The optimum of the telescopic crawler crane class

LTR 1220

Telescopic crawler crane
Grue télescopique sur chenilles

LIEBHERR

Mobile and crawler cranes

GUAY



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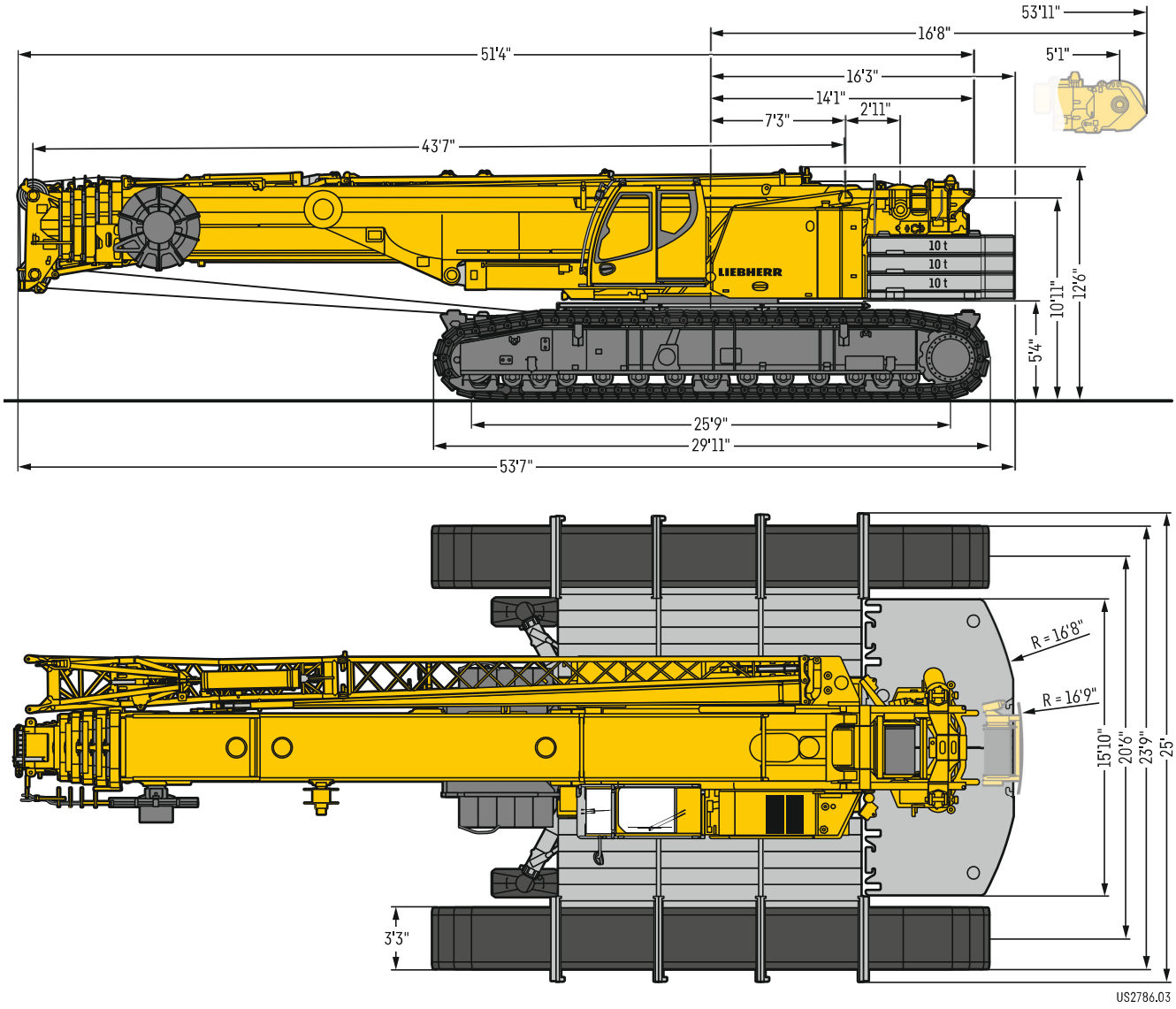
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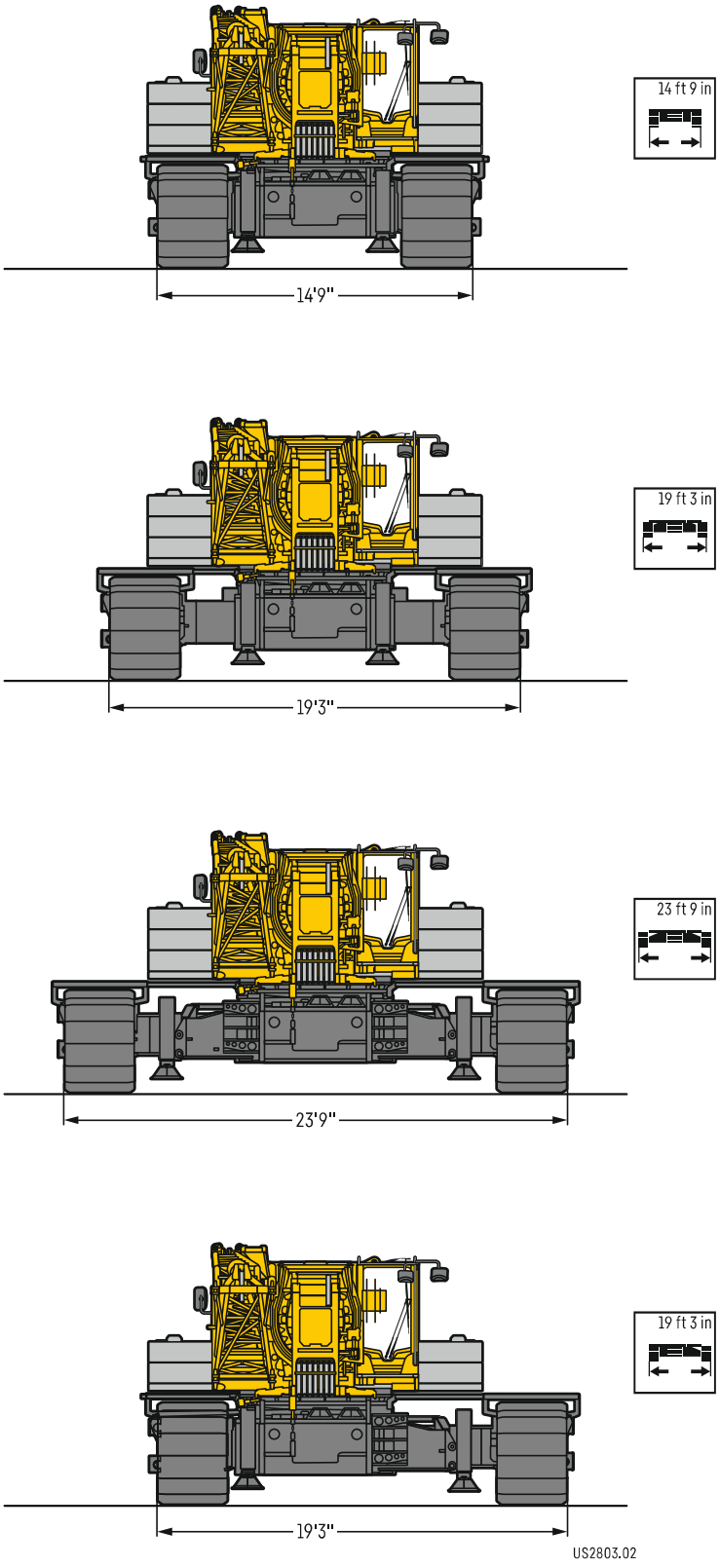
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Dimensions
Encombrement

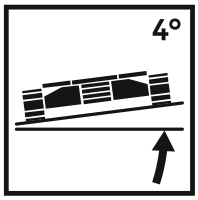


Dimensions
Encombrement



LTR 1220





Tables for terrain inclines up to maximum 4°
Tableaux pour les inclinaisons du terrain jusqu'à 4° max.





197 ft



40 ft – 118 ft



1 x 23 ft



11 ft



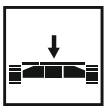
max. 4°



230 kW
(312 h.p.)



154,350 lb



44,100 lb

HVO ready

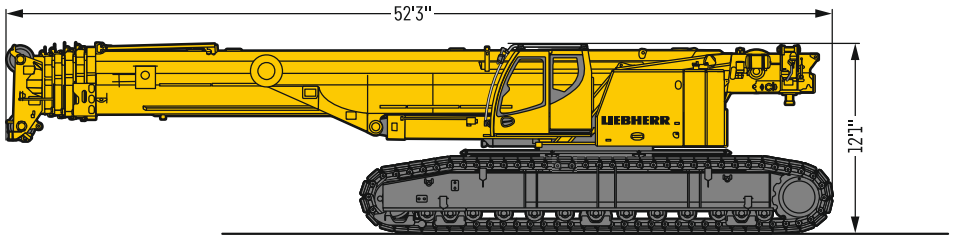
GUAY

Transportation plan
Plan de transport

Without slewing platform counterweight and without center counterweight
Sans contrepoids de la partie tournante et sans contrepoids central

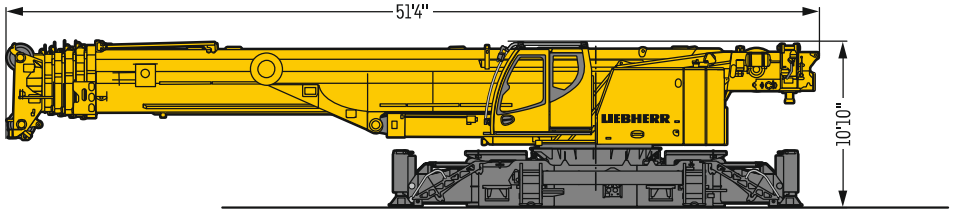
Basic machine, width 16 ft 5 in Flat crawler pads 3 ft 3 in
Machine de base, largeur 16 ft 5 in, Tuiles plates 3 ft 3 in

201,300 lb



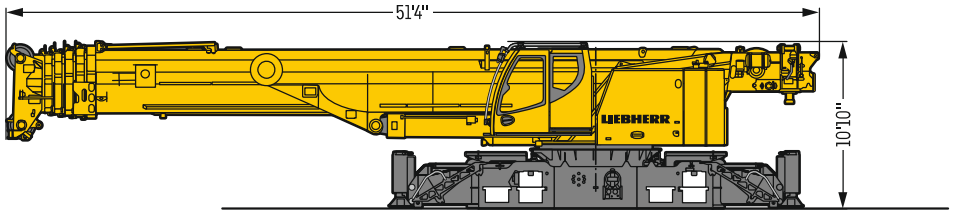
Basic machine, width 9 ft 10 in, with jack-Up cylinder and traverse beam
Machine de base, largeur 9 ft 10 in, avec verin Jack-Up, avec traverse

122,350 lb



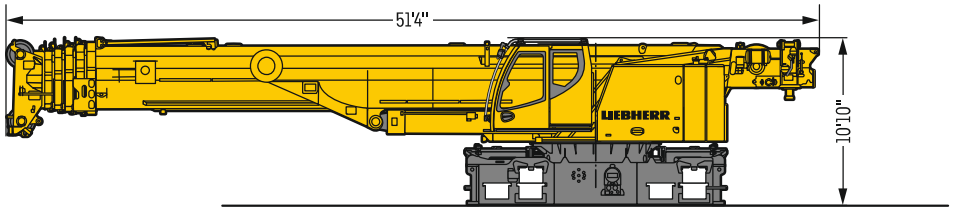
Basic machine, width 9 ft 10 in with jack-Up cylinder, without traverse beam
Machine de base, largeur 9 ft 10 in avec verin Jack-Up, sans traverse

106,260 lb



Basic machine, width 9 ft 10 in, without jack-Up cylinder, without traverse beam
Machine de base, largeur 9 ft 10 in sans verin Jack-Up, sans traverse

99,650 lb



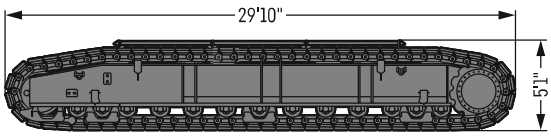
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GUAY

Transportation plan
Plan de transport

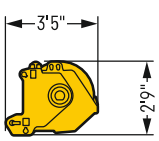
Crawler carrier, Flat crawler pads, width 3 ft 3 in
Longerons, Tuiles plates, largeur 3 ft 3 in

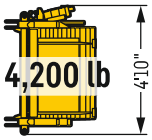
39,500 lb (2x)



Winch 2 incl. rope and self mounting device
Treuil 2 avec cable et dispositif de montage autonome

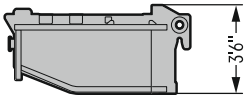
(1x)

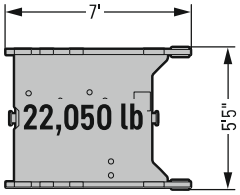




Center counterweight
Contrepoids de base

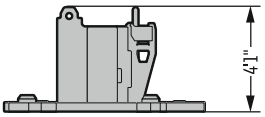
(2x)

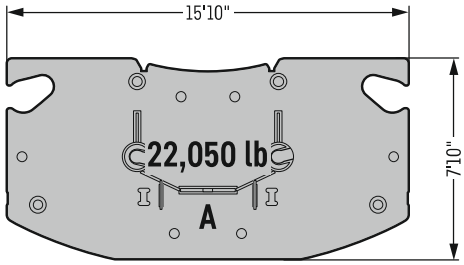




Part A / Partie A
Superstructure ballast
Contrepoids de la partie tournante

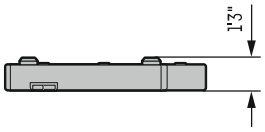
(1x)

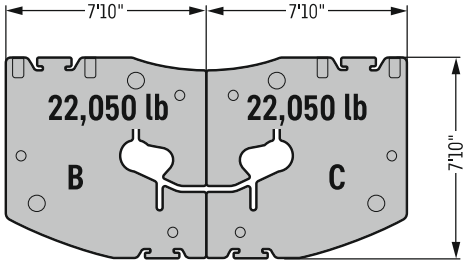




Part B, C / Partie B, C
Superstructure ballast
Contrepoids de la partie tournante

(3x + 3x)





US2627.02

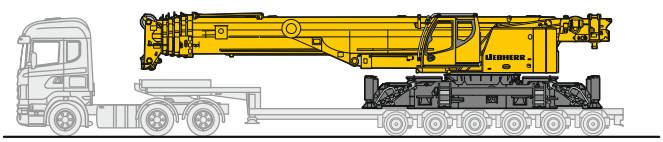
	Part A · Partie A à 22,050 lb	**Part B** · Partie B à 22,050 lb	**Part C** · Partie C à 22,050 lb
110,250 lb	1 x	2 x	2 x
154,350 lb	1 x	3 x	3 x

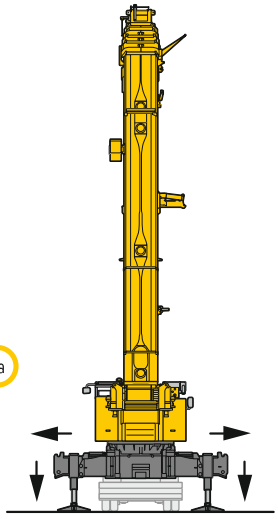
* **optional** · en option

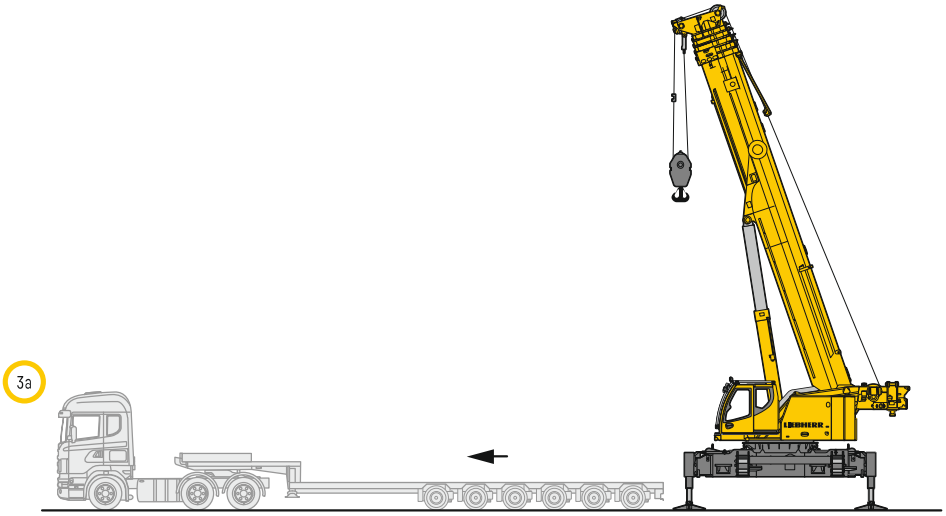
Transportation plan A
Plan de transport A

~ 122,350 lb

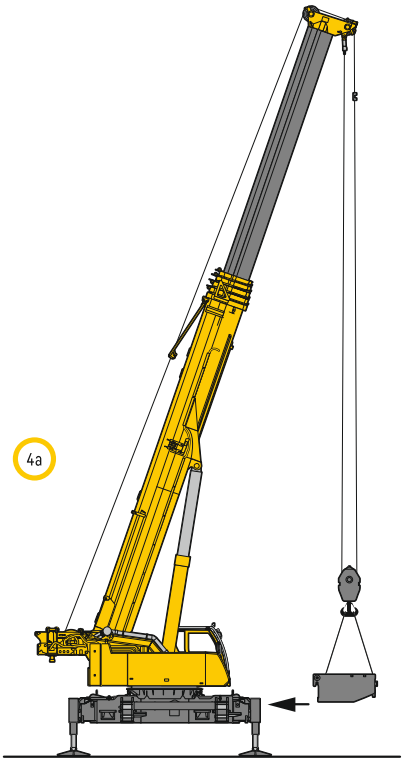
1a

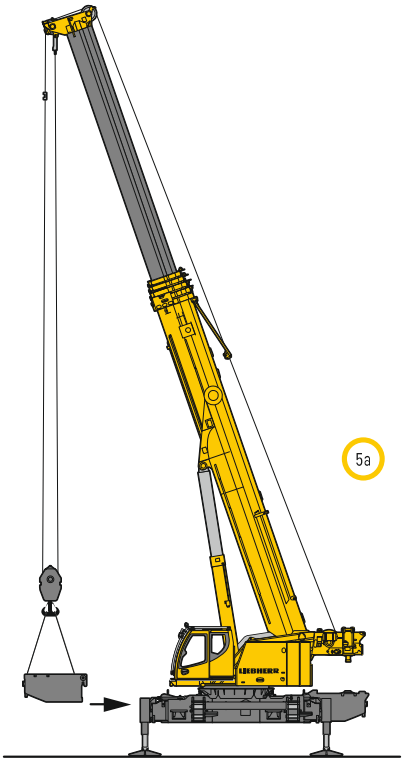


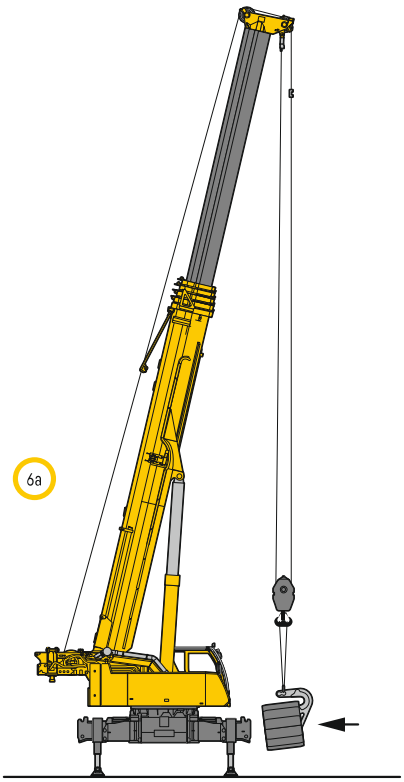


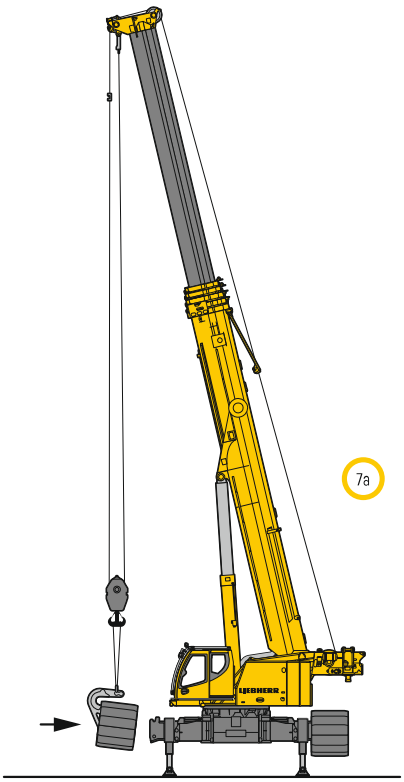


Transportation plan A
Plan de transport A



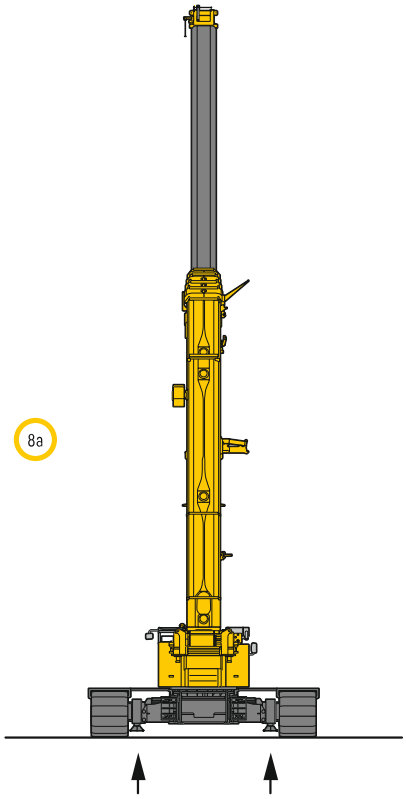




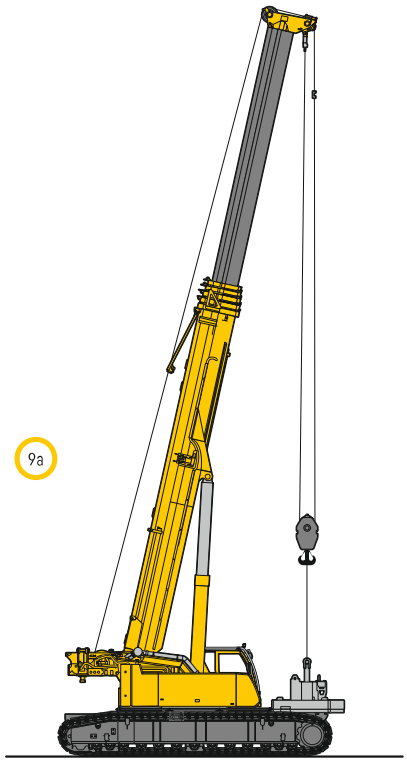


Transportation plan A
Plan de transport A

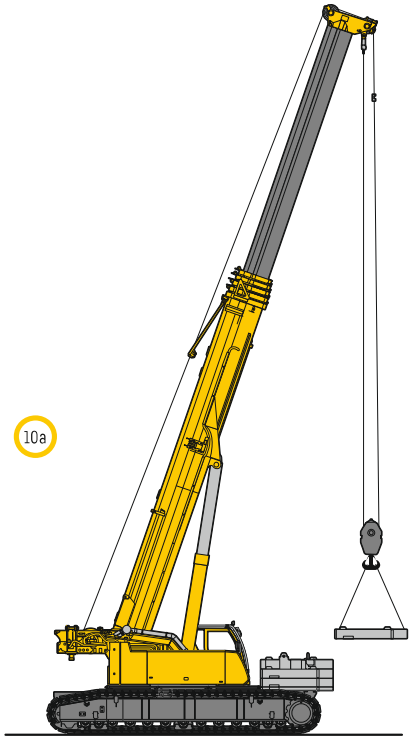
8a



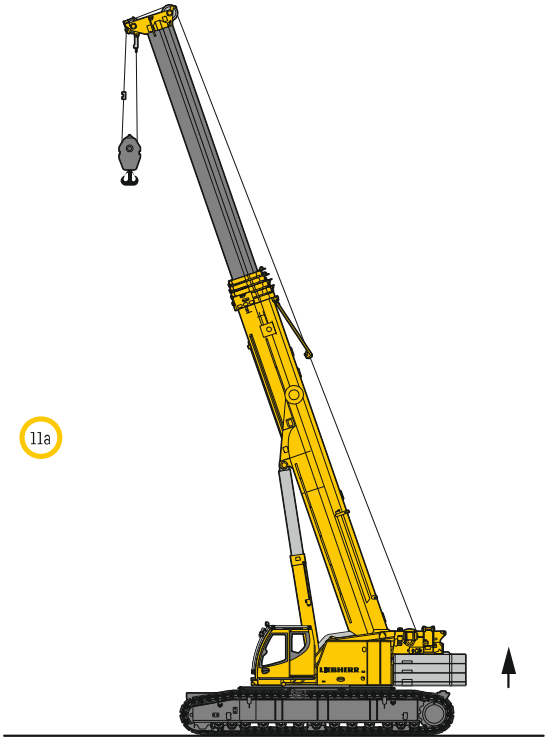
9a



10a



11a

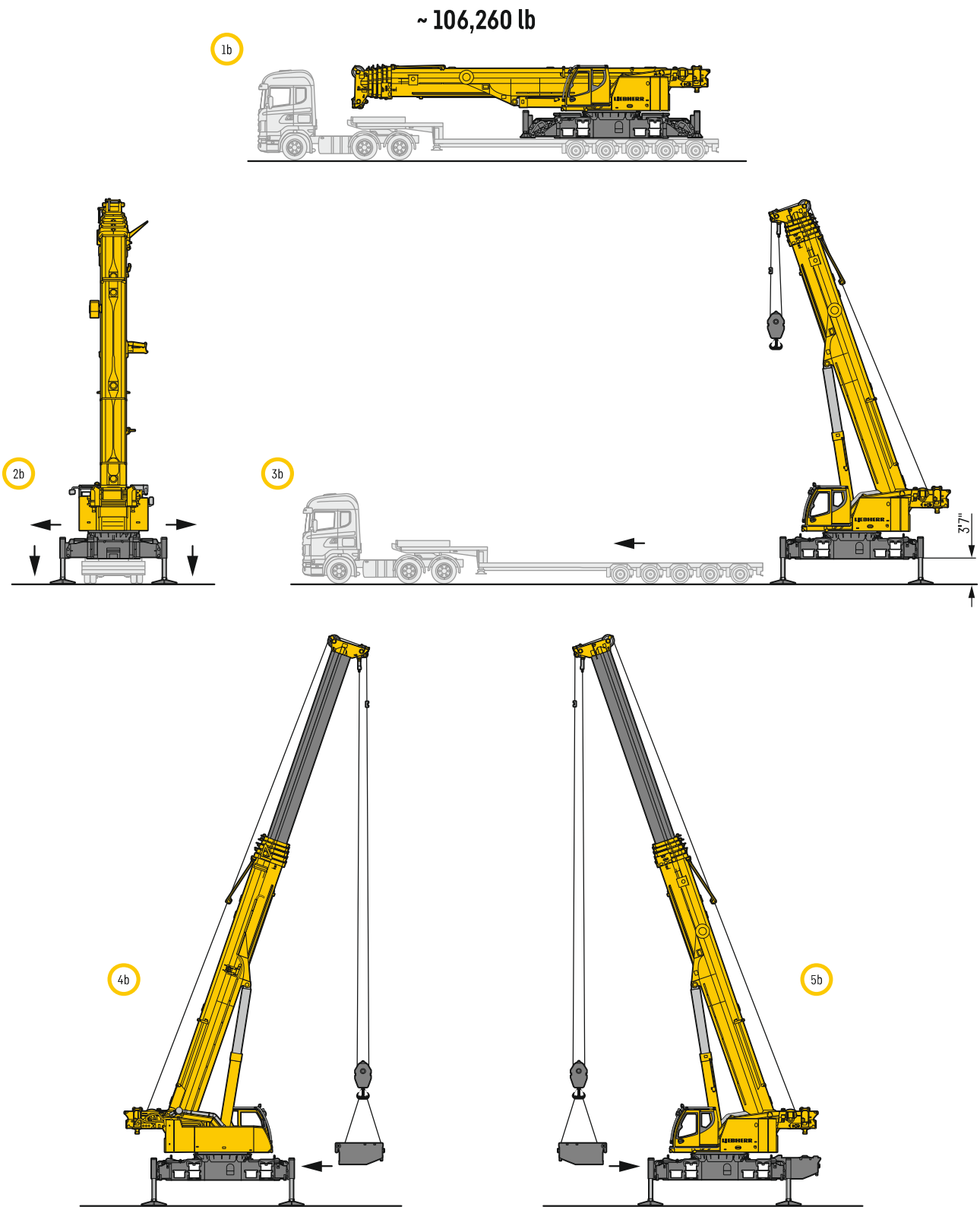


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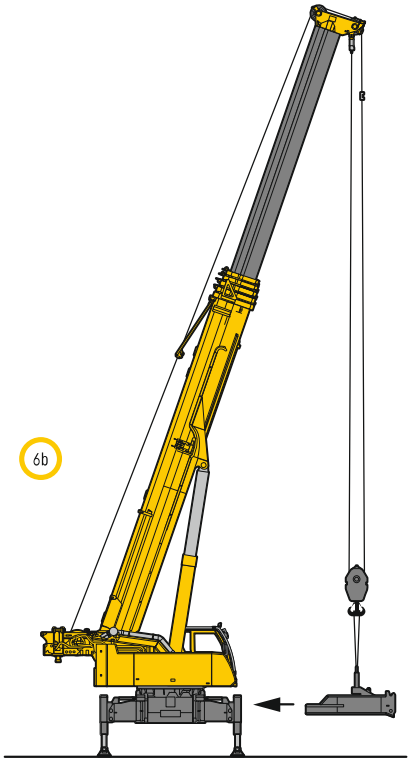
GUAY

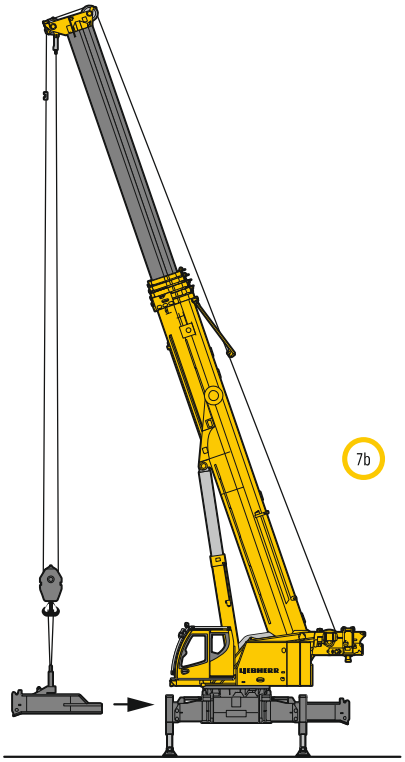
Transportation plan B
Plan de transport B

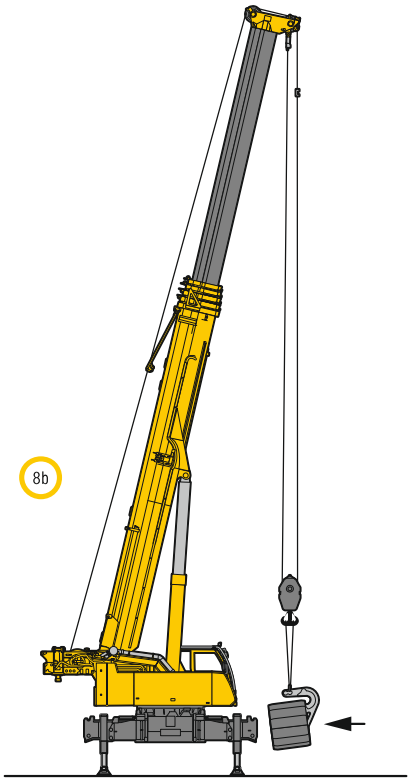
~ 106,260 lb

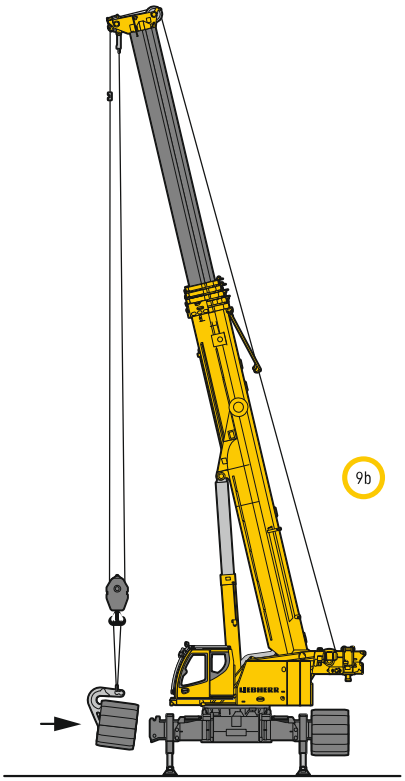


Transportation plan B
Plan de transport B

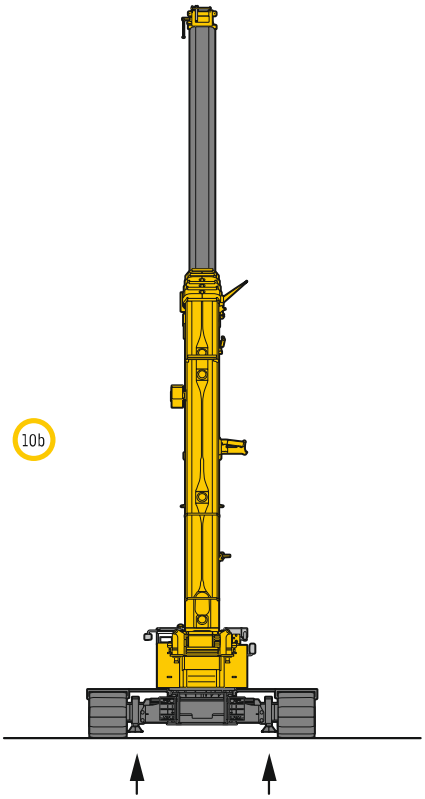


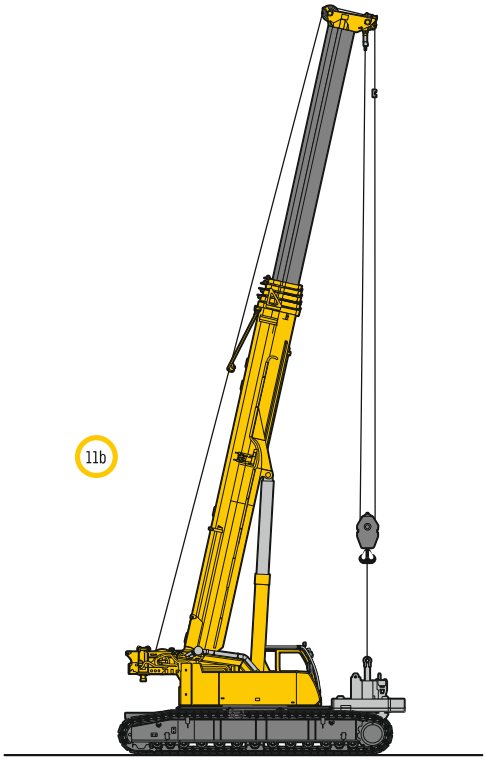


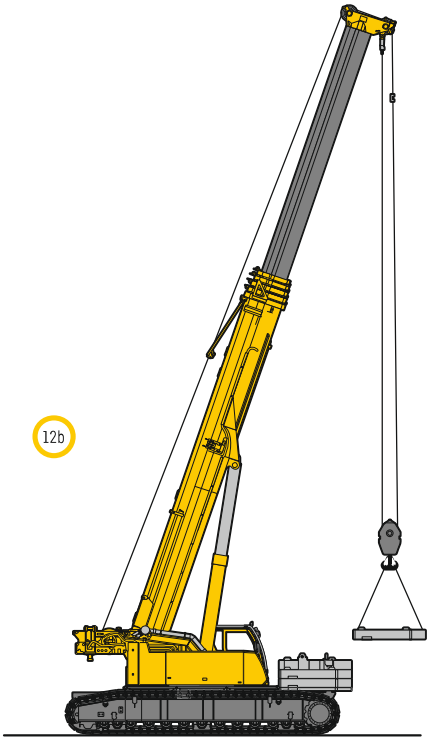


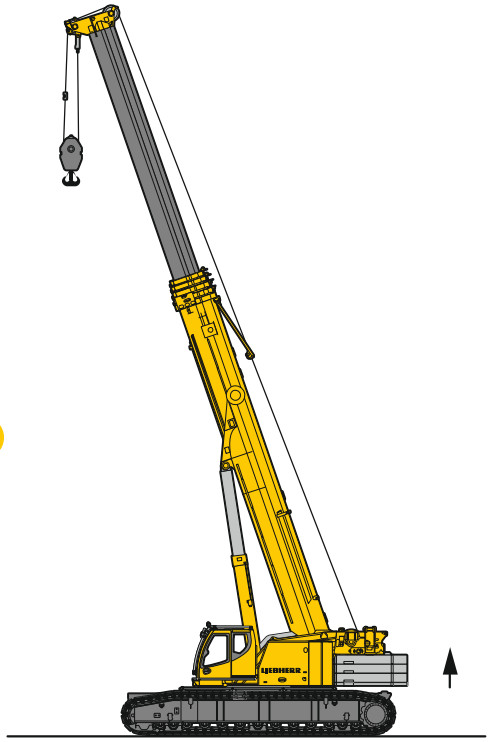


Transportation plan B
Plan de transport B









US2762.02

Comfort and functionality
Confort et fonctionnalite

Self-mounting of ballast and optional hoist gear 2

Montage autonome du contrepoids et mécanisme de levage 2 en option





Crawler tracks
Chenilles

The 3 ft 3 inch wide crawler tracks are as standard equipped with flat crawler pads. Optionally available are double grouser crawler pads with easily attachable and detachable polyamide plates. These offer advantages at sensible surfaces like e. g. industrial floors. Furthermore the polyamide plates are fully suitable for rough terrains.

Les chenilles de 3 ft 3 inch de large sont pourvues en série de tuiles plates. Des tuiles double nervure sont disponibles en option, avec éléments facilement amovibles en polyamide. Ces tuiles sont particulièrement idéales sur sols difficiles, tels que les terrains industriels. En outre, les tuiles polyamide sont adaptées à tous les terrains.



Flat crawler pads
Tuiles plates



Crawler tracks with polyamide plates
Chenilles avec tuiles polyamides

High safety
Haute sécurité

Functional walking surfaces and steps
Passerelles et marchepieds fonctionnels







Large grating areas facilitate safe movement on the crane. During the design of the walking areas, special attention was paid to easy and fast transportation and assembly possibilities.

Spacieuses surfaces en caillebotis permettant un déplacement en toute sécurité sur la grue. Lors de la conception des passerelles, l'accent a également été mis sur un transport et un montage simplifiés et rapides.

Equipped for safety
Équipé en toute sécurité

The ballast monitoring system compares the fitted ballast to the LICCON set-up state and a warning is output in the event of a discrepancy.

Grâce à la surveillance de lest, le lest monté est comparé avec l'état d'équipement de la LICCON et un avertissement est émis en cas de non conformité.

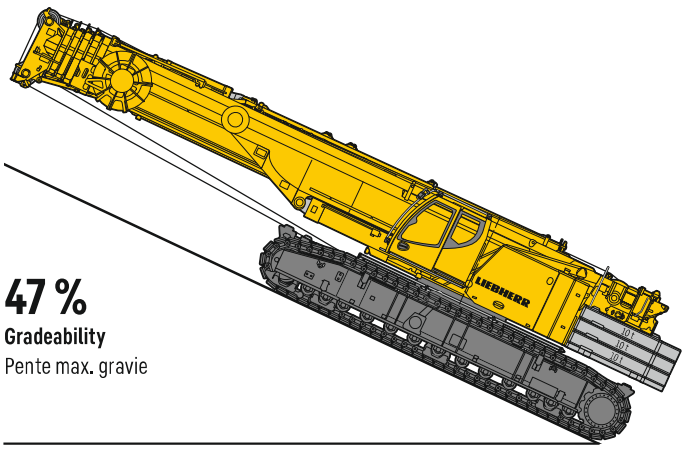




Crane operation with side inclination
Utilisation de la grue en inclinaison latérale

Additional operational possibilities are offered by the load charts programmed as standard for working with main boom and assembly jib on surfaces with an inclination up to 4°.

Les possibilités d'application de la grue sont étendues grâce aux tableaux des charges programmés de série permettant d'utiliser la grue avec une inclinaison latérale pouvant aller jusqu'à 4°.



47 %
Gradeability
Pente max. gravie

Great operational diversity
Grande polyvalence

High flexibility
Haute flexibilité

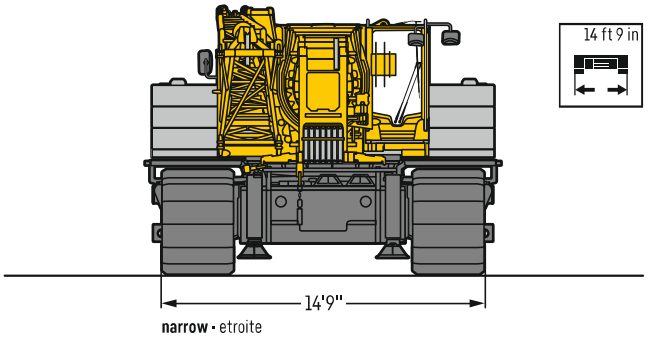
Due to its extraordinary cross-country mobility and the possibility to drive sensitively with full load, the LTR 1220 offers an extraordinary operation diversity.

Grâce à son excellent comportement en tout-terrain et sa souplesse de déplacement à pleine charge, la LTR 1220 permet une utilisation extrêmement flexible.

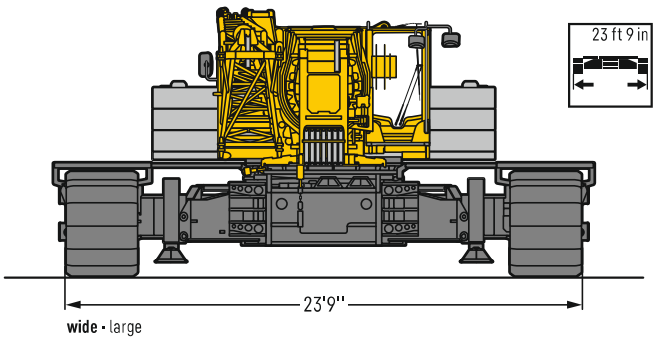
Telescopable crawlers
Longerons télescopables

The chassis of the LTR 1220 can be hydraulically telescoped from the chassis width of 14 ft 9 inch to the intermediate width of 19 ft 3 inch or the maximum width of 23 ft 9 inch. Additionally the LTR 1220 also operates on an asymmetric track. Thus the full capacity can be utilised when working over the side at which the crawler is fully extended.

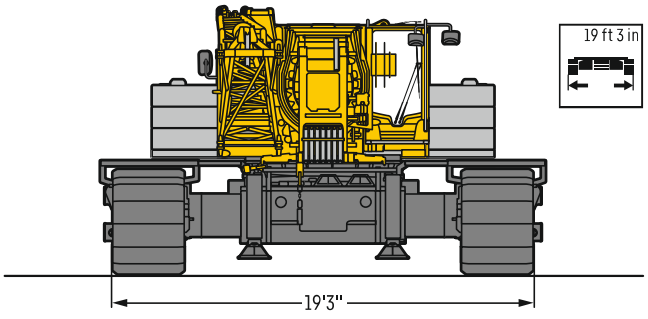
Les longerons de la LTR 1220 peuvent être sortis hydrauliquement d'une largeur de 14 ft 9 inch à une largeur intermédiaire de 19 ft 3 inch, ou à la largeur maximale de 23 ft 9 inch. Par ailleurs, la LTR 1220 travaille également sur voie asymétrique. La capacité peut ainsi être exploitée intégralement, lorsque la grue travaille du côté où le longeron est complètement sorti.



