

The optimum of the telescopic crawler crane class

LTR 1220

Telescopic crawler crane
Grue télescopique sur chenilles

LIEBHERR

Mobile and crawler cranes



Technical data

Caractéristiques technique

Dimensions

Encombrement	4-5
--------------------	-----

Telescopic crawler crane

Grue télescopique sur chenilles	6-7
---------------------------------------	-----

Transportation plan

Plan de transport	8-15
-------------------------	------

Comfort and functionality

Confort et fonctionnalité	16
---------------------------------	----

High safety

Haute sécurité	17
----------------------	----

Great operational diversity

Grande polyvalence	18-19
--------------------------	-------

Maximum load capacity over the fully extended crawler

Capacité de charge maximale sur longerons complètement sortis	20
---	----

Intelligent crane control

Commande intelligente de la grue	21
--	----

Crane data

Dates de la grue	22
------------------------	----

Overview of load charts

Aperçu des tableaux de charge	23-24
-------------------------------------	-------

Boom/jib combinations

Configurations de flèche	25
--------------------------------	----

T	26-29
---------	-------

TNZK	30-56
------------	-------

TVNZK	57-83
-------------	-------

THK	84-87
-----------	-------

Equipment

Equipement	88-89
------------------	-------

Description of symbols

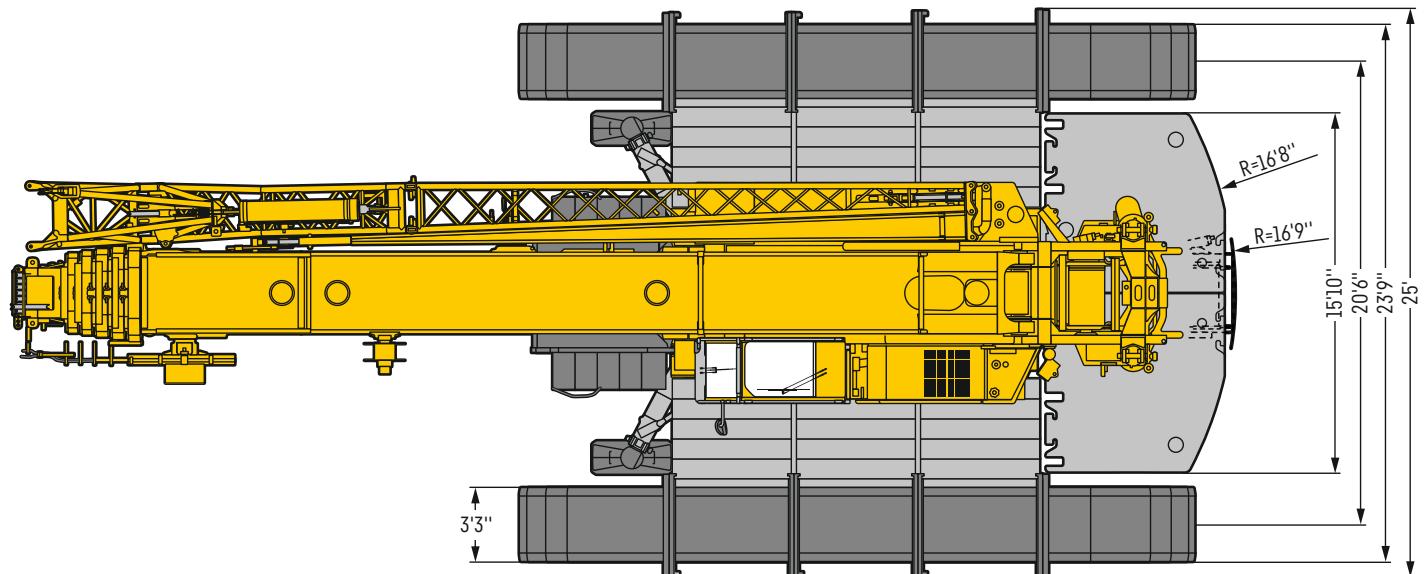
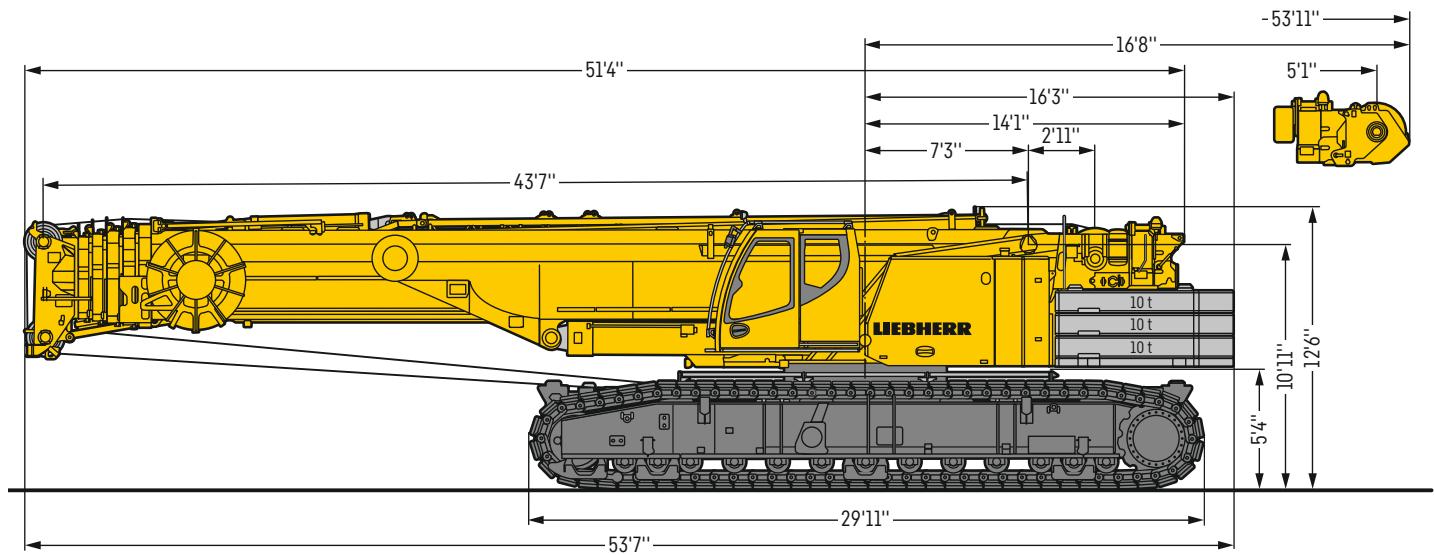
Explication des symboles	90
--------------------------------	----

Remarks

Remarques	91
-----------------	----

Dimensions

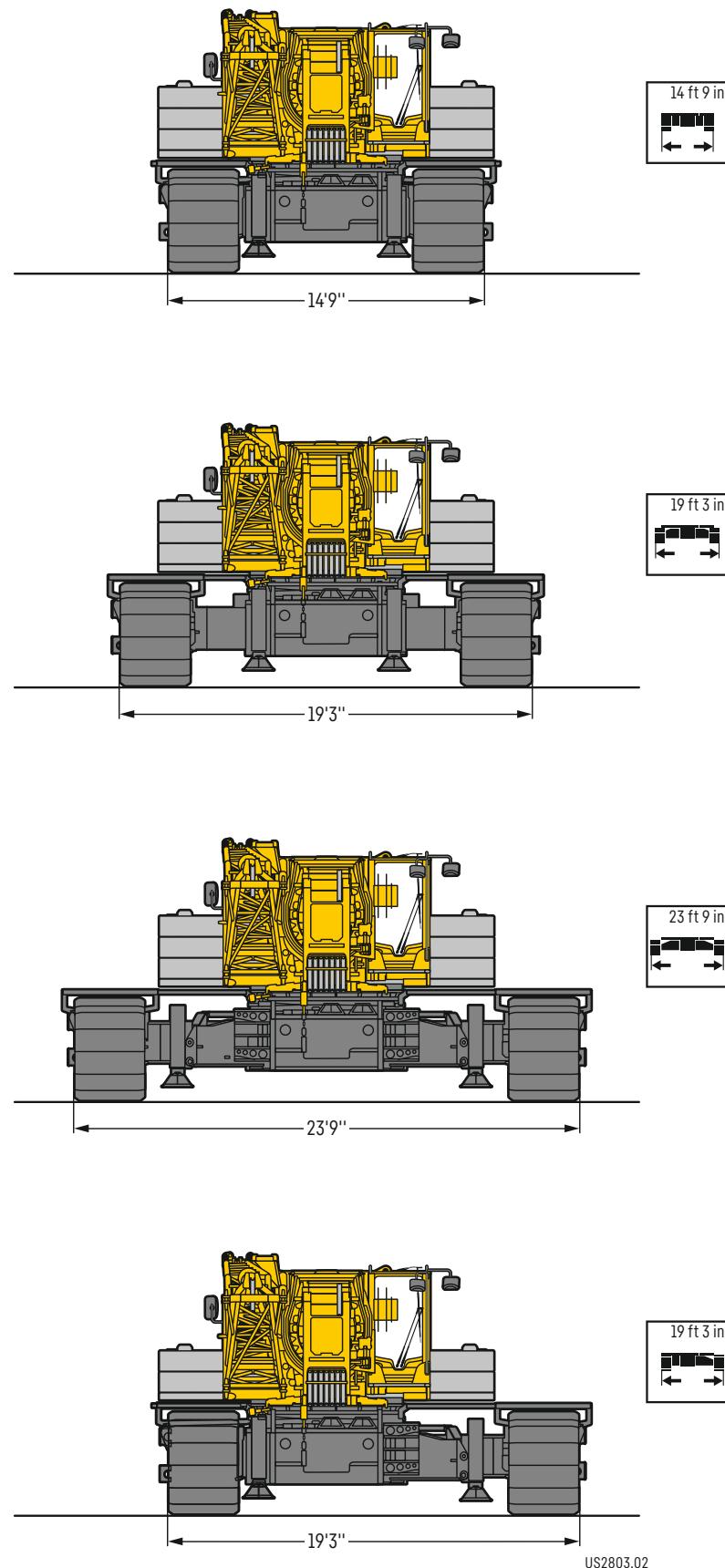
Encombrement



US2786.02

Dimensions

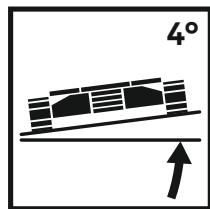
Encombrement



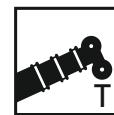
US2803.02

LTR 1220





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



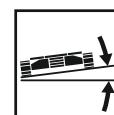
197 ft



40 ft - 118 ft



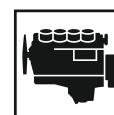
1 x 23 ft



max. 4°



11 ft



**230 kW
(312 h.p.)**



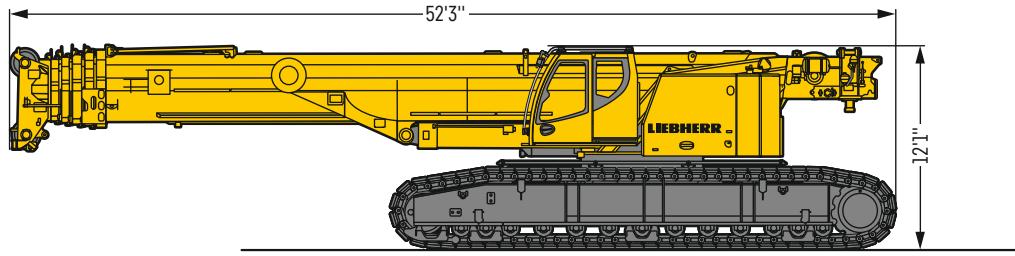
Transportation plan

Plan de transport

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

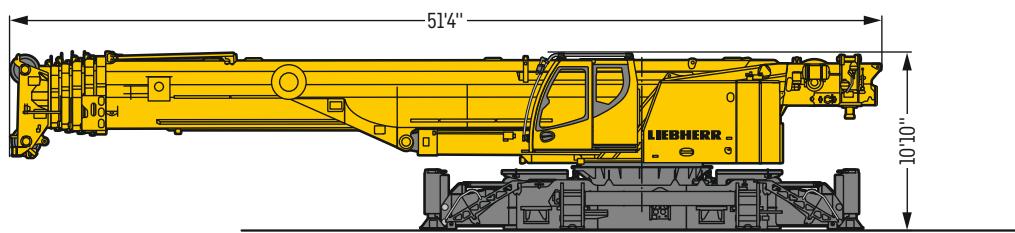
Basic machine, width 16 ft 5 in Flat crawler pads 3 ft 3 in
Machine de base, largeur 16 ft 5 in, Tuiles plates 3 ft 3 in

201,300 lb



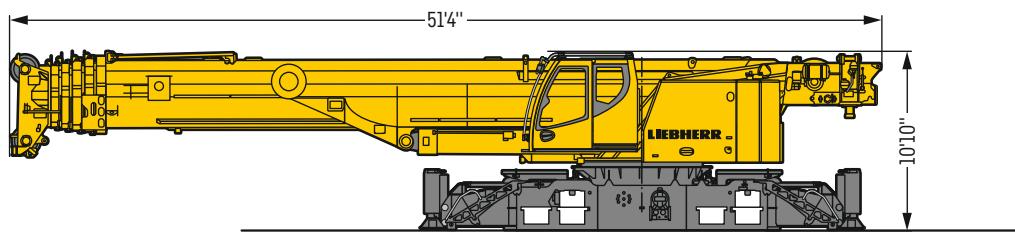
Basic machine, width 9 ft 10 in, with jack-Up cylinder and traverse beam
Machine de base, largeur 9 ft 10 in, avec verin Jack-Up, avec traverse

122,350 lb



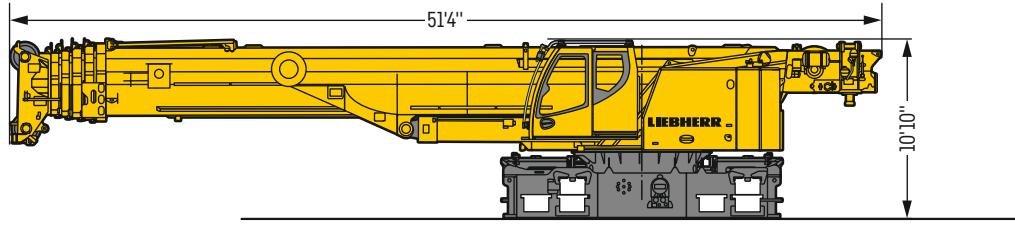
Basic machine, width 9 ft 10 in with jack-Up cylinder, without traverse beam
Machine de base, largeur 9 ft 10 in avec verin Jack-Up, sans traverse

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



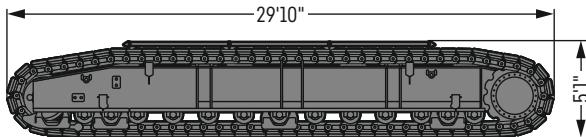
US2626.03

Transportation plan

Plan de transport

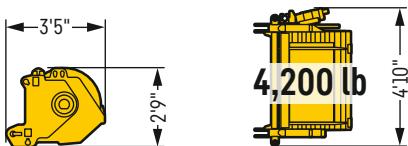
Crawler carrier, Flat crawler pads, width 3 ft 3 in
Longerons, Tuiles plates, largeur 3 ft 3 in

39,500 lb (2x)



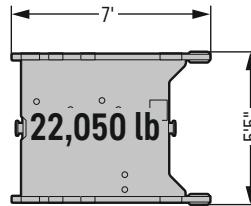
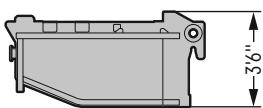
Winch 2 incl. rope and self mounting device
Treuil 2 avec cable et dispositif de montage autonome

(1x)



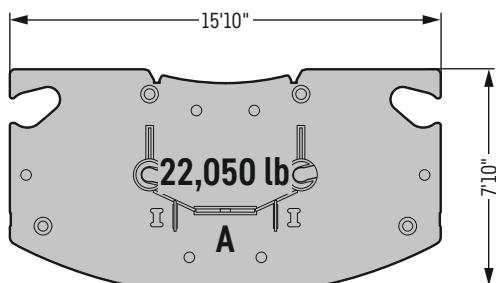
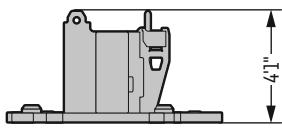
Center counterweight
Contrepoids de base

(2x)



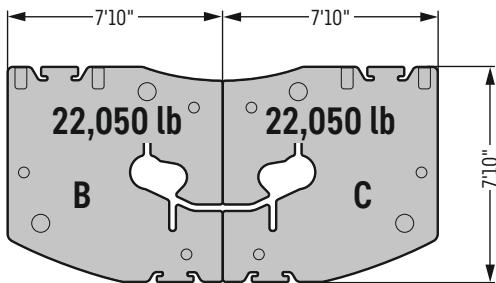
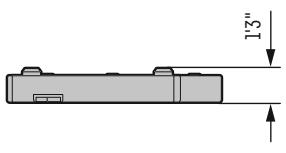
Part A / Partie A
Superstructure ballast
Contrepoids de la partie tournante

(1x)



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

(3x + 3x)



US2627.02



110,250 lb
154,350 lb

Part A · Partie A
à 22,050 lb

1x
1x

Part B · Partie B
à 22,050 lb

2x
3x

Part C · Partie C
à 22,050 lb

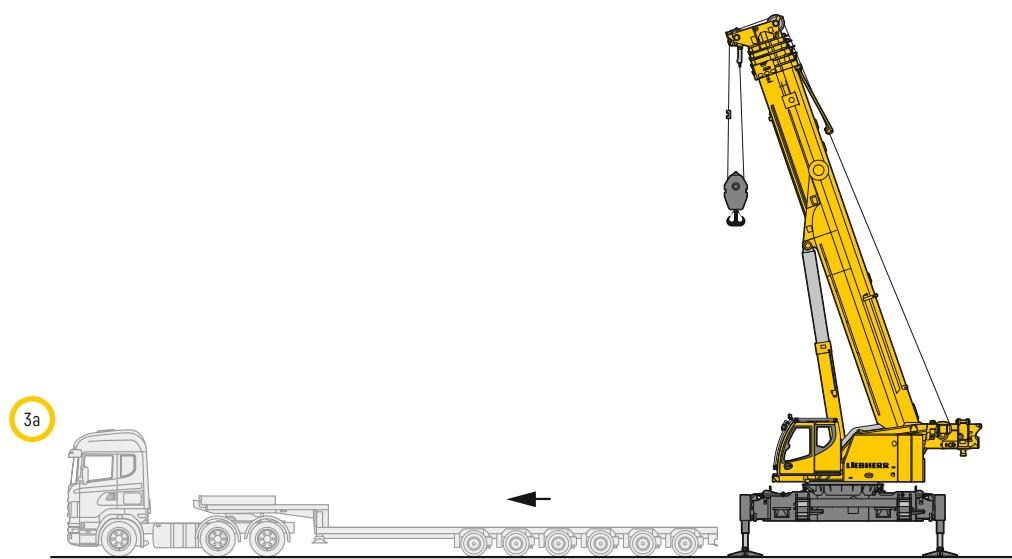
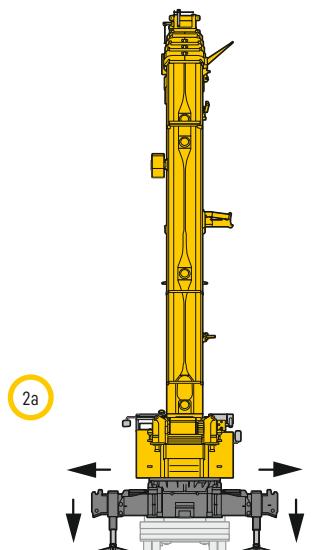
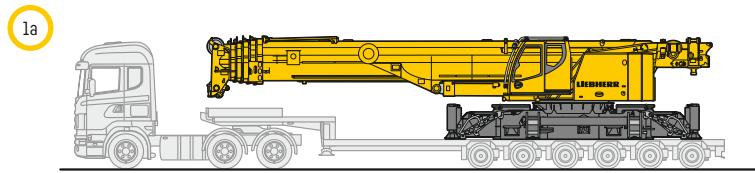
2x
3x

