.2	3.5	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.8	2.8	160
165	2.4	2.5	2.5	2.8	3.2	3.5	2.6	2.6	2.7	2.5	2.6	2.7	2.8	2.8	3	2.7	2.7	2.8	2.6	2.7	2.7	2.6	2.7	2.7	165
170	2.2	2.3	2.4	2.6	2.8	3	2.5	2.5	2.6	2.4	2.5	2.5	2.5	2.7	2.7	2.5	2.6	2.6	2.4	2.6	2.6	2.4	2.5	2.6	170
175	2.1	2.1	2.2	2.5	2.5	2.5	2.4	2.4	2.5	2.2	2.3	2.4	2.1	2.5	2.6	2.1	2.4	2.5	2.1	2.4	2.5	2	2.4	2.4	175
180	1.9	2	2	2.4	2.4	2.4	2.3	2.3	2.4	2.1	2.2	2.2	1.7	2.1	2.3	1.7	2.1	2.3	1.7	2.1	2.2	1.6	2	2.2	180
185	1.8	1.8	1.9	2	2.3	2.3	2	2.2	2.2	1.9	2	2.1	1.3	1.7	1.9	1.3	1.7	1.9		1.7	1.9		1.6	1.8	185
190	1.6	1.7	1.7	1.7	1.9	2	1.6	1.9	2	1.6	1.8	1.9		1.3	1.5			1.5			1.5			1.4	190
195	1.5	1.6	1.6	1.4	1.6	1.6		1.6	1.6		1.5	1.6													195
200	1.4	1.4	1.4																						200

t_197_004_02001_00_000

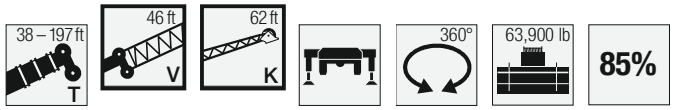
Lifting capacities
Forces de levage



	172 ft + 46 ft			178 ft + 46 ft			182 ft + 46 ft			184 ft + 46 ft			186 ft + 46 ft			191 ft + 46 ft			195 ft + 46 ft			197 ft + 46 ft			
	K 35 ft																								
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
40	7.3																								40
45	7.3			5.6			5.2			5.6			5.4			4.3			3.5			3.2			45
50	7.3			5.6			5.3			5.6			5.5			4.6			3.8			3.4			50
55	7.3	7.3		5.6			5.3			5.6			5.4			4.7			4			3.7			55
60	7.2	7.2		5.5	5.5		5.2	5.2		5.5	5.5		5.4	5.4		4.7	5		4.2	4.5		3.9	4.2		60
65	7.2	7.2	6.8	5.4	5.4		5.1	5.1		5.4	5.4		5.3	5.3		4.8	4.9		4.2	4.5		4	4.3		65
70	7.1	7	6.8	5.3	5.3	5.3	5	5.1	5	5.3	5.3	5.3	5.2	5.2	5.2	4.8	4.8	4.8	4.3	4.5		4.1	4.3		70
75	6.9	6.9	6.7	5.2	5.2	5.2	4.9	5	4.9	5.2	5.2	5.2	5.1	5.1	5.1	4.7	4.8	4.7	4.3	4.5	4.4	4.1	4.4	4.3	75
80	6.8	6.8	6.7	5	5	5.1	4.8	4.8	4.9	5.1	5.1	5.1	5	5	5	4.7	4.6	4.6	4.4	4.5	4.4	4.1	4.4	4.3	80
85	6.7	6.6	6.5	4.9	4.9	4.9	4.7	4.7	4.8	5	4.9	5	4.9	4.9	4.9	4.6	4.6	4.6	4.4	4.4	4.4	4.2	4.3	4.3	85
90	6.5	6.4	6.4	4.8	4.7	4.8	4.6	4.6	4.6	4.9	4.8	4.8	4.8	4.7	4.7	4.4	4.5	4.5	4.3	4.3	4.3	4.1	4.2	4.2	90
95	6.3	6.2	6.2	4.6	4.6	4.6	4.4	4.4	4.5	4.7	4.6	4.6	4.7	4.6	4.6	4.3	4.3	4.4	4.2	4.2	4.2	4.1	4.1	4.1	95
100	6.1	6.1	6.1	4.5	4.4	4.4	4.3	4.3	4.3	4.6	4.5	4.5	4.5	4.4	4.4	4.2	4.2	4.3	4.1	4.1	4.1	4	4	4.1	100
105	5.9	5.9	5.9	4.3	4.3	4.3	4.2	4.2	4.2	4.4	4.3	4.3	4.4	4.3	4.3	4.1	4.1	4.1	4	4	4	3.9	3.9	4	105
110	5.7	5.7	5.7	4.2	4.2	4.1	4.1	4	4	4.3	4.2	4.2	4.2	4.2	4.1	4	4	4	3.8	3.9	3.9	3.8	3.8	3.9	110
115	5.5	5.5	5.5	4	4	4	3.9	3.9	3.9	4.1	4.1	4	4.1	4	4	3.9	3.9	3.9	3.8	3.7	3.8	3.7	3.7	3.7	115
120	5.2	5.3	5.3	3.9	3.9	3.8	3.8	3.8	3.8	4	3.9	3.9	4	3.9	3.9	3.7	3.7	3.8	3.6	3.6	3.7	3.6	3.6	3.6	120
125	5.1	5.1	5.1	3.8	3.7	3.7	3.7	3.7	3.6	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.7	3.5	3.5	3.6	3.5	3.5	3.5	125
130	4.8	4.9	5	3.6	3.6	3.6	3.6	3.5	3.5	3.7	3.6	3.6	3.7	3.6	3.6	3.5	3.5	3.5	3.4	3.4	3.5	3.4	3.4	3.4	130
135	4.4	4.7	4.8	3.5	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.5	3.5	3.4	3.4	3.4	3.3	3.3	3.4	3.3	3.3	3.3	135
140	3.8	4.4	4.6	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.3	3.2	3.2	3.2	140
145	3.3	3.9	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.1	3.3	3.3	3.1	3.2	3.2	2.9	3.1	3.2	2.8	3.1	3.1	145
150	3.2	3.4	3.8	3.1	3.1	3.1	3.1	3.1	3.1	2.8	3.2	3.2	2.7	3.1	3.2	2.7	3	3.1	2.6	3	3.1	2.4	3	3	150
155	3.1	3.1	3.3	3	3	3	2.9	3	2.9	2.4	2.8	3.1	2.2	2.8	3	2.3	2.8	2.9	2.1	2.6	2.9	2	2.5	2.9	155
160	2.8	2.9	3	2.7	2.9	2.9	2.5	2.8	2.8	1.9	2.4	2.7	1.8	2.3	2.7	1.9	2.4	2.7	1.6	2.2	2.6	1.5	2.1	2.5	160
165	2.4	2.8	2.9	2.3	2.6	2.8	2.1	2.6	2.7	1.4	2	2.4		1.9	2.2	1.3	2	2.3		1.8	2.2		1.7	2	165
170	1.9	2.4	2.7	1.9	2.3	2.5	1.7	2.2	2.5		1.5	1.9		1.3	1.8		1.5	1.9			1.7			1.6	170
175	1.5	2	2.2	1.5	1.9	2.2		1.8	2.1			1.4						1.4							175
180		1.6	1.8		1.5	1.8		1.4	1.7																180
185			1.4			1.4																			185

