

Mobile Crane/Grue mobile **LTM 1160-5.2**



	190 t (us)
	203 ft
	256 ft
	325 ft

LIEBHERR

Mobile Crane/Grue mobile **LTM 1160-5.2**



203 ft



35 ft – 131 ft



3 x 23 ft

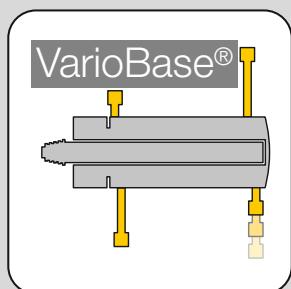


9 ft



119000 lbs

VarioBallast ballast radius
15.7 ft – 17.4 ft



Equipment Equipement



Crane carrier

Frame	Self-manufactured, weight-optimized and torsion resistant box-type design of high-tensile structural steel.
Outriggers	4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Automatic levelling of crane. Electronic inclination indicator.
Engine	6-cylinder Diesel, make Liebherr, watercooled, output 400 kW (544 h.p.), max. torque 1855 lbs-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96. Fuel reservoir: 198 gallons.
Transmission	ZF 12-speed gear box with automatic control system. ZF-intarder fitted directly to the gear. Two-stage transfer case with lockable transfer differential.
Axles	Low maintenance carrier axles, all 5 axles steered. Axle 2, 4 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 4 with longitudinal differential lock.
Suspension	All axles are mounted on hydropneumatic suspension – "Niveumatik suspension" and are lockable hydraulically.
Tyres	10 tyres. Size of tyres: 445/95 R 25 (16.00 R 25).
Steering	2-circuit system with hydraulic servo steering. Active speed depending rear axle steering, special steering programs for various driving situations.
Brakes	Service brake: all-wheel servo-air brake, all axles are equipped with disc brakes, dual circuit. Additional brakes: exhaust flap brake, Telma Eddy current brake (optional), intarder in gearbox. Hand brake: Spring-loaded, acting on all wheels of axles 2 to 5.
Driver's cab	Spacious corrosion resistant with comfort furnishings, mounted on rubber shock absorbers, safety glazing.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane drive	Mechanical drive of the crane hydraulic from the chassis. Variable axial piston pumps with servo control and power regulation.
Control	Electric „Load Sensing“ control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type).
Hoist gear	Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	1 differential ram with pilot-controlled brake valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. Slewing gear inversible from released to locked as standard feature.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
Telescopic boom	1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 43 ft to 203 ft.
Counterweight	74920 lbs basic counterweight.
Electrical system	Modern data bus technique, 24 Volt DC.

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

Operating modes

K	Special swing-away jib 9.5 ft Double swing-away jib 35 ft – 131 ft Adjustment 0°, 20°, 40°
NZK	Hydraulically adjustable swing-away jib 35 ft – 131 ft Hydraulically adjustment 0° – 40°
V	Telescopic boom extension 3 x 23 ft

Additional equipment

2nd hoist gear	For two-hook operation.
Tyres	10 tyres, size 525/80 R 25 (20.5 R 25).
Drive 10 x 8	Additional drive of the 1 st axle.
Additional counterweight	44080 lbs for a total counterweight of 119000 lbs.

Other items of equipment available on request.

Description of symbols

Explication des symboles



General symbols/Symboles généraux

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

Crane specific symbols/Symboles spécifiques à la grue

	Telescopic boom Flèche télescopique		Telescopic boom extension Rallonge flèche télescopique
	Assembly jib Flechette de montage		Hydraulic swing away jib Flechette pliante hydraulique

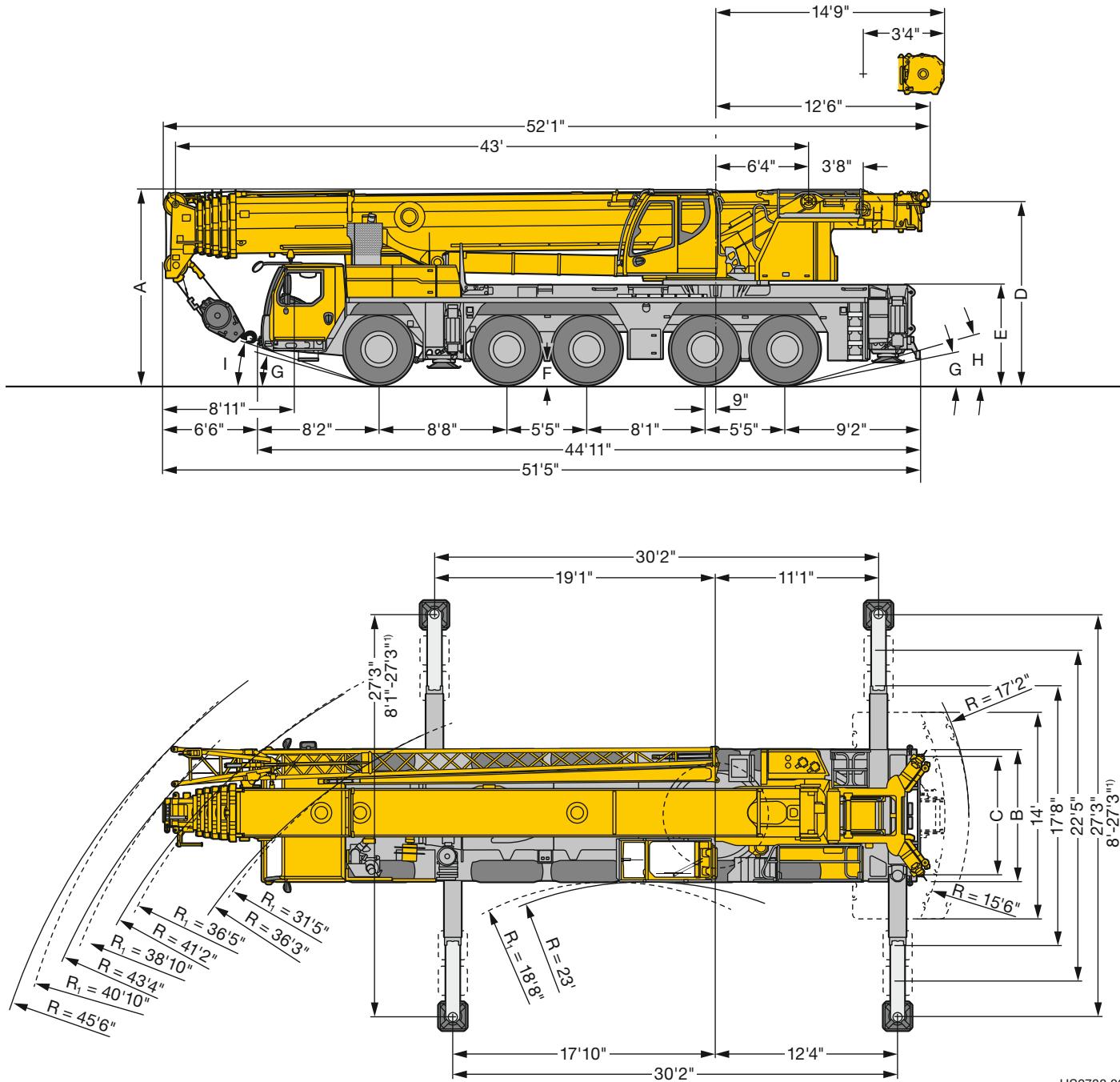
Remarks

1. The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 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 kips.
5. The weight of the hook blocks and hooks must be deducted from the lifting capacities.
6. Working radii are measured from the slewing centre.
7. The stated lengths of the telescopic boom are maximum values and may deviate slightly.
8. The lifting capacities given for the telescopic boom apply if the folding jib is removed.
9. Subject to modification of lifting capacities.
10. Lifting capacities above 189600 lbs/321900 lbs only with additional pulley block/special equipment.
11. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.

Remarques

1. La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 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 forces de levage sont données en kips.
5. Les poids des moufles et crochets doit être soustrait des charges indiquées.
6. Les portées sont calculées à partir de l'axe de rotation.
7. Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.
8. Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
9. Charges données sous réserve de modification.
10. Forces de levage plus de 189600 lbs/321900 lbs seulement avec moufle additionnel/équipement supplémentaire.
11. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.

Dimensions Encombrement



B = All-wheel steering · Direction toutes roues

¹⁾ only with VarioBase® - seulement avec VarioBase®

Dimensions/Encombrement

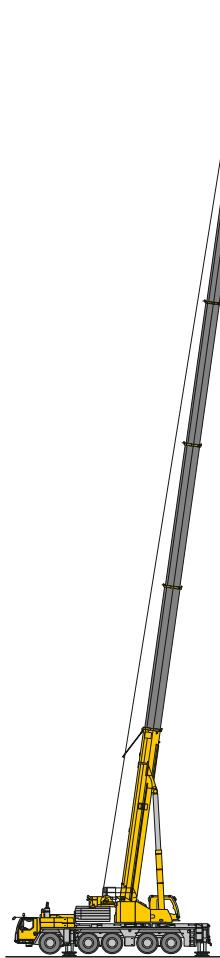
	A	A 4" *	B	C	D	E	F	G	H	I
445/95 R 25 (16.00 R 25)	13'1"	12'10"	9'	7'7"	12'4"	6'9"	1'5"	11°	15°	18°
525/80 R 25 (20.5 R 25)	13'1"	12'10"	9'4"	7'7"	12'4"	6'9"	1'5"	11°	15°	18°

* lowered · abaissé



Boom/jib combinations Configurations de flèche

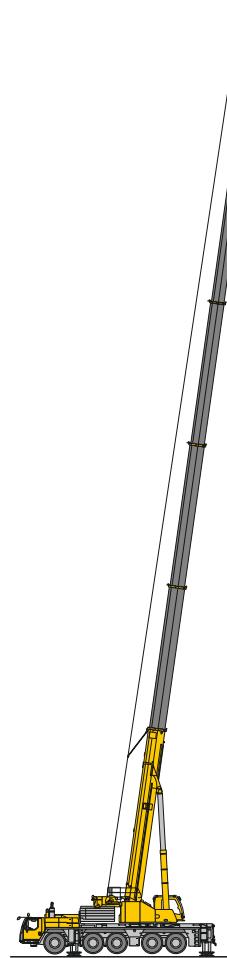
- T** Telescopic boom/Flèche télescopique
- K** Assembly jib/Flechette de montage
- NZK** Hydraulic swing away jib/Fléchette pliante hydraulique
- V** Telescopic boom extension/Rallonge de flèche télescopique



T

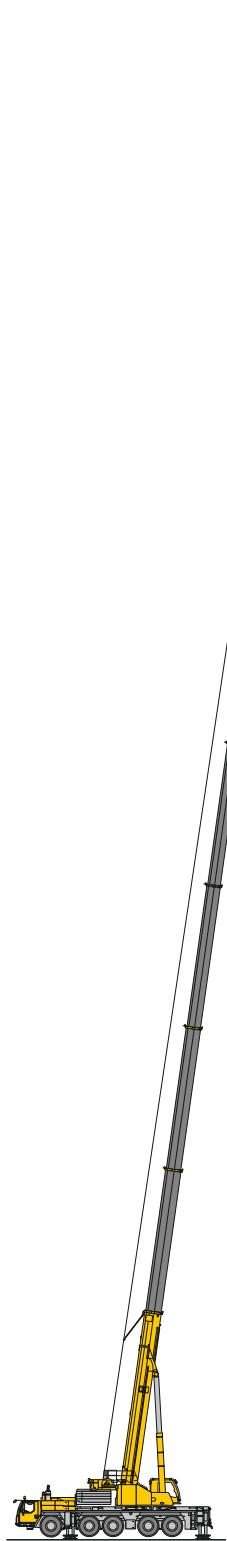


12 – 30



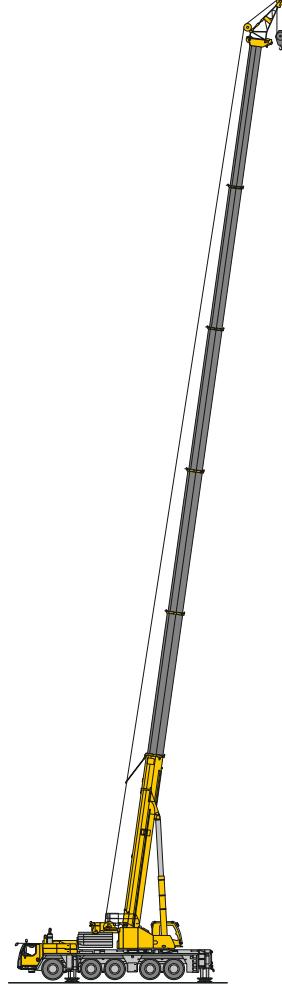
TK/TNZK

31 – 39



TVK/TVNZK

40 – 66



TK

S2911

67 – 69



Hook block/Moufles à crochet

Load kips Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
321.9	9	18	2910
189.6	5	10	2870/1980
135.8	3	7	1540
60	1	3	1430
20.3	—	1	770

Working speeds Vitesses

Crane carrier/Châssis porteur

	(mph) min.	(mph) max.	 %
445/95 R 25 (16.00 R 25)	0.3	53	55.7 %
525/80 R 25 (20.5 R 25)			

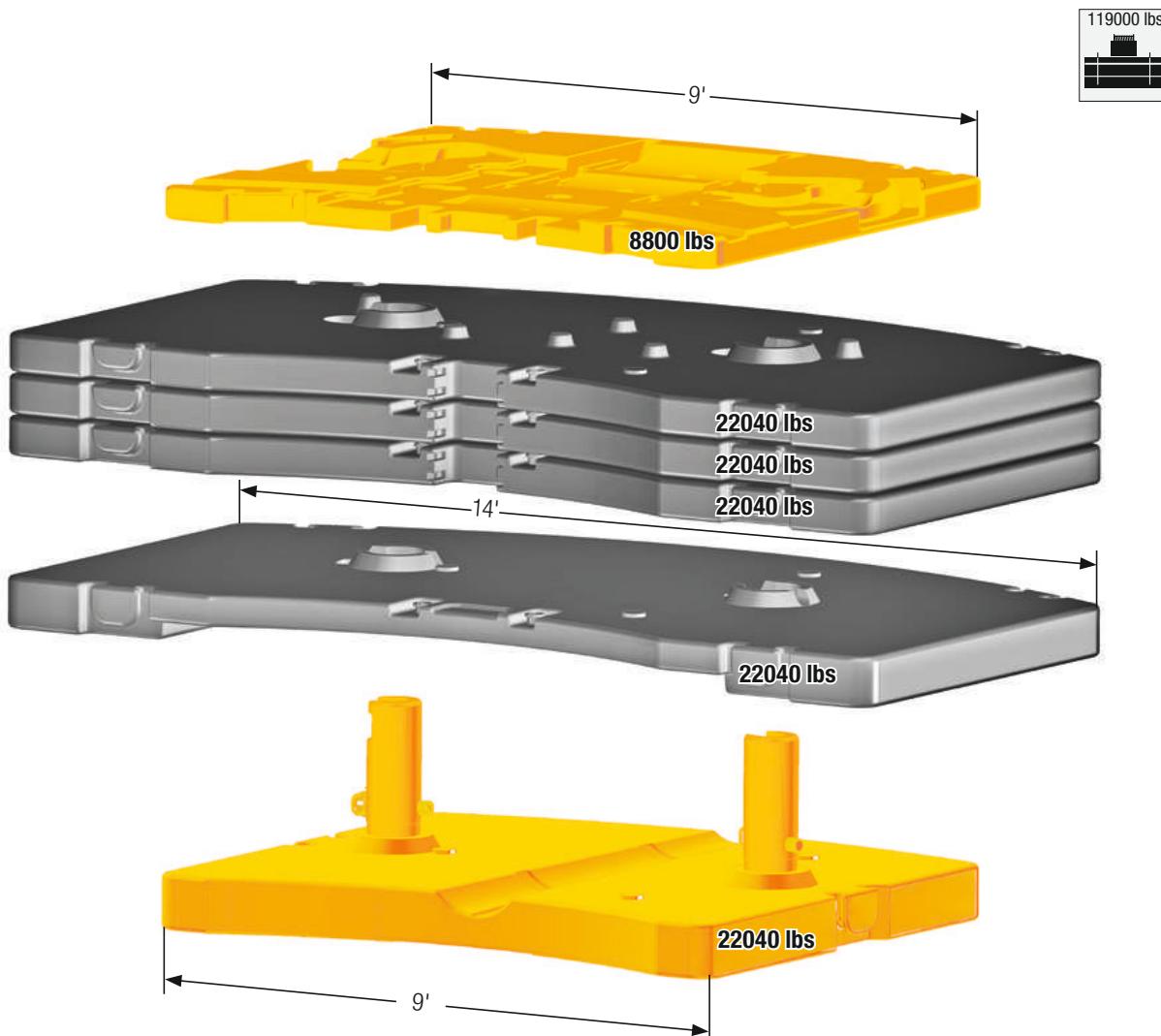
Theoretical gradeability/Aptitude théorique en pente