* optional - en option

Transportation plan A

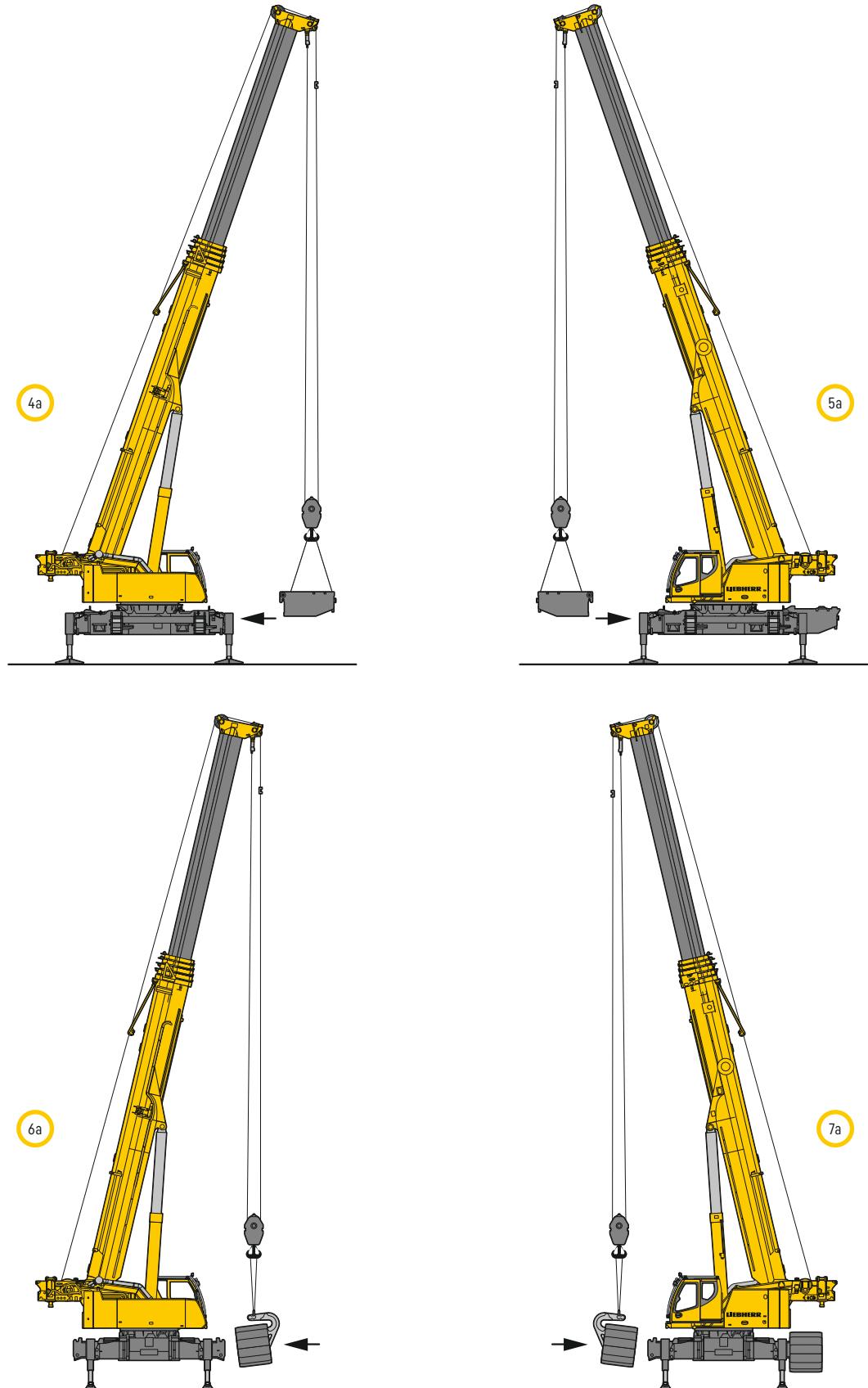
Plan de transport A

~ 122,350 lb



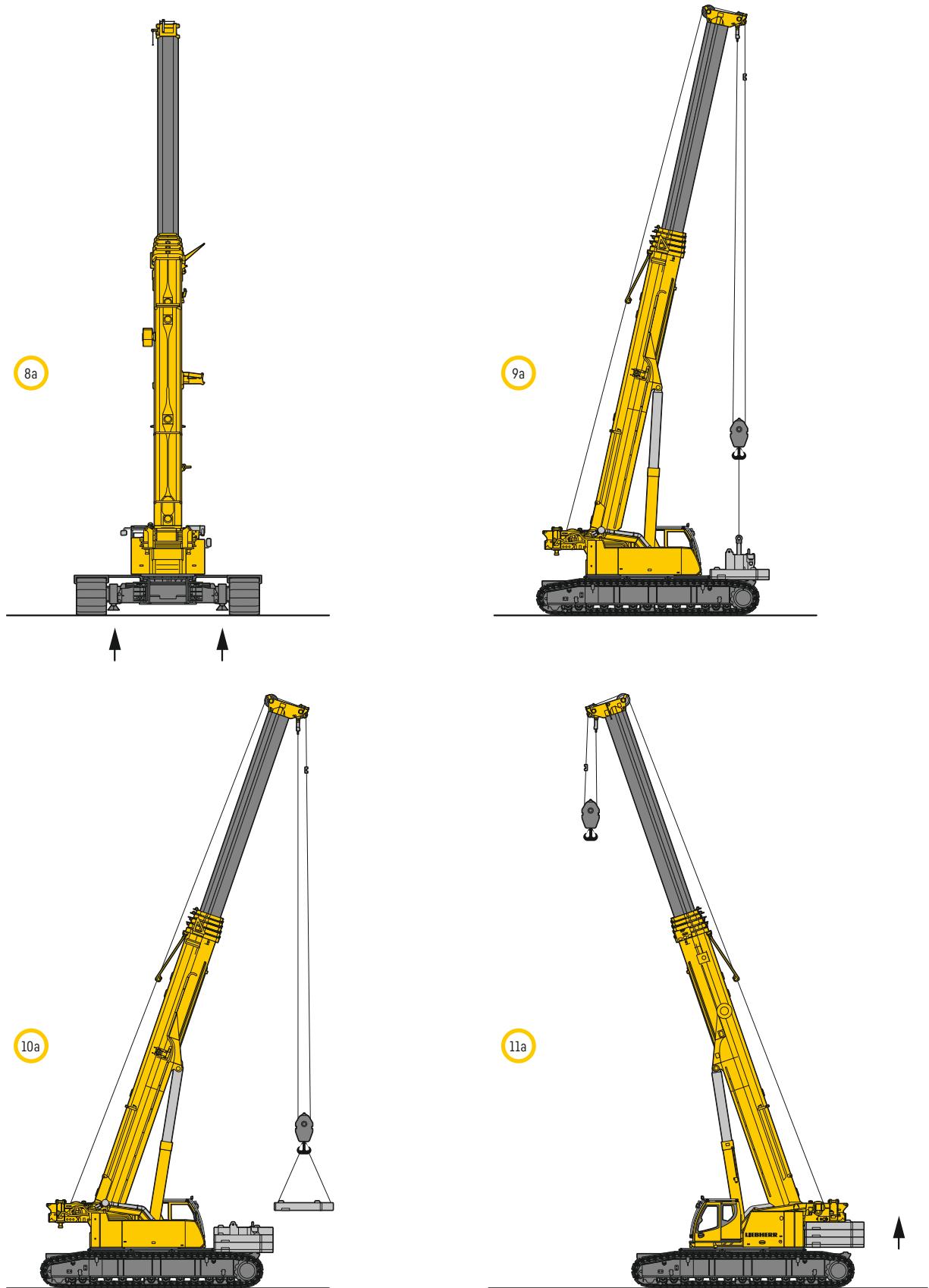
Transportation plan A

Plan de transport A



Transportation plan A

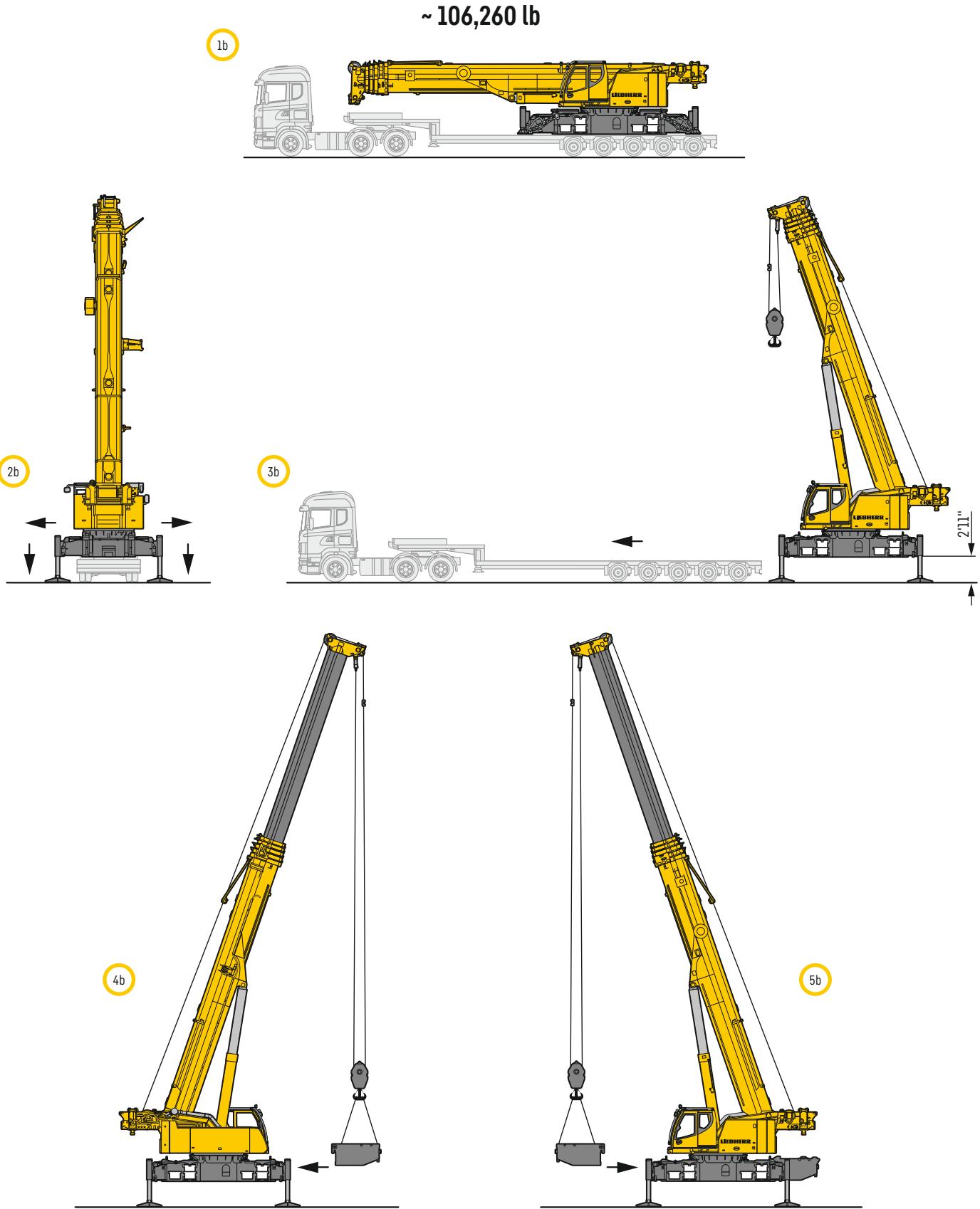
Plan de transport A



US2628.02

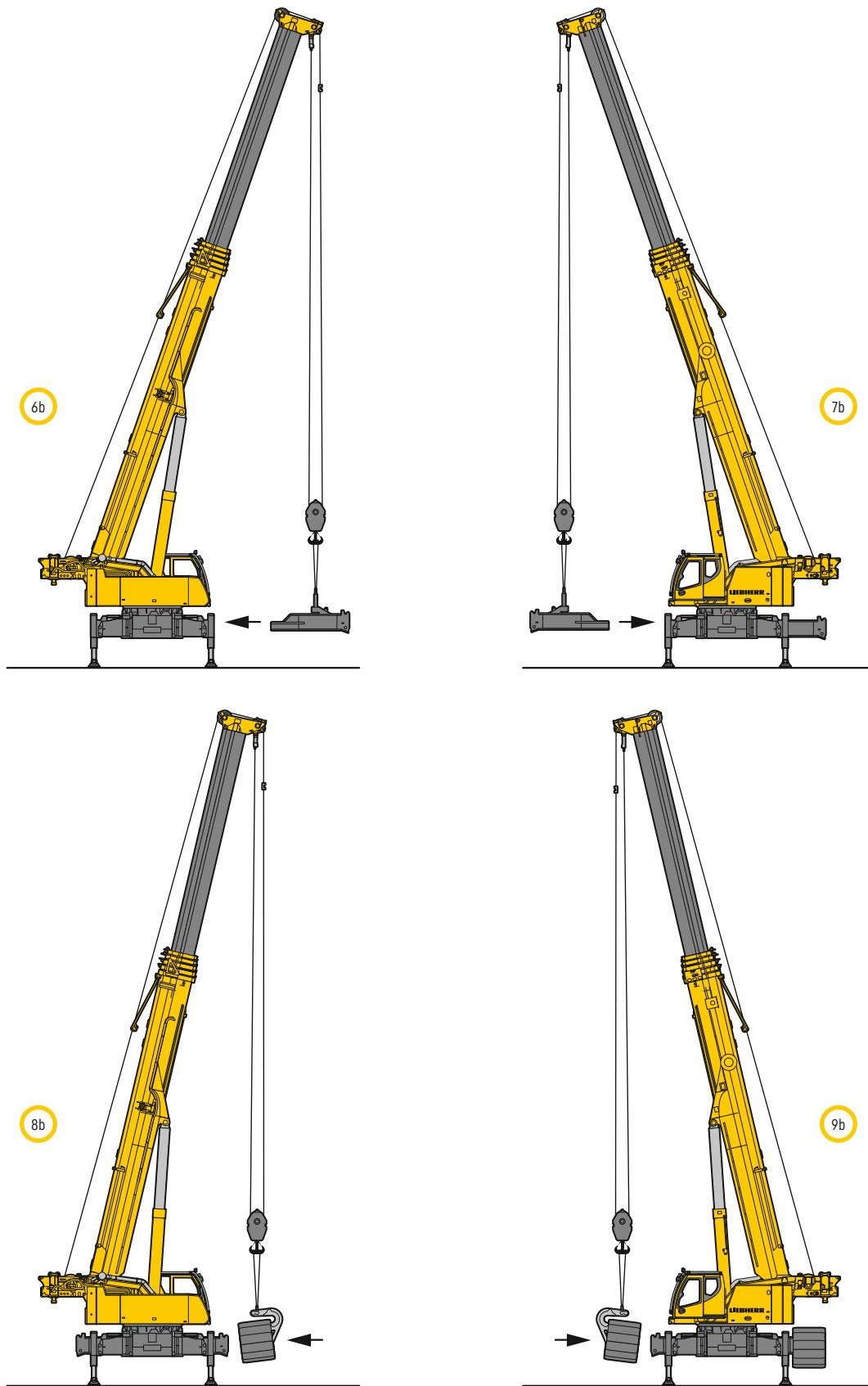
Transportation plan B

Plan de transport B



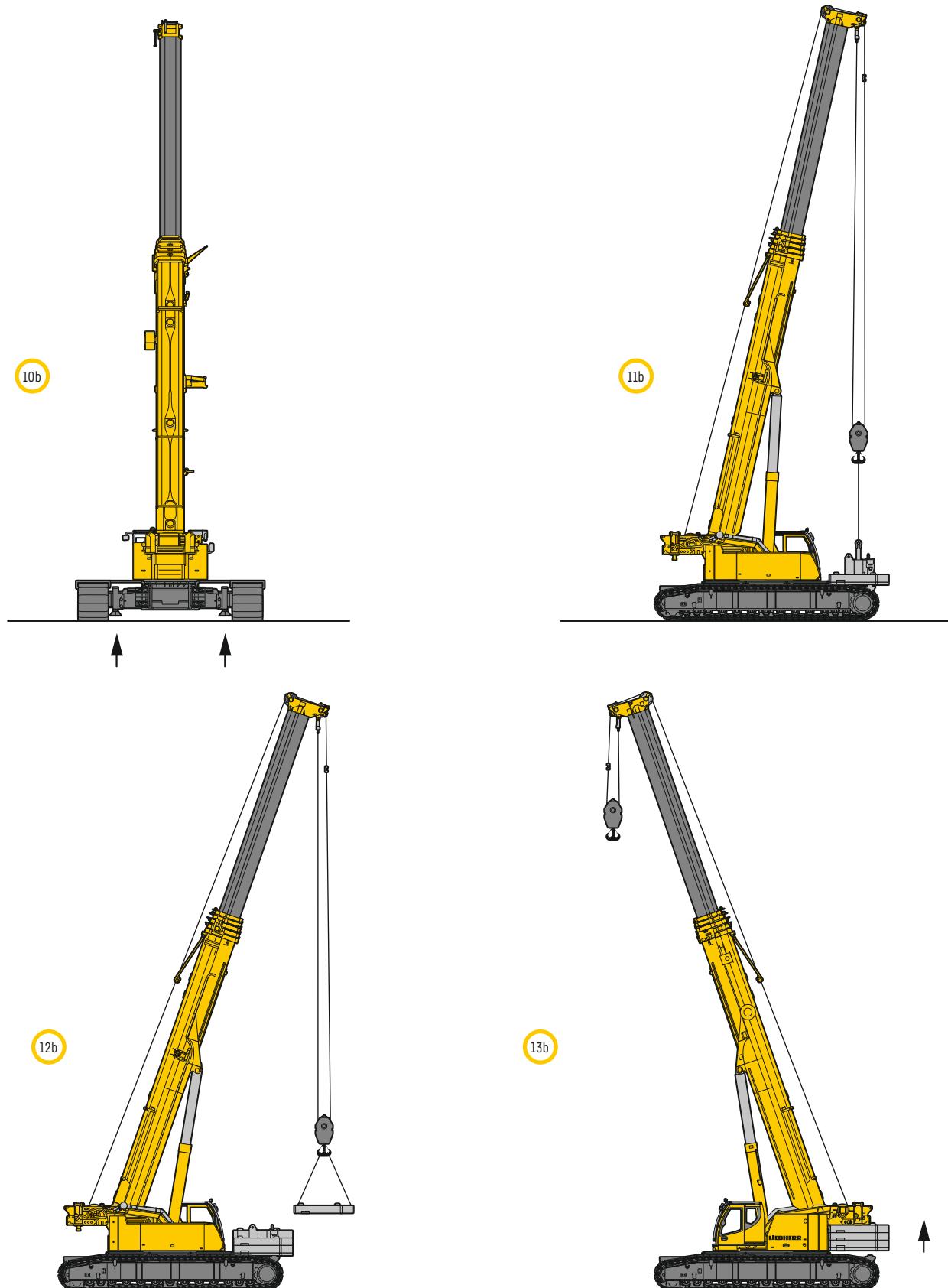
Transportation plan B

Plan de transport B



Transportation plan B

Plan de transport B



S2762.01

Comfort and functionality

Confort et fonctionnalité

Self-mounting of ballast and optional hoist gear 2

Montage autonome du contrepoids et mécanisme de levage 2 en option



Fast, easy erection

Montage rapide et simple

The hydraulic connection to the crawler travel gear is made automatically by a quick-release coupler when the crawler carriers are installed.

Le raccord hydraulique avec les chenilles se fait automatiquement avec un raccord rapide lors du montage des chenilles.



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.