t_197_004_02001_00_000

Lifting capacities
Forces de levage



	38 ft + 46 ft			111 ft + 46 ft			115 ft + 46 ft			117 ft + 46 ft			123 ft + 46 ft			130 ft + 46 ft			135 ft + 46 ft			142 ft + 46 ft			
	K 62 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°	
15	15.7																								15
16	15.6																								16
17	15.5																								17
18	15.5																								18
19	15.4																								19
20	15.4																								20
22	15.2																								22
24	15.1																								24
26	15																								26
28	14.9																								28
30	14.7			10.7																					30
32	14.4			10.6									10.5												32
34	14.2			10.5			6.7			6.4			10.4						9.2						34
36	14			10.5			6.7			6.5			10.4			5.8			9.2						36
38	13.7	10.6		10.4			6.8			6.5			10.3			5.9			9.2						38
40	13.2	10.4		10.4			6.8			6.5			10.2			6			9.2			5			40
45	12	9.9		10.2			6.6			6.4			10.1			6			9.1			5.3			45
50	10.8	9.6		9.9			6.4			6.2			10			5.8			9			5.2			50
55	9.7	9	7.8	9.6	8.6		6.2			6			9.7	8.8		5.6			8.8			5			55
60	8.8	8.4	7.6	9.2	8.2		5.9	5.7		5.8	5.5		9.4	8.5		5.4			8.5	7.9		4.9			60
65	8.1	7.8	7.4	8.8	7.9		5.7	5.6		5.6	5.5		9	8.1		5.3	5		8.3	7.6		4.8	4.5		65
70	7.5	7.2	7	8.4	7.5	6.9	5.4	5.4		5.4	5.3		8.6	7.7		5.1	5		8	7.3		4.6	4.5		70
75	6.9	6.7	6.6	8	7.2	6.7	5.2	5.1	5	5.1	5		8.3	7.4	6.8	5	4.9		7.7	7	6.5	4.6	4.4		75
80	6.4	6.2	6.2	7.6	6.9	6.4	4.9	4.8	4.8	4.8	4.8	4.8	7.9	7.1	6.6	4.8	4.7	4.6	7.4	6.8	6.3	4.5	4.4		80
85	5.9	5.8	5.8	7.3	6.6	6.1	4.6	4.6	4.6	4.6	4.5	4.6	7.6	6.8	6.3	4.5	4.4	4.5	7.2	6.5	6.1	4.3	4.3	4.1	85
90	5.5	5.5	5.4	6.9	6.3	5.9	4.4	4.3	4.4	4.3	4.3	4.3	7.3	6.5	6.1	4.3	4.2	4.3	6.9	6.2	5.9	4.2	4.1	4.1	90
95	5.2	5.1	5.1	6.6	6	5.7	4.1	4.1	4.1	4.1	4	4.1	6.9	6.3	5.9	4.1	4	4	6.6	6	5.7	4	3.9	3.9	95
100	4.8	4.8	4.8	6.3	5.8	5.5	3.9	3.9	3.9	3.8	3.8	3.9	6.6	6	5.6	3.9	3.8	3.9	6.4	5.8	5.5	3.8	3.7	3.8	100
105	4.5	4.5	4.5	6	5.6	5.3	3.7	3.7	3.7	3.6	3.7	3.7	6.3	5.8	5.4	3.7	3.7	3.7	6.1	5.6	5.3	3.6	3.5	3.6	105
110	4.2	4.2	4.3	5.7	5.3	5.1	3.4	3.5	3.5	3.4	3.5	3.5	6	5.5	5.3	3.5	3.5	3.5	5.9	5.4	5.1	3.5	3.4	3.4	110
115	4	4	4	5.5	5.1	4.9	3.2	3.3	3.3	3.2	3.3	3.3	5.8	5.3	5.1	3.3	3.3	3.3	5.6	5.2	5	3.3	3.3	3.3	115
120	3.8	3.7	3.8	5.3	4.9	4.7	3.1	3.1	3.2	3.1	3.1	3.2	5.5	5.1	4.9	3.1	3.1	3.2	5.4	5	4.8	3.1	3.1	3.1	120
125	3.5	3.5	3.6	5.1	4.7	4.6	2.9	2.9	3	2.9	2.9	3	5.3	4.9	4.7	3	3	3	5.2	4.8	4.7	3	3	3	125
130	3.3	3.3	3.4	4.8	4.6	4.4	2.7	2.8	2.8	2.7	2.8	2.8	5.1	4.8	4.6	2.8	2.8	2.9	5	4.7	4.5	2.8	2.8	2.9	130
135	3.2	3.2		4.6	4.4	4.3	2.6	2.6	2.7	2.6	2.6	2.7	4.9	4.6	4.4	2.7	2.7	2.7	4.9	4.5	4.4	2.7	2.7	2.7	135
140				4.4	4.2	4.1	2.4	2.5	2.5	2.4	2.5	2.5	4.7	4.4	4.3	2.5	2.5	2.6	4.6	4.4	4.2	2.6	2.6	2.6	140
145				4.3	4.1	4	2.3	2.3	2.4	2.3	2.3	2.4	4.5	4.3	4.2	2.4	2.4	2.5	4.4	4.2	4.1	2.4	2.4	2.5	145
150				4.1	3.9	3.9	2.1	2.2	2.3	2.2	2.2	2.3	4.2	4.1	4	2.3	2.3	2.3	4	4.1	4	2.3	2.3	2.4	150
155				4	3.8	3.8	2	2.1	2.1	2	2.1	2.1	4	4	3.9	2.1	2.2	2.2	3.8	3.9	3.9	2.2	2.2	2.2	155
160				3.8	3.7	3.6	1.9	2	2	1.9	2	2	3.7	3.8	3.8	2	2.1	2.1	3.5	3.7	3.8	2.1	2.1	2.1	160
165				3.7	3.6	3.5	1.8	1.8	1.9	1.8	1.9	1.9	3.4	3.6	3.6	1.9	1.9	2	3.2	3.5	3.6	2	2	2.1	165
170				3.4	3.5	3.4	1.7	1.7	1.8	1.7	1.8	1.8	3.2	3.4	3.5	1.8	1.8	1.9	2.8	3.4	3.4	1.9	1.9	2	170
175				3	3.4	3.4	1.6	1.6	1.7	1.5	1.6	1.7	3	3.1	3.3	1.7	1.7	1.8	2.6	3	3.3	1.8	1.8	1.8	175
180				2.6	3.1	3.3	1.5	1.5	1.5	1.4	1.5	1.6	2.6	3	3.1	1.6	1.6	1.7	2.5	2.6	3	1.6	1.7	1.8	180
185				2.3	2.7	2.8	1.3	1.4	1.4		1.4	1.4	2.3	2.7	2.9	1.5	1.5	1.6	2.3	2.4	2.6	1.5	1.6	1.7	185
190				1.9	2.3	2.4			1.3				2	2.4	2.6	1.4	1.4	1.5	2	2.3	2.4	1.4	1.5	1.6	190
195				1.6	1.9	2							1.8	2	2.2			1.4	1.6	2.1	2.2		1.4	1.5	195
200				1.3	1.6	1.5							1.7	1.8	1.8				1.4	1.8	2			1.3	200
205													1.5	1.7	1.7					1.5	1.6				205
210														1.5	1.5										210