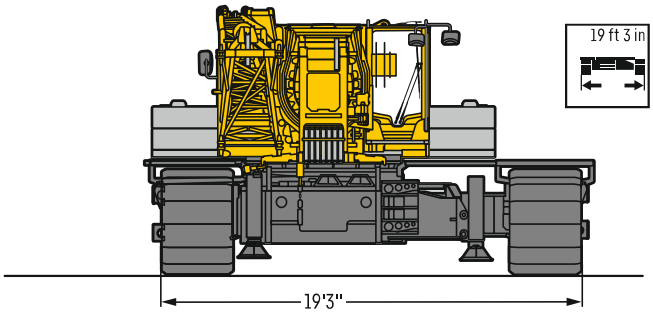
narrow · etroite



wide · large

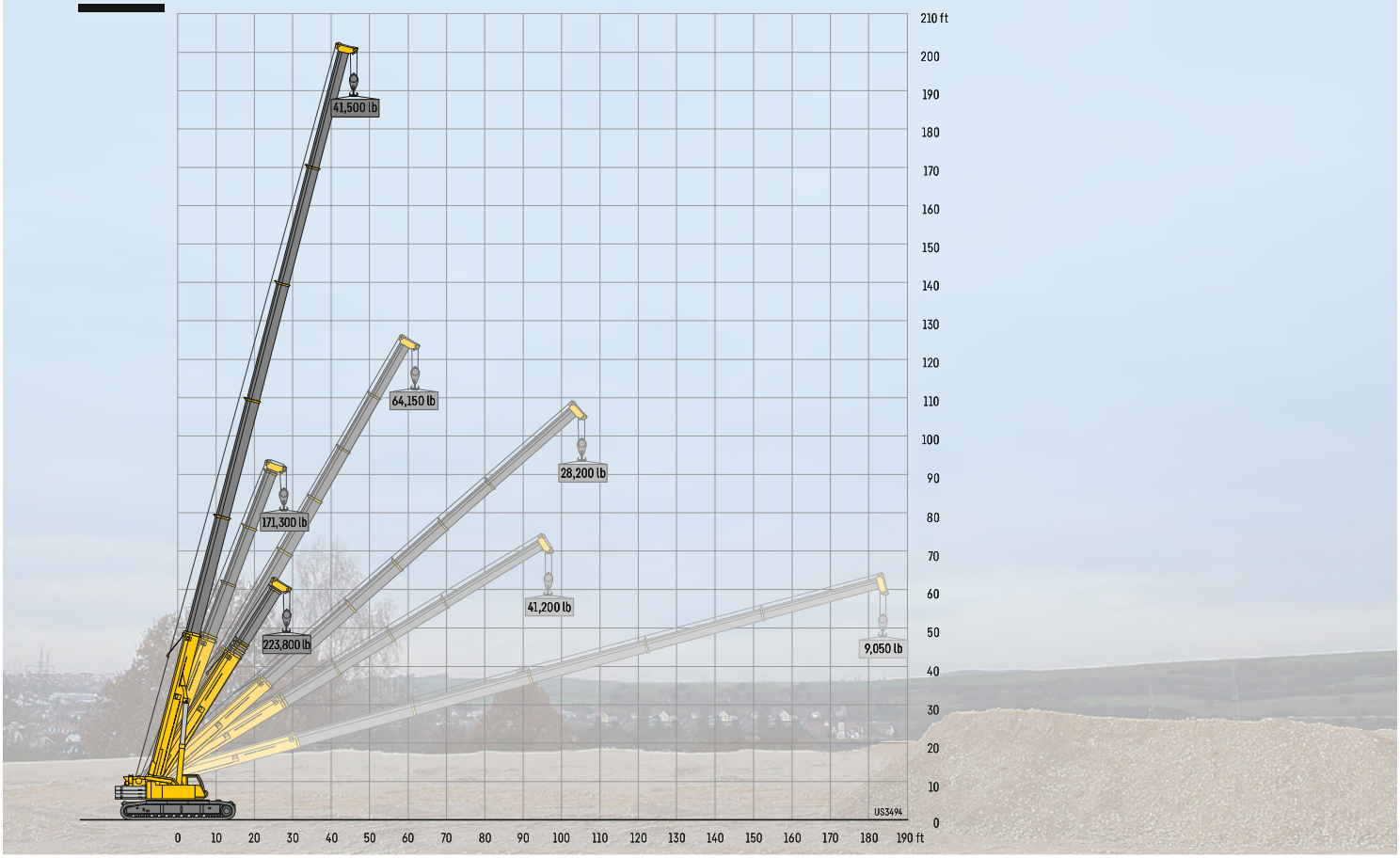


medium · moyenne



asymmetric · asymétrique

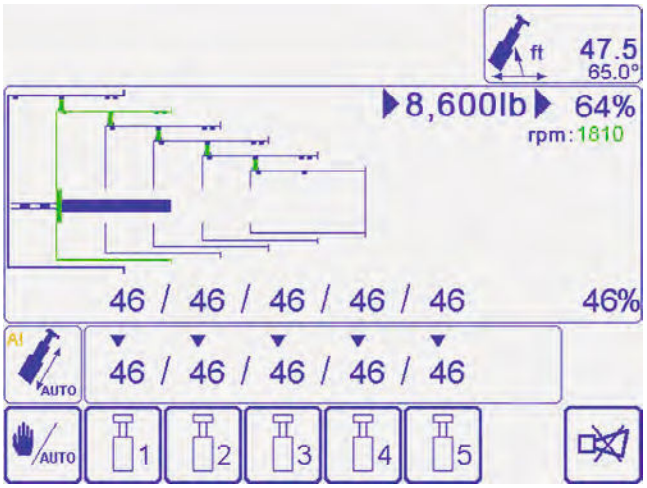
Maximum load capacity over the fully extended crawler
Capacité de charge maximale sur longerons complètement sortis



The fully automatic telescoping system “TELEMATIK“ Le système de télescopage entièrement automatique « TELEMATIK »

- **Greater lifting capacities with longer booms and larger radii thanks to ‚light‘ telescoping system**
- **Maintenance-free telescoping system**
- **Fully automatic telescoping**
- **Easiest control and monitoring**

- Augmentation des capacités de charge grâce aux flèches plus longues et vastes portées garanties par un système de télescopage « léger »
- Système de télescopage sans entretien
- Télescopage entièrement automatique
- Utilisation simplifiée



Intelligent crane control
Commande intelligente de la grue

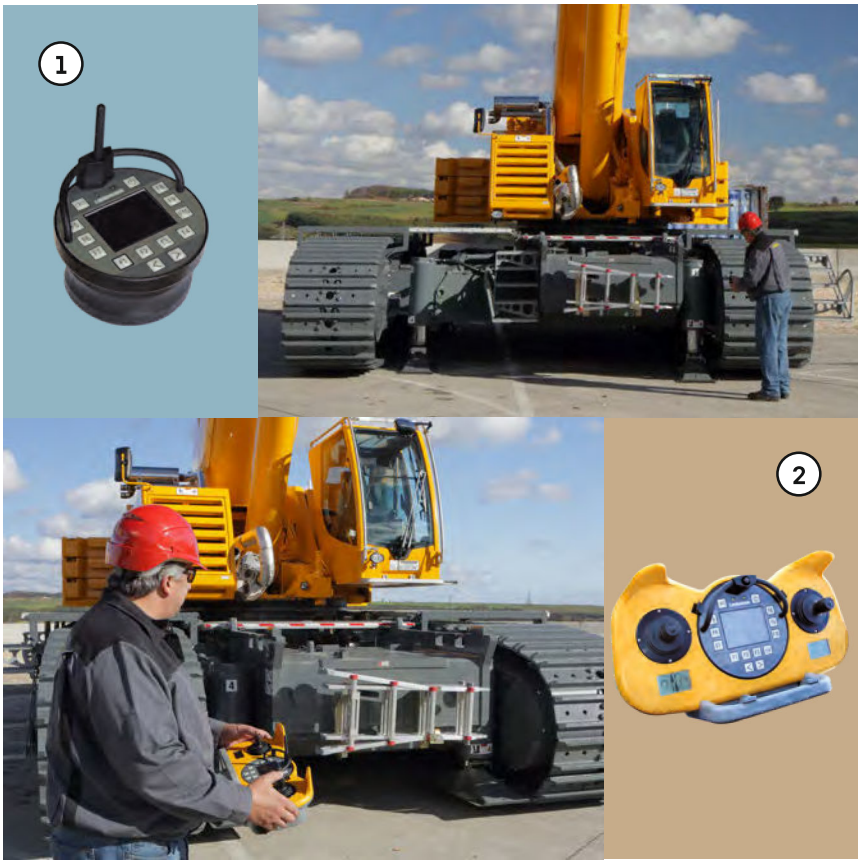
LICCON2 – safe and comfortable · sécurité et confort

With the mobile control and display unit BTT Bluetooth Terminal erection operations, like the actuation of the jack-up cylinders and the track adjustment can be per-formed comfortably and safely with intervisibility. With the remote control on the LTR 1220, as well as the complete operation of all the crane movements, the crawler chassis travel can also be controlled. The unrestricted view of the crane and the load means that safety and convenience of operation can now be impro-ved even further.

Les unités de commande et d'affichage BTT Bluetooth Terminal permettent de piloter les vérins de calage et le réglage de la voie sans danger et confortablement, en gardant un contact visuel. Outre le pilotage de tous les mouvements de la grue de la LTR 1220, cette commande radio à distance permet également le déplacement du train de chenilles. La visibilité optimale sur la grue et la charge est propice à une sécurité accrue et un meilleur confort.

1 **Track adjustment with BTT**
Réglage de la voie avec le BTT

2 **Driving of the crawler chassis and complete crane operation with radio remote control (option)**
Déplacement des chenilles et pilotage intégral de la grue avec la commande radio à distance (en option)



Crane data
Dates de la grue

	**Total driving force** Puissance propulsive totale	254,000 lb
	**Total weight with 154,350 lb counterweight, 44,100 lb central ballast, 3-sheave hook block and 3 ft 3 in track pads** Poids total avec contrepoids de 154,350 lb, lest central de 44,100 lb, moufle à crochet à 3 poulies et des tuiles de 3 ft 3 in	~402,350 lb
	**Average ground pressure without jack-up cylinders at ~402,350 lb total weight and with 3 ft 3 in track pads** Pression au sol moyenne sans vérin Jack-up pour un poids total de ~402,350 lb et des tuiles de 3 ft 3 in	16.5 lb/inch²
	**Travel speeds** · Vitesses de translation	0 – 0.37 mph 0 – 1.18 mph
	**Max. permissible gradability** · Pente admissible maxi.	47 %

Hook block · Moufles à crochet

332,9 kip	9	16	4,400 lb
314,4 kip	7	15	3,300 lb
237,4 kip	5	11	2,870 lb
155,6 kip	3	7	2,290 lb
68,7 kip	1	3	1,850 lb
23,1 kip	-	1	1,100 lb

Crane superstructure · Partie tournante

	max	⌀		F
1	**0 – 426 ft/min single line** · au brin simple	23 mm	1150 ft	23605 lb
2	**0 – 426 ft/min single line** · au brin simple	23 mm	920 ft	23605 lb
360°	**0 – 1.7 rpm**			
	**approx. 75 seconds to reach 82° boom angle** env. 75 s jusqu'à 82°			
	**approx. 580 seconds for boom extension from 44 ft – 197 ft** env. 580 s pour passer de 44 ft – 197 ft			

Overview of load charts
Aperçu des tableaux de charge

T	23 ft 9 in	19 ft 3 in	14 ft 9 in
154,350 lb 110,230 lb 66,100 lb 22,050 lb 0 lb — 44,100 lb	n.h. ±10° / 360°	n.h./n.v. ±30° / 360°	n.h./n.v. ±30° / 360°
0 lb — 0 lb	n.h. ±10° / 360°	n.h./n.v. ±30° / 360°	n.h./n.v. ±30° / 360°

T — 11 ft HK	23 ft 9 in	19 ft 3 in	14 ft 9 in
154,350 lb 110,230 lb 66,100 lb 22,050 lb 0 lb — 44,100 lb	360°	n.h./n.v. ±30° / 360°	n.h./n.v. ±30° / 360°
0 lb — 0 lb	360°	n.h./n.v. ±30° / 360°	n.h./n.v. ±30° / 360°

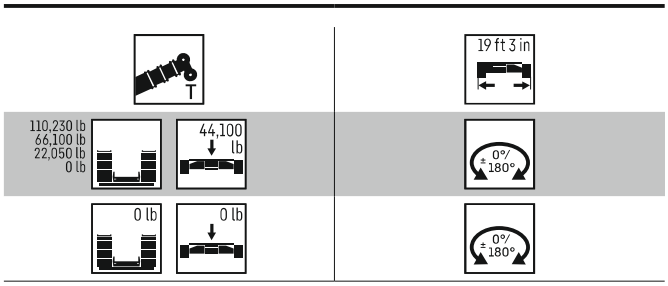
T — K NZK	23 ft 9 in	19 ft 3 in	14 ft 9 in
154,350 lb 110,230 lb 66,100 lb — 44,100 lb	360°	360°	-
22,050/0 lb — 44,100 lb	360°	-	-

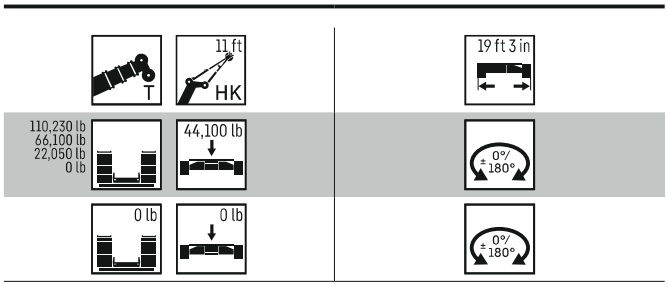
T — V — K NZK	23 ft 9 in	19 ft 3 in	14 ft 9 in
154,350 lb 110,230 lb 66,100 lb — 44,100 lb	360°	360°	-
22,050 lb — 44,100 lb	360°	-	-

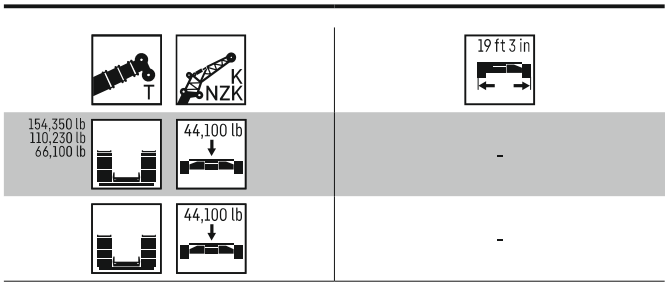
ballast versions see operation manual • variantes de lestage, voir le manuel d'instructions

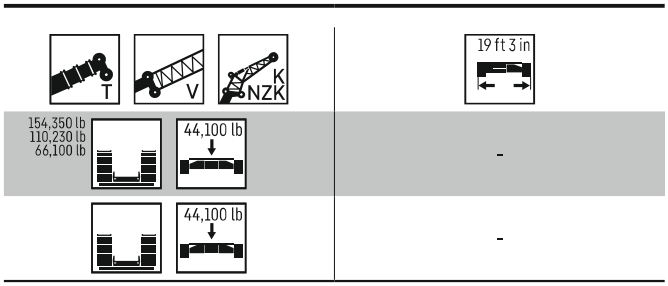
n.v./n.h. = **over front/over rear** • en avant/en arrière

Overview of load charts
Aperçu des tableaux de charge









ballast versions see operation manual
variantes de lestage, voir le manuel d'instructions

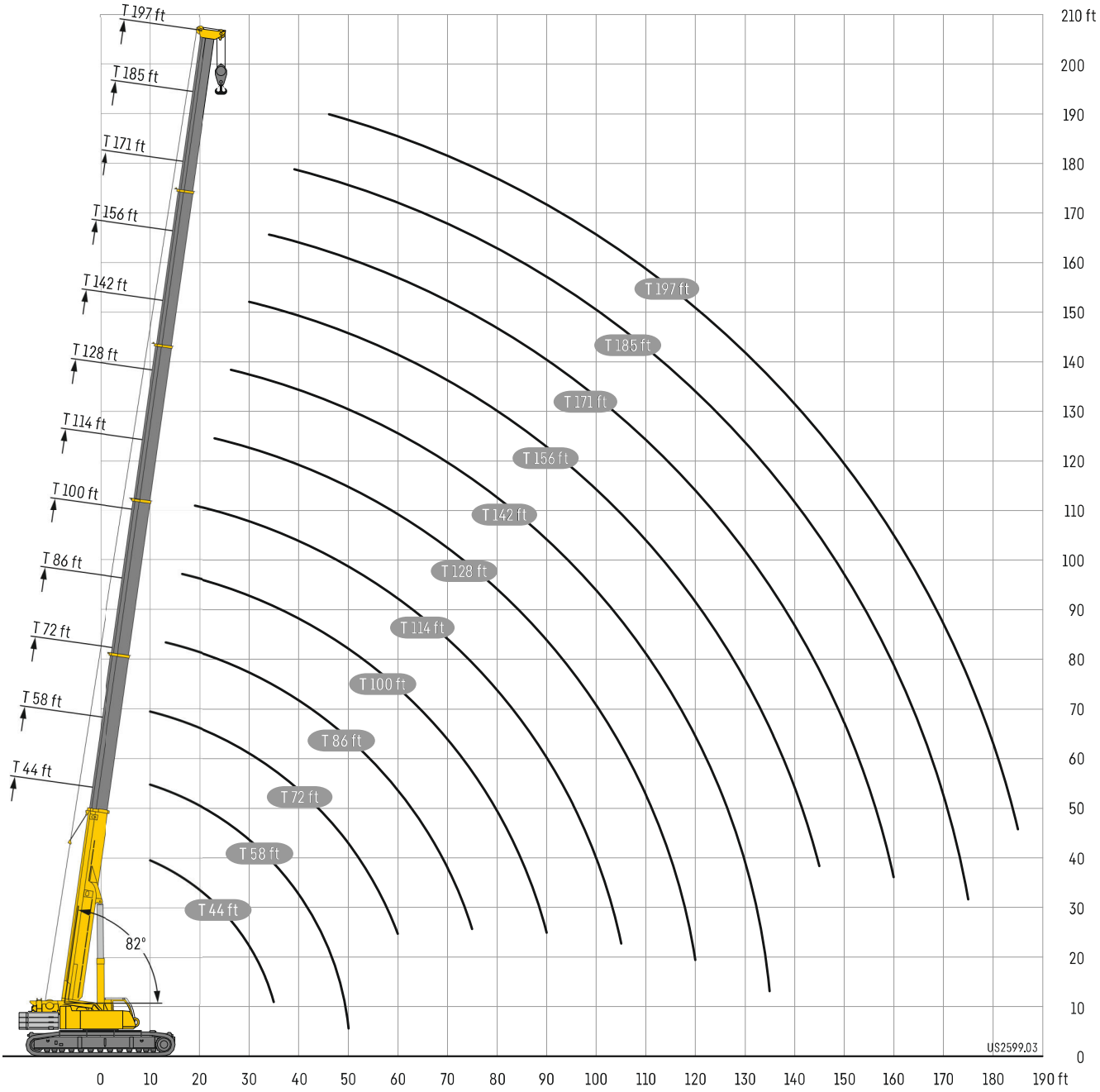
n.v./n.h. = over front/over rear • en avant/en arrière

Boom/jib combinations
Configurations de flèche

T	**Telescopic boom** • Flèche télescopique
K/NZK	**Mechanically/hydraulically adjustable folding jib** • Pointe pliante reglable mecaniquement/hydrauliquement
V	**Telescopic boom extension** • Rallonge de flèche télescopique
HK	**Assembly jib** • Fléchette de montage



Lifting heights
Hauteurs de levage



Lifting capacities
Forces de levage

T



	44 ft		58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
	*													
10	485	295.4	295.4	295.4										10
11	330	295.4	295.4	295.4										11
12	323	294.1	295.2	293.9	240.9									12
13	311.2	290.2	289.5	288.3	261.8									13
14	292.4	277.9	278.2	276.9	263.7									14
15	277.9	266.7	266.9	263.5	259									15
16	265.4	256.1	255.8	249.8	244.8	216.9								16
17	254.2	246.2	245.8	240.2	235.6	216.5								17
18	244.5	237	237.4	231.7	226.3	215								18
19	235.5	228.2	229.4	223.2	217.7	212.1	176							19
20	226.9	219.7	221.2	215.2	210	205.8	175.4							20
22	211.2	204.3	206	201.3	195.8	191.7	174	117.7						22
24	196.8	190.7	192.5	188.7	183.5	179.3	171.7	124.8						24
26	183.3	178.6	180.4	177.6	172.6	168.4	167.1	120.8	99.5					26
28	170.3	167.7	169.5	167.6	163.1	160.6	158.2	116.4	98.7					28
30	157.3	157	159.2	158.7	154.4	153	149.6	111.9	96.2	81				30
32	143.3	143.3	150.1	150.5	146.4	145.4	141.8	107.6	93.4	79.6				32
34	126.7	126.7	141.5	142	139.1	138.1	134.8	103.4	90.4	77.9	64.6			34
36	99.3	99.3	133.3	133.9	132.7	131.8	128.5	99.2	87.4	75.9	63.8			36
38			125.9	126.5	125.8	125.9	122.8	95.1	84.9	73.9	62.5			38
40			118.8	119.5	118.9	120.4	117.3	91.2	82.6	71.9	61.2	52.1		40
45			101.7	104.2	103.5	105.5	104.2	82.7	76.8	67.1	57.7	49.8	41.8	45
50			68.8	90.8	93.3	92.3	90.8	75.1	70.9	62.8	54.3	47.1	40	50
55				82.2	82.3	81.3	80	68.7	65.5	58.8	51.1	44.6	38	55
60				72.1	73.4	72.4	71	63.4	60.6	54.9	48.2	42.2	36.1	60
65					65.9	64.9	63.5	59.7	56.1	51.3	45.6	39.9	34.3	65
70					59.7	58.6	57.2	56.6	52.2	48	43.1	37.9	32.6	70
75					52	53.2	51.7	53.5	48.5	45.1	40.9	36	31	75
80						48.5	47.2	48.8	45.3	42.4	38.8	34.2	29.5	80
85						44.4	45	44.6	42.2	39.9	36.9	32.5	28	85
90						39.4	42.4	40.9	39.2	37.9	35.1	30.9	26.7	90
95							39.2	37.6	36	35.9	33.3	29.5	25.4	95
100							36.3	34.7	33.9	33.8	31.6	28.1	24.3	100
105							28.2	32.1	31.8	31.3	29.9	26.8	23.2	105
110								29.7	30.4	28.9	28.3	25.7	22.2	110
115								27.5	28.3	26.7	26.7	24.5	21.2	115
120								20.5	26.3	25.4	25	23.5	20.3	120
125									24.5	23.8	23.2	22.5	19.4	125
130									22.4	22.7	21.5	21.1	18.6	130
135									12.6	21.4	19.9	19.6	17.8	135
140										19.9	18.9	18.1	17.1	140
145										17.1	18	16.8	16.5	145
150											16.8	15.5	15.7	150
155											15.7	14.4	14.6	155
160											12.2	13.3	13.5	160
165												12.3	12.5	165
170												11.4	11.5	170
175												7.7	10.6	175
180													9.8	180
185													8.1	185

* 0° = **over rear/front** · en arrière/avant

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Lifting capacities
Forces de levage

T



	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
10	295.4	295.4	295.4										10
11	295.4	295.4	295.4										11
12	294.1	295.2	293.9	240.9									12
13	290.2	289.5	288.3	261.8									13
14	277.9	278.2	276.9	263.7									14
15	266.7	266.9	263.5	259									15
16	256.1	255.8	249.8	244.8	216.9								16
17	246.2	245.8	240.2	235.6	216.5								17
18	237	237.4	231.7	226.3	213.6								18
19	228.2	229.4	223.2	217.7	207.7	176							19
20	219.7	221.2	215.2	210	200.8	175.4							20
22	204.3	206	201.3	195.8	187	169.7	117.7						22
24	190.7	192.5	188.7	183.5	175.5	160.4	124.8						24
26	178.6	180.4	177.6	172.6	168.2	151.3	120.8	99.5					26
28	167.7	169.5	167.6	162.5	158.7	143	116.4	98.7					28
30	156.8	159.1	158.7	151.4	147	135.6	111.9	96.2	81				30
32	142.5	145.4	146.1	140.2	137	128.8	107.6	93.4	79.6				32
34	126.7	132.6	133.6	130.4	127.6	120.8	103.4	90.4	77.9	64.6			34
36	99.3	121.8	122.7	123.7	119.8	113.3	99.2	87.4	75.9	63.8			36
38		112.4	113.3	116	112.5	106.7	95.1	84.9	73.9	62.5			38
40		105.5	107	107.6	106	100.5	91.2	82.6	71.9	61.2	52.1		40
45		88.9	90.6	90.9	90.1	87.6	82.6	76.8	67.1	57.7	49.8	41.8	45
50		68.8	78	78.2	77.4	76	73.1	70.9	62.8	54.3	47.1	40	50
55			68.1	68.2	67.3	66.2	66.8	64.9	58.8	51.1	44.6	38	55
60			60.2	60.3	59.4	59.3	59.9	58.1	54.9	48.2	42.2	36.1	60
65				53.7	52.8	54.6	53.3	51.9	51	45.6	39.9	34.3	65
70				48.3	47.9	49.1	47.8	47.1	46.5	43.1	37.9	32.6	70
75				43.7	45.1	44.3	43	42.9	42.4	40.9	36	31	75
80					41.2	40.3	39.1	39.8	38.4	38.1	34.2	29.5	80
85					37.8	36.8	35.9	36.3	35.6	34.8	32.5	28	85
90					34.8	33.8	33.9	33.2	32.7	32.2	30.9	26.7	90
95						31.1	31.7	30.4	30.4	29.4	29.1	25.4	95
100						28.8	29.3	28.2	28.2	27.4	26.7	24.3	100
105						26.7	27.2	26.2	26	25.6	24.5	23.2	105
110							25.2	24.7	24.1	23.6	22.5	22.2	110
115							23.5	23.3	22.3	21.8	20.6	20.8	115
120							20.5	21.7	20.7	20.1	18.9	19.1	120
125								20.3	19.4	18.6	17.3	17.6	125
130								19	18	17.1	15.9	16.1	130
135								12.6	16.7	15.8	14.6	14.8	135
140									15.5	14.6	13.4	13.6	140
145									14.4	13.5	12.3	12.5	145
150										12.5	11.2	11.4	150
155										11.5	10.2	10.4	155
160										10.7	9.4	9.5	160
165											8.5	8.7	165
170											7.8	7.9	170
175											7.1	7.1	175
180												6.4	180
185												5.8	185

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GUAY

Lifting capacities
Forces de levage

T

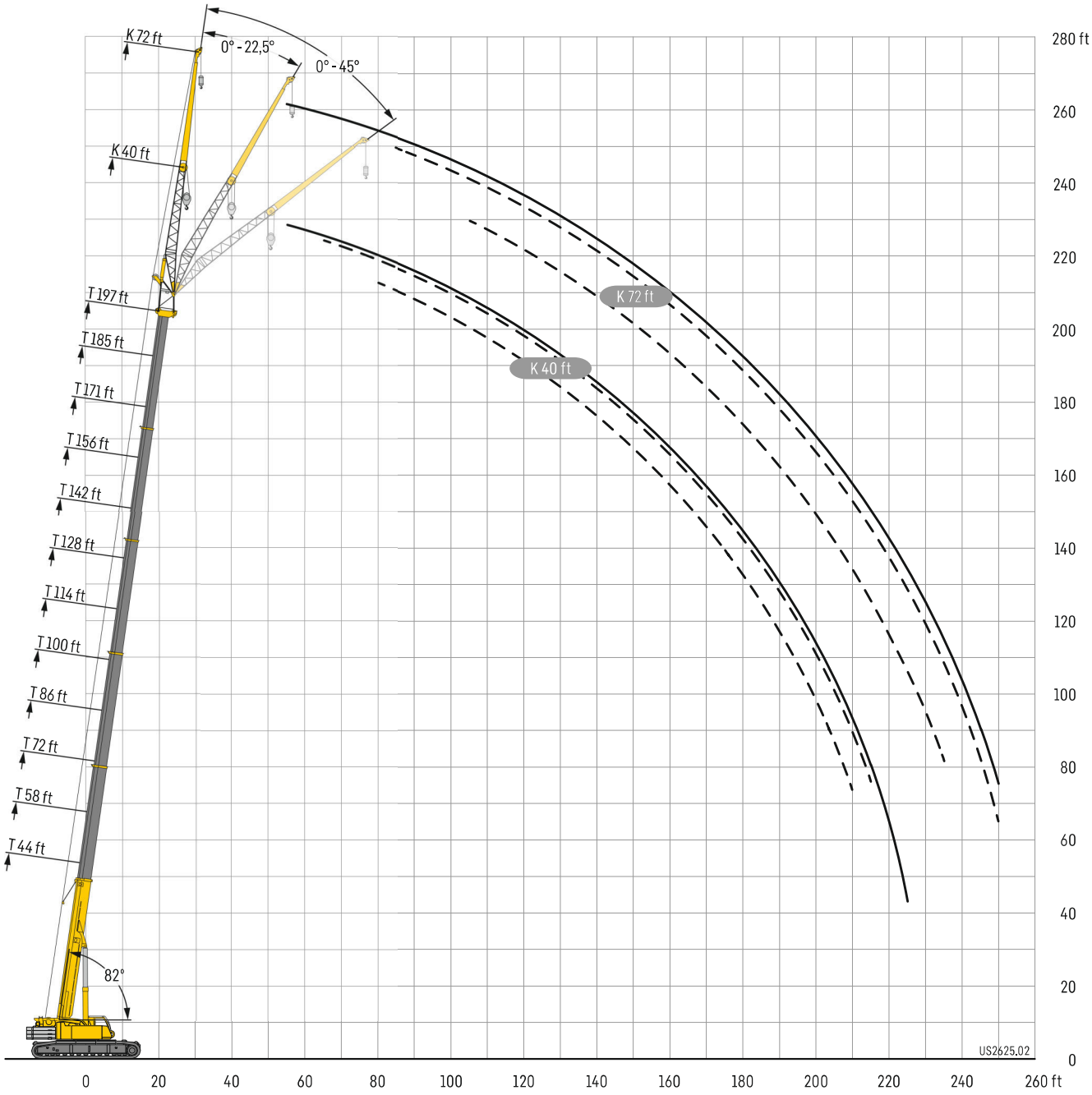


	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
10	294	237.9	189.2										10
11	265.4	224	179.5										11
12	237.6	209.6	170.6	135.9									12
13	213.3	193.7	162.4	136.6									13
14	193.9	179.2	155.1	132.1									14
15	177.5	165.2	148.3	127.3									15
16	196.7	182.9	141.4	122.6	106								16
17	196.4	179.1	164.6	136.6	102.7								17
18	190.4	174.3	161.3	131.6	99.5								18
19	178.8	165.6	152.7	130.5	96.4	85.3							19
20	167.8	159.4	144	126.1	107.9	82.9							20
22	145.8	142.7	133	122.4	101.3	91.7	69.4						22
24	127.2	128.8	123.2	112.5	99.5	86.7	66.5						24
26	112.5	116.4	112.4	106.6	99.7	87.5	76.1	56.8					26
28	100.5	104.5	103.1	98.4	94.5	84.8	76.6	68					28
30	116.2	94.3	95.2	105.4	89.3	82.6	74.5	67.1	60.4				30
32	105.8	105.2	103.6	97.4	83.3	78.5	73.1	65.7	59.1				32
34	96.9	99.3	97.6	93.5	77.7	73.5	70.2	64.3	58.4	52.9			34
36	89.1	91.5	89.8	87.4	82.4	68.9	67.3	61.8	56.3	51			36
38		85.9	85.5	81.4	80.8	64.9	63.6	59.6	54.3	49.2			38
40		79.9	79.5	78.9	75.9	71.7	60	57.5	52.4	47.5	42.7		40
45		67.6	69.2	69.4	68.6	66.8	63.4	59.8	48.1	43.6	39.1	37.1	45
50		58.2	59.6	59.8	61.7	59.6	58.7	55.7	52.7	40	36	34.2	50
55			52.5	52.2	54	53.2	52.2	51.2	49.2	47.2	32.9	31.6	55
60			46.4	47.7	47.8	46.9	47.7	46.5	45	42.8	40.8	36.1	60
65				42.7	42.6	41.8	42.6	41.7	40.7	39.1	36.8	34.3	65
70				38.4	38.3	38.7	38.2	37.9	36.9	35.5	33.2	32.6	70
75				34.8	34.6	35.1	34.5	34.4	33.8	32.3	30.1	29.8	75
80					31.6	31.9	31.3	31.2	30.6	29.4	27.3	27.1	80
85					29	29.1	28.8	28.4	27.8	26.9	24.8	24.6	85
90					26.6	26.7	26.3	25.9	25.3	24.5	22.6	22.4	90
95						24.6	24.2	23.7	23.1	22.3	20.6	20.4	95
100						22.7	22.2	21.8	21.1	20.3	18.8	18.6	100
105						21	20.5	20	19.3	18.4	17.1	17	105
110							18.9	18.4	17.6	16.7	15.5	15.5	110
115							17.4	16.9	16.1	15.2	14	14.2	115
120							16.1	15.5	14.7	13.8	12.6	12.8	120
125								14.3	13.4	12.5	11.3	11.6	125
130								13.2	12.3	11.4	10.2	10.4	130
135								12.2	11.2	10.3	9.1	9.3	135
140									10.2	9.3	8.1	8.3	140
145									9.4	8.4	7.2	7.4	145
150										7.6	6.4	6.5	150
155										6.8	5.6	5.7	155
160										6.2	4.9	5	160
165											4.2	4.3	165
170											3.6	3.7	170
175											3	3.1	175
180												2.5	180

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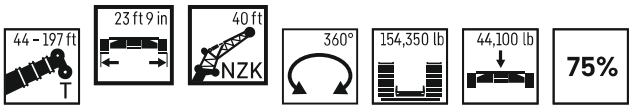
Lifting heights
Hauteurs de levage

TNZK



Lifting capacities
Forces de levage

TNZK



	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
10	46.1																		10
11	46.1			46.1															11
12	46.1			46.1															12
13	46.1			46.1			46.1												13
14	46.1			46.1			46.1												14
15	46.1			46.1			46.1												15
16	46.1			46.1			46.1			46.1									16
17	46.1			46.1			46.1			46.1									17
18	46.1			46.1			46.1			46.1									18
19	46.1			46.1			46.1			46.1			46.1						19
20	46.1			46.1			46.1			46.1			46.1						20
22	46.1			46.1			46.1			46.1			46.1						22
24	46.1	36.8		46.1			46.1			46.1			46.1			46.1			24
26	46.1	35		46.1	36.6		46.1			46.1			46.1			46.1			26
28	46.1	33.3		46.1	35.1		46.1			46.1			46.1			46.1			28
30	45.7	31.8		46.1	33.7		46.1	34.5		46.1			46.1			46.1			30
32	44.4	30.5		46.1	32.4		46.1	33.3		46.1			46.1			46.1			32
34	42.9	29.3	23.2	46.1	31.2		46.1	32.2		46.1	33.2		46			45.8			34
36	41.4	28.2	23.2	45.9	30.1	23.2	46	31.2		46.1	32.2		45.3	32.6		45.3			36
38	39.5	27.2	23.1	44.7	29.1	23.2	45.8	30.2		45.6	31.3		44.5	31.7		44.5			38
40	37.3	26.2	22.7	43	28.2	23.2	44.5	29.3	23.2	45.1	30.4		43.2	30.9		43.5	31.5		40
45	32.5	24.1	21.5	38.5	26	22.3	40.7	27.3	22.7	43.2	28.4		39.6	29		40.3	29.7		45
50	28.7	22.3	20.5	34.3	24.3	21.3	37.2	25.6	21.8	39.9	26.7	22.3	36.3	27.4	22.6	37.4	28.1		50
55	25.6	20.8	19.8	30.8	22.7	20.5	33.9	24.1	21.1	36.9	25.3	21.6	33.5	26	21.8	34.8	26.6	22.1	55
60	23.2	19.5	19.2	27.8	21.4	19.9	31.2	22.8	20.4	34.2	23.9	20.9	31	24.7	21.2	32.4	25.4	21.5	60
65	21	18.5	19	25.3	20.2	19.4	28.8	21.6	19.9	31.8	22.8	20.4	28.9	23.5	20.7	30.3	24.3	21	65
70	19.2	17.6	10.4	23.3	19.2	19.1	26.6	20.6	19.5	29.5	21.8	19.9	26.8	22.5	20.2	28.5	23.3	20.5	70
75	17.6	17.4		21.4	18.4	19	24.7	19.7	19.1	27.5	20.9	19.5	25.1	21.7	19.8	26.8	22.4	20.1	75
80				19.8	17.7		22.9	18.9	19	25.7	20.1	19.2	23.4	20.8	19.5	25.2	21.6	19.8	80
85				18.5	17.3		21.4	18.3	18.9	24.2	19.3	19.1	22	20.1	19.3	23.8	20.9	19.5	85
90				17.3			20.1	17.7	18.9	22.7	18.7	19	20.6	19.4	19	22.4	20.2	19.3	90
95							18.9	17.4		21.4	18.2	19	19.4	18.8	18.7	21.2	19.7	19.1	95
100							17.9	17.3		20.2	17.7	19	18.3	18	18.1	20.1	19	18.9	100
105										19.2	17.4	19	17.3	17.1	17.3	19.1	18.4	18.3	105
110										18.3	17.3		16.3	16.2	16.5	18.1	17.7	17.6	110
115										17.5			15.5	15.4	15.7	17.3	16.9	17	115
120													14.7	14.7		16.5	16.2	16.4	120
125													14.1	14.1		15.7	15.6	15.8	125
130													13.5			15.1	15	15.2	130
135																14.5	14.4		135
140																14			140
145																13.5			145

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Lifting capacities
Forces de levage

TNZK

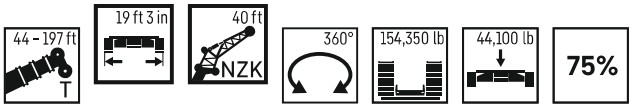


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
30	42.6			45.3															30
32	42.4			45.1															32
34	42.2			44.9															34
36	41.9			44.6			40.4												36
38	41.7			44.3			40.2												38
40	41.2			44			40			34.7									40
45	38.8			43			39.3			34.3									45
50	36	28.3		41.8	30.5		38.6			33.9			28.5						50
55	33.6	27	22.2	40.6	29		37.8	29.3		33.5			28			24			55
60	31.4	25.7	21.7	39.4	27.6	22.3	37	27.9	22.6	32.9	27.6		27.6			23.6			60
65	29.3	24.7	21.1	37.8	26.4	21.8	36.1	26.8	22	32.1	26.5		27.3			23.2	22.2		65
70	27.4	23.7	20.7	36	25.3	21.3	34.9	25.7	21.5	31	25.5	21.5	26.8	24.8		22.9	22		70
75	25.7	22.9	20.3	34.1	24.4	20.9	33.6	24.8	21.1	29.7	24.5	21	25.8	24	20.9	22.5	21.6		75
80	24.2	22.1	19.9	32.2	23.5	20.5	32.1	23.9	20.7	28.2	23.7	20.6	24.8	23.2	20.6	21.6	20.7	19.7	80
85	22.7	21.3	19.7	30.4	22.8	20.2	30.5	23.1	20.4	26.9	23	20.3	23.7	22.5	20.2	20.6	20	19	85
90	21.4	20.5	19.4	28.8	22	19.9	29	22.4	20.1	25.7	22.3	20.1	22.7	21.7	20	19.7	19.2	18.3	90
95	20.2	19.7	19.1	27.2	21.4	19.6	27.6	21.8	19.8	24.5	21.7	19.8	21.7	20.9	19.7	18.9	18.5	17.7	95
100	19.1	18.8	18.8	25.8	20.8	19.4	26.4	21.2	19.6	23.3	21.2	19.6	20.8	20.2	19.3	18.1	17.8	17.1	100
105	18.1	17.8	17.9	24.5	20.2	19.2	25.1	20.6	19.4	22.3	20.6	19.4	19.9	19.4	18.7	17.2	17.1	16.5	105
110	17.1	16.9	17.1	23.2	19.7	19.1	23.9	20.1	19.2	21.3	20.1	19.3	19	18.7	18.1	16.5	16.4	16	110
115	16.2	16.1	16.3	22.1	19.3	19	22.9	19.7	19.1	20.3	19.5	19	18.2	18	17.5	15.7	15.8	15.5	115
120	15.4	15.3	15.5	21	18.8	18.9	21.8	19.2	19	19.4	18.9	18.6	17.5	17.3	16.9	15	15.1	14.9	120
125	14.6	14.6	14.8	20	18.5	18.9	20.8	18.8	19	18.6	18.3	18.1	16.7	16.6	16.4	14.4	14.4	14.4	125
130	13.9	13.9	14.1	19.1	18.1	18.8	19.8	18.5	18.9	17.8	17.7	17.6	16	15.9	15.8	13.7	13.8	13.8	130
135	13.2	13.3	13.5	18.2	17.8	18.3	18.3	18.2	18.6	17	17	16.9	15.4	15.3	15.2	13.1	13.2	13.3	135
140	12.5	12.6	12.9	17.4	17.4	17.6	16.8	17.7	18.2	16.3	16.3	16.3	14.7	14.7	14.7	12.5	12.6	12.7	140
145	12	12.1		16.6	16.7	16.9	15.5	16.5	17.3	15.6	15.6	15.7	14.1	14.1	14.1	11.9	12.1	12.2	145
150	11.4	11.5		15.7	16	16.2	14.3	15.2	15.8	14.5	15	15.1	13.6	13.5	13.6	11.4	11.5	11.7	150
155	11			14.6	15.2	15.4	13.6	14	14.5	13.4	14.2	14.5	13	13	13.1	10.9	11	11.2	155
160	9.9			13.5	14		13	13.1	13.3	12.3	13.2	13.7	12.5	12.5	12.6	10.4	10.5	10.7	160
165				12.6	12.9		12.4	12.6	12.7	11.4	12.1	12.6	11.8	12.1	12.1	10	10.1	10.3	165
170				10.9	11.6		11.7	12	12.2	10.9	11.1	11.5	10.9	11.5	11.7	9.5	9.7	9.8	170
175				5.4			10.9	11.3		10.5	10.6	10.7	10	10.7	11.2	9.2	9.3	9.4	175
180							10	9.3		10	10.2	10.3	9.3	9.8	10.3	8.8	8.9	9.1	180
185							8.5	9		9.7	9.8		8.6	9.1	9.4	8.4	8.6	8.7	185
190										9.1	9.4		8	8.4	8.7	7.8	8.2	8.4	190
195										8.3			7.4	7.8	8	7.2	7.7	8	195
200										5.4			6.9	7.2	7.3	6.6	7.1	7.3	200
205													6.4	6.6	6.6	6.1	6.5	6.7	205
210													5.3	6		5.6	6	6	210
215													2.2			5.1	5.4		215
220																4.6			220
225																2.5			225

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Lifting capacities
Forces de levage

TNZK



	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
10	46.1																		10
11	46.1			46.1															11
12	46.1			46.1															12
13	46.1			46.1			46.1												13
14	46.1			46.1			46.1												14
15	46.1			46.1			46.1												15
16	46.1			46.1			46.1			46.1									16
17	46.1			46.1			46.1			46.1									17
18	46.1			46.1			46.1			46.1									18
19	46.1			46.1			46.1			46.1			46.1						19
20	46.1			46.1			46.1			46.1			46.1						20
22	46.1			46.1			46.1			46.1			46.1						22
24	46.1	36.8		46.1			46.1			46.1			46.1			46.1			24
26	46.1	35		46.1	36.6		46.1			46.1			46.1			46.1			26
28	46.1	33.3		46.1	35.1		46.1			46.1			46.1			46.1			28
30	45.7	31.8		46.1	33.7		46.1	34.5		46.1			46.1			46.1			30
32	44.4	30.5		46.1	32.4		46.1	33.3		46.1			46.1			46.1			32
34	42.9	29.3	23.2	46.1	31.2		46.1	32.2		46.1	33.2		46			45.8			34
36	41.4	28.2	23.2	45.9	30.1	23.2	46	31.2		46.1	32.2		45.3	32.6		45.3			36
38	39.5	27.2	23.1	44.7	29.1	23.2	45.8	30.2		45.6	31.3		44.5	31.7		44.5			38
40	37.3	26.2	22.7	43	28.2	23.2	44.5	29.3	23.2	45.1	30.4		43.2	30.9		43.5	31.5		40
45	32.5	24.1	21.5	38.5	26	22.3	40.7	27.3	22.7	43.2	28.4		39.6	29		40.3	29.7		45
50	28.7	22.3	20.5	34.3	24.3	21.3	37.2	25.6	21.8	39.9	26.7	22.3	36.3	27.4	22.6	37.4	28.1		50
55	25.6	20.8	19.8	30.8	22.7	20.5	33.9	24.1	21.1	36.9	25.3	21.6	33.5	26	21.8	34.8	26.6	22.1	55
60	23.2	19.5	19.2	27.8	21.4	19.9	31.2	22.8	20.4	34.2	23.9	20.9	31	24.7	21.2	32.4	25.4	21.5	60
65	21	18.5	19	25.3	20.2	19.4	28.8	21.6	19.9	31.8	22.8	20.4	28.9	23.5	20.7	30.3	24.3	21	65
70	19.2	17.6	10.4	23.3	19.2	19.1	26.6	20.6	19.5	29.5	21.8	19.9	26.8	22.5	20.2	28.5	23.3	20.5	70
75	17.6	17.4		21.4	18.4	19	24.7	19.7	19.1	27.5	20.9	19.5	25.1	21.7	19.8	26.8	22.4	20.1	75
80				19.8	17.7		22.9	18.9	19	25.7	20.1	19.2	23.4	20.8	19.5	25.2	21.6	19.8	80
85				18.5	17.3		21.4	18.3	18.9	24.2	19.3	19.1	22	20.1	19.3	23.8	20.9	19.5	85
90				17.3			20.1	17.7	18.9	22.7	18.7	19	20.6	19.4	19	22.4	20.2	19.3	90
95							18.9	17.4		21.4	18.2	19	19.4	18.8	18.7	21.2	19.7	19.1	95
100							17.9	17.3		20.2	17.7	19	18.3	18	18.1	20.1	19	18.9	100
105										19.2	17.4	19	17.3	17.1	17.3	19.1	18.4	18.3	105
110										18.3	17.3		16.3	16.2	16.5	18.1	17.7	17.6	110
115										17.5			15.5	15.4	15.7	17.3	16.9	17	115
120													14.7	14.7		16.5	16.2	16.4	120
125													14.1	14.1		15.7	15.6	15.8	125
130													13.5			15.1	15	15.2	130
135																14.5	14.4		135
140																14			140
145																13.5			145