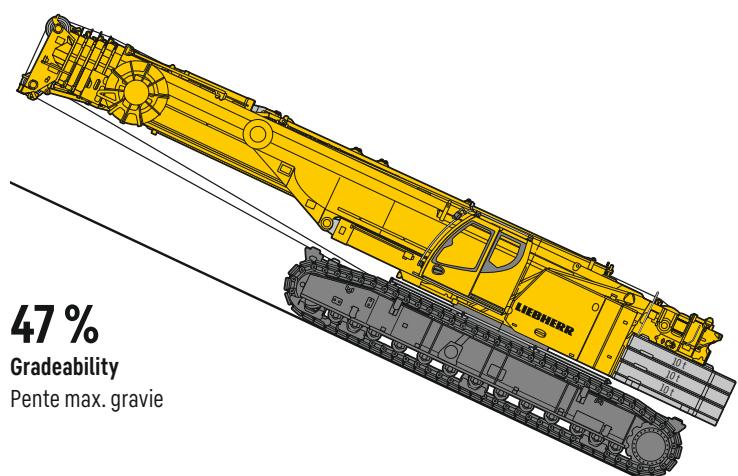


Crane operation with side inclination

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°.



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.

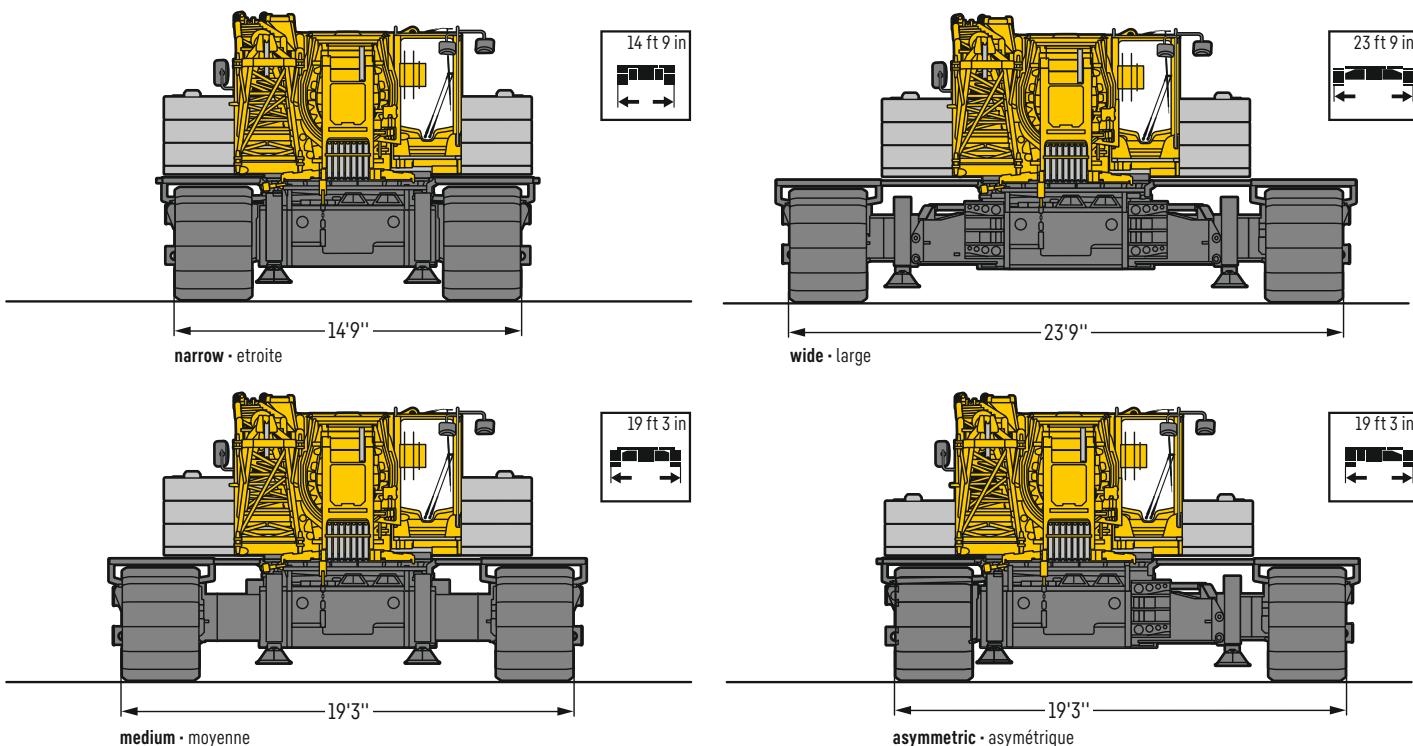
Grâce à son excellent comportement en tout-terrain et sa souplesse de déplacement à pleine charge, la LTR 1220 permet une utilisation extrêmement flexible.

Telescopicable crawlers

Longerons télescopables

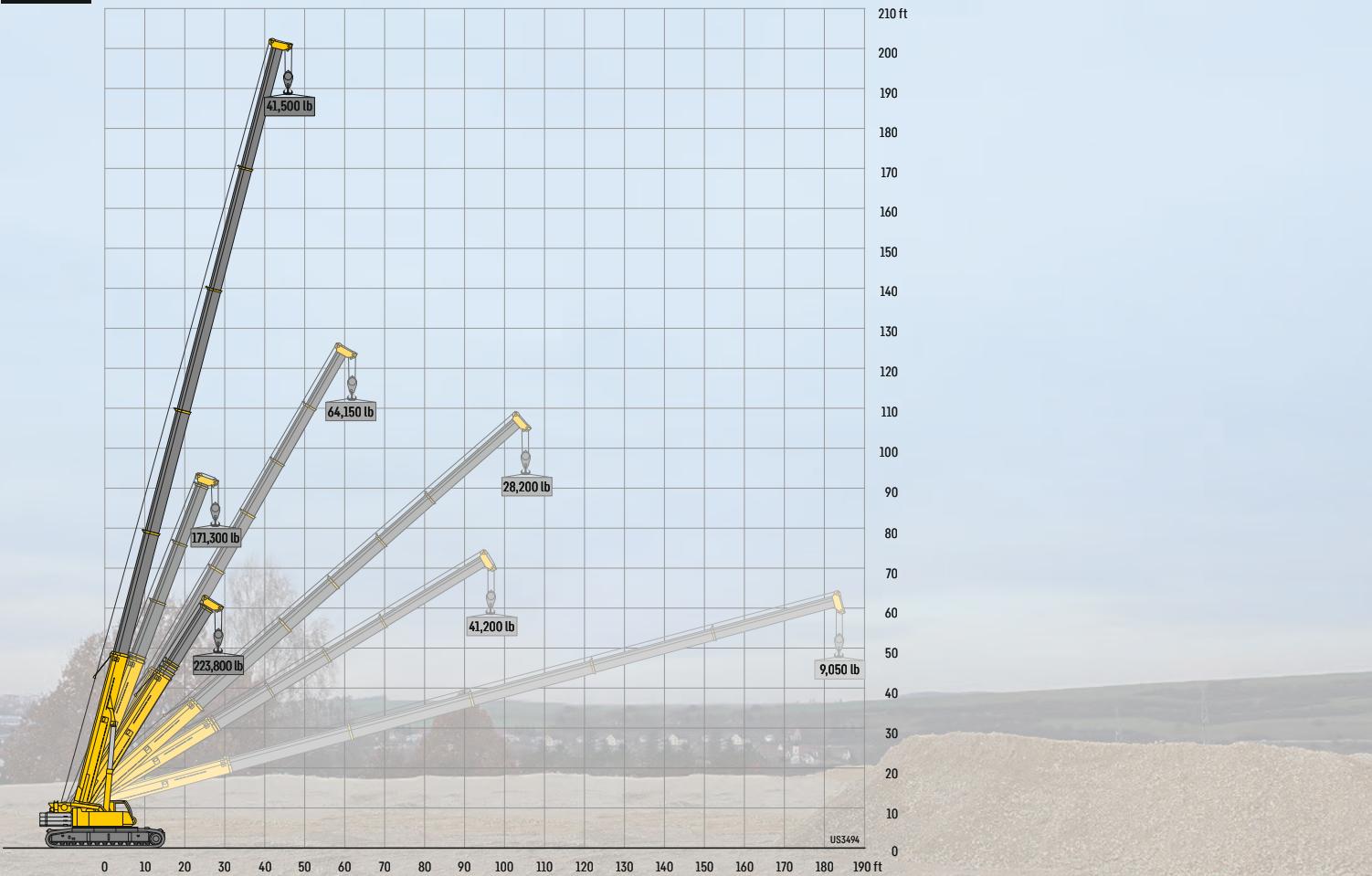
The chassis of the LTR 1220 can be hydraulically telescoped from the chassis width of 14 ft 9 inch to the intermediate width of 19 ft 3 inch or the maximum width of 23 ft 9 inch. Additionally the LTR 1220 also operates on an asymmetric track. Thus the full capacity can be utilised when working over the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



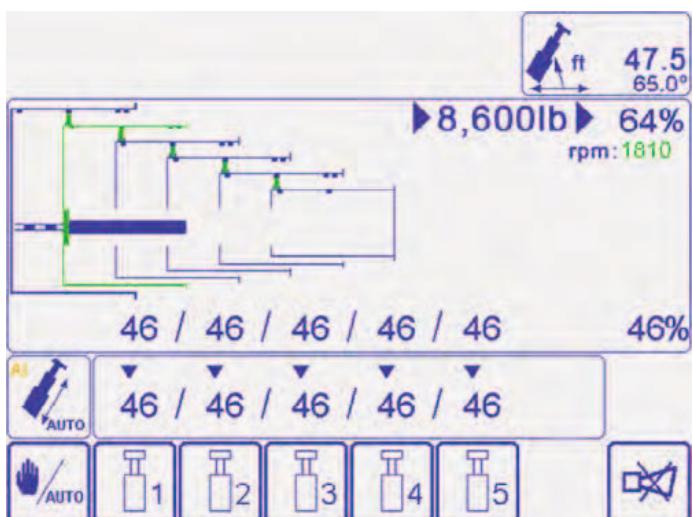
Maximum load capacity over the fully extended crawler

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 performed 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 improved 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 contre-poids 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/inch ²
	Travel speeds · Vitesses de translation	0 - 0.37 mph 0 - 1.55 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

				
	0 - 426 ft/min single line · au brin simple	23 mm	1150 ft	23605 lb
	0 - 426 ft/min single line · au brin simple	23 mm	920 ft	23605 lb
	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

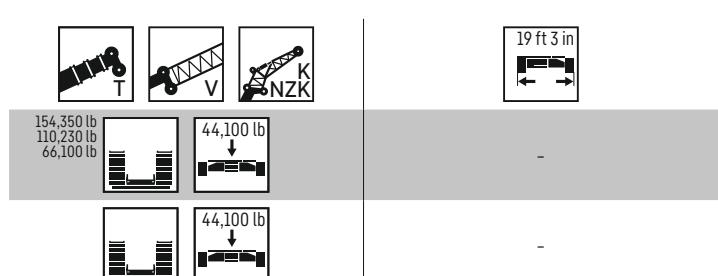
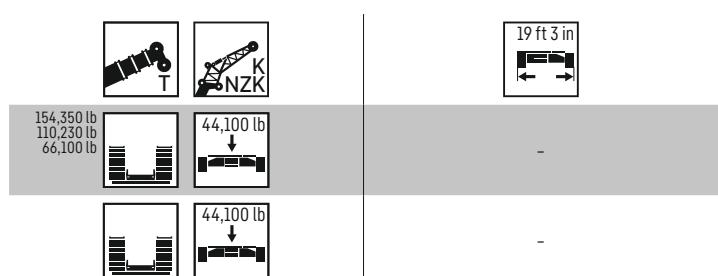
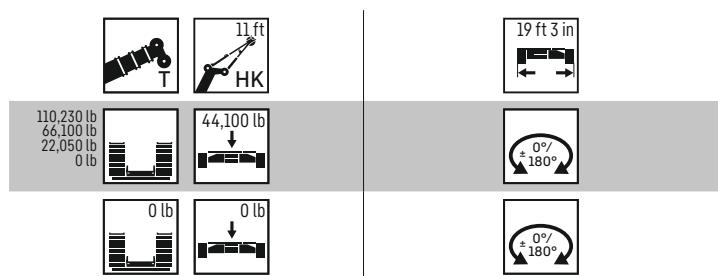
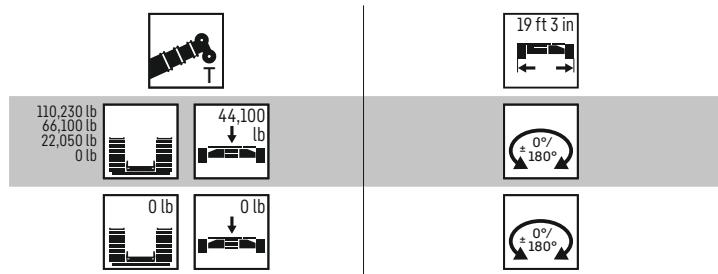
Aperçu des tableaux de charge

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

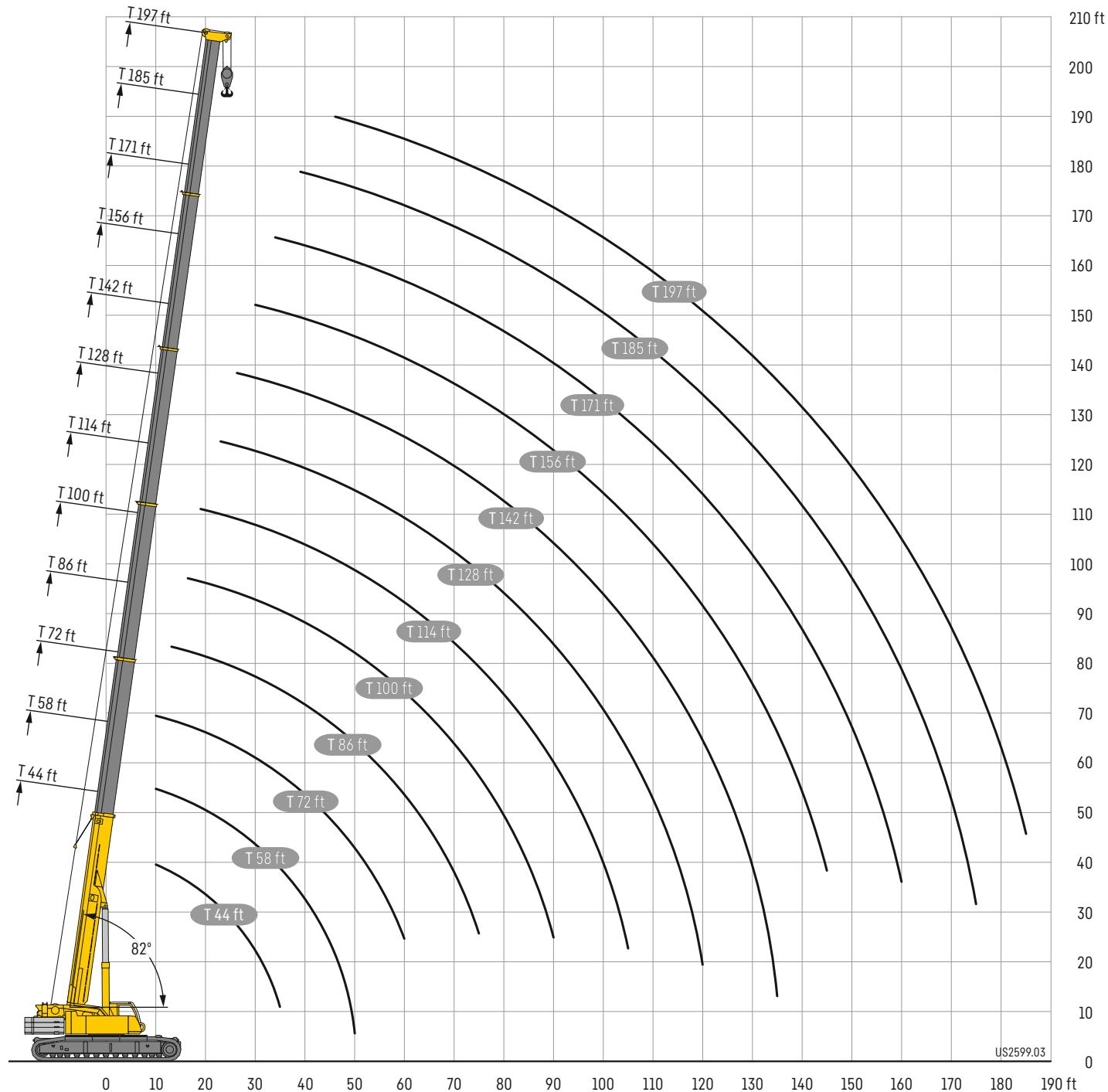
V Telescopic boom extension · Rallonge de flèche télescopique

HK Assembly jib · Fléchette de montage



Lifting heights

Hauteurs de levage



Lifting capacities

Forces de levage



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

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

t.242_00090_00_001 / 00100_00_001 / 00101_00_001 / 00102_00_001

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	

t_242_00110_00_001 / 00111_00_001 / 00112_00_001

Lifting capacities

Forces de levage

T



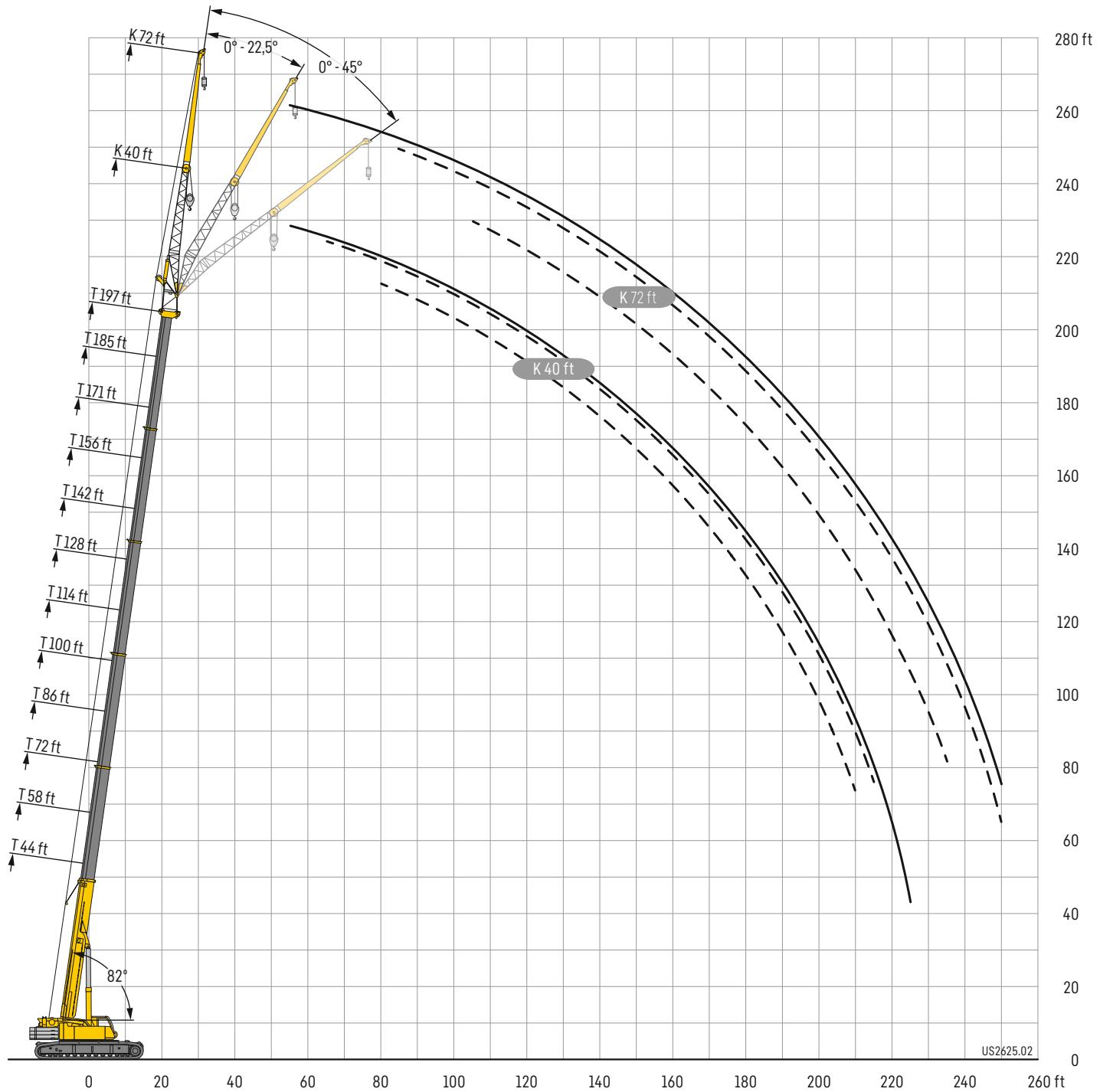
	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft		
10	294	237.9	189.2										10	
11	265.4	224	179.5										11	
12	237.6	209.6	170.6	135.9									12	
13	213.3	193.7	162.4	136.6									13	
14	193.9	179.2	155.1	132.1									14	
15	177.5	165.2	148.3	127.3									15	
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