t_197_004_03001_00_000

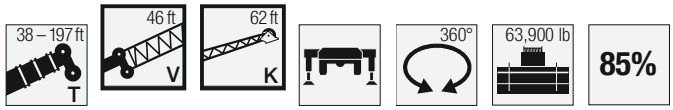
Lifting capacities
Forces de levage



	144 ft + 46 ft			148 ft + 46 ft			154 ft + 46 ft			156 ft + 46 ft			160 ft + 46 ft			166 ft + 46 ft			168 ft + 46 ft			170 ft + 46 ft			
	K 62 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°	
38				7.9																					38
40	4.8			7.9																					40
45	5			7.9			4.5			4.1			6.3			3.2			2.9			2.7			45
50	5			7.8			4.7			4.4			6.4			3.5			3.1			2.9			50
55	4.9			7.7			4.7			4.5			6.4			3.7			3.4			3.1			55
60	4.8			7.5			4.6			4.5			6.4			3.9			3.6			3.3			60
65	4.7	4.4		7.3	6.7		4.5			4.4			6.2	5.7		4			3.8			3.5			65
70	4.6	4.4		7.2	6.7		4.4	4.2		4.3	4.1		6.1	5.7		4	3.8		3.8			3.7			70
75	4.5	4.3		7	6.5		4.3	4.1		4.2	4		6	5.6		3.9	3.7		3.8	3.6		3.7	3.6		75
80	4.4	4.3		6.8	6.3	5.9	4.2	4		4.1	4		5.9	5.6		3.9	3.7		3.7	3.6		3.6	3.5		80
85	4.3	4.2	4.1	6.6	6.1	5.7	4.2	4	3.8	4	3.9		5.8	5.5	5.1	3.8	3.7		3.7	3.6		3.6	3.5		85
90	4.1	4.1	4	6.4	5.9	5.6	4	4	3.8	3.9	3.9	3.8	5.7	5.4	5	3.7	3.6	3.5	3.6	3.6	3.4	3.5	3.5	3.3	90
95	3.9	3.9	3.9	6.2	5.7	5.4	3.9	3.9	3.8	3.8	3.8	3.7	5.6	5.3	5	3.7	3.6	3.4	3.5	3.5	3.4	3.5	3.4	3.3	95
100	3.8	3.7	3.7	6	5.5	5.2	3.8	3.7	3.7	3.7	3.7	3.7	5.5	5.1	4.9	3.6	3.6	3.4	3.5	3.5	3.3	3.4	3.4	3.3	100
105	3.6	3.5	3.6	5.8	5.3	5	3.6	3.5	3.6	3.6	3.5	3.5	5.3	5	4.8	3.5	3.5	3.4	3.4	3.4	3.3	3.4	3.3	3.3	105
110	3.4	3.4	3.4	5.5	5.1	4.9	3.4	3.4	3.4	3.4	3.4	3.4	5.2	4.8	4.6	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	110
115	3.3	3.2	3.3	5.3	5	4.8	3.3	3.2	3.3	3.3	3.2	3.2	5	4.7	4.5	3.2	3.2	3.2	3.2	3.1	3.2	3.1	3.1	3.2	115
120	3.1	3.1	3.1	5.2	4.8	4.6	3.1	3.1	3.1	3.1	3.1	3.1	4.9	4.6	4.4	3.1	3.1	3.1	3	3	3	3	3	3	120
125	2.9	3	3	5	4.7	4.5	3	3	3	3	3	3	4.7	4.4	4.3	3	2.9	3	2.9	2.9	2.9	2.9	2.9	2.9	125
130	2.8	2.8	2.9	4.8	4.5	4.4	2.9	2.9	2.9	2.8	2.8	2.9	4.6	4.3	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	130
135	2.7	2.7	2.7	4.6	4.4	4.2	2.7	2.7	2.7	2.7	2.7	2.7	4.4	4.2	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	135
140	2.5	2.6	2.6	4.3	4.2	4.1	2.6	2.6	2.6	2.6	2.6	2.6	4	4.1	4	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.6	140
145	2.4	2.4	2.5	4.2	4.1	4	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.9	3.9	2.5	2.5	2.5	2.5	2.4	2.5	2.4	2.4	2.5	145
150	2.3	2.3	2.4	3.9	4	3.9	2.4	2.4	2.4	2.3	2.3	2.4	3.5	3.8	3.8	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.3	2.4	150
155	2.2	2.2	2.2	3.4	3.8	3.8	2.3	2.3	2.3	2.2	2.2	2.3	3.2	3.5	3.7	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.2	2.3	155
160	2.1	2.1	2.1	3.2	3.6	3.7	2.1	2.1	2.2	2.1	2.1	2.2	2.9	3.3	3.6	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.2	160
165	2	2	2	3	3.4	3.6	2	2	2.1	2	2	2.1	2.5	3.2	3.3	2.1	2.1	2.1	2	2	2.1	2	2	2.1	165
170	1.8	1.9	1.9	2.7	3	3.4	1.9	2	2	1.9	1.9	2	2.1	2.9	3.2	2	2	2	1.9	2	2	1.9	2	2	170
175	1.7	1.8	1.8	2.4	2.8	3.1	1.8	1.9	1.9	1.8	1.9	1.9	1.9	2.5	3	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.9	1.9	175
180	1.5	1.7	1.7	2	2.6	2.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	2.1	2.7	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	180
185	1.4	1.6	1.6	1.7	2.3	2.6	1.7	1.7	1.7	1.5	1.7	1.7	1.7	1.8	2.3	1.6	1.7	1.8	1.5	1.7	1.7		1.7	1.8	185
190		1.4	1.5	1.6	1.9	2.3	1.6	1.6	1.6	1.3	1.6	1.6		1.7	1.8		1.6	1.7		1.6	1.7		1.6	1.7	190
195			1.4	1.5	1.6	1.9	1.4	1.5	1.6		1.4	1.5		1.5	1.6		1.5	1.6		1.4	1.6		1.4	1.6	195
200					1.5	1.5		1.4	1.5			1.4			1.5			1.5			1.5			1.5	200
205					1.4	1.5			1.4																205
210						1.3																			210