	
	12 / R2
	4 / R2

Crane superstructure/Partie tournante

Drive Mécanismes	infinitely variable en continu	Rope diameter / length Diamètre / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 – 440 ft/min single line ft/min au brin simple	0.83" / 968 ft	20600 lbs
	0 – 440 ft/min single line ft/min au brin simple	0.83" / 968 ft	20600 lbs
	0 – 1.2 rpm		
	approx. 65 seconds to reach 82° boom angle env. 65 s jusqu'à 82°		
	approx. 400 seconds for boom extension from 43 ft – 203 ft env. 400 s pour passer de 43 ft – 203 ft		

Counterweight Contrepoids

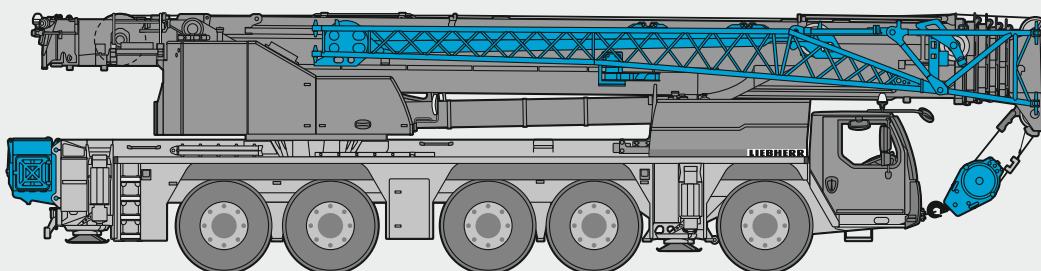


Technically transportable · Transport techniquement simplifié

Axle/Essieu

Axle Essieu	1	2	3	4	5	Total weight lbs Poids total lbs
lbs	26400	26400	26400	26400	26400	132000 ¹⁾

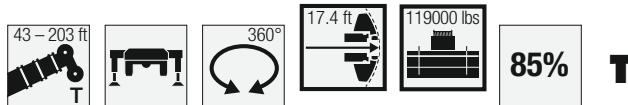
¹⁾ with double swing away jib, 3-sheave hook block, 2205 lbs lifting tackle - avec fléchette pliante double, moufle à crochet à trois poulettes, accessoires de levage de 2205 lbs



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Lifting capacities

Forces de levage



	43 ft		57 ft	72 ft	87 ft	102 ft	116 ft	131 ft	146 ft	161 ft	176 ft	191 ft	203 ft			
	*															
10	352.7	189.6	189.6	189.6										10		
11	313.1	189.6	189.6	189.6	189.6									11		
12	300.9	189.6	189.6	189.6	189.6									12		
13	289.8	189.6	189.6	189.6	189.6									13		
14	279.3	189.6	189.6	189.6	189.6									14		
15	268.7	189.6	189.6	189.6	189.6	166.6								15		
16	256.8	189.6	189.6	189.6	189.6	165.4								16		
17	242.6	189.6	189.6	189.6	189.6	164.2								17		
18	229.5	189.6	189.6	189.6	189.6	163	131.3							18		
19	217.5	189.6	189.5	189.6	189.3	161.8	130							19		
20	206.6	188.4	186.8	188.5	188.6	160.6	128.7							20		
22	187.7	175.9	176.7	176.3	175.4	158.1	126.1	94.6						22		
24	171.9	164	165.3	164.8	165.3	155.2	123.5	91.3	74.7					24		
26	158.3	152.8	154.5	155	154.3	151.3	120.9	88	73.3					26		
28	146.5	142.7	144.5	145	144.4	143.3	118.4	84.7	71.4	59.3				28		
30	136.2	133.7	135.5	136	135.2	134.3	115.9	81.6	69.4	58.2				30		
32	127.2	125.1	127	127.5	126.8	125.8	113.5	78.9	67.5	56.9	48.8			32		
34	119.2	116.5	118.5	119.2	118.6	117.5	111	76.4	65.5	55.7	47.9			34		
36	106.3	106.2	110.9	111.5	110.9	109.7	108.5	73.9	63.6	54.4	47	37.7		36		
38			104	104.6	103.9	104.6	104.5	71.4	61.8	53.2	46.1	37.3	30.3	38		
40				97.9	98.4	97.8	99.5	98.4	69.1	60.1	51.9	45.2	36.7	30	40	
45				83.9	84.5	85.9	85.6	84.3	63.9	55.6	48.6	43	35.4	29	45	
50					72.9	73.4	75.3	74.6	73.4	58.9	52	45.3	41	34.2	28	50
55						64.6	66.4	65.6	64.3	54.7	48.5	42.6	39.2	32.9	26.9	55
60						59	59.1	58.3	57	50.7	45.3	40	37.3	31.5	25.8	60
65						52.9	52.8	52	50.7	47.5	42.5	37.6	35.3	30.3	24.8	65
70							47.5	46.6	45.3	44.5	39.7	35.5	33.4	29	23.8	70
75							42.9	42	40.7	41.6	37.3	33.4	31.6	27.8	22.7	75
80							38.9	38.2	36.8	37.6	35.1	31.5	29.9	26.6	21.7	80
85								35.7	34.8	34.2	32.8	29.7	28.3	25.4	20.7	85
90								32.8	33	31.2	30.8	28.1	26.8	24.3	19.6	90
95								28.7	30.3	28.5	28.6	26.6	25.4	23.2	18.6	95
100									28	26.1	26.2	25.1	24	22.1	17.7	100
105									25.9	24.5	24.1	23.1	22.8	21	16.7	105
110									20.7	23.5	22.2	21.9	21.3	20	15.9	110
115										22.2	20.4	20.6	19.6	19.1	15	115
120										20.6	18.9	19	18.8	18.2	14.2	120
125										14.2	17.6	17.6	17.9	17.2	13.5	125
130											17	16.3	16.7	15.8	12.8	130
135											16.5	15	15.5	14.6	12.1	135
140												13.9	14.3	13.5	11.6	140
145												13.3	13.3	12.4	11.1	145
150												12.8	12.4	11.6	10.6	150
155												11.6	10.8	10.1	155	
160													10.9	10.1	9.7	160
165													10.3	9.4	9.3	165
170														8.8	8.8	170
175														8.2	8.2	175
180														7.7	7.7	180
185														7.1	7.1	185
190														6.7	6.7	190
195														6.2	6.2	195

* ± 0° over rear · en arrière

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Lifting capacities

Forces de levage



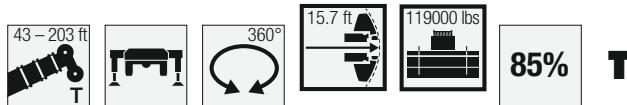
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	43 ft	57 ft	72 ft	87 ft	102 ft	116 ft	131 ft	146 ft	161 ft	176 ft	191 ft	203 ft	
10	189.6	189.6	189.6										10
11	189.6	189.6	189.6	189.6									11
12	189.6	189.6	189.6	189.6									12
13	189.6	189.6	189.6	189.6									13
14	189.6	189.6	189.6	189.6									14
15	189.6	189.6	189.6	189.6	166.6								15
16	189.6	189.6	189.6	189.6	165.4								16
17	189.6	189.6	189.6	189.6	164.2								17
18	189.6	189.6	189.6	189.6	163	131.3							18
19	189.6	189.6	189.6	189.6	161.8	130							19
20	189.6	189.6	189.6	189.6	160.6	128.7							20
22	186.9	185.8	187.3	182.7	158.1	126.1	94.6						22
24	171.9	172.7	172.6	171.8	155.2	123.5	91.3	74.7					24
26	158.3	160.1	160.5	160	152.3	120.9	88	73.3					26
28	146.5	148.4	149	148.5	146.7	118.4	84.7	71.4	59.3				28
30	136.2	138.1	138.7	137.9	136.9	115.9	81.6	69.4	58.2				30
32	127.2	129	129.6	129	127.8	113.5	78.9	67.5	56.9	48.8			32
34	119.2	121	121.5	121	120.1	111	76.4	65.5	55.7	47.9			34
36	106.3	113.8	114.3	113.8	112.8	108.5	73.9	63.6	54.4	47	37.7		36
38		107.3	107.9	107.2	106.3	105.4	71.4	61.8	53.2	46.1	37.3	30.3	38
40		101.6	102	101.5	101.4	101.2	69.1	60.1	51.9	45.2	36.7	30	40
45		89.2	89.6	89.1	90.5	89.4	63.9	55.6	48.6	43	35.4	29	45
50			77.5	79.7	79.5	80.6	79.1	58.9	52	45.3	41	34.2	28
55				69.5	71.5	70.7	69.3	54.7	48.5	42.6	39.2	32.9	26.9
60					61	62.9	62.1	60.8	50.7	45.3	40	37.3	31.5
65						55.9	55.1	53.8	47.5	42.5	37.6	35.3	30.3
70							50.2	49.3	48.1	44.5	39.7	35.5	33.4
75								45.4	44.5	43.2	42.1	37.3	33.4
80								38.9	40.4	39.1	39.6	35.1	31.5
85									36.9	35.5	36.3	33.1	29.7
90										34	33.2	33.2	31.2
95											31.7	30.5	29.3
100											29.9	28	27.9
105												27.7	25.9
110												20.7	24.1
115													22.6
120													22.3
125													21.3
130													21.7
135													20.6
140													19.1
145													19.1
150													15.9
155													15
160													11.1
165													9.7
170													9.5
175													8.8
180													8.5
185													8.2
190													8.1
195													7.5

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Lifting capacities

Forces de levage



	43 ft	57 ft	72 ft	87 ft	102 ft	116 ft	131 ft	146 ft	161 ft	176 ft	191 ft	203 ft	
	*												
10	352.7	189.6	189.6	189.6									10
11	307.6	189.6	189.6	189.6	189.6								11
12	295.6	189.6	189.6	189.6	189.6								12
13	284.6	189.6	189.6	189.6	189.6								13
14	274.3	189.6	189.6	189.6	189.6								14
15	263.3	189.6	189.6	189.6	189.6	166.6							15
16	249.2	189.6	189.6	189.6	189.6	165.4							16
17	235.2	189.6	189.6	189.6	189.6	164.2							17
18	222.5	189.6	189.6	189.6	189.6	163	131.3						18
19	210.9	188.3	189.3	188.5	187.8	161.8	130						19
20	200.3	184.4	183.9	184.8	183.6	160.6	128.7						20
22	181.9	171.1	171.9	171.5	172.3	158.1	126.1	94.6					22
24	166.5	159.3	161	161.1	160.8	155	123.5	91.3	74.7				24
26	153.3	148.2	149.9	150.5	149.7	148.8	120.9	88	73.3				26
28	141.9	138.4	140.1	140.7	140.1	139	118.4	84.7	71.4	59.3			28
30	131.9	129.6	131.4	131.8	131.1	130.2	115.9	81.6	69.4	58.2			30
32	123.2	120.5	122.5	123.2	122.4	121.2	113.5	78.9	67.5	56.9	48.8		32
34	115.4	112.1	114.1	114.8	114.2	113.1	110.9	76.4	65.5	55.7	47.9		34
36	106.1	104.8	106.7	107.3	106.7	107.9	106.9	73.9	63.6	54.4	47	37.7	36
38			100.1	100.7	100	101.6	100.5	71.4	61.8	53.2	46.1	37.3	38
40			93.9	94.6	94.5	95.6	94.4	69.1	60.1	51.9	45.2	36.7	30
45			80.3	80.9	82.8	81.9	80.7	63.9	55.6	48.6	43	35.4	29
50			70.7	70.2	72.1	71.3	70.1	58.9	52	45.3	41	34.2	28
55				63.5	63.5	62.7	61.4	54.7	48.5	42.6	39.2	32.9	26.9
60				56.4	56.4	55.6	54.3	50.7	45.3	40	37.3	31.5	25.8
65				50.4	50.3	49.4	48.1	47.5	42.5	37.6	35.3	30.3	24.8
70					45.1	44.3	43	43.8	39.7	35.5	33.4	29	23.8
75					40.8	40.6	39.1	39.4	37.3	33.4	31.6	27.8	22.7
80					37.1	37.1	36.7	35.6	34.4	31.5	29.9	26.6	21.7
85						33.9	34.1	32.3	32.2	29.7	28.3	25.4	20.7
90						31	31.2	29.4	29.5	28.1	26.8	24.3	19.6
95						28.7	28.7	27.2	27	25.9	25.4	23.2	18.6
100							26.4	25.7	24.7	24.1	23.8	22.1	17.7
105							24.4	24.3	22.6	22.8	21.7	21	16.7
110							20.7	22.5	20.8	21	20.6	20	15.9
115								20.8	19.3	19.3	19.5	18.9	15
120								19.8	18.3	17.7	18.2	17.3	14.2
125								14.2	17.6	16.3	16.8	15.9	13.5
130									17	15.1	15.5	14.6	12.8
135									15.9	14.4	14.3	13.4	12.1
140										13.8	13.2	12.4	11.6
145										13	12.3	11.5	11.1
150										12.1	11.5	10.7	10.6
155											10.8	10	10
160											10.1	9.3	9.3
165											9.5	8.6	8.6
170												8.1	8
175												7.5	7.5
180												7	6.9
185													6.4
190													6
195													5.6

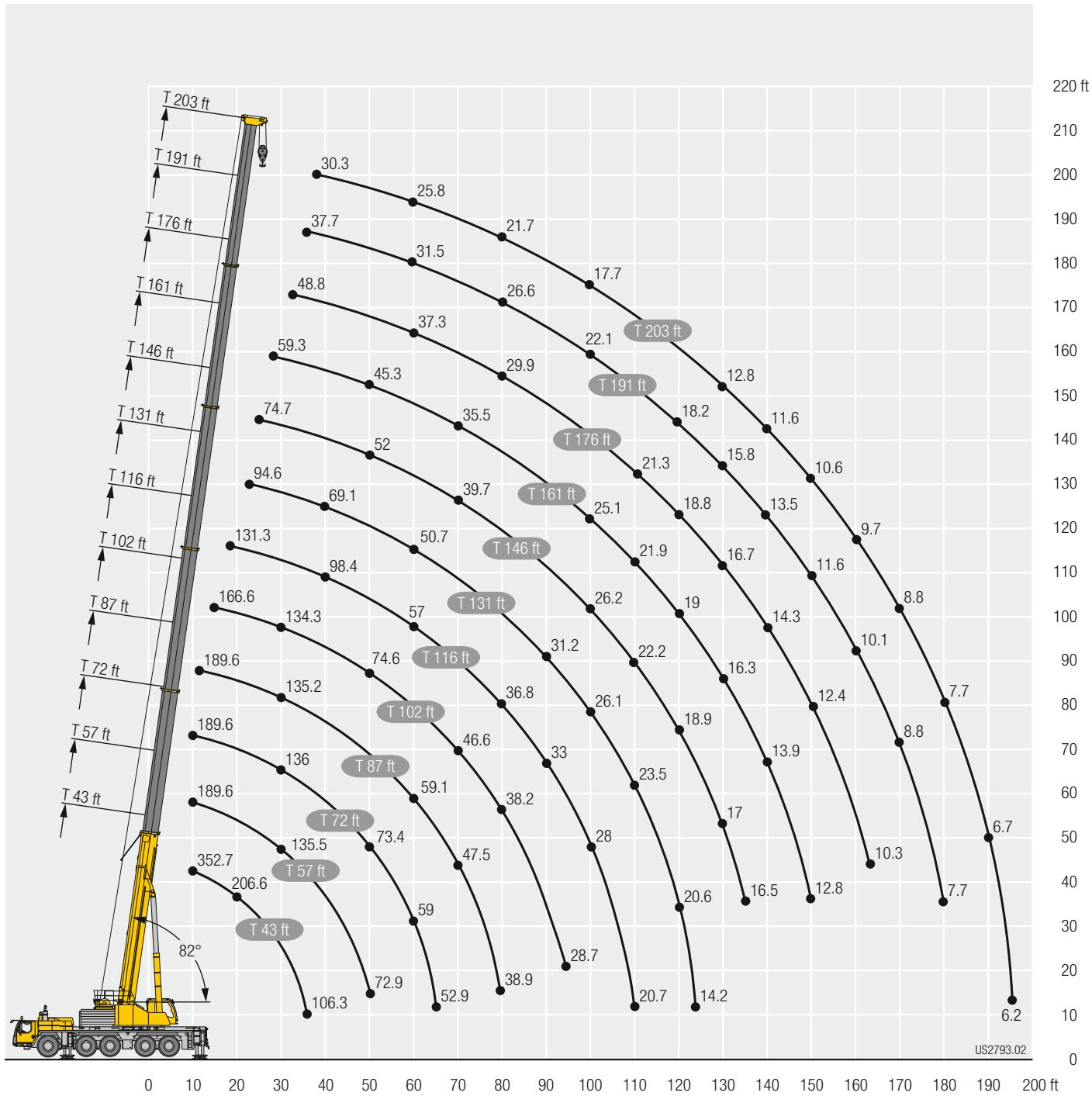
* ± 0° over rear · en arrière

t_253_001_51563_00_000 / 001_50045_00_000

Lifting heights

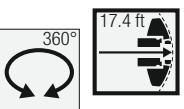
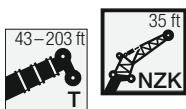
Hauteurs de levage