t.242.00120_00_001 / 00121_00_001 / 00122_00_001

Lifting heights

Hauteurs de levage

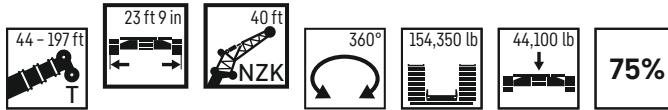
TNZK



Lifting capacities

Forces de levage

TNZK



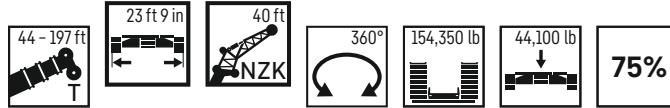
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft							
					40 ft																							
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°				
10	46.1																								10			
11	46.1			46.1																					11			
12	46.1			46.1																					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															19			
20	46.1			46.1			46.1			46.1															20			
22	46.1			46.1			46.1			46.1															22			
24	46.1	36.8		46.1			46.1			46.1															24			
26	46.1	35		46.1	36.6		46.1			46.1															26			
28	46.1	33.3		46.1	35.1		46.1			46.1															28			
30	45.7	31.8		46.1	33.7		46.1	34.5		46.1															30			
32	44.4	30.5		46.1	32.4		46.1	33.3		46.1															32			
34	42.9	29.3	23.2	46.1	31.2		46.1	32.2		46.1	33.2														34			
36	41.4	28.2	23.2	45.9	30.1	23.2	46	31.2		46.1	32.2														36			
38	39.5	27.2	23.1	44.7	29.1	23.2	45.8	30.2		45.6	31.3														38			
40	37.3	26.2	22.7	43	28.2	23.2	44.5	29.3	23.2	45.1	30.4														40			
45	32.5	24.1	21.5	38.5	26	22.3	40.7	27.3	22.7	43.2	28.4														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								120
125																14.1	14.1		15.7	15.6								125
130																	13.5			15.1	15							130
135																			14.5	14.4							135	
140																			14								140	
145																			13.5								145	

t_242_01000_00_000

Lifting capacities

Forces de levage

TNZK



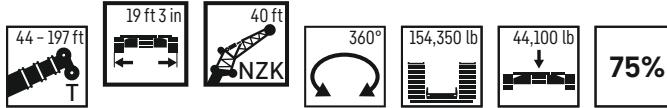
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft						
	40 ft																										
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
30	42.6			45.3																					30		
32	42.4			45.1																					32		
34	42.2			44.9																					34		
36	41.9			44.6																					36		
38	41.7			44.3																					38		
40	41.2			44																					40		
45	38.8			43																						45	
50	36	28.3		41.8	30.5																					50	
55	33.6	27	22.2	40.6	29																					55	
60	31.4	25.7	21.7	39.4	27.6	22.3																				60	
65	29.3	24.7	21.1	37.8	26.4	21.8																				65	
70	27.4	23.7	20.7	36	25.3	21.3																				70	
75	25.7	22.9	20.3	34.1	24.4	20.9																				75	
80	24.2	22.1	19.9	32.2	23.5	20.5																				80	
85	22.7	21.3	19.7	30.4	22.8	20.2																				85	
90	21.4	20.5	19.4	28.8	22	19.9																				90	
95	20.2	19.7	19.1	27.2	21.4	19.6																				95	
100	19.1	18.8	18.8	25.8	20.8	19.4																				100	
105	18.1	17.8	17.9	24.5	20.2	19.2																				105	
110	17.1	16.9	17.1	23.2	19.7	19.1																				110	
115	16.2	16.1	16.3	22.1	19.3	19																				115	
120	15.4	15.3	15.5	21	18.8	18.9																				120	
125	14.6	14.6	14.8	20	18.5	18.9																				125	
130	13.9	13.9	14.1	19.1	18.1	18.8																				130	
135	13.2	13.3	13.5	18.2	17.8	18.3																				135	
140	12.5	12.6	12.9	17.4	17.4	17.6																				140	
145	12	12.1		16.6	16.7	16.9																				145	
150	11.4	11.5		15.7	16	16.2																				150	
155	11			14.6	15.2	15.4																				155	
160	9.9			13.5	14																					160	
165				12.6	12.9																					165	
170				10.9	11.6																					170	
175				5.4																							175
180																											180
185																											185
190																											190
195																											195
200																											200
205																											205
210																											210
215																											215
220																											220
225																											225

t_242_01000_00_000

Lifting capacities

Forces de levage

TNZK



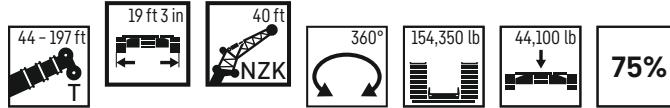
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft					
					40 ft																					
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°		
10	46.1																								10	
11	46.1			46.1																					11	
12	46.1			46.1																					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															19	
20	46.1			46.1			46.1			46.1															20	
22	46.1			46.1			46.1			46.1															22	
24	46.1	36.8		46.1			46.1			46.1															24	
26	46.1	35		46.1	36.6		46.1			46.1															26	
28	46.1	33.3		46.1	35.1		46.1			46.1															28	
30	45.7	31.8		46.1	33.7		46.1	34.5		46.1															30	
32	44.4	30.5		46.1	32.4		46.1	33.3		46.1															32	
34	42.9	29.3	23.2	46.1	31.2		46.1	32.2		46.1	33.2														34	
36	41.4	28.2	23.2	45.9	30.1	23.2	46	31.2		46.1	32.2														36	
38	39.5	27.2	23.1	44.7	29.1	23.2	45.8	30.2		45.6	31.3														38	
40	37.3	26.2	22.7	43	28.2	23.2	44.5	29.3	23.2	45.1	30.4														40	
45	32.5	24.1	21.5	38.5	26	22.3	40.7	27.3	22.7	43.2	28.4														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																				15.1	15		15.2			130
135																				14.5	14.4					135
140																				14						140
145																				13.5						145

t_242_01010_00_000

Lifting capacities

Forces de levage

TNZK



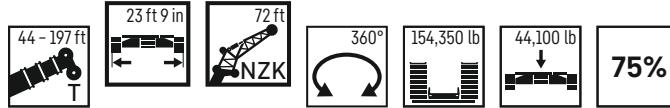
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft					
	40 ft																									
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°		
30	42.6			45.3																					30	
32	42.4			45.1																					32	
34	42.2			44.9																					34	
36	41.9			44.6																					36	
38	41.7			44.3																					38	
40	41.2			44																					40	
45	38.8			43																						45
50	36	28.3		41.8	30.5																					50
55	33.6	27	22.2	40.6	29																					55
60	31.4	25.7	21.7	39.4	27.6	22.3																				60
65	29.3	24.7	21.1	37.8	26.4	21.8																				65
70	27.4	23.7	20.7	36	25.3	21.3																				70
75	25.7	22.9	20.3	34.1	24.4	20.9																				75
80	24.2	22.1	19.9	32.2	23.5	20.5																				80
85	22.7	21.3	19.7	30.4	22.8	20.2																				85
90	21.4	20.5	19.4	28.8	22	19.9																				90
95	20.2	19.7	19.1	27.2	21.4	19.6																				95
100	19.1	18.8	18.8	25.8	20.8	19.4																				100
105	18.1	17.8	17.9	24.5	20.2	19.2																				105
110	17.1	16.9	17.1	22.6	19.7	19.1																				110
115	16.2	16.1	16.3	20.8	19.3	19																				115
120	15.4	15.3	15.5	19.1	18.8	18.9																				120
125	14.6	14.6	14.8	17.5	18.4	18.9																				125
130	13.9	13.9	14.1	16.1	17.2	18																				130
135	13.2	13.3	13.5	14.8	15.8	16.5	15																			135
140	12.5	12.6	12.9	13.8	14.5	15.1																				140
145	12	12.1		13.2	13.3	13.8																				145
150	11.4	11.5		12.7	12.7	12.9																				150
155	11			12.2	12.2	12.4																				155
160	9.9			11.7	11.8																					160
165				11.3	11.4																					165
170				10.8	11																					170
175				5.4																						175
180																										180
185																										185
190																										190
195																										195
200																										200
205																										205
210																										210
215																										215
220																										220

t_242_01010_00_000

Lifting capacities

Forces de levage

TNZK

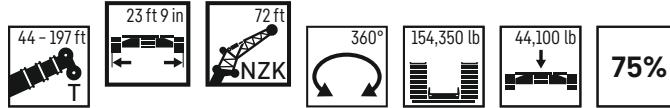


	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft											
	72 ft																															
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°					
12	21.8																											12				
13	22																											13				
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	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	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	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	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	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	9.4	9.4	165										
170																8.8	9.2		9.2	9.4	9.4	170										
175																8.6	9.1		8.6	9.1	9.1	175										

Lifting capacities

Forces de levage

TNZK



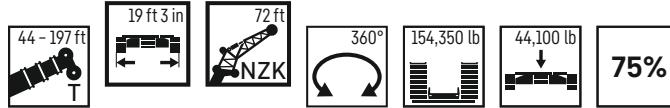
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft						
					72 ft																						
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
32	17.5			18.2																					32		
34	17.5			18.2																					34		
36	17.4			18.1																					36		
38	17.3			18																					38		
40	17.2			17.9			17.2																		40		
45	16.9			17.6			16.9																		45		
50	16.6			17.3			16.7																		50		
55	16.3			17			16.4																		55		
60	16			16.7			16.2																		60		
65	15.7	13.2		16.4	13.7		15.9																		65		
70	15.3	12.8		16	13.3		15.6																		70		
75	15	12.5		15.7	13		15.3	12.8																	75		
80	14.6	12.2		15.4	12.6		15	12.5																	80		
85	14.3	11.9	10	15	12.3	10.2	14.7	12.2	10.1																85		
90	13.9	11.6	9.9	14.7	12	10	14.4	12	10																90		
95	13.6	11.3	9.8	14.3	11.8	9.9	14.1	11.7	9.8																95		
100	13.2	11.1	9.6	13.9	11.5	9.8	13.8	11.4	9.7																100		
105	12.8	10.8	9.6	13.6	11.3	9.7	13.4	11.2	9.6																105		
110	12.4	10.6	9.5	13.2	11	9.6	13.1	11	9.5																110		
115	12.1	10.4	9.4	12.8	10.8	9.5	12.8	10.8	9.5																115		
120	11.8	10.2	9.4	12.5	10.6	9.4	12.5	10.6	9.4																120		
125	11.5	10.1	9.4	12.2	10.4	9.4	12.2	10.4	9.3																125		
130	11.2	9.9	9.4	11.9	10.2	9.4	11.9	10.2	9.3																130		
135	10.9	9.8	9.4	11.6	10.1	9.3	11.7	10.1	9.3																135		
140	10.6	9.7	9.4	11.3	9.9	9.3	11.4	9.9	9.2																140		
145	10.3	9.6	9.4	11	9.8	9.3	11.1	9.8	9.2																145		
150	9.9	9.5	9.4	10.8	9.6	9.3	10.9	9.7	9.2																150		
155	9.5	9.4	9.4	10.5	9.5	9.3	10.7	9.6	9.2																155		
160	9.2	9.2	9.4	10.3	9.5	9.3	10.4	9.5	9.2																160		
165	8.9	9	9.2	10	9.4	9.3	10.2	9.4	9.2																165		
170	8.5	8.7	8.9	9.8	9.4	9.3	10	9.3	9.2																170		
175	8.2	8.4	8.6	9.6	9.3	9.3	9.8	9.3	9.2																175		
180	8	8.1	8.5	9.4	9.3	9.3	9.7	9.2	9.2																180		
185	7.7	7.9		9.2	9.3	9.3	9.3	9.2	9.2																185		
190	7.5			9	9.3	8.6	9	9.2	9.2																190		
195				8.8	9.3		8.7	8.9	9.2																195		
200				7.8			8.4	8.6	7.6																200		
205				6.3			8.1	8.4	7.3																205		
210							7.5	8																		210	
215							6.5																			215	
220							3.3																			220	
225																											225
230																											230
235																											235
240																											240
245																											245
250																											250

t_242_03000_00_000

Lifting capacities

Forces de levage

TNZK



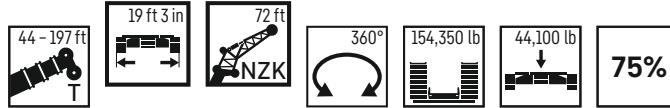
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft											
	72 ft																114 ft															
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°					
12	21.8																											12				
13	22																											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	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	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	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	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	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	9.4	165												
170														8.8	9.2		9.5	9.4	9.4	170												
175														8.6	9.1		9.2	9.4	9.4	175												

t_242_03010_00_000

Lifting capacities

Forces de levage

TNZK



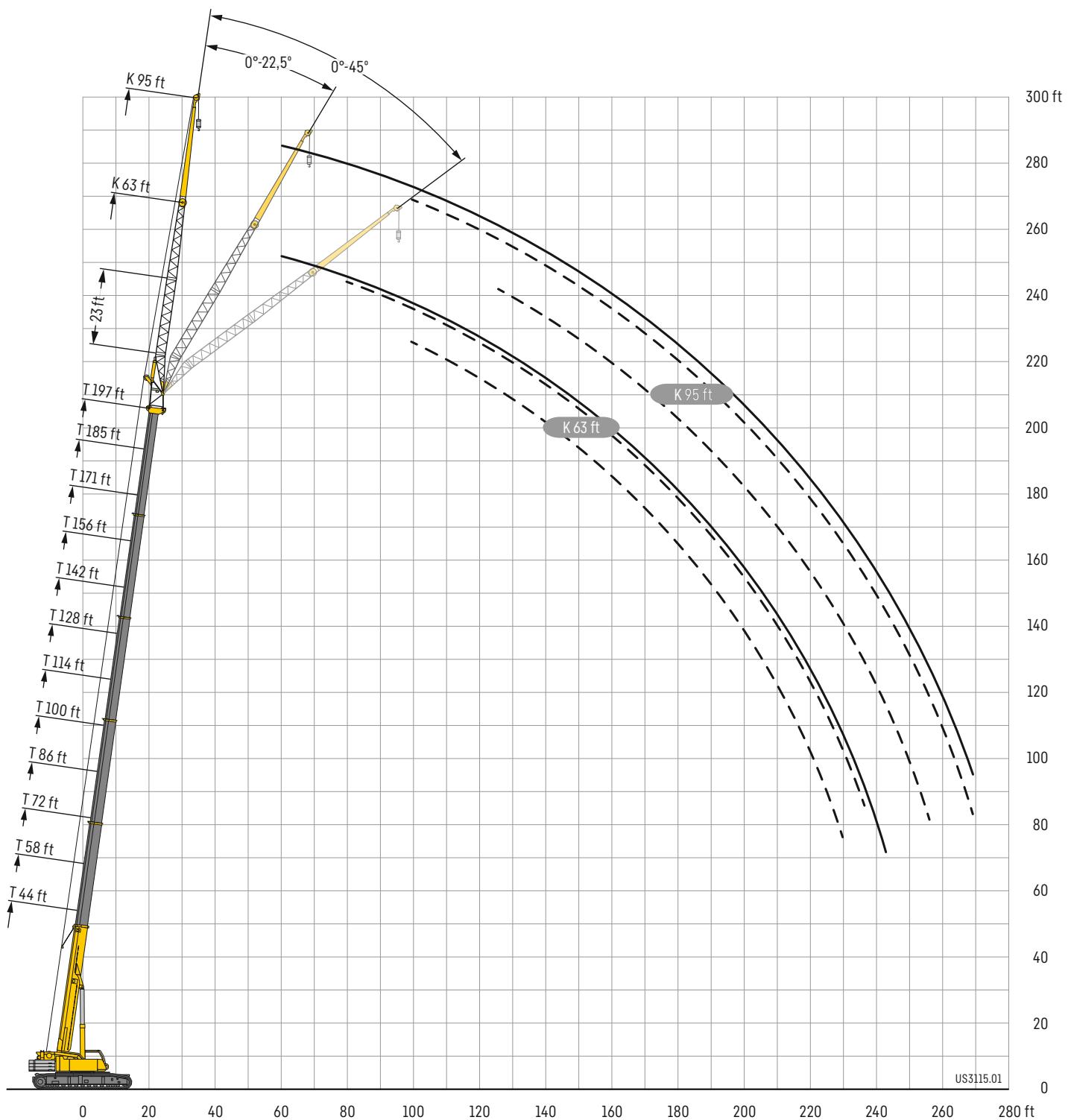
	128 ft			142 ft			156 ft			171 ft			185 ft			197 ft			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
32	17.5			18.2															32
34	17.5			18.2															34
36	17.4			18.1															36
38	17.3			18															38
40	17.2			17.9			17.2												40
45	16.9			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	1.8	235

t_242_03010_00_000

Lifting heights

Hauteurs de levage

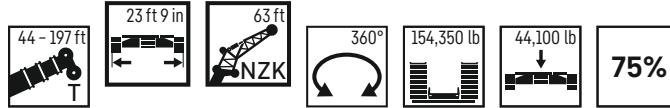
TNZK



Lifting capacities

Forces de levage

TNZK



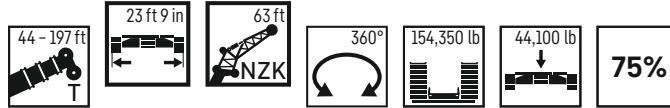
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft					
	63 ft																									
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°		
14	43.7																								14	
15	43.4																								15	
16	43																								16	
17	42.7																								17	
18	42.2																								18	
19	41.8																								19	
20	41.3																								20	
22	40.3																								22	
24	39.2																								24	
26	38.1																								26	
28	37																								28	
30	35.9																								30	
32	34.8																								32	
34	33.6																								34	
36	32.4	23.8																							36	
38	31.1	23																							38	
40	29.7	22.2																							40	
45	26.3	20.6																							45	
50	23	19.1																							50	
55	20.6	17.8	15.7																						55	
60	18.5	16.7	15																						60	
65	16.7	15.7	14.4																						65	
70	15.2	14.9	13.8																						70	
75	14	14.1	13.4																						75	
80	12.8	13.4	13.1	14.9																					80	
85	11.8	12.9	12.9	13.8																					85	
90	10.9	12.4	12.9	12.8																					90	
95	10.1	12		11.9																					95	
100				11.2																					100	
105				10.5																					105	
110				9.9																					110	
115																										115
120																										120
125																										125
130																										130
135																										135
140																										140
145																										145
150																										150
155																										155
160																										160
165																										165
170																										170