t_197_004_03001_00_000

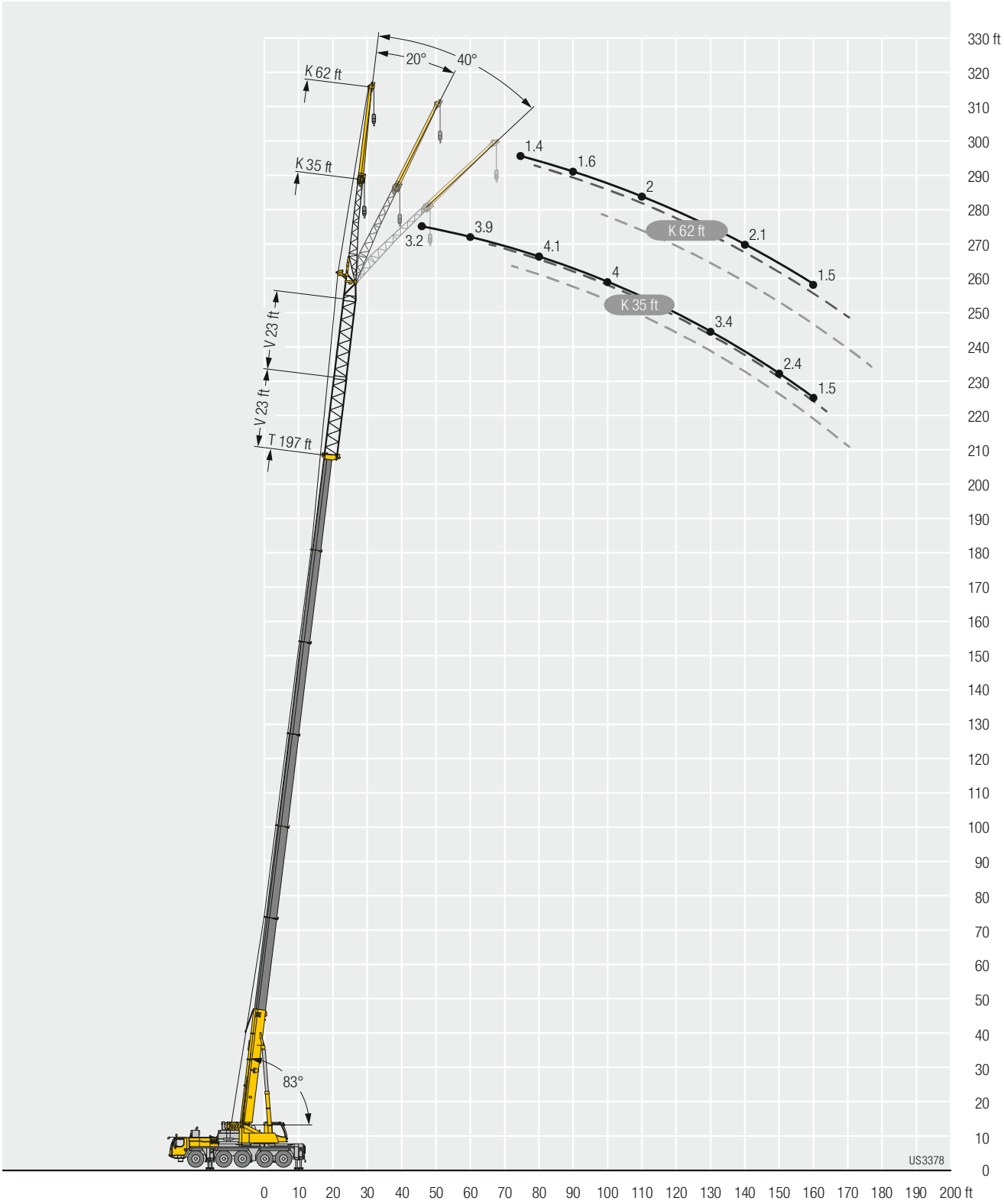
Lifting capacities
Forces de levage



	172 ft + 46 ft			178 ft + 46 ft			182 ft + 46 ft			184 ft + 46 ft			186 ft + 46 ft			191 ft + 46 ft			195 ft + 46 ft			197 ft + 46 ft			
	K 62 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°	
45	4.2			2.3																					45
50	4.5			2.4			2			2.3			2.1			1.6									50
55	4.6			2.5			2.1			2.4			2.2			1.7									55
60	4.7			2.7			2.2			2.6			2.3			1.7			1.4						60
65	4.7			2.9			2.3			2.7			2.5			1.8			1.4						65
70	4.7	4.5		3.1			2.5			2.9			2.6			1.9			1.5						70
75	4.7	4.5		3.2	3.4		2.6	3.1		3.1	3.5		2.8	3.3		2	2.5		1.5	1.9		1.4	1.7		75
80	4.7	4.4		3.3	3.3		2.8	3.1		3.2	3.4		2.9	3.3		2.1	2.7		1.6	2		1.4	1.7		80
85	4.6	4.4		3.4	3.3		2.9	3.2		3.3	3.4		3.1	3.3		2.2	2.8		1.7	2.2		1.5	1.9		85
90	4.5	4.4	4.1	3.4	3.3		3.1	3.1		3.3	3.4		3.1	3.3		2.4	2.9		1.8	2.3		1.6	2.1		90
95	4.4	4.3	4.1	3.3	3.3	3.1	3.1	3.1	3	3.4	3.4	3.2	3.2	3.3	3.2	2.5	2.9	2.8	1.9	2.5		1.7	2.2		95
100	4.4	4.3	4.1	3.3	3.3	3.1	3.1	3.1	3	3.4	3.3	3.2	3.2	3.2	3.2	2.6	2.9	2.8	2	2.6	2.6	1.8	2.4	2.6	100
105	4.3	4.3	4.1	3.2	3.2	3.1	3.1	3.1	3	3.3	3.3	3.2	3.2	3.2	3.2	2.7	2.9	2.8	2.2	2.7	2.6	1.9	2.5	2.5	105
110	4.2	4.3	4.1	3.1	3.2	3.1	3	3	3	3.3	3.2	3.2	3.1	3.2	3.1	2.7	2.9	2.8	2.3	2.7	2.6	2	2.6	2.5	110
115	4.1	4.2	4.1	3	3.1	3.1	3	3	3	3.2	3.1	3.1	3.1	3.1	3.1	2.8	2.9	2.8	2.4	2.7	2.6	2.1	2.6	2.5	115