T



Lifting capacities

Forces de levage



85%

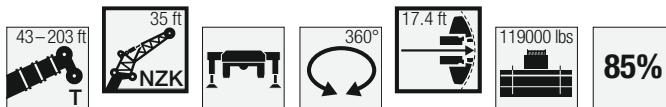
TNZK

	43 ft			57 ft			72 ft			87 ft			102 ft			116 ft				
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	40.3	34.7		40.3			40.3			40.3			40.3						17	
18	40	33.8		40.3			40.3			40.3			40.3			40.3			18	
19	39.3	33		40.3	34.9		40.3			40.3			40.3			40.3			19	
20	38.4	32.2		40.3	34.2		40.3			40.3			40.3			40.3			20	
22	36.7	30.7		40.1	32.8		40.3	34.5		40.3			40.3			40.3			22	
24	35	29.3		39	31.5		40.3	33.3		40.3	34.7		40.3			40.3			24	
26	33.4	28.1	24	37.6	30.3		40.2	32.1		40.3	33.7		40.3			40.3			26	
28	31.8	27	23.3	36.1	29.2	23.9	39.5	31.1		40.3	32.6		40.3	33.2		40.3			28	
30	30.3	25.9	22.5	34.7	28.2	23.3	38.2	30.1	23.8	40.3	31.6		40.3	32.3		39.9	31.2		30	
32	29	25	21.9	33.3	27.2	22.7	37	29.1	23.2	39.8	30.7	23.5	40.3	31.5		39.4	30.5		32	
34	27.8	24.1	21.3	32.1	26.3	22.1	35.7	28.2	22.7	38.7	29.9	23.1	40.3	30.6		38.7	29.8		34	
36	26.6	23.2	20.7	30.8	25.5	21.6	34.5	27.4	22.2	37.6	29	22.6	39.8	29.9	22.8	38.1	29.1		36	
38	25.5	22.5	20.1	29.5	24.7	21.1	33.3	26.6	21.7	36.5	28.3	22.2	39	29.1	22.4	37.4	28.5	22	38	
40	24.6	21.7	19.6	28.5	24	20.6	32.2	25.9	21.3	35.4	27.6	21.8	38.1	28.4	22	36.7	27.9	21.7	40	
45	21.9	20.1	18.5	26.1	22.3	19.6	29.5	24.2	20.3	32.9	25.8	20.8	35.7	26.8	21.1	35	26.4	20.9	45	
50	19	18.8	17.6	24	20.9	18.7	27.3	22.8	19.4	30.4	24.4	20	33.3	25.4	20.3	33.1	25.2	20.2	50	
55	16.7	17.7	16.9	21.5	19.7	17.9	25.4	21.5	18.7	28.3	23.1	19.3	31.1	24.1	19.7	31.5	24	19.5	55	
60	14.8	16.8	16.5	19	18.6	17.3	23.2	20.3	18	26.5	21.9	18.6	29.1	22.9	19	30	23	19	60	
65	13.2	15.9	16.3	17.1	17.7	16.7	21	19.3	17.4	24.7	20.9	18	27.4	21.9	18.4	28.5	22	18.4	65	
70	12	15.3		15.4	16.9	16.4	19	18.5	16.9	22.4	20	17.5	25.5	21	17.9	26.7	21.1	18	70	
75				14	16.3	16.2	17.3	17.7	16.5	20.5	19.1	17	23.5	20.1	17.4	24.8	20.4	17.5	75	
80				12.8	15.6		15.8	17.1	16.2	18.8	18.4	16.7	21.6	19.4	17	23.1	19.7	17.1	80	
85				11.8			14.6	16.5	16.1	17.3	17.7	16.3	20	18.7	16.7	21.6	19	16.8	85	
90							13.4	15.9		16	17.2	16.1	18.5	18.1	16.4	20.1	18.4	16.5	90	
95							12.4	15.4		14.9	16.7	16	17.2	17.5	16.1	18.8	17.9	16.2	95	
100							11.7			13.9	16.2		16.1	17	16	17.7	17.4	16	100	
105										13	15.7		15.1	16.6	15.9	16.6	16.9	15.8	105	
110										12.2	15.3		14.2	16.1		15.7	16.6	15.7	110	
115										11.6			13.4	15.7		14.9	16.2	15.6	115	
120													12.6	15.4		14.1	15.8	15.6	120	
125													12.1	15.1		13.4	15.4		125	
130													11.5			12.8	15.2		130	
135																12.2	15		135	
140																11.8	14.3		140	
145																11.4			145	

t_253_003_50265_00_000

Lifting capacities

Forces de levage



85%

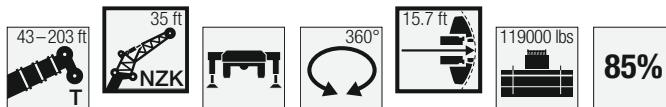
TNZK

	131 ft			146 ft			161 ft			176 ft			191 ft			203 ft				
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
22	39.2																		22	
24	38.8																		24	
26	38.3			33															26	
28	37.9			32.7															28	
30	37.5			32.4			28.4												30	
32	37.1			32.1			28.2			24.2									32	
34	36.6	29.3		31.8			27.9			24.1									34	
36	36.1	28.7		31.5			27.7			24				20.1					36	
38	35.4	28.2		31.2	26.5		27.5			23.9				20.1			15.9		38	
40	34.8	27.6		30.8	26.1		27.3			23.7				20			15.9		40	
45	33.3	26.3	20.8	29.8	25		26.7	23.7		23.4				19.9			15.8		45	
50	31.9	25.1	20.2	28.8	24	20	26	22.9	19.7	23.1	21.5			19.7	18.7		15.8		50	
55	30.6	24.1	19.5	27.8	23.1	19.5	25.4	22.2	19.2	22.7	20.9	18.3	19.5	18.4		15.7	15.8		55	
60	29.3	23.1	19	26.9	22.3	19	24.7	21.5	18.7	22.2	20.3	18	19.3	18.2	16.8	15.7	15.3		60	
65	28	22.2	18.5	26.1	21.5	18.6	24	20.8	18.3	21.7	19.8	17.6	19	17.8	16.5	15.2	14.8	14.6	65	
70	26.9	21.4	18	25.2	20.8	18.1	23.4	20.2	17.9	21.3	19.3	17.2	18.7	17.4	16.2	14.8	14.3	14.2	70	
75	25.7	20.6	17.6	24.4	20.2	17.7	22.8	19.6	17.5	20.9	18.8	16.9	18.3	16.9	16	14.3	13.9	13.7	75	
80	24.4	19.9	17.2	23.6	19.5	17.4	22.2	19.1	17.2	20.4	18.4	16.6	17.8	16.4	15.7	13.9	13.4	13.3	80	
85	23	19.3	16.9	22.7	19	17.1	21.6	18.6	16.9	20	17.9	16.4	17.3	15.9	15.5	13.5	13	12.9	85	
90	21.6	18.7	16.6	21.7	18.5	16.8	21	18.1	16.6	19.6	17.5	16.1	16.8	15.4	15.2	13.1	12.6	12.5	90	
95	20.4	18.2	16.3	20.7	18	16.5	20.4	17.7	16.4	19.1	17.2	15.9	16.2	14.9	14.8	12.7	12.2	12.1	95	
100	19.2	17.7	16.1	19.7	17.6	16.3	19.7	17.3	16.1	18.6	16.8	15.7	15.7	14.5	14.3	12.3	11.9	11.8	100	
105	18.1	17.3	15.9	18.7	17.2	16.1	18.9	16.9	16	18.1	16.5	15.5	15.2	14.1	13.9	11.9	11.5	11.5	105	
110	17.2	16.9	15.7	17.8	16.8	15.9	18.2	16.6	15.8	17.3	16.2	15.4	14.7	13.7	13.5	11.5	11.2	11.2	110	
115	16.3	16.5	15.6	17	16.5	15.8	17.5	16.3	15.6	16.5	15.9	15.3	14.2	13.3	13.2	11.2	10.9	10.9	115	
120	15.5	16.2	15.5	16.2	16.1	15.7	16.7	16	15.5	15.8	15.5	15.1	13.8	12.9	12.8	10.9	10.7	10.6	120	
125	14.7	15.9	15.4	15.5	15.9	15.6	16	15.7	15.4	15	15	15	13.3	12.5	12.5	10.5	10.4	10.4	125	
130	14.1	15.4	15.4	14.8	15.6	15.4	15	15.4	15.3	14.3	14.5	14.6	12.9	12.2	12.1	10	10.1	10.1	130	
135	13.4	15		14.1	15.1	15.1	14.1	14.5	14.9	13.6	13.9	14.1	12.4	11.9	11.9	9.6	9.8	9.9	135	
140	12.7	14.5		13.6	14.4	14.7	13.4	13.5	13.9	12.6	13.1	13.4	11.9	11.5	11.6	9.2	9.4	9.6	140	
145	12.3	13.9		12.8	13.3		12.7	13	13	11.7	12.3	12.7	11.3	11.2	11.3	8.8	9	9.2	145	
150	11.9	13		12	12.3		11.8	12.2	12.5	11	11.4	11.8	10.9	10.9	11.1	8.4	8.6	8.8	150	
155	11.5			11.2	11.5		11	11.4	11.7	10.6	10.7	11	10.2	10.6	10.8	8	8.2	8.4	155	
160	8.6			10.6	10.8		10.3	10.7		10.3	10.4	10.4	9.6	10.1	10.4	7.6	7.9	8	160	
165				10.3	10.3		9.7	9.9		9.8	10	10.1	8.9	9.5	9.7	7.3	7.5	7.7	165	
170				9.8			9.1	9.3		9.1	9.5		8.3	8.8	9	6.9	7.1	7.3	170	
175				4.8			8.6	8.7		8.6	8.9		7.7	8.2	8.4	6.6	6.8	6.9	175	
180							8.3	8.4		8	8.3		7.1	7.6		6.3	6.5	6.6	180	
185							8.1			7.5	7.7		6.6	7		6	6.2	6.3	185	
190										7	7.2		6.1	6.5		5.7	5.9		190	
195										6.6	6.7		5.7	6		5.4	5.6		195	
200										6.2			5.2	5.5		4.6	5.3		200	
205													4.8	5.1		3.5	4.4		205	
210													4.5	4.7		2.2	3.1		210	
215													3.5					215		

t_253_003_50265_00_000

Lifting capacities

Forces de levage



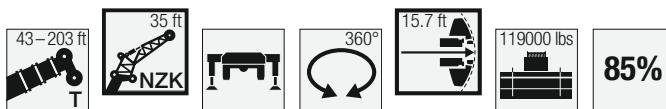
TNZK

Jib	43 ft			57 ft			72 ft			87 ft			102 ft			116 ft			Jib	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	40.3	34.7		40.3			40.3			40.3			40.3						17	
18	40	33.8		40.3			40.3			40.3			40.3			40.3			18	
19	39.3	33		40.3	34.9		40.3			40.3			40.3			40.3			19	
20	38.4	32.2		40.3	34.2		40.3			40.3			40.3			40.3			20	
22	36.7	30.7		40.1	32.8		40.3	34.5		40.3			40.3			40.3			22	
24	35	29.3		39	31.5		40.3	33.3		40.3	34.7		40.3			40.3			24	
26	33.4	28.1	24	37.6	30.3		40.2	32.1		40.3	33.7		40.3			40.3			26	
28	31.8	27	23.3	36.1	29.2	23.9	39.5	31.1		40.3	32.6		40.3	33.2		40.3			28	
30	30.3	25.9	22.5	34.7	28.2	23.3	38.2	30.1	23.8	40.3	31.6		40.3	32.3		39.9	31.2		30	
32	29	25	21.9	33.3	27.2	22.7	37	29.1	23.2	39.8	30.7	23.5	40.3	31.5		39.4	30.5		32	
34	27.8	24.1	21.3	32.1	26.3	22.1	35.7	28.2	22.7	38.7	29.9	23.1	40.3	30.6		38.7	29.8		34	
36	26.6	23.2	20.7	30.8	25.5	21.6	34.5	27.4	22.2	37.6	29	22.6	39.8	29.9	22.8	38.1	29.1		36	
38	25.5	22.5	20.1	29.5	24.7	21.1	33.3	26.6	21.7	36.5	28.3	22.2	39	29.1	22.4	37.4	28.5	22	38	
40	24.6	21.7	19.6	28.5	24	20.6	32.2	25.9	21.3	35.4	27.6	21.8	38.1	28.4	22	36.7	27.9	21.7	40	
45	21.9	20.1	18.5	26.1	22.3	19.6	29.5	24.2	20.3	32.9	25.8	20.8	35.7	26.8	21.1	35	26.4	20.9	45	
50	19	18.8	17.6	24	20.9	18.7	27.3	22.8	19.4	30.4	24.4	20	33.3	25.4	20.3	33.1	25.2	20.2	50	
55	16.7	17.7	16.9	21.5	19.7	17.9	25.4	21.5	18.7	28.3	23.1	19.3	31.1	24.1	19.7	31.5	24	19.5	55	
60	14.8	16.8	16.5	19	18.6	17.3	23.2	20.3	18	26.5	21.9	18.6	29.1	22.9	19	30	23	19	60	
65	13.2	15.9	16.3	17.1	17.7	16.7	21	19.3	17.4	24.7	20.9	18	27.4	21.9	18.4	28.5	22	18.4	65	
70	12	15.3		15.4	16.9	16.4	19	18.5	16.9	22.4	20	17.5	25.5	21	17.9	26.7	21.1	18	70	
75				14	16.3	16.2	17.3	17.7	16.5	20.5	19.1	17	23.5	20.1	17.4	24.8	20.4	17.5	75	
80				12.8	15.6		15.8	17.1	16.2	18.8	18.4	16.7	21.6	19.4	17	23.1	19.7	17.1	80	
85				11.8			14.6	16.5	16.1	17.3	17.7	16.3	20	18.7	16.7	21.6	19	16.8	85	
90							13.4	15.9		16	17.2	16.1	18.5	18.1	16.4	20.1	18.4	16.5	90	
95							12.4	15.4		14.9	16.7	16	17.2	17.5	16.1	18.8	17.9	16.2	95	
100							11.7			13.9	16.2		16.1	17	16	17.7	17.4	16	100	
105										13	15.7		15.1	16.6	15.9	16.6	16.9	15.8	105	
110										12.2	15.3		14.2	16.1		15.7	16.6	15.7	110	
115										11.6			13.4	15.7		14.9	16.2	15.6	115	
120													12.6	15.4		14.1	15.8	15.6	120	
125													12.1	15.1		13.4	15.4		125	
130													11.5			12.8	15.2		130	
135																12.2	14.4		135	
140																11.8	14.1		140	
145																11.4			145	