t_242_02000_00_000

Lifting capacities

Forces de levage

TNZK



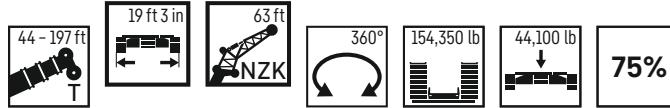
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft				
					63 ft																				
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
34	26.5			28.1																					34
36	26.3			27.9																					36
38	26.1			27.7																					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							55
60	23.5	17.8		25.1	18.7				23.6									21.2							60
65	22.7	17.2		24.4	18.1				23.1									20.9							65
70	21.8	16.6		23.6	17.4				22.6	17.2								20.5							70
75	21	16.1	14	22.8	16.9				22	16.7								20.1	16						75
80	20.2	15.6	13.7	21.9	16.3	14			21.3	16.2	13.9							19.8	15.6						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					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					90
95	17.6	14.3	13	19.4	15	13.3			19.3	14.9	13.2							18.3	14.5	13					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					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				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				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				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				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	12.2					14.4	12.4	12	12.5				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				13.9	12.2	11.9	11.9	11.7			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	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	10.3	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																	3.6	4		235					
240																	3.1	3.5		240					
245																	2.1			245					

t_242_02000_00_000

Lifting capacities

Forces de levage

TNZK



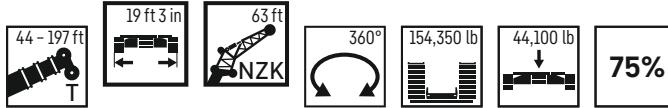
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft				
	63 ft																								
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
14	43.7																								14
15	43.4																								15
16	43																								16
17	42.7																								17
18	42.2																								18
19	41.8																								19
20	41.3																								20
22	40.3																								22
24	39.2																								24
26	38.1																								26
28	37																								28
30	35.9																								30
32	34.8																								32
34	33.6																								34
36	32.4	23.8																							36
38	31.1	23																							38
40	29.7	22.2																							40
45	26.3	20.6																							45
50	23	19.1																							50
55	20.6	17.8	15.7																						55
60	18.5	16.7	15																						60
65	16.7	15.7	14.4																						65
70	15.2	14.9	13.8																						70
75	14	14.1	13.4																						75
80	12.8	13.4	13.1																						80
85	11.8	12.9	12.9																						85
90	10.9	12.4	12.9																						90
95	10.1	12																							95
100																									100
105																									105
110																									110
115																									115
120																									120
125																									125
130																									130
135																									135
140																									140
145																									145
150																									150
155																									155
160																									160
165																									165
170																									170

t_242_02010_00_000

Lifting capacities

Forces de levage

TNZK



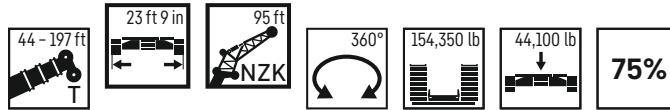
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft						
	63 ft				63 ft				63 ft				63 ft				63 ft				63 ft						
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
34	26.5			28.1																					34		
36	26.3			27.9																					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			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	12.2				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	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	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						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	10.9	140							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	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	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								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	1.7					1.4	1.6		230		

t_242_02010_00_000

Lifting capacities

Forces de levage

TNZK



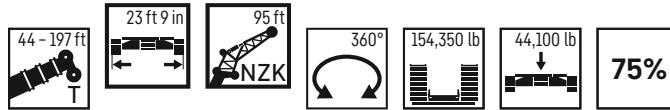
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft			
	95 ft																							
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
19	17.3			16.6																	19			
20	17.3			16.6																	20			
22	17.2			16.6			15.7														22			
24	17.2			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	7.3	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				

t_242_05000_00_000

Lifting capacities

Forces de levage

TNZK



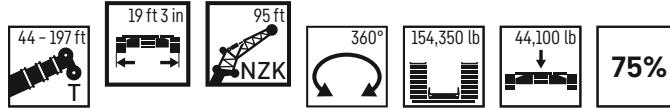
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft						
	95 ft				95 ft				95 ft				95 ft				95 ft				95 ft						
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
36	12.9																								36		
38	12.9			13.5																					38		
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								60	
65	11.9			12.6				12.1					11.2					10								65	
70	11.6			12.3				11.9					11					9.9								70	
75	11.3			12				11.6					10.8					9.8								75	
80	11	8.7		11.7	9			11.3					10.6					9.7								80	
85	10.6	8.5		11.3	8.8			11	8.7				10.4					9.5								85	
90	10.3	8.3		11	8.6			10.8	8.5				10.2					9.3								90	
95	9.9	8		10.6	8.3			10.5	8.3				9.9	8				9.2	7.7							95	
100	9.6	7.8		10.3	8.1			10.1	8.1				9.6	7.8				9	7.5							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							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							110	
115	8.7	7.2	6.2	9.3	7.5	6.3		9.3	7.5	6.2			8.9	7.3				8.5	7.1							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						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						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						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						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						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						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						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						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						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						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						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						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						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						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						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						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						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						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						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						215	
220				5.4	5.7			5.7	5.6	5.6			5.7	5.6	5.6			5.7	5.5	5.5						220	
225				5.3				5.5	5.6	5.6			5.6	5.5	5.6			5.5	5.5	5.5						225	
230								5.4	5.6				5.5	5.5	5.6			5	5.5	5.5						230	
235								5.1	5.6				5.4	5.5	5.6			4.6	5.4	5.5						235	
240									3.9					5.2	5.4	5.6			4.2	5	5.2						240
245														4.9	5.3				3.8	4.6	4.6						245
250														3.9					3.4	4.1	3.9						250
255														1.4					3	3.6							255
260																			2.6	3.1							260
265																			2.3	3							265
270																			1.6	2.1							270

t_242_05000.00_000

Lifting capacities

Forces de levage

TNZK



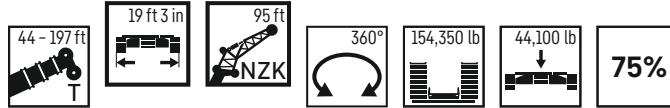
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft				
					95 ft																				
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
19	17.3			16.6																					19
20	17.3			16.6																					20
22	17.2			16.6			15.7																		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	7.3	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

t_242_05010_00_000

Lifting capacities

Forces de levage

TNZK



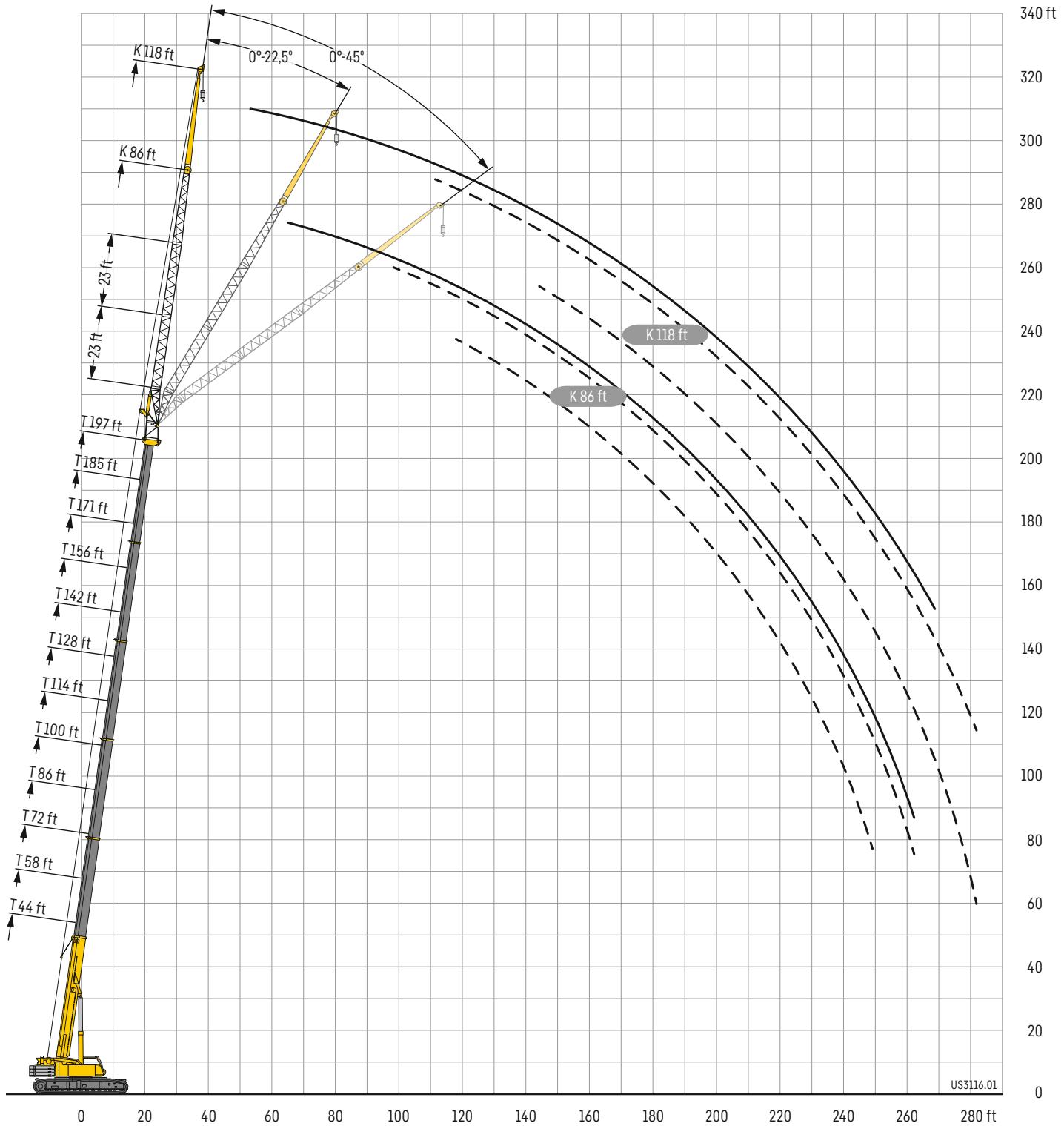
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft						
	95 ft																										
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
36	12.9																								36		
38	12.9			13.5																					38		
40	12.8			13.4																					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							60	
65	11.9			12.6				12.1					11.2						10							65	
70	11.6			12.3				11.9					11						9.9							70	
75	11.3			12				11.6					10.8						9.8							75	
80	11	8.7		11.7	9			11.3					10.6						9.7							80	
85	10.6	8.5		11.3	8.8			11	8.7				10.4						9.5							85	
90	10.3	8.3		11	8.6			10.8	8.5				10.2						9.3							90	
95	9.9	8		10.6	8.3			10.5	8.3				9.9	8					9.2	7.7						95	
100	9.6	7.8		10.3	8.1			10.1	8.1				9.6	7.8					9	7.5						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						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						110	
115	8.7	7.2	6.2	9.3	7.5	6.3		9.3	7.5	6.2			8.9	7.3					8.5	7.1						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					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					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					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					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					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					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					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					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					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					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					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					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					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					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					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					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					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					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					210	
215	4.9			5.5	5.7	5.7		5.5	5.6	5.6			4.5	5.5	5.6				3.3	4.7	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					220	
225				5.3				4.6	5.3	5.2			3.6	4.6	4.9				2.4	3.6	4.2					225	
230								4.2	4.8				3.2	4.1	4.2				2	3.1	3.6					230	
235								3.8	4.2				2.8	3.6	3.6				1.6	2.6	3					235	
240									3.5					2.5	3.1	2.8				2.2	2.4						240
245														2.1	2.6					1.7	1.8						245
250															1.8											250	
255															1.4											255	

t_242_05010_00_000

Lifting heights

Hauteurs de levage

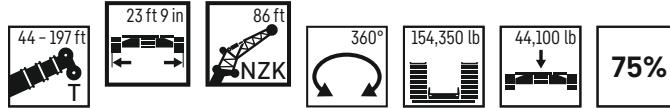
TNZK



Lifting capacities

Forces de levage

TNZK



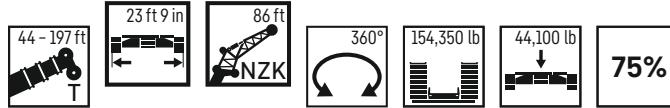
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
18	27.1																							18
19	27			25.4																				19
20	26.8			25.3																				20
22	26.4			25.1					23.1															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							32
34	22.9			22.8					21.7				21				19.7							34
36	22			22.2					21.3				20.7				19.5							36
38	21.2			21.5					20.9				20.4				19.3							38
40	20.5			20.9					20.4				20				19							40
45	18.6			19.3					19.1				19				18.3							45
50	17	13		17.8					17.9				17.9				17.4							50
55	15.6	12		16.4	12.2				16.7	12.1			16.9				16.6							55
60	14.2	11.2		15.2	11.4				15.6	11.4			15.9	11.5			15.8							60
65	12.9	10.5		14.1	10.7				14.5	10.8			15	10.9			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						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						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						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	10.0		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	10.5		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		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		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		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	6.1	6.5	6.5	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	

t_242_04000_00_000

Lifting capacities

Forces de levage

TNZK



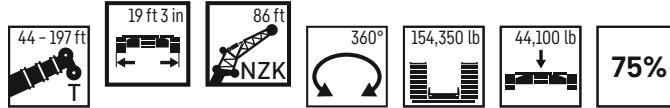
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft				
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	17.2			18.2																					38
40	17.1			18.1																					40
45	16.8			17.8				16.6																	45
50	16.3			17.4				16.3																	50
55	15.8			16.9				16																	55
60	15.2			16.3				15.7																	60
65	14.6			15.7				15.2																	65
70	14			15.1				14.6																	70
75	13.4	9.8		14.5	10.3			14.1																	75
80	12.9	9.5		13.9	9.9			13.6	9.8																80
85	12.3	9.2		13.3	9.6			13.1	9.5																85
90	11.8	8.9		12.8	9.3			12.6	9.2																90
95	11.3	8.7	7.6	12.3	9			12.1	8.9																95
100	10.9	8.4	7.5	11.8	8.7	7.6		11.7	8.7	7.6	11.2	8.5													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												105
110	10	8	7.2	10.9	8.3	7.4		10.9	8.3	7.3	10.5	8.1	7.2												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												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												120
125	9	7.4	7	9.6	7.7	7.1		9.8	7.7	7	9.5	7.6	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												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												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												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												145
150	7.5	6.8	6.8	8.2	7	6.8		8.4	7	6.7	8.3	6.9	6.7												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												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												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												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												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												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												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												185
190	6	6.4		6.4	6.3	6.7		6.7	6.3	6.6	6.8	6.2	6.6												190
195	5.9	6.4		6.3	6.3	6.7		6.5	6.3	6.6	6.7	6.2	6.6												195
200	5.8			6.1	6.3	6.7		6.4	6.2	6.6	6.5	6.2	6.6												200
205	5.8			6	6.3			6.2	6.2	6.6	6.4	6.1	6.6												205
210				5.9	6.3			6.1	6.2	6.6	6.2	6.1	6.6												210
215				5.8	6.3			5.9	6.2	6.6	6.1	6.1	6.6												215
220				3.7				5.8	6.2		6	6.1	6.5												220
225								5.7	5.5		5.8	6	6.3												225
230								4.8	5.3		5.6	5.8													230
235											5.3	5.6													235
240											4.5														240
245											2.4														245
250																									250
255																									255
260																									260

t_242_04000_00_000

Lifting capacities

Forces de levage

TNZK



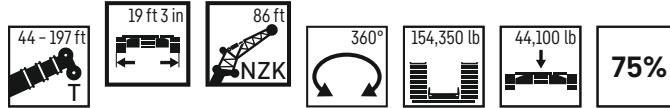
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
18	27.1																							18
19	27			25.4																				19
20	26.8			25.3																				20
22	26.4			25.1					23.1															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							32
34	22.9			22.8					21.7				21				19.7							34
36	22			22.2					21.3				20.7				19.5							36
38	21.2			21.5					20.9				20.4				19.3							38
40	20.5			20.9					20.4				20				19							40
45	18.6			19.3					19.1				19				18.3							45
50	17	13		17.8					17.9				17.9				17.4							50
55	15.6	12		16.4	12.2				16.7	12.1			16.9				16.6							55
60	14.2	11.2		15.2	11.4				15.6	11.4			15.9	11.5			15.8							60
65	12.9	10.5		14.1	10.7				14.5	10.8			15	10.9			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						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						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						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	10.0		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	10.5		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	6.1	6.5	6.5	6.8	160		
165															6.1	6.5		6.5	6.5	6.8	165			
170																	6	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		

t_242_04010_00_000

Lifting capacities

Forces de levage

TNZK



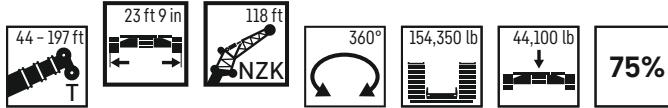
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft				
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	17.2			18.2																					38
40	17.1			18.1																					40
45	16.8			17.8				16.6																	45
50	16.3			17.4				16.3																	50
55	15.8			16.9				16																	55
60	15.2			16.3				15.7																	60
65	14.6			15.7				15.2																	65
70	14			15.1				14.6																	70
75	13.4	9.8		14.5	10.3			14.1																	75
80	12.9	9.5		13.9	9.9			13.6	9.8																80
85	12.3	9.2		13.3	9.6			13.1	9.5																85
90	11.8	8.9		12.8	9.3			12.6	9.2																90
95	11.3	8.7	7.6	12.3	9			12.1	8.9																95
100	10.9	8.4	7.5	11.8	8.7	7.6		11.7	8.7	7.6	11.2	8.5													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												105
110	10	8	7.2	10.9	8.3	7.4		10.9	8.3	7.3	10.5	8.1	7.2												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												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												120
125	9	7.4	7	9.6	7.7	7.1		9.8	7.7	7	9.5	7.6	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												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												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												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												145
150	7.5	6.8	6.8	8.2	7	6.8		8.4	7	6.7	8.3	6.9	6.7												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												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												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												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												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												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												180
185	6.2	6.4	6.8	6.6	6.4	6.7		6.8	6.3	6.6	6.6	6.9	6.3	6.6											185
190	6	6.4		6.4	6.3	6.7		6.5	6.3	6.6	6.6	6.6	6.2	6.6											190
195	5.9	6.4		6.1	6.3	6.7		6.4	6.2	6.6	6	6.2	6.6												195
200	5.8			6	6.3	6.7		6.2	6.2	6.6	5.5	6.1	6.6												200
205	5.8			5.9	6.3			5.9	6.2	6.6	4.9	6	6.6												205
210				5.8	6.3			5.5	6.2	6.5	4.4	5.5	6.1												210
215				5.8	6.3			5	5.7	5.8	4	4.9	5.4												215
220				3.7				4.6	5.1		3.5	4.4	4.7												220
225								4.2	4.6		3.1	3.9	4												225
230								3.8	4.1		2.7	3.4													230
235											2.4	2.9													235
240											2														240
245											1.7														245

t_242_04010_00_000

Lifting capacities

Forces de levage

TNZK



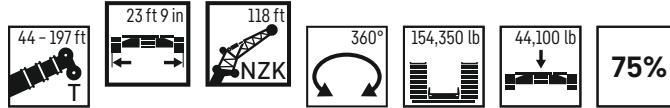
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft					
					118 ft																					
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	
22	12.2																									22
24	12.6																									24
26	12.8			12																						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										38	
40	11.9			11.6			11				10.6				10										40	
45	11.4			11.2			10.7				10.4				9.9										45	
50	10.9			10.8			10.4				10.2				9.7										50	
55	10.3			10.3			10				9.8				9.5										55	
60	9.7			9.8			9.6				9.5				9.2										60	
65	9.1	7.6		9.3			9.2				9.2				9										65	
70	8.6	7.2		8.8			8.8				8.9				8.7										70	
75	8.1	6.8		8.4	6.9		8.4				8.5				8.4										75	
80	7.6	6.5		7.9	6.5		8	6.5			8.2	6.5			8.1										80	
85	7.2	6.1		7.5	6.2		7.7	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									90	
95	6.4	5.6		6.8	5.7		7	5.7			7.2	5.8			7.2	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									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									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									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	