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Lifting capacities
Forces de levage

TNZK

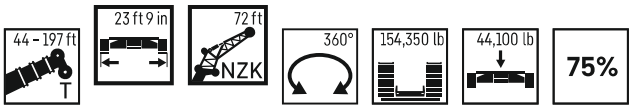


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
30	42.6			45.3															30
32	42.4			45.1															32
34	42.2			44.9															34
36	41.9			44.6			40.4												36
38	41.7			44.3			40.2												38
40	41.2			44			40			34.7									40
45	38.8			43			39.3			34.3									45
50	36	28.3		41.8	30.5		38.6			33.9			28.5						50
55	33.6	27	22.2	40.6	29		37.8	29.3		33.5			28			24			55
60	31.4	25.7	21.7	39.4	27.6	22.3	37	27.9	22.6	32.9	27.6		27.6			23.6			60
65	29.3	24.7	21.1	37.8	26.4	21.8	36.1	26.8	22	32.1	26.5		27.3			23.2	22.2		65
70	27.4	23.7	20.7	36	25.3	21.3	34.9	25.7	21.5	31	25.5	21.5	26.8	24.8		22.9	22		70
75	25.7	22.9	20.3	34.1	24.4	20.9	33.6	24.8	21.1	29.7	24.5	21	25.8	24	20.9	22.5	21.6		75
80	24.2	22.1	19.9	32.2	23.5	20.5	32.1	23.9	20.7	28.2	23.7	20.6	24.8	23.2	20.6	21.6	20.7	19.7	80
85	22.7	21.3	19.7	30.4	22.8	20.2	30.5	23.1	20.4	26.9	23	20.3	23.7	22.5	20.2	20.6	20	19	85
90	21.4	20.5	19.4	28.8	22	19.9	29	22.4	20.1	25.7	22.3	20.1	22.7	21.7	20	19.7	19.2	18.3	90
95	20.2	19.7	19.1	27.2	21.4	19.6	27.3	21.8	19.8	24.5	21.7	19.8	21.7	20.9	19.7	18.9	18.5	17.7	95
100	19.1	18.8	18.8	25.8	20.8	19.4	25.4	21.2	19.6	23.3	21.2	19.6	20.8	20.2	19.3	18.1	17.8	17.1	100
105	18.1	17.8	17.9	24.5	20.2	19.2	23.3	20.6	19.4	22.3	20.6	19.4	19.9	19.4	18.7	17.2	17.1	16.5	105
110	17.1	16.9	17.1	22.6	19.7	19.1	21.3	20.1	19.2	21.2	20.1	19.3	19	18.7	18.1	16.5	16.4	16	110
115	16.2	16.1	16.3	20.8	19.3	19	19.9	19.7	19.1	19.6	19.5	19	18.2	18	17.5	15.7	15.8	15.5	115
120	15.4	15.3	15.5	19.1	18.8	18.9	18.9	19	19	18	18.9	18.6	17.5	17.3	16.9	15	15.1	14.9	120
125	14.6	14.6	14.8	17.5	18.4	18.9	17.7	17.9	18.7	16.4	17.8	18.1	16.7	16.6	16.4	14.4	14.4	14.4	125
130	13.9	13.9	14.1	16.1	17.2	18	16.3	17.1	17.2	15.7	16.4	17.3	15.5	15.9	15.8	13.7	13.8	13.8	130
135	13.2	13.3	13.5	14.8	15.8	16.5	15	16.1	16.5	14.9	15	16	14.2	15.3	15.2	13.1	13.2	13.3	135
140	12.5	12.6	12.9	13.8	14.5	15.1	13.8	14.8	15.6	14.2	14.3	14.6	13	14.2	14.7	12.4	12.6	12.7	140
145	12	12.1		13.2	13.3	13.8	12.7	13.6	14.3	13.1	13.7	13.8	11.9	13	13.9	11.6	12.1	12.2	145
150	11.4	11.5		12.7	12.7	12.9	12.1	12.5	13.1	12.1	13	13.2	10.8	11.9	12.8	10.6	11.5	11.7	150
155	11			12.2	12.2	12.4	11.5	11.7	11.9	11.1	12	12.5	9.9	10.9	11.7	9.7	10.7	11.2	155
160	9.9			11.7	11.8		10.9	11.1	11.3	10.2	11	11.6	8.9	9.9	10.6	8.8	9.7	10.6	160
165				11.3	11.4		10.3	10.6	10.8	9.4	10.1	10.5	8.1	9	9.6	7.9	8.8	9.6	165
170				10.8	11		9.6	10	10.2	8.6	9.2	9.6	7.3	8.1	8.7	7.1	8	8.7	170
175				5.4			8.9	9.3		7.9	8.4	8.7	6.6	7.3	7.8	6.4	7.2	7.8	175
180							8.2	8.5		7.2	7.7	7.9	5.9	6.6	7	5.7	6.4	7	180
185							7.6	7.8		6.5	7		5.3	5.8	6.2	5	5.7	6.2	185
190										6	6.3		4.7	5.2	5.4	4.4	5	5.5	190
195										5.4			4.1	4.5	4.7	3.9	4.4	4.8	195
200										4.9			3.6	3.9	4	3.3	3.8	4.1	200
205													3.1	3.4	3.3	2.8	3.2	3.4	205
210													2.6	2.8		2.3	2.7	2.8	210
215													2.1			1.9	2.2		215
220																1.4			220

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Lifting capacities
Forces de levage

TNZK

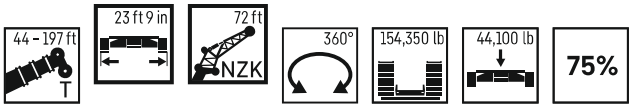


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
12	21.8																		12
13	22																		13
14	22.2																		14
15	22.2																		15
16	22.2			21.5															16
17	22.1			21.5															17
18	22.1			21.5															18
19	22			21.5			20.5												19
20	21.9			21.4			20.5												20
22	21.7			21.3			20.5			19.9									22
24	21.6			21.2			20.4			19.9									24
26	21.3			21			20.3			19.8			19						26
28	21.1			20.8			20.2			19.7			18.9						28
30	20.9			20.7			20			19.6			18.9			18.3			30
32	20.6			20.5			19.9			19.5			18.8			18.3			32
34	20.3			20.3			19.7			19.4			18.7			18.2			34
36	20			20			19.5			19.2			18.6			18.1			36
38	19.7			19.7			19.3			19.1			18.4			18			38
40	19.3	16.6		19.5			19.1			18.9			18.3			17.9			40
45	18.4	15.7		18.7	15.8		18.5			18.4			17.9			17.5			45
50	17.5	14.9		17.9	15.1		17.9			17.8			17.4			17.2			50
55	16.5	14.1		17.2	14.4		17.3	14.4		17.3	14.4		17			16.8			55
60	15.6	13.3	11.3	16.4	13.7		16.6	13.8		16.8	13.9		16.6	13.8		16.4	13.8		60
65	14.7	12.7	10.9	15.6	13.1	11	16	13.3	11	16.2	13.4		16.1	13.4		16	13.3		65
70	13.9	12.1	10.5	14.8	12.5	10.7	15.3	12.7	10.7	15.7	12.9		15.6	12.9		15.6	13		70
75	13.1	11.6	10.3	14.1	12	10.4	14.7	12.3	10.4	15.1	12.5	10.5	15.2	12.5	10.4	15.2	12.6		75
80	12.4	11.1	10	13.4	11.6	10.1	14	11.9	10.2	14.6	12.1	10.2	14.7	12.2	10.2	14.8	12.2	10.2	80
85	11.6	10.7	9.8	12.7	11.2	9.9	13.4	11.5	10	14	11.7	10.1	14.2	11.8	10.1	14.4	11.9	10	85
90	10.8	10.3	9.7	12.1	10.8	9.8	12.8	11.1	9.8	13.4	11.4	9.9	13.7	11.5	9.9	14	11.6	9.9	90
95	10.1	10	9.7	11.5	10.4	9.7	12.3	10.8	9.7	12.9	11.1	9.8	13.3	11.2	9.8	13.6	11.3	9.8	95
100	9.4	9.8	9.7	10.9	10.2	9.7	11.8	10.5	9.6	12.5	10.8	9.7	12.8	10.9	9.7	13.1	11.1	9.7	100
105	8.9	9.7		10.2	9.9	9.7	11.3	10.2	9.6	12	10.5	9.6	12.4	10.6	9.6	12.7	10.8	9.6	105
110				9.6	9.8	9.7	10.8	10	9.6	11.6	10.3	9.6	12	10.4	9.5	12.4	10.6	9.5	110
115				9.2	9.7		10.2	9.8	9.6	11.1	10	9.6	11.6	10.2	9.5	12	10.4	9.5	115
120				8.8	9.7		9.7	9.7	9.6	10.7	9.9	9.6	11.2	10	9.5	11.6	10.2	9.4	120
125							9.3	9.6	9.6	10.3	9.7	9.6	10.9	9.9	9.5	11.3	10	9.4	125
130							9	9.6		9.8	9.6	9.6	10.5	9.7	9.5	11	9.8	9.4	130
135							8.6	9.6		9.4	9.6	9.6	10.1	9.6	9.5	10.7	9.7	9.4	135
140										9.1	9.6	9.6	9.8	9.5	9.5	10.4	9.6	9.4	140
145										8.8	9.6		9.5	9.5	9.5	10.1	9.5	9.4	145
150										8.6			9.2	9.5	9.5	9.8	9.5	9.4	150
155													8.9	9.2		9.5	9.4	9.4	155
160													8.7	9.1		9.2	9.4	9.4	160
165																9	9.3	9.4	165
170																8.8	9.2		170
175																8.6	9.1		175

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Lifting capacities
Forces de levage

TNZK

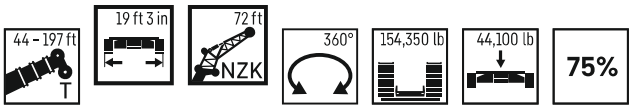


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
32	17.5			18.2															32
34	17.5			18.2															34
36	17.4			18.1															36
38	17.3			18															38
40	17.2			17.9			17.2												40
45	16.9			17.6			16.9			15.8									45
50	16.6			17.3			16.7			15.6									50
55	16.3			17			16.4			15.4			14.1			13			55
60	16			16.7			16.2			15.2			13.9			12.8			60
65	15.7	13.2		16.4	13.7		15.9			14.9			13.8			12.7			65
70	15.3	12.8		16	13.3		15.6			14.7			13.6			12.5			70
75	15	12.5		15.7	13		15.3	12.8		14.5	12.4		13.4			12.4			75
80	14.6	12.2		15.4	12.6		15	12.5		14.3	12.1		13.2	11.5		12.2			80
85	14.3	11.9	10	15	12.3	10.2	14.7	12.2	10.1	14	11.8		13	11.3		12	10.8		85
90	13.9	11.6	9.9	14.7	12	10	14.4	12	10	13.7	11.6		12.8	11.1		11.9	10.6		90
95	13.6	11.3	9.8	14.3	11.8	9.9	14.1	11.7	9.8	13.5	11.4	9.7	12.6	10.9		11.7	10.5		95
100	13.2	11.1	9.6	13.9	11.5	9.8	13.8	11.4	9.7	13.2	11.2	9.6	12.4	10.7	9.4	11.6	10.3		100
105	12.8	10.8	9.6	13.6	11.3	9.7	13.4	11.2	9.6	12.9	11	9.5	12.2	10.6	9.3	11.4	10.2	9.2	105
110	12.4	10.6	9.5	13.2	11	9.6	13.1	11	9.5	12.7	10.8	9.4	12	10.4	9.3	11.2	10	9.1	110
115	12.1	10.4	9.4	12.8	10.8	9.5	12.8	10.8	9.5	12.4	10.6	9.4	11.7	10.2	9.2	11.1	9.9	9.1	115
120	11.8	10.2	9.4	12.5	10.6	9.4	12.5	10.6	9.4	12.1	10.4	9.3	11.5	10.1	9.2	10.9	9.8	9	120
125	11.5	10.1	9.4	12.2	10.4	9.4	12.2	10.4	9.3	11.9	10.3	9.3	11.3	10	9.1	10.8	9.7	9	125
130	11.2	9.9	9.4	11.9	10.2	9.4	11.9	10.2	9.3	11.7	10.1	9.2	11.1	9.8	9.1	10.6	9.5	9	130
135	10.9	9.8	9.4	11.6	10.1	9.3	11.7	10.1	9.3	11.4	10	9.2	11	9.7	9.1	10.4	9.4	8.9	135
140	10.6	9.7	9.4	11.3	9.9	9.3	11.4	9.9	9.2	11.2	9.8	9.2	10.8	9.6	9	10.2	9.3	8.9	140
145	10.3	9.6	9.4	11	9.8	9.3	11.1	9.8	9.2	11	9.7	9.2	10.6	9.5	9	9.9	9.3	8.9	145
150	9.9	9.5	9.4	10.8	9.6	9.3	10.9	9.7	9.2	10.8	9.6	9.2	10.4	9.4	9	9.6	9.2	8.9	150
155	9.5	9.4	9.4	10.5	9.5	9.3	10.7	9.6	9.2	10.6	9.5	9.2	10.2	9.3	9	9.3	9.1	8.9	155
160	9.2	9.2	9.4	10.3	9.5	9.3	10.4	9.5	9.2	10.4	9.4	9.2	10	9.3	9	8.9	8.9	8.9	160
165	8.9	9	9.2	10	9.4	9.3	10.2	9.4	9.2	10.2	9.3	9.2	9.9	9.2	9	8.6	8.8	8.8	165
170	8.5	8.7	8.9	9.8	9.4	9.3	10	9.3	9.2	10	9.3	9.2	9.7	9.1	9	8.4	8.6	8.7	170
175	8.2	8.4	8.6	9.6	9.3	9.3	9.8	9.3	9.2	9.8	9.2	9.2	9.4	9.1	9	8.1	8.3	8.6	175
180	8	8.1	8.5	9.4	9.3	9.3	9.7	9.2	9.2	9.6	9.2	9.2	9.1	9	9	7.8	8.1	8.4	180
185	7.7	7.9		9.2	9.3	9.3	9.3	9.2	9.2	9.3	9.2	9.2	8.8	8.8	9	7.5	7.8	8.1	185
190	7.5			9	9.3	8.6	9	9.2	9.2	8.7	9.1	9.2	8.6	8.6	8.9	7.2	7.5	7.8	190
195				8.8	9.3		8.7	8.9	9.2	8.1	8.9	9.1	8.3	8.4	8.7	7	7.2	7.5	195
200				7.8			8.4	8.6	7.6	7.7	8.3	8.6	7.7	8.2	8.5	6.7	7	7.2	200
205				6.3			8.1	8.4	7.3	7.5	7.7	7.9	7.2	7.9	8.2	6.5	6.7	7	205
210							7.5	8		7.3	7.5	7.6	6.7	7.5	7.8	6.2	6.5	6.7	210
215							6.5			7	7.2	7.4	6.2	6.9	7.1	5.9	6.2	6.4	215
220							3.3			6.8	7		5.7	6.4	6.5	5.5	6	6.2	220
225										6.2	6.7		5.3	5.9	5.9	5	5.7	5.9	225
230										4.3			4.8	5.4	5.2	4.5	5.2	5.4	230
235													4.4	4.9		4.1	4.7	4.8	235
240													3.8			3.7	4.2		240
245																3.3	3.7		245
250																2.9	3.2		250

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Lifting capacities
Forces de levage

TNZK

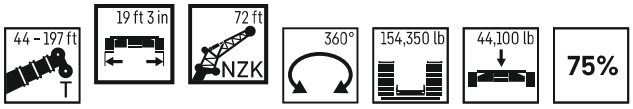


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
12	21.8																		12
13	22																		13
14	22.2																		14
15	22.2																		15
16	22.2			21.5															16
17	22.1			21.5															17
18	22.1			21.5															18
19	22			21.5			20.5												19
20	21.9			21.4			20.5												20
22	21.7			21.3			20.5			19.9									22
24	21.6			21.2			20.4			19.9									24
26	21.3			21			20.3			19.8			19						26
28	21.1			20.8			20.2			19.7			18.9						28
30	20.9			20.7			20			19.6			18.9			18.3			30
32	20.6			20.5			19.9			19.5			18.8			18.3			32
34	20.3			20.3			19.7			19.4			18.7			18.2			34
36	20			20			19.5			19.2			18.6			18.1			36
38	19.7			19.7			19.3			19.1			18.4			18			38
40	19.3	16.6		19.5			19.1			18.9			18.3			17.9			40
45	18.4	15.7		18.7	15.8		18.5			18.4			17.9			17.5			45
50	17.5	14.9		17.9	15.1		17.9			17.8			17.4			17.2			50
55	16.5	14.1		17.2	14.4		17.3	14.4		17.3	14.4		17			16.8			55
60	15.6	13.3	11.3	16.4	13.7		16.6	13.8		16.8	13.9		16.6	13.8		16.4	13.8		60
65	14.7	12.7	10.9	15.6	13.1	11	16	13.3	11	16.2	13.4		16.1	13.4		16	13.3		65
70	13.9	12.1	10.5	14.8	12.5	10.7	15.3	12.7	10.7	15.7	12.9		15.6	12.9		15.6	13		70
75	13.1	11.6	10.3	14.1	12	10.4	14.7	12.3	10.4	15.1	12.5	10.5	15.2	12.5	10.4	15.2	12.6		75
80	12.4	11.1	10	13.4	11.6	10.1	14	11.9	10.2	14.6	12.1	10.2	14.7	12.2	10.2	14.8	12.2	10.2	80
85	11.6	10.7	9.8	12.7	11.2	9.9	13.4	11.5	10	14	11.7	10.1	14.2	11.8	10.1	14.4	11.9	10	85
90	10.8	10.3	9.7	12.1	10.8	9.8	12.8	11.1	9.8	13.4	11.4	9.9	13.7	11.5	9.9	14	11.6	9.9	90
95	10.1	10	9.7	11.5	10.4	9.7	12.3	10.8	9.7	12.9	11.1	9.8	13.3	11.2	9.8	13.6	11.3	9.8	95
100	9.4	9.8	9.7	10.9	10.2	9.7	11.8	10.5	9.6	12.5	10.8	9.7	12.8	10.9	9.7	13.1	11.1	9.7	100
105	8.9	9.7		10.2	9.9	9.7	11.3	10.2	9.6	12	10.5	9.6	12.4	10.6	9.6	12.7	10.8	9.6	105
110				9.6	9.8	9.7	10.8	10	9.6	11.6	10.3	9.6	12	10.4	9.5	12.4	10.6	9.5	110
115				9.2	9.7		10.2	9.8	9.6	11.1	10	9.6	11.6	10.2	9.5	12	10.4	9.5	115
120				8.8	9.7		9.7	9.7	9.6	10.7	9.9	9.6	11.2	10	9.5	11.6	10.2	9.4	120
125							9.3	9.6	9.6	10.3	9.7	9.6	10.9	9.9	9.5	11.3	10	9.4	125
130							9	9.6		9.8	9.6	9.6	10.5	9.7	9.5	11	9.8	9.4	130
135							8.6	9.6		9.4	9.6	9.6	10.1	9.6	9.5	10.7	9.7	9.4	135
140										9.1	9.6	9.6	9.8	9.5	9.5	10.4	9.6	9.4	140
145										8.8	9.6		9.5	9.5	9.5	10.1	9.5	9.4	145
150										8.6			9.2	9.5	9.5	9.8	9.5	9.4	150
155													8.9	9.2		9.5	9.4	9.4	155
160													8.7	9.1		9.2	9.4	9.4	160
165																9	9.3	9.4	165
170																8.8	9.2		170
175																8.6	9.1		175

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Lifting capacities
Forces de levage

TNZK

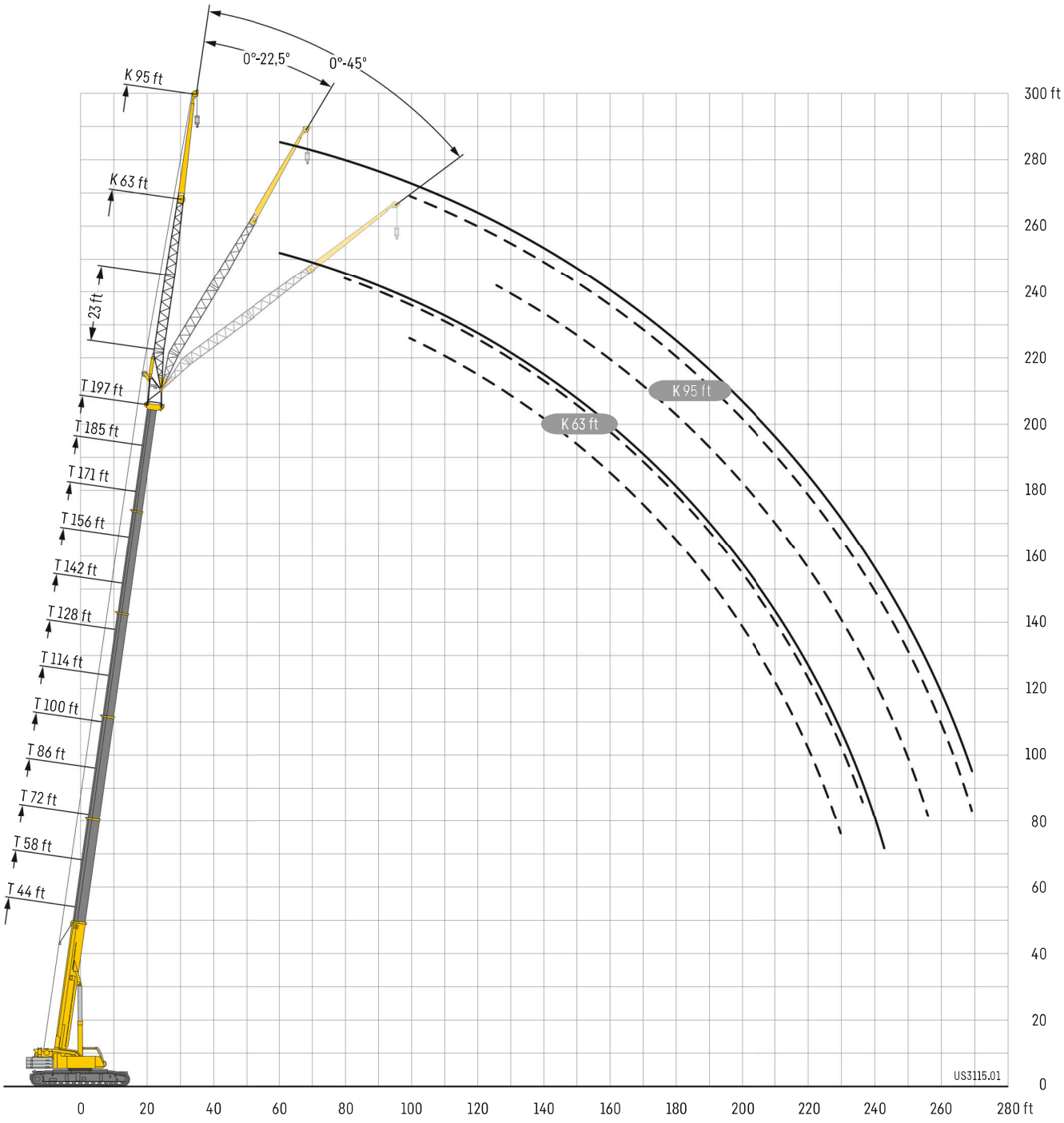


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
32	17.5			18.2															32
34	17.5			18.2															34
36	17.4			18.1															36
38	17.3			18															38
40	17.2			17.9			17.2												40
45	16.9			17.6			16.9			15.8									45
50	16.6			17.3			16.7			15.6									50
55	16.3			17			16.4			15.4			14.1			13			55
60	16			16.7			16.2			15.2			13.9			12.8			60
65	15.7	13.2		16.4	13.7		15.9			14.9			13.8			12.7			65
70	15.3	12.8		16	13.3		15.6			14.7			13.6			12.5			70
75	15	12.5		15.7	13		15.3	12.8		14.5	12.4		13.4			12.4			75
80	14.6	12.2		15.4	12.6		15	12.5		14.3	12.1		13.2	11.5		12.2			80
85	14.3	11.9	10	15	12.3	10.2	14.7	12.2	10.1	14	11.8		13	11.3		12	10.8		85
90	13.9	11.6	9.9	14.7	12	10	14.4	12	10	13.7	11.6		12.8	11.1		11.9	10.6		90
95	13.6	11.3	9.8	14.3	11.8	9.9	14.1	11.7	9.8	13.5	11.4	9.7	12.6	10.9		11.7	10.5		95
100	13.2	11.1	9.6	13.9	11.5	9.8	13.8	11.4	9.7	13.2	11.2	9.6	12.4	10.7	9.4	11.6	10.3		100
105	12.8	10.8	9.6	13.6	11.3	9.7	13.4	11.2	9.6	12.9	11	9.5	12.2	10.6	9.3	11.4	10.2	9.2	105
110	12.4	10.6	9.5	13.2	11	9.6	13.1	11	9.5	12.7	10.8	9.4	12	10.4	9.3	11.2	10	9.1	110
115	12.1	10.4	9.4	12.8	10.8	9.5	12.8	10.8	9.5	12.4	10.6	9.4	11.7	10.2	9.2	11.1	9.9	9.1	115
120	11.8	10.2	9.4	12.5	10.6	9.4	12.5	10.6	9.4	12.1	10.4	9.3	11.5	10.1	9.2	10.9	9.8	9	120
125	11.5	10.1	9.4	12.2	10.4	9.4	12.2	10.4	9.3	11.9	10.3	9.3	11.3	10	9.1	10.8	9.7	9	125
130	11.2	9.9	9.4	11.9	10.2	9.4	11.9	10.2	9.3	11.7	10.1	9.2	11.1	9.8	9.1	10.6	9.5	9	130
135	10.9	9.8	9.4	11.6	10.1	9.3	11.7	10.1	9.3	11.4	10	9.2	11	9.7	9.1	10.4	9.4	8.9	135
140	10.6	9.7	9.4	11.3	9.9	9.3	11.4	9.9	9.2	11.2	9.8	9.2	10.8	9.6	9	10.2	9.3	8.9	140
145	10.3	9.6	9.4	11	9.8	9.3	11.1	9.8	9.2	11	9.7	9.2	10.6	9.5	9	9.9	9.3	8.9	145
150	9.9	9.5	9.4	10.8	9.6	9.3	10.9	9.7	9.2	10.8	9.6	9.2	10.4	9.4	9	9.6	9.2	8.9	150
155	9.5	9.4	9.4	10.5	9.5	9.3	10.5	9.6	9.2	10.5	9.5	9.2	10.2	9.3	9	9.3	9.1	8.9	155
160	9.2	9.2	9.4	10.3	9.5	9.3	10.3	9.5	9.2	10	9.4	9.2	9.9	9.3	9	8.9	8.9	8.9	160
165	8.9	9	9.2	10	9.4	9.3	10	9.4	9.2	9.8	9.3	9.2	9.3	9.2	9	8.6	8.8	8.8	165
170	8.5	8.7	8.9	9.5	9.4	9.3	9.5	9.3	9.2	9.5	9.3	9.2	8.5	9.1	9	8.1	8.6	8.7	170
175	8.2	8.4	8.6	8.8	9.3	9.3	8.7	9.3	9.2	9	9.1	9.1	7.8	9.1	9	7.5	8.3	8.6	175
180	8	8.1	8.5	8.6	9	9.2	8.4	9	9.2	8.3	9	9.1	7.1	8.5	9	6.8	8.1	8.4	180
185	7.7	7.9		8.3	8.4	8.7	8.1	8.4	8.8	7.6	8.7	9.1	6.4	7.8	8.6	6.1	7.6	8.1	185
190	7.5			8.1	8.2	8.6	7.8	8	8.2	7	8	8.6	5.7	7	7.8	5.5	6.9	7.6	190
195				7.8	7.9		7.4	7.7	7.9	6.4	7.4	7.8	5.2	6.4	7	4.9	6.2	7	195
200				7.6			6.8	7.4	7.5	5.8	6.7	7	4.6	5.7	6.2	4.3	5.6	6.2	200
205				6.3			6.3	6.8	6.7	5.3	6.1	6.3	4.1	5.1	5.5	3.8	4.9	5.5	205
210							5.8	6.2		4.8	5.5	5.6	3.6	4.5	4.9	3.3	4.3	4.9	210
215							5.3			4.3	4.9	4.9	3.1	3.9	4.2	2.8	3.8	4.2	215
220							3.3			3.9	4.4		2.6	3.4	3.5	2.3	3.3	3.6	220
225										3.5	3.8		2.2	2.9	2.9	1.9	2.8	3	225
230										3.1			1.8	2.4	2.2	1.4	2.3	2.4	230
235													1.4	1.9			1.8	1.8	235

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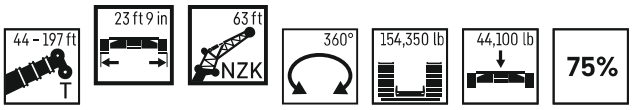
Lifting heights
Hauteurs de levage

TNZK



Lifting capacities
Forces de levage

TNZK

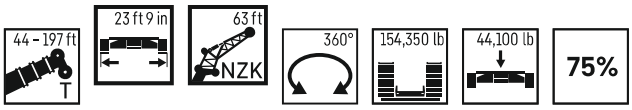


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
14	43.7																		14
15	43.4			40.7															15
16	43			40.5															16
17	42.7			40.2			36.6												17
18	42.2			40			36.5												18
19	41.8			39.7			36.3												19
20	41.3			39.5			36.2			34.1									20
22	40.3			38.9			35.8			33.9									22
24	39.2			38.3			35.5			33.6			30.9						24
26	38.1			37.5			35.1			33.4			30.7						26
28	37			36.8			34.6			33.1			30.6			29			28
30	35.9			35.9			34.1			32.8			30.4			28.9			30
32	34.8			35.1			33.6			32.5			30.2			28.7			32
34	33.6			34.2			33			32.1			29.9			28.5			34
36	32.4	23.8		33.3			32.4			31.7			29.7			28.3			36
38	31.1	23		32.4			31.7			31.1			29.4			28.1			38
40	29.7	22.2		31.4	22.6		30.9			30.6			29			27.8			40
45	26.3	20.6		28.8	21.1		29.1	21		29.1	21.1		28			27.1			45
50	23	19.1		26.1	19.7		27.1	19.8		27.6	20		26.9	19.7		26.3			50
55	20.6	17.8	15.7	23.4	18.5	15.9	25	18.8		26	19		25.6	18.9		25.4	18.8		55
60	18.5	16.7	15	21.1	17.5	15.2	23	17.8	15.2	24.4	18.1		24.4	18.1		24.4	18.1		60
65	16.7	15.7	14.4	19.2	16.5	14.7	21	16.9	14.7	22.7	17.3	14.8	23.1	17.3	14.7	23.3	17.4		65
70	15.2	14.9	13.8	17.6	15.7	14.2	19.3	16.1	14.3	21.1	16.5	14.4	21.8	16.6	14.3	22.2	16.7		70
75	14	14.1	13.4	16.2	15	13.7	17.9	15.4	13.9	19.5	15.9	14	20.5	16	14	21.2	16.2	14	75
80	12.8	13.4	13.1	14.9	14.3	13.4	16.6	14.8	13.5	18.2	15.3	13.7	19.2	15.4	13.7	20.1	15.6	13.7	80
85	11.8	12.9	12.9	13.8	13.7	13.1	15.4	14.2	13.2	17	14.7	13.4	18	14.9	13.4	19.1	15.1	13.5	85
90	10.9	12.4	12.9	12.8	13.1	12.9	14.4	13.7	13	15.9	14.2	13.1	17	14.4	13.2	18	14.7	13.3	90
95	10.1	12		11.9	12.7	12.8	13.5	13.2	12.8	15	13.7	12.9	16	14	13	17.1	14.2	13	95
100				11.2	12.3	12.8	12.7	12.8	12.7	14.1	13.3	12.8	15.1	13.6	12.8	16.2	13.8	12.9	100
105				10.5	12		11.9	12.5	12.7	13.3	12.9	12.7	14.3	13.2	12.7	15.3	13.4	12.7	105
110				9.9	11.8		11.3	12.2	12.7	12.6	12.6	12.6	13.6	12.9	12.6	14.6	13.1	12.6	110
115							10.7	11.9		11.9	12.3	12.6	12.9	12.6	12.5	13.9	12.8	12.5	115
120							10.1	11.7		11.3	12.1	12.6	12.3	12.2	12.4	13.3	12.6	12.4	120
125							9.7			10.8	11.8	12.6	11.8	11.9	12.1	12.7	12.3	12.4	125
130										10.3	11.6		11.3	11.4	11.7	12.2	12	12.3	130
135										9.9	11.6		10.8	10.9	11.3	11.7	11.7	12	135
140										9.6			10.4	10.5	10.9	11.2	11.4	11.6	140
145													10	10.2		10.8	11	11.3	145
150													9.7	9.9		10.4	10.6	11	150
155													9.5			10.1	10.3		155
160																9.8	10		160
165																9.6			165
170																5.4			170

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Lifting capacities
Forces de levage

TNZK

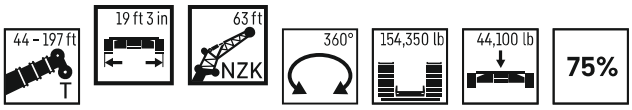


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
34	26.5			28.1															34
36	26.3			27.9															36
38	26.1			27.7															38
40	26			27.5			25.5												40
45	25.4			26.9			25			22.2									45
50	24.8			26.3			24.6			21.9									50
55	24.2			25.7			24.1			21.6			18.4						55
60	23.5	17.8		25.1	18.7		23.6			21.2			18.1			15.7			60
65	22.7	17.2		24.4	18.1		23.1			20.9			17.8			15.4			65
70	21.8	16.6		23.6	17.4		22.6	17.2		20.5			17.6			15.2			70
75	21	16.1	14	22.8	16.9		22	16.7		20.1	16		17.3			15			75
80	20.2	15.6	13.7	21.9	16.3	14	21.3	16.2	13.9	19.8	15.6		17.1	14.8		14.8	13.8		80
85	19.4	15.1	13.4	21.1	15.9	13.7	20.6	15.7	13.6	19.3	15.2	13.3	16.8	14.4		14.6	13.7		85
90	18.5	14.7	13.2	20.2	15.4	13.5	19.9	15.3	13.4	18.8	14.8	13.1	16.7	14.1		14.3	13.5		90
95	17.6	14.3	13	19.4	15	13.3	19.3	14.9	13.2	18.3	14.5	13	16.6	13.8	12.6	14.3	13.2		95
100	16.7	13.9	12.8	18.6	14.6	13.1	18.6	14.5	13	17.8	14.1	12.8	16.3	13.6	12.4	14.2	13	12.1	100
105	15.9	13.6	12.7	17.8	14.2	12.9	18	14.2	12.8	17.3	13.8	12.6	16	13.3	12.3	14	12.8	12	105
110	15.1	13.2	12.6	17	13.8	12.8	17.3	13.8	12.7	16.8	13.5	12.5	15.7	13.1	12.2	13.7	12.6	11.9	110
115	14.3	12.9	12.5	16.3	13.5	12.6	16.7	13.5	12.6	16.3	13.3	12.4	15.3	12.8	12.1	13.4	12.4	11.9	115
120	13.6	12.7	12.4	15.6	13.2	12.5	16	13.2	12.4	15.8	13	12.3	14.9	12.6	12	13	12.1	11.8	120
125	12.9	12.4	12.3	14.9	12.9	12.4	15.4	13	12.3	15.3	12.7	12.2	14.4	12.4	12	12.5	11.9	11.7	125
130	12.3	12.1	12.3	14.3	12.7	12.3	14.8	12.7	12.3	14.8	12.5	12.1	13.9	12.2	11.9	11.9	11.7	11.5	130
135	11.7	11.6	11.9	13.7	12.4	12.3	14.3	12.5	12.2	14.3	12.3	12.1	13.4	12	11.8	11.4	11.4	11.2	135
140	11.1	11.2	11.5	13.1	12.2	12.3	13.7	12.3	12.2	13.9	12.1	12	12.8	11.8	11.8	10.9	11	10.9	140
145	10.6	10.6	11	12.7	12	12.3	13.2	12.1	12.1	13.4	11.9	12	12.3	11.6	11.7	10.5	10.6	10.6	145
150	10.1	10.2	10.5	12.2	11.8	12.3	12.8	11.9	12.1	13	11.7	12	11.8	11.4	11.5	10	10.2	10.3	150
155	9.7	9.8	10.1	11.8	11.6	12.3	12.3	11.7	12.1	12.5	11.6	12	11.3	11.2	11.3	9.5	9.8	10	155
160	9.3	9.4	9.7	11.4	11.5	12.3	11.9	11.5	12.1	12.1	11.4	11.9	10.9	10.9	11	9.2	9.4	9.7	160
165	9	9.1	9.4	11	11.3	12.3	11.5	11.4	12.1	11.6	11.2	11.7	10.4	10.5	10.7	8.8	9.1	9.4	165
170	8.6	8.8		10.6	11.2	12.3	10.9	11.2	12.1	10.9	11.1	11.5	10.1	10.1	10.4	8.5	8.7	9.1	170
175	8.4	8.5		10.3	11.1	12.1	10.2	10.9	11.8	10.1	10.8	11.2	9.7	9.8	10.1	8.1	8.4	8.8	175
180	8.1			10.1	11	11.4	9.8	10.2	10.7	9.4	10.4	10.8	9.3	9.5	9.7	7.8	8.1	8.4	180
185				9.8	10.4		9.5	9.6	9.9	8.7	9.6	10.2	8.9	9.2	9.4	7.6	7.8	8.1	185
190				8.9	9.6		9.1	9.3	9.5	8.4	8.9	9.4	8.4	8.9	9.1	7.3	7.5	7.8	190
195				7.7	8.4		8.7	9		8.1	8.3	8.6	7.8	8.6	8.8	7	7.2	7.5	195
200							8.1	8.5		7.8	8	8.2	7.2	7.9	8.4	6.7	7	7.2	200
205							7	7.1		7.6	7.7	7.9	6.7	7.3	7.7	6.4	6.7	7	205
210							4.7			7.3	7.5		6.2	6.8	7.1	5.9	6.4	6.7	210
215										6.8			5.7	6.2	6.4	5.4	6.1	6.4	215
220										5.2			5.2	5.7	5.8	4.9	5.6	5.9	220
225													4.8	5.2	5.1	4.5	5.1	5.3	225
230													4.3	4.7		4	4.5	4.7	230
235													2.4			3.6	4		235
240																3.1	3.5		240
245																2.1			245

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Lifting capacities
Forces de levage

TNZK

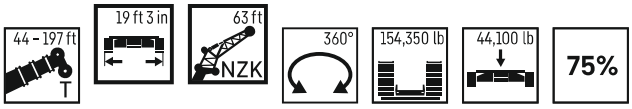


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
14	43.7																		14
15	43.4			40.7															15
16	43			40.5															16
17	42.7			40.2			36.6												17
18	42.2			40			36.5												18
19	41.8			39.7			36.3												19
20	41.3			39.5			36.2			34.1									20
22	40.3			38.9			35.8			33.9									22
24	39.2			38.3			35.5			33.6			30.9						24
26	38.1			37.5			35.1			33.4			30.7						26
28	37			36.8			34.6			33.1			30.6			29			28
30	35.9			35.9			34.1			32.8			30.4			28.9			30
32	34.8			35.1			33.6			32.5			30.2			28.7			32
34	33.6			34.2			33			32.1			29.9			28.5			34
36	32.4	23.8		33.3			32.4			31.7			29.7			28.3			36
38	31.1	23		32.4			31.7			31.1			29.4			28.1			38
40	29.7	22.2		31.4	22.6		30.9			30.6			29			27.8			40
45	26.3	20.6		28.8	21.1		29.1	21		29.1	21.1		28			27.1			45
50	23	19.1		26.1	19.7		27.1	19.8		27.6	20		26.9	19.7		26.3			50
55	20.6	17.8	15.7	23.4	18.5	15.9	25	18.8		26	19		25.6	18.9		25.4	18.8		55
60	18.5	16.7	15	21.1	17.5	15.2	23	17.8	15.2	24.4	18.1		24.4	18.1		24.4	18.1		60
65	16.7	15.7	14.4	19.2	16.5	14.7	21	16.9	14.7	22.7	17.3	14.8	23.1	17.3	14.7	23.3	17.4		65
70	15.2	14.9	13.8	17.6	15.7	14.2	19.3	16.1	14.3	21.1	16.5	14.4	21.8	16.6	14.3	22.2	16.7		70
75	14	14.1	13.4	16.2	15	13.7	17.9	15.4	13.9	19.5	15.9	14	20.5	16	14	21.2	16.2	14	75
80	12.8	13.4	13.1	14.9	14.3	13.4	16.6	14.8	13.5	18.2	15.3	13.7	19.2	15.4	13.7	20.1	15.6	13.7	80
85	11.8	12.9	12.9	13.8	13.7	13.1	15.4	14.2	13.2	17	14.7	13.4	18	14.9	13.4	19.1	15.1	13.5	85
90	10.9	12.4	12.9	12.8	13.1	12.9	14.4	13.7	13	15.9	14.2	13.1	17	14.4	13.2	18	14.7	13.3	90
95	10.1	12		11.9	12.7	12.8	13.5	13.2	12.8	15	13.7	12.9	16	14	13	17.1	14.2	13	95
100				11.2	12.3	12.8	12.7	12.8	12.7	14.1	13.3	12.8	15.1	13.6	12.8	16.2	13.8	12.9	100
105				10.5	12		11.9	12.5	12.7	13.3	12.9	12.7	14.3	13.2	12.7	15.3	13.4	12.7	105
110				9.9	11.8		11.3	12.2	12.7	12.6	12.6	12.6	13.6	12.9	12.6	14.6	13.1	12.6	110
115							10.7	11.9		11.9	12.3	12.6	12.9	12.6	12.5	13.9	12.8	12.5	115
120							10.1	11.7		11.3	12.1	12.6	12.3	12.2	12.4	13.3	12.6	12.4	120
125							9.7			10.8	11.8	12.6	11.8	11.9	12.1	12.7	12.3	12.4	125
130										10.3	11.6		11.3	11.4	11.7	12.2	12	12.3	130
135										9.9	11.6		10.8	10.9	11.3	11.7	11.7	12	135
140										9.6			10.4	10.5	10.9	11.2	11.4	11.6	140
145													10	10.2		10.8	11	11.3	145
150													9.7	9.9		10.4	10.6	11	150
155													9.5			10.1	10.3		155
160																9.8	10		160
165																9.6			165
170																5.4			170

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Lifting capacities
Forces de levage

TNZK

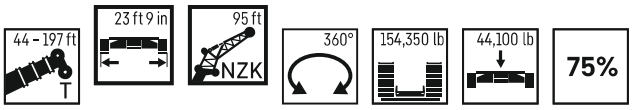


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
34	26.5			28.1															34
36	26.3			27.9															36
38	26.1			27.7															38
40	26			27.5			25.5												40
45	25.4			26.9			25			22.2									45
50	24.8			26.3			24.6			21.9									50
55	24.2			25.7			24.1			21.6			18.4						55
60	23.5	17.8		25.1	18.7		23.6			21.2			18.1			15.7			60
65	22.7	17.2		24.4	18.1		23.1			20.9			17.8			15.4			65
70	21.8	16.6		23.6	17.4		22.6	17.2		20.5			17.6			15.2			70
75	21	16.1	14	22.8	16.9		22	16.7		20.1	16		17.3			15			75
80	20.2	15.6	13.7	21.9	16.3	14	21.3	16.2	13.9	19.8	15.6		17.1	14.8		14.8	13.8		80
85	19.4	15.1	13.4	21.1	15.9	13.7	20.6	15.7	13.6	19.3	15.2	13.3	16.8	14.4		14.6	13.7		85
90	18.5	14.7	13.2	20.2	15.4	13.5	19.9	15.3	13.4	18.8	14.8	13.1	16.7	14.1		14.3	13.5		90
95	17.6	14.3	13	19.4	15	13.3	19.3	14.9	13.2	18.3	14.5	13	16.6	13.8	12.6	14.3	13.2		95
100	16.7	13.9	12.8	18.6	14.6	13.1	18.6	14.5	13	17.8	14.1	12.8	16.3	13.6	12.4	14.2	13	12.1	100
105	15.9	13.6	12.7	17.8	14.2	12.9	18	14.2	12.8	17.3	13.8	12.6	16	13.3	12.3	14	12.8	12	105
110	15.1	13.2	12.6	17	13.8	12.8	17.3	13.8	12.7	16.8	13.5	12.5	15.7	13.1	12.2	13.7	12.6	11.9	110
115	14.3	12.9	12.5	16.3	13.5	12.6	16.7	13.5	12.6	16.3	13.3	12.4	15.3	12.8	12.1	13.4	12.4	11.9	115
120	13.6	12.7	12.4	15.6	13.2	12.5	16	13.2	12.4	15.8	13	12.3	14.9	12.6	12	13	12.1	11.8	120
125	12.9	12.4	12.3	14.9	12.9	12.4	15.4	13	12.3	15.3	12.7	12.2	14.4	12.4	12	12.5	11.9	11.7	125
130	12.3	12.1	12.3	14.3	12.7	12.3	14.8	12.7	12.3	14.8	12.5	12.1	13.9	12.2	11.9	11.9	11.7	11.5	130
135	11.7	11.6	11.9	13.7	12.4	12.3	14.1	12.5	12.2	14.2	12.3	12.1	13.4	12	11.8	11.4	11.4	11.2	135
140	11.1	11.2	11.5	13.1	12.2	12.3	13.4	12.3	12.2	13.2	12.1	12	12.8	11.8	11.8	10.9	11	10.9	140
145	10.6	10.6	11	12.7	12	12.3	13	12.1	12.1	12.1	11.9	12	12.3	11.6	11.7	10.5	10.6	10.6	145
150	10.1	10.2	10.5	12.2	11.8	12.3	12.3	11.9	12.1	11.5	11.7	12	11.3	11.4	11.5	10	10.2	10.3	150
155	9.7	9.8	10.1	11.3	11.6	12.3	11.3	11.6	12.1	11	11.4	12	10.4	11.2	11.3	9.5	9.8	10	155
160	9.3	9.4	9.7	10.4	11.4	12.1	10.4	11.3	12	10.6	10.7	11.7	9.5	10.9	11	9.1	9.4	9.7	160
165	9	9.1	9.4	9.7	10.6	11.2	9.6	10.8	11.6	9.9	10.3	10.8	8.6	10.1	10.7	8.3	9.1	9.4	165
170	8.6	8.8		9.4	9.7	10.2	9.1	9.9	10.6	9.1	9.9	10.2	7.8	9.2	10.3	7.6	8.7	9.1	170
175	8.4	8.5		9.1	9.1	9.4	8.7	9.1	9.7	8.3	9.4	9.8	7.1	8.4	9.4	6.8	8.2	8.8	175
180	8.1			8.8	8.9	9.2	8.4	8.6	8.9	7.6	8.7	9.4	6.4	7.6	8.5	6.1	7.4	8.3	180
185				8.5	8.6		8	8.3	8.5	7	7.9	8.5	5.7	6.9	7.7	5.5	6.7	7.7	185
190				8.3	8.4		7.4	7.9	8.2	6.4	7.2	7.7	5.1	6.2	6.9	4.8	6	6.9	190
195				7.7	8.2		6.8	7.4		5.8	6.6	6.9	4.5	5.5	6.1	4.2	5.3	6.1	195
200							6.3	6.7		5.2	5.9	6.2	4	4.9	5.4	3.7	4.7	5.4	200
205							5.8	6.1		4.7	5.3	5.4	3.5	4.3	4.7	3.2	4.1	4.7	205
210							4.7			4.3	4.7		3	3.7	4	2.7	3.5	4.1	210
215										3.8			2.5	3.1	3.4	2.2	3	3.4	215
220										3.4			2.1	2.6	2.7	1.7	2.5	2.8	220
225													1.7	2.1	2		2	2.2	225
230														1.7			1.4	1.6	230