120	4.1	4.1	4	2.9	3	3	2.9	3	3	3.1	3	3.1	3	3	3	2.7	2.8	2.8	2.4	2.6	2.6	2.2	2.6	2.5	120
125	4	4.1	4	2.9	2.9	2.9	2.8	2.8	2.9	3	2.9	3	2.9	2.9	2.9	2.6	2.8	2.8	2.4	2.6	2.6	2.2	2.5	2.5	125
130	3.9	4	3.9	2.8	2.8	2.8	2.7	2.7	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.6	2.7	2.7	2.3	2.6	2.6	2.2	2.5	2.5	130
135	3.8	3.8	3.8	2.7	2.7	2.7	2.6	2.6	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.5	2.6	2.6	2.3	2.5	2.5	2.2	2.5	2.5	135
140	3.7	3.7	3.7	2.6	2.6	2.6	2.5	2.5	2.6	2.7	2.6	2.6	2.6	2.6	2.6	2.4	2.5	2.5	2.2	2.5	2.5	2.1	2.4	2.5	140
145	3.4	3.6	3.6	2.5	2.5	2.5	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.2	2.4	2.4	2.1	2.3	2.4	145
150	2.9	3.5	3.5	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.5	2.3	2.3	2.4	2.2	2.3	2.3	2.1	2.3	2.3	150
155	2.5	3.3	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.2	2.3	2.4	2.1	2.3	2.3	2.1	2.2	2.3	2	2.2	2.2	155
160	2.3	3	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2	2.2	2.3	1.8	2.2	2.3	1.9	2.2	2.2	1.7	2.1	2.2	1.5	2.1	2.2	160
165	2.2	2.6	3.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6	2.1	2.2	1.3	2.1	2.2	1.4	2.1	2.1		2	2.1		2	2.1	165
170	2	2.2	2.8	1.9	2	2	1.7	2	2		2	2.1		1.9	2.1		1.9	2		1.9	2		1.7	2	170
175	1.7	2	2.4	1.6	1.9	2	1.4	1.9	1.9		1.7	2		1.6	2		1.7	1.9		1.4	1.9			1.9	175
180		1.9	2		1.8	1.9		1.8	1.9			1.9			1.8			1.8			1.8			1.6	180
185		1.7	1.8		1.7	1.8		1.4	1.8			1.5			1.4			1.5							185
190		1.3	1.7			1.7			1.6																190
195			1.5			1.4																			195