t_242_06000_00_000

Lifting capacities

Forces de levage

TNZK



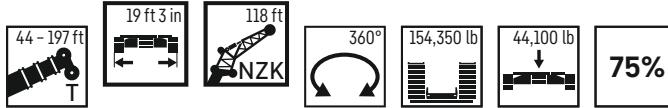
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft					
	118 ft																									
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°		
45	9.1			9.5																					45	
50	9			9.4																					50	
55	8.9			9.3			8.9			8.2															55	
60	8.8			9.2			8.8			8.1															60	
65	8.6			9			8.7			8.1															65	
70	8.4			8.8			8.5			8															70	
75	8.1			8.6			8.3			7.8															75	
80	7.9			8.3			8.1			7.6															80	
85	7.7			8.1			7.9			7.5															85	
90	7.5			7.9			7.7			7.3															90	
95	7.2	5.7		7.7	5.9		7.5			7.1															95	
100	7	5.6		7.4	5.8		7.3	5.7		7															100	
105	6.8	5.4		7.2	5.6		7.1	5.5		6.8	5.4														105	
110	6.6	5.2		7	5.4		6.9	5.4		6.6	5.2														110	
115	6.3	5.1		6.7	5.3		6.7	5.2		6.4	5.1														115	
120	6.2	4.9		6.5	5.1		6.5	5.1		6.3	5														120	
125	6	4.8	3.9	6.3	5	4	6.3	4.9	4	6.1	4.9														125	
130	5.8	4.7	3.9	6.1	4.9	3.9	6.1	4.8	3.9	5.9	4.7														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											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	3.3	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							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							240	
245					3.3			3.5	3.4		3.5	3.3	3.3	3.5	3.2	3.3	3.3	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							250	
255								3.3	3.4		3.4	3.3	3.3	3.1	3.2	3.3	2.7	3.2							255	
260								3.2			3.3	3.3	3.3	2.7	3.2	3.3	2.3	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

t_242_06000_00_000

Lifting capacities

Forces de levage

TNZK



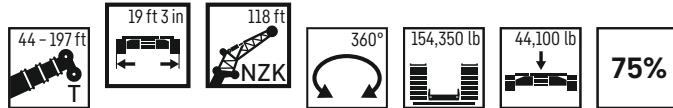
	44 ft				58 ft				72 ft				86 ft				100 ft				114 ft			
	118 ft																							
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
22	12.2																				22			
24	12.6																				24			
26	12.8			12																	26			
28	12.7			12.2				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					38			
40	11.9			11.6				11				10.6				10					40			
45	11.4			11.2				10.7				10.4				9.9					45			
50	10.9			10.8				10.4				10.2				9.7					50			
55	10.3			10.3				10				9.8				9.5					55			
60	9.7			9.8				9.6				9.5				9.2					60			
65	9.1	7.6		9.3				9.2				9.2				9					65			
70	8.6	7.2		8.8				8.8				8.9				8.7					70			
75	8.1	6.8		8.4	6.9			8.4				8.5				8.4					75			
80	7.6	6.5		7.9	6.5			8	6.5			8.2	6.5			8.1					80			
85	7.2	6.1		7.5	6.2			7.7	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				90			
95	6.4	5.6		6.8	5.7			7	5.7			7.2	5.8			7.2	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				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				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				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		4.2	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	4.3	3.7	3.5	175		
180						3.4			3.7	3.6	3.6	3.9	3.6	3.6		4.3	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	3.6	3.5	185			
190									3.4	3.6		3.7	3.6	3.6		3.9	3.6	3.6	3.9	3.6	3.5	190		
195									3.3			3.6	3.6			3.8	3.5	3.5	3.8	3.5	195			
200												3.4	3.6			3.7	3.5	3.5	3.6	3.5	200			
205												3.4				3.6	3.5		3.6	3.5	205			
210												3.3				3.5	3.5		3.5	3.5	210			
215																3.4	3.5		3.4	3.5	215			
220																3.3	3.5		3.3	3.5	220			

t_242_06010_00_000

Lifting capacities

Forces de levage

TNZK



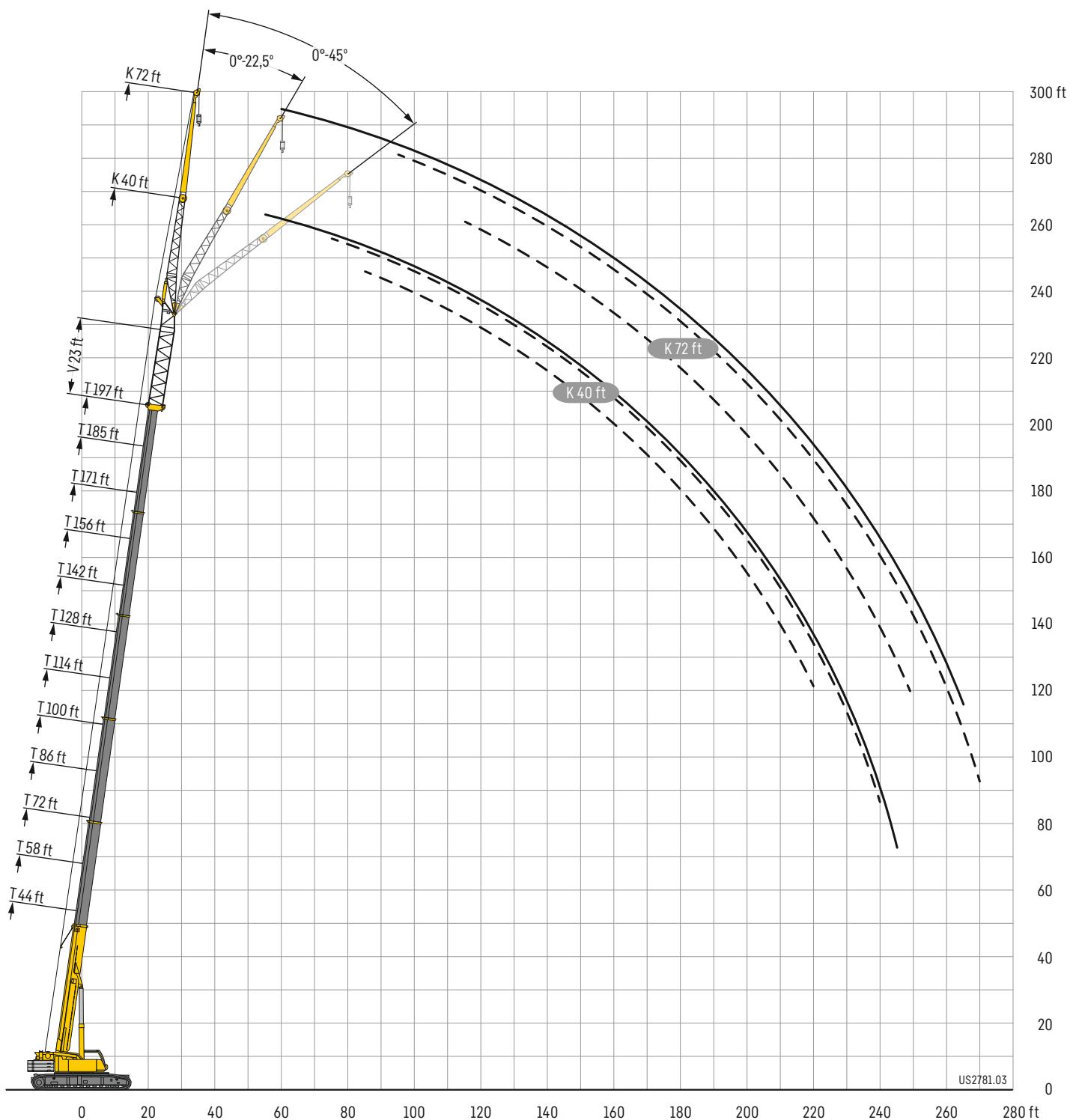
	128 ft				142 ft				156 ft				171 ft				185 ft				197 ft			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
45	9.1			9.5																			45	
50	9			9.4																			50	
55	8.9			9.3				8.9			8.2												55	
60	8.8			9.2				8.8			8.1												60	
65	8.6			9				8.7			8.1												65	
70	8.4			8.8				8.5			8												70	
75	8.1			8.6				8.3			7.8												75	
80	7.9			8.3				8.1			7.6												80	
85	7.7			8.1				7.9			7.5												85	
90	7.5			7.9				7.7			7.3												90	
95	7.2	5.7		7.7	5.9			7.5			7.1												95	
100	7	5.6		7.4	5.8			7.3	5.7		7												100	
105	6.8	5.4		7.2	5.6			7.1	5.5		6.8	5.4											105	
110	6.6	5.2		7	5.4			6.9	5.4		6.6	5.2											110	
115	6.3	5.1		6.7	5.3			6.7	5.2		6.4	5.1											115	
120	6.2	4.9		6.5	5.1			6.5	5.1		6.3	5											120	
125	6	4.8	3.9	6.3	5	4		6.3	4.9	4	6.1	4.9											125	
130	5.8	4.7	3.9	6.1	4.9	3.9		6.1	4.8	3.9	5.9	4.7											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											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									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								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						255	
260								2.2			1.9	1.7		1.5									260	
265																							265	

t_242_06010_00_000

Lifting heights

Hauteurs de levage

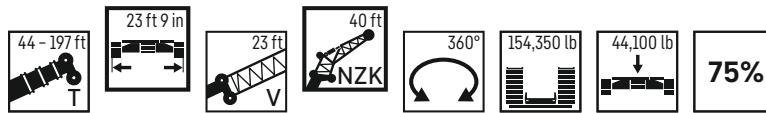
TVNZK



Lifting capacities

Forces de levage

TVNZK



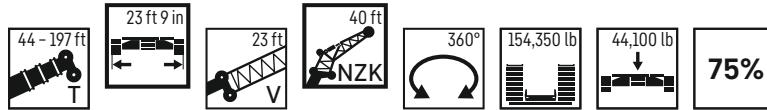
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft								
	40 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°				
11	46.1																								11				
12	46.1																								12				
13	46.1																								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							30				
32	41.8	33.6			42.5	34.7				40.7				39.5				35.8							32				
34	40.1	32.4			41	33.5				39.5				38.6				35.5							34				
36	38.4	31.3	23.2	39.6	32.5				38.4	32.4			37.7				35.2								36				
38	36.8	30.3	23.2	38.2	31.5				37.2	31.6			36.8				34.6								38				
40	35.3	29.4	23.2	36.8	30.5	23.2	36.1	30.7		35.8	30.4			33.9				32.9							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	20.9	20.9	20.9	20.9	20.9	20.9	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	20.9	20.9	20.9	20.9	20.9	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	20.2	20.2	20.2	20.2	20.2	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	19.6	19.6	19.6	19.6	19.6	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	18.9	18.9	18.9	18.9	18.9	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	18.2	18.2	18.2	18.2	18.2	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	17.3	17.3	17.3	17.3	17.3	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	16.5	16.5	16.5	16.5	16.5	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	10.5	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									

t_242_01400_00_000

Lifting capacities

Forces de levage

TVNZK



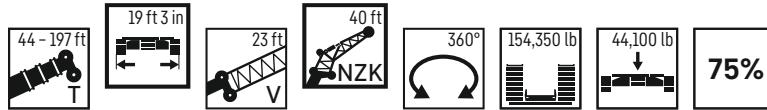
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft					
	40 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
36	30																									36
38	29.9																									38
40	29.8				27.8																					40
45	29.3				27.5					25.1																45
50	28.3				27.2					25																50
55	27.2	24.1			26.4					24.8																55
60	25.9	23.3			25.4	22.8			24.2	21.2			22.5													60
65	24.5	22.4	20.3		24.4	22.1	20		23.5	20.7			22.2	19.8												65
70	23.2	21.6	19.8	23.3	21.4	19.4		22.6	20.1			21.8	19.3													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									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	11.6	11.6		11.8	11.9	12.2		12	12.1	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

t_242_01400_00_000

Lifting capacities

Forces de levage

TVNZK



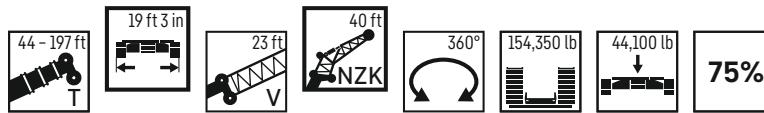
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft					
	40 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
11	46.1																								11	
12	46.1																								12	
13	46.1																								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							30	
32	41.8	33.6		42.5	34.7			40.7				39.5						35.8							32	
34	40.1	32.4		41	33.5			39.5				38.6						35.5							34	
36	38.4	31.3	23.2	39.6	32.5			38.4	32.4			37.7						35.2							36	
38	36.8	30.3	23.2	38.2	31.5			37.2	31.6			36.8						34.6							38	
40	35.3	29.4	23.2	36.8	30.5	23.2	36.1	30.7			35.8	30.4						33.9							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							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							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	20.9	20.9	20.9	20.9	20.9	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	20.9	20.9	20.9	20.9	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	20.2	20.2	20.2	20.2	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	19.6	19.6	19.6	19.6	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	18.9	18.9	18.9	18.9	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	18.2	18.2	18.2	18.2	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	17.3	17.3	17.3	17.3	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	16.5	16.5	16.5	16.5	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	10.5				150
155																	9.1								155	
160																									160	
165																									165	
170																									170	

t_242_01410_00_000

Lifting capacities

Forces de levage

TVNZK



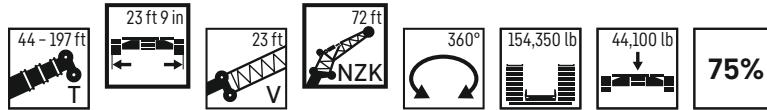
		128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft													
		40 ft																																	
		0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°				
36	30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

t_242_01410_00_000

Lifting capacities

Forces de levage

TVNZK



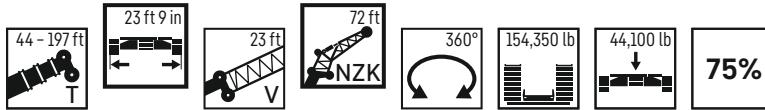
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft							
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°				
15	20.3																								15			
16	20.3																								16			
17	20.3																								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									32			
34	19.4			19				18				17.3				16.2									34			
36	19.2			18.8				17.9				17.2				16.1									36			
38	19			18.6				17.8				17.2				16.1									38			
40	18.8			18.4				17.7				17.1				16									40			
45	18.1	15.8		17.9				17.3				16.9				15.9									45			
50	17.5	15.2		17.4				16.9				16.5				15.8									50			
55	16.9	14.5		16.9	14.5			16.4	14.3			16.2				15.6									55			
60	16.3	13.9		16.3	14			16	13.8			15.8	13.8			15.3									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						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						130			
135				8.3	8.2			8.7	8.5	8.5	9.3	8.8	8.8	9	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	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	7.7	7.7	7.9	8.2	8.2	8.3						150		
155						7.5	7.6			8.1	8			7.7	7.7	7.9	7.4	7.4	7.6	7.9	7.9	8					155	
160										7.9	7.8			7.4	7.4	7.6	7.9	7.9	7.9	7.9	7.9	8					160	
165										7.7	7.6			7.1	7.1	7.1	6.6	6.7	6.7	7.1	7.2	7.4						165
170										7.5	7.6			6.9	6.9	6.9	6.4	6.5	6.5	6.9	7	7						170
175																										175		
180																										180		
185																										185		
190																										190		
195																										195		
200																										200		

t_242_03400_00_000

Lifting capacities

Forces de levage

TVNZK



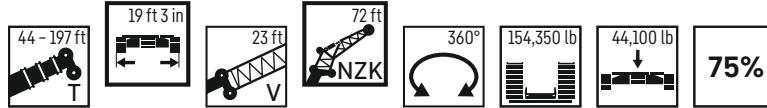
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft					
	72 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	14.4																								38	
40	14.4																								40	
45	14.3				13.6				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				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				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				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				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				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				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				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				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				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				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				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				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				175	
180	6.8	6.9	7.1	7.2	7.3	7.5		7.3	7.5	7.7		7.6	7.7	7.7		7.7	7.6	7.7		6.6	6.8				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				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				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				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				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				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				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				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				220
225					5.4				5.1	5.3			5.5	5.7	5.8		5.2	5.9	6.1		4.6	4.9				225
230									4.9	5.1			5.4	5.5	5.6		4.8	5.5	5.7		4.4	4.7				230
235									4.7				5.2	5.3			4.3	5	5.2		4	4.5				235
240									3.6				5	5.1			3.9	4.6	4.7		3.5	4.3				240
245													4.7	4.9			3.5	4.1			3.1	3.9				245
250													3.6				3.1	3.6			2.7	3.4				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	
270																				1.7					270	

t_242_03400_00_000

Lifting capacities

Forces de levage

TVNZK



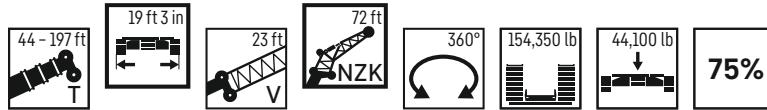
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft				
	72 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
15	20.3																								15
16	20.3																								16
17	20.3																								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	9.7				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		7.7	7.7	7.9		8.2	8.2	8.3				150
155						7.5	7.6		8.1	8				7.7	7.7	7.9		7.7	7.6	7.8				155	
160									7.9	7.8		7.4	7.4	7.6		7.4	7.4	7.6		7.9	7.9	8			160
165										7.7	7.6		7.1	7.1		7.1	7.1		7.7	7.6	7.8				165
170										7.5	7.6		6.9	6.9		7.4	7.4		7.4	7.4	7.6				170
175											6.6	6.7				7.1	7.2		7.1	7.2	7.4				175
180											6.4	6.5				6.9	7		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