t_253_003_50001_00_000

Lifting capacities

Forces de levage



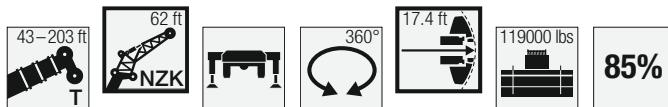
TNZK

Jib length	131 ft			146 ft			161 ft			176 ft			191 ft			203 ft			Jib length	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
22	39.2																		22	
24	38.8																		24	
26	38.3			33															26	
28	37.9			32.7															28	
30	37.5			32.4			28.4												30	
32	37.1			32.1			28.2			24.2									32	
34	36.6	29.3		31.8			27.9			24.1									34	
36	36.1	28.7		31.5			27.7			24				20.1					36	
38	35.4	28.2		31.2	26.5		27.5			23.9				20.1			15.9		38	
40	34.8	27.6		30.8	26.1		27.3			23.7				20			15.9		40	
45	33.3	26.3	20.8	29.8	25		26.7	23.7		23.4				19.9			15.8		45	
50	31.9	25.1	20.2	28.8	24	20	26	22.9	19.7	23.1	21.5			19.7	18.7		15.8		50	
55	30.6	24.1	19.5	27.8	23.1	19.5	25.4	22.2	19.2	22.7	20.9	18.3	19.5	18.4		15.7	15.8		55	
60	29.3	23.1	19	26.9	22.3	19	24.7	21.5	18.7	22.2	20.3	18	19.3	18.2	16.8	15.7	15.3		60	
65	28	22.2	18.5	26.1	21.5	18.6	24	20.8	18.3	21.7	19.8	17.6	19	17.8	16.5	15.2	14.8	14.6	65	
70	26.9	21.4	18	25.2	20.8	18.1	23.4	20.2	17.9	21.3	19.3	17.2	18.7	17.4	16.2	14.8	14.3	14.2	70	
75	25.7	20.6	17.6	24.4	20.2	17.7	22.8	19.6	17.5	20.9	18.8	16.9	18.3	16.9	16	14.3	13.9	13.7	75	
80	24.4	19.9	17.2	23.6	19.5	17.4	22.2	19.1	17.2	20.4	18.4	16.6	17.8	16.4	15.7	13.9	13.4	13.3	80	
85	23	19.3	16.9	22.7	19	17.1	21.6	18.6	16.9	20	17.9	16.4	17.3	15.9	15.5	13.5	13	12.9	85	
90	21.6	18.7	16.6	21.7	18.5	16.8	21	18.1	16.6	19.6	17.5	16.1	16.8	15.4	15.2	13.1	12.6	12.5	90	
95	20.4	18.2	16.3	20.7	18	16.5	20.4	17.7	16.4	19.1	17.2	15.9	16.2	14.9	14.8	12.7	12.2	12.1	95	
100	19.2	17.7	16.1	19.7	17.6	16.3	19.7	17.3	16.1	18.6	16.8	15.7	15.7	14.5	14.3	12.3	11.9	11.8	100	
105	18.1	17.3	15.9	18.7	17.2	16.1	18.9	16.9	16	18.1	16.5	15.5	15.2	14.1	13.9	11.9	11.5	11.5	105	
110	17.2	16.9	15.7	17.8	16.8	15.9	18.2	16.6	15.8	17.3	16.2	15.4	14.7	13.7	13.5	11.5	11.2	11.2	110	
115	16.3	16.5	15.6	17	16.5	15.8	17.4	16.3	15.6	16.5	15.9	15.3	14.2	13.3	13.2	11.2	10.9	10.9	115	
120	15.5	16.2	15.5	16.2	16.1	15.7	16.5	16	15.5	15.8	15.5	15.1	13.8	12.9	12.8	10.9	10.7	10.6	120	
125	14.7	15.7	15.4	15.3	15.7	15.6	15.3	15.6	15.4	14.9	15	15	13.3	12.5	12.5	10.5	10.4	10.4	125	
130	13.8	15.3	15.3	14.7	15.4	15.4	14.7	14.7	15	13.7	14.4	14.6	12.9	12.2	12.1	10	10.1	10.1	130	
135	13.3	14.7		13.8	14.4	14.9	13.7	14.1	14.2	12.6	13.3	13.9	12.4	11.9	11.9	9.6	9.8	9.9	135	
140	12.7	14.1		12.8	13.3	13.7	12.6	13.2	13.6	11.9	12.3	12.8	11.8	11.5	11.6	9.2	9.4	9.6	140	
145	12.2	13.1		12	12.3		11.7	12.2	12.6	11.5	11.5	11.9	11	11.2	11.3	8.8	9	9.2	145	
150	11.8	12.6		11.5	11.6		10.9	11.4	11.7	11	11.1	11.1	10.2	10.8	11.1	8.4	8.6	8.8	150	
155	11.5			10.9	11.1		10.2	10.6	10.9	10.3	10.7	10.8	9.4	10.1	10.4	8	8.2	8.4	155	
160	8.6			10.2	10.5		9.6	9.8		9.6	10	10.4	8.8	9.4	9.7	7.6	7.9	8	160	
165				9.9	9.9		9.2	9.4		9	9.3	9.7	8.1	8.7	9	7.3	7.5	7.7	165	
170				9.6			8.9	9		8.4	8.7		7.5	8.1	8.3	6.9	7.1	7.3	170	
175				4.8			8.5	8.7		7.8	8.1		6.9	7.5	7.6	6.6	6.8	6.9	175	
180							8	8.1		7.3	7.5		6.4	6.9		6.3	6.5	6.6	180	
185							7.5			6.8	7		5.9	6.3		5.9	6.2	6.3	185	
190										6.4	6.5		5.4	5.8		5.4	5.8		190	
195										5.9	6		5	5.4		5	5.3		195	
200										5.5			4.6	4.9		4.1	4.8		200	
205													4.2	4.5		3	3.9		205	
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215													3						215	

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Lifting capacities

Forces de levage



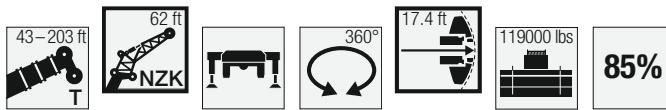
TNZK

Lift Weight (T)	43 ft			57 ft			72 ft			87 ft			102 ft			116 ft			Lift Weight (T)	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	16.3			16.4			16.4			16.5									17	
18	16.2			16.3			16.4			16.5									18	
19	16.2			16.3			16.4			16.4			16.5						19	
20	16.1			16.3			16.3			16.4			16.5						20	
22	15.9			16.2			16.3			16.4			16.4			16.1			22	
24	15.7			16			16.3			16.3			16.4			16			24	
26	15.5			15.9			16.2			16.3			16.3			15.8			26	
28	15.1			15.7			16			16.2			16.3			15.7			28	
30	14.8			15.5			15.9			16.1			16.2			15.6			30	
32	14.4	12.3		15.3			15.7			16			16.1			15.4			32	
34	14	12		14.9	12.3		15.5			15.9			15.9			15.3			34	
36	13.6	11.7		14.6	12		15.3	12.2		15.7			15.7			15.1			36	
38	13.2	11.4		14.3	11.7		15.1	12		15.4	12.2		15.5			14.9			38	
40	12.9	11.1		13.9	11.5		14.8	11.7		15.2	11.9		15.2			14.8			40	
45	12	10.5		13.1	10.9		14	11.2		14.5	11.4		14.7	11.5		14.3	11.4		45	
50	11.3	9.9	8.6	12.3	10.4	8.8	13.3	10.7		13.9	10.9		14.1	11.1		13.8	11		50	
55	10.6	9.5	8.3	11.7	9.9	8.5	12.6	10.2	8.6	13.2	10.5	8.7	13.5	10.7		13.3	10.7		55	
60	9.8	9	8.1	11.1	9.5	8.3	11.9	9.8	8.4	12.6	10.1	8.4	12.9	10.3	8.5	12.8	10.3	8.5	60	
65	9	8.6	7.9	10.4	9.1	8.1	11.4	9.4	8.2	12	9.7	8.3	12.4	10	8.3	12.3	10	8.3	65	
70	8.3	8.3	7.7	9.6	8.8	7.9	10.7	9.1	8	11.5	9.4	8.1	11.9	9.6	8.2	11.9	9.7	8.2	70	
75	7.6	8	7.5	8.9	8.5	7.7	10.1	8.8	7.8	10.9	9.1	7.9	11.4	9.4	8	11.5	9.4	8	75	
80	7.1	7.8	7.5	8.3	8.2	7.6	9.5	8.5	7.7	10.4	8.8	7.8	11	9.1	7.9	11.1	9.2	7.9	80	
85	6.6	7.6	7.5	7.7	8	7.5	8.8	8.3	7.6	9.8	8.6	7.7	10.6	8.8	7.8	10.8	8.9	7.8	85	
90	6.2	7.5	7.5	7.2	7.8	7.5	8.3	8.1	7.5	9.3	8.4	7.6	10.1	8.6	7.7	10.4	8.7	7.7	90	
95	5.8	7.5		6.8	7.6	7.4	7.8	7.9	7.4	8.7	8.2	7.5	9.5	8.4	7.6	10	8.5	7.6	95	
100				6.4	7.5	7.4	7.3	7.7	7.4	8.2	8	7.4	9	8.2	7.5	9.6	8.4	7.5	100	
105				6	7.4		6.9	7.6	7.4	7.8	7.8	7.4	8.6	8.1	7.4	9.1	8.2	7.5	105	
110				5.7	7.4		6.6	7.5	7.4	7.4	7.7	7.4	8.1	7.9	7.4	8.7	8	7.4	110	
115							6.2	7.4	7.4	7	7.6	7.4	7.7	7.8	7.4	8.3	7.9	7.4	115	
120							5.9	7.4		6.7	7.5	7.4	7.4	7.7	7.4	7.9	7.8	7.4	120	
125							5.7	7.4		6.4	7.4	7.4	7	7.5	7.4	7.6	7.7	7.3	125	
130										6.1	7.4		6.7	7.5	7.4	7.3	7.6	7.3	130	
135										5.9	7.4		6.5	7.4	7.4	7	7.5	7.3	135	
140										5.6	7.4		6.2	7.4	7.4	6.7	7.4	7.3	140	
145													6	7.4		6.5	7.3	7.3	145	
150													5.8	7.4		6.2	7.3	7.3	150	
155													5.6	7.4		6	7.3		155	
160																5.8	7.3		160	
165																5.7	7.3		165	
170																5.5			170	

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Lifting capacities

Forces de levage



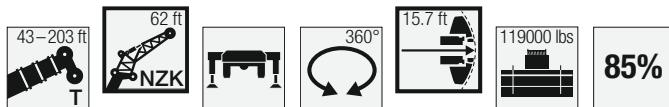
TNZK

Lift capacity	131 ft			146 ft			161 ft			176 ft			191 ft			203 ft			Lift capacity	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
26	15.4																		26	
28	15.2			14.1															28	
30	15.1			14															30	
32	15			13.9			13												32	
34	14.9			13.8			12.9												34	
36	14.7			13.7			12.8			11.8									36	
38	14.6			13.6			12.7			11.8									38	
40	14.4			13.5			12.7			11.7			10.6						40	
45	14			13.3			12.5			11.6			10.5			9.5			45	
50	13.6	11		12.9			12.3			11.5			10.4			9.4			50	
55	13.2	10.7		12.6	10.5		12	10.2		11.3			10.3			9.4			55	
60	12.7	10.4		12.2	10.2		11.7	10		11.1	9.7		10.2			9.3			60	
65	12.3	10.1	8.3	11.9	9.9		11.4	9.7		10.9	9.5		10	9.1		9.2			65	
70	11.9	9.8	8.2	11.5	9.7	8.1	11.2	9.5		10.7	9.3		9.9	8.9		9.1	8.5		70	
75	11.5	9.5	8.1	11.2	9.4	8	10.9	9.3	8	10.5	9.1	7.9	9.7	8.8		9	8.4		75	
80	11.2	9.3	7.9	10.9	9.2	7.9	10.7	9.1	7.9	10.3	8.9	7.8	9.6	8.6		8.9	8.2		80	
85	10.8	9.1	7.8	10.6	9	7.8	10.4	8.9	7.8	10.1	8.8	7.7	9.5	8.5	7.6	8.7	8.1		85	
90	10.5	8.8	7.7	10.4	8.8	7.7	10.2	8.8	7.7	9.9	8.6	7.6	9.3	8.4	7.5	8.6	8	7.3	90	
95	10.2	8.7	7.6	10.1	8.7	7.6	10	8.6	7.6	9.7	8.5	7.5	9.2	8.2	7.4	8.5	7.9	7.3	95	
100	10	8.5	7.6	9.9	8.5	7.5	9.7	8.4	7.5	9.5	8.3	7.5	9	8.1	7.4	8.4	7.8	7.2	100	
105	9.6	8.3	7.5	9.6	8.3	7.5	9.5	8.3	7.5	9.3	8.2	7.4	8.9	8	7.3	8.3	7.7	7.2	105	
110	9.2	8.2	7.4	9.4	8.2	7.4	9.3	8.2	7.4	9.1	8.1	7.4	8.7	7.9	7.3	8.2	7.6	7.1	110	
115	8.8	8	7.4	9.1	8	7.4	9.1	8	7.4	8.9	8	7.3	8.6	7.8	7.2	8.1	7.6	7.1	115	
120	8.4	7.9	7.3	8.8	7.9	7.3	8.9	7.9	7.3	8.7	7.9	7.3	8.5	7.7	7.2	8	7.5	7.1	120	
125	8.1	7.8	7.3	8.4	7.8	7.3	8.6	7.8	7.3	8.6	7.8	7.2	8.4	7.6	7.2	7.9	7.4	7	125	
130	7.8	7.7	7.3	8.1	7.7	7.3	8.4	7.7	7.3	8.4	7.7	7.2	8.2	7.5	7.1	7.8	7.4	7	130	
135	7.5	7.6	7.3	7.8	7.6	7.3	8.1	7.6	7.2	8.2	7.6	7.2	8	7.5	7.1	7.8	7.3	7	135	
140	7.2	7.5	7.3	7.5	7.5	7.3	7.8	7.6	7.2	8	7.5	7.2	7.8	7.4	7.1	7.6	7.2	7	140	
145	6.9	7.4	7.3	7.3	7.4	7.3	7.5	7.5	7.2	7.7	7.5	7.1	7.7	7.3	7.1	7.5	7.2	7	145	
150	6.7	7.4	7.3	7	7.4	7.3	7.3	7.4	7.2	7.5	7.4	7.1	7.5	7.3	7.1	7.4	7.1	7	150	
155	6.5	7.3	7.3	6.8	7.3	7.3	7.1	7.4	7.2	7.3	7.3	7.1	7.3	7.2	7.1	7.2	7.1	7	155	
160	6.3	7.3	7.3	6.6	7.3	7.3	6.9	7.3	7.2	7.1	7.3	7.1	7.1	7.2	7.1	7	7	6.9	160	
165	6.1	7.3	7.3	6.4	7.3	7.3	6.7	7.3	7.2	6.9	7.2	7.1	7	7.1	7.1	6.8	6.8	6.9	165	
170	5.9	7.3		6.2	7.3	7.3	6.5	7.2	7.2	6.7	7.2	7.1	6.8	7.1	7.1	6.5	6.7	6.8	170	
175	5.8	7.3		6.1	7.3	7.3	6.3	7.2	7.2	6.5	7.2	7.1	6.6	7.1	7.1	6.3	6.5	6.7	175	
180	5.6	7.3		5.9	7.3		6.2	7.2	7.2	6.4	7.2	7.1	6.5	7.1	7.1	6	6.3	6.5	180	
185	5.5			5.8	7.3		6	7.2	7.2	6.3	7.1	7.1	6.3	7.1	7.1	5.7	6	6.3	185	
190				5.7	7.3		5.9	7.2		6.1	7.1	7.1	6.2	7.1	7.1	5.5	5.8	6.1	190	
195					5.6	7.3		5.8	7.2		6	7.1	7.1	6.1	6.9	7.1	5.2	5.5	5.8	195
200					5.5			5.7	7.1		5.8	7.1	7.1	5.9	6.5	6.8	5	5.3	5.5	200
205							5.6	6.6		5.7	6.8		5.5	6.1	6.3	4.5	5	5.2	205	
210							5.5	6.4		5.6	6.3		5.2	5.6	5.8	3.5	4.7	4.9	210	
215							5.3			5.5	5.9		4.5	5.2		2.3	4.2	4.6	215	
220										5.3	5.5		3.6	4.8			2.9	3.5	220	
225										5	5.1		2.5	3.6				2.2	225	
230										3.4			2.5						230	