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Lifting capacities
Forces de levage

TNZK



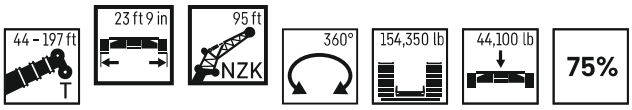
	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
19	17.3			16.6															19
20	17.3			16.6															20
22	17.2			16.6			15.7												22
24	17.2			16.6			15.7												24
26	17.1			16.6			15.7			15.1									26
28	17			16.5			15.7			15.1			14.3						28
30	16.9			16.4			15.6			15.1			14.3						30
32	16.8			16.4			15.6			15			14.2			13.7			32
34	16.7			16.3			15.5			15			14.2			13.7			34
36	16.5			16.2			15.4			14.9			14.1			13.6			36
38	16.3			16			15.3			14.8			14.1			13.6			38
40	16.1			15.8			15.2			14.8			14			13.5			40
45	15.3			15.3			14.8			14.5			13.9			13.4			45
50	14.5			14.6			14.3			14.1			13.6			13.2			50
55	13.7	11.2		14			13.8			13.7			13.3			13			55
60	12.8	10.5		13.2	10.5		13.2			13.2			12.9			12.7			60
65	12	9.8		12.5	10		12.6	9.9		12.7	9.9		12.4			12.3			65
70	11.2	9.3		11.8	9.5		12	9.5		12.2	9.5		12			11.9			70
75	10.4	8.9		11.1	9.1		11.4	9.1		11.7	9.2		11.6	9.1		11.6	9.1		75
80	9.8	8.4	7.3	10.4	8.7		10.8	8.7		11.1	8.8		11.1	8.8		11.2	8.8		80
85	9.2	8	7	9.8	8.3	7	10.2	8.4	7	10.6	8.5		10.7	8.5		10.8	8.6		85
90	8.6	7.7	6.7	9.3	8	6.8	9.8	8.1	6.8	10.1	8.2		10.3	8.3		10.4	8.3		90
95	8.1	7.4	6.6	8.8	7.6	6.6	9.3	7.8	6.7	9.7	8	6.7	9.8	8	6.7	10	8		95
100	7.6	7.1	6.4	8.4	7.4	6.5	8.9	7.5	6.5	9.3	7.7	6.5	9.4	7.8	6.5	9.6	7.8	6.5	100
105	7.1	6.8	6.2	7.9	7.1	6.3	8.5	7.3	6.4	8.9	7.4	6.4	9.1	7.5	6.4	9.3	7.6	6.4	105
110	6.7	6.6	6.1	7.5	6.9	6.2	8.1	7.1	6.2	8.5	7.2	6.3	8.8	7.3	6.3	9	7.4	6.3	110
115	6.3	6.4	6	7.1	6.7	6.1	7.7	6.9	6.1	8.2	7	6.2	8.4	7.1	6.2	8.7	7.2	6.2	115
120	6	6.2	6	6.7	6.5	6	7.4	6.7	6	7.9	6.9	6.1	8.2	7	6.1	8.4	7	6.1	120
125	5.7	6.1		6.4	6.3	6	7	6.5	6	7.6	6.7	6	7.9	6.8	6	8.2	6.9	6	125
130	5.4	6.1		6.1	6.1	6	6.7	6.3	5.9	7.3	6.5	6	7.7	6.6	5.9	7.9	6.7	6	130
135				5.8	6	6	6.4	6.2	5.9	7	6.4	5.9	7.4	6.5	5.9	7.7	6.6	5.9	135
140				5.6	6		6.1	6.1	5.9	6.7	6.2	5.9	7.1	6.3	5.8	7.4	6.5	5.9	140
145				5.4			5.9	6	5.9	6.4	6.1	5.9	6.9	6.2	5.8	7.2	6.3	5.8	145
150							5.7	6		6.2	6	5.9	6.6	6.1	5.8	7	6.2	5.8	150
155							5.5			6	5.9	5.9	6.4	6	5.8	6.8	6.1	5.8	155
160										5.8	5.9	5.9	6.2	5.9	5.8	6.6	6	5.8	160
165										5.6	5.9		6	5.9	5.8	6.4	5.9	5.8	165
170										5.4			5.8	5.8	5.8	6.2	5.9	5.8	170
175													5.6	5.8	5.8	6	5.8	5.8	175
180													5.5			5.8	5.8	5.8	180
185													5.4			5.7	5.8	5.8	185
190																5.5	5.8		190
195																5.4	5.8		195
200																5.3			200

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GUAY

Lifting capacities
Forces de levage

TNZK

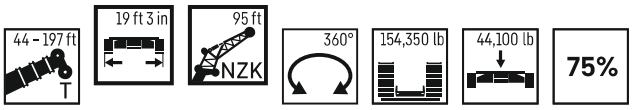


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
36	12.9																		36
38	12.9			13.5															38
40	12.8			13.4															40
45	12.7			13.3			12.6												45
50	12.6			13.2			12.5												50
55	12.4			13			12.4			11.4			10.2						55
60	12.2			12.9			12.3			11.3			10.1			9.2			60
65	11.9			12.6			12.1			11.2			10			9.1			65
70	11.6			12.3			11.9			11			9.9			9			70
75	11.3			12			11.6			10.8			9.8			8.9			75
80	11	8.7		11.7	9		11.3			10.6			9.7			8.8			80
85	10.6	8.5		11.3	8.8		11	8.7		10.4			9.5			8.7			85
90	10.3	8.3		11	8.6		10.8	8.5		10.2			9.3			8.7			90
95	9.9	8		10.6	8.3		10.5	8.3		9.9	8		9.2	7.7		8.6			95
100	9.6	7.8		10.3	8.1		10.1	8.1		9.6	7.8		9	7.5		8.4	7.3		100
105	9.3	7.6	6.4	10	7.9	6.5	9.8	7.8	6.4	9.4	7.7		8.8	7.4		8.3	7.1		105
110	9	7.4	6.3	9.6	7.7	6.4	9.6	7.7	6.3	9.2	7.5		8.7	7.2		8.2	7		110
115	8.7	7.2	6.2	9.3	7.5	6.3	9.3	7.5	6.2	8.9	7.3	6.2	8.5	7.1		8.1	6.9		115
120	8.5	7.1	6.1	9.1	7.3	6.2	9	7.3	6.2	8.7	7.2	6.1	8.3	7	6	7.9	6.8		120
125	8.3	6.9	6	8.8	7.2	6.1	8.8	7.2	6.1	8.5	7	6	8.2	6.8	5.9	7.8	6.6	5.8	125
130	8	6.8	5.9	8.5	7	6	8.5	7	6	8.3	6.9	5.9	8	6.7	5.8	7.6	6.5	5.7	130
135	7.8	6.6	5.9	8.3	6.9	6	8.3	6.9	5.9	8.2	6.8	5.8	7.8	6.6	5.8	7.5	6.4	5.7	135
140	7.6	6.5	5.8	8.1	6.7	5.9	8.1	6.7	5.9	8	6.7	5.8	7.6	6.5	5.7	7.4	6.3	5.6	140
145	7.4	6.4	5.8	7.8	6.6	5.8	7.9	6.6	5.8	7.8	6.5	5.8	7.5	6.4	5.7	7.3	6.2	5.6	145
150	7.2	6.3	5.8	7.6	6.5	5.8	7.7	6.5	5.8	7.6	6.4	5.7	7.4	6.3	5.6	7.1	6.2	5.5	150
155	7	6.2	5.7	7.4	6.4	5.8	7.5	6.4	5.7	7.4	6.3	5.7	7.2	6.2	5.6	7	6.1	5.5	155
160	6.8	6.1	5.7	7.2	6.2	5.7	7.3	6.3	5.7	7.3	6.2	5.6	7.1	6.1	5.5	6.9	6	5.5	160
165	6.7	6	5.7	7	6.2	5.7	7.2	6.2	5.7	7.1	6.1	5.6	6.9	6	5.5	6.8	5.9	5.5	165
170	6.5	5.9	5.7	6.9	6.1	5.7	7	6.1	5.6	7	6.1	5.6	6.8	6	5.5	6.6	5.8	5.4	170
175	6.3	5.8	5.7	6.7	6	5.7	6.8	6	5.6	6.8	6	5.6	6.7	5.9	5.5	6.5	5.8	5.4	175
180	6.1	5.8	5.7	6.6	5.9	5.7	6.7	5.9	5.6	6.7	5.9	5.6	6.6	5.8	5.5	6.4	5.7	5.4	180
185	5.9	5.8	5.7	6.4	5.8	5.7	6.6	5.9	5.6	6.5	5.8	5.6	6.4	5.7	5.5	6.3	5.7	5.4	185
190	5.8	5.7	5.7	6.2	5.8	5.7	6.4	5.8	5.6	6.4	5.8	5.6	6.3	5.7	5.5	6.2	5.6	5.4	190
195	5.7	5.7	5.7	6.1	5.7	5.7	6.3	5.7	5.6	6.3	5.7	5.6	6.2	5.6	5.5	6.1	5.6	5.4	195
200	5.5	5.7	5.7	5.9	5.7	5.7	6.1	5.7	5.6	6.2	5.7	5.6	6.1	5.6	5.5	5.9	5.5	5.4	200
205	5.4	5.7		5.8	5.7	5.7	6	5.7	5.6	6.1	5.6	5.6	6	5.6	5.5	5.7	5.5	5.4	205
210	5.3			5.6	5.7	5.7	5.9	5.6	5.6	6	5.6	5.6	6	5.5	5.5	5.5	5.4	5.4	210
215	4.9			5.5	5.7		5.8	5.6	5.6	5.9	5.6	5.6	5.9	5.5	5.5	5.3	5.4	5.4	215
220				5.4	5.7		5.7	5.6	5.6	5.7	5.6	5.6	5.7	5.5	5.5	5.1	5.3	5.4	220
225				5.3			5.5	5.6	5.6	5.6	5.5	5.6	5.5	5.5	5.5	4.9	5.1	5.4	225
230							5.4	5.6		5.5	5.5	5.6	5	5.5	5.5	4.7	5	5.2	230
235							5.1	5.6		5.4	5.5	5.6	4.6	5.4	5.5	4.3	4.8	5	235
240							3.9			5.2	5.4	5.6	4.2	5	5.2	3.8	4.6	4.8	240
245										4.9	5.3		3.8	4.6	4.6	3.4	4.4	4.6	245
250										3.9			3.4	4.1	3.9	3	3.9	4.1	250
255										1.4			3	3.6		2.6	3.4	3.5	255
260													2.6	3.1		2.3	3	2.9	260
265																1.9	2.5		265
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Lifting capacities
Forces de levage

TNZK

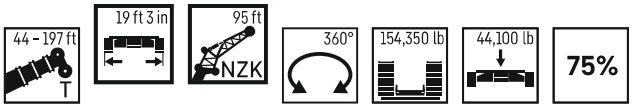


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
19	17.3			16.6															19
20	17.3			16.6															20
22	17.2			16.6			15.7												22
24	17.2			16.6			15.7												24
26	17.1			16.6			15.7			15.1									26
28	17			16.5			15.7			15.1			14.3						28
30	16.9			16.4			15.6			15.1			14.3						30
32	16.8			16.4			15.6			15			14.2			13.7			32
34	16.7			16.3			15.5			15			14.2			13.7			34
36	16.5			16.2			15.4			14.9			14.1			13.6			36
38	16.3			16			15.3			14.8			14.1			13.6			38
40	16.1			15.8			15.2			14.8			14			13.5			40
45	15.3			15.3			14.8			14.5			13.9			13.4			45
50	14.5			14.6			14.3			14.1			13.6			13.2			50
55	13.7	11.2		14			13.8			13.7			13.3			13			55
60	12.8	10.5		13.2	10.5		13.2			13.2			12.9			12.7			60
65	12	9.8		12.5	10		12.6	9.9		12.7	9.9		12.4			12.3			65
70	11.2	9.3		11.8	9.5		12	9.5		12.2	9.5		12			11.9			70
75	10.4	8.9		11.1	9.1		11.4	9.1		11.7	9.2		11.6	9.1		11.6	9.1		75
80	9.8	8.4	7.3	10.4	8.7		10.8	8.7		11.1	8.8		11.1	8.8		11.2	8.8		80
85	9.2	8	7	9.8	8.3	7	10.2	8.4	7	10.6	8.5		10.7	8.5		10.8	8.6		85
90	8.6	7.7	6.7	9.3	8	6.8	9.8	8.1	6.8	10.1	8.2		10.3	8.3		10.4	8.3		90
95	8.1	7.4	6.6	8.8	7.6	6.6	9.3	7.8	6.7	9.7	8	6.7	9.8	8	6.7	10	8		95
100	7.6	7.1	6.4	8.4	7.4	6.5	8.9	7.5	6.5	9.3	7.7	6.5	9.4	7.8	6.5	9.6	7.8	6.5	100
105	7.1	6.8	6.2	7.9	7.1	6.3	8.5	7.3	6.4	8.9	7.4	6.4	9.1	7.5	6.4	9.3	7.6	6.4	105
110	6.7	6.6	6.1	7.5	6.9	6.2	8.1	7.1	6.2	8.5	7.2	6.3	8.8	7.3	6.3	9	7.4	6.3	110
115	6.3	6.4	6	7.1	6.7	6.1	7.7	6.9	6.1	8.2	7	6.2	8.4	7.1	6.2	8.7	7.2	6.2	115
120	6	6.2	6	6.7	6.5	6	7.4	6.7	6	7.9	6.9	6.1	8.2	7	6.1	8.4	7	6.1	120
125	5.7	6.1		6.4	6.3	6	7	6.5	6	7.6	6.7	6	7.9	6.8	6	8.2	6.9	6	125
130	5.4	6.1		6.1	6.1	6	6.7	6.3	5.9	7.3	6.5	6	7.7	6.6	5.9	7.9	6.7	6	130
135				5.8	6	6	6.4	6.2	5.9	7	6.4	5.9	7.4	6.5	5.9	7.7	6.6	5.9	135
140				5.6	6		6.1	6.1	5.9	6.7	6.2	5.9	7.1	6.3	5.8	7.4	6.5	5.9	140
145				5.4			5.9	6	5.9	6.4	6.1	5.9	6.9	6.2	5.8	7.2	6.3	5.8	145
150							5.7	6		6.2	6	5.9	6.6	6.1	5.8	7	6.2	5.8	150
155							5.5			6	5.9	5.9	6.4	6	5.8	6.8	6.1	5.8	155
160										5.8	5.9	5.9	6.2	5.9	5.8	6.6	6	5.8	160
165										5.6	5.9		6	5.9	5.8	6.4	5.9	5.8	165
170										5.4			5.8	5.8	5.8	6.2	5.9	5.8	170
175													5.6	5.8	5.8	6	5.8	5.8	175
180													5.5			5.8	5.8	5.8	180
185													5.4			5.7	5.8	5.8	185
190																5.5	5.8		190
195																5.4	5.8		195
200																5.3			200

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Lifting capacities
Forces de levage

TNZK

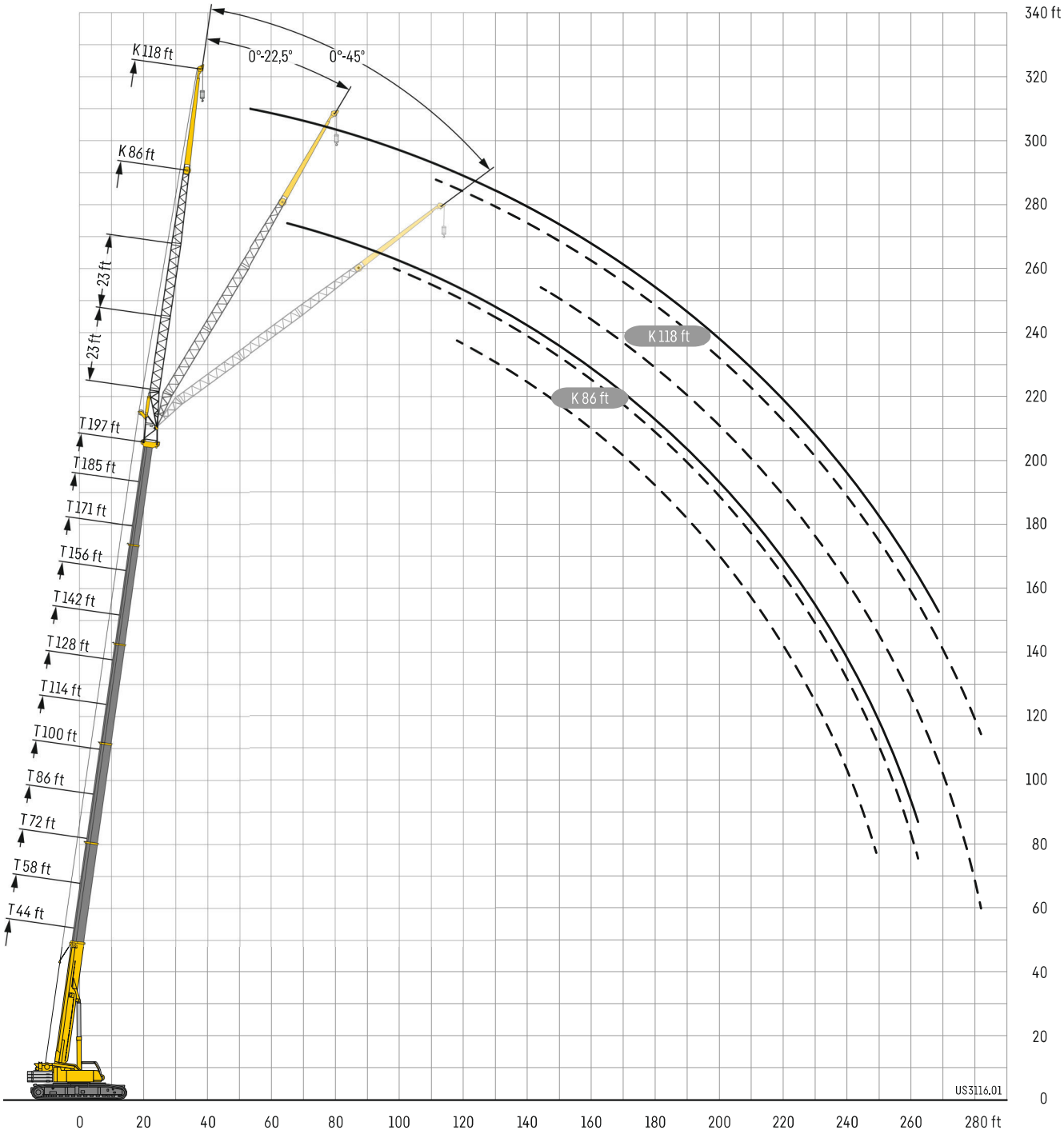


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
36	12.9																		36
38	12.9			13.5															38
40	12.8			13.4															40
45	12.7			13.3			12.6												45
50	12.6			13.2			12.5												50
55	12.4			13			12.4			11.4			10.2						55
60	12.2			12.9			12.3			11.3			10.1			9.2			60
65	11.9			12.6			12.1			11.2			10			9.1			65
70	11.6			12.3			11.9			11			9.9			9			70
75	11.3			12			11.6			10.8			9.8			8.9			75
80	11	8.7		11.7	9		11.3			10.6			9.7			8.8			80
85	10.6	8.5		11.3	8.8		11	8.7		10.4			9.5			8.7			85
90	10.3	8.3		11	8.6		10.8	8.5		10.2			9.3			8.7			90
95	9.9	8		10.6	8.3		10.5	8.3		9.9	8		9.2	7.7		8.6			95
100	9.6	7.8		10.3	8.1		10.1	8.1		9.6	7.8		9	7.5		8.4	7.3		100
105	9.3	7.6	6.4	10	7.9	6.5	9.8	7.8	6.4	9.4	7.7		8.8	7.4		8.3	7.1		105
110	9	7.4	6.3	9.6	7.7	6.4	9.6	7.7	6.3	9.2	7.5		8.7	7.2		8.2	7		110
115	8.7	7.2	6.2	9.3	7.5	6.3	9.3	7.5	6.2	8.9	7.3	6.2	8.5	7.1		8.1	6.9		115
120	8.5	7.1	6.1	9.1	7.3	6.2	9	7.3	6.2	8.7	7.2	6.1	8.3	7	6	7.9	6.8		120
125	8.3	6.9	6	8.8	7.2	6.1	8.8	7.2	6.1	8.5	7	6	8.2	6.8	5.9	7.8	6.6	5.8	125
130	8	6.8	5.9	8.5	7	6	8.5	7	6	8.3	6.9	5.9	8	6.7	5.8	7.6	6.5	5.7	130
135	7.8	6.6	5.9	8.3	6.9	6	8.3	6.9	5.9	8.2	6.8	5.8	7.8	6.6	5.8	7.5	6.4	5.7	135
140	7.6	6.5	5.8	8.1	6.7	5.9	8.1	6.7	5.9	8	6.7	5.8	7.6	6.5	5.7	7.4	6.3	5.6	140
145	7.4	6.4	5.8	7.8	6.6	5.8	7.9	6.6	5.8	7.8	6.5	5.8	7.5	6.4	5.7	7.3	6.2	5.6	145
150	7.2	6.3	5.8	7.6	6.5	5.8	7.7	6.5	5.8	7.6	6.4	5.7	7.4	6.3	5.6	7.1	6.2	5.5	150
155	7	6.2	5.7	7.4	6.4	5.8	7.5	6.4	5.7	7.4	6.3	5.7	7.2	6.2	5.6	7	6.1	5.5	155
160	6.8	6.1	5.7	7.2	6.2	5.7	7.3	6.3	5.7	7.3	6.2	5.6	7.1	6.1	5.5	6.9	6	5.5	160
165	6.7	6	5.7	7	6.2	5.7	7.2	6.2	5.7	7.1	6.1	5.6	6.9	6	5.5	6.8	5.9	5.5	165
170	6.5	5.9	5.7	6.9	6.1	5.7	7	6.1	5.6	7	6.1	5.6	6.8	6	5.5	6.6	5.8	5.4	170
175	6.3	5.8	5.7	6.7	6	5.7	6.8	6	5.6	6.8	6	5.6	6.7	5.9	5.5	6.5	5.8	5.4	175
180	6.1	5.8	5.7	6.6	5.9	5.7	6.7	5.9	5.6	6.7	5.9	5.6	6.6	5.8	5.5	6.4	5.7	5.4	180
185	5.9	5.8	5.7	6.4	5.8	5.7	6.5	5.9	5.6	6.5	5.8	5.6	6.4	5.7	5.5	6.1	5.7	5.4	185
190	5.8	5.7	5.7	6.2	5.8	5.7	6.4	5.8	5.6	6.3	5.8	5.6	6	5.7	5.5	5.7	5.6	5.4	190
195	5.7	5.7	5.7	6.1	5.7	5.7	6.2	5.7	5.6	6.2	5.7	5.6	5.4	5.6	5.5	5.1	5.6	5.4	195
200	5.5	5.7	5.7	5.9	5.7	5.7	6	5.7	5.6	6	5.7	5.6	4.9	5.6	5.5	4.6	5.5	5.4	200
205	5.4	5.7		5.7	5.7	5.7	5.9	5.6	5.6	5.5	5.6	5.6	4.3	5.6	5.5	4	5.4	5.4	205
210	5.3			5.5	5.7	5.7	5.8	5.6	5.6	5	5.6	5.6	3.8	5.3	5.5	3.5	5.1	5.4	210
215	4.9			5.5	5.7		5.5	5.6	5.6	4.5	5.5	5.6	3.3	4.7	5.3	3	4.5	5.3	215
220				5.4	5.7		5.1	5.6	5.6	4.1	5.1	5.5	2.9	4.1	4.8	2.6	4	4.8	220
225				5.3			4.6	5.3	5.2	3.6	4.6	4.9	2.4	3.6	4.2	2.1	3.4	4.2	225
230							4.2	4.8		3.2	4.1	4.2	2	3.1	3.6	1.7	2.9	3.6	230
235							3.8	4.2		2.8	3.6	3.6	1.6	2.6	3		2.4	3	235
240							3.5			2.5	3.1	2.8		2.2	2.4		2	2.4	240
245										2.1	2.6			1.7	1.8		1.5	1.9	245
250										1.8									250
255										1.4									255

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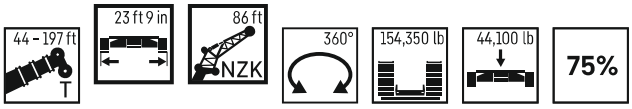
Lifting heights
Hauteurs de levage

TNZK



Lifting capacities
Forces de levage

TNZK

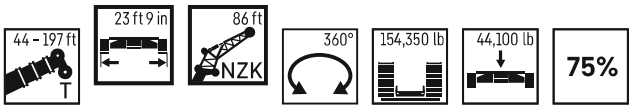


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
18	27.1																		18
19	27			25.4															19
20	26.8			25.3															20
22	26.4			25.1			23.1												22
24	26			24.8			22.9			21.7									24
26	25.5			24.6			22.8			21.6									26
28	25			24.2			22.6			21.5			20						28
30	24.4			23.9			22.4			21.4			19.9						30
32	23.7			23.5			22.1			21.2			19.8			18.8			32
34	22.9			22.8			21.7			21			19.7			18.7			34
36	22			22.2			21.3			20.7			19.5			18.6			36
38	21.2			21.5			20.9			20.4			19.3			18.4			38
40	20.5			20.9			20.4			20			19			18.3			40
45	18.6			19.3			19.1			19			18.3			17.8			45
50	17	13		17.8			17.9			17.9			17.4			17.1			50
55	15.6	12		16.4	12.2		16.7	12.1		16.9			16.6			16.4			55
60	14.2	11.2		15.2	11.4		15.6	11.4		15.9	11.5		15.8			15.7			60
65	12.9	10.5		14.1	10.7		14.5	10.8		15	10.9		15	10.8		15	10.8		65
70	11.7	9.8	8.8	13	10.1		13.6	10.2		14.1	10.4		14.2	10.3		14.3	10.3		70
75	10.7	9.3	8.4	12	9.6	8.5	12.8	9.7		13.3	9.9		13.5	9.9		13.6	9.9		75
80	9.8	8.9	8.1	11	9.2	8.2	11.9	9.3	8.2	12.6	9.5		12.8	9.5		13	9.5		80
85	9.1	8.4	7.8	10.2	8.8	7.9	11.1	9	8	11.8	9.1	8	12.1	9.2	8	12.4	9.2		85
90	8.5	8.1	7.6	9.5	8.4	7.7	10.3	8.6	7.8	11.1	8.8	7.8	11.5	8.9	7.8	11.8	8.9		90
95	7.9	7.8	7.4	8.9	8.1	7.5	9.7	8.3	7.6	10.5	8.5	7.6	10.9	8.6	7.7	11.3	8.7	7.7	95
100	7.5	7.5	7.2	8.4	7.8	7.3	9.1	8	7.4	9.9	8.2	7.5	10.4	8.3	7.5	10.8	8.4	7.5	100
105	7.1	7.2	7.1	7.9	7.6	7.2	8.7	7.8	7.3	9.3	8	7.3	9.9	8.1	7.4	10.3	8.2	7.4	105
110	6.6	7	7.1	7.5	7.3	7.1	8.2	7.5	7.1	8.9	7.8	7.2	9.4	7.9	7.2	9.8	8	7.3	110
115	6.3	6.8	7.1	7.1	7.1	7	7.8	7.3	7.1	8.5	7.5	7.1	9	7.6	7.1	9.4	7.8	7.1	115
120	6	6.8		6.8	6.9	7	7.4	7.1	7	8.1	7.3	7	8.6	7.5	7	9	7.6	7.1	120
125				6.4	6.8	7	7.1	7	7	7.7	7.2	6.9	8.2	7.3	7	8.7	7.4	7	125
130				6.1	6.7		6.8	6.8	7	7.4	7	6.9	7.9	7.1	6.9	8.4	7.2	6.9	130
135				5.9			6.5	6.7	7	7.1	6.9	6.9	7.6	7	6.9	8	7.1	6.9	135
140							6.2	6.7		6.8	6.7	6.9	7.3	6.8	6.9	7.7	7	6.8	140
145							6	6.7		6.5	6.7	6.9	7	6.7	6.9	7.4	6.8	6.8	145
150							5.9			6.3	6.6	6.9	6.8	6.6	6.9	7.2	6.7	6.8	150
155										6.1	6.6		6.5	6.6	6.9	7	6.6	6.8	155
160										5.9	6.6		6.3	6.5	6.9	6.7	6.6	6.8	160
165													6.1	6.5		6.5	6.5	6.8	165
170													6	6.5		6.3	6.5	6.8	170
175													5.8			6.2	6.4	6.8	175
180																6	6.4		180
185																5.9	6.4		185
190																5.8			190

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Lifting capacities
Forces de levage

TNZK

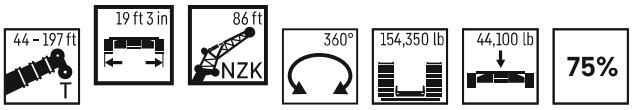


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	17.2			18.2															38
40	17.1			18.1															40
45	16.8			17.8			16.6												45
50	16.3			17.4			16.3			14.6									50
55	15.8			16.9			16			14.4									55
60	15.2			16.3			15.7			14.2			12						60
65	14.6			15.7			15.2			13.9			11.8			10.2			65
70	14			15.1			14.6			13.5			11.6			10.1			70
75	13.4	9.8		14.5	10.3		14.1			13.1			11.5			9.9			75
80	12.9	9.5		13.9	9.9		13.6	9.8		12.7			11.3			9.8			80
85	12.3	9.2		13.3	9.6		13.1	9.5		12.3			11.1			9.6			85
90	11.8	8.9		12.8	9.3		12.6	9.2		11.9	8.9		10.8			9.6			90
95	11.3	8.7	7.6	12.3	9		12.1	8.9		11.6	8.7		10.6	8.4		9.5	8.1		95
100	10.9	8.4	7.5	11.8	8.7	7.6	11.7	8.7	7.6	11.2	8.5		10.3	8.2		9.5	7.9		100
105	10.4	8.2	7.4	11.3	8.5	7.5	11.3	8.5	7.4	10.8	8.3	7.3	10	8		9.3	7.7		105
110	10	8	7.2	10.9	8.3	7.4	10.9	8.3	7.3	10.5	8.1	7.2	9.8	7.8		9.2	7.6		110
115	9.6	7.8	7.1	10.4	8.1	7.2	10.5	8.1	7.2	10.1	7.9	7.1	9.5	7.7	7	9	7.4		115
120	9.3	7.6	7.1	10	7.9	7.2	10.1	7.9	7.1	9.8	7.8	7.1	9.3	7.5	6.9	8.8	7.3	6.8	120
125	9	7.4	7	9.6	7.7	7.1	9.8	7.7	7	9.5	7.6	7	9.1	7.4	6.8	8.7	7.2	6.7	125
130	8.7	7.3	6.9	9.3	7.6	7	9.4	7.5	7	9.2	7.4	6.9	8.8	7.2	6.8	8.5	7.1	6.7	130
135	8.4	7.1	6.9	9.1	7.4	6.9	9.1	7.4	6.9	9	7.3	6.8	8.6	7.1	6.7	8.3	6.9	6.6	135
140	8.1	7	6.8	8.8	7.2	6.8	8.9	7.3	6.8	8.7	7.2	6.7	8.4	7	6.7	8.1	6.8	6.6	140
145	7.8	6.9	6.8	8.5	7.1	6.8	8.6	7.1	6.8	8.5	7	6.7	8.3	6.9	6.6	8	6.7	6.5	145
150	7.5	6.8	6.8	8.2	7	6.8	8.4	7	6.7	8.3	6.9	6.7	8.1	6.8	6.6	7.8	6.6	6.5	150
155	7.3	6.7	6.8	7.9	6.8	6.7	8.2	6.9	6.7	8.1	6.8	6.6	7.9	6.7	6.5	7.7	6.5	6.4	155
160	7.1	6.6	6.8	7.7	6.8	6.7	7.9	6.8	6.7	7.9	6.7	6.6	7.7	6.6	6.5	7.5	6.4	6.4	160
165	6.8	6.5	6.8	7.4	6.6	6.7	7.7	6.6	6.7	7.7	6.6	6.6	7.6	6.5	6.5	7.4	6.4	6.4	165
170	6.7	6.4	6.8	7.2	6.6	6.7	7.5	6.6	6.6	7.5	6.5	6.6	7.4	6.4	6.5	7.2	6.3	6.4	170
175	6.5	6.4	6.8	7	6.5	6.7	7.3	6.5	6.6	7.4	6.4	6.6	7.3	6.3	6.5	7	6.2	6.4	175
180	6.3	6.4	6.8	6.8	6.4	6.7	7.1	6.4	6.6	7.2	6.4	6.6	7.1	6.3	6.5	6.8	6.1	6.4	180
185	6.2	6.4	6.8	6.6	6.4	6.7	6.9	6.3	6.6	7	6.3	6.6	7	6.2	6.5	6.6	6.1	6.4	185
190	6	6.4		6.4	6.3	6.7	6.7	6.3	6.6	6.8	6.2	6.6	6.8	6.1	6.5	6.4	6	6.4	190
195	5.9	6.4		6.3	6.3	6.7	6.5	6.3	6.6	6.7	6.2	6.6	6.7	6.1	6.5	6.1	6	6.4	195
200	5.8			6.1	6.3	6.7	6.4	6.2	6.6	6.5	6.2	6.6	6.6	6.1	6.5	5.9	5.9	6.4	200
205	5.8			6	6.3		6.2	6.2	6.6	6.4	6.1	6.6	6.5	6	6.5	5.7	5.8	6.4	205
210				5.9	6.3		6.1	6.2	6.6	6.2	6.1	6.6	6.3	6	6.5	5.4	5.7	6.2	210
215				5.8	6.3		5.9	6.2	6.6	6.1	6.1	6.6	5.9	6	6.5	5.2	5.5	5.9	215
220				3.7			5.8	6.2		6	6.1	6.5	5.4	6	6.5	5	5.3	5.7	220
225							5.7	5.5		5.8	6	6.3	5	5.8	6.3	4.6	5.1	5.4	225
230							4.8	5.3		5.6	5.8		4.5	5.3	5.7	4.2	4.9	5.2	230
235										5.3	5.6		4.1	4.8	5.1	3.7	4.6	5	235
240										4.5			3.7	4.4	4.5	3.3	4.2	4.6	240
245										2.4			3.3	3.8	3.7	2.9	3.7	4	245
250													2.9	3.4		2.5	3.2	3.3	250
255													1.9	2.9		2.1	2.7	2.7	255
260																1.8	2.3		260

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Lifting capacities
Forces de levage

TNZK



	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
18	27.1																		18
19	27			25.4															19
20	26.8			25.3															20
22	26.4			25.1			23.1												22
24	26			24.8			22.9			21.7									24
26	25.5			24.6			22.8			21.6									26
28	25			24.2			22.6			21.5			20						28
30	24.4			23.9			22.4			21.4			19.9						30
32	23.7			23.5			22.1			21.2			19.8			18.8			32
34	22.9			22.8			21.7			21			19.7			18.7			34
36	22			22.2			21.3			20.7			19.5			18.6			36
38	21.2			21.5			20.9			20.4			19.3			18.4			38
40	20.5			20.9			20.4			20			19			18.3			40
45	18.6			19.3			19.1			19			18.3			17.8			45
50	17	13		17.8			17.9			17.9			17.4			17.1			50
55	15.6	12		16.4	12.2		16.7	12.1		16.9			16.6			16.4			55
60	14.2	11.2		15.2	11.4		15.6	11.4		15.9	11.5		15.8			15.7			60
65	12.9	10.5		14.1	10.7		14.5	10.8		15	10.9		15	10.8		15	10.8		65
70	11.7	9.8	8.8	13	10.1		13.6	10.2		14.1	10.4		14.2	10.3		14.3	10.3		70
75	10.7	9.3	8.4	12	9.6	8.5	12.8	9.7		13.3	9.9		13.5	9.9		13.6	9.9		75
80	9.8	8.9	8.1	11	9.2	8.2	11.9	9.3	8.2	12.6	9.5		12.8	9.5		13	9.5		80
85	9.1	8.4	7.8	10.2	8.8	7.9	11.1	9	8	11.8	9.1	8	12.1	9.2	8	12.4	9.2		85
90	8.5	8.1	7.6	9.5	8.4	7.7	10.3	8.6	7.8	11.1	8.8	7.8	11.5	8.9	7.8	11.8	8.9		90
95	7.9	7.8	7.4	8.9	8.1	7.5	9.7	8.3	7.6	10.5	8.5	7.6	10.9	8.6	7.7	11.3	8.7	7.7	95
100	7.5	7.5	7.2	8.4	7.8	7.3	9.1	8	7.4	9.9	8.2	7.5	10.4	8.3	7.5	10.8	8.4	7.5	100
105	7.1	7.2	7.1	7.9	7.6	7.2	8.7	7.8	7.3	9.3	8	7.3	9.9	8.1	7.4	10.3	8.2	7.4	105
110	6.6	7	7.1	7.5	7.3	7.1	8.2	7.5	7.1	8.9	7.8	7.2	9.4	7.9	7.2	9.8	8	7.3	110
115	6.3	6.8	7.1	7.1	7.1	7	7.8	7.3	7.1	8.5	7.5	7.1	9	7.6	7.1	9.4	7.8	7.1	115
120	6	6.8		6.8	6.9	7	7.4	7.1	7	8.1	7.3	7	8.6	7.5	7	9	7.6	7.1	120
125				6.4	6.8	7	7.1	7	7	7.7	7.2	6.9	8.2	7.3	7	8.7	7.4	7	125
130				6.1	6.7		6.8	6.8	7	7.4	7	6.9	7.9	7.1	6.9	8.4	7.2	6.9	130
135				5.9			6.5	6.7	7	7.1	6.9	6.9	7.6	7	6.9	8	7.1	6.9	135
140							6.2	6.7		6.8	6.7	6.9	7.3	6.8	6.9	7.7	7	6.8	140
145							6	6.7		6.5	6.7	6.9	7	6.7	6.9	7.4	6.8	6.8	145
150							5.9			6.3	6.6	6.9	6.8	6.6	6.9	7.2	6.7	6.8	150
155										6.1	6.6		6.5	6.6	6.9	7	6.6	6.8	155
160										5.9	6.6		6.3	6.5	6.9	6.7	6.6	6.8	160
165													6.1	6.5		6.5	6.5	6.8	165
170													6	6.5		6.3	6.5	6.8	170
175													5.8			6.2	6.4	6.8	175
180																6	6.4		180
185																5.9	6.4		185
190																5.8			190

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Lifting capacities
Forces de levage

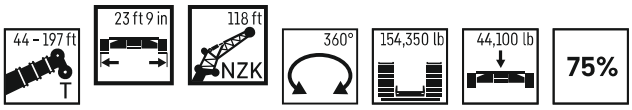
TNZK



	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	17.2			18.2															38
40	17.1			18.1															40
45	16.8			17.8			16.6												45
50	16.3			17.4			16.3			14.6									50
55	15.8			16.9			16			14.4									55
60	15.2			16.3			15.7			14.2			12						60
65	14.6			15.7			15.2			13.9			11.8			10.2			65
70	14			15.1			14.6			13.5			11.6			10.1			70
75	13.4	9.8		14.5	10.3		14.1			13.1			11.5			9.9			75
80	12.9	9.5		13.9	9.9		13.6	9.8		12.7			11.3			9.8			80
85	12.3	9.2		13.3	9.6		13.1	9.5		12.3			11.1			9.6			85
90	11.8	8.9		12.8	9.3		12.6	9.2		11.9	8.9		10.8			9.6			90
95	11.3	8.7	7.6	12.3	9		12.1	8.9		11.6	8.7		10.6	8.4		9.5	8.1		95
100	10.9	8.4	7.5	11.8	8.7	7.6	11.7	8.7	7.6	11.2	8.5		10.3	8.2		9.5	7.9		100
105	10.4	8.2	7.4	11.3	8.5	7.5	11.3	8.5	7.4	10.8	8.3	7.3	10	8		9.3	7.7		105
110	10	8	7.2	10.9	8.3	7.4	10.9	8.3	7.3	10.5	8.1	7.2	9.8	7.8		9.2	7.6		110
115	9.6	7.8	7.1	10.4	8.1	7.2	10.5	8.1	7.2	10.1	7.9	7.1	9.5	7.7	7	9	7.4		115
120	9.3	7.6	7.1	10	7.9	7.2	10.1	7.9	7.1	9.8	7.8	7.1	9.3	7.5	6.9	8.8	7.3	6.8	120
125	9	7.4	7	9.6	7.7	7.1	9.8	7.7	7	9.5	7.6	7	9.1	7.4	6.8	8.7	7.2	6.7	125
130	8.7	7.3	6.9	9.3	7.6	7	9.4	7.5	7	9.2	7.4	6.9	8.8	7.2	6.8	8.5	7.1	6.7	130
135	8.4	7.1	6.9	9.1	7.4	6.9	9.1	7.4	6.9	9	7.3	6.8	8.6	7.1	6.7	8.3	6.9	6.6	135
140	8.1	7	6.8	8.8	7.2	6.8	8.9	7.3	6.8	8.7	7.2	6.7	8.4	7	6.7	8.1	6.8	6.6	140
145	7.8	6.9	6.8	8.5	7.1	6.8	8.6	7.1	6.8	8.5	7	6.7	8.3	6.9	6.6	8	6.7	6.5	145
150	7.5	6.8	6.8	8.2	7	6.8	8.4	7	6.7	8.3	6.9	6.7	8.1	6.8	6.6	7.8	6.6	6.5	150
155	7.3	6.7	6.8	7.9	6.8	6.7	8.2	6.9	6.7	8.1	6.8	6.6	7.9	6.7	6.5	7.7	6.5	6.4	155
160	7.1	6.6	6.8	7.7	6.8	6.7	7.9	6.8	6.7	7.9	6.7	6.6	7.7	6.6	6.5	7.5	6.4	6.4	160
165	6.8	6.5	6.8	7.4	6.6	6.7	7.7	6.6	6.7	7.7	6.6	6.6	7.6	6.5	6.5	7.4	6.4	6.4	165
170	6.7	6.4	6.8	7.2	6.6	6.7	7.5	6.6	6.6	7.5	6.5	6.6	7.4	6.4	6.5	7.2	6.3	6.4	170
175	6.5	6.4	6.8	7	6.5	6.7	7.2	6.5	6.6	7.2	6.4	6.6	7.2	6.3	6.5	6.8	6.2	6.4	175
180	6.3	6.4	6.8	6.8	6.4	6.7	7	6.4	6.6	7.1	6.4	6.6	6.7	6.3	6.5	6.2	6.1	6.4	180
185	6.2	6.4	6.8	6.6	6.4	6.7	6.8	6.3	6.6	6.9	6.3	6.6	6	6.2	6.5	5.6	6.1	6.4	185
190	6	6.4		6.4	6.3	6.7	6.5	6.3	6.6	6.6	6.2	6.6	5.4	6.1	6.5	5.1	6	6.4	190
195	5.9	6.4		6.1	6.3	6.7	6.4	6.2	6.6	6	6.2	6.6	4.8	6	6.5	4.5	6	6.4	195
200	5.8			6	6.3	6.7	6.2	6.2	6.6	5.5	6.1	6.6	4.2	5.7	6.4	3.9	5.4	6.4	200
205	5.8			5.9	6.3		5.9	6.2	6.6	4.9	6	6.6	3.7	5	6.1	3.4	4.8	6	205
210				5.8	6.3		5.5	6.2	6.5	4.4	5.5	6.1	3.2	4.5	5.4	2.9	4.3	5.3	210
215				5.8	6.3		5	5.7	5.8	4	4.9	5.4	2.8	3.9	4.7	2.4	3.7	4.7	215
220				3.7			4.6	5.1		3.5	4.4	4.7	2.3	3.4	4	2	3.2	4	220
225							4.2	4.6		3.1	3.9	4	1.9	2.8	3.4	1.4	2.7	3.4	225
230							3.8	4.1		2.7	3.4		1.4	2.4	2.8		2.2	2.8	230
235										2.4	2.9			1.9	2.2		1.7	2.2	235
240										2				1.4	1.5			1.6	240
245										1.7									245