t_242_03410_00_000

Lifting capacities

Forces de levage

TVNZK



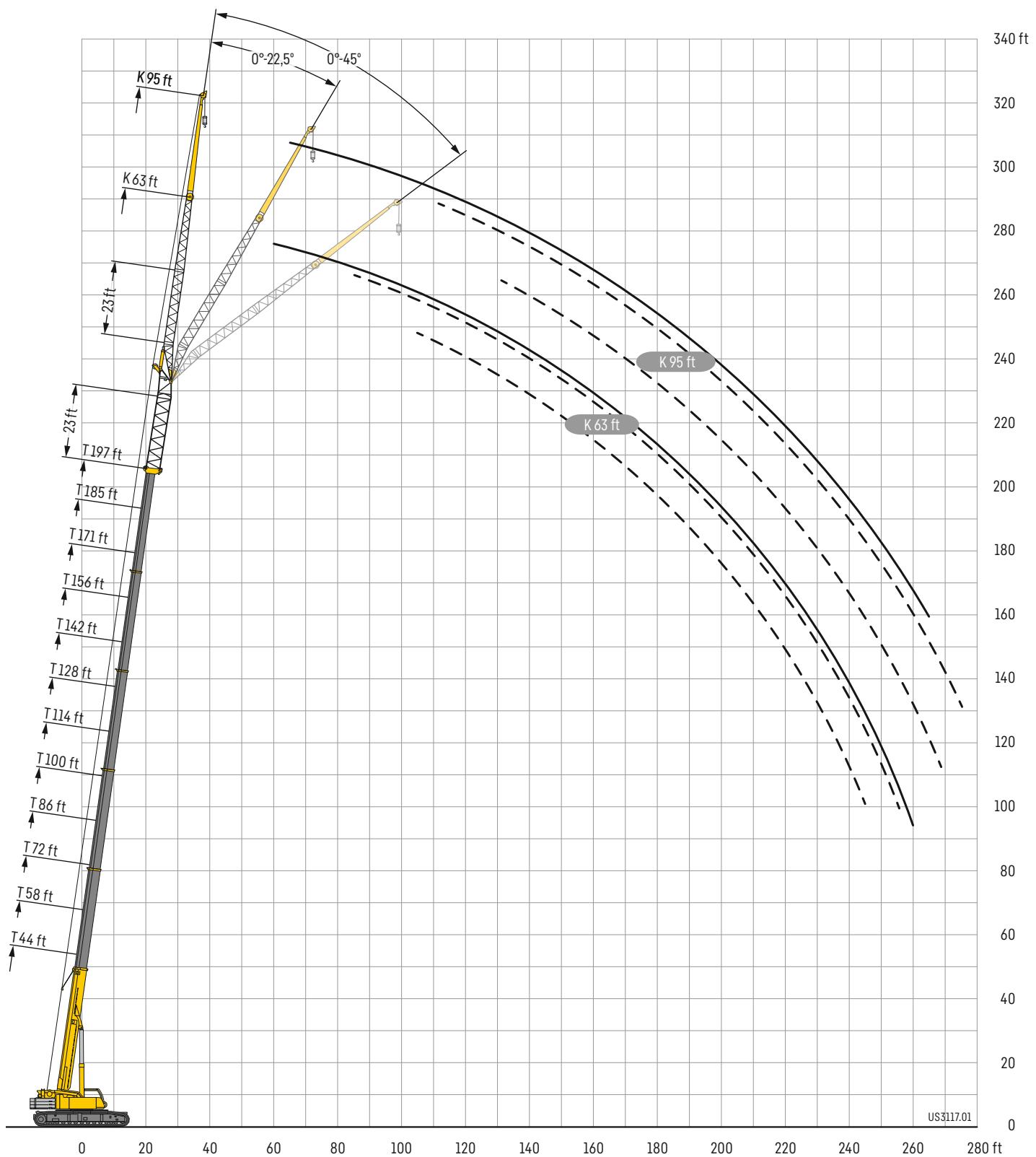
Jib length (ft)	128 ft + 23 ft								142 ft + 23 ft								156 ft + 23 ft								171 ft + 23 ft								185 ft + 23 ft								197 ft + 23 ft												
	0°			22.5°			45°			0°			22.5°			45°			0°			22.5°			45°			0°			22.5°			45°			0°			22.5°			45°			0°			22.5°			45°	
38	14.4																																											38									
40	14.4																																											40									
45	14.3																																											45									
50	14.2																																											50									
55	14.1																																											55									
60	14.1																																											60									
65	13.9																																											65									
70	13.7																																											70									
75	13.5	12.1																																										75									
80	13.2	11.8																																										80									
85	12.9	11.6																																										85									
90	12.7	11.4																																										90									
95	12.4	11.1	9.6																																									95									
100	12.1	10.9	9.6																																									100									
105	11.8	10.7	9.5																																									105									
110	11.5	10.4	9.4																																									110									
115	11.1	10.1	9.4																																									115									
120	10.8	9.8	9.3																																									120									
125	10.4	9.6	9.2																																									125									
130	10.1	9.3	9																																									130									
135	9.7	9.1	8.9																																									135									
140	9.3	8.9	8.7																																									140									
145	9	8.7	8.6																																									145									
150	8.6	8.5	8.5																																									150									
155	8.3	8.3	8.3																																									155									
160	7.9	8	8.2																																									160									
165	7.6	7.8	8																																									165									
170	7.3	7.5	7.7																																									170									
175	7	7.2	7.4																																									175									
180	6.8	6.9	7.1																																									180									
185	6.5	6.7																																										185									
190	6.3	6.4																																										190									
195	6.1	6.2																																										195									
200	5.8	5.9																																										200									
205	5.6	5.7																																										205									
210	5.5	5.6																																										210									
215	4.6																																											215									
220																																												220									
225																																												225									
230																																												230									
235																																												235									
240																																												240									
245																																												245									
250																																												250									

LTR 1220 65

Lifting heights

Hauteurs de levage

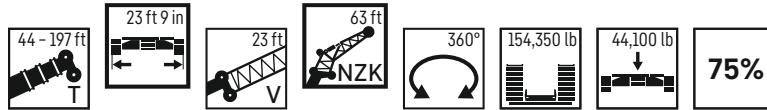
TVNZK



Lifting capacities

Forces de levage

TVNZK



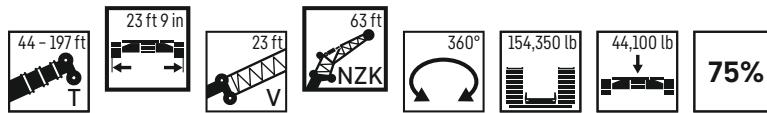
		44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft							
		63 ft																											
		0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
15	35																												15
16	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															32
34	30.6					30.1				27.9				26.2															34
36	29.6					29.3				27.5				26.2															36
38	28.6	23.4			28.5				27.1				25.9																38
40	27.6	22.8			27.7				26.5				25.5																40
45	25.4	21.4			25.8	22.2			25				24.4															45	
50	23.4	20.1			24	20.8			23.5				23.2															50	
55	21.6	18.9			22.4	19.6			22.1	19.1			22.1	18.9			21.2											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										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		8.7	8.7		8.1	8.2	8.3	8.8	8.7	8.8										145	
150							8			8.7			7.8	7.9	8	8.5	8.4	8.5									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	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											175	
180																												180	
185																												185	
190																												190	

t_242_02400_00_000

Lifting capacities

Forces de levage

TVNZK



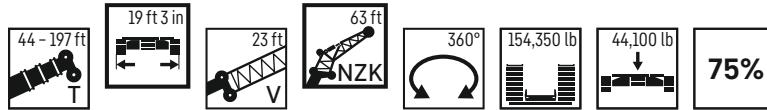
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft					
	63 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
38	19.1																								38	
40	19.1																								40	
45	18.9				17.8				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								60	
65	17.9	15.8			17.2				15.9				14.7				13.3								65	
70	17.4	15.3			16.9				15.8				14.6				13.2								70	
75	16.9	14.8			16.4	14.6			15.5	14			14.5				13.2								75	
80	16.3	14.4			16	14.1			15.2	13.7			14.3	13.2			13.1								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		

t_242_02400_00_000

Lifting capacities

Forces de levage

TVNZK



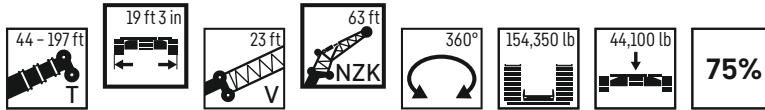
63 ft																												
44 ft + 23 ft					58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft							
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
15	35																											15
16	35																											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															32
34	30.6				30.1				27.9				26.2															34
36	29.6				29.3				27.5				26.2															36
38	28.6	23.4			28.5				27.1				25.9															38
40	27.6	22.8			27.7				26.5				25.5															40
45	25.4	21.4			25.8	22.2			25				24.4															45
50	23.4	20.1			24	20.8			23.5				23.2															50
55	21.6	18.9	15.4		22.4	19.6			22.1	19.1			22.1	18.9			21.2										55	
60	19.9	17.7			20.8	18.4	15.4		20.8	18.1			20.9	18			20.3	17.4									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		8.7	8.7		8.1	8.2	8.3	8.8	8.7	8.8									145	
150							8			8.7			7.8	7.9	8	8.5	8.4	8.5									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	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										175	
180																												180
185																												185
190																												190

t_242_02410_00_000

Lifting capacities

Forces de levage

TVNZK



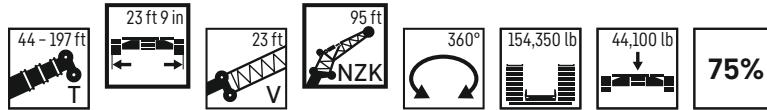
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft					
	63 ft				63 ft				63 ft				63 ft				63 ft				63 ft					
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	
38	19.1																									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				9.6	9.1	8.7			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	8.4			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	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	8.5	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	7.5			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			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		235	
240										1.8	2.1													240		
245										1.5															245	

t_242_02410_00_000

Lifting capacities

Forces de levage

TVNZK



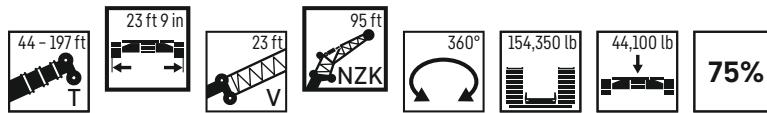
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft							
	95 ft																											
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
22	15.2																											22
24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

t_242_05400_00_000

Lifting capacities

Forces de levage

TVNZK



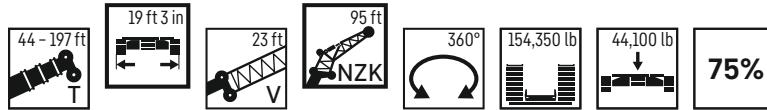
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft				
	95 ft				95 ft				95 ft				95 ft				95 ft				95 ft				
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	10.3			9.9																			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							65		
70	10			9.6				9.1				8.5				8							70		
75	9.9			9.5				9				8.5				7.9							75		
80	9.8			9.5				9				8.4				7.9							80		
85	9.6	8.2		9.4				8.9				8.4				7.9							85		
90	9.4	8		9.2				8.9	7.8			8.3				7.8							90		
95	9.2	7.8		9	7.8			8.8	7.6			8.3				7.8							95		
100	9	7.7		8.9	7.6			8.6	7.5			8.2	7.3			7.7							100		
105	8.8	7.5		8.7	7.5			8.5	7.3			8.1	7.2			7.6	7						105		
110	8.6	7.3		8.5	7.3			8.3	7.2			8	7.1			7.5	6.9						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						115		
120	8.2	7	6.1	8.1	7	6		7.9	6.9	6		7.7	6.8			7.4	6.7						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	5.5	5.6	5.3		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	5.5	5.6	5.2		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	5.4	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	5.4	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	5.3	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	5.3	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	5.2	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	5	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	5	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	5.8	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	5.2	5.7	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	5.6	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	5.4	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	5.3	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		5.6	5.3	5.3	5	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		5.3	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		

t_242_05400_00_000

Lifting capacities

Forces de levage

TVNZK



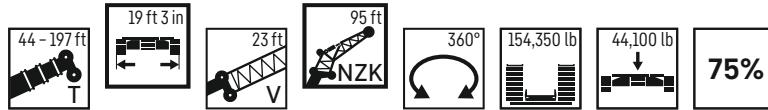
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft					
	95 ft																									
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°		
22	15.2																									22
24	15.2																									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																			32
34	15			14.3			13.3																			34
36	15			14.2			13.2																			36
38	14.9			14.2			13.2																			38
40	14.8			14.1			13.1																			40
45	14.5			14			13																			45
50	14			13.7			12.9																			50
55	13.5			13.3			12.7																			55
60	12.9	10.6		12.8			12.3																			60
65	12.3	10.1		12.3	10		12	9.8																		65
70	11.7	9.6		11.8	9.6		11.6	9.5																		70
75	11.1	9.2		11.3	9.2		11.2	9.1																		75
80	10.6	8.8		10.8	8.9		10.7	8.8																		80
85	10	8.5	7.1	10.3	8.6		10.3	8.5																		85
90	9.5	8.1	6.9	9.8	8.3		9.9	8.3																		90
95	9.1	7.8	6.7	9.4	8	6.7	9.5	8	6.7	9.6	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	6.5	9.2	7.8	6.5	9.2	7.8	6.5	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	8.9	7.6	6.3	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	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	8.5	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	8.3	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	8	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	6	7.8	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	7.6	6.7	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	5.9	7.4	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	7.1	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	6.9	6.3	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	6.7	6.2	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	6.5	6.1	5.7	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	5.8	6.3	6	5.7	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	6.2	5.8	5.7	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	6	5.7	5.7	6	5.7	5.7	175	
180							5.2			5.4	5.4		5.5	5.5	5.7	5.3	5.5	5.7	5.3	5.5	5.7	5.3	5.5	5.7	180	
185										5.3	5.3		5.2	5.3		5.1	5.2		5.5	5.5	5.7	5.5	5.5	185		
190										5.2	5.3					5.1	5.2		5.5	5.4	5.6	5.4	5.6	190		
195										5.1						4.9	5		5.3	5.3	5.5	5.3	5.5	195		
200																4.7	4.8		5.1	5.2	5.4	5.1	5.2	200		
205																4.6	4.7		5	5		4.8	4.9	205		
210																4.5			4.8	4.9		4.6	4.7	210		
215																			4.7	4.8		4.6	4.7	215		
220																			4.6	4.7		4.6	4.7	220		

t_242_05410_00_000

Lifting capacities

Forces de levage

TVNZK



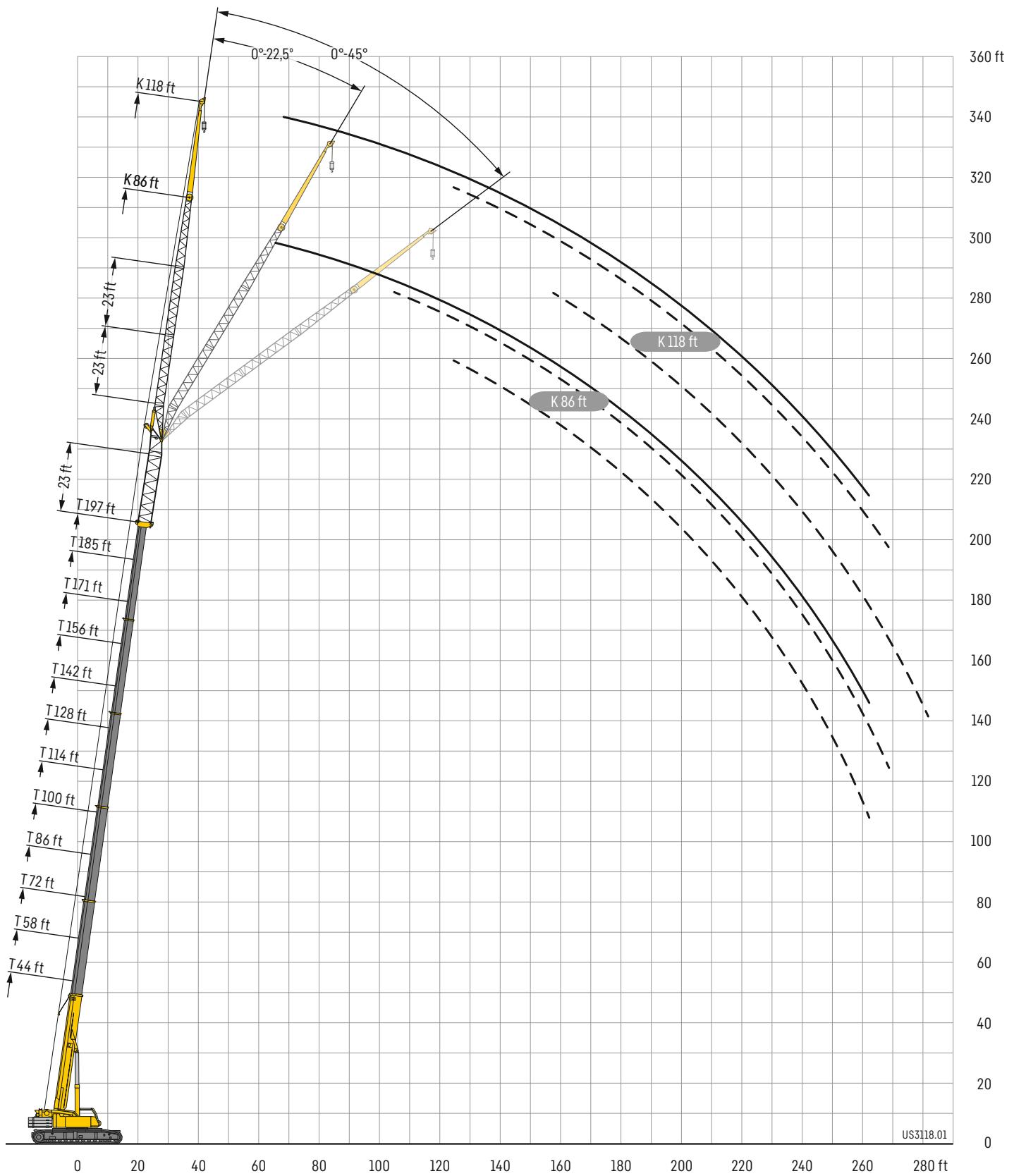
	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	10.3			9.9															45
50	10.3			9.8															50
55	10.2			9.8			9.2												55
60	10.2			9.7			9.2			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	

t_242_05410_00_000

Lifting heights

Hauteurs de levage

TVNZK



Lifting capacities

Forces de levage

TVNZK



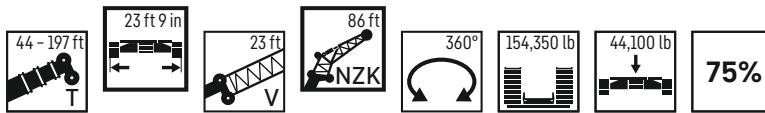
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft							
	86 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
22	22.6			20.2																						22		
24	22.5			20.2																						24		
26	22.5			20.2																						26		
28	22.4			20.2																						28		
30	22.2			20.2																						30		
32	21.9			20.1																						32		
34	21.6			20																						34		
36	21.2			19.9																						36		
38	20.7			19.8																						38		
40	20.2			19.6																						40		
45	18.9			19																						45		
50	17.7			18.2																						50		
55	16.5	13.3		17.4																						55		
60	15.4	12.6		16.5	12.5																					60		
65	14.4	11.9		15.6	11.9																					65		
70	13.5	11.2		14.7	11.3																					70		
75	12.6	10.6		13.8	10.8																					75		
80	11.7	10.1	8.3	13	10.3	8.3																				80		
85	10.9	9.6	8	12.3	9.8	8.1																				85		
90	10.2	9.2	7.8	11.5	9.4	7.9																				90		
95	9.6	8.9	7.6	10.8	9.1	7.7																				95		
100	9	8.5	7.4	10.2	8.8	7.5																				100		
105	8.5	8.2	7.3	9.6	8.5	7.4																				105		
110	8	8	7.2	9	8.2	7.3																				110		
115	7.6	7.7	7.1	8.6	8	7.1																				115		
120	7.2	7.4	7	8.2	7.7	7.1																				120		
125	6.9	7	7	7.8	7.4	7																				125		
130	6.6	6.7	6.8	7.4	7.2	7																				130		
135	6.3	6.4	6.7	7.1	6.9	6.9																				135		
140	6	6.2		6.8	6.6	6.7																				140		
145	5.8			6.5	6.4																					145		
150				6.2	6.2																					150		
155				6	6.1																					155		
160						6.2	6.1																			160		
165						6	6																				165	
170							5.8	6																			170	
175																												175
180																												180
185																												185
190																												190
195																												195
200																												200
205																												205
210																												210
215																												215

t_242_04400_00_000

Lifting capacities

Forces de levage

TVNZK



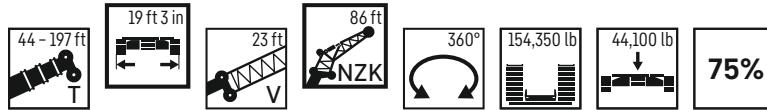
	128 ft + 23 ft			142 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			185 ft + 23 ft			197 ft + 23 ft			
	86 ft																		
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
45	13.1			12.3															
50	13			12.2															
55	12.8			12.1			11.2												
60	12.7			12			11.1			10.3			9.4						
65	12.5			11.9			11			10.2			9.4			8.3			
70	12.3			11.8			10.8			10.1			9.3			8.2			
75	12.1			11.6			10.7			10			9.1			8.1			
80	11.8	9.8		11.4			10.5			9.9			9.1			8			
85	11.5	9.6		11.2	9.5		10.4			9.7			9			7.9			
90	11.2	9.3		10.9	9.2		10.2			9.6			8.9			7.8			
95	10.8	9.1		10.6	9		10.1	8.9		9.5	8.7		8.8			7.7			
100	10.5	8.9		10.2	8.8		9.9	8.7		9.3	8.5		8.7	8.1		7.6			
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		
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		
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		
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		
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	
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	
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	
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	
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	
150	7.6	7	6.7	7.7	7.1	6.7	7.6	7	6.6	7.6	7.6	6.9	6.5	7.4	6.8	6.4	7	6.5	
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	
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	
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	
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	
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	
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	
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	
190	5.6	5.8	6	6	6.1	6.1	6.1	6	6	6.3	6	6	6.3	5.9	5.9	5.5	5.6	5.6	
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	
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	
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	
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	
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	
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	
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	
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	
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
240						4.1				4.4	4.6	4.7	3.7	4.6	4.9	3.3	3.7	4	
245							3.8	3.9		4.2	4.4	4.5	3.3	4.1	4.4	2.9	3.5	3.8	
250							3.6	3.7		4	4.2		2.9	3.7	3.8	2.5	3.3	3.5	
255								1.7		3.7	4		2.5	3.2	3.3	2.1	3	3.2	
260									3.3	3.7		2.1	2.7		1.8	2.5	2.7	2.6	
265										1.7		2.3			1.3	2.1	2.2	2.6	
270											1.4					1.7		2.7	
275												1.4							