t_197_004_03001_00_000

Lifting heights
Hauteurs de levage



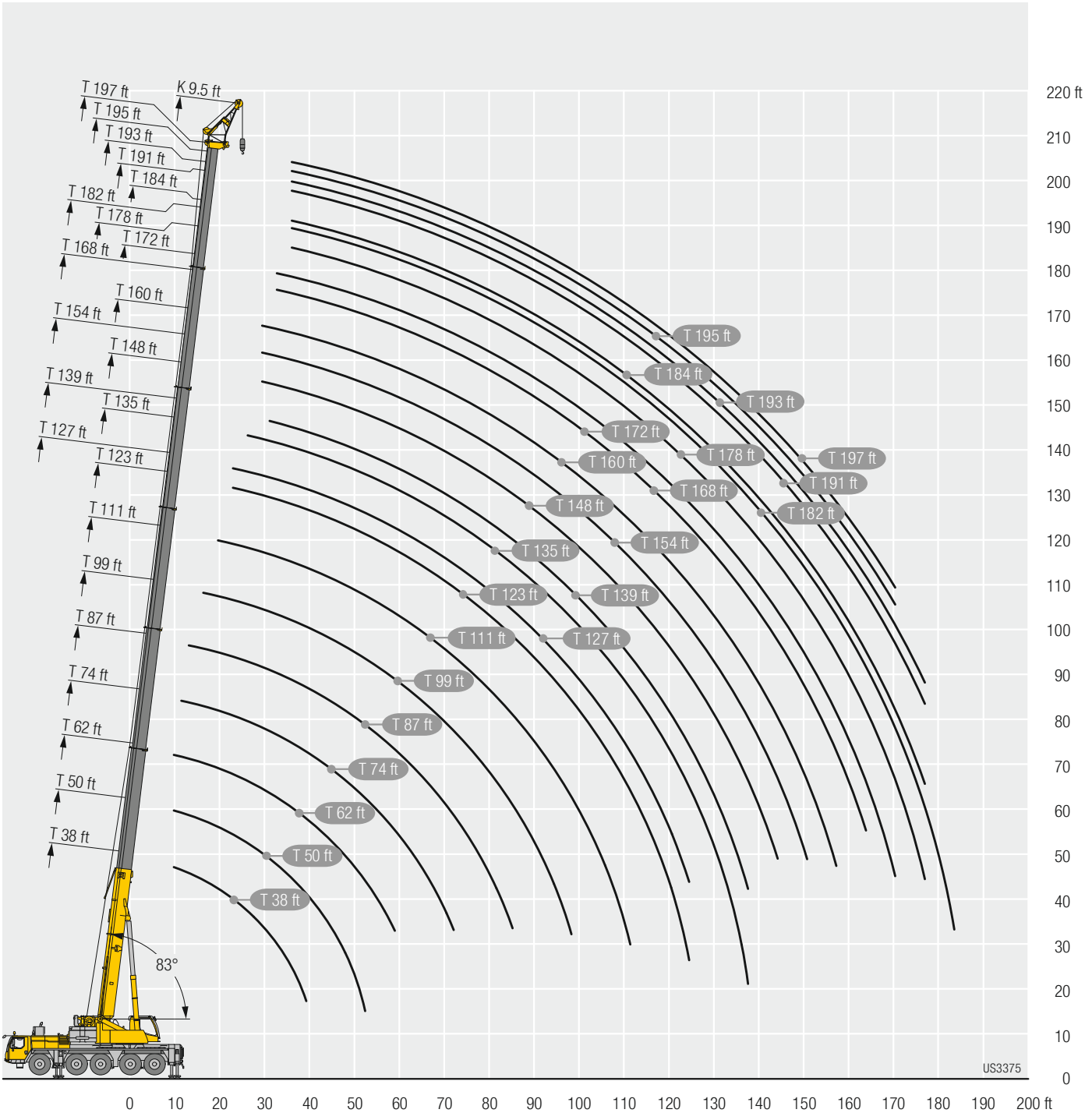
Lifting capacities
Forces de levage



	38	50	62	74	87	99	111	123	127	135	139	148	154	160	168	172	178	182	184	191	193	195	197	
	ft																							
	K 9.5 ft																							
10	64.1	64.1	64.1																					10
11	64.1	64.1	64.1	64.1																				11
12	64.1	64.1	64.1	64.1																				12
13	64.1	64.1	64.1	64.1																				13
14	64.1	64.1	64.1	64.1	64.1																			14
15	64.1	64.1	64.1	64.1	64.1																			15
16	64.1	64.1	64.1	64.1	64.1	64.1																		16
17	64.1	64.1	64.1	64.1	64.1	64.1																		17
18	64.1	64.1	64.1	64.1	64.1	64.1																		18
19	64.1	64.1	64.1	64.1	64.1	64.1	64.1																	19
20	64.1	64.1	64.1	64.1	64.1	64.1	64.1																	20
22	64.1	64.1	64.1	64.1	64.1	64.1	64.1	58.6																22
24	64.1	64.1	64.1	64.1	64.1	64.1	64.1	57.4	44.7	34.9														24
26	64.1	64.1	64.1	64.1	64.1	64.1	64.1	56.1	43.5	42.7	40.1													26
28	64.1	64.1	64.1	64.1	64.1	64.1	64.1	54.8	42.3	41.8	39.3	37.1												28
30	64.1	64.1	64.1	64.1	64.1	64.1	63.9	53.4	41.2	40.9	38.5	36.6	33.9	30.2										30
32	64.1	64.1	64.1	64.1	64.1	64.1	62.4	51.9	40.1	40	37.8	36.1	33.7	30	21.3	24.4								32
34	64.1	64.1	64.1	64.1	64.1	64.1	60.8	50.5	39.1	39.1	37	35.6	33.4	29.8	21.1	24.2	19.9							34
36	62.8	63.6	63.6	63.1	62.3	61.7	59.2	48.9	38.1	38.1	36.2	35	33	29.6	20.9	24	19.7	18.6	19.8	17.6	16.9	14.9	14.4	36
38	58.6	59.5	60	59.8	59.3	57.8	56.9	47.4	37.1	37.1	35.5	34.4	32.5	29.2	20.6	23.8	19.5	18.5	19.7	17.5	16.8	14.8	14.4	38
40	54.6	55.6	56.1	56	55.5	55.7	53.5	45.9	36.2	36.2	34.7	33.8	32	28.9	20.2	23.6	19.3	18.3	19.5	17.4	16.7	14.7	14.4	40
45		47	47.6	48	48.4	47.8	46.2	42.4	34.2	34	32.8	32.1	30.2	27.8	19.3	22.9	18.6	17.8	19.1	17.1	16.5	14.5	14.2	45
50		40.3	40.9	41.9	41.7	41.1	40.1	38.1	32.4	32.2	30.7	30.2	28.2	26.6	18.4	22.1	18	17.3	18.6	16.6	16.2	14.3	14	50
55			36.3	36.6	36.3	35.7	34.8	34.1	30.6	30.5	28.9	28.3	26.3	25.4	17.4	21.2	17.2	16.6	18	16.1	15.7	14.1	13.8	55
60			32	32.2	31.9	31.3	30.5	30	28.8	28.8	27.2	26.5	24.6	24	16.4	20.2	16.5	15.9	17.2	15.6	15.3	13.7	13.5	60
65			28.1	28.5	28.3	27.7	26.8	26.8	26.6	26.2	25.2	24.7	23	22.6	15.5	19.2	15.7	15.2	16.5	15	14.7	13.3	13.1	65
70				25.4	25.2	24.6	24.2	24.1	23.6	23.1	22.6	22.4	21.4	21.2	14.7	18.3	15	14.4	15.8	14.5	14.1	12.9	12.7	70
75				22.8	22.5	21.9	22.4	21.3	20.8	20.9	19.9	20.4	19.5	19.6	13.8	17.5	14.3	13.8	15.1	13.9	13.5	12.4	12.3	75
80					20.2	20.3	20	18.9	18.4	19	17.5	18.4	17.2	17.6	13	16.7	13.7	13.1	14.4	13.3	12.9	11.9	11.8	80
85					18.3	18.7	17.9	17.7	16.4	17	15.5	16.4	15.2	16.1	12.2	15.6	13	12.4	13.7	12.8	12.3	11.5	11.2	85
90						16.9	16.1	16.1	14.6	15.2	13.7	15.2	13.4	14.7	11.6	13.8	12.4	11.7	13	12.2	11.8	11	10.7	90
95						15.4	14.5	14.5	13	13.8	12.1	13.8	11.9	13.2	11	12.4	11.7	11.2	12.2	11.7	11.2	10.5	10.2	95
100						14	13.1	13.1	11.6	12.9	10.7	12.5	10.6	11.7	10.5	11.7	11.2	10.6	10.9	11	10.6	10.1	9.7	100
105							11.9	11.9	10.3	11.9	9.6	11.2	10.1	10.9	10	10.5	10.5	10.2	9.8	9.8	9.8	9.7	9.3	105