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Lifting capacities
Forces de levage

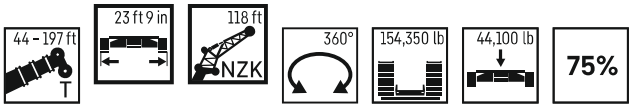


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	12.2																		22
24	12.6																		24
26	12.8			12															26
28	12.7			12.2			11.3												28
30	12.7			12.1			11.3												30
32	12.5			12			11.3			10.8									32
34	12.4			12			11.2			10.8									34
36	12.3			11.9			11.2			10.7			10.1						36
38	12.1			11.7			11.1			10.7			10.1			9.7			38
40	11.9			11.6			11			10.6			10			9.7			40
45	11.4			11.2			10.7			10.4			9.9			9.6			45
50	10.9			10.8			10.4			10.2			9.7			9.5			50
55	10.3			10.3			10			9.8			9.5			9.3			55
60	9.7			9.8			9.6			9.5			9.2			9.1			60
65	9.1	7.6		9.3			9.2			9.2			9			8.8			65
70	8.6	7.2		8.8			8.8			8.9			8.7			8.6			70
75	8.1	6.8		8.4	6.9		8.4			8.5			8.4			8.3			75
80	7.6	6.5		7.9	6.5		8	6.5		8.2	6.5		8.1			8.1			80
85	7.2	6.1		7.5	6.2		7.7	6.2		7.8	6.2		7.8	6.2		7.8	6.2		85
90	6.8	5.8		7.1	5.9		7.3	6		7.5	6		7.5	6		7.6	6		90
95	6.4	5.6		6.8	5.7		7	5.7		7.2	5.8		7.2	5.8		7.3	5.8		95
100	6.1	5.3	4.5	6.4	5.4		6.7	5.5		6.9	5.6		6.9	5.6		7	5.6		100
105	5.7	5.1	4.4	6.1	5.2	4.4	6.4	5.3	4.4	6.6	5.4		6.7	5.4		6.8	5.4		105
110	5.4	4.8	4.2	5.8	5	4.3	6.1	5.1	4.3	6.3	5.2		6.4	5.2		6.6	5.2		110
115	5.1	4.6	4.1	5.5	4.8	4.2	5.8	4.9	4.2	6.1	5	4.2	6.2	5	4.2	6.3	5.1		115
120	4.8	4.4	4	5.3	4.6	4	5.6	4.7	4.1	5.8	4.9	4.1	6	4.9	4.1	6.1	4.9	4	120
125	4.5	4.3	3.9	5	4.5	4	5.3	4.6	4	5.6	4.7	4	5.8	4.7	4	5.9	4.8	4	125
130	4.3	4.1	3.8	4.8	4.3	3.8	5.1	4.4	3.9	5.4	4.5	3.9	5.5	4.6	3.9	5.7	4.7	3.9	130
135	4.1	4	3.7	4.5	4.2	3.8	4.9	4.3	3.8	5.2	4.4	3.8	5.3	4.5	3.8	5.5	4.5	3.8	135
140	3.8	3.9	3.7	4.3	4	3.7	4.7	4.2	3.7	5	4.3	3.8	5.2	4.3	3.7	5.3	4.4	3.8	140
145	3.6	3.8	3.7	4.1	3.9	3.7	4.5	4	3.7	4.8	4.2	3.7	5	4.2	3.7	5.2	4.3	3.7	145
150	3.5	3.7		3.9	3.8	3.7	4.3	4	3.6	4.6	4	3.7	4.8	4.1	3.6	5	4.2	3.6	150
155				3.7	3.7		4.1	3.9	3.6	4.5	3.9	3.6	4.7	4	3.6	4.8	4.1	3.6	155
160				3.5	3.7		3.9	3.8	3.6	4.3	3.9	3.6	4.5	3.9	3.6	4.7	4	3.6	160
165				3.4	3.7		3.8	3.7	3.6	4.1	3.8	3.6	4.4	3.8	3.6	4.5	3.9	3.5	165
170							3.6	3.6		3.9	3.7	3.6	4.2	3.8	3.6	4.4	3.8	3.5	170
175							3.5	3.6		3.8	3.6	3.6	4.1	3.7	3.6	4.3	3.7	3.5	175
180							3.4			3.7	3.6	3.6	3.9	3.6	3.6	4.2	3.7	3.5	180
185										3.5	3.6		3.8	3.6	3.6	4	3.6	3.5	185
190										3.4	3.6		3.7	3.6	3.6	3.9	3.6	3.5	190
195										3.3			3.6	3.6		3.8	3.5	3.5	195
200													3.4	3.6		3.7	3.5	3.5	200
205													3.4			3.6	3.5	3.5	205
210													3.3			3.5	3.5		210
215																3.4	3.5		215
220																3.3	3.5		220

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Lifting capacities
Forces de levage

TNZK

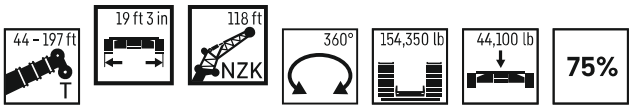


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	9.1			9.5															45
50	9			9.4															50
55	8.9			9.3			8.9			8.2									55
60	8.8			9.2			8.8			8.1			7.4						60
65	8.6			9			8.7			8.1			7.3			6.7			65
70	8.4			8.8			8.5			8			7.2			6.6			70
75	8.1			8.6			8.3			7.8			7.1			6.6			75
80	7.9			8.3			8.1			7.6			7			6.5			80
85	7.7			8.1			7.9			7.5			6.9			6.4			85
90	7.5			7.9			7.7			7.3			6.8			6.3			90
95	7.2	5.7		7.7	5.9		7.5			7.1			6.7			6.2			95
100	7	5.6		7.4	5.8		7.3	5.7		7			6.5			6.1			100
105	6.8	5.4		7.2	5.6		7.1	5.5		6.8	5.4		6.4			6			105
110	6.6	5.2		7	5.4		6.9	5.4		6.6	5.2		6.2	5		5.9	4.8		110
115	6.3	5.1		6.7	5.3		6.7	5.2		6.4	5.1		6.1	4.9		5.7	4.7		115
120	6.2	4.9		6.5	5.1		6.5	5.1		6.3	5		5.9	4.8		5.6	4.6		120
125	6	4.8	3.9	6.3	5	4	6.3	4.9	4	6.1	4.9		5.8	4.7		5.5	4.5		125
130	5.8	4.7	3.9	6.1	4.9	3.9	6.1	4.8	3.9	5.9	4.7		5.7	4.6		5.4	4.4		130
135	5.6	4.6	3.8	5.9	4.7	3.9	6	4.7	3.8	5.8	4.6	3.8	5.5	4.5		5.3	4.3		135
140	5.4	4.4	3.7	5.8	4.6	3.8	5.8	4.6	3.8	5.6	4.5	3.7	5.4	4.4	3.6	5.2	4.2		140
145	5.2	4.3	3.7	5.6	4.5	3.7	5.6	4.5	3.7	5.5	4.4	3.7	5.3	4.3	3.6	5.1	4.2	3.5	145
150	5.1	4.2	3.6	5.4	4.4	3.7	5.5	4.4	3.7	5.3	4.3	3.6	5.2	4.2	3.5	5	4.1	3.5	150
155	4.9	4.1	3.6	5.2	4.3	3.6	5.3	4.3	3.6	5.2	4.2	3.6	5	4.1	3.5	4.9	4	3.4	155
160	4.8	4	3.5	5.1	4.2	3.6	5.2	4.2	3.6	5.1	4.1	3.5	4.9	4	3.4	4.7	3.9	3.4	160
165	4.7	3.9	3.5	4.9	4.1	3.5	5	4.1	3.5	5	4.1	3.5	4.8	4	3.4	4.7	3.9	3.4	165
170	4.5	3.9	3.5	4.8	4	3.5	4.9	4	3.5	4.8	4	3.4	4.7	3.9	3.4	4.6	3.8	3.3	170
175	4.4	3.8	3.5	4.7	3.9	3.5	4.7	3.9	3.5	4.7	3.9	3.4	4.6	3.8	3.4	4.5	3.7	3.3	175
180	4.3	3.7	3.5	4.5	3.8	3.5	4.6	3.9	3.4	4.6	3.8	3.4	4.5	3.8	3.3	4.4	3.7	3.3	180
185	4.2	3.7	3.5	4.4	3.8	3.4	4.5	3.8	3.4	4.5	3.8	3.3	4.4	3.7	3.3	4.3	3.6	3.3	185
190	4.1	3.6	3.5	4.3	3.7	3.4	4.4	3.7	3.4	4.4	3.7	3.3	4.3	3.6	3.3	4.2	3.6	3.2	190
195	4	3.6	3.5	4.2	3.6	3.4	4.3	3.7	3.4	4.3	3.6	3.3	4.2	3.6	3.3	4.1	3.5	3.2	195
200	3.9	3.5	3.5	4.1	3.6	3.4	4.2	3.6	3.4	4.2	3.6	3.3	4.1	3.5	3.3	4	3.5	3.2	200
205	3.8	3.5	3.5	4	3.5	3.4	4.1	3.6	3.4	4.1	3.5	3.3	4	3.5	3.3	3.9	3.4	3.2	205
210	3.7	3.4	3.5	3.9	3.5	3.4	4	3.5	3.4	4	3.5	3.3	3.9	3.4	3.3	3.9	3.4	3.2	210
215	3.6	3.4	3.5	3.8	3.5	3.4	3.9	3.5	3.4	3.9	3.4	3.3	3.9	3.4	3.3	3.8	3.3	3.2	215
220	3.5	3.4		3.7	3.4	3.4	3.8	3.4	3.4	3.8	3.4	3.3	3.8	3.3	3.3	3.7	3.3	3.2	220
225	3.4	3.4		3.6	3.4	3.4	3.7	3.4	3.4	3.7	3.4	3.3	3.7	3.3	3.3	3.7	3.3	3.2	225
230	3.3	3.4		3.5	3.4	3.4	3.6	3.4	3.4	3.7	3.3	3.3	3.6	3.3	3.3	3.6	3.2	3.2	230
235	3.3			3.5	3.4		3.6	3.4	3.4	3.6	3.3	3.3	3.6	3.3	3.3	3.5	3.2	3.2	235
240				3.4	3.4		3.5	3.4	3.4	3.5	3.3	3.3	3.5	3.2	3.3	3.5	3.2	3.2	240
245				3.3			3.5	3.4		3.5	3.3	3.3	3.5	3.2	3.3	3.3	3.2	3.2	245
250				3.2			3.4	3.4		3.4	3.3	3.3	3.4	3.2	3.3	3	3.2	3.2	250
255							3.3	3.4		3.4	3.3	3.3	3.1	3.2	3.3	2.7	3.2	3.2	255
260							3.2			3.3	3.3	3.3	2.7	3.2	3.3	2.3	3.2	3.2	260
265										3.3	3.3		2.3	3.2	3.2	1.9	3	3.2	265
270										3.1	3.3		2	2.8	2.7	1.6	2.6	2.9	270
275													1.7	2.4			2.2	2.3	275
280													1.4	1.9			1.8	1.8	280

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Lifting capacities
Forces de levage

TNZK

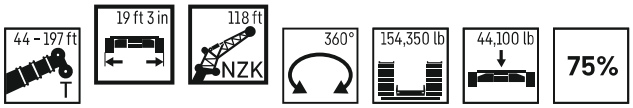


	44 ft			58 ft			72 ft			86 ft			100 ft			114 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	12.2																		22
24	12.6																		24
26	12.8			12															26
28	12.7			12.2			11.3												28
30	12.7			12.1			11.3												30
32	12.5			12			11.3			10.8									32
34	12.4			12			11.2			10.8									34
36	12.3			11.9			11.2			10.7			10.1						36
38	12.1			11.7			11.1			10.7			10.1			9.7			38
40	11.9			11.6			11			10.6			10			9.7			40
45	11.4			11.2			10.7			10.4			9.9			9.6			45
50	10.9			10.8			10.4			10.2			9.7			9.5			50
55	10.3			10.3			10			9.8			9.5			9.3			55
60	9.7			9.8			9.6			9.5			9.2			9.1			60
65	9.1	7.6		9.3			9.2			9.2			9			8.8			65
70	8.6	7.2		8.8			8.8			8.9			8.7			8.6			70
75	8.1	6.8		8.4	6.9		8.4			8.5			8.4			8.3			75
80	7.6	6.5		7.9	6.5		8	6.5		8.2	6.5		8.1			8.1			80
85	7.2	6.1		7.5	6.2		7.7	6.2		7.8	6.2		7.8	6.2		7.8	6.2		85
90	6.8	5.8		7.1	5.9		7.3	6		7.5	6		7.5	6		7.6	6		90
95	6.4	5.6		6.8	5.7		7	5.7		7.2	5.8		7.2	5.8		7.3	5.8		95
100	6.1	5.3	4.5	6.4	5.4		6.7	5.5		6.9	5.6		6.9	5.6		7	5.6		100
105	5.7	5.1	4.4	6.1	5.2	4.4	6.4	5.3	4.4	6.6	5.4		6.7	5.4		6.8	5.4		105
110	5.4	4.8	4.2	5.8	5	4.3	6.1	5.1	4.3	6.3	5.2		6.4	5.2		6.6	5.2		110
115	5.1	4.6	4.1	5.5	4.8	4.2	5.8	4.9	4.2	6.1	5	4.2	6.2	5	4.2	6.3	5.1		115
120	4.8	4.4	4	5.3	4.6	4	5.6	4.7	4.1	5.8	4.9	4.1	6	4.9	4.1	6.1	4.9	4	120
125	4.5	4.3	3.9	5	4.5	4	5.3	4.6	4	5.6	4.7	4	5.8	4.7	4	5.9	4.8	4	125
130	4.3	4.1	3.8	4.8	4.3	3.8	5.1	4.4	3.9	5.4	4.5	3.9	5.5	4.6	3.9	5.7	4.7	3.9	130
135	4.1	4	3.7	4.5	4.2	3.8	4.9	4.3	3.8	5.2	4.4	3.8	5.3	4.5	3.8	5.5	4.5	3.8	135
140	3.8	3.9	3.7	4.3	4	3.7	4.7	4.2	3.7	5	4.3	3.8	5.2	4.3	3.7	5.3	4.4	3.8	140
145	3.6	3.8	3.7	4.1	3.9	3.7	4.5	4	3.7	4.8	4.2	3.7	5	4.2	3.7	5.2	4.3	3.7	145
150	3.5	3.7		3.9	3.8	3.7	4.3	4	3.6	4.6	4	3.7	4.8	4.1	3.6	5	4.2	3.6	150
155				3.7	3.7		4.1	3.9	3.6	4.5	3.9	3.6	4.7	4	3.6	4.8	4.1	3.6	155
160				3.5	3.7		3.9	3.8	3.6	4.3	3.9	3.6	4.5	3.9	3.6	4.7	4	3.6	160
165				3.4	3.7		3.8	3.7	3.6	4.1	3.8	3.6	4.4	3.8	3.6	4.5	3.9	3.5	165
170							3.6	3.6		3.9	3.7	3.6	4.2	3.8	3.6	4.4	3.8	3.5	170
175							3.5	3.6		3.8	3.6	3.6	4.1	3.7	3.6	4.3	3.7	3.5	175
180							3.4			3.7	3.6	3.6	3.9	3.6	3.6	4.2	3.7	3.5	180
185										3.5	3.6		3.8	3.6	3.6	4	3.6	3.5	185
190										3.4	3.6		3.7	3.6	3.6	3.9	3.6	3.5	190
195										3.3			3.6	3.6		3.8	3.5	3.5	195
200													3.4	3.6		3.7	3.5	3.5	200
205													3.4			3.6	3.5	3.5	205
210													3.3			3.5	3.5		210
215																3.4	3.5		215
220																3.3	3.5		220

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Lifting capacities
Forces de levage

TNZK

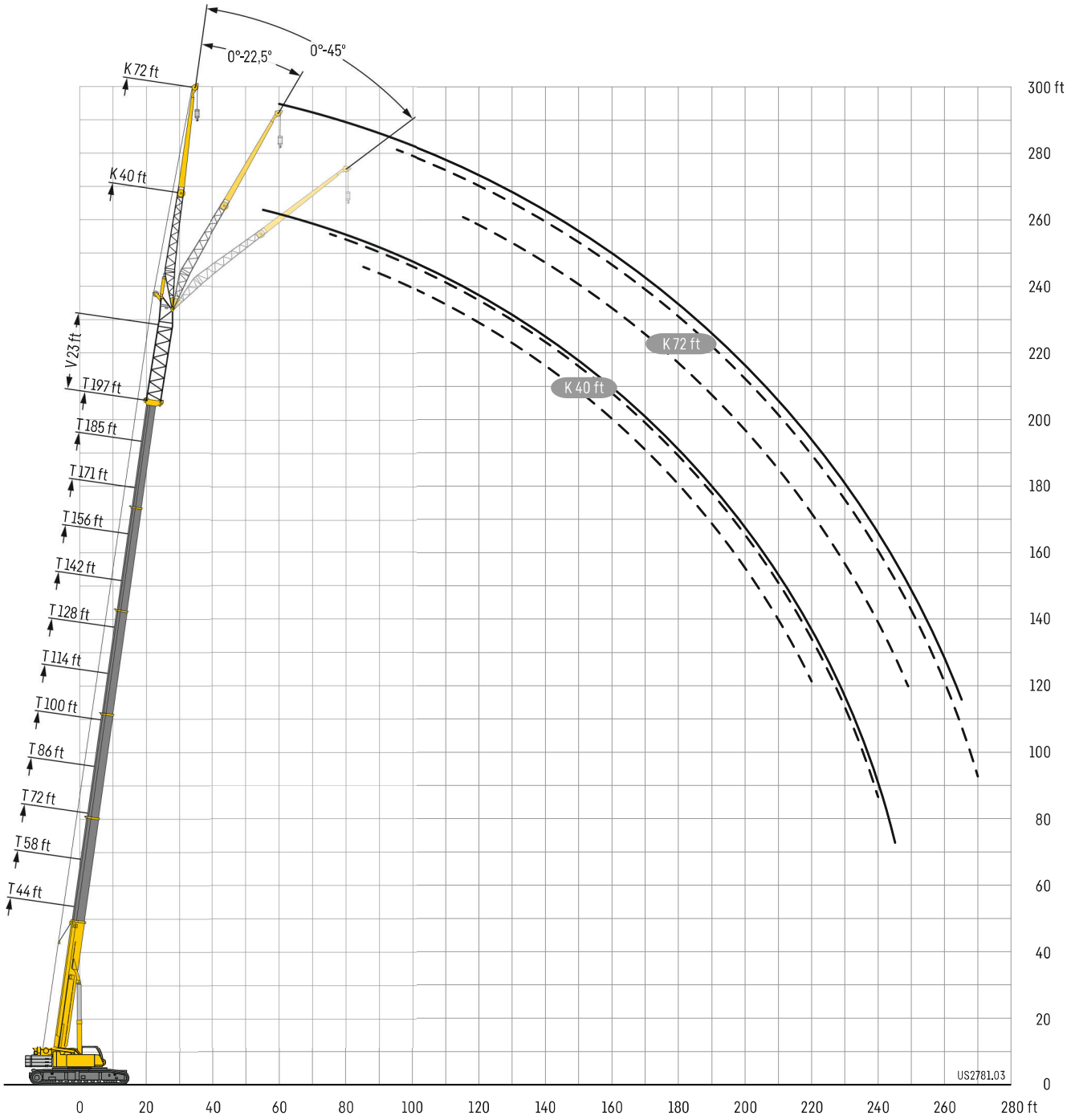


	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	9.1			9.5															45
50	9			9.4															50
55	8.9			9.3			8.9			8.2									55
60	8.8			9.2			8.8			8.1			7.4						60
65	8.6			9			8.7			8.1			7.3			6.7			65
70	8.4			8.8			8.5			8			7.2			6.6			70
75	8.1			8.6			8.3			7.8			7.1			6.6			75
80	7.9			8.3			8.1			7.6			7			6.5			80
85	7.7			8.1			7.9			7.5			6.9			6.4			85
90	7.5			7.9			7.7			7.3			6.8			6.3			90
95	7.2	5.7		7.7	5.9		7.5			7.1			6.7			6.2			95
100	7	5.6		7.4	5.8		7.3	5.7		7			6.5			6.1			100
105	6.8	5.4		7.2	5.6		7.1	5.5		6.8	5.4		6.4			6			105
110	6.6	5.2		7	5.4		6.9	5.4		6.6	5.2		6.2	5		5.9	4.8		110
115	6.3	5.1		6.7	5.3		6.7	5.2		6.4	5.1		6.1	4.9		5.7	4.7		115
120	6.2	4.9		6.5	5.1		6.5	5.1		6.3	5		5.9	4.8		5.6	4.6		120
125	6	4.8	3.9	6.3	5	4	6.3	4.9	4	6.1	4.9		5.8	4.7		5.5	4.5		125
130	5.8	4.7	3.9	6.1	4.9	3.9	6.1	4.8	3.9	5.9	4.7		5.7	4.6		5.4	4.4		130
135	5.6	4.6	3.8	5.9	4.7	3.9	6	4.7	3.8	5.8	4.6	3.8	5.5	4.5		5.3	4.3		135
140	5.4	4.4	3.7	5.8	4.6	3.8	5.8	4.6	3.8	5.6	4.5	3.7	5.4	4.4	3.6	5.2	4.2		140
145	5.2	4.3	3.7	5.6	4.5	3.7	5.6	4.5	3.7	5.5	4.4	3.7	5.3	4.3	3.6	5.1	4.2	3.5	145
150	5.1	4.2	3.6	5.4	4.4	3.7	5.5	4.4	3.7	5.3	4.3	3.6	5.2	4.2	3.5	5	4.1	3.5	150
155	4.9	4.1	3.6	5.2	4.3	3.6	5.3	4.3	3.6	5.2	4.2	3.6	5	4.1	3.5	4.9	4	3.4	155
160	4.8	4	3.5	5.1	4.2	3.6	5.2	4.2	3.6	5.1	4.1	3.5	4.9	4	3.4	4.7	3.9	3.4	160
165	4.7	3.9	3.5	4.9	4.1	3.5	5	4.1	3.5	5	4.1	3.5	4.8	4	3.4	4.7	3.9	3.4	165
170	4.5	3.9	3.5	4.8	4	3.5	4.9	4	3.5	4.8	4	3.4	4.7	3.9	3.4	4.6	3.8	3.3	170
175	4.4	3.8	3.5	4.7	3.9	3.5	4.7	3.9	3.5	4.7	3.9	3.4	4.6	3.8	3.4	4.5	3.7	3.3	175
180	4.3	3.7	3.5	4.5	3.8	3.5	4.6	3.9	3.4	4.6	3.8	3.4	4.5	3.8	3.3	4.4	3.7	3.3	180
185	4.2	3.7	3.5	4.4	3.8	3.4	4.5	3.8	3.4	4.5	3.8	3.3	4.4	3.7	3.3	4.3	3.6	3.3	185
190	4.1	3.6	3.5	4.3	3.7	3.4	4.4	3.7	3.4	4.4	3.7	3.3	4.3	3.6	3.3	4.2	3.6	3.2	190
195	4	3.6	3.5	4.2	3.6	3.4	4.3	3.7	3.4	4.3	3.6	3.3	4.2	3.6	3.3	4.1	3.5	3.2	195
200	3.9	3.5	3.5	4.1	3.6	3.4	4.2	3.6	3.4	4.2	3.6	3.3	4.1	3.5	3.3	4	3.5	3.2	200
205	3.8	3.5	3.5	4	3.5	3.4	4.1	3.6	3.4	4.1	3.5	3.3	4	3.5	3.3	3.8	3.4	3.2	205
210	3.7	3.4	3.5	3.9	3.5	3.4	3.9	3.5	3.4	3.9	3.5	3.3	3.9	3.4	3.3	3.5	3.4	3.2	210
215	3.6	3.4	3.5	3.8	3.5	3.4	3.9	3.5	3.4	3.8	3.4	3.3	3.5	3.4	3.3	3	3.3	3.2	215
220	3.5	3.4		3.7	3.4	3.4	3.8	3.4	3.4	3.8	3.4	3.3	3	3.3	3.3	2.6	3.3	3.2	220
225	3.4	3.4		3.6	3.4	3.4	3.7	3.4	3.4	3.7	3.4	3.3	2.6	3.3	3.3	2.2	3.3	3.2	225
230	3.3	3.4		3.5	3.4	3.4	3.6	3.4	3.4	3.3	3.3	3.3	2.1	3.3	3.3	1.7	3.2	3.2	230
235	3.3			3.4	3.4		3.5	3.4	3.4	2.9	3.3	3.3	1.7	3.2	3.3		2.9	3.2	235
240				3.3	3.4		3.4	3.4	3.4	2.5	3.3	3.3		2.8	3.3		2.5	3.2	240
245				3.3			3.1	3.4		2.2	3.2	3.3		2.3	3		2.1	2.9	245
250				3.2			2.8	3.3		1.8	2.8	3		1.9	2.4		1.6	2.4	250
255							2.5	3		1.5	2.3	2.4		1.3	1.9			1.9	255
260							2.2				1.9	1.7							260
265											1.5								265

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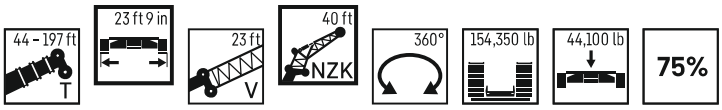
Lifting heights
Hauteurs de levage

TVNZK



Lifting capacities
Forces de levage

TVNZK

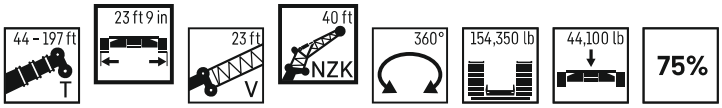


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
11	46.1																		11
12	46.1																		12
13	46.1																		13
14	46.1			46.1															14
15	46.1			46.1															15
16	46.1			46.1															16
17	46.1			46.1															17
18	46.1			46.1															18
19	46.1			46.1			44.5												19
20	46.1			46.1			44.4												20
22	46.1			46.1			44.3			40.6									22
24	46.1			46.1			44.1			40.6									24
26	46.1	37.8		45.9			43.8			40.5			36						26
28	45.4	36.3		45.1			43			40.3			36						28
30	43.6	34.9		44	35.9		41.8			40.1			35.9			33.3			30
32	41.8	33.6		42.5	34.7		40.7			39.5			35.8			33.3			32
34	40.1	32.4		41	33.5		39.5			38.6			35.5			33.2			34
36	38.4	31.3	23.2	39.6	32.5		38.4	32.4		37.7			35.2			33.1			36
38	36.8	30.3	23.2	38.2	31.5		37.2	31.6		36.8			34.6			32.9			38
40	35.3	29.4	23.2	36.8	30.5	23.2	36.1	30.7		35.8	30.4		33.9			32.6			40
45	32.1	27.3	22.7	33.7	28.4	23.1	33.5	28.8	23.2	33.5	28.7		32.1	27.8		31.3	27.2		45
50	29.1	25.4	21.8	31.1	26.7	22.3	30.8	27	22.5	31.5	27.1		30.1	26.5		29.8	26.1		50
55	26.7	23.9	21	28.7	25.2	21.5	28.2	25.2	21.8	29.5	25.7	22.1	27.9	25.2	22.2	28.2	25		55
60	24.5	22.4	20.3	26.6	23.7	20.8	26.1	23.5	21.1	27.5	24.3	21.4	25.9	24.1	21.6	26.5	23.9	21.5	60
65	22.6	20.8	19.8	24.7	22.2	20.3	24	22	20.6	25.7	22.8	20.9	24.1	22.8	21	24.8	23	20.9	65
70	20.8	19.4	19.2	23	20.9	19.8	22.3	20.6	19.8	24	21.6	20.3	22.4	21.5	20.3	23.2	21.9	20.2	70
75	19.3	18.1	18.3	21.5	19.6	19.2	20.6	19.3	18.9	22.4	20.4	19.5	21	20.1	19.5	21.9	20.7	19.6	75
80	17.9	17	17.4	20.1	18.5	18.5	19.2	18.2	17.9	21	19.3	18.6	19.7	18.9	18.7	20.6	19.6	18.9	80
85	16.7	16	16.6	18.8	17.5	17.6	18	17.2	17	19.7	18.3	17.8	18.4	17.9	17.7	19.5	18.5	18.2	85
90	15.5	15.1	15.6	17.6	16.6	16.9	16.8	16.3	16.2	18.6	17.4	17	17.3	16.9	16.8	18.4	17.6	17.3	90
95	14.5	14.4		16.6	15.8	16.2	15.8	15.4	15.5	17.5	16.6	16.3	16.3	15.9	15.9	17.3	16.7	16.5	95
100				15.7	15.1	12.1	14.9	14.6	14.8	16.6	15.9	15.7	15.4	15	15.1	16.4	15.9	15.7	100
105				14.8	14.5		14	13.8	14.1	15.7	15.2	15.1	14.5	14.2	14.3	15.6	15.1	15	105
110				14	13.9		13.3	13.1	13.4	14.9	14.5	14.6	13.7	13.5	13.6	14.8	14.4	14.4	110
115							12.6	12.5		14.2	13.9	14	13	12.8	13	14.1	13.7	13.7	115
120							11.9	11.9		13.5	13.3		12.3	12.2	12.4	13.4	13.1	13.2	120
125							11.4	11.5		12.9	12.7		11.7	11.6	11.8	12.8	12.5	12.6	125
130										12.4	12.3		11.1	11.1	11.2	12.2	12	12.1	130
135										11.9	11.9		10.6	10.5		11.7	11.5	11.6	135
140										11.5			10.1	10.1		11.2	11	11.2	140
145													9.7	9.7		10.7	10.6	10.7	145
150													9.4	9.4		10.3	10.2		150
155													9.1			9.9	9.9		155
160																9.6	9.6		160
165																9.4	9.4		165
170																5.1			170

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Lifting capacities
Forces de levage

TVNZK

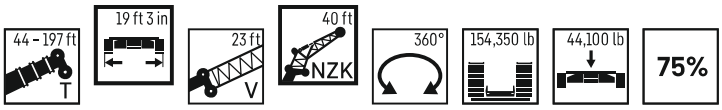


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
36	30																		36
38	29.9																		38
40	29.8			27.8															40
45	29.3			27.5			25.1			22.8									45
50	28.3			27.2			25			22.7									50
55	27.2	24.1		26.4			24.8			22.6			18.9			16.5			55
60	25.9	23.3		25.4	22.8		24.2	21.2		22.5			18.8			16.4			60
65	24.5	22.4	20.3	24.4	22.1	20	23.5	20.7		22.2	19.8		18.8	18.6		16.4			65
70	23.2	21.6	19.8	23.3	21.4	19.4	22.6	20.1		21.8	19.3		18.6	18.3		16.4			70
75	21.9	20.6	19.2	22.1	20.6	18.9	21.7	19.6	18.3	21.2	18.9	17.3	18.4	17.9		16.3	16.2		75
80	20.7	19.6	18.6	21	19.7	18.4	20.8	18.9	17.8	20.6	18.4	16.8	18	17.6	15.7	16.2	15.8		80
85	19.5	18.7	18	20	18.8	18	19.8	18.2	17.2	19.7	17.9	16.4	17.6	17.2	15.4	15.8	15.4	13.9	85
90	18.4	17.8	17.2	18.9	18	17.3	18.9	17.5	16.8	18.9	17.3	16	17.2	16.8	15.1	15.3	14.9	13.6	90
95	17.4	16.9	16.5	18	17.2	16.6	18	16.8	16.3	18	16.7	15.6	16.8	16.3	14.7	14.8	14.4	13.4	95
100	16.4	16.1	15.8	17.1	16.5	16	17.2	16.2	15.8	17.3	16.1	15.2	16.2	15.8	14.4	14.2	13.9	13.1	100
105	15.5	15.4	15.2	16.2	15.8	15.4	16.4	15.6	15.3	16.5	15.6	14.8	15.7	15.2	14.1	13.7	13.4	12.8	105
110	14.7	14.6	14.6	15.4	15.1	14.8	15.7	15	14.7	15.9	15	14.4	15.2	14.8	13.7	13.2	12.9	12.6	110
115	13.9	13.9	14	14.6	14.5	14.3	14.9	14.4	14.3	15.2	14.5	14	14.7	14.3	13.4	12.8	12.5	12.3	115
120	13.1	13.2	13.3	14	13.8	13.8	14.2	13.9	13.8	14.6	14	13.7	14.1	13.8	13.1	12.3	12.1	12	120
125	12.5	12.5	12.7	13.3	13.2	13.2	13.6	13.3	13.3	14	13.5	13.3	13.6	13.4	12.8	11.8	11.6	11.6	125
130	11.8	11.9	12.1	12.6	12.6	12.7	12.9	12.8	12.8	13.4	13	13	13.1	12.9	12.5	11.3	11.2	11.3	130
135	11.2	11.3	11.5	12.1	12	12.1	12.3	12.3	12.3	12.8	12.5	12.5	12.6	12.5	12.2	10.9	10.8	10.9	135
140	10.7	10.8	11	11.5	11.5	11.6	11.6	11.8	11.9	12.2	12	12.1	12.2	12	11.9	10.4	10.5	10.6	140
145	10.2	10.2	10.4	11	11	11.1	11.1	11.3	11.4	11.7	11.6	11.7	11.7	11.6	11.6	10	10.1	10.2	145
150	9.7	9.8	10	10.5	10.5	10.7	10.5	10.8	10.9	11.1	11.1	11.3	11.2	11.2	11.3	9.6	9.7	9.9	150
155	9.3	9.4	9.6	10	10.1	10.2	10	10.2	10.4	10.6	10.7	10.8	10.8	10.8	10.9	9.2	9.4	9.5	155
160	9	9		9.7	9.7	9.8	9.6	9.8	9.9	10.2	10.3	10.4	10.3	10.4	10.6	8.8	9	9.2	160
165	8.6	8.7		9.3	9.3	9.5	9.2	9.4	9.5	9.7	9.9	10	9.9	10	10.2	8.5	8.7	8.9	165
170	8.3	8.4		9	9	9.2	8.8	9	9.1	9.4	9.5	9.6	9.6	9.7	9.8	8.2	8.4	8.5	170
175	8	8.1		8.7	8.8		8.4	8.6	8.8	9	9.1	9.3	9.3	9.4	9.5	7.9	8.1	8.2	175
180	7.8	7.8		8.4	8.5		8.1	8.3	8.4	8.7	8.8	8.9	9	9.1	9.2	7.6	7.7	7.9	180
185				8.2	8.2		7.8	8	8.1	8.4	8.5	8.6	8.7	8.8	8.9	7.3	7.4	7.6	185
190				8	8		7.5	7.7		8.1	8.2	8.3	8.3	8.5	8.6	7	7.1	7.3	190
195				7.4			7.2	7.3		7.8	7.9	8	7.7	8.2	8.3	6.8	6.9	7	195
200							6.9	7		7.5	7.6		7.1	7.6	7.7	6.5	6.6	6.7	200
205							6.6	6.8		7.2	7.4		6.6	7	7.1	6.2	6.4	6.5	205
210							4.4			7	7.1		6	6.4	6.5	5.8	6.1	6.2	210
215										6.5	6.8		5.6	5.9		5.3	5.8	5.8	215
220										4.9			5.1	5.4		4.8	5.2	5.3	220
225													4.6	4.9		4.3	4.7		225
230													4.1	4.3		3.8	4.2		230
235													2.1			3.4	3.7		235
240																2.9	3.2		240
245																1.8			245

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Lifting capacities
Forces de levage

TVNZK



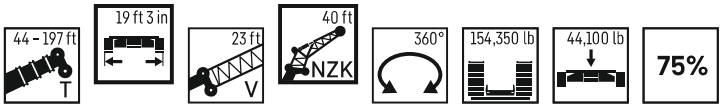
	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
11	46.1																		11
12	46.1																		12
13	46.1																		13
14	46.1			46.1															14
15	46.1			46.1															15
16	46.1			46.1															16
17	46.1			46.1															17
18	46.1			46.1															18
19	46.1			46.1			44.5												19
20	46.1			46.1			44.4												20
22	46.1			46.1			44.3			40.6									22
24	46.1			46.1			44.1			40.6									24
26	46.1	37.8		45.9			43.8			40.5			36						26
28	45.4	36.3		45.1			43			40.3			36						28
30	43.6	34.9		44	35.9		41.8			40.1			35.9			33.3			30
32	41.8	33.6		42.5	34.7		40.7			39.5			35.8			33.3			32
34	40.1	32.4		41	33.5		39.5			38.6			35.5			33.2			34
36	38.4	31.3	23.2	39.6	32.5		38.4	32.4		37.7			35.2			33.1			36
38	36.8	30.3	23.2	38.2	31.5		37.2	31.6		36.8			34.6			32.9			38
40	35.3	29.4	23.2	36.8	30.5	23.2	36.1	30.7		35.8	30.4		33.9			32.6			40
45	32.1	27.3	22.7	33.7	28.4	23.1	33.5	28.8	23.2	33.5	28.7		32.1	27.8		31.3	27.2		45
50	29.1	25.4	21.8	31.1	26.7	22.3	30.8	27	22.5	31.5	27.1		30.1	26.5		29.8	26.1		50
55	26.7	23.9	21	28.7	25.2	21.5	28.2	25.2	21.8	29.5	25.7	22.1	27.9	25.2	22.2	28.2	25		55
60	24.5	22.4	20.3	26.6	23.7	20.8	26.1	23.5	21.1	27.5	24.3	21.4	25.9	24.1	21.6	26.5	23.9	21.5	60
65	22.6	20.8	19.8	24.7	22.2	20.3	24	22	20.6	25.7	22.8	20.9	24.1	22.8	21	24.8	23	20.9	65
70	20.8	19.4	19.2	23	20.9	19.8	22.3	20.6	19.8	24	21.6	20.3	22.4	21.5	20.3	23.2	21.9	20.2	70
75	19.3	18.1	18.3	21.5	19.6	19.2	20.6	19.3	18.9	22.4	20.4	19.5	21	20.1	19.5	21.9	20.7	19.6	75
80	17.9	17	17.4	20.1	18.5	18.5	19.2	18.2	17.9	21	19.3	18.6	19.7	18.9	18.7	20.6	19.6	18.9	80
85	16.7	16	16.6	18.8	17.5	17.6	18	17.2	17	19.7	18.3	17.8	18.4	17.9	17.7	19.5	18.5	18.2	85
90	15.5	15.1	15.6	17.6	16.6	16.9	16.8	16.3	16.2	18.6	17.4	17	17.3	16.9	16.8	18.4	17.6	17.3	90
95	14.5	14.4		16.6	15.8	16.2	15.8	15.4	15.5	17.5	16.6	16.3	16.3	15.9	15.9	17.3	16.7	16.5	95
100				15.7	15.1	12.1	14.9	14.6	14.8	16.6	15.9	15.7	15.4	15	15.1	16.4	15.9	15.7	100
105				14.8	14.5		14	13.8	14.1	15.7	15.2	15.1	14.5	14.2	14.3	15.6	15.1	15	105
110				14	13.9		13.3	13.1	13.4	14.9	14.5	14.6	13.7	13.5	13.6	14.8	14.4	14.4	110
115							12.6	12.5		14.2	13.9	14	13	12.8	13	14.1	13.7	13.7	115
120							11.9	11.9		13.5	13.3		12.3	12.2	12.4	13.4	13.1	13.2	120
125							11.4	11.5		12.9	12.7		11.7	11.6	11.8	12.8	12.5	12.6	125
130										12.4	12.3		11.1	11.1	11.2	12.2	12	12.1	130
135										11.9	11.9		10.6	10.5		11.7	11.5	11.6	135
140										11.5			10.1	10.1		11.2	11	11.2	140
145													9.7	9.7		10.7	10.6	10.7	145
150													9.4	9.4		10.3	10.2		150
155													9.1			9.9	9.9		155
160																9.6	9.6		160
165																9.4	9.4		165
170																5.1			170

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GUAY

Lifting capacities
Forces de levage

TVNZK

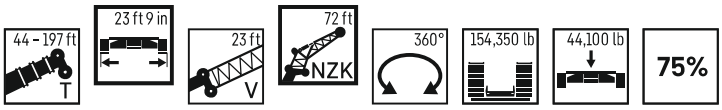


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	40 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
36	30																		36
38	29.9																		38
40	29.8			27.8															40
45	29.3			27.5			25.1			22.8									45
50	28.3			27.2			25			22.7									50
55	27.2	24.1		26.4			24.8			22.6			18.9			16.5			55
60	25.9	23.3		25.4	22.8		24.2	21.2		22.5			18.8			16.4			60
65	24.5	22.4	20.3	24.4	22.1	20	23.5	20.7		22.2	19.8		18.8	18.6		16.4			65
70	23.2	21.6	19.8	23.3	21.4	19.4	22.6	20.1		21.8	19.3		18.6	18.3		16.4			70
75	21.9	20.6	19.2	22.1	20.6	18.9	21.7	19.6	18.3	21.2	18.9	17.3	18.4	17.9		16.3	16.2		75
80	20.7	19.6	18.6	21	19.7	18.4	20.8	18.9	17.8	20.6	18.4	16.8	18	17.6	15.7	16.2	15.8		80
85	19.5	18.7	18	20	18.8	18	19.8	18.2	17.2	19.7	17.9	16.4	17.6	17.2	15.4	15.8	15.4	13.9	85
90	18.4	17.8	17.2	18.9	18	17.3	18.9	17.5	16.8	18.9	17.3	16	17.2	16.8	15.1	15.3	14.9	13.6	90
95	17.4	16.9	16.5	18	17.2	16.6	18	16.8	16.3	18	16.7	15.6	16.8	16.3	14.7	14.8	14.4	13.4	95
100	16.4	16.1	15.8	17.1	16.5	16	17.2	16.2	15.8	17.3	16.1	15.2	16.2	15.8	14.4	14.2	13.9	13.1	100
105	15.5	15.4	15.2	16.2	15.8	15.4	16.4	15.6	15.3	16.5	15.6	14.8	15.7	15.2	14.1	13.7	13.4	12.8	105
110	14.7	14.6	14.6	15.4	15.1	14.8	15.7	15	14.7	15.9	15	14.4	15.2	14.8	13.7	13.2	12.9	12.6	110
115	13.9	13.9	14	14.6	14.5	14.3	14.9	14.4	14.3	15.2	14.5	14	14.7	14.3	13.4	12.8	12.5	12.3	115
120	13.1	13.2	13.3	14	13.8	13.8	14.2	13.9	13.8	14.6	14	13.7	14.1	13.8	13.1	12.3	12.1	12	120
125	12.5	12.5	12.7	13.3	13.2	13.2	13.6	13.3	13.3	14	13.5	13.3	13.6	13.4	12.8	11.8	11.6	11.6	125
130	11.8	11.9	12.1	12.6	12.6	12.7	12.9	12.8	12.8	13.4	13	13	13.1	12.9	12.5	11.3	11.2	11.3	130
135	11.2	11.3	11.5	12.1	12	12.1	12.3	12.3	12.3	12.8	12.5	12.5	12.6	12.5	12.2	10.9	10.8	10.9	135
140	10.7	10.8	11	11.5	11.5	11.6	11.6	11.8	11.9	12.2	12	12.1	12.2	12	11.9	10.4	10.5	10.6	140
145	10.2	10.2	10.4	11	11	11.1	11.1	11.3	11.4	11.7	11.6	11.7	11.7	11.6	11.6	10	10.1	10.2	145
150	9.7	9.8	10	10.5	10.5	10.7	10.5	10.8	10.9	11.1	11.1	11.3	11.1	11.2	11.3	9.6	9.7	9.9	150
155	9.3	9.4	9.6	10	10.1	10.2	10	10.2	10.4	10.6	10.7	10.8	10.3	10.8	10.9	9.2	9.4	9.5	155
160	9	9		9.7	9.7	9.8	9.6	9.8	9.9	10.2	10.3	10.4	9.4	10.3	10.6	8.8	9	9.2	160
165	8.6	8.7		9.3	9.3	9.5	9.2	9.4	9.5	9.5	9.9	10	8.5	9.5	10	8.2	8.7	8.9	165
170	8.3	8.4		9	9	9.2	8.8	9	9.1	8.7	9.5	9.6	7.7	8.6	9.1	7.5	8.3	8.5	170
175	8	8.1		8.7	8.8		8.4	8.6	8.8	8	8.9	9.1	7	7.8	8.3	6.7	7.6	8.1	175
180	7.8	7.8		8.4	8.5		8.1	8.3	8.4	7.3	8.2	8.4	6.3	7	7.5	6	6.9	7.3	180
185				8.2	8.2		7.6	8	8.1	6.6	7.4	7.7	5.6	6.3	6.7	5.4	6.2	6.6	185
190				8	8		7	7.6		6	6.7	6.9	5	5.7	5.9	4.8	5.5	5.8	190
195				7.4			6.5	6.9		5.4	6.1	6.2	4.4	5	5.3	4.2	4.8	5.2	195
200							5.9	6.3		4.9	5.5		3.8	4.4	4.6	3.6	4.2	4.5	200
205							5.5	5.7		4.4	4.9		3.3	3.8	4	3.1	3.6	3.9	205
210							4.4			3.9	4.3		2.8	3.3	3.3	2.6	3.1	3.3	210
215										3.5	3.8		2.3	2.7		2.1	2.6	2.7	215
220										3.1			1.9	2.2		1.6	2.1	2.1	220
225													1.4	1.8			1.5		225