t_242_04400_00_000

Lifting capacities

Forces de levage

TVNZK



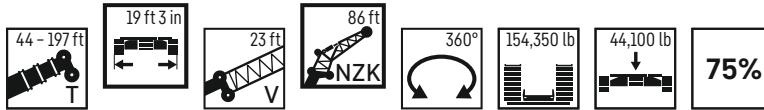
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft											
	86 ft				0°			22.5°			45°			0°			22.5°			45°			0°			22.5°			45°			
22	22.6			20.2																											22	
24	22.5			20.2																										24		
26	22.5			20.2																										26		
28	22.4			20.2																										28		
30	22.2			20.2																										30		
32	21.9			20.1																										32		
34	21.6			20																											34	
36	21.2			19.9																										36		
38	20.7			19.8																										38		
40	20.2			19.6																										40		
45	18.9			19																											45	
50	17.7			18.2																										50		
55	16.5	13.3		17.4																										55		
60	15.4	12.6		16.5	12.5																								60			
65	14.4	11.9		15.6	11.9																									65		
70	13.5	11.2		14.7	11.3																									70		
75	12.6	10.6		13.8	10.8																									75		
80	11.7	10.1	8.3	13	10.3	8.3																								80		
85	10.9	9.6	8	12.3	9.8	8.1																								85		
90	10.2	9.2	7.8	11.5	9.4	7.9																								90		
95	9.6	8.9	7.6	10.8	9.1	7.7																								95		
100	9	8.5	7.4	10.2	8.8	7.5																								100		
105	8.5	8.2	7.3	9.6	8.5	7.4																								105		
110	8	8	7.2	9	8.2	7.3																								110		
115	7.6	7.7	7.1	8.6	8	7.1																								115		
120	7.2	7.4	7	8.2	7.7	7.1																								120		
125	6.9	7	7	7.8	7.4	7																								125		
130	6.6	6.7	6.8	7.4	7.2	7																								130		
135	6.3	6.4	6.7	7.1	6.9	6.9																								135		
140	6	6.2		6.8	6.6	6.7																								140		
145	5.8			6.5	6.4																										145	
150				6.2	6.2																										150	
155				6	6.1																										155	
160						6.2	6.1																								160	
165						6	6																								165	
170							5.8	6																							170	
175																																175
180																																180
185																																185
190																																190
195																																195
200																																200
205																																205
210																																210
215																																215

t_242,04410,00,000

Lifting capacities

Forces de levage

TVNZK



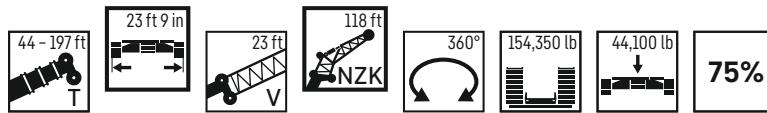
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft					
	86 ft																									
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°		
45	13.1			12.3																						45
50	13			12.2																						50
55	12.8			12.1			11.2																			55
60	12.7			12			11.1																			60
65	12.5			11.9			11																			65
70	12.3			11.8			10.8																			70
75	12.1			11.6			10.7																			75
80	11.8	9.8		11.4			10.5																			80
85	11.5	9.6		11.2	9.5		10.4																			85
90	11.2	9.3		10.9	9.2		10.2																			90
95	10.8	9.1		10.6	9		10.1	8.9																		95
100	10.5	8.9		10.2	8.8		9.9	8.7																		100
105	10.1	8.7	7.3	9.9	8.6	7.2	9.6	8.5																		105
110	9.7	8.5	7.2	9.7	8.5	7.2	9.4	8.3																		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											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	7.6	6.9	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

t_242_04410_00_000

Lifting capacities

Forces de levage

TVNZK



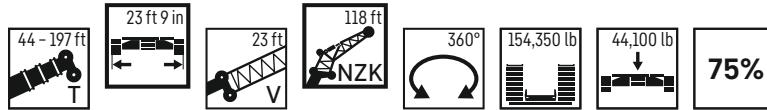
		44 ft + 23 ft			58 ft + 23 ft			72 ft + 23 ft			86 ft + 23 ft			100 ft + 23 ft			114 ft + 23 ft						
0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°			
24	10.1																					24	
26	10.5																					26	
28	10.8			9.9																		28	
30	11			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										45	
50	10.2			9.9			9.3					8.9										50	
55	9.8			9.6			9.1					8.8										55	
60	9.4			9.3			8.9					8.7										60	
65	9.1			9			8.7					8.5										65	
70	8.7	7.2		8.6			8.4					8.3										70	
75	8.3	6.9		8.3			8.1					8										75	
80	7.9	6.6		8	6.6		7.9					7.8										80	
85	7.5	6.3		7.7	6.3		7.6	6.2				7.5	6.2									85	
90	7.2	6		7.3	6.1		7.3	6				7.3	6									90	
95	6.9	5.8		7	5.8		7	5.8				7.1	5.8									95	
100	6.6	5.5		6.7	5.6		6.8	5.6				6.8	5.6									100	
105	6.2	5.3	4.4	6.4	5.4		6.5	5.4				6.6	5.4									105	
110	6	5.1	4.3	6.2	5.2	4.3	6.3	5.2	4.3			6.4	5.3									110	
115	5.7	4.9	4.2	5.9	5	4.2	6	5.1	4.2			6.2	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						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	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	3.6			4.1	3.7	3.6	4.1	3.7	3.5	4.3	3.8	3.5	180		
185							3.4	3.6	3.6			3.9	3.6	3.6	4	3.7	3.5	4.1	3.7	3.5	185		
190							3.3					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																		3.3	3.3		230		
235																		3.2	3.3		235		
240																		3.2	3.3		240		
245																		3.2	3.3		245		

L242_06400_00_000

Lifting capacities

Forces de levage

TVNZK



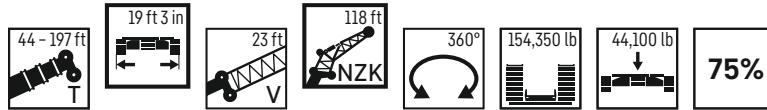
	128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
55	7.5			7.2			6.7			6.2			5.7			5.6			4.5			55		
60	7.5			7.2			6.7			6.1			5.6			4.5			4.3			60		
65	7.4			7.1			6.7			6.2			5.7			5.6			4.5			65		
70	7.4			7.1			6.6			6.1			5.6			4.5			4.3			70		
75	7.3			7			6.6			6.1			5.6			4.5			4.3			75		
80	7.2			7			6.5			6.1			5.6			4.5			4.3			80		
85	7			6.8			6.5			6			5.6			4.5			4.3			85		
90	6.8			6.7			6.4			6			5.5			4.4			4.2			90		
95	6.7			6.6			6.3			6			5.5			4.3			4.2			95		
100	6.5	5.4		6.4			6.2			5.9			5.5			4.3			4.2			100		
105	6.4	5.3		6.3	5.2		6.1			5.8			5.4			4.2			4.1			105		
110	6.2	5.1		6.1	5.1		6	5		5.7	4.9		5.4			4.1			4.0			110		
115	6	5		6	5		5.8	4.9		5.6	4.8		5.3			4.1			4.0			115		
120	5.9	4.9		5.8	4.8		5.7	4.8		5.5	4.7		5.2	4.6		4			4.0			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		4.0			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		3.7			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		3.7			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		3.6			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		3.6			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	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	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	3.7	3.8		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	3.6		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	3.7		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	3.5		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	3.5		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	3.5		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	3.5		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	3.5		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	3.5		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	3.5		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	3.5		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	3.2		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	3.2		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	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	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	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	3		240			
245	2.9	3.1		3.2	3.2		3.2	3.2	3.3	3.2	3.2	3.3	3.2	3.1	3.2	2.4	2.8	3	2.5		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	2.5		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	2.5		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	2.6	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	2.6		265			
270				2.7			2.4	2.6		2.7	2.9	3.1	1.6	2.7	3.2	2	2.3	2.7	2.6		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					2.85					
290										1.5									2.90					

t_242_06400_00_000

Lifting capacities

Forces de levage

TVNZK



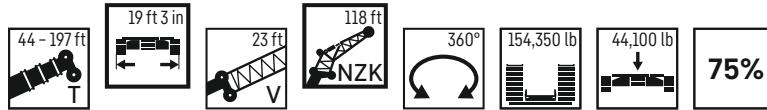
	44 ft + 23 ft				58 ft + 23 ft				72 ft + 23 ft				86 ft + 23 ft				100 ft + 23 ft				114 ft + 23 ft				
	118 ft				0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
24	10.1																							24	
26	10.5																							26	
28	10.8				9.9																			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												45	
50	10.2				9.9			9.3				8.9												50	
55	9.8				9.6			9.1				8.8												55	
60	9.4				9.3			8.9				8.7												60	
65	9.1				9			8.7				8.5												65	
70	8.7	7.2			8.6			8.4				8.3												70	
75	8.3	6.9			8.3			8.1				8												75	
80	7.9	6.6			8	6.6		7.9				7.8												80	
85	7.5	6.3			7.7	6.3		7.6	6.2			7.5	6.2											85	
90	7.2	6			7.3	6.1		7.3	6			7.3	6											90	
95	6.9	5.8			7	5.8		7	5.8			7.1	5.8											95	
100	6.6	5.5			6.7	5.6		6.8	5.6			6.8	5.6											100	
105	6.2	5.3	4.4	6.4	5.4			6.5	5.4			6.6	5.4											105	
110	6	5.1	4.3	6.2	5.2	4.3		6.3	5.2	4.3		6.4	5.3											110	
115	5.7	4.9	4.2	5.9	5	4.2		6	5.1	4.2		6.2	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							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				230	
235																					3.2	3.3		235	
240																					3.2	3.3		240	
245																					3.2	3.3		245	

L242_06410_00_000

Lifting capacities

Forces de levage

TVNZK



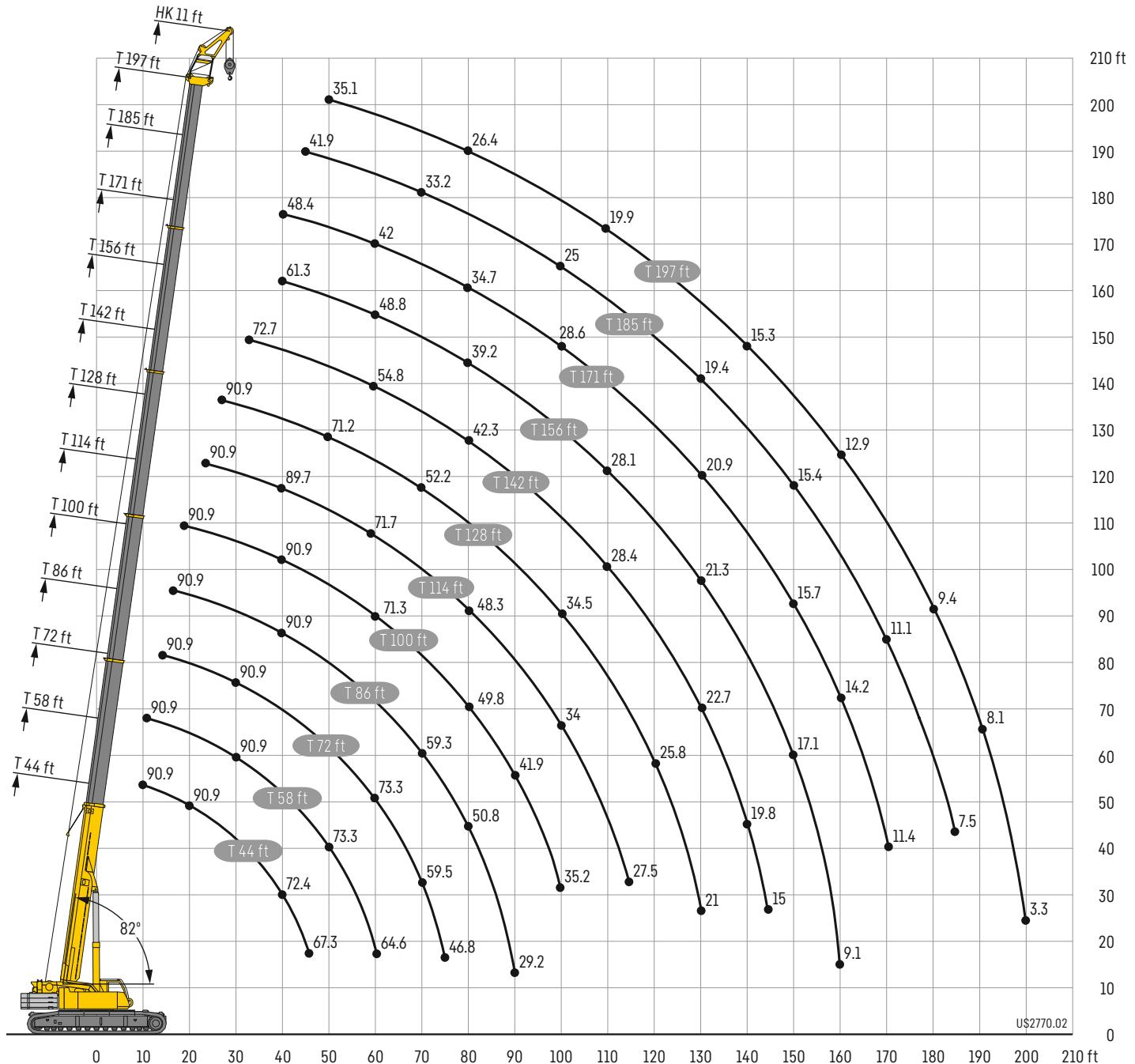
118 ft																128 ft + 23 ft				142 ft + 23 ft				156 ft + 23 ft				171 ft + 23 ft				185 ft + 23 ft				197 ft + 23 ft			
0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°										
55	7.5					7.2																							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									70											
75	7.3					7			6.6				6.1						5.6									75											
80	7.2					7			6.5				6.1						5.6									80											
85	7					6.8			6.5				6						5.6									85											
90	6.8					6.7			6.4				6						5.5									90											
95	6.7					6.6			6.3				6						5.5									95											
100	6.5	5.4				6.4			6.2				5.9						5.5									100											
105	6.4	5.3				6.3	5.2		6.1				5.8						5.4									105											
110	6.2	5.1				6.1	5.1		6	5			5.7	4.9					5.4									110											
115	6	5				6	5		5.8	4.9			5.6	4.8					5.3									115											
120	5.9	4.9				5.8	4.8		5.7	4.8			5.5	4.7					5.2	4.6								120											
125	5.7	4.7				5.7	4.7		5.6	4.6			5.4	4.6					5.2	4.5								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	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	3.8						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	3.6	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	3.6	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	3.6	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	3.6	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				3.2	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	2.30						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	2.50							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												

t_242_06410_00_000

Lifting heights

Hauteurs de levage

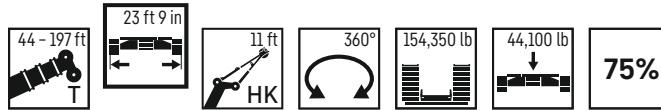
THK



Lifting capacities

Forces de levage

THK



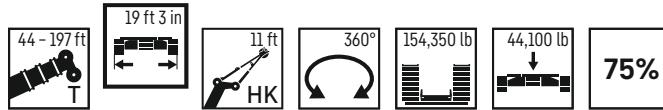
	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft			
						11 ft									
10	90.9												10		
11	90.9	90.9											11		
12	90.9	90.9											12		
13	90.9	90.9											13		
14	90.9	90.9	90.9										14		
15	90.9	90.9	90.9										15		
16	90.9	90.9	90.9	90.9									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	

t_242_07100_00_000

Lifting capacities

Forces de levage

THK



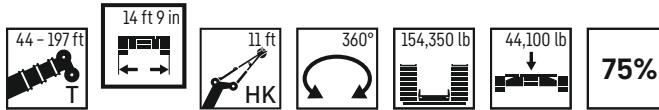
	44 ft	58 ft	72 ft	86 ft	100 ft	114 ft	128 ft	142 ft	156 ft	171 ft	185 ft	197 ft	
						11 ft							
10	90.9												10
11	90.9	90.9											11
12	90.9	90.9											12
13	90.9	90.9											13
14	90.9	90.9	90.9										14
15	90.9	90.9	90.9										15
16	90.9	90.9	90.9	90.9									16
17	90.9	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

t_242_07110_00_00

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
95						24.5	24.8	24.1	24	23.2	22	20.5	19.9
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

t_242_07110_00_000

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 abatement.
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 progressifs 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. Réglage mécanique 0°; 22.5°; 45°.
NZK	Double flechette pliante 40 ft - 72 ft. Réglage 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.		No. of sheaves Poulies
	Max. hoist height Hauteur de levage max.		No. of lines Brins
	Max. radius Portée max.		Weight Poids
	Driving force Puissance propulsive		infinitely variable en continu
	Total weight Poids total		Radius Portée
	Ground pressure Pression au sol		Width crawler chassis Largeur du train de chenilles
	Driving speed Vitesse de translation		Slewing gear / Working area Mécanisme d'orientation / Plage de travail
	Gradability Aptitude à gravir les pentes		over front / over rear ±10° en avant / en arrière ±10°
	Rope diameter Diamètre		Counterweight Contrepoids
	Rope length Longueur du câble		Central ballast Contrepoids central
	Max. single line pull Effort au brin maxi.		Standard Norme
	Hoist gear Treuil de levage		Telescopic boom Flèche télescopique
	Slewing speeds Vitesses d'orientation		Hydraulic swing away jib Fléchette pliante hydraulique
	Boom length Longueur de la flèche		Telescopic boom extension Rallonge flèche télescopique
	Boom position Position de la flèche		Assembly jib Fléchette de montage
	Hookblock/Capacity Moufle à crochet/Capacité de charge		

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 pictures contain also 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.

Customer Service

Personal. Competent. Reliable.
Personnalisé. Compétent. Fiable.



To ensure your Liebherr remains a Liebherr.

- Commission and training by experienced service technicians
- Worldwide service network with over 80 branches
- 24/7 technical support worldwide
- Fast availability of spare parts
- Attractive packages for maintenance and service

De sorte que votre Liebherr reste une Liebherr.

- Mise en route et formation effectuées par des techniciens qualifiés
- Service-Arès-Vente Mondial représenté par plus de 80 correspondants
- Assistance Technique 24/24 et 7/7 jours
- Rapide disponibilité des pièces de rechanges
- Kits d'entretiens pour révisions et mainteances à un prix attractif

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

Get Your
Contact



Änderungen vorbehalten · Subject to modification · Sous réserve de modifications · Con riserva di modifiche · Salvo modificaciones · Возможны изменения

Liebherr-Werk Ehingen GmbH · Postfach 1361 · 89582 Ehingen, Germany
+49 73 91 5 02-0 · www.liebherr.com

Printed in Germany [1]
lwe-tid-242-05-us0-2021

Courtesy of CraneMarket.com