110							11.6	10.7	9.8	11	9	10.1	9.6	10	9.5	9.5	9.5	9.4	8.8	8.9	8.9	9	8.7	110
115								10.1	9.4	10	8.6	9.5	9.2	9.2	9.1	8.7	8.7	8.6	8	8.1	8.1	8.2	8.1	115
120								9.7	9.1	9.2	8.2	8.9	8.8	8.4	8.4	7.9	8	7.9	7.3	7.4	7.3	7.4	7.3	120
125								9.1	8.9	8.5	7.9	8.3	8.3	7.7	7.8	7.3	7.3	7.2	6.6	6.7	6.7	6.7	6.6	125
130									6.6	7.9	7.5	7.7	7.7	7.1	7.1	6.6	6.7	6.6	6	6.1	6.1	6.1	6	130
135										7.4	7.3	7.1	7.1	6.5	6.6	6.1	6.1	6	5.4	5.5	5.5	5.6	5.5	135
140											7	6.6	6.6	6	6	5.6	5.6	5.5	4.9	5	5	5	4.9	140
145												6.1	6.1	5.5	5.6	5.1	5.1	5	4.4	4.5	4.5	4.6	4.5	145
150												5.7	5.7	5.1	5.1	4.6	4.7	4.6	4	4.1	4	4.1	4	150
155													5.4	4.7	4.7	4.2	4.3	4.2	3.6	3.6	3.6	3.7	3.6	155
160														4.3	4.3	3.8	3.9	3.8	3.1	3.3	3.2	3.3	3.2	160
165															4	3.4	3.5	3.4	2.7	2.8	2.8	2.9	2.8	165
170															3.6	3	3.1	3	2.3	2.4	2.4	2.5	2.3	170
175																	2.7	2.6	1.9	2	2	1.6		175
180																	2.4	2.3	1.5					180

t_197_006_12001_00_000

Lifting heights
Hauteurs de levage



Equipment
Equipement

Crane carrier

Frame	Liebherr designed and manufactured, box-type, torsion resistant design of hightensile fine grained structural steel.
Outriggers	4-point supporting system, hydraulically telescopable into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display.
Engine	6-cylinder Diesel, make Liebherr, watercooled, output 400 kW (544 h.p.), max. torque 1856 lb-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96. Fuel reservoir: 148 gallons.
Transmission	Automated 12-speed manual gearbox including intarder. Distributor gear, two-stage, with locking differential.
Axles	Low maintenance carrier axles, all 5 axles steered. Axle 2, 4 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 4 with longitudinal differential lock.
Cardan shaft	All cardan shafts with 70° diagonal toothing and maintenance free.
Suspension	All axles are mounted on hydropneumatic suspension – "Niveaumatik suspension" and are lockable hydraulically.
Tyres	10 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. Parking brake: Spring brake actuator, acting on the wheels of the 2nd to 5th axle. Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. 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 180 Ah each.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane drive	Mechanical drive of the crane hydraulic from the chassis. Variable axial piston pumps with servo control and power regulation.
Control	Electric "Load Sensing" control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type).
Hoist gear	Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	1 differential ram with pilot-controlled brake valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. Slewing gear invertible from released to locked as 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 6 telescopic sections. All telescopic sections hydraulically extendable independent of one another. Rapid-cycle telescoping system TELEMATIK. Boom length: 38 ft – 197 ft.
Counterweight	29,500 lb
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 180 Ah each.