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Lifting capacities
Forces de levage

TVNZK



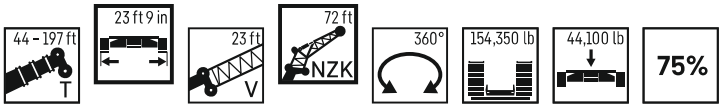
	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
15	20.3																		15
16	20.3																		16
17	20.3																		17
18	20.3			19.4															18
19	20.3			19.4															19
20	20.3			19.4															20
22	20.3			19.4			18.1												22
24	20.2			19.4			18.1												24
26	20.1			19.4			18.1			17.4									26
28	19.9			19.4			18.1			17.3			16.2						28
30	19.8			19.3			18.1			17.3			16.2						30
32	19.6			19.1			18.1			17.3			16.2			15.5			32
34	19.4			19			18			17.3			16.2			15.5			34
36	19.2			18.8			17.9			17.2			16.1			15.4			36
38	19			18.6			17.8			17.2			16.1			15.4			38
40	18.8			18.4			17.7			17.1			16			15.3			40
45	18.1	15.8		17.9			17.3			16.9			15.9			15.2			45
50	17.5	15.2		17.4			16.9			16.5			15.8			15.2			50
55	16.9	14.5		16.9	14.5		16.4	14.3		16.2			15.6			15			55
60	16.3	13.9		16.3	14		16	13.8		15.8	13.8		15.3			14.9			60
65	15.6	13.3	11.1	15.8	13.5		15.6	13.4		15.4	13.3		15	13.1		14.6	12.9		65
70	15	12.8	10.7	15.3	13		15.2	12.9		15	12.9		14.6	12.7		14.3	12.6		70
75	14.3	12.3	10.5	14.7	12.5	10.5	14.7	12.5	10.5	14.7	12.6		14.3	12.4		14	12.3		75
80	13.6	11.9	10.3	14.2	12.1	10.3	14.2	12.2	10.3	14.3	12.2	10.2	14	12.1	10.2	13.7	12.1		80
85	12.9	11.5	10.1	13.6	11.7	10.1	13.8	11.8	10.1	13.9	11.9	10.1	13.6	11.8	10	13.4	11.8	10	85
90	12.2	11.1	9.9	13	11.4	9.9	13.2	11.5	9.9	13.4	11.6	9.9	13.2	11.5	9.9	13.1	11.5	9.9	90
95	11.4	10.7	9.8	12.3	11	9.8	12.6	11.2	9.8	13	11.3	9.8	12.8	11.3	9.8	12.8	11.3	9.8	95
100	10.7	10.2	9.7	11.6	10.7	9.7	12	10.9	9.7	12.4	11	9.7	12.4	11	9.7	12.4	11	9.6	100
105	10.1	9.7	9.6	11	10.3	9.6	11.4	10.5	9.6	11.9	10.7	9.6	11.9	10.8	9.6	12	10.8	9.6	105
110	9.5	9.3	9.3	10.4	9.9	9.5	10.9	10.1	9.5	11.4	10.4	9.6	11.4	10.4	9.5	11.6	10.5	9.5	110
115	9	8.9	9	9.9	9.4	9.3	10.3	9.7	9.4	10.9	10	9.5	10.9	10.1	9.4	11.2	10.2	9.4	115
120	8.6	8.5	8.8	9.4	9.1	9.1	9.8	9.4	9.2	10.4	9.7	9.4	10.4	9.8	9.3	10.8	9.9	9.4	120
125	8.2	8.2		9	8.7	8.9	9.4	9.1	9	10	9.4	9.2	9.9	9.5	9.2	10.3	9.6	9.2	125
130	7.8	8.1		8.6	8.5	8.7	9	8.8	8.7	9.6	9.1	9	9.4	9.2	9	9.9	9.3	9.1	130
135				8.3	8.2		8.7	8.5	8.5	9.3	8.8	8.8	9	8.9	8.9	9.6	9.1	8.9	135
140				8	8		8.3	8.2	8.3	9	8.6	8.7	8.7	8.6	8.7	9.2	8.9	8.7	140
145				7.7			8.1	7.9		8.7	8.4	8.5	8.3	8.3	8.5	8.8	8.6	8.6	145
150							7.8	7.7		8.4	8.2	8.3	8	8	8.1	8.5	8.4	8.5	150
155							7.5	7.6		8.1	8		7.7	7.7	7.9	8.2	8.2	8.3	155
160										7.9	7.8		7.4	7.4	7.6	7.9	7.9	8	160
165										7.7	7.6		7.1	7.1		7.7	7.6	7.8	165
170										7.5	7.6		6.9	6.9		7.4	7.4	7.6	170
175													6.6	6.7		7.1	7.2	7.4	175
180													6.4	6.5		6.9	7		180
185													6.2			6.7	6.7		185
190																6.5	6.6		190
195																6.4	6.5		195
200																6.3			200

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GUAY

Lifting capacities
Forces de levage

TVNZK

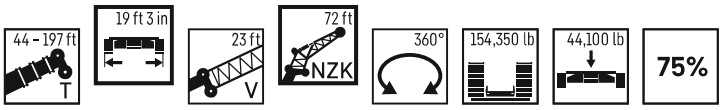


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	14.4																		38
40	14.4																		40
45	14.3			13.6			12.8												45
50	14.2			13.6			12.7												50
55	14.1			13.5			12.7			11.9			10.9						55
60	14.1			13.5			12.6			11.8			10.8			9.7			60
65	13.9			13.4			12.6			11.7			10.8			9.7			65
70	13.7			13.2			12.5			11.6			10.8			9.6			70
75	13.5	12.1		13.1	11.9		12.4			11.6			10.7			9.6			75
80	13.2	11.8		12.9	11.7		12.2	11.4		11.5			10.7			9.6			80
85	12.9	11.6		12.6	11.4		12.1	11.2		11.4	10.8		10.6			9.5			85
90	12.7	11.4		12.4	11.2		11.9	11		11.3	10.7		10.6			9.5			90
95	12.4	11.1	9.6	12.1	11	9.6	11.7	10.8		11.1	10.5		10.5	10		9.4	9		95
100	12.1	10.9	9.6	11.9	10.8	9.5	11.5	10.6	9.4	11	10.3		10.4	9.9		9.3	9		100
105	11.8	10.7	9.5	11.6	10.6	9.5	11.3	10.4	9.4	10.8	10.1	9.3	10.2	9.7		9.3	9		105
110	11.5	10.4	9.4	11.4	10.3	9.4	11	10.1	9.3	10.6	9.9	9.2	10.1	9.5		9.2	9		110
115	11.1	10.1	9.4	11.1	10.1	9.3	10.8	9.9	9.3	10.5	9.7	9.1	9.9	9.4	9	9.2	8.9	8.5	115
120	10.8	9.8	9.3	10.8	9.8	9.2	10.5	9.7	9.2	10.2	9.5	9	9.8	9.2	8.8	9.1	8.7	8.4	120
125	10.4	9.6	9.2	10.4	9.6	9.1	10.3	9.4	9	10	9.3	8.9	9.6	9	8.7	9	8.6	8.3	125
130	10	9.3	9	10.1	9.3	9	10	9.2	8.9	9.8	9.1	8.8	9.5	8.9	8.6	8.9	8.4	8.3	130
135	9.7	9.1	8.9	9.8	9.1	8.8	9.8	9	8.8	9.6	8.9	8.6	9.3	8.7	8.5	8.7	8.3	8.2	135
140	9.3	8.9	8.7	9.5	8.9	8.7	9.5	8.9	8.6	9.4	8.8	8.5	9.1	8.6	8.4	8.5	8.2	8.1	140
145	9	8.7	8.6	9.2	8.7	8.6	9.3	8.7	8.5	9.2	8.6	8.4	9	8.5	8.3	8.3	8.1	8	145
150	8.6	8.5	8.5	9	8.6	8.4	9	8.5	8.4	9	8.5	8.3	8.8	8.3	8.1	8.1	8	7.9	150
155	8.3	8.3	8.3	8.6	8.4	8.3	8.8	8.4	8.3	8.9	8.3	8.2	8.7	8.2	8.1	7.9	7.8	7.8	155
160	7.9	8	8.2	8.3	8.2	8.2	8.5	8.2	8.2	8.6	8.2	8.1	8.5	8	8	7.6	7.6	7.7	160
165	7.6	7.8	8	8	8.1	8.1	8.2	8.1	8.1	8.4	8	8	8.4	7.9	7.9	7.4	7.4	7.5	165
170	7.3	7.5	7.7	7.7	7.8	8	7.9	7.9	8	8.1	7.9	7.9	8.2	7.8	7.8	7.1	7.2	7.4	170
175	7	7.2	7.4	7.5	7.6	7.8	7.6	7.8	7.9	7.9	7.7	7.8	7.9	7.7	7.7	6.9	7	7.2	175
180	6.8	6.9	7.1	7.2	7.3	7.5	7.3	7.5	7.7	7.6	7.6	7.7	7.7	7.6	7.7	6.6	6.8	7	180
185	6.5	6.7		7	7.1	7.3	7.1	7.3	7.5	7.4	7.5	7.6	7.5	7.4	7.6	6.4	6.7	6.8	185
190	6.3	6.4		6.7	6.9	7	6.8	7	7.3	7.1	7.3	7.5	7.3	7.3	7.4	6.2	6.5	6.6	190
195	6.1	6.2		6.5	6.6	6.8	6.5	6.8	7	6.9	7.1	7.2	7	7.1	7.3	5.9	6.2	6.4	195
200	5.8	5.9		6.3	6.4		6.3	6.5	6.7	6.6	6.9	7	6.8	6.9	7.1	5.7	6	6.2	200
205	5.6	5.7		6.1	6.2		6	6.2	6.4	6.4	6.6	6.8	6.6	6.7	7	5.5	5.8	6	205
210	5.5	5.6		5.9	6		5.8	6	6.1	6.2	6.4	6.6	6.4	6.5	6.8	5.2	5.5	5.8	210
215	4.6			5.7	5.8		5.6	5.7	5.9	5.9	6.1	6.3	6.1	6.3	6.6	5	5.3	5.5	215
220				5.6	5.7		5.3	5.5		5.7	5.9	6.1	5.6	6.1	6.4	4.8	5.1	5.3	220
225				5.4			5.1	5.3		5.5	5.7	5.8	5.2	5.9	6.1	4.6	4.9	5.1	225
230							4.9	5.1		5.4	5.5	5.6	4.8	5.5	5.7	4.4	4.7	4.8	230
235							4.7			5.2	5.3		4.3	5	5.2	4	4.5	4.6	235
240							3.6			5	5.1		3.9	4.6	4.7	3.5	4.3	4.4	240
245										4.7	4.9		3.5	4.1		3.1	3.9	4.1	245
250										3.6			3.1	3.6		2.7	3.4	3.5	250
255													2.7	3.1		2.3	2.9		255
260													2.3	2.7		2	2.5		260
265																1.6	2.1		265
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Lifting capacities
Forces de levage

TVNZK

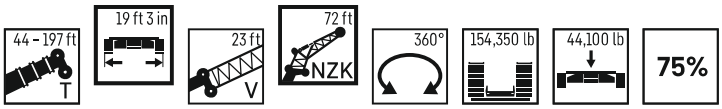


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
15	20.3																		15
16	20.3																		16
17	20.3																		17
18	20.3			19.4															18
19	20.3			19.4															19
20	20.3			19.4															20
22	20.3			19.4			18.1												22
24	20.2			19.4			18.1												24
26	20.1			19.4			18.1			17.4									26
28	19.9			19.4			18.1			17.3			16.2						28
30	19.8			19.3			18.1			17.3			16.2						30
32	19.6			19.1			18.1			17.3			16.2			15.5			32
34	19.4			19			18			17.3			16.2			15.5			34
36	19.2			18.8			17.9			17.2			16.1			15.4			36
38	19			18.6			17.8			17.2			16.1			15.4			38
40	18.8			18.4			17.7			17.1			16			15.3			40
45	18.1	15.8		17.9			17.3			16.9			15.9			15.2			45
50	17.5	15.2		17.4			16.9			16.5			15.8			15.2			50
55	16.9	14.5		16.9	14.5		16.4	14.3		16.2			15.6			15			55
60	16.3	13.9		16.3	14		16	13.8		15.8	13.8		15.3			14.9			60
65	15.6	13.3	11.1	15.8	13.5		15.6	13.4		15.4	13.3		15	13.1		14.6	12.9		65
70	15	12.8	10.7	15.3	13		15.2	12.9		15	12.9		14.6	12.7		14.3	12.6		70
75	14.3	12.3	10.5	14.7	12.5	10.5	14.7	12.5	10.5	14.7	12.6		14.3	12.4		14	12.3		75
80	13.6	11.9	10.3	14.2	12.1	10.3	14.2	12.2	10.3	14.3	12.2	10.2	14	12.1	10.2	13.7	12.1		80
85	12.9	11.5	10.1	13.6	11.7	10.1	13.8	11.8	10.1	13.9	11.9	10.1	13.6	11.8	10	13.4	11.8	10	85
90	12.2	11.1	9.9	13	11.4	9.9	13.2	11.5	9.9	13.4	11.6	9.9	13.2	11.5	9.9	13.1	11.5	9.9	90
95	11.4	10.7	9.8	12.3	11	9.8	12.6	11.2	9.8	13	11.3	9.8	12.8	11.3	9.8	12.8	11.3	9.8	95
100	10.7	10.2	9.7	11.6	10.7	9.7	12	10.9	9.7	12.4	11	9.7	12.4	11	9.7	12.4	11	9.6	100
105	10.1	9.7	9.6	11	10.3	9.6	11.4	10.5	9.6	11.9	10.7	9.6	11.9	10.8	9.6	12	10.8	9.6	105
110	9.5	9.3	9.3	10.4	9.9	9.5	10.9	10.1	9.5	11.4	10.4	9.6	11.4	10.4	9.5	11.6	10.5	9.5	110
115	9	8.9	9	9.9	9.4	9.3	10.3	9.7	9.4	10.9	10	9.5	10.9	10.1	9.4	11.2	10.2	9.4	115
120	8.6	8.5	8.8	9.4	9.1	9.1	9.8	9.4	9.2	10.4	9.7	9.4	10.4	9.8	9.3	10.8	9.9	9.4	120
125	8.2	8.2		9	8.7	8.9	9.4	9.1	9	10	9.4	9.2	9.9	9.5	9.2	10.3	9.6	9.2	125
130	7.8	8.1		8.6	8.5	8.7	9	8.8	8.7	9.6	9.1	9	9.4	9.2	9	9.9	9.3	9.1	130
135				8.3	8.2		8.7	8.5	8.5	9.3	8.8	8.8	9	8.9	8.9	9.6	9.1	8.9	135
140				8	8		8.3	8.2	8.3	9	8.6	8.7	8.7	8.6	8.7	9.2	8.9	8.7	140
145				7.7			8.1	7.9		8.7	8.4	8.5	8.3	8.3	8.5	8.8	8.6	8.6	145
150							7.8	7.7		8.4	8.2	8.3	8	8	8.1	8.5	8.4	8.5	150
155							7.5	7.6		8.1	8		7.7	7.7	7.9	8.2	8.2	8.3	155
160										7.9	7.8		7.4	7.4	7.6	7.9	7.9	8	160
165										7.7	7.6		7.1	7.1		7.7	7.6	7.8	165
170										7.5	7.6		6.9	6.9		7.4	7.4	7.6	170
175													6.6	6.7		7.1	7.2	7.4	175
180													6.4	6.5		6.9	7		180
185													6.2			6.7	6.7		185
190																6.5	6.6		190
195																6.4	6.5		195
200																6.3			200

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Lifting capacities
Forces de levage

TVNZK

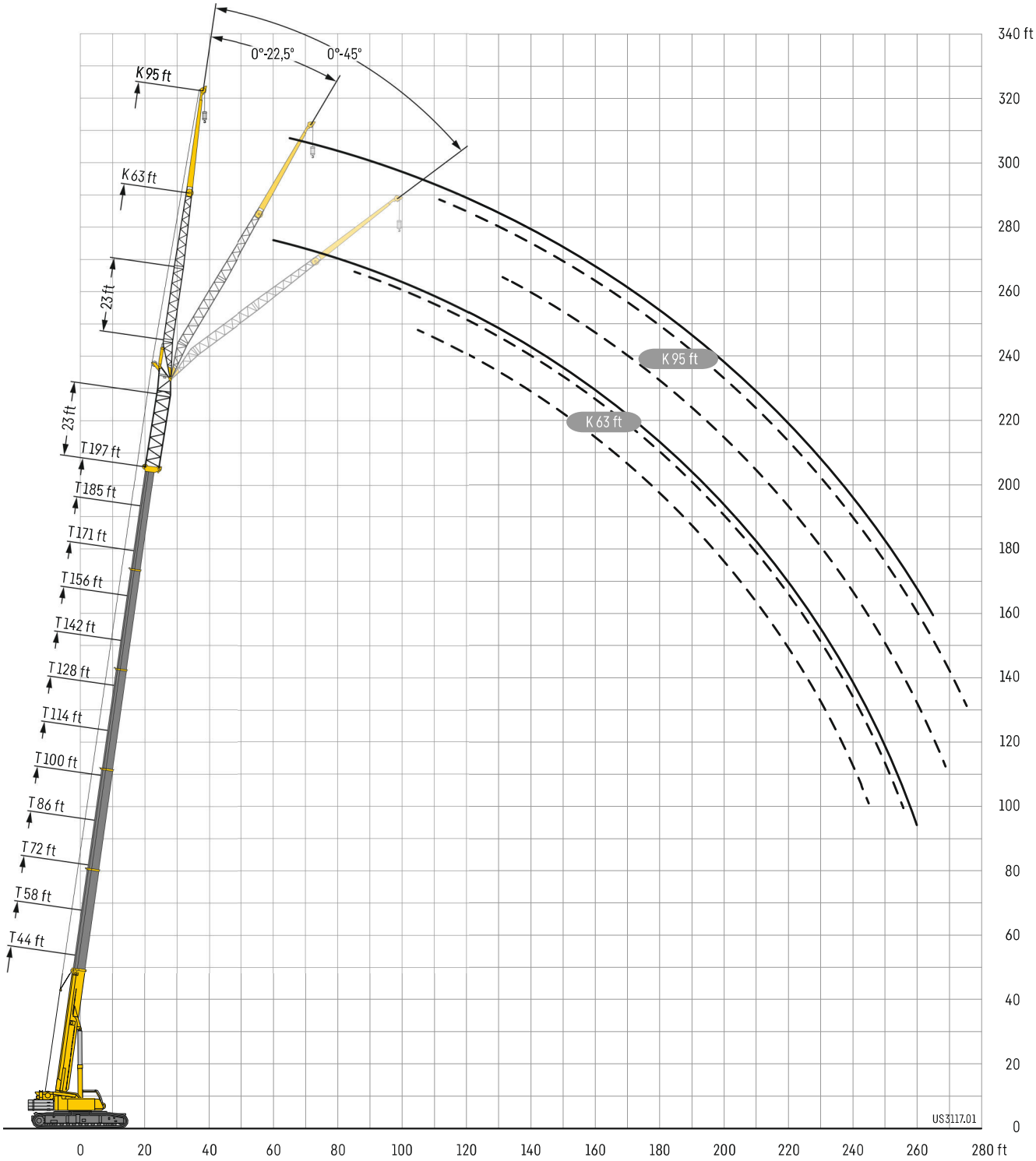


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	72 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	14.4																		38
40	14.4																		40
45	14.3			13.6			12.8												45
50	14.2			13.6			12.7												50
55	14.1			13.5			12.7			11.9			10.9						55
60	14.1			13.5			12.6			11.8			10.8			9.7			60
65	13.9			13.4			12.6			11.7			10.8			9.7			65
70	13.7			13.2			12.5			11.6			10.8			9.6			70
75	13.5	12.1		13.1	11.9		12.4			11.6			10.7			9.6			75
80	13.2	11.8		12.9	11.7		12.2	11.4		11.5			10.7			9.6			80
85	12.9	11.6		12.6	11.4		12.1	11.2		11.4	10.8		10.6			9.5			85
90	12.7	11.4		12.4	11.2		11.9	11		11.3	10.7		10.6			9.5			90
95	12.4	11.1	9.6	12.1	11	9.6	11.7	10.8		11.1	10.5		10.5	10		9.4	9		95
100	12.1	10.9	9.6	11.9	10.8	9.5	11.5	10.6	9.4	11	10.3		10.4	9.9		9.3	9		100
105	11.8	10.7	9.5	11.6	10.6	9.5	11.3	10.4	9.4	10.8	10.1	9.3	10.2	9.7		9.3	9		105
110	11.5	10.4	9.4	11.4	10.3	9.4	11	10.1	9.3	10.6	9.9	9.2	10.1	9.5		9.2	9		110
115	11.1	10.1	9.4	11.1	10.1	9.3	10.8	9.9	9.3	10.5	9.7	9.1	9.9	9.4	9	9.2	8.9	8.5	115
120	10.8	9.8	9.3	10.8	9.8	9.2	10.5	9.7	9.2	10.2	9.5	9	9.8	9.2	8.8	9.1	8.7	8.4	120
125	10.4	9.6	9.2	10.4	9.6	9.1	10.3	9.4	9	10	9.3	8.9	9.6	9	8.7	9	8.6	8.3	125
130	10	9.3	9	10.1	9.3	9	10	9.2	8.9	9.8	9.1	8.8	9.5	8.9	8.6	8.9	8.4	8.3	130
135	9.7	9.1	8.9	9.8	9.1	8.8	9.8	9	8.8	9.6	8.9	8.6	9.3	8.7	8.5	8.7	8.3	8.2	135
140	9.3	8.9	8.7	9.5	8.9	8.7	9.5	8.9	8.6	9.4	8.8	8.5	9.1	8.6	8.4	8.5	8.2	8.1	140
145	9	8.7	8.6	9.2	8.7	8.6	9.3	8.7	8.5	9.2	8.6	8.4	9	8.5	8.3	8.3	8.1	8	145
150	8.6	8.5	8.5	9	8.6	8.4	9	8.5	8.4	9	8.5	8.3	8.8	8.3	8.1	8.1	8	7.9	150
155	8.3	8.3	8.3	8.6	8.4	8.3	8.8	8.4	8.3	8.9	8.3	8.2	8.7	8.2	8.1	7.9	7.8	7.8	155
160	7.9	8	8.2	8.3	8.2	8.2	8.5	8.2	8.2	8.6	8.2	8.1	8.5	8	8	7.6	7.6	7.7	160
165	7.6	7.8	8	8	8.1	8.1	8.2	8.1	8.1	8.4	8	8	8.4	7.9	7.9	7.4	7.4	7.5	165
170	7.3	7.5	7.7	7.7	7.8	8	7.9	7.9	8	8.1	7.9	7.9	8.2	7.8	7.8	7.1	7.2	7.4	170
175	7	7.2	7.4	7.5	7.6	7.8	7.6	7.8	7.9	7.9	7.7	7.8	7.7	7.7	7.7	6.8	7	7.2	175
180	6.8	6.9	7.1	7.2	7.3	7.5	7.3	7.5	7.7	7.6	7.6	7.7	7	7.6	7.7	6.5	6.8	7	180
185	6.5	6.7		7	7.1	7.3	7.1	7.3	7.5	7.3	7.5	7.6	6.3	7.4	7.6	5.9	6.7	6.8	185
190	6.3	6.4		6.7	6.9	7	6.8	7	7.3	6.9	7.3	7.5	5.7	7.1	7.4	5.3	6.5	6.6	190
195	6.1	6.2		6.5	6.6	6.8	6.5	6.8	7	6.3	7.1	7.2	5.1	6.5	7.1	4.8	6	6.4	195
200	5.8	5.9		6.3	6.4		6.3	6.5	6.7	5.7	6.8	7	4.5	5.8	6.6	4.2	5.6	6.2	200
205	5.6	5.7		6.1	6.2		6	6.2	6.4	5.2	6.2	6.7	4	5.2	5.9	3.7	5	5.7	205
210	5.5	5.6		5.9	6		5.7	6	6.1	4.7	5.6	6.1	3.5	4.6	5.2	3.2	4.4	5.1	210
215	4.6			5.7	5.8		5.2	5.7	5.9	4.2	5.1	5.4	3	4.1	4.6	2.7	3.9	4.5	215
220				5.6	5.7		4.7	5.3		3.8	4.6	4.8	2.6	3.5	4	2.3	3.3	3.9	220
225				5.4			4.3	4.8		3.3	4	4.2	2.1	3	3.4	1.8	2.8	3.3	225
230							3.9	4.3		2.9	3.6	3.6	1.7	2.6	2.8		2.3	2.8	230
235							3.5			2.5	3.1			2.1	2.3		1.9	2.2	235
240							3.2			2.2	2.6			1.6	1.8			1.7	240
245										1.8	2.2								245
250										1.5									250

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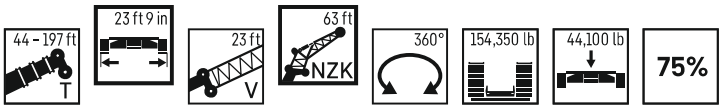
Lifting heights
Hauteurs de levage

TVNZK



Lifting capacities
Forces de levage

TVNZK

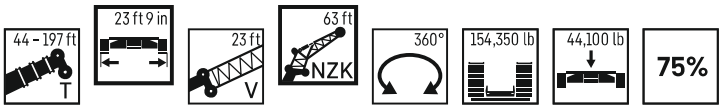


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
15	35																		15
16	35																		16
17	34.9																		17
18	34.9																		18
19	34.9			31.9															19
20	34.8			31.9															20
22	34.7			31.9			28.4												22
24	34.5			31.8			28.3												24
26	34.2			31.8			28.3			26.3									26
28	33.5			31.6			28.3			26.3									28
30	32.6			31.3			28.3			26.3									30
32	31.6			30.9			28.2			26.3			23.8			21.1			32
34	30.6			30.1			27.9			26.2			23.7			21.1			34
36	29.6			29.3			27.5			26.2			23.7			21			36
38	28.6	23.4		28.5			27.1			25.9			23.6			21			38
40	27.6	22.8		27.7			26.5			25.5			23.5			20.9			40
45	25.4	21.4		25.8	22.2		25			24.4			22.9			20.7			45
50	23.4	20.1		24	20.8		23.5			23.2			22.1			20.5			50
55	21.6	18.9		22.4	19.6		22.1	19.1		22.1	18.9		21.2			20.1			55
60	19.9	17.7	15.4	20.8	18.4	15.4	20.8	18.1		20.9	18		20.3	17.4		19.6	17.1		60
65	18.4	16.4	14.9	19.4	17.4	14.9	19.6	17.2	14.8	19.8	17.2		19.4	16.7		18.9	16.4		65
70	16.9	15.3	14.4	18.1	16.4	14.5	18.5	16.4	14.4	18.8	16.4		18.5	16		18.2	15.8		70
75	15.7	14.3	13.9	16.9	15.5	14.1	17.3	15.6	14	17.8	15.7	14	17.6	15.4	13.9	17.5	15.3		75
80	14.5	13.4	13.2	15.7	14.7	13.5	16.2	14.8	13.5	16.8	15	13.6	16.7	14.8	13.4	16.9	14.7	13.3	80
85	13.5	12.6	12.5	14.7	13.9	12.9	15.3	14.1	13	15.9	14.4	13.1	15.9	14.3	12.9	16.2	14.2	12.8	85
90	12.6	11.8	11.8	13.8	13.1	12.3	14.3	13.4	12.4	15.1	13.7	12.6	15	13.7	12.5	15.6	13.7	12.4	90
95	11.7	11.1	11.3	12.9	12.4	11.8	13.4	12.7	12	14.3	13.2	12.1	14.1	13.1	12.1	14.9	13.2	12.1	95
100	10.9	10.5	10.8	12.2	11.8	11.3	12.7	12.1	11.5	13.6	12.6	11.7	13.3	12.6	11.7	14.1	12.7	11.7	100
105	10.3	9.9	10.3	11.5	11.2	10.9	11.9	11.5	11	12.9	12.1	11.3	12.6	12.2	11.3	13.4	12.3	11.4	105
110	9.6	9.5	10	10.8	10.7	10.5	11.3	10.9	10.6	12.3	11.5	11	11.9	11.7	11	12.7	11.9	11.1	110
115	9.2	9.1	5.2	10.2	10.2	10.1	10.7	10.4	10.2	11.7	11.1	10.6	11.2	11.2	10.7	12.1	11.5	10.8	115
120	8.7	8.8		9.7	9.8	9.9	10.1	9.9	9.8	11.1	10.6	10.3	10.6	10.6	10.4	11.5	11.1	10.5	120
125				9.2	9.4		9.7	9.5	9.5	10.6	10.2	10	10	10.1	10.1	10.9	10.6	10.3	125
130				8.9	9.1		9.2	9.2	9.3	10.1	9.8	9.7	9.6	9.7	9.7	10.4	10.2	10	130
135				8.5			8.9	8.9		9.7	9.5	9.5	9.2	9.3	9.4	9.9	9.8	9.7	135
140							8.5	8.6		9.3	9.2	9.3	8.8	8.9	9	9.5	9.4	9.4	140
145							8.2	8.3		9	8.9		8.4	8.5	8.6	9.2	9	9.1	145
150							8			8.7	8.7		8.1	8.2	8.3	8.8	8.7	8.8	150
155										8.5	8.5		7.8	7.9	8	8.5	8.4	8.5	155
160										8.3	8.4		7.5	7.6		8.2	8.2	8.3	160
165													7.2	7.3		7.9	7.9	8	165
170													7	7.1		7.6	7.6		170
175													6.8	6.9		7.4	7.4		175
180																7.2	7.2		180
185																7	7		185
190																6.8			190

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Lifting capacities
Forces de levage

TVNZK

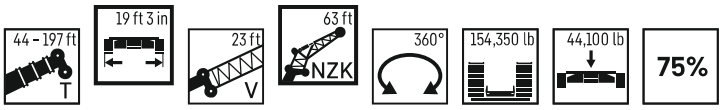


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	19.1																		38
40	19.1																		40
45	18.9			17.8			16.4												45
50	18.8			17.6			16.3												50
55	18.6			17.5			16.2			14.9			13.5						55
60	18.4			17.4			16			14.8			13.4			11.7			60
65	17.9	15.8		17.2			15.9			14.7			13.3			11.7			65
70	17.4	15.3		16.9			15.8			14.6			13.2			11.5			70
75	16.9	14.8		16.4	14.6		15.5	14		14.5			13.2			11.4			75
80	16.3	14.4		16	14.1		15.2	13.7		14.3	13.2		13.1			11.3			80
85	15.8	13.9	12.6	15.5	13.7	12.4	14.9	13.3		14.1	12.9		13	12.1		11.1	10.4		85
90	15.2	13.5	12.2	15	13.3	12.1	14.5	12.9		13.9	12.6		12.8	11.9		11	10.4		90
95	14.6	13	11.9	14.6	12.9	11.8	14.1	12.6	11.6	13.5	12.2		12.6	11.7		11	10.4		95
100	14.1	12.6	11.6	14.1	12.5	11.5	13.7	12.2	11.3	13.2	11.9	11.1	12.5	11.5	10.7	10.9	10.4		100
105	13.5	12.2	11.3	13.6	12.1	11.2	13.3	11.9	11	12.9	11.6	10.8	12.2	11.2	10.5	10.8	10.3	9.5	105
110	12.9	11.8	11	13.1	11.8	11	12.9	11.6	10.8	12.5	11.3	10.6	11.9	10.9	10.3	10.6	10.1	9.4	110
115	12.3	11.4	10.7	12.6	11.4	10.7	12.4	11.3	10.5	12.2	11.1	10.4	11.7	10.7	10.1	10.4	9.9	9.3	115
120	11.7	11.1	10.5	12	11.1	10.5	12	11	10.3	11.9	10.8	10.2	11.4	10.5	9.9	10.1	9.8	9.2	120
125	11.1	10.7	10.2	11.5	10.8	10.2	11.5	10.7	10.1	11.5	10.5	10	11.1	10.2	9.8	9.8	9.6	9.1	125
130	10.6	10.3	10	11	10.4	10	11.1	10.4	9.9	11.2	10.2	9.8	10.9	10	9.6	9.6	9.4	9	130
135	10	10	9.8	10.5	10.1	9.8	10.6	10.1	9.8	10.8	10	9.6	10.6	9.8	9.5	9.3	9.1	8.9	135
140	9.6	9.6	9.6	10.1	9.8	9.7	10.2	9.8	9.6	10.4	9.8	9.5	10.3	9.6	9.3	9	8.9	8.8	140
145	9.2	9.3	9.3	9.6	9.5	9.5	9.8	9.6	9.4	10	9.6	9.4	9.9	9.4	9.2	8.7	8.7	8.6	145
150	8.8	8.9	9	9.2	9.2	9.2	9.5	9.3	9.3	9.6	9.3	9.2	9.6	9.2	9.1	8.4	8.4	8.4	150
155	8.4	8.5	8.7	8.9	8.9	9	9.1	9	9.1	9.3	9.1	9.1	9.3	9.1	9	8.2	8.2	8.3	155
160	8.1	8.2	8.4	8.6	8.6	8.7	8.8	8.8	8.9	9	8.9	8.9	9	8.8	8.9	7.9	7.9	8	160
165	7.7	7.9	8.1	8.2	8.3	8.5	8.4	8.5	8.6	8.7	8.7	8.7	8.7	8.7	8.7	7.6	7.7	7.8	165
170	7.5	7.6	7.7	7.9	8	8.2	8.1	8.2	8.4	8.4	8.4	8.5	8.5	8.5	8.5	7.3	7.5	7.6	170
175	7.1	7.3	7.4	7.7	7.7	7.9	7.7	8	8.1	8.1	8.2	8.3	8.2	8.2	8.4	7	7.3	7.4	175
180	6.9	7		7.4	7.5	7.6	7.4	7.7	7.9	7.8	7.9	8.1	8	8	8.2	6.8	7	7.2	180
185	6.6	6.7		7.1	7.2	7.4	7.1	7.4	7.6	7.5	7.7	7.9	7.7	7.8	7.9	6.5	6.8	7	185
190	6.4	6.5		6.9	7	7.1	6.8	7.1	7.3	7.3	7.4	7.6	7.4	7.6	7.7	6.3	6.5	6.7	190
195	6.1	6.2		6.6	6.7		6.6	6.8	6.9	7	7.2	7.4	7.2	7.3	7.5	6	6.3	6.5	195
200	6	6.1		6.4	6.5		6.3	6.5	6.6	6.8	6.9	7.1	6.9	7.1	7.3	5.8	6	6.2	200
205	5.8			6.2	6.3		6.1	6.2	6.4	6.5	6.7	6.8	6.7	6.9	7.1	5.5	5.8	6	205
210				6.1	6.1		5.8	6	6.1	6.3	6.4	6.5	6.3	6.7	6.8	5.3	5.6	5.7	210
215				5.9	6		5.6	5.7		6	6.2	6.3	5.8	6.4	6.6	5.1	5.3	5.5	215
220				3.5			5.3	5.5		5.8	5.9	6.1	5.3	6	6.2	4.9	5.1	5.3	220
225							5.1	5.2		5.6	5.8		4.9	5.5	5.7	4.6	4.9	5	225
230							4.6			5.4	5.5		4.4	5	5.1	4.1	4.7	4.8	230
235										5.1	5.4		4	4.5	4.6	3.6	4.3	4.5	235
240										4.4	5		3.5	4		3.2	3.8	4	240
245										2.1			3.1	3.5		2.8	3.3	3.4	245
250													2.7	3		2.4	2.9		250
255													1.7			2	2.4		255
260																1.6			260

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Lifting capacities
Forces de levage

TVNZK

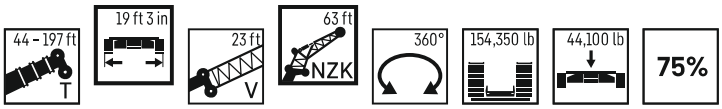


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
15	35																		15
16	35																		16
17	34.9																		17
18	34.9																		18
19	34.9			31.9															19
20	34.8			31.9															20
22	34.7			31.9			28.4												22
24	34.5			31.8			28.3												24
26	34.2			31.8			28.3			26.3									26
28	33.5			31.6			28.3			26.3									28
30	32.6			31.3			28.3			26.3									30
32	31.6			30.9			28.2			26.3			23.8			21.1			32
34	30.6			30.1			27.9			26.2			23.7			21.1			34
36	29.6			29.3			27.5			26.2			23.7			21			36
38	28.6	23.4		28.5			27.1			25.9			23.6			21			38
40	27.6	22.8		27.7			26.5			25.5			23.5			20.9			40
45	25.4	21.4		25.8	22.2		25			24.4			22.9			20.7			45
50	23.4	20.1		24	20.8		23.5			23.2			22.1			20.5			50
55	21.6	18.9		22.4	19.6		22.1	19.1		22.1	18.9		21.2			20.1			55
60	19.9	17.7	15.4	20.8	18.4	15.4	20.8	18.1		20.9	18		20.3	17.4		19.6	17.1		60
65	18.4	16.4	14.9	19.4	17.4	14.9	19.6	17.2	14.8	19.8	17.2		19.4	16.7		18.9	16.4		65
70	16.9	15.3	14.4	18.1	16.4	14.5	18.5	16.4	14.4	18.8	16.4		18.5	16		18.2	15.8		70
75	15.7	14.3	13.9	16.9	15.5	14.1	17.3	15.6	14	17.8	15.7	14	17.6	15.4	13.9	17.5	15.3		75
80	14.5	13.4	13.2	15.7	14.7	13.5	16.2	14.8	13.5	16.8	15	13.6	16.7	14.8	13.4	16.9	14.7	13.3	80
85	13.5	12.6	12.5	14.7	13.9	12.9	15.3	14.1	13	15.9	14.4	13.1	15.9	14.3	12.9	16.2	14.2	12.8	85
90	12.6	11.8	11.8	13.8	13.1	12.3	14.3	13.4	12.4	15.1	13.7	12.6	15	13.7	12.5	15.6	13.7	12.4	90
95	11.7	11.1	11.3	12.9	12.4	11.8	13.4	12.7	12	14.3	13.2	12.1	14.1	13.1	12.1	14.9	13.2	12.1	95
100	10.9	10.5	10.8	12.2	11.8	11.3	12.7	12.1	11.5	13.6	12.6	11.7	13.3	12.6	11.7	14.1	12.7	11.7	100
105	10.3	9.9	10.3	11.5	11.2	10.9	11.9	11.5	11	12.9	12.1	11.3	12.6	12.2	11.3	13.4	12.3	11.4	105
110	9.6	9.5	10	10.8	10.7	10.5	11.3	10.9	10.6	12.3	11.5	11	11.9	11.7	11	12.7	11.9	11.1	110
115	9.2	9.1	5.2	10.2	10.2	10.1	10.7	10.4	10.2	11.7	11.1	10.6	11.2	11.2	10.7	12.1	11.5	10.8	115
120	8.7	8.8		9.7	9.8	9.9	10.1	9.9	9.8	11.1	10.6	10.3	10.6	10.6	10.4	11.5	11.1	10.5	120
125				9.2	9.4		9.7	9.5	9.5	10.6	10.2	10	10	10.1	10.1	10.9	10.6	10.3	125
130				8.9	9.1		9.2	9.2	9.3	10.1	9.8	9.7	9.6	9.7	9.7	10.4	10.2	10	130
135				8.5			8.9	8.9		9.7	9.5	9.5	9.2	9.3	9.4	9.9	9.8	9.7	135
140							8.5	8.6		9.3	9.2	9.3	8.8	8.9	9	9.5	9.4	9.4	140
145							8.2	8.3		9	8.9		8.4	8.5	8.6	9.2	9	9.1	145
150							8			8.7	8.7		8.1	8.2	8.3	8.8	8.7	8.8	150
155										8.5	8.5		7.8	7.9	8	8.5	8.4	8.5	155
160										8.3	8.4		7.5	7.6		8.2	8.2	8.3	160
165													7.2	7.3		7.9	7.9	8	165
170													7	7.1		7.6	7.6		170
175													6.8	6.9		7.4	7.4		175
180																7.2	7.2		180
185																7	7		185
190																6.8			190

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Lifting capacities
Forces de levage

TVNZK

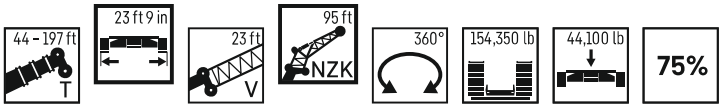


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	63 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	19.1																		38
40	19.1																		40
45	18.9			17.8			16.4												45
50	18.8			17.6			16.3												50
55	18.6			17.5			16.2			14.9			13.5						55
60	18.4			17.4			16			14.8			13.4			11.7			60
65	17.9	15.8		17.2			15.9			14.7			13.3			11.7			65
70	17.4	15.3		16.9			15.8			14.6			13.2			11.5			70
75	16.9	14.8		16.4	14.6		15.5	14		14.5			13.2			11.4			75
80	16.3	14.4		16	14.1		15.2	13.7		14.3	13.2		13.1			11.3			80
85	15.8	13.9	12.6	15.5	13.7	12.4	14.9	13.3		14.1	12.9		13	12.1		11.1	10.4		85
90	15.2	13.5	12.2	15	13.3	12.1	14.5	12.9		13.9	12.6		12.8	11.9		11	10.4		90
95	14.6	13	11.9	14.6	12.9	11.8	14.1	12.6	11.6	13.5	12.2		12.6	11.7		11	10.4		95
100	14.1	12.6	11.6	14.1	12.5	11.5	13.7	12.2	11.3	13.2	11.9	11.1	12.5	11.5	10.7	10.9	10.4		100
105	13.5	12.2	11.3	13.6	12.1	11.2	13.3	11.9	11	12.9	11.6	10.8	12.2	11.2	10.5	10.8	10.3	9.5	105
110	12.9	11.8	11	13.1	11.8	11	12.9	11.6	10.8	12.5	11.3	10.6	11.9	10.9	10.3	10.6	10.1	9.4	110
115	12.3	11.4	10.7	12.6	11.4	10.7	12.4	11.3	10.5	12.2	11.1	10.4	11.7	10.7	10.1	10.4	9.9	9.3	115
120	11.7	11.1	10.5	12	11.1	10.5	12	11	10.3	11.9	10.8	10.2	11.4	10.5	9.9	10.1	9.8	9.2	120
125	11.1	10.7	10.2	11.5	10.8	10.2	11.5	10.7	10.1	11.5	10.5	10	11.1	10.2	9.8	9.8	9.6	9.1	125
130	10.6	10.3	10	11	10.4	10	11.1	10.4	9.9	11.2	10.2	9.8	10.9	10	9.6	9.6	9.4	9	130
135	10	10	9.8	10.5	10.1	9.8	10.6	10.1	9.8	10.8	10	9.6	10.6	9.8	9.5	9.3	9.1	8.9	135
140	9.6	9.6	9.6	10.1	9.8	9.7	10.2	9.8	9.6	10.4	9.8	9.5	10.3	9.6	9.3	9	8.9	8.8	140
145	9.2	9.3	9.3	9.6	9.5	9.5	9.8	9.6	9.4	10	9.6	9.4	9.9	9.4	9.2	8.7	8.7	8.6	145
150	8.8	8.9	9	9.2	9.2	9.2	9.5	9.3	9.3	9.6	9.3	9.2	9.6	9.2	9.1	8.4	8.4	8.4	150
155	8.4	8.5	8.7	8.9	8.9	9	9.1	9	9.1	9.3	9.1	9.1	9.3	9.1	9	8.2	8.2	8.3	155
160	8.1	8.2	8.4	8.6	8.6	8.7	8.8	8.8	8.9	9	8.9	8.9	9	8.8	8.9	7.9	7.9	8	160
165	7.7	7.9	8.1	8.2	8.3	8.5	8.4	8.5	8.6	8.7	8.7	8.7	8.7	8.7	8.7	7.6	7.7	7.8	165
170	7.5	7.6	7.7	7.9	8	8.2	8.1	8.2	8.4	8.4	8.4	8.5	8.1	8.5	8.5	7.3	7.5	7.6	170
175	7.1	7.3	7.4	7.7	7.7	7.9	7.7	8	8.1	8.1	8.2	8.3	7.4	8.2	8.4	6.9	7.3	7.4	175
180	6.9	7		7.4	7.5	7.6	7.4	7.7	7.9	7.7	7.9	8.1	6.6	7.9	8.2	6.3	7	7.2	180
185	6.6	6.7		7.1	7.2	7.4	7.1	7.4	7.6	7.2	7.7	7.9	6	7.3	7.8	5.7	6.7	7	185
190	6.4	6.5		6.9	7	7.1	6.8	7.1	7.3	6.5	7.4	7.6	5.4	6.6	7.3	5.1	6.3	6.7	190
195	6.1	6.2		6.6	6.7		6.6	6.8	6.9	6	6.9	7.3	4.8	5.9	6.5	4.5	5.7	6.3	195
200	6	6.1		6.4	6.5		6.3	6.5	6.6	5.4	6.3	6.7	4.2	5.3	5.8	3.9	5	5.7	200
205	5.8			6.2	6.3		5.8	6.2	6.4	4.9	5.7	6	3.7	4.6	5.1	3.4	4.4	5	205
210				6.1	6.1		5.3	5.9	5.9	4.3	5.1	5.3	3.1	4.1	4.5	2.9	3.9	4.4	210
215				5.9	6		4.9	5.3		3.9	4.5	4.7	2.7	3.5	3.9	2.4	3.3	3.8	215
220				3.5			4.4	4.8		3.4	4	4.1	2.2	3	3.3	1.9	2.8	3.2	220
225							4	4.3		3	3.5		1.8	2.5	2.7	1.3	2.3	2.6	225
230							3.6			2.6	3			2	2.1		1.8	2.1	230
235										2.2	2.6			1.5	1.5			1.5	235
240										1.8	2.1								240
245										1.5									245