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Lifting capacities

Forces de levage



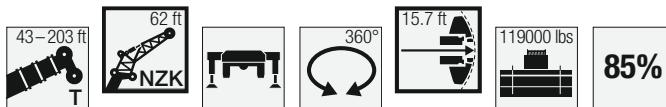
TNZK

Lift Weight	43 ft			57 ft			72 ft			87 ft			102 ft			116 ft			Lift Weight	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	16.3			16.4			16.4			16.5									17	
18	16.2			16.3			16.4			16.5									18	
19	16.2			16.3			16.4			16.4			16.5						19	
20	16.1			16.3			16.3			16.4			16.5						20	
22	15.9			16.2			16.3			16.4			16.4			16.1			22	
24	15.7			16			16.3			16.3			16.4			16			24	
26	15.5			15.9			16.2			16.3			16.3			15.8			26	
28	15.1			15.7			16			16.2			16.3			15.7			28	
30	14.8			15.5			15.9			16.1			16.2			15.6			30	
32	14.4	12.3		15.3			15.7			16			16.1			15.4			32	
34	14	12		14.9	12.3		15.5			15.9			15.9			15.3			34	
36	13.6	11.7		14.6	12		15.3	12.2		15.7			15.7			15.1			36	
38	13.2	11.4		14.3	11.7		15.1	12		15.4	12.2		15.5			14.9			38	
40	12.9	11.1		13.9	11.5		14.8	11.7		15.2	11.9		15.2			14.8			40	
45	12	10.5		13.1	10.9		14	11.2		14.5	11.4		14.7	11.5		14.3	11.4		45	
50	11.3	9.9	8.6	12.3	10.4	8.8	13.3	10.7		13.9	10.9		14.1	11.1		13.8	11		50	
55	10.6	9.5	8.3	11.7	9.9	8.5	12.6	10.2	8.6	13.2	10.5	8.7	13.5	10.7		13.3	10.7		55	
60	9.8	9	8.1	11.1	9.5	8.3	11.9	9.8	8.4	12.6	10.1	8.4	12.9	10.3	8.5	12.8	10.3	8.5	60	
65	9	8.6	7.9	10.4	9.1	8.1	11.4	9.4	8.2	12	9.7	8.3	12.4	10	8.3	12.3	10	8.3	65	
70	8.3	8.3	7.7	9.6	8.8	7.9	10.7	9.1	8	11.5	9.4	8.1	11.9	9.6	8.2	11.9	9.7	8.2	70	
75	7.6	8	7.5	8.9	8.5	7.7	10.1	8.8	7.8	10.9	9.1	7.9	11.4	9.4	8	11.5	9.4	8	75	
80	7.1	7.8	7.5	8.3	8.2	7.6	9.5	8.5	7.7	10.4	8.8	7.8	11	9.1	7.9	11.1	9.2	7.9	80	
85	6.6	7.6	7.5	7.7	8	7.5	8.8	8.3	7.6	9.8	8.6	7.7	10.6	8.8	7.8	10.8	8.9	7.8	85	
90	6.2	7.5	7.5	7.2	7.8	7.5	8.3	8.1	7.5	9.3	8.4	7.6	10.1	8.6	7.7	10.4	8.7	7.7	90	
95	5.8	7.5		6.8	7.6	7.4	7.8	7.9	7.4	8.7	8.2	7.5	9.5	8.4	7.6	10	8.5	7.6	95	
100				6.4	7.5	7.4	7.3	7.7	7.4	8.2	8	7.4	9	8.2	7.5	9.6	8.4	7.5	100	
105					6	7.4		6.9	7.6	7.4	7.8	7.8	7.4	8.6	8.1	7.4	9.1	8.2	7.5	105
110					5.7	7.4		6.6	7.5	7.4	7.4	7.7	7.4	8.1	7.9	7.4	8.7	8	7.4	110
115								6.2	7.4	7.4	7	7.6	7.4	7.7	7.8	7.4	8.3	7.9	7.4	115
120									5.9	7.4	6.7	7.5	7.4	7.4	7.7	7.4	7.9	7.8	7.4	120
125									5.7	7.4	6.4	7.4	7.4	7	7.5	7.4	7.6	7.7	7.3	125
130											6.1	7.4		6.7	7.5	7.4	7.3	7.6	7.3	130
135											5.9	7.4		6.5	7.4	7.4	7	7.5	7.3	135
140											5.6	7.4		6.2	7.4	7.4	6.7	7.4	7.3	140
145													6	7.4		6.5	7.3	7.3	145	
150													5.8	7.4		6.2	7.3	7.3	150	
155													5.6	7.4		6	7.3		155	
160																5.8	7.3		160	
165																5.7	7.3		165	
170																5.5			170	

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Lifting capacities

Forces de levage



TNZK

Jib	131 ft			146 ft			161 ft			176 ft			191 ft			203 ft			Jib	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
26	15.4																		26	
28	15.2			14.1															28	
30	15.1			14															30	
32	15			13.9			13												32	
34	14.9			13.8			12.9												34	
36	14.7			13.7			12.8			11.8									36	
38	14.6			13.6			12.7			11.8									38	
40	14.4			13.5			12.7			11.7			10.6						40	
45	14			13.3			12.5			11.6			10.5			9.5			45	
50	13.6	11		12.9			12.3			11.5			10.4			9.4			50	
55	13.2	10.7		12.6	10.5		12	10.2		11.3			10.3			9.4			55	
60	12.7	10.4		12.2	10.2		11.7	10		11.1	9.7		10.2			9.3			60	
65	12.3	10.1	8.3	11.9	9.9		11.4	9.7		10.9	9.5		10	9.1		9.2			65	
70	11.9	9.8	8.2	11.5	9.7	8.1	11.2	9.5		10.7	9.3		9.9	8.9		9.1	8.5		70	
75	11.5	9.5	8.1	11.2	9.4	8	10.9	9.3	8	10.5	9.1	7.9	9.7	8.8		9	8.4		75	
80	11.2	9.3	7.9	10.9	9.2	7.9	10.7	9.1	7.9	10.3	8.9	7.8	9.6	8.6		8.9	8.2		80	
85	10.8	9.1	7.8	10.6	9	7.8	10.4	8.9	7.8	10.1	8.8	7.7	9.5	8.5	7.6	8.7	8.1		85	
90	10.5	8.8	7.7	10.4	8.8	7.7	10.2	8.8	7.7	9.9	8.6	7.6	9.3	8.4	7.5	8.6	8	7.3	90	
95	10.2	8.7	7.6	10.1	8.7	7.6	10	8.6	7.6	9.7	8.5	7.5	9.2	8.2	7.4	8.5	7.9	7.3	95	
100	10	8.5	7.6	9.9	8.5	7.5	9.7	8.4	7.5	9.5	8.3	7.5	9	8.1	7.4	8.4	7.8	7.2	100	
105	9.6	8.3	7.5	9.6	8.3	7.5	9.5	8.3	7.5	9.3	8.2	7.4	8.9	8	7.3	8.3	7.7	7.2	105	
110	9.2	8.2	7.4	9.4	8.2	7.4	9.3	8.2	7.4	9.1	8.1	7.4	8.7	7.9	7.3	8.2	7.6	7.1	110	
115	8.8	8	7.4	9.1	8	7.4	9.1	8	7.4	8.9	8	7.3	8.6	7.8	7.2	8.1	7.6	7.1	115	
120	8.4	7.9	7.3	8.8	7.9	7.3	8.9	7.9	7.3	8.7	7.9	7.3	8.5	7.7	7.2	8	7.5	7.1	120	
125	8.1	7.8	7.3	8.4	7.8	7.3	8.6	7.8	7.3	8.6	7.8	7.2	8.4	7.6	7.2	7.9	7.4	7	125	
130	7.8	7.7	7.3	8.1	7.7	7.3	8.4	7.7	7.3	8.4	7.7	7.2	8.2	7.5	7.1	7.8	7.4	7	130	
135	7.5	7.6	7.3	7.8	7.6	7.3	8.1	7.6	7.2	8.2	7.6	7.2	8	7.5	7.1	7.8	7.3	7	135	
140	7.2	7.5	7.3	7.5	7.5	7.3	7.8	7.6	7.2	8	7.5	7.2	7.8	7.4	7.1	7.6	7.2	7	140	
145	6.9	7.4	7.3	7.3	7.4	7.3	7.5	7.5	7.2	7.7	7.5	7.1	7.7	7.3	7.1	7.5	7.2	7	145	
150	6.7	7.4	7.3	7	7.4	7.3	7.3	7.4	7.2	7.5	7.4	7.1	7.5	7.3	7.1	7.4	7.1	7	150	
155	6.5	7.3	7.3	6.8	7.3	7.3	7.1	7.4	7.2	7.3	7.3	7.1	7.3	7.2	7.1	7.2	7.1	7	155	
160	6.3	7.3	7.3	6.6	7.3	7.3	6.9	7.3	7.2	7.1	7.3	7.1	7.1	7.2	7.1	7	7	6.9	160	
165	6.1	7.3	7.3	6.4	7.3	7.3	6.7	7.3	7.2	6.9	7.2	7.1	7	7.1	7.1	6.8	6.8	6.9	165	
170	5.9	7.3		6.2	7.3	7.3	6.5	7.2	7.2	6.7	7.2	7.1	6.8	7.1	7.1	6.5	6.7	6.8	170	
175	5.8	7.3		6.1	7.3	7.3	6.3	7.2	7.2	6.5	7.2	7.1	6.6	7.1	7.1	6.3	6.5	6.7	175	
180	5.6	7.3		5.9	7.3		6.2	7.2	7.2	6.4	7.2	7.1	6.5	7.1	7.1	6	6.3	6.5	180	
185	5.5			5.8	7.3		6	7.2	7.2	6.3	7.1	7.1	6.3	7.1	7.1	5.7	6	6.3	185	
190				5.7	7.3		5.9	7.2		6.1	7.1	7.1	6.1	6.8	7	5.5	5.8	6.1	190	
195				5.6	7.3		5.8	7.1		5.9	7	7.1	5.8	6.3	6.7	5.2	5.5	5.8	195	
200					5.5		5.7	6.8		5.8	6.6	6.8	5.3	5.9	6.2	4.9	5.3	5.5	200	
205							5.6	6.6		5.7	6.2		4.9	5.4	5.7	4.2	5	5.2	205	
210							5.5	6.2		5.4	5.7		4.5	5	5.2	3	4.6	4.9	210	
215							5.3			5	5.3		4	4.6			3.7	4.3	215	
220										4.7	4.9		3.1	4.2			2.4	3.1	220	
225										4.4	4.5		2.1	3.2					225	
230										3.4			2						230	

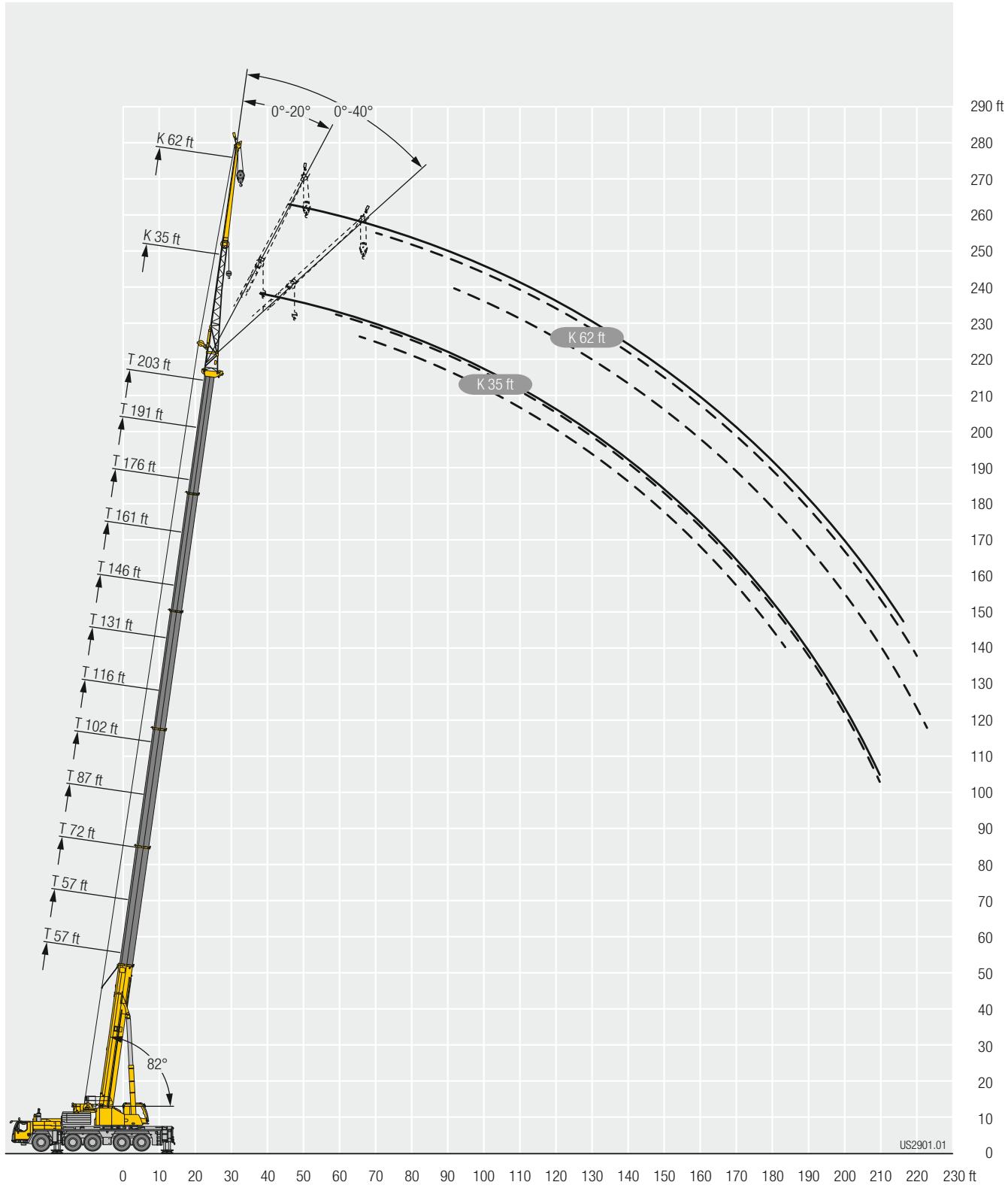
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Lifting heights