Additional equipment

K	Assembly jib 9.5 ft
K	Double swing-away jib 35 ft – 62 ft Adjustment 0°, 20°, 40°
NZK	Hydraulically adjustable swing-away jib 35 ft – 62 ft Hydraulically adjustment 0° – 40°
V	Telescopic boom extension 2 x 23 ft
2nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Additional counterweight	34,400 lb for a total counterweight of 63,900 lb.
Tyres	10 tyres, size and 525/80 R 25 (20.5 R 25).
Drive 10 x 8	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
Equipement

Châssis porteur

Cadre	Fabrication Liebherr, construction en caisson indéformable, en acier à haute résistance à grains fins.
Calage	Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Utilisation avec commande à distance, mise à niveau automatique du calage, inclinomètre électronique.
Moteur	Moteur diesel, 6 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 400 kW (544 ch), couple max. 1856 lb-ft. Emissions des gaz d'échappement conformes au directive (EU) 2016/1628, EPA/CARB ou ECE-R.96. Capacité du réservoir à carburant: 148 gallons.
Boîte de vitesse	Boîte de vitesses 12 rapports automatisée incl. ralentisseur. Mécanisme de distribution deux étages avec blocage du différentiel de distribution.
Essieux	Essieux nécessitant peu d'entretien, les 5 essieux sont directeurs. Les essieux 2, 4 et 5 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal et l'essieu 4 avec différentiel longitudinal.
Arbres articulés	Tous les flasques de croisillons avec denture en croix 70° et sans entretien.
Suspension	Suspension hydropneumatique «Niveaumatik» – sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.
Pneumatiques	10 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: ressort accumulé agissant sur les roues des essieux 2 à 5. Freins continus: frein moteur par clapet sur échappement avec système de ralentissement Liebherr ZBS. Ralentisseur monté sur boîte de vitesse.
Cabine	Spacieuse cabine, traitement anticorrosion, équipement «grand confort», suspension par silentblocs, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts, 2 batteries de 180 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	Entrainement mécanique de l'hydraulique de la grue par le châssis de la grue. Pompes réglables à pistons axiaux avec servocommande et réglage de puissance.
Commande	Direction électrique «Load Sensing», 4 mouvements de travail dirigeable simultanément, deux leviers de commande à 4 positions et à autocentrage.
Mécanisme de levage	Moteur à cylindrée constante et à pistons axiaux. Treuil de marque Liebherr équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.
Mécanisme de relevage	1 vérin différentiel avec clapet de frein commandé.
Dispositif de rotation	Moteur à cylindrée constante à pistons axiaux, 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	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 télescopables indépendamment les uns des autres. Système de télescopage séquentiel rapide, TELEMATIK. Longueur de flèche: 38 ft – 197 ft.
Contrepoids	29,500 lb
Installation électrique	Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts, 2 batteries de 180 Ah chacune.

Equipement supplémentaire

K	Flechette de montage 9.5 ft
K	Double fléchette pliante 35 ft – 62 ft Positionnement à 0°, 20°, 40°
NZK	Fléchette pliante à positionnement hydraulique 35 ft – 62 ft Positionnement hydraulique à 0° – 40°
V	Rallonge flèche télescopique 2 x 23 ft
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	34,400 lb pour un contrepoids total de 63,900 lb.
Pneumatiques	10 pneus. Taille: 525/80 R 25 (20.5 R 25).
Entraînement 10 x 8	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

	Max. capacity Capacité max.
	Max. hoist height Hauteur de levage max.
	Max. radius Portée max.
	Tyres Pneumatiques
	Hookblock / Capacity Moufle à crochet / Capacité de charge
	No. of sheaves Poulies
	No. of lines Brins
	Weight Poids
	Crane carrier Châssis porteur
	Driving speed Vitesse de translation
	Gradability Aptitude à gravir les pentes
	Transmission Boîte de vitesse
	Gear Vitesse
	Driving speed – Onroad gear Vitesse de translation – Vitesse de route
	Driving speed – Crawl speed Vitesse de translation – Marche lente
	Crane superstructure Partie tournante de la grue
	infinitely variable en continu

	Rope diameter Diamètre
	Rope length Longueur du câble
	Max. single line pull Effort au brin maxi.
	Hoist gear Treuil de levage
	Slewing speeds Vitesses d'orientation
	Boom length Longueur de la flèche
	Boom position Position de la flèche
	Counterweight Contrepoids
	Page Page
	Outriggers Calage
	Slewing gear / Working area Mécanisme d'orientation / Plage de travail
	Standard Norme
	Radius Portée
	Telescopic boom Flèche télescopique
	Mechanical/hydraulic swing away jib Fléchette pliante mécanique/hydraulique
	Telescopic boom extension Rallonge flèche télescopique
	Assembly jib Flechette de montage

Remarks

1. The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 m^2 per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4. Lifting capacities are given in kip.
5. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6. Working radii are measured from the slewing centre.
7. The stated lengths of the telescopic boom are maximum values and may deviate slightly.
8. The lifting capacities given for the telescopic boom apply if the folding jib is removed.
9. Subject to modification of lifting capacities.
10. Lifting capacities above 153,200 lb / 181,200 lb only with additional pulley block/ special equipment.
11. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.

Remarques

1. La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 m^2 par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4. Les forces de levage sont données en kip.
5. Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
6. Les portées sont calculées à partir de l'axe de rotation.
7. Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.
8. Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
9. Charges données sous réserve de modification.
10. Forces de levage plus de 153,200 lb / 181,200 lb seulement avec moufle additionnel/équipement supplémentaire.
11. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.

Proposition 65



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

Subject to modification / Sous réserve de modifications

Liebherr-Werk Ehingen GmbH
Postfach 1361, 89582 Ehingen, Germany
☎ +49 73 91 5 02-0, Fax +49 73 91 5 02-33 99
www.liebherr.com, E-mail: info.lwe@liebherr.com
www.facebook.com/LiebherrConstruction

Printed in Germany (2) 793-02-2021

GUAY