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Lifting capacities
Forces de levage

TVNZK

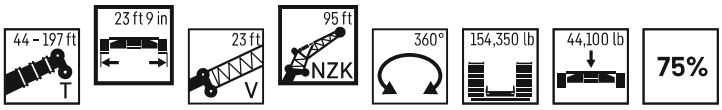


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	15.2																		22
24	15.2																		24
26	15.2			14.4															26
28	15.1			14.4			13.4												28
30	15.1			14.4			13.3												30
32	15.1			14.3			13.3			12.7									32
34	15			14.3			13.3			12.6			11.8						34
36	15			14.2			13.2			12.6			11.7						36
38	14.9			14.2			13.2			12.5			11.7			11.2			38
40	14.8			14.1			13.1			12.5			11.7			11.1			40
45	14.5			14			13			12.4			11.6			11.1			45
50	14			13.7			12.9			12.4			11.5			11			50
55	13.5			13.3			12.7			12.3			11.5			10.9			55
60	12.9	10.6		12.8			12.3			12.1			11.4			10.9			60
65	12.3	10.1		12.3	10		12	9.8		11.8			11.2			10.8			65
70	11.7	9.6		11.8	9.6		11.6	9.5		11.4			11			10.7			70
75	11.1	9.2		11.3	9.2		11.2	9.1		11.1	9.1		10.7			10.5			75
80	10.6	8.8		10.8	8.9		10.7	8.8		10.7	8.8		10.4	8.7		10.2	8.6		80
85	10	8.5	7.1	10.3	8.6		10.3	8.5		10.3	8.5		10.1	8.4		10	8.4		85
90	9.5	8.1	6.9	9.8	8.3		9.9	8.3		10	8.3		9.8	8.2		9.7	8.2		90
95	9.1	7.8	6.7	9.4	8	6.7	9.5	8	6.7	9.6	8		9.5	8		9.4	8		95
100	8.7	7.6	6.5	9	7.7	6.6	9.1	7.8	6.6	9.3	7.8	6.5	9.2	7.8	6.5	9.2	7.8		100
105	8.3	7.3	6.4	8.7	7.5	6.4	8.8	7.5	6.4	9	7.6	6.4	9	7.6	6.4	8.9	7.6	6.3	105
110	7.9	7.1	6.3	8.3	7.2	6.3	8.5	7.3	6.3	8.7	7.4	6.3	8.7	7.4	6.3	8.7	7.4	6.3	110
115	7.6	6.8	6.2	8	7	6.2	8.2	7.1	6.2	8.4	7.2	6.2	8.4	7.2	6.2	8.5	7.2	6.2	115
120	7.2	6.7	6.1	7.7	6.8	6.1	7.9	6.9	6.1	8.1	7	6.1	8.2	7.1	6.1	8.3	7.1	6.1	120
125	6.9	6.5	6	7.4	6.6	6	7.6	6.8	6.1	7.9	6.9	6.1	7.9	6.9	6	8	6.9	6	125
130	6.5	6.3	6	7	6.5	6	7.3	6.6	6	7.6	6.7	6	7.7	6.8	6	7.8	6.8	5.9	130
135	6.2	6.1	6	6.7	6.4	6	7	6.5	5.9	7.3	6.6	5.9	7.4	6.6	5.9	7.6	6.7	5.9	135
140	6	5.9	6	6.4	6.2	6	6.8	6.3	5.9	7.1	6.4	5.9	7.2	6.5	5.9	7.4	6.5	5.8	140
145	5.7	5.7	6	6.2	6	6	6.5	6.2	5.9	6.8	6.3	5.9	7	6.4	5.8	7.1	6.4	5.8	145
150	5.4	5.5		5.9	5.8	6	6.3	6.1	5.9	6.6	6.2	5.8	6.7	6.2	5.8	6.9	6.3	5.8	150
155				5.7	5.7	6	6.1	5.9	5.9	6.4	6.1	5.8	6.5	6.1	5.8	6.7	6.2	5.8	155
160				5.5	5.5		5.8	5.7	5.9	6.2	5.9	5.8	6.3	6	5.8	6.5	6.1	5.7	160
165				5.3	5.4		5.6	5.6		5.9	5.8	5.8	6.1	5.9	5.8	6.3	6	5.7	165
170							5.4	5.5		5.8	5.6	5.8	5.9	5.7	5.8	6.2	5.8	5.7	170
175							5.3	5.4		5.6	5.5	5.8	5.7	5.6	5.7	6	5.7	5.7	175
180							5.2			5.4	5.4		5.5	5.5	5.7	5.8	5.6	5.7	180
185										5.3	5.3		5.3	5.3	5.5	5.7	5.5	5.7	185
190										5.2	5.3		5.1	5.2		5.5	5.4	5.6	190
195										5.1			4.9	5		5.3	5.3	5.5	195
200													4.7	4.8		5.1	5.2	5.4	200
205													4.6	4.7		5	5		205
210													4.5			4.8	4.9		210
215																4.7	4.8		215
220																4.6	4.7		220

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Lifting capacities
Forces de levage

TVNZK

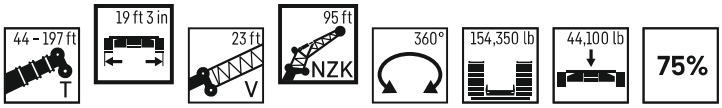


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	10.3			9.9															45
50	10.3			9.8															50
55	10.2			9.8			9.2												55
60	10.2			9.7			9.2			8.6			8						60
65	10.1			9.6			9.1			8.6			8			7.2			65
70	10			9.6			9.1			8.5			8			7.2			70
75	9.9			9.5			9			8.5			7.9			7.1			75
80	9.8			9.5			9			8.4			7.9			7.1			80
85	9.6	8.2		9.4			8.9			8.4			7.9			7			85
90	9.4	8		9.2			8.9	7.8		8.3			7.8			6.9			90
95	9.2	7.8		9	7.8		8.8	7.6		8.3			7.8			6.8			95
100	9	7.7		8.9	7.6		8.6	7.5		8.2	7.3		7.7			6.8			100
105	8.8	7.5		8.7	7.5		8.5	7.3		8.1	7.2		7.6	7		6.7			105
110	8.6	7.3		8.5	7.3		8.3	7.2		8	7.1		7.5	6.9		6.6	6.4		110
115	8.4	7.2	6.1	8.3	7.1	6.1	8.1	7		7.8	6.9		7.5	6.8		6.6	6.4		115
120	8.2	7	6.1	8.1	7	6	7.9	6.9	6	7.7	6.8		7.4	6.7		6.5	6.3		120
125	8	6.9	6	7.9	6.9	5.9	7.8	6.8	5.9	7.6	6.7	5.8	7.3	6.6	5.7	6.5	6.3		125
130	7.7	6.8	5.9	7.7	6.8	5.9	7.6	6.7	5.8	7.4	6.6	5.8	7.2	6.5	5.7	6.5	6.2	5.6	130
135	7.5	6.6	5.9	7.5	6.6	5.8	7.4	6.6	5.8	7.3	6.5	5.7	7	6.4	5.6	6.4	6.1	5.5	135
140	7.3	6.5	5.8	7.4	6.5	5.8	7.3	6.5	5.7	7.1	6.4	5.7	6.9	6.3	5.6	6.4	6.1	5.5	140
145	7.1	6.4	5.8	7.2	6.4	5.7	7.1	6.4	5.7	7	6.3	5.6	6.8	6.2	5.6	6.3	6	5.4	145
150	7	6.3	5.7	7	6.3	5.7	6.9	6.3	5.7	6.8	6.2	5.6	6.6	6.1	5.5	6.3	5.9	5.4	150
155	6.8	6.2	5.7	6.8	6.2	5.7	6.8	6.2	5.6	6.7	6.1	5.6	6.5	6	5.5	6.2	5.8	5.4	155
160	6.6	6.1	5.7	6.6	6.1	5.6	6.6	6.1	5.6	6.5	6	5.5	6.4	5.9	5.5	6	5.7	5.4	160
165	6.4	6	5.7	6.5	6	5.6	6.4	6	5.6	6.4	5.9	5.5	6.3	5.8	5.4	6	5.6	5.3	165
170	6.2	5.9	5.7	6.3	5.9	5.6	6.3	5.9	5.6	6.3	5.8	5.5	6.2	5.7	5.4	5.8	5.5	5.3	170
175	6.1	5.8	5.7	6.2	5.8	5.6	6.2	5.8	5.6	6.1	5.7	5.5	6	5.6	5.4	5.7	5.4	5.3	175
180	5.9	5.6	5.6	6	5.7	5.6	6	5.7	5.6	6	5.6	5.5	5.9	5.5	5.4	5.6	5.3	5.3	180
185	5.7	5.5	5.6	5.9	5.6	5.6	5.9	5.6	5.5	5.9	5.5	5.4	5.8	5.5	5.4	5.4	5.3	5.3	185
190	5.5	5.4	5.6	5.7	5.5	5.5	5.8	5.5	5.5	5.8	5.4	5.4	5.7	5.4	5.4	5.3	5.2	5.2	190
195	5.3	5.3	5.5	5.6	5.4	5.5	5.7	5.4	5.4	5.7	5.4	5.4	5.6	5.3	5.3	5.1	5.1	5.2	195
200	5.1	5.2	5.4	5.4	5.3	5.5	5.5	5.3	5.4	5.5	5.3	5.3	5.5	5.2	5.3	5	5	5.1	200
205	4.9	5.1	5.3	5.2	5.2	5.4	5.3	5.2	5.4	5.4	5.2	5.3	5.4	5.1	5.2	4.8	4.9	5	205
210	4.7	4.9		5.1	5.1	5.3	5.1	5.1	5.4	5.3	5.1	5.3	5.3	5.1	5.2	4.6	4.8	5	210
215	4.5	4.7		4.9	5	5.2	4.9	5	5.3	5.2	5.1	5.2	5.2	5	5.2	4.3	4.7	4.9	215
220	4.3	4.5		4.7	4.8	5	4.7	4.9	5.2	5	5	5.2	5.1	4.9	5.1	4.1	4.5	4.8	220
225	4.2	4.3		4.5	4.7		4.5	4.8	5	4.8	4.9	5.2	5	4.9	5.1	4	4.4	4.6	225
230	4	4.1		4.4	4.5		4.4	4.6	4.7	4.7	4.8	5.1	4.8	4.8	5.1	3.8	4.2	4.5	230
235	3.9			4.2	4.4		4.2	4.4	4.5	4.5	4.7	4.9	4.4	4.8	5	3.6	4	4.2	235
240				4.1	4.2		4	4.2		4.3	4.5	4.7	4	4.6	4.9	3.4	3.8	4	240
245				4	4.1		3.8	4		4.1	4.4	4.5	3.6	4.5	4.7	3.1	3.6	3.8	245
250				3.2			3.6	3.8		4	4.2	4.3	3.2	4.1	4.5	2.7	3.4	3.6	250
255							3.5	3.6		3.8	4		2.8	3.7	4	2.4	3.2	3.4	255
260							3.3			3.6	3.8		2.4	3.2	3.4	2	2.9	3.1	260
265										3.2	3.7		2	2.8	2.8	1.6	2.6	2.8	265
270										2.8	3.3		1.7	2.4			2.1	2.3	270
275													1.4	2			1.7		275
280														1.5					280

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Lifting capacities
Forces de levage

TVNZK

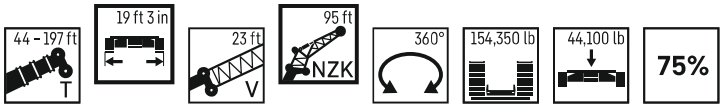


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	15.2																		22
24	15.2																		24
26	15.2			14.4															26
28	15.1			14.4			13.4												28
30	15.1			14.4			13.3												30
32	15.1			14.3			13.3			12.7									32
34	15			14.3			13.3			12.6			11.8						34
36	15			14.2			13.2			12.6			11.7						36
38	14.9			14.2			13.2			12.5			11.7			11.2			38
40	14.8			14.1			13.1			12.5			11.7			11.1			40
45	14.5			14			13			12.4			11.6			11.1			45
50	14			13.7			12.9			12.4			11.5			11			50
55	13.5			13.3			12.7			12.3			11.5			10.9			55
60	12.9	10.6		12.8			12.3			12.1			11.4			10.9			60
65	12.3	10.1		12.3	10		12	9.8		11.8			11.2			10.8			65
70	11.7	9.6		11.8	9.6		11.6	9.5		11.4			11			10.7			70
75	11.1	9.2		11.3	9.2		11.2	9.1		11.1	9.1		10.7			10.5			75
80	10.6	8.8		10.8	8.9		10.7	8.8		10.7	8.8		10.4	8.7		10.2	8.6		80
85	10	8.5	7.1	10.3	8.6		10.3	8.5		10.3	8.5		10.1	8.4		10	8.4		85
90	9.5	8.1	6.9	9.8	8.3		9.9	8.3		10	8.3		9.8	8.2		9.7	8.2		90
95	9.1	7.8	6.7	9.4	8	6.7	9.5	8	6.7	9.6	8		9.5	8		9.4	8		95
100	8.7	7.6	6.5	9	7.7	6.6	9.1	7.8	6.6	9.3	7.8	6.5	9.2	7.8	6.5	9.2	7.8		100
105	8.3	7.3	6.4	8.7	7.5	6.4	8.8	7.5	6.4	9	7.6	6.4	9	7.6	6.4	8.9	7.6	6.3	105
110	7.9	7.1	6.3	8.3	7.2	6.3	8.5	7.3	6.3	8.7	7.4	6.3	8.7	7.4	6.3	8.7	7.4	6.3	110
115	7.6	6.8	6.2	8	7	6.2	8.2	7.1	6.2	8.4	7.2	6.2	8.4	7.2	6.2	8.5	7.2	6.2	115
120	7.2	6.7	6.1	7.7	6.8	6.1	7.9	6.9	6.1	8.1	7	6.1	8.2	7.1	6.1	8.3	7.1	6.1	120
125	6.9	6.5	6	7.4	6.6	6	7.6	6.8	6.1	7.9	6.9	6.1	7.9	6.9	6	8	6.9	6	125
130	6.5	6.3	6	7	6.5	6	7.3	6.6	6	7.6	6.7	6	7.7	6.8	6	7.8	6.8	5.9	130
135	6.2	6.1	6	6.7	6.4	6	7	6.5	5.9	7.3	6.6	5.9	7.4	6.6	5.9	7.6	6.7	5.9	135
140	6	5.9	6	6.4	6.2	6	6.8	6.3	5.9	7.1	6.4	5.9	7.2	6.5	5.9	7.4	6.5	5.8	140
145	5.7	5.7	6	6.2	6	6	6.5	6.2	5.9	6.8	6.3	5.9	7	6.4	5.8	7.1	6.4	5.8	145
150	5.4	5.5		5.9	5.8	6	6.3	6.1	5.9	6.6	6.2	5.8	6.7	6.2	5.8	6.9	6.3	5.8	150
155				5.7	5.7	6	6.1	5.9	5.9	6.4	6.1	5.8	6.5	6.1	5.8	6.7	6.2	5.8	155
160				5.5	5.5		5.8	5.7	5.9	6.2	5.9	5.8	6.3	6	5.8	6.5	6.1	5.7	160
165				5.3	5.4		5.6	5.6		5.9	5.8	5.8	6.1	5.9	5.8	6.3	6	5.7	165
170							5.4	5.5		5.8	5.6	5.8	5.9	5.7	5.8	6.2	5.8	5.7	170
175							5.3	5.4		5.6	5.5	5.8	5.7	5.6	5.7	6	5.7	5.7	175
180							5.2			5.4	5.4		5.5	5.5	5.7	5.8	5.6	5.7	180
185										5.3	5.3		5.3	5.3	5.5	5.7	5.5	5.7	185
190										5.2	5.3		5.1	5.2		5.5	5.4	5.6	190
195										5.1			4.9	5		5.3	5.3	5.5	195
200													4.7	4.8		5.1	5.2	5.4	200
205													4.6	4.7		5	5		205
210													4.5			4.8	4.9		210
215																4.7	4.8		215
220																4.6	4.7		220

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Lifting capacities
Forces de levage

TVNZK

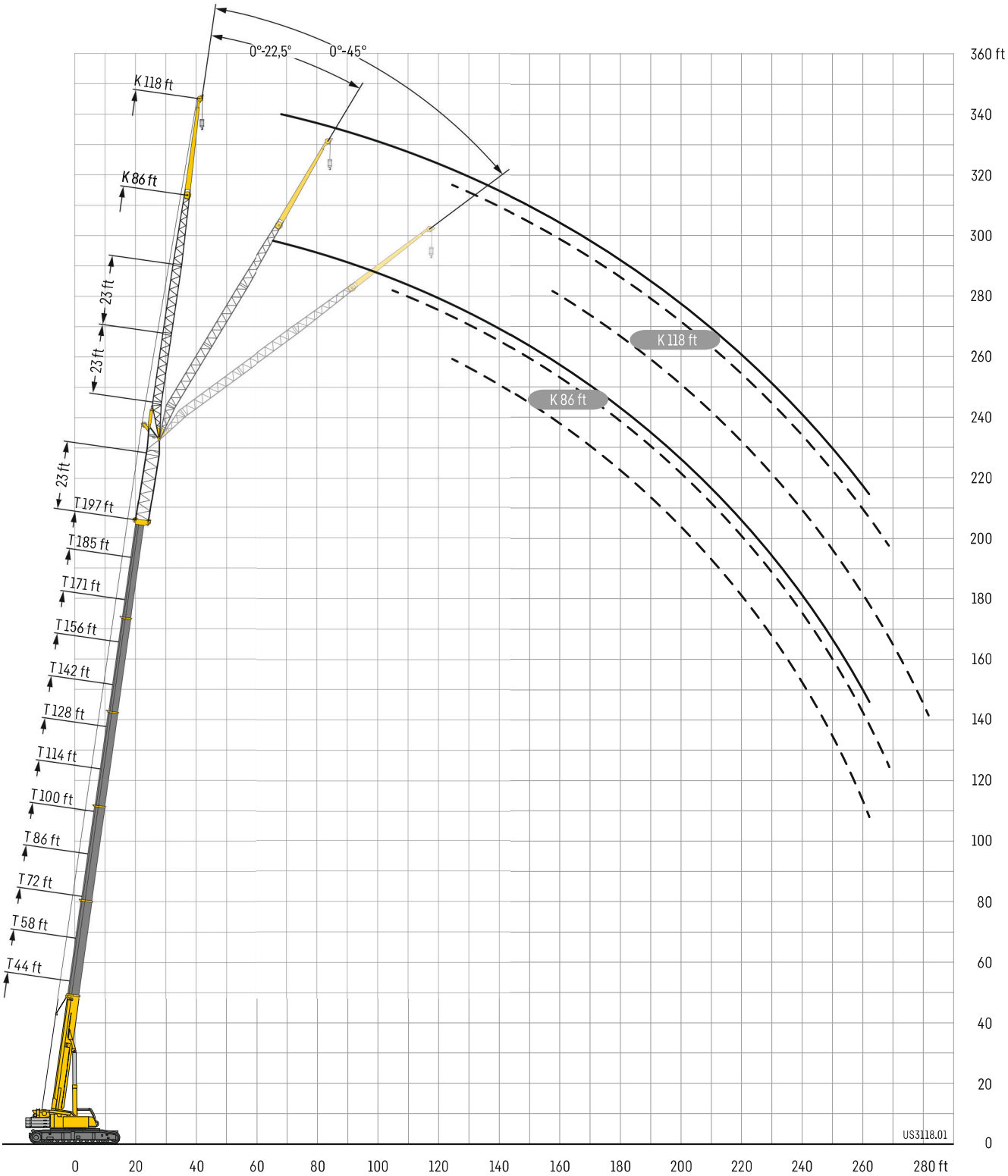


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	95 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	10.3			9.9															45
50	10.3			9.8															50
55	10.2			9.8			9.2												55
60	10.2			9.7			9.2			8.6			8						60
65	10.1			9.6			9.1			8.6			8			7.2			65
70	10			9.6			9.1			8.5			8			7.2			70
75	9.9			9.5			9			8.5			7.9			7.1			75
80	9.8			9.5			9			8.4			7.9			7.1			80
85	9.6	8.2		9.4			8.9			8.4			7.9			7			85
90	9.4	8		9.2			8.9	7.8		8.3			7.8			6.9			90
95	9.2	7.8		9	7.8		8.8	7.6		8.3			7.8			6.8			95
100	9	7.7		8.9	7.6		8.6	7.5		8.2	7.3		7.7			6.8			100
105	8.8	7.5		8.7	7.5		8.5	7.3		8.1	7.2		7.6	7		6.7			105
110	8.6	7.3		8.5	7.3		8.3	7.2		8	7.1		7.5	6.9		6.6	6.4		110
115	8.4	7.2	6.1	8.3	7.1	6.1	8.1	7		7.8	6.9		7.5	6.8		6.6	6.4		115
120	8.2	7	6.1	8.1	7	6	7.9	6.9	6	7.7	6.8		7.4	6.7		6.5	6.3		120
125	8	6.9	6	7.9	6.9	5.9	7.8	6.8	5.9	7.6	6.7	5.8	7.3	6.6	5.7	6.5	6.3		125
130	7.7	6.8	5.9	7.7	6.8	5.9	7.6	6.7	5.8	7.4	6.6	5.8	7.2	6.5	5.7	6.5	6.2	5.6	130
135	7.5	6.6	5.9	7.5	6.6	5.8	7.4	6.6	5.8	7.3	6.5	5.7	7	6.4	5.6	6.4	6.1	5.5	135
140	7.3	6.5	5.8	7.4	6.5	5.8	7.3	6.5	5.7	7.1	6.4	5.7	6.9	6.3	5.6	6.4	6.1	5.5	140
145	7.1	6.4	5.8	7.2	6.4	5.7	7.1	6.4	5.7	7	6.3	5.6	6.8	6.2	5.6	6.3	6	5.4	145
150	7	6.3	5.7	7	6.3	5.7	6.9	6.3	5.7	6.8	6.2	5.6	6.6	6.1	5.5	6.3	5.9	5.4	150
155	6.8	6.2	5.7	6.8	6.2	5.7	6.8	6.2	5.6	6.7	6.1	5.6	6.5	6	5.5	6.2	5.8	5.4	155
160	6.6	6.1	5.7	6.6	6.1	5.6	6.6	6.1	5.6	6.5	6	5.5	6.4	5.9	5.5	6	5.7	5.4	160
165	6.4	6	5.7	6.5	6	5.6	6.4	6	5.6	6.4	5.9	5.5	6.3	5.8	5.4	6	5.6	5.3	165
170	6.2	5.9	5.7	6.3	5.9	5.6	6.3	5.9	5.6	6.3	5.8	5.5	6.2	5.7	5.4	5.8	5.5	5.3	170
175	6.1	5.8	5.7	6.2	5.8	5.6	6.2	5.8	5.6	6.1	5.7	5.5	6	5.6	5.4	5.7	5.4	5.3	175
180	5.9	5.6	5.6	6	5.7	5.6	6	5.7	5.6	6	5.6	5.5	5.9	5.5	5.4	5.6	5.3	5.3	180
185	5.7	5.5	5.6	5.9	5.6	5.6	5.9	5.6	5.5	5.9	5.5	5.4	5.8	5.5	5.4	5.4	5.3	5.3	185
190	5.5	5.4	5.6	5.7	5.5	5.5	5.8	5.5	5.5	5.8	5.4	5.4	5.5	5.4	5.4	5	5.2	5.2	190
195	5.3	5.3	5.5	5.6	5.4	5.5	5.7	5.4	5.4	5.7	5.4	5.4	5.2	5.3	5.3	4.6	5.1	5.2	195
200	5.1	5.2	5.4	5.4	5.3	5.5	5.5	5.3	5.4	5.5	5.3	5.3	4.7	5.2	5.3	4.1	5	5.1	200
205	4.9	5.1	5.3	5.2	5.2	5.4	5.3	5.2	5.4	5.3	5.2	5.3	4.2	5.1	5.2	3.6	4.9	5	205
210	4.7	4.9		5.1	5.1	5.3	5.1	5.1	5.4	4.8	5.1	5.3	3.7	5	5.2	3.2	4.8	5	210
215	4.5	4.7		4.9	5	5.2	4.9	5	5.3	4.3	5.1	5.2	3.2	4.7	5.2	2.7	4.3	4.9	215
220	4.3	4.5		4.7	4.8	5	4.7	4.9	5.2	3.9	5	5.2	2.7	4.2	5	2.3	3.8	4.7	220
225	4.2	4.3		4.5	4.7		4.4	4.8	5	3.4	4.6	5.1	2.3	3.7	4.5	1.9	3.3	4.3	225
230	4	4.1		4.4	4.5		4	4.6	4.7	3	4.1	4.6	1.9	3.1	3.9		2.8	3.7	230
235	3.9			4.2	4.4		3.6	4.4	4.5	2.6	3.6	4.1	1.3	2.7	3.3		2.4	3.2	235
240				4.1	4.2		3.2	3.9		2.2	3.2	3.5		2.2	2.8		1.9	2.7	240
245				3.9	4.1		2.9	3.5		1.9	2.7	3		1.8	2.2		1.5	2.2	245
250				3.2			2.5	3		1.5	2.3	2.4			1.7			1.6	250
255							2.2	2.6			1.9								255
260							1.9				1.5								260

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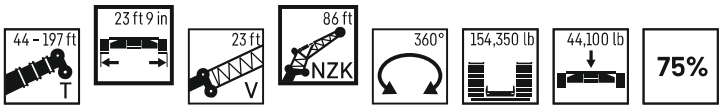
Lifting heights
Hauteurs de levage

TVNZK



Lifting capacities
Forces de levage

TVNZK



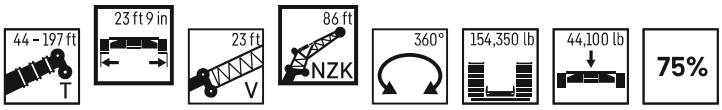
	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	22.6			20.2															22
24	22.5			20.2															24
26	22.5			20.2															26
28	22.4			20.2			18.2												28
30	22.2			20.2			18.2												30
32	21.9			20.1			18.1			16.9									32
34	21.6			20			18.1			16.9									34
36	21.2			19.9			18			16.8			15.3						36
38	20.7			19.8			17.9			16.7			15.3			14.4			38
40	20.2			19.6			17.8			16.7			15.2			14.3			40
45	18.9			19			17.6			16.5			15.1			14.2			45
50	17.7			18.2			17.2			16.3			14.9			14.1			50
55	16.5	13.3		17.4			16.6			16.1			14.8			14			55
60	15.4	12.6		16.5	12.5		15.9			15.5			14.6			13.8			60
65	14.4	11.9		15.6	11.9		15.1	11.7		14.9	11.6		14.2			13.7			65
70	13.5	11.2		14.7	11.3		14.4	11.2		14.3	11.2		13.7			13.4			70
75	12.6	10.6		13.8	10.8		13.7	10.7		13.7	10.7		13.2	10.5		12.9			75
80	11.7	10.1	8.3	13	10.3	8.3	13	10.3		13.1	10.3		12.7	10.1		12.5	10.1		80
85	10.9	9.6	8	12.3	9.8	8.1	12.3	9.9	8	12.5	9.9		12.2	9.8		12	9.8		85
90	10.2	9.2	7.8	11.5	9.4	7.9	11.7	9.5	7.9	11.9	9.6		11.7	9.5		11.6	9.5		90
95	9.6	8.9	7.6	10.8	9.1	7.7	11	9.2	7.7	11.3	9.3	7.7	11.2	9.2	7.6	11.2	9.2		95
100	9	8.5	7.4	10.2	8.8	7.5	10.4	8.9	7.5	10.8	9	7.5	10.7	9	7.5	10.7	9	7.5	100
105	8.5	8.2	7.3	9.6	8.5	7.4	9.9	8.6	7.4	10.3	8.7	7.4	10.3	8.7	7.4	10.3	8.7	7.4	105
110	8	8	7.2	9	8.2	7.3	9.4	8.4	7.3	9.8	8.5	7.3	9.8	8.5	7.3	9.9	8.6	7.2	110
115	7.6	7.7	7.1	8.6	8	7.1	8.9	8.1	7.2	9.3	8.3	7.2	9.4	8.3	7.2	9.6	8.3	7.2	115
120	7.2	7.4	7	8.2	7.7	7.1	8.5	7.9	7.1	8.9	8.1	7.1	9	8.1	7.1	9.2	8.2	7.1	120
125	6.9	7	7	7.8	7.4	7	8.2	7.7	7	8.6	7.8	7	8.7	7.9	7	8.9	8	7	125
130	6.6	6.7	6.8	7.4	7.2	7	7.8	7.4	6.9	8.2	7.6	6.9	8.4	7.7	6.9	8.6	7.8	6.9	130
135	6.3	6.4	6.7	7.1	6.9	6.9	7.5	7.1	6.9	7.9	7.4	6.9	8.1	7.5	6.9	8.3	7.6	6.9	135
140	6	6.2		6.8	6.6	6.7	7.2	6.9	6.8	7.6	7.1	6.9	7.8	7.2	6.8	8	7.4	6.8	140
145	5.8			6.5	6.4		6.9	6.7	6.7	7.3	6.9	6.8	7.5	7.1	6.8	7.8	7.2	6.8	145
150				6.2	6.2		6.7	6.5	6.6	7.1	6.7	6.7	7.2	6.9	6.7	7.5	7	6.7	150
155				6	6.1		6.4	6.3	6.5	6.8	6.5	6.6	6.9	6.7	6.6	7.3	6.8	6.7	155
160							6.2	6.1		6.6	6.4	6.5	6.6	6.5	6.5	7	6.6	6.6	160
165							6	6		6.4	6.2	6.5	6.3	6.3	6.4	6.8	6.5	6.5	165
170							5.8	6		6.2	6.1		6.1	6.1	6.3	6.5	6.3	6.4	170
175										6	5.9		5.8	5.9	6.1	6.3	6.2	6.3	175
180										5.8	5.9		5.6	5.7		6.1	6	6.2	180
185										5.7			5.4	5.5		5.9	5.9	6	185
190													5.2	5.3		5.7	5.7	5.9	190
195													5	5.1		5.5	5.5		195
200													4.9			5.3	5.4		200
205																5.1	5.2		205
210																5	5.1		210
215																4.8			215

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GUAY

Lifting capacities
Forces de levage

TVNZK

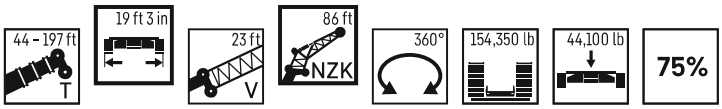


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	13.1			12.3															45
50	13			12.2															50
55	12.8			12.1			11.2												55
60	12.7			12			11.1			10.3			9.4						60
65	12.5			11.9			11			10.2			9.4			8.3			65
70	12.3			11.8			10.8			10.1			9.3			8.2			70
75	12.1			11.6			10.7			10			9.1			8.1			75
80	11.8	9.8		11.4			10.5			9.9			9.1			8			80
85	11.5	9.6		11.2	9.5		10.4			9.7			9			7.9			85
90	11.2	9.3		10.9	9.2		10.2			9.6			8.9			7.8			90
95	10.8	9.1		10.6	9		10.1	8.9		9.5	8.7		8.8			7.7			95
100	10.5	8.9		10.2	8.8		9.9	8.7		9.3	8.5		8.7	8.1		7.6			100
105	10.1	8.7	7.3	9.9	8.6	7.2	9.6	8.5		9.2	8.4		8.6	8		7.5	7.1		105
110	9.7	8.5	7.2	9.7	8.5	7.2	9.4	8.3		9	8.2		8.5	7.9		7.4	7.1		110
115	9.4	8.3	7.1	9.4	8.3	7.1	9.1	8.2	7	8.8	8.1	6.9	8.4	7.8		7.4	7.1		115
120	9.1	8.1	7	9.1	8.1	7	8.9	8	6.9	8.7	7.9	6.8	8.2	7.7	6.7	7.4	7.1		120
125	8.8	7.9	6.9	8.8	7.9	6.9	8.7	7.8	6.9	8.5	7.7	6.8	8.1	7.5	6.7	7.3	7	6.5	125
130	8.6	7.7	6.9	8.6	7.8	6.9	8.4	7.6	6.8	8.3	7.5	6.7	8	7.3	6.6	7.3	6.9	6.4	130
135	8.3	7.5	6.8	8.4	7.6	6.8	8.2	7.5	6.7	8.1	7.4	6.7	7.8	7.2	6.6	7.2	6.8	6.3	135
140	8.1	7.4	6.8	8.1	7.4	6.8	8	7.3	6.7	7.9	7.2	6.6	7.7	7.1	6.5	7.2	6.7	6.3	140
145	7.8	7.2	6.8	7.9	7.2	6.7	7.8	7.1	6.7	7.7	7.1	6.6	7.5	6.9	6.5	7.1	6.6	6.2	145
150	7.6	7	6.7	7.7	7.1	6.7	7.6	7	6.6	7.6	6.9	6.5	7.4	6.8	6.4	7	6.5	6.1	150
155	7.4	6.8	6.6	7.5	6.9	6.6	7.4	6.8	6.6	7.4	6.8	6.5	7.2	6.6	6.4	6.9	6.4	6.1	155
160	7.1	6.7	6.6	7.3	6.7	6.5	7.3	6.7	6.5	7.2	6.7	6.4	7.1	6.5	6.3	6.7	6.3	6	160
165	6.9	6.5	6.5	7.1	6.6	6.5	7.1	6.6	6.4	7.1	6.5	6.3	6.9	6.4	6.2	6.6	6.2	6	165
170	6.6	6.4	6.4	6.9	6.4	6.4	6.9	6.4	6.3	6.9	6.4	6.3	6.8	6.3	6.2	6.3	6.1	5.9	170
175	6.4	6.3	6.3	6.7	6.3	6.3	6.8	6.3	6.3	6.8	6.3	6.2	6.6	6.2	6.1	6.1	6	5.8	175
180	6.1	6.1	6.2	6.5	6.2	6.2	6.6	6.2	6.2	6.6	6.2	6.1	6.5	6.1	6	5.9	5.9	5.8	180
185	5.8	6	6.2	6.2	6.1	6.1	6.3	6.1	6.1	6.5	6.1	6.1	6.4	6	6	5.7	5.7	5.7	185
190	5.6	5.8	6	6	6	6.1	6.1	6	6	6.3	6	6	6.3	5.9	5.9	5.5	5.6	5.6	190
195	5.4	5.6	5.7	5.8	5.8	6	5.9	5.9	6	6.1	5.9	6	6.2	5.8	5.8	5.3	5.5	5.6	195
200	5.2	5.3	5.5	5.6	5.7	5.9	5.7	5.8	5.9	5.9	5.8	5.9	6	5.7	5.8	5.1	5.3	5.4	200
205	5	5.1		5.4	5.5	5.7	5.4	5.6	5.8	5.7	5.7	5.9	5.8	5.6	5.8	4.9	5.1	5.3	205
210	4.8	4.9		5.2	5.3	5.5	5.2	5.4	5.7	5.5	5.6	5.8	5.7	5.6	5.7	4.6	4.9	5.2	210
215	4.6	4.7		5	5.1		5	5.2	5.4	5.3	5.5	5.7	5.5	5.5	5.7	4.4	4.7	5	215
220	4.4	4.5		4.8	4.9		4.8	5	5.2	5.1	5.3	5.5	5.3	5.4	5.6	4.2	4.5	4.8	220
225	4.3			4.6	4.8		4.6	4.8	4.9	4.9	5.1	5.3	5	5.3	5.5	4	4.3	4.6	225
230				4.5	4.6		4.3	4.6	4.6	4.7	4.9	5.1	4.6	5.1	5.3	3.8	4.1	4.4	230
235				4.4	4.5		4.1	4.3		4.5	4.7	4.9	4.1	4.9	5.1	3.6	3.9	4.2	235
240				4.1			4	4.1		4.4	4.6	4.7	3.7	4.6	4.9	3.3	3.7	4	240
245							3.8	3.9		4.2	4.4	4.5	3.3	4.1	4.4	2.9	3.5	3.8	245
250							3.6	3.7		4	4.2		2.9	3.7	3.8	2.5	3.3	3.5	250
255							1.7			3.7	4		2.5	3.2	3.3	2.1	3	3.2	255
260										3.3	3.7		2.1	2.7		1.8	2.5	2.7	260
265										1.7			1.7	2.3		1.3	2.1	2.2	265
270													1.4	1.9			1.7		270
275														1.4					275

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Lifting capacities
Forces de levage

TVNZK

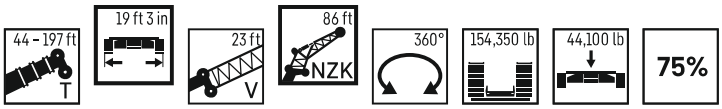


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	22.6			20.2															22
24	22.5			20.2															24
26	22.5			20.2															26
28	22.4			20.2			18.2												28
30	22.2			20.2			18.2												30
32	21.9			20.1			18.1			16.9									32
34	21.6			20			18.1			16.9									34
36	21.2			19.9			18			16.8			15.3						36
38	20.7			19.8			17.9			16.7			15.3			14.4			38
40	20.2			19.6			17.8			16.7			15.2			14.3			40
45	18.9			19			17.6			16.5			15.1			14.2			45
50	17.7			18.2			17.2			16.3			14.9			14.1			50
55	16.5	13.3		17.4			16.6			16.1			14.8			14			55
60	15.4	12.6		16.5	12.5		15.9			15.5			14.6			13.8			60
65	14.4	11.9		15.6	11.9		15.1	11.7		14.9	11.6		14.2			13.7			65
70	13.5	11.2		14.7	11.3		14.4	11.2		14.3	11.2		13.7			13.4			70
75	12.6	10.6		13.8	10.8		13.7	10.7		13.7	10.7		13.2	10.5		12.9			75
80	11.7	10.1	8.3	13	10.3	8.3	13	10.3		13.1	10.3		12.7	10.1		12.5	10.1		80
85	10.9	9.6	8	12.3	9.8	8.1	12.3	9.9	8	12.5	9.9		12.2	9.8		12	9.8		85
90	10.2	9.2	7.8	11.5	9.4	7.9	11.7	9.5	7.9	11.9	9.6		11.7	9.5		11.6	9.5		90
95	9.6	8.9	7.6	10.8	9.1	7.7	11	9.2	7.7	11.3	9.3	7.7	11.2	9.2	7.6	11.2	9.2		95
100	9	8.5	7.4	10.2	8.8	7.5	10.4	8.9	7.5	10.8	9	7.5	10.7	9	7.5	10.7	9	7.5	100
105	8.5	8.2	7.3	9.6	8.5	7.4	9.9	8.6	7.4	10.3	8.7	7.4	10.3	8.7	7.4	10.3	8.7	7.4	105
110	8	8	7.2	9	8.2	7.3	9.4	8.4	7.3	9.8	8.5	7.3	9.8	8.5	7.3	9.9	8.6	7.2	110
115	7.6	7.7	7.1	8.6	8	7.1	8.9	8.1	7.2	9.3	8.3	7.2	9.4	8.3	7.2	9.6	8.3	7.2	115
120	7.2	7.4	7	8.2	7.7	7.1	8.5	7.9	7.1	8.9	8.1	7.1	9	8.1	7.1	9.2	8.2	7.1	120
125	6.9	7	7	7.8	7.4	7	8.2	7.7	7	8.6	7.8	7	8.7	7.9	7	8.9	8	7	125
130	6.6	6.7	6.8	7.4	7.2	7	7.8	7.4	6.9	8.2	7.6	6.9	8.4	7.7	6.9	8.6	7.8	6.9	130
135	6.3	6.4	6.7	7.1	6.9	6.9	7.5	7.1	6.9	7.9	7.4	6.9	8.1	7.5	6.9	8.3	7.6	6.9	135
140	6	6.2		6.8	6.6	6.7	7.2	6.9	6.8	7.6	7.1	6.9	7.8	7.2	6.8	8	7.4	6.8	140
145	5.8			6.5	6.4		6.9	6.7	6.7	7.3	6.9	6.8	7.5	7.1	6.8	7.8	7.2	6.8	145
150				6.2	6.2		6.7	6.5	6.6	7.1	6.7	6.7	7.2	6.9	6.7	7.5	7	6.7	150
155				6	6.1		6.4	6.3	6.5	6.8	6.5	6.6	6.9	6.7	6.6	7.3	6.8	6.7	155
160							6.2	6.1		6.6	6.4	6.5	6.6	6.5	6.5	7	6.6	6.6	160
165							6	6		6.4	6.2	6.5	6.3	6.3	6.4	6.8	6.5	6.5	165
170							5.8	6		6.2	6.1		6.1	6.1	6.3	6.5	6.3	6.4	170
175										6	5.9		5.8	5.9	6.1	6.3	6.2	6.3	175
180										5.8	5.9		5.6	5.7		6.1	6	6.2	180
185										5.7			5.4	5.5		5.9	5.9	6	185
190													5.2	5.3		5.7	5.7	5.9	190
195													5	5.1		5.5	5.5		195
200													4.9			5.3	5.4		200
205																5.1	5.2		205
210																5	5.1		210
215																4.8			215

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Lifting capacities
Forces de levage

TVNZK

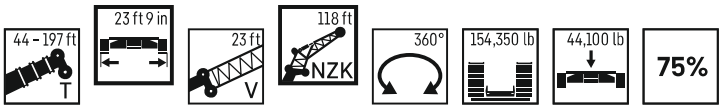


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	13.1			12.3															45
50	13			12.2															50
55	12.8			12.1			11.2												55
60	12.7			12			11.1			10.3			9.4						60
65	12.5			11.9			11			10.2			9.4			8.3			65
70	12.3			11.8			10.8			10.1			9.3			8.2			70
75	12.1			11.6			10.7			10			9.1			8.1			75
80	11.8	9.8		11.4			10.5			9.9			9.1			8			80
85	11.5	9.6		11.2	9.5		10.4			9.7			9			7.9			85
90	11.2	9.3		10.9	9.2		10.2			9.6			8.9			7.8			90
95	10.8	9.1		10.6	9		10.1	8.9		9.5	8.7		8.8			7.7			95
100	10.5	8.9		10.2	8.8		9.9	8.7		9.3	8.5		8.7	8.1		7.6			100
105	10.1	8.7	7.3	9.9	8.6	7.2	9.6	8.5		9.2	8.4		8.6	8		7.5	7.1		105
110	9.7	8.5	7.2	9.7	8.5	7.2	9.4	8.3		9	8.2		8.5	7.9		7.4	7.1		110
115	9.4	8.3	7.1	9.4	8.3	7.1	9.1	8.2	7	8.8	8.1	6.9	8.4	7.8		7.4	7.1		115
120	9.1	8.1	7	9.1	8.1	7	8.9	8	6.9	8.7	7.9	6.8	8.2	7.7	6.7	7.4	7.1		120
125	8.8	7.9	6.9	8.8	7.9	6.9	8.7	7.8	6.9	8.5	7.7	6.8	8.1	7.5	6.7	7.3	7	6.5	125
130	8.6	7.7	6.9	8.6	7.8	6.9	8.4	7.6	6.8	8.3	7.5	6.7	8	7.3	6.6	7.3	6.9	6.4	130
135	8.3	7.5	6.8	8.4	7.6	6.8	8.2	7.5	6.7	8.1	7.4	6.7	7.8	7.2	6.6	7.2	6.8	6.3	135
140	8.1	7.4	6.8	8.1	7.4	6.8	8	7.3	6.7	7.9	7.2	6.6	7.7	7.1	6.5	7.2	6.7	6.3	140
145	7.8	7.2	6.8	7.9	7.2	6.7	7.8	7.1	6.7	7.7	7.1	6.6	7.5	6.9	6.5	7.1	6.6	6.2	145
150	7.6	7	6.7	7.7	7.1	6.7	7.6	7	6.6	7.6	6.9	6.5	7.4	6.8	6.4	7	6.5	6.1	150
155	7.4	6.8	6.6	7.5	6.9	6.6	7.4	6.8	6.6	7.4	6.8	6.5	7.2	6.6	6.4	6.9	6.4	6.1	155
160	7.1	6.7	6.6	7.3	6.7	6.5	7.3	6.7	6.5	7.2	6.7	6.4	7.1	6.5	6.3	6.7	6.3	6	160
165	6.9	6.5	6.5	7.1	6.6	6.5	7.1	6.6	6.4	7.1	6.5	6.3	6.9	6.4	6.2	6.6	6.2	6	165
170	6.6	6.4	6.4	6.9	6.4	6.4	6.9	6.4	6.3	6.9	6.4	6.3	6.8	6.3	6.2	6.3	6.1	5.9	170
175	6.4	6.3	6.3	6.7	6.3	6.3	6.8	6.3	6.3	6.8	6.3	6.2	6.6	6.2	6.1	6.1	6	5.8	175
180	6.1	6.1	6.2	6.5	6.2	6.2	6.6	6.2	6.2	6.6	6.2	6.1	6.5	6.1	6	5.9	5.9	5.8	180
185	5.8	6	6.2	6.2	6.1	6.1	6.3	6.1	6.1	6.5	6.1	6.1	6	6	6	5.4	5.7	5.7	185
190	5.6	5.8	6	6	6	6.1	6.1	6	6	6.3	6	6	5.5	5.9	5.9	4.9	5.6	5.6	190
195	5.4	5.6	5.7	5.8	5.8	6	5.9	5.9	6	6	5.9	6	5	5.8	5.8	4.4	5.5	5.6	195
200	5.2	5.3	5.5	5.6	5.7	5.9	5.7	5.8	5.9	5.6	5.8	5.9	4.4	5.7	5.8	3.9	5.3	5.4	200
205	5	5.1		5.4	5.5	5.7	5.4	5.6	5.8	5	5.7	5.9	3.9	5.3	5.8	3.4	4.9	5.3	205
210	4.8	4.9		5.2	5.3	5.5	5.2	5.4	5.7	4.5	5.6	5.8	3.3	4.8	5.5	2.9	4.4	5.1	210
215	4.6	4.7		5	5.1		4.9	5.2	5.4	4	5.2	5.6	2.9	4.2	5	2.5	3.9	4.8	215
220	4.4	4.5		4.8	4.9		4.5	5	5.2	3.6	4.6	5.2	2.4	3.7	4.4	2	3.4	4.2	220
225	4.3			4.6	4.8		4.1	4.8	4.9	3.1	4.1	4.5	2	3.2	3.8	1.5	2.9	3.6	225
230				4.5	4.6		3.7	4.4	4.5	2.7	3.6	4	1.5	2.7	3.2		2.4	3.1	230
235				4.3	4.5		3.3	3.9		2.3	3.1	3.4		2.2	2.6		2	2.5	235
240				4			2.9	3.4		2	2.7	2.8		1.7	2.1		1.4	2	240
245							2.6	3		1.6	2.3	2.3			1.5			1.4	245
250							2.3	2.5			1.8								250
255							1.7				1.4								255