Hauteurs de levage



TNZK



Lifting capacities

Forces de levage



Lift capacity	43 ft + 23 ft			57 ft + 23 ft			72 ft + 23 ft			87 ft + 23 ft			102 ft + 23 ft			116 ft + 23 ft			Lift capacity	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	19.2			19.7			20.2			20.2									17	
18	19.3			19.8			20.1			20.2									18	
19	19.3			19.7			20			20.2			20.2						19	
20	19.2			19.6			20			20.2			20.2						20	
22	18.8	17.2		19.4			19.8			20			20.2						22	
24	18.3	17.1		19.2	17.2		19.6			19.9			20.1			20.2			24	
26	17.7	16.6		18.8	17.2		19.3	17.2		19.7			19.9			20.1			26	
28	17.2	16.1		18.3	16.8		19.1	17.2		19.5	17.2		19.8			20			28	
30	16.7	15.6	14.8	17.9	16.4		18.8	17		19.3	17.2		19.6			19.9			30	
32	16.2	15.1	14.8	17.4	15.9	14.8	18.4	16.6		19.1	17.2		19.4	17.2		19.7			32	
34	15.7	14.7	14.4	16.9	15.5	14.8	18	16.2	14.8	18.8	16.8		19.3	17.2		19.6	17.2		34	
36	15.2	14.2	14	16.5	15.1	14.6	17.6	15.9	14.8	18.5	16.5		19.1	17		19.4	17.2		36	
38	14.7	13.8	13.6	16.1	14.7	14.2	17.1	15.5	14.7	18.1	16.1	14.8	18.8	16.7		19.2	17.1		38	
40	14.1	13.4	13.2	15.6	14.4	13.9	16.7	15.1	14.4	17.7	15.8	14.8	18.5	16.3	14.8	19.1	16.8		40	
45	12.8	12.6	12.4	14.5	13.5	13.1	15.8	14.3	13.7	16.8	15	14.2	17.6	15.6	14.6	18.4	16.1	14.8	45	
50	11.8	11.8	11.7	13.4	12.7	12.4	14.8	13.5	13	15.9	14.2	13.5	16.8	14.9	14	17.6	15.4	14.4	50	
55	10.9	11.1	11.1	12.3	12	11.8	13.8	12.8	12.4	15	13.6	12.9	16	14.2	13.4	16.8	14.8	13.8	55	
60	10.1	10.4	10.6	11.5	11.5	11.3	12.8	12.2	11.8	14.1	12.9	12.4	15.2	13.6	12.8	16.1	14.2	13.3	60	
65	9.4	9.7	10.1	10.7	10.8	10.8	12	11.7	11.4	13.2	12.4	11.9	14.4	13	12.4	15.4	13.6	12.8	65	
70	8.8	9	9.4	10	10.2	10.4	11.2	11.2	11	12.4	11.9	11.5	13.6	12.5	11.9	14.6	13.1	12.4	70	
75	8.2	8.4	8.7	9.4	9.6	9.9	10.6	10.6	10.6	11.7	11.4	11.1	12.8	12	11.6	13.9	12.6	12	75	
80	7.7	7.9	8.1	8.9	9	9.3	10	10	10.3	11	10.9	10.8	12.1	11.6	11.2	13.1	12.1	11.6	80	
85	7.3	7.5	7.6	8.4	8.5	8.7	9.5	9.5	9.7	10.5	10.4	10.5	11.5	11.2	10.9	12.4	11.8	11.3	85	
90	6.9	7.1	7.5	7.9	8.1	8.2	9	9	9.2	10	9.9	10.1	10.9	10.7	10.6	11.9	11.4	11	90	
95				7.5	7.6		8.5	8.6	8.8	9.5	9.5	9.6	10.4	10.3	10.3	11.3	11	10.8	95	
100				7.2	7.3		8.1	8.2	8.3	9	9	9.2	9.9	9.8	9.9	10.8	10.6	10.5	100	
105				6.9	6.9		7.7	7.8		8.6	8.6	8.8	9.5	9.4	9.5	10.4	10.1	10.2	105	
110							7.4	7.5		8.3	8.3	8.4	9.1	9	9.2	9.9	9.8	9.8	110	
115							7.1	7.2		7.9	7.9	8	8.7	8.7	8.8	9.5	9.4	9.5	115	
120							6.9	6.9		7.6	7.6		8.4	8.3	8.5	9.2	9	9.1	120	
125										7.3	7.3		8	8	8.1	8.8	8.7	8.8	125	
130										7	7.1		7.7	7.7		8.5	8.4	8.5	130	
135											6.8		7.5	7.5		8.2	8.1	8.2	135	
140													7.2	7.2		7.9	7.8		140	
145													7	7		7.6			145	
150														6.8		7.4			150	
155																7.1	7.1		155	
160																6.9	7		160	
165																6.8			165	

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Lifting capacities

Forces de levage



85%

TVNZK

Jib angle Branche d'angle	131 ft + 23 ft			146 ft + 23 ft			161 ft + 23 ft			176 ft + 23 ft			191 ft + 23 ft			203 ft + 23 ft				
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
26	20.2																		26	
28	20.1																		28	
30	20.1			20.2															30	
32	19.9			20.1			18.4												32	
34	19.8			20			18.3												34	
36	19.7			19.9			18.3			15.7									36	
38	19.5	17.2		19.7			18.2			15.6									38	
40	19.4	17.2		19.6			18.1			15.6			13						40	
45	18.9	16.6		19.3	17		17.9			15.4			12.9			11.1			45	
50	18.3	15.9	14.7	18.8	16.3	14.8	17.7	16.7		15.2	15.2		12.7			11			50	
55	17.6	15.3	14.2	18.2	15.7	14.5	17.4	16.1	14.7	15.1	14.8		12.6	12.8		10.9			55	
60	16.8	14.7	13.7	17.5	15.2	14	17.1	15.6	14.3	14.9	14.5	13.4	12.5	12.6		10.9	11		60	
65	16.2	14.1	13.2	16.8	14.6	13.5	16.8	15.1	13.9	14.7	14.1	13.1	12.4	12.4	11.9	10.8	10.8		65	
70	15.5	13.6	12.7	16.2	14.1	13.1	16.4	14.6	13.4	14.5	13.7	12.7	12.3	12.2	11.7	10.7	10.7	10.7	70	
75	14.8	13.1	12.3	15.6	13.6	12.7	15.8	14.1	13	14.3	13.2	12.4	12.2	11.9	11.4	10.5	10.5	10.5	75	
80	14.1	12.7	12	15	13.2	12.3	15.3	13.7	12.7	14	12.9	12.1	12.1	11.7	11.2	10.3	10.3	10.3	80	
85	13.5	12.3	11.7	14.4	12.8	12	14.8	13.2	12.3	13.6	12.5	11.8	11.9	11.4	11	10.1	10	10	85	
90	12.8	11.9	11.4	13.7	12.4	11.7	14.3	12.8	12	13.3	12.2	11.5	11.7	11.2	10.8	9.9	9.8	9.8	90	
95	12.2	11.6	11.1	13.1	12	11.4	13.9	12.5	11.8	12.9	11.9	11.3	11.5	11	10.6	9.7	9.5	9.5	95	
100	11.7	11.2	10.9	12.5	11.7	11.2	13.3	12.1	11.5	12.6	11.6	11.1	11.2	10.8	10.5	9.4	9.3	9.3	100	
105	11.1	10.8	10.6	12	11.4	11	12.8	11.8	11.3	12.2	11.3	10.9	10.9	10.6	10.3	9.2	9	9	105	
110	10.7	10.4	10.4	11.5	11	10.7	12.2	11.5	11	11.9	11.1	10.7	10.7	10.4	10.1	8.9	8.8	8.8	110	
115	10.3	10.1	10.1	11	10.7	10.5	11.8	11.2	10.8	11.6	10.8	10.5	10.4	10.1	10	8.7	8.6	8.5	115	
120	9.9	9.7	9.7	10.6	10.3	10.3	11.3	10.9	10.6	11.3	10.6	10.3	10.1	9.9	9.8	8.4	8.3	8.3	120	
125	9.5	9.4	9.4	10.3	10	10	10.9	10.5	10.4	11.1	10.4	10.2	9.9	9.7	9.7	8.2	8.1	8.1	125	
130	9.2	9	9.1	9.9	9.7	9.7	10.6	10.2	10.2	10.9	10.2	10	9.6	9.5	9.5	8	7.9	7.9	130	
135	8.8	8.7	8.8	9.5	9.3	9.4	10.2	9.9	9.9	10.6	10.1	9.9	9.4	9.2	9.3	7.8	7.7	7.7	135	
140	8.6	8.4	8.5	9.2	9	9.1	9.9	9.6	9.6	10.4	9.9	9.7	9.1	9	9	7.6	7.5	7.5	140	
145	8.3	8.2	8.3	8.9	8.7	8.8	9.6	9.3	9.3	10.2	9.7	9.6	8.9	8.8	8.8	7.4	7.3	7.3	145	
150	8	7.9	8	8.6	8.5	8.6	9.3	9	9.1	9.9	9.5	9.5	8.7	8.6	8.6	7.2	7.1	7.1	150	
155	7.7	7.7		8.4	8.2	8.3	9	8.8	8.8	9.6	9.3	9.3	8.5	8.4	8.4	7	6.9	7	155	
160	7.5	7.5		8.1	8	8.1	8.7	8.5	8.6	9.3	9	9.1	8.3	8.2	8.2	6.7	6.7	6.8	160	
165	7.3	7.3		7.9	7.8		8.4	8.3	8.4	9	8.8	8.8	8.1	8	8.1	6.4	6.6	6.6	165	
170	7.1	7.1		7.6	7.6		8.2	8.1	8.1	8.5	8.6	8.6	7.9	7.8	7.9	6.2	6.3	6.4	170	
175	6.9	6.9		7.4	7.4		8	7.9		7.9	8.3	8.4	7.7	7.7	7.7	5.9	6.1	6.2	175	
180	6.8			7.2	7.2		7.7	7.7		7.5	7.7	7.9	7.4	7.5	7.6	5.6	5.8	6	180	
185				7	7		7.5	7.5		7.3	7.3	7.4	6.9	7.3	7.3	5.3	5.5	5.7	185	
190				6.9	6.9		7.2	7.3		7.1	7.2		6.4	6.8	6.9	5	5.2	5.4	190	
195				6.8			6.7	6.9		6.8	6.9		5.9	6.2	6.4	4.5	5	5.1	195	
200				6.3			6.5			6.3	6.5		5.5	5.8		3.2	4.4	4.6	200	
205							6.1			5.9	6.1		4.2	5.2			3.2	3.7	205	
210							5.9			5.5	5.7		3.1	3.9					210	
215										5.1	5.3		1.8	2.7					215	
220										4.1									220	
225										3.2									225	

t_253_003_50337_00_000

Lifting capacities

Forces de levage



Lift height (ft)	43 ft + 23 ft			57 ft + 23 ft			72 ft + 23 ft			87 ft + 23 ft			102 ft + 23 ft			116 ft + 23 ft			Lift height (ft)	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	19.2			19.7			20.2			20.2									17	
18	19.3			19.8			20.1			20.2									18	
19	19.3			19.7			20			20.2			20.2						19	
20	19.2			19.6			20			20.2			20.2						20	
22	18.8	17.2		19.4			19.8			20			20.2						22	
24	18.3	17.1		19.2	17.2		19.6			19.9			20.1			20.2			24	
26	17.7	16.6		18.8	17.2		19.3	17.2		19.7			19.9			20.1			26	
28	17.2	16.1		18.3	16.8		19.1	17.2		19.5	17.2		19.8			20			28	
30	16.7	15.6	14.8	17.9	16.4		18.8	17		19.3	17.2		19.6			19.9			30	
32	16.2	15.1	14.8	17.4	15.9	14.8	18.4	16.6		19.1	17.2		19.4	17.2		19.7			32	
34	15.7	14.7	14.4	16.9	15.5	14.8	18	16.2	14.8	18.8	16.8		19.3	17.2		19.6	17.2		34	
36	15.2	14.2	14	16.5	15.1	14.6	17.6	15.9	14.8	18.5	16.5		19.1	17		19.4	17.2		36	
38	14.7	13.8	13.6	16.1	14.7	14.2	17.1	15.5	14.7	18.1	16.1	14.8	18.8	16.7		19.2	17.1		38	
40	14.1	13.4	13.2	15.6	14.4	13.9	16.7	15.1	14.4	17.7	15.8	14.8	18.5	16.3	14.8	19.1	16.8		40	
45	12.8	12.6	12.4	14.5	13.5	13.1	15.8	14.3	13.7	16.8	15	14.2	17.6	15.6	14.6	18.4	16.1	14.8	45	
50	11.8	11.8	11.7	13.4	12.7	12.4	14.8	13.5	13	15.9	14.2	13.5	16.8	14.9	14	17.6	15.4	14.4	50	
55	10.9	11.1	11.1	12.3	12	11.8	13.8	12.8	12.4	15	13.6	12.9	16	14.2	13.4	16.8	14.8	13.8	55	
60	10.1	10.4	10.6	11.5	11.5	11.3	12.8	12.2	11.8	14.1	12.9	12.4	15.2	13.6	12.8	16.1	14.2	13.3	60	
65	9.4	9.7	10.1	10.7	10.8	10.8	12	11.7	11.4	13.2	12.4	11.9	14.4	13	12.4	15.4	13.6	12.8	65	
70	8.8	9	9.4	10	10.2	10.4	11.2	11.2	11	12.4	11.9	11.5	13.6	12.5	11.9	14.6	13.1	12.4	70	
75	8.2	8.4	8.7	9.4	9.6	9.9	10.6	10.6	10.6	11.7	11.4	11.1	12.8	12	11.6	13.9	12.6	12	75	
80	7.7	7.9	8.1	8.9	9	9.3	10	10	10.3	11	10.9	10.8	12.1	11.6	11.2	13.1	12.1	11.6	80	
85	7.3	7.5	7.6	8.4	8.5	8.7	9.5	9.5	9.7	10.5	10.4	10.5	11.5	11.2	10.9	12.4	11.8	11.3	85	
90	6.9	7.1	7.5	7.9	8.1	8.2	9	9	9.2	10	9.9	10.1	10.9	10.7	10.6	11.9	11.4	11	90	
95				7.5	7.6		8.5	8.6	8.8	9.5	9.5	9.6	10.4	10.3	10.3	11.3	11	10.8	95	
100				7.2	7.3		8.1	8.2	8.3	9	9	9.2	9.9	9.8	9.9	10.8	10.6	10.5	100	
105				6.9	6.9		7.7	7.8		8.6	8.6	8.8	9.5	9.4	9.5	10.4	10.1	10.2	105	
110							7.4	7.5		8.3	8.3	8.4	9.1	9	9.2	9.9	9.8	9.8	110	
115							7.1	7.2		7.9	7.9	8	8.7	8.7	8.8	9.5	9.4	9.5	115	
120							6.9	6.9		7.6	7.6		8.4	8.3	8.5	9.2	9	9.1	120	
125										7.3	7.3		8	8	8.1	8.8	8.7	8.8	125	
130										7	7.1		7.7	7.7		8.5	8.4	8.5	130	
135											6.8		7.5	7.5		8.2	8.1	8.2	135	
140													7.2	7.2		7.9	7.8		140	
145													7	7		7.6	7.6		145	
150														6.8		7.4	7.4		150	
155																7.1	7.1		155	
160																6.9	7		160	
165																6.8			165	