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Lifting capacities
Forces de levage

TVNZK

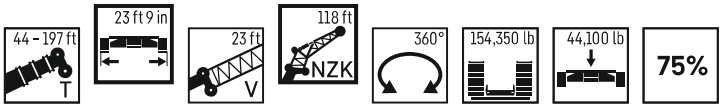


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
24	10.1																		24
26	10.5																		26
28	10.8			9.9															28
30	11			10.1															30
32	11			10.3			9.3												32
34	10.9			10.3			9.4			8.9									34
36	10.9			10.3			9.5			9									36
38	10.8			10.2			9.5			9.1									38
40	10.8			10.2			9.5			9									40
45	10.5			10.1			9.4			9			8.4			8.1			45
50	10.2			9.9			9.3			8.9			8.4			8			50
55	9.8			9.6			9.1			8.8			8.3			8			55
60	9.4			9.3			8.9			8.7			8.3			7.9			60
65	9.1			9			8.7			8.5			8.2			7.9			65
70	8.7	7.2		8.6			8.4			8.3			8			7.8			70
75	8.3	6.9		8.3			8.1			8			7.8			7.6			75
80	7.9	6.6		8	6.6		7.9			7.8			7.6			7.4			80
85	7.5	6.3		7.7	6.3		7.6	6.2		7.5	6.2		7.4			7.2			85
90	7.2	6		7.3	6.1		7.3	6		7.3	6		7.1	5.9		7.1	5.8		90
95	6.9	5.8		7	5.8		7	5.8		7.1	5.8		6.9	5.7		6.9	5.7		95
100	6.6	5.5		6.7	5.6		6.8	5.6		6.8	5.6		6.7	5.5		6.7	5.5		100
105	6.2	5.3	4.4	6.4	5.4		6.5	5.4		6.6	5.4		6.5	5.4		6.5	5.3		105
110	6	5.1	4.3	6.2	5.2	4.3	6.3	5.2	4.3	6.4	5.3		6.3	5.2		6.3	5.2		110
115	5.7	4.9	4.2	5.9	5	4.2	6	5.1	4.2	6.2	5.1		6.1	5.1		6.1	5.1		115
120	5.4	4.8	4.1	5.7	4.9	4.1	5.8	4.9	4.1	5.9	4.9	4.1	6	4.9		6	4.9		120
125	5.2	4.6	4	5.5	4.7	4	5.6	4.7	4	5.7	4.8	4	5.8	4.8	4	5.8	4.8	3.9	125
130	5	4.4	3.9	5.3	4.6	3.9	5.4	4.6	3.9	5.5	4.6	3.9	5.6	4.7	3.9	5.6	4.7	3.9	130
135	4.8	4.3	3.8	5	4.4	3.9	5.2	4.5	3.8	5.3	4.5	3.8	5.4	4.5	3.8	5.5	4.5	3.8	135
140	4.6	4.2	3.8	4.9	4.3	3.8	5	4.3	3.8	5.2	4.4	3.8	5.2	4.4	3.8	5.3	4.4	3.7	140
145	4.4	4	3.7	4.7	4.2	3.7	4.8	4.2	3.7	5	4.3	3.7	5.1	4.3	3.7	5.1	4.3	3.7	145
150	4.2	3.9	3.7	4.5	4	3.7	4.7	4.1	3.7	4.9	4.2	3.7	4.9	4.2	3.7	5	4.2	3.6	150
155	4	3.8	3.7	4.3	3.9	3.7	4.5	4	3.6	4.7	4.1	3.6	4.8	4.1	3.6	4.9	4.2	3.6	155
160	3.8	3.7	3.7	4.2	3.9	3.6	4.4	3.9	3.6	4.6	4	3.6	4.6	4	3.6	4.7	4.1	3.6	160
165	3.7	3.7	3.7	4	3.8	3.6	4.2	3.9	3.6	4.4	3.9	3.6	4.5	3.9	3.5	4.6	4	3.5	165
170	3.5	3.7		3.9	3.7	3.6	4.1	3.8	3.6	4.3	3.8	3.6	4.4	3.9	3.5	4.5	3.9	3.5	170
175	3.4	3.7		3.7	3.7		4	3.7	3.6	4.1	3.8	3.6	4.3	3.8	3.5	4.4	3.8	3.5	175
180				3.6	3.6		3.8	3.6	3.6	4.1	3.7	3.6	4.1	3.7	3.5	4.3	3.8	3.5	180
185				3.4	3.6		3.7	3.6	3.6	3.9	3.6	3.6	4	3.7	3.5	4.1	3.7	3.5	185
190				3.3			3.6	3.6		3.8	3.6	3.6	3.9	3.6	3.5	4	3.6	3.5	190
195							3.5	3.6		3.7	3.6	3.6	3.8	3.6	3.5	3.9	3.6	3.5	195
200							3.4	3.5		3.6	3.5		3.8	3.5	3.5	3.8	3.5	3.5	200
205							3.3			3.5	3.5		3.7	3.5	3.5	3.8	3.5	3.5	205
210										3.4	3.5		3.5	3.5		3.7	3.5	3.5	210
215										3.3	3.5		3.5	3.4		3.6	3.4	3.5	215
220													3.4	3.4		3.5	3.4		220
225													3.2	3.3		3.4	3.4		225
230													3.1			3.3	3.3		230
235																3.2	3.3		235
240																3.2	3.3		240
245																3.2			245

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Lifting capacities
Forces de levage

TVNZK

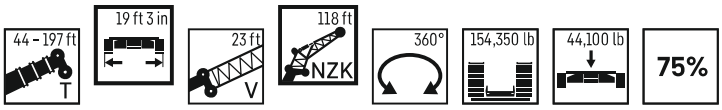


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
55	7.5			7.2															55
60	7.5			7.2			6.7												60
65	7.4			7.1			6.7			6.2			5.7						65
70	7.4			7.1			6.6			6.1			5.6			4.5			70
75	7.3			7			6.6			6.1			5.6			4.5			75
80	7.2			7			6.5			6.1			5.6			4.5			80
85	7			6.8			6.5			6			5.6			4.5			85
90	6.8			6.7			6.4			6			5.5			4.4			90
95	6.7			6.6			6.3			6			5.5			4.3			95
100	6.5	5.4		6.4			6.2			5.9			5.5			4.3			100
105	6.4	5.3		6.3	5.2		6.1			5.8			5.4			4.2			105
110	6.2	5.1		6.1	5.1		6	5		5.7	4.9		5.4			4.1			110
115	6	5		6	5		5.8	4.9		5.6	4.8		5.3			4.1			115
120	5.9	4.9		5.8	4.8		5.7	4.8		5.5	4.7		5.2	4.6		4			120
125	5.7	4.7		5.7	4.7		5.6	4.6		5.4	4.6		5.2	4.5		4	4.2		125
130	5.6	4.6	3.8	5.5	4.6	3.8	5.4	4.5		5.3	4.5		5.1	4.4		3.9	4.1		130
135	5.4	4.5	3.8	5.4	4.5	3.8	5.3	4.5		5.2	4.4		5	4.3		3.9	4.1		135
140	5.3	4.4	3.7	5.3	4.4	3.7	5.2	4.4	3.6	5.1	4.3		4.9	4.2		3.8	4		140
145	5.2	4.3	3.7	5.2	4.3	3.6	5.1	4.3	3.6	5	4.2	3.5	4.8	4.1		3.8	4		145
150	5	4.2	3.6	5	4.2	3.6	5	4.2	3.6	4.9	4.1	3.5	4.7	4	3.4	3.7	3.9		150
155	4.9	4.2	3.6	4.9	4.2	3.6	4.9	4.1	3.5	4.8	4.1	3.5	4.7	4	3.4	3.7	3.8		155
160	4.8	4.1	3.5	4.8	4.1	3.5	4.7	4	3.5	4.7	4	3.4	4.6	3.9	3.4	3.7	3.8	3.3	160
165	4.6	4	3.5	4.7	4	3.5	4.6	4	3.4	4.6	3.9	3.4	4.5	3.8	3.3	3.6	3.7	3.3	165
170	4.5	3.9	3.5	4.6	3.9	3.4	4.5	3.9	3.4	4.5	3.9	3.4	4.4	3.8	3.3	3.6	3.7	3.2	170
175	4.4	3.8	3.4	4.5	3.9	3.4	4.4	3.8	3.4	4.4	3.8	3.3	4.3	3.7	3.3	3.5	3.6	3.2	175
180	4.3	3.8	3.4	4.3	3.8	3.4	4.3	3.8	3.4	4.3	3.7	3.3	4.2	3.7	3.3	3.5	3.6	3.2	180
185	4.2	3.7	3.4	4.2	3.7	3.4	4.2	3.7	3.3	4.2	3.7	3.3	4.1	3.6	3.2	3.5	3.5	3.2	185
190	4.1	3.6	3.4	4.2	3.7	3.4	4.1	3.6	3.3	4.1	3.6	3.3	4.1	3.6	3.2	3.5	3.5	3.2	190
195	4	3.6	3.4	4.1	3.6	3.4	4.1	3.6	3.3	4.1	3.6	3.3	4	3.5	3.2	3.5	3.4	3.1	195
200	3.9	3.5	3.4	4	3.6	3.4	4	3.5	3.3	4	3.5	3.3	3.9	3.5	3.2	3.5	3.4	3.1	200
205	3.8	3.5	3.4	3.9	3.5	3.4	3.9	3.5	3.3	3.9	3.5	3.3	3.8	3.4	3.2	3.5	3.3	3.1	205
210	3.7	3.5	3.4	3.8	3.5	3.4	3.8	3.4	3.3	3.8	3.4	3.3	3.8	3.4	3.2	3.5	3.3	3.1	210
215	3.7	3.4	3.4	3.7	3.4	3.4	3.8	3.4	3.3	3.7	3.4	3.3	3.7	3.3	3.2	3.4	3.2	3.1	215
220	3.6	3.4	3.4	3.6	3.4	3.4	3.7	3.4	3.3	3.7	3.3	3.3	3.6	3.3	3.2	3.3	3.2	3.1	220
225	3.5	3.4	3.4	3.5	3.4	3.4	3.6	3.3	3.3	3.6	3.3	3.3	3.5	3.3	3.2	3.1	3.2	3.1	225
230	3.3	3.3	3.4	3.5	3.3	3.4	3.5	3.3	3.3	3.5	3.3	3.3	3.5	3.2	3.2	2.9	3.2	3.1	230
235	3.2	3.3		3.4	3.3	3.4	3.4	3.3	3.3	3.4	3.2	3.3	3.4	3.2	3.2	2.7	3.1	3	235
240	3.1	3.2		3.3	3.3	3.4	3.3	3.2	3.3	3.4	3.2	3.3	3.3	3.2	3.2	2.6	3	3	240
245	2.9	3.1		3.2	3.2		3.2	3.2	3.3	3.3	3.2	3.3	3.2	3.1	3.2	2.4	2.8	3	245
250	2.8	2.9		3.1	3.2		3	3.2	3.3	3.2	3.2	3.3	3	3.1	3.2	2.2	2.7	3	250
255	2.7			3	3.1		2.9	3.1	3.3	3.1	3.1	3.3	2.7	3.1	3.2	2	2.5	2.8	255
260	2.4			2.9	3		2.7	3		3	3.1	3.3	2.3	3	3.2	1.8	2.4	2.7	260
265				2.8	2.9		2.5	2.8		2.8	3	3.2	1.9	3	3.2	1.4	2.2	2.5	265
270				2.7			2.4	2.6		2.7	2.9	3.1	1.6	2.7	3.2		2	2.3	270
275							2.2			2.5	2.8			2.3	2.8			2.1	275
280							2			2.2	2.6			1.9	2.2			1.8	280
285										1.9	2.5			1.6					285
290										1.5									290

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Lifting capacities
Forces de levage

TVNZK

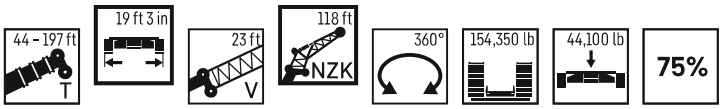


	44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
24	10.1																		24
26	10.5																		26
28	10.8			9.9															28
30	11			10.1															30
32	11			10.3			9.3												32
34	10.9			10.3			9.4			8.9									34
36	10.9			10.3			9.5			9									36
38	10.8			10.2			9.5			9.1									38
40	10.8			10.2			9.5			9									40
45	10.5			10.1			9.4			9			8.4			8.1			45
50	10.2			9.9			9.3			8.9			8.4			8			50
55	9.8			9.6			9.1			8.8			8.3			8			55
60	9.4			9.3			8.9			8.7			8.3			7.9			60
65	9.1			9			8.7			8.5			8.2			7.9			65
70	8.7	7.2		8.6			8.4			8.3			8			7.8			70
75	8.3	6.9		8.3			8.1			8			7.8			7.6			75
80	7.9	6.6		8	6.6		7.9			7.8			7.6			7.4			80
85	7.5	6.3		7.7	6.3		7.6	6.2		7.5	6.2		7.4			7.2			85
90	7.2	6		7.3	6.1		7.3	6		7.3	6		7.1	5.9		7.1	5.8		90
95	6.9	5.8		7	5.8		7	5.8		7.1	5.8		6.9	5.7		6.9	5.7		95
100	6.6	5.5		6.7	5.6		6.8	5.6		6.8	5.6		6.7	5.5		6.7	5.5		100
105	6.2	5.3	4.4	6.4	5.4		6.5	5.4		6.6	5.4		6.5	5.4		6.5	5.3		105
110	6	5.1	4.3	6.2	5.2	4.3	6.3	5.2	4.3	6.4	5.3		6.3	5.2		6.3	5.2		110
115	5.7	4.9	4.2	5.9	5	4.2	6	5.1	4.2	6.2	5.1		6.1	5.1		6.1	5.1		115
120	5.4	4.8	4.1	5.7	4.9	4.1	5.8	4.9	4.1	5.9	4.9	4.1	6	4.9		6	4.9		120
125	5.2	4.6	4	5.5	4.7	4	5.6	4.7	4	5.7	4.8	4	5.8	4.8	4	5.8	4.8	3.9	125
130	5	4.4	3.9	5.3	4.6	3.9	5.4	4.6	3.9	5.5	4.6	3.9	5.6	4.7	3.9	5.6	4.7	3.9	130
135	4.8	4.3	3.8	5	4.4	3.9	5.2	4.5	3.8	5.3	4.5	3.8	5.4	4.5	3.8	5.5	4.5	3.8	135
140	4.6	4.2	3.8	4.9	4.3	3.8	5	4.3	3.8	5.2	4.4	3.8	5.2	4.4	3.8	5.3	4.4	3.7	140
145	4.4	4	3.7	4.7	4.2	3.7	4.8	4.2	3.7	5	4.3	3.7	5.1	4.3	3.7	5.1	4.3	3.7	145
150	4.2	3.9	3.7	4.5	4	3.7	4.7	4.1	3.7	4.9	4.2	3.7	4.9	4.2	3.7	5	4.2	3.6	150
155	4	3.8	3.7	4.3	3.9	3.7	4.5	4	3.6	4.7	4.1	3.6	4.8	4.1	3.6	4.9	4.2	3.6	155
160	3.8	3.7	3.7	4.2	3.9	3.6	4.4	3.9	3.6	4.6	4	3.6	4.6	4	3.6	4.7	4.1	3.6	160
165	3.7	3.7	3.7	4	3.8	3.6	4.2	3.9	3.6	4.4	3.9	3.6	4.5	3.9	3.5	4.6	4	3.5	165
170	3.5	3.7		3.9	3.7	3.6	4.1	3.8	3.6	4.3	3.8	3.6	4.4	3.9	3.5	4.5	3.9	3.5	170
175	3.4	3.7		3.7	3.7		4	3.7	3.6	4.1	3.8	3.6	4.3	3.8	3.5	4.4	3.8	3.5	175
180				3.6	3.6		3.8	3.6	3.6	4.1	3.7	3.6	4.1	3.7	3.5	4.3	3.8	3.5	180
185				3.4	3.6		3.7	3.6	3.6	3.9	3.6	3.6	4	3.7	3.5	4.1	3.7	3.5	185
190				3.3			3.6	3.6		3.8	3.6	3.6	3.9	3.6	3.5	4	3.6	3.5	190
195							3.5	3.6		3.7	3.6	3.6	3.8	3.6	3.5	3.9	3.6	3.5	195
200							3.4	3.5		3.6	3.5		3.8	3.5	3.5	3.8	3.5	3.5	200
205							3.3			3.5	3.5		3.7	3.5	3.5	3.8	3.5	3.5	205
210										3.4	3.5		3.5	3.5		3.7	3.5	3.5	210
215										3.3	3.5		3.5	3.4		3.6	3.4	3.5	215
220													3.4	3.4		3.5	3.4		220
225													3.2	3.3		3.4	3.4		225
230													3.1			3.3	3.3		230
235																3.2	3.3		235
240																3.2	3.3		240
245																3.2			245

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Lifting capacities
Forces de levage

TVNZK

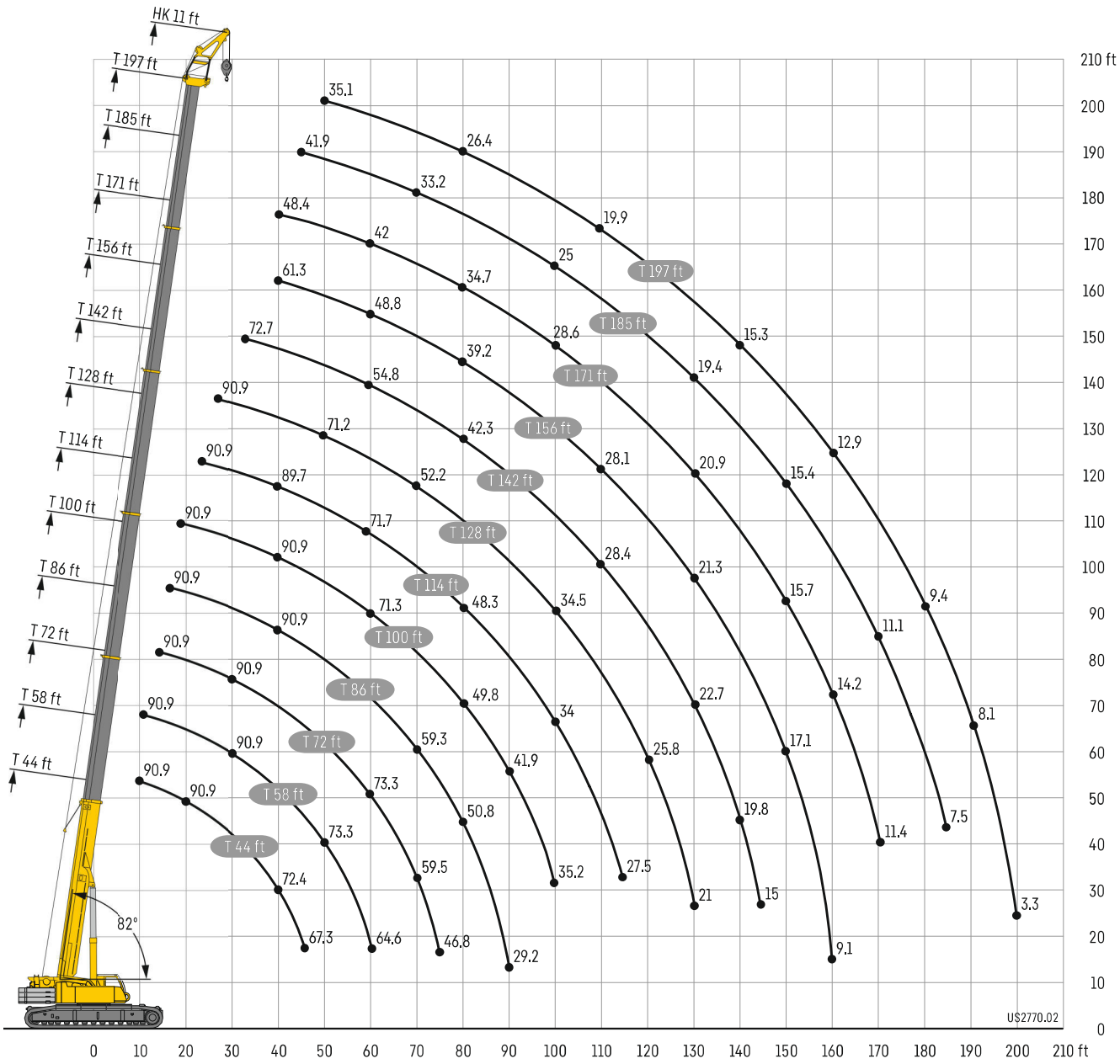


	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	118 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
55	7.5			7.2															55
60	7.5			7.2			6.7												60
65	7.4			7.1			6.7			6.2			5.7						65
70	7.4			7.1			6.6			6.1			5.6			4.5			70
75	7.3			7			6.6			6.1			5.6			4.5			75
80	7.2			7			6.5			6.1			5.6			4.5			80
85	7			6.8			6.5			6			5.6			4.5			85
90	6.8			6.7			6.4			6			5.5			4.4			90
95	6.7			6.6			6.3			6			5.5			4.3			95
100	6.5	5.4		6.4			6.2			5.9			5.5			4.3			100
105	6.4	5.3		6.3	5.2		6.1			5.8			5.4			4.2			105
110	6.2	5.1		6.1	5.1		6	5		5.7	4.9		5.4			4.1			110
115	6	5		6	5		5.8	4.9		5.6	4.8		5.3			4.1			115
120	5.9	4.9		5.8	4.8		5.7	4.8		5.5	4.7		5.2	4.6		4			120
125	5.7	4.7		5.7	4.7		5.6	4.6		5.4	4.6		5.2	4.5		4	4.2		125
130	5.6	4.6	3.8	5.5	4.6	3.8	5.4	4.5		5.3	4.5		5.1	4.4		3.9	4.1		130
135	5.4	4.5	3.8	5.4	4.5	3.8	5.3	4.5		5.2	4.4		5	4.3		3.9	4.1		135
140	5.3	4.4	3.7	5.3	4.4	3.7	5.2	4.4	3.6	5.1	4.3		4.9	4.2		3.8	4		140
145	5.2	4.3	3.7	5.2	4.3	3.6	5.1	4.3	3.6	5	4.2	3.5	4.8	4.1		3.8	4		145
150	5	4.2	3.6	5	4.2	3.6	5	4.2	3.6	4.9	4.1	3.5	4.7	4	3.4	3.7	3.9		150
155	4.9	4.2	3.6	4.9	4.2	3.6	4.9	4.1	3.5	4.8	4.1	3.5	4.7	4	3.4	3.7	3.8		155
160	4.8	4.1	3.5	4.8	4.1	3.5	4.7	4	3.5	4.7	4	3.4	4.6	3.9	3.4	3.7	3.8	3.3	160
165	4.6	4	3.5	4.7	4	3.5	4.6	4	3.4	4.6	3.9	3.4	4.5	3.8	3.3	3.6	3.7	3.3	165
170	4.5	3.9	3.5	4.6	3.9	3.4	4.5	3.9	3.4	4.5	3.9	3.4	4.4	3.8	3.3	3.6	3.7	3.2	170
175	4.4	3.8	3.4	4.5	3.9	3.4	4.4	3.8	3.4	4.4	3.8	3.3	4.3	3.7	3.3	3.5	3.6	3.2	175
180	4.3	3.8	3.4	4.3	3.8	3.4	4.3	3.8	3.4	4.3	3.7	3.3	4.2	3.7	3.3	3.5	3.6	3.2	180
185	4.2	3.7	3.4	4.2	3.7	3.4	4.2	3.7	3.3	4.2	3.7	3.3	4.1	3.6	3.2	3.5	3.5	3.2	185
190	4.1	3.6	3.4	4.2	3.7	3.4	4.1	3.6	3.3	4.1	3.6	3.3	4.1	3.6	3.2	3.5	3.5	3.2	190
195	4	3.6	3.4	4.1	3.6	3.4	4.1	3.6	3.3	4.1	3.6	3.3	4	3.5	3.2	3.5	3.4	3.1	195
200	3.9	3.5	3.4	4	3.6	3.4	4	3.5	3.3	4	3.5	3.3	3.9	3.5	3.2	3.5	3.4	3.1	200
205	3.8	3.5	3.4	3.9	3.5	3.4	3.9	3.5	3.3	3.9	3.5	3.3	3.7	3.4	3.2	3.2	3.3	3.1	205
210	3.7	3.5	3.4	3.8	3.5	3.4	3.8	3.4	3.3	3.8	3.4	3.3	3.5	3.4	3.2	2.9	3.3	3.1	210
215	3.7	3.4	3.4	3.7	3.4	3.4	3.8	3.4	3.3	3.7	3.4	3.3	3	3.3	3.2	2.5	3.2	3.1	215
220	3.6	3.4	3.4	3.6	3.4	3.4	3.7	3.4	3.3	3.7	3.3	3.3	2.6	3.3	3.2	2	3.2	3.1	220
225	3.5	3.4	3.4	3.5	3.4	3.4	3.6	3.3	3.3	3.4	3.3	3.3	2.2	3.3	3.2	1.5	3.2	3.1	225
230	3.3	3.3	3.4	3.5	3.3	3.4	3.5	3.3	3.3	3	3.3	3.3	1.7	3.2	3.2		3.1	3.1	230
235	3.2	3.3		3.4	3.3	3.4	3.4	3.3	3.3	2.6	3.2	3.3		3	3.2		2.6	3	235
240	3.1	3.2		3.3	3.3	3.4	3.2	3.2	3.3	2.2	3.2	3.3		2.6	3.2		2.2	3	240
245	2.9	3.1		3.2	3.2		2.8	3.2	3.3	1.9	3	3.3		2.2	3.1		1.8	2.8	245
250	2.8	2.9		3.1	3.2		2.5	3.2	3.3	1.5	2.7	3.3		1.8	2.7			2.4	250
255	2.7			3	3.1		2.1	3	3.2		2.3	2.8			2.2			1.9	255
260	2.4			2.8	3		1.8	2.6			1.9	2.3			1.7				260
265				2.6	2.9		1.5	2.2			1.5	1.9							265
270				2.3				1.9											270

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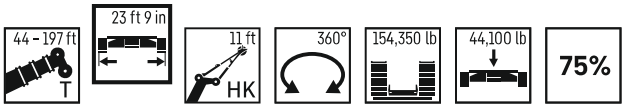
Lifting heights
Hauteurs de levage

THK



Lifting capacities
Forces de levage

THK



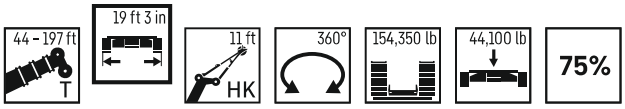
	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
	11 ft												
10	90.9												10
11	90.9	90.9											11
12	90.9	90.9											12
13	90.9	90.9											13
14	90.9	90.9	90.9										14
15	90.9	90.9	90.9										15
16	90.9	90.9	90.9	90.9									16
17	90.9	90.9	90.9	90.9									17
18	90.9	90.9	90.9	90.9									18
19	90.9	90.9	90.9	90.9	90.9								19
20	90.9	90.9	90.9	90.9	90.9								20
22	90.9	90.9	90.9	90.9	90.9								22
24	90.9	90.9	90.9	90.9	90.9	90.9							24
26	90.9	90.9	90.9	90.9	90.9	90.9							26
28	90.9	90.9	90.9	90.9	90.9	90.9	90.9						28
30	90.9	90.9	90.9	90.9	90.9	90.9	90.9						30
32	89.3	90.9	90.9	90.9	90.9	90.9	90.7	72.7					32
34	84.1	90.9	90.9	90.9	90.9	90.9	90.1	78.4					34
36	79	90.9	90.9	90.9	90.9	90.9	88.9	76.2					36
38	74.6	90.9	90.9	90.9	90.9	90.9	86.9	74.1					38
40	72.4	90	90.9	90.9	90.9	89.7	84	72.1	61.3	48.4			40
45	67.3	80.7	90.9	90.9	90.9	83.8	77	67.2	58.1	49.9	41.9		45
50		73.3	88.4	90.7	89.5	79.5	71.2	62.7	54.9	47.1	40.2	35.1	50
55		69.4	80.2	82	80.5	75.7	65.8	58.7	51.7	44.4	38.4	33.6	55
60		64.6	73.3	72.9	71.3	71.7	60.8	54.8	48.8	42	36.6	32	60
65			66	65.2	65.8	65.1	56.1	51.2	46.1	39.9	34.8	30.6	65
70			59.5	59.3	60.3	58.7	52.2	47.8	43.6	38.1	33.2	29.1	70
75			46.8	55.6	54.7	53.1	48.4	44.8	41.3	36.4	31.6	27.7	75
80				50.8	49.8	48.3	45.1	42.3	39.2	34.7	30.1	26.4	80
85				46.5	45.6	44	41.9	40.3	37.1	33	28.7	25.2	85
90				29.2	41.9	40.3	38.7	38	35.2	31.4	27.4	24	90
95					38.5	37	35.9	35.8	33.3	30	26.2	22.9	95
100					35.2	34	34.5	33.5	31.5	28.6	25	21.8	100
105						31.3	32.4	30.8	29.8	27.4	24	20.8	105
110						30.1	30	28.4	28.1	26.2	22.9	19.9	110
115						27.5	27.7	26.8	26.6	25.1	22	19	115
120							25.8	25.1	24.9	23.9	21.1	18.1	120
125							23.9	23.6	23	22.6	20.2	17.4	125
130							21	22.7	21.3	20.9	19.4	16.6	130
135								21.2	20.2	19.8	18.6	15.9	135
140								19.8	19.1	18.3	17.8	15.3	140
145								15	17.8	16.9	16.7	14.6	145
150									17.1	15.7	15.4	14	150
155									15.7	15	14.3	13.4	155
160									9.1	14.2	13.2	12.9	160
165										13.2	12.1	12.1	165
170										11.4	11.1	11.1	170
175											10.2	10.2	175
180											9.5	9.4	180
185											7.5	8.8	185
190												8.1	190
195												7.3	195
200												3.3	200

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GUAY

Lifting capacities
Forces de levage

THK



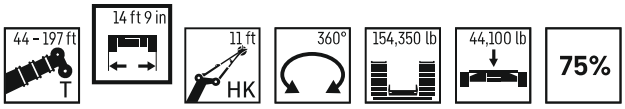
	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
	11 ft												
10	90.9												10
11	90.9	90.9											11
12	90.9	90.9											12
13	90.9	90.9											13
14	90.9	90.9	90.9										14
15	90.9	90.9	90.9										15
16	90.9	90.9	90.9	90.9									16
17	90.9	90.9	90.9	90.9									17
18	90.9	90.9	90.9	90.9									18
19	90.9	90.9	90.9	90.9	90.9								19
20	90.9	90.9	90.9	90.9	90.9								20
22	90.9	90.9	90.9	90.9	90.9								22
24	90.9	90.9	90.9	90.9	90.9	90.9							24
26	90.9	90.9	90.9	90.9	90.9	90.9							26
28	90.9	90.9	90.9	90.9	90.9	90.9	90.9						28
30	90.9	90.9	90.9	90.9	90.9	90.9	90.9						30
32	89.3	90.9	90.9	90.9	90.9	90.9	90.7	72.7					32
34	84.1	90.9	90.9	90.9	90.9	90.9	90.1	78.4					34
36	79	90.9	90.9	90.9	90.9	90.9	88.9	76.2					36
38	74.6	90.9	90.9	90.9	90.9	90.9	86.9	74.1					38
40	72.4	90	90.9	90.9	90.9	89.7	84	72.1	61.3	48.4			40
45	67.3	80.7	90.7	89.8	88.7	83.8	77	67.2	58.1	49.9	41.9		45
50		73.3	78.8	78.1	76.8	77.3	71.1	62.7	54.9	47.1	40.2	35.1	50
55		68.4	68.7	68.4	69.4	68	64.9	58.7	51.7	44.4	38.4	33.6	55
60		60.2	60.6	62.1	61.3	59.9	58.3	54.8	48.8	42	36.6	32	60
65			55.4	55.3	54.6	53.1	51.7	50.5	46.1	39.9	34.8	30.6	65
70			49.8	49.7	48.9	47.6	47.1	46.3	43.6	38.1	33.2	29.1	70
75			45	45	44.1	42.8	43	42.4	41.2	36.4	31.6	27.7	75
80				40.8	40	38.9	39.7	38.3	38.2	34.7	30.1	26.4	80
85				37.3	36.5	36.7	36.1	35.6	34.6	33	28.7	25.2	85
90				29.2	33.4	34.3	33	32.5	32	31.4	27.4	24	90
95					30.8	31.6	30.2	30.1	29.6	29.1	26.2	22.9	95
100					29.8	29.1	28.1	28.3	27.7	26.7	25	21.8	100
105						26.9	25.9	26.1	25.6	24.9	23.9	20.8	105
110						25	24.7	24.1	23.6	22.9	22.6	19.9	110
115						23.2	23.6	22.3	22.3	21.4	20.8	19	115
120							21.9	21	20.6	20	19	18.1	120
125							20.4	19.4	19	18.4	17.4	17.2	125
130							19	18.5	17.5	17	16	15.9	130
135								17.5	16.3	15.6	14.6	14.6	135
140								16.2	15.3	14.4	13.4	13.4	140
145								15	14.1	13.2	12.2	12.2	145
150									13.1	12.2	11.1	11.1	150
155									12.1	11.2	10.1	10.1	155
160									9.1	10.3	9.2	9.2	160
165										9.4	8.4	8.3	165
170										8.7	7.5	7.5	170
175											6.8	6.8	175
180											6.1	6	180
185											5.4	5.4	185
190												4.7	190
195												4.1	195
200												3.3	200

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GUAY

Lifting capacities
Forces de levage

THK



	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
	11 ft												
36		90.3		84.3									36
38	74.6	87.7	84.9	83.1	73.5								38
40	72.4	81.5	80.9	78.6	70.7								40
45	67.3	69.9	70.1	69.5	66.9	59.7							45
50		60.1	61.9	61.8	61.1	58.8	54.2	47.2					50
55		53.2	54.2	54.1	53.3	52.9	51.1	46.6	41.9				55
60		46.8	47.8	47.7	47	47.5	46.7	43.5	41.2	38.1	34.8		60
65			42.6	42.5	42.2	42.6	41.7	40.4	38.6	35.9	32.6	30.5	65
70			38.2	38.1	39.1	38.3	37.6	37.4	35.7	33.8	30.5	28.7	70
75			34.4	34.3	35.3	34.5	34.5	34.1	32.8	31.5	28.6	27	75
80				31.7	32	31.2	31.7	30.8	30.2	28.9	26.8	25.3	80
85				29.5	29.2	28.9	28.8	28.5	27.7	26.3	24.7	23.7	85
90				27	26.7	27	26.3	26.2	25.4	24	22.5	21.8	90
95					24.5	24.8	24.1	24	23.2	22	20.5	19.9	95
100					22.6	22.8	22.3	22	21.1	20.1	18.6	18.1	100
105						21	20.6	20.2	19.2	18.3	17	16.5	105
110						19.4	18.9	18.4	17.5	16.6	15.4	15	110
115						17.9	17.4	16.9	16	15.1	14	13.6	115
120							16	15.5	14.5	13.7	12.7	12.4	120
125							14.7	14.2	13.2	12.4	11.4	11.2	125
130							13.5	13	12	11.2	10.2	10.1	130
135								11.9	11	10.1	9.1	9.1	135
140								10.9	10	9.1	8.1	8.1	140
145								10	9	8.1	7.1	7.1	145
150									8.2	7.3	6.3	6.2	150
155									7.4	6.5	5.5	5.4	155
160									6.7	5.7	4.7	4.7	160
165										5	4	3.9	165
170										4.4	3.3	3.3	170
175											2.7	2.6	175

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Equipment

Crawler travel gear

Frame	Low torsion box construction, consisting of crawler center section, two traverse beams and two crawler carriers. The crawler carriers can be removed from the telescoping traverse beams. Hydraulic track width adjustment.
Tracks	Low maintenance crawler travel gear with 3 ft 3 inch wide flat base plates.
Travel drive	Per crawler carrier, a hydraulic travel drive consisting of an axial piston motor, planetary gear with spring-loaded hydraulically-releasable travel brake. The crawler chains can be controlled synchronously as well as independently and counter-rotating. Travel speed: 0 – 1.18 mph.
Central ballast	44,100 lb, placement blocks at 22,050 lb each, mounting on crawler center section.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane engine	Diesel, 4 cylinder, watercooled, make Liebherr, output 230 kW (312 h.p.), max. torque 1062 lb-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96. Fuel tank capacity: 185 gallons.
Crane drive	Diesel-hydraulic, with 5 axial piston variable displacement pumps, with servo-control and capacity control, 1 double gear pump. Compact hydraulic drive flanged to the Diesel engine. Drive assembly completely enclosed for noise abatment.
Control	Electronic control by the LICCON computer system (PLC control), two self-centering control levers (joy-sticks). Infinitely variable crane motions through displacement control of the hydraulic pump. Additional working speed control by variation of the Diesel engine.
Hoist gear	Axial piston variable displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake. Actuation by closed regulated oil circuit.
Luffing gear	1 differential ram with nonreturn valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses.
Telescopic boom	1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system Telematik. Boom length 44 ft to 197 ft.
Counterweight	110,250 lb
Electrical system	Modern data bus technique, 24 Volt DC.

Additional equipment

HK	Assembly jib 11 ft.
K	Double swing-away jib 40 ft – 72 ft. Mechanical adjustment 0°; 22.5°; 45°.
NZK	Double swing-away jib 40 ft – 72 ft. Hydraulic adjustment 0° – 45°.
V	Telescopic boom extension 1 x 23 ft.
2nd hoist gear incl. self mounting device	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Additional counterweight	2 additional counterweight slabs of 22,050 lb each for a total counterweight of 154,350 lb.

Other items of equipment available on request.

Equipement

Train de chenilles

Châssis	Construction en caisson indéformable haute résistance, constitué de la partie centrale du train de roulement, deux traverses et de deux longerons. Les longerons peuvent être démontés des traverses télescopiques. Réglage hydraulique de la voie.
Train de roulement	Chenilles nécessitant peu d'entretien avec une plaque support plate de 3 ft 3 inch de large.
Transmission	Une transmission hydraulique par longeron, comprenant un moteur à cylindrée variable et pistons axiaux, un réducteur planétaire avec frein à ressort et à déblocage hydraulique. Les chaînes sont synchrones, indépendantes et une commande inversée est possible. Vitesse de translation: 0 – 1.18 mph.
Contrepoids central	44,100 lb, blocs de suspension de 22,050 lb chacun, fixation sur la partie centrale du train de roulement.

Partie tournante

Châssis	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
Moteur	Diesel, 4 cylindres, marque Liebherr, refroidissement par eau, puissance 230 kW (312 ch), couple maxi. 1062 lb-ft. Emissions des gaz d'échappement conformes au directive (EU) 2016/1628, EPA/CARB ou ECE-R.96. Capacité du réservoir carburant: 185 gallons.
Entraînement de la grue	Diesel hydraulique avec 5 pompes à débit variable à pistons axiaux, servocommande et régulation de la puissance, 1 double pompe à engrenages. Entraînement hydraulique compact, accouplé directement au moteur Diesel, mécanisme d'entraînement total fermé pour une bonne insonorisation.
Commande	Commande électronique par l'ordinateur LICCON (commande SPS). 2 leviers à 4 directions avec rappel automatique au point mort. Commande des mouvements progressive en continu par variation de l'inclinaison des pompes et augmentation du régime moteur.
Mécanisme de levage	Moteur hydraulique à cylindrée variable, treuil de marque Liebherr avec réducteur planétaire à frein d'arrêt à lamelles intégrées, en circuit hydraulique fermé.
Mécanisme de relevage	1 vérin hydraulique différentiel avec clapets anti-retour de sécurité.
Dispositif de rotation	Moteur à cylindrée constante à pistons axiaux, engrenage planétaire, frein d'arrêt commandé par ressort.
Cabine du grutier	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, fin de course crochet haut, clapets de sécurité en cas de ruptures de flexibles.
Flèche télescopique	Un élément de base et de 5 télescopes. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide Telematik. Longueur de flèche: 44 ft – 197 ft.
Contrepoids	110,250 lb
Installation électrique	Technique moderne de transmission de données. Courant continu 24 Volts.

Equipement supplémentaire

HK	Flechette de montage 11 ft.
K	Double flechette pliante 40 ft – 72 ft. Reglage mecanique 0°; 22.5°; 45°.
NZK	Double flechette pliante 40 ft – 72 ft. Reglage hydraulique 0° – 45°.
V	Rallonge flèche télescopique 1 x 23 ft.
2ème mécanisme de levage avec dispositif de montage autonome	Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec fléchette pliante lorsque le câble de levage principal rest mouflé.
Contrepoids supplémentaire	2 x 22,050 lb pour un contrepoids total de 154,350 lb.

Autres équipements supplémentaires sur demande.

Description of symbols
Explication des symboles



Max. capacity
Capacité max.



Max. hoist height
Hauteur de levage max.



Max. radius
Portée max.



Driving force
Puissance propulsive



Total weight
Poids total



Ground pressure
Pression au sol



Driving speed
Vitesse de translation



Gradability
Aptitude à gravir les pentes



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



Hookblock/Capacity
Moufle à crochet/Capacité de charge



No. of sheaves
Poulies



No. of lines
Brins



Weight
Poids



infinitely variable
en continu



Radius
Portée



Width crawler chassis
Largeur du train de chenilles



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



over front / over rear ±10°
en avant / en arrière ±10°



Counterweight
Contrepoids



Central ballast
Contrepoids central



Standard
Norme



Telescopic boom
Flèche télescopique



Hydraulic swing away jib
Fléchette pliante hydraulique



Telescopic boom extension
Rallonge flèche télescopique



Assembly jib
Flechette de montage

Remarks

1.	The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2.	For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3.	The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4.	Lifting capacities are given in kip.
5.	The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6.	Working radii are measured from the slewing center.
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.	Lifting capacities above 295,400 lb / 332,900 lb only with additional pulley block/special equipment.
10.	Subject to modification of lifting capacities.
11.	Lateral inclination ± 0.3°.
12.	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.
13.	The illustrations in this brochure may feature accessories and special equipment not included in the standard scope of delivery.

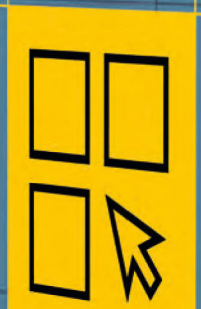
Remarques

1.	La capacité de charge ne doit pas dépasser 75 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2.	Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3.	Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4.	Les charges sont indiquées en kip.
5.	Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
6.	Les portées sont calculées à partir de l'axe de rotation.
7.	Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.
8.	Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
9.	Les charges supérieures à 295,400 lb / 332,900 lb seulement avec moufle additionnel/équipement supplémentaire.
10.	Charges données sous réserve de modification.
11.	Inclinaison latérale ± 0,3°.
12.	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.
13.	Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

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Our MyLiebherr portal is the easy way for you to access Liebherr's digital service world.
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One portal, all services
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Planning
Crane Finder



Operations
Performance



Planning
Crane Planner 2.0



Operations
Documents



Maintenance
Spare Parts Catalogue



Planning
LICCON Work Planner



Training
Digital Crane Operator



Maintenance
Parts Shop

Proposition 65



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

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