t_253_003_50067_00_000

Lifting capacities

Forces de levage



	131 ft + 23 ft			146 ft + 23 ft			161 ft + 23 ft			176 ft + 23 ft			191 ft + 23 ft			203 ft + 23 ft						
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
26	20.2																					26
28	20.1																					28
30	20.1			20.2																		30
32	19.9			20.1			18.4															32
34	19.8			20			18.3															34
36	19.7			19.9			18.3			15.7												36
38	19.5	17.2		19.7			18.2			15.6												38
40	19.4	17.2		19.6			18.1			15.6				13								40
45	18.9	16.6		19.3	17		17.9			15.4				12.9				11.1				45
50	18.3	15.9	14.7	18.8	16.3	14.8	17.7	16.7		15.2	15.2			12.7				11				50
55	17.6	15.3	14.2	18.2	15.7	14.5	17.4	16.1	14.7	15.1	14.8			12.6	12.8			10.9				55
60	16.8	14.7	13.7	17.5	15.2	14	17.1	15.6	14.3	14.9	14.5	13.4		12.5	12.6			10.9	11			60
65	16.2	14.1	13.2	16.8	14.6	13.5	16.8	15.1	13.9	14.7	14.1	13.1		12.4	12.4	11.9	10.8	10.8				65
70	15.5	13.6	12.7	16.2	14.1	13.1	16.4	14.6	13.4	14.5	13.7	12.7		12.3	12.2	11.7	10.7	10.7	10.7			70
75	14.8	13.1	12.3	15.6	13.6	12.7	15.8	14.1	13	14.3	13.2	12.4		12.2	11.9	11.4	10.5	10.5	10.5			75
80	14.1	12.7	12	15	13.2	12.3	15.3	13.7	12.7	14	12.9	12.1		12.1	11.7	11.2	10.3	10.3	10.3			80
85	13.5	12.3	11.7	14.4	12.8	12	14.8	13.2	12.3	13.6	12.5	11.8		11.9	11.4	11	10.1	10	10			85
90	12.8	11.9	11.4	13.7	12.4	11.7	14.3	12.8	12	13.3	12.2	11.5		11.7	11.2	10.8	9.9	9.8	9.8			90
95	12.2	11.6	11.1	13.1	12	11.4	13.9	12.5	11.8	12.9	11.9	11.3		11.5	11	10.6	9.7	9.5	9.5			95
100	11.7	11.2	10.9	12.5	11.7	11.2	13.3	12.1	11.5	12.6	11.6	11.1		11.2	10.8	10.5	9.4	9.3	9.3			100
105	11.1	10.8	10.6	12	11.4	11	12.8	11.8	11.3	12.2	11.3	10.9		10.9	10.6	10.3	9.2	9	9			105
110	10.7	10.4	10.4	11.5	11	10.7	12.2	11.5	11	11.9	11.1	10.7		10.7	10.4	10.1	8.9	8.8	8.8			110
115	10.3	10.1	10.1	11	10.7	10.5	11.8	11.2	10.8	11.6	10.8	10.5		10.4	10.1	10	8.7	8.6	8.5			115
120	9.9	9.7	9.7	10.6	10.3	10.3	11.3	10.9	10.6	11.3	10.6	10.3		10.1	9.9	9.8	8.4	8.3	8.3			120
125	9.5	9.4	9.4	10.3	10	10	10.9	10.5	10.4	11.1	10.4	10.2		9.9	9.7	9.7	8.2	8.1	8.1			125
130	9.2	9	9.1	9.9	9.7	9.7	10.6	10.2	10.2	10.9	10.2	10		9.6	9.5	9.5	8	7.9	7.9			130
135	8.8	8.7	8.8	9.5	9.3	9.4	10.2	9.9	9.9	10.6	10.1	9.9		9.4	9.2	9.3	7.8	7.7	7.7			135
140	8.6	8.4	8.5	9.2	9	9.1	9.9	9.6	9.6	10.4	9.9	9.7		9.1	9	9	7.6	7.5	7.5			140
145	8.3	8.2	8.3	8.9	8.7	8.8	9.6	9.3	9.3	10.2	9.7	9.6		8.9	8.8	8.8	7.4	7.3	7.3			145
150	8	7.9	8	8.6	8.5	8.6	9.3	9	9.1	9.9	9.5	9.5		8.7	8.6	8.6	7.2	7.1	7.1			150
155	7.7	7.7		8.4	8.2	8.3	9	8.8	8.8	9.6	9.3	9.3		8.5	8.4	8.4	7	6.9	7			155
160	7.5	7.5		8.1	8	8.1	8.7	8.5	8.6	9	9	9.1		8.3	8.2	8.2	6.7	6.7	6.8			160
165	7.3	7.3		7.9	7.8		8.4	8.3	8.4	8.3	8.7	8.8		8.1	8	8.1	6.4	6.6	6.6			165
170	7.1	7.1		7.6	7.6		8.2	8.1	8.1	7.9	8.2	8.4		7.7	7.8	7.9	6.2	6.3	6.4			170
175	6.9	6.9		7.4	7.4		8	7.9		7.7	7.7	7.8		7.3	7.6	7.7	5.9	6.1	6.2			175
180	6.8			7.2	7.2		7.5	7.7		7.5	7.5	7.6		6.7	7.1	7.3	5.6	5.8	6			180
185				7	7		7	7.3		7	7.3	7.4		6.2	6.6	6.8	5.3	5.5	5.7			185
190				6.9	6.9		6.8	6.8		6.6	6.8			5.7	6.1	6.2	4.9	5.2	5.4			190
195				6.8			6.5	6.6		6.1	6.4			5.3	5.6	5.7	4	4.9	5.1			195
200				6.3	6.4		5.7	5.9		4.8	5.1			2.7	3.9	4.4						200
205				6			5.3	5.5		3.7	4.7						2.7	3.2				205
210				5.6			4.9	5.1		2.5	3.5											210
215							4.5	4.7			2.1											215
220							3.7														220	
225							2.7														225	

t_253_003_50067_00_000

Lifting capacities

Forces de levage



TVNZK

Lift Capacity	43 ft + 23 ft			57 ft + 23 ft			72 ft + 23 ft			87 ft + 23 ft			102 ft + 23 ft			116 ft + 23 ft			Lift Capacity	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	11			11															17	
18	11			11			11												18	
19	10.9			11			11												19	
20	10.9			11			11			11									20	
22	10.9			10.9			11			11									22	
24	10.8			10.9			11			11			11						24	
26	10.7			10.9			10.9			11			11			11			26	
28	10.7			10.8			10.9			10.9			11			11			28	
30	10.6			10.7			10.8			10.9			11			11			30	
32	10.5			10.7			10.8			10.9			10.9			11			32	
34	10.3			10.6			10.7			10.8			10.9			10.9			34	
36	10.2	10		10.5			10.7			10.8			10.9			10.9			36	
38	10.1	10		10.4	10		10.6			10.7			10.8			10.9			38	
40	9.9	9.8		10.3	10		10.5	10		10.7			10.8			10.8			40	
45	9.5	9.3		10	9.7		10.3	9.9		10.5	10		10.6	10		10.7			45	
50	9	8.9		9.5	9.2		10	9.5		10.3	9.8		10.4	9.9		10.6	10		50	
55	8.6	8.4	8.4	9.1	8.8	8.4	9.6	9.1		10	9.4		10.2	9.7		10.4	9.9		55	
60	8.2	8.1	8	8.7	8.4	8.3	9.2	8.8	8.4	9.6	9.1	8.4	10	9.3		10.2	9.6		60	
65	7.8	7.7	7.7	8.3	8.1	7.9	8.8	8.4	8.2	9.3	8.7	8.3	9.7	9	8.4	10	9.3	8.3	65	
70	7.4	7.3	7.4	8	7.8	7.6	8.5	8.1	7.9	8.9	8.4	8.1	9.4	8.7	8.2	9.7	9	8.1	70	
75	7.1	7	7.1	7.7	7.5	7.4	8.2	7.8	7.6	8.6	8.2	7.8	9	8.4	8	9.4	8.7	8	75	
80	6.8	6.7	6.8	7.3	7.2	7.1	7.9	7.5	7.4	8.3	7.9	7.6	8.7	8.2	7.8	9.1	8.4	7.9	80	
85	6.5	6.5	6.6	7.1	6.9	6.9	7.6	7.3	7.2	8	7.6	7.4	8.4	7.9	7.6	8.8	8.2	7.8	85	
90	6.2	6.2	6.3	6.8	6.6	6.7	7.3	7	6.9	7.8	7.4	7.2	8.2	7.7	7.4	8.6	8	7.6	90	
95	6	6	6.1	6.5	6.4	6.4	7	6.8	6.7	7.5	7.1	7	7.9	7.5	7.2	8.3	7.7	7.4	95	
100	5.7	5.8	6	6.2	6.2	6.3	6.8	6.6	6.6	7.2	6.9	6.8	7.7	7.2	7	8	7.5	7.2	100	
105	5.6	5.6	5.9	6	6	6.1	6.5	6.3	6.4	7	6.7	6.6	7.4	7	6.9	7.8	7.3	7	105	
110	5.3	5.5	5.8	5.8	5.8	6	6.3	6.2	6.2	6.8	6.5	6.5	7.2	6.8	6.7	7.6	7.1	6.9	110	
115	5.1	5.3	5.5	5.6	5.6	5.9	6.1	6	6.1	6.5	6.3	6.3	7	6.6	6.6	7.4	6.9	6.8	115	
120	4.9	5.1		5.5	5.5	5.8	5.9	5.8	6	6.3	6.1	6.2	6.7	6.5	6.4	7.2	6.8	6.6	120	
125				5.2	5.4		5.7	5.7	5.9	6.1	6	6.1	6.5	6.3	6.3	7	6.6	6.5	125	
130				5	5.2		5.6	5.6	5.8	6	5.8	6	6.4	6.1	6.2	6.7	6.4	6.4	130	
135				4.9			5.4	5.5	5.7	5.8	5.7	5.9	6.2	6	6.1	6.5	6.3	6.2	135	
140							5.2	5.3		5.6	5.6	5.8	6	5.9	6	6.4	6.1	6.1	140	
145							5	5.1		5.5	5.5	5.8	5.8	5.7	5.9	6.2	6	6.1	145	
150							4.9			5.3	5.4		5.7	5.6	5.8	6	5.9	6	150	
155										5.1	5.3		5.6	5.5	5.8	5.9	5.8	5.9	155	
160										5	5.1		5.4	5.5	5.7	5.8	5.7	5.8	160	
165												4.9			5.2	5.3	5.6	5.8	165	
170													5.1	5.2		5.5	5.5	5.8	170	
175													4.9	5.1		5.3	5.4		175	
180													4.9			5.2	5.3		180	
185																5.1	5.2		185	
190																4.9	5.1		190	
195																4.9			195	

t_253_003_50349_00_000

Lifting capacities

Forces de levage



TVNZK

Lift capacity (t)	131 ft + 23 ft			146 ft + 23 ft			161 ft + 23 ft			176 ft + 23 ft			191 ft + 23 ft			203 ft + 23 ft			Lift capacity (t)	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
30	11																		30	
32	11																		32	
34	11			10.7															34	
36	10.9			10.8			10.6												36	
38	10.9			11			10.7												38	
40	10.9			10.9			10.7												40	
45	10.8			10.9			10.6			9.7			8.3						45	
50	10.7			10.8			10.5			9.6			8.4			7.2			50	
55	10.6	10		10.7			10.4			9.5			8.4			7.4			55	
60	10.4	9.8		10.5	9.8		10.3			9.4			8.4			7.4			60	
65	10.2	9.5		10.4	9.6		10.2	9.3		9.4			8.3			7.4			65	
70	10	9.2	8.1	10.2	9.4		10.1	9.1		9.3	8.8		8.2			7.3			70	
75	9.7	8.9	8	10	9.1	7.9	10	9		9.2	8.6		8.2	8.1		7.3			75	
80	9.5	8.7	7.9	9.8	8.9	7.8	9.8	8.8	7.8	9.1	8.5		8.1	8		7.3	7.4		80	
85	9.2	8.4	7.8	9.5	8.7	7.8	9.6	8.7	7.7	9	8.4	7.6	8	7.8		7.2	7.3		85	
90	8.9	8.2	7.7	9.2	8.4	7.7	9.4	8.5	7.6	8.8	8.2	7.5	8	7.7	7.2	7.2	7.2		90	
95	8.7	8	7.6	9	8.2	7.6	9.2	8.3	7.5	8.7	8	7.4	7.9	7.6	7.1	7.1	7.1	6.8	95	
100	8.4	7.8	7.4	8.7	8	7.5	9	8.2	7.5	8.5	7.9	7.3	7.8	7.4	7.1	7.1	6.9	6.7	100	
105	8.2	7.6	7.2	8.5	7.8	7.4	8.8	8	7.4	8.4	7.7	7.3	7.7	7.3	6.9	7	6.8	6.6	105	
110	7.9	7.4	7.1	8.3	7.6	7.3	8.6	7.8	7.3	8.2	7.5	7.1	7.6	7.1	6.8	6.9	6.7	6.5	110	
115	7.7	7.2	6.9	8.1	7.5	7.1	8.4	7.6	7.2	8	7.4	7	7.4	7	6.7	6.8	6.6	6.4	115	
120	7.5	7	6.8	7.9	7.3	7	8.1	7.4	7.1	7.8	7.2	6.9	7.3	6.9	6.6	6.6	6.5	6.3	120	
125	7.3	6.9	6.7	7.7	7.1	6.9	7.9	7.3	7	7.6	7.1	6.8	7.2	6.7	6.5	6.5	6.4	6.2	125	
130	7.1	6.7	6.6	7.5	7	6.7	7.7	7.1	6.8	7.5	7	6.7	7.1	6.6	6.4	6.4	6.3	6.1	130	
135	6.9	6.6	6.4	7.3	6.8	6.6	7.5	7	6.7	7.3	6.8	6.6	6.9	6.5	6.3	6.2	6.2	6.1	135	
140	6.7	6.4	6.3	7.1	6.7	6.5	7.4	6.8	6.6	7.2	6.7	6.5	6.8	6.4	6.2	6.1	6	6	140	
145	6.6	6.2	6.2	6.9	6.5	6.4	7.2	6.7	6.5	7	6.5	6.4	6.7	6.2	6.1	5.9	5.9	5.9	145	
150	6.4	6.1	6.1	6.7	6.4	6.3	7	6.5	6.4	6.8	6.4	6.3	6.5	6.1	6	5.8	5.8	5.8	150	
155	6.2	6	6	6.6	6.2	6.2	6.8	6.4	6.3	6.7	6.3	6.2	6.4	6	6	5.6	5.6	5.7	155	
160	6.1	5.9	6	6.4	6.1	6.1	6.7	6.3	6.2	6.5	6.2	6.1	6.3	5.9	5.9	5.5	5.5	5.6	160	
165	6	5.8	5.9	6.3	6	6	6.5	6.2	6.1	6.4	6.1	6	6.1	5.9	5.8	5.4	5.3	5.4	165	
170	5.8	5.7	5.9	6.1	5.9	6	6.4	6	6	6.3	5.9	5.9	6	5.8	5.8	5.2	5.2	5.3	170	
175	5.7	5.6	5.8	6	5.8	5.9	6.2	5.9	5.9	6.1	5.9	5.9	5.9	5.7	5.7	5.1	5.1	5.2	175	
180	5.6	5.5	5.8	5.9	5.7	5.9	6.1	5.8	5.9	6	5.8	5.8	5.8	5.6	5.6	4.9	5	5.1	180	
185	5.5	5.5	5.8	5.7	5.6	5.8	6	5.7	5.8	5.9	5.7	5.8	5.7	5.5	5.6	4.8	4.8	4.9	185	
190	5.3	5.3		5.6	5.5	5.8	5.9	5.7	5.8	5.8	5.6	5.7	5.6	5.4	5.5	4.6	4.7	4.8	190	
195	5.2	5.2		5.5	5.5	5.7	5.7	5.6	5.8	5.7	5.5	5.7	5.5	5.4	5.5	4.4	4.6	4.7	195	
200	5	5.1		5.4	5.4		5.6	5.5	5.7	5.6	5.4	5.6	5.4	5.3	5.5	3.9	4.5	4.6	200	
205	4.9	5.1		5.3	5.3		5.5	5.4	5.7	5.5	5.4	5.6	5.2	5.2	5.4	2.9	4.3	4.5	205	
210	4.8			5.1	5.2		5.4	5.4		5.3	5.3	5.6	4	5.2	5.4	3.8	4.3		210	
215				5	5.1		5.3	5.3		5.2	5.2	5.5	2.9	4.7	5.4			3.8	215	
220				4.9	5.1		5.2	5.3		5	5.1	5.4	3.6	4.4					220	
225					2.2		5	5.1		4	4.9		2.4	3.1					225	
230							4.7	4.8		3	4.1								230	
235							4.6			2	2.9								235	
240										1.9									240	

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Lifting capacities

Forces de levage



TVNZK

Lift Angle	43 ft + 23 ft			57 ft + 23 ft			72 ft + 23 ft			87 ft + 23 ft			102 ft + 23 ft			116 ft + 23 ft			Lift Angle	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	11			11															17	
18	11			11			11												18	
19	10.9			11			11												19	
20	10.9			11			11			11									20	
22	10.9			10.9			11			11									22	
24	10.8			10.9			11			11			11						24	
26	10.7			10.9			10.9			11			11			11			26	
28	10.7			10.8			10.9			10.9			11			11			28	
30	10.6			10.7			10.8			10.9			11			11			30	
32	10.5			10.7			10.8			10.9			10.9			11			32	
34	10.3			10.6			10.7			10.8			10.9			10.9			34	
36	10.2	10		10.5			10.7			10.8			10.9			10.9			36	
38	10.1	10		10.4	10		10.6			10.7			10.8			10.9			38	
40	9.9	9.8		10.3	10		10.5	10		10.7			10.8			10.8			40	
45	9.5	9.3		10	9.7		10.3	9.9		10.5	10		10.6	10		10.7			45	
50	9	8.9		9.5	9.2		10	9.5		10.3	9.8		10.4	9.9		10.6	10		50	
55	8.6	8.4	8.4	9.1	8.8	8.4	9.6	9.1		10	9.4		10.2	9.7		10.4	9.9		55	
60	8.2	8.1	8	8.7	8.4	8.3	9.2	8.8	8.4	9.6	9.1	8.4	10	9.3		10.2	9.6		60	
65	7.8	7.7	7.7	8.3	8.1	7.9	8.8	8.4	8.2	9.3	8.7	8.3	9.7	9	8.4	10	9.3	8.3	65	
70	7.4	7.3	7.4	8	7.8	7.6	8.5	8.1	7.9	8.9	8.4	8.1	9.4	8.7	8.2	9.7	9	8.1	70	
75	7.1	7	7.1	7.7	7.5	7.4	8.2	7.8	7.6	8.6	8.2	7.8	9	8.4	8	9.4	8.7	8	75	
80	6.8	6.7	6.8	7.3	7.2	7.1	7.9	7.5	7.4	8.3	7.9	7.6	8.7	8.2	7.8	9.1	8.4	7.9	80	
85	6.5	6.5	6.6	7.1	6.9	6.9	7.6	7.3	7.2	8	7.6	7.4	8.4	7.9	7.6	8.8	8.2	7.8	85	
90	6.2	6.2	6.3	6.8	6.6	6.7	7.3	7	6.9	7.8	7.4	7.2	8.2	7.7	7.4	8.6	8	7.6	90	
95	6	6	6.1	6.5	6.4	6.4	7	6.8	6.7	7.5	7.1	7	7.9	7.5	7.2	8.3	7.7	7.4	95	
100	5.7	5.8	6	6.2	6.2	6.3	6.8	6.6	6.6	7.2	6.9	6.8	7.7	7.2	7	8	7.5	7.2	100	
105	5.6	5.6	5.9	6	6	6.1	6.5	6.3	6.4	7	6.7	6.6	7.4	7	6.9	7.8	7.3	7	105	
110	5.3	5.5	5.8	5.8	5.8	6	6.3	6.2	6.2	6.8	6.5	6.5	7.2	6.8	6.7	7.6	7.1	6.9	110	
115	5.1	5.3	5.5	5.6	5.6	5.9	6.1	6	6.1	6.5	6.3	6.3	7	6.6	6.6	7.4	6.9	6.8	115	
120	4.9	5.1		5.5	5.5	5.8	5.9	5.8	6	6.3	6.1	6.2	6.7	6.5	6.4	7.2	6.8	6.6	120	
125				5.2	5.4		5.7	5.7	5.9	6.1	6	6.1	6.5	6.3	6.3	7	6.6	6.5	125	
130				5	5.2		5.6	5.6	5.8	6	5.8	6	6.4	6.1	6.2	6.7	6.4	6.4	130	
135				4.9			5.4	5.5	5.7	5.8	5.7	5.9	6.2	6	6.1	6.5	6.3	6.2	135	
140							5.2	5.3		5.6	5.6	5.8	6	5.9	6	6.4	6.1	6.1	140	
145							5	5.1		5.5	5.5	5.8	5.8	5.7	5.9	6.2	6	6.1	145	
150							4.9			5.3	5.4		5.7	5.6	5.8	6	5.9	6	150	
155										5.1	5.3		5.6	5.5	5.8	5.9	5.8	5.9	155	
160										5	5.1		5.4	5.5	5.7	5.8	5.7	5.8	160	
165												4.9			5.2	5.3	5.6	5.8	165	
170													5.1	5.2		5.5	5.5	5.8	170	
175													4.9	5.1		5.3	5.4		175	
180													4.9			5.2	5.3		180	
185																5.1	5.2		185	
190																4.9	5.1		190	
195																4.9			195	

t_253_003_50078_00_000

Lifting capacities

Forces de levage



85%

TVNZK

Lift Capacity (T)	131 ft + 23 ft			146 ft + 23 ft			161 ft + 23 ft			176 ft + 23 ft			191 ft + 23 ft			203 ft + 23 ft			Lift Capacity (T)	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
30	11																		30	
32	11																		32	
34	11			10.7															34	
36	10.9			10.8			10.6												36	
38	10.9			11			10.7												38	
40	10.9			10.9			10.7												40	
45	10.8			10.9			10.6			9.7			8.3						45	
50	10.7			10.8			10.5			9.6			8.4			7.2			50	
55	10.6	10		10.7			10.4			9.5			8.4			7.4			55	
60	10.4	9.8		10.5	9.8		10.3			9.4			8.4			7.4			60	
65	10.2	9.5		10.4	9.6		10.2	9.3		9.4			8.3			7.4			65	
70	10	9.2	8.1	10.2	9.4		10.1	9.1		9.3	8.8		8.2			7.3			70	
75	9.7	8.9	8	10	9.1	7.9	10	9		9.2	8.6		8.2	8.1		7.3			75	
80	9.5	8.7	7.9	9.8	8.9	7.8	9.8	8.8	7.8	9.1	8.5		8.1	8		7.3	7.4		80	
85	9.2	8.4	7.8	9.5	8.7	7.8	9.6	8.7	7.7	9	8.4	7.6	8	7.8		7.2	7.3		85	
90	8.9	8.2	7.7	9.2	8.4	7.7	9.4	8.5	7.6	8.8	8.2	7.5	8	7.7	7.2	7.2	7.2		90	
95	8.7	8	7.6	9	8.2	7.6	9.2	8.3	7.5	8.7	8	7.4	7.9	7.6	7.1	7.1	7.1	6.8	95	
100	8.4	7.8	7.4	8.7	8	7.5	9	8.2	7.5	8.5	7.9	7.3	7.8	7.4	7.1	7.1	6.9	6.7	100	
105	8.2	7.6	7.2	8.5	7.8	7.4	8.8	8	7.4	8.4	7.7	7.3	7.7	7.3	6.9	7	6.8	6.6	105	
110	7.9	7.4	7.1	8.3	7.6	7.3	8.6	7.8	7.3	8.2	7.5	7.1	7.6	7.1	6.8	6.9	6.7	6.5	110	
115	7.7	7.2	6.9	8.1	7.5	7.1	8.4	7.6	7.2	8	7.4	7	7.4	7	6.7	6.8	6.6	6.4	115	
120	7.5	7	6.8	7.9	7.3	7	8.1	7.4	7.1	7.8	7.2	6.9	7.3	6.9	6.6	6.6	6.5	6.3	120	
125	7.3	6.9	6.7	7.7	7.1	6.9	7.9	7.3	7	7.6	7.1	6.8	7.2	6.7	6.5	6.5	6.4	6.2	125	
130	7.1	6.7	6.6	7.5	7	6.7	7.7	7.1	6.8	7.5	7	6.7	7.1	6.6	6.4	6.4	6.3	6.1	130	
135	6.9	6.6	6.4	7.3	6.8	6.6	7.5	7	6.7	7.3	6.8	6.6	6.9	6.5	6.3	6.2	6.2	6.1	135	
140	6.7	6.4	6.3	7.1	6.7	6.5	7.4	6.8	6.6	7.2	6.7	6.5	6.8	6.4	6.2	6.1	6	6	140	
145	6.6	6.2	6.2	6.9	6.5	6.4	7.2	6.7	6.5	7	6.5	6.4	6.7	6.2	6.1	5.9	5.9	5.9	145	
150	6.4	6.1	6.1	6.7	6.4	6.3	7	6.5	6.4	6.8	6.4	6.3	6.5	6.1	6	5.8	5.8	5.8	150	
155	6.2	6	6	6.6	6.2	6.2	6.8	6.4	6.3	6.7	6.3	6.2	6.4	6	6	5.6	5.6	5.7	155	
160	6.1	5.9	6	6.4	6.1	6.1	6.7	6.3	6.2	6.5	6.2	6.1	6.3	5.9	5.9	5.5	5.5	5.6	160	
165	6	5.8	5.9	6.3	6	6	6.5	6.2	6.1	6.4	6.1	6	6.1	5.9	5.8	5.4	5.3	5.4	165	
170	5.8	5.7	5.9	6.1	5.9	6	6.4	6	6	6.3	5.9	5.9	6	5.8	5.8	5.2	5.2	5.3	170	
175	5.7	5.6	5.8	6	5.8	5.9	6.2	5.9	5.9	6.1	5.9	5.9	5.9	5.7	5.7	5.1	5.1	5.2	175	
180	5.6	5.5	5.8	5.9	5.7	5.9	6.1	5.8	5.9	6	5.8	5.8	5.8	5.6	5.6	4.9	5	5.1	180	
185	5.5	5.5	5.8	5.7	5.6	5.8	6	5.7	5.8	5.9	5.7	5.8	5.7	5.5	5.6	4.8	4.8	4.9	185	
190	5.3	5.3		5.6	5.5	5.8	5.9	5.7	5.8	5.8	5.6	5.7	5.6	5.4	5.5	4.6	4.7	4.8	190	
195	5.2	5.2		5.5	5.5	5.7	5.7	5.6	5.8	5.7	5.5	5.7	5.5	5.4	5.5	4.4	4.6	4.7	195	
200	5	5.1		5.4	5.4		5.6	5.5	5.7	5.5	5.4	5.6	5.3	5.3	5.5	3.5	4.5	4.6	200	
205	4.9	5.1		5.3	5.3		5.5	5.4	5.7	5.4	5.3	5.5	4.7	5.2	5.4		4.3	4.5	205	
210	4.8			5.1	5.2		5.4	5.3		5.3	5.2	5.5	3.5	5.1	5.4		3.6	4.3	210	
215				5	5.1		5.1	5.3		5	5.2	5.5	2.4	4.3	5			3.6	215	
220				4.9	5.1		5	5.1		4.5	5	5.2	3.1	4				220		
225					2.2		4.9	5		3.5	4.5			1.8	2.6				225	
230							4.7	4.8		2.5	3.6								230	
235							4.4			2.5									235	

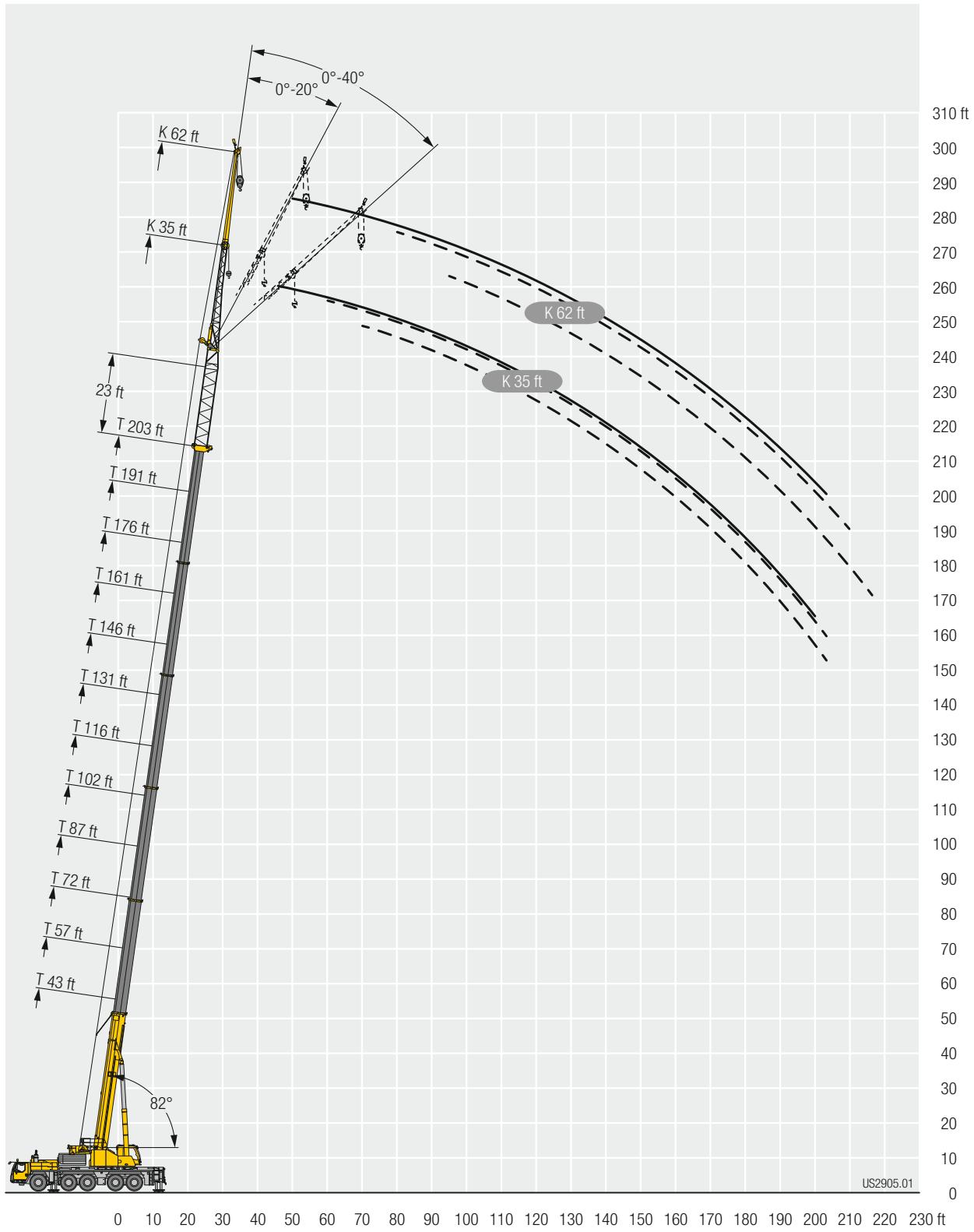
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Lifting heights

Hauteurs de levage

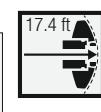
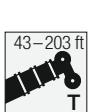


TVNZK



Lifting capacities

Forces de levage



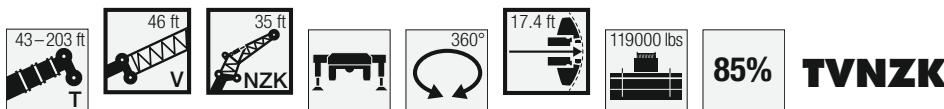
TVNZK

A rm length	43 ft + 46 ft			57 ft + 46 ft			72 ft + 46 ft			87 ft + 46 ft			102 ft + 46 ft			116 ft + 46 ft			A rm length	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	12.4			12.5															17	
18	12.4			12.5			12.5												18	
19	12.3			12.5			12.5												19	
20	12.2			12.4			12.5			12.5									20	
22	12.1			12.3			12.4			12.5									22	
24	11.9			12.2			12.3			12.5			12.5						24	
26	11.8	11.8		12			12.2			12.4			12.5			12.5			26	
28	11.6	11.8		11.9	11.8		12.1			12.3			12.4			12.5			28	
30	11.3	11.5		11.8	11.8		12	11.8		12.2			12.3			12.4			30	
32	11.1	11.2		11.6	11.6		11.9	11.8		12.1	11.8		12.2			12.4			32	
34	10.8	10.8	10.5	11.4	11.3		11.8	11.7		12	11.8		12.1			12.3			34	
36	10.6	10.6	10.5	11.1	11.1	10.5	11.6	11.5		11.9	11.8		12	11.8		12.2			36	
38	10.3	10.3	10.3	10.9	10.8	10.5	11.4	11.2	10.5	11.8	11.6		11.9	11.8		12.1	11.8		38	
40	10.1	10	10.1	10.7	10.5	10.4	11.2	11	10.5	11.6	11.4		11.8	11.7		12	11.8		40	
45	9.5	9.4	9.5	10.1	9.9	9.9	10.7	10.4	10.2	11.1	10.8	10.5	11.5	11.2	10.5	11.8	11.5		45	
50	8.9	8.8	8.9	9.6	9.4	9.3	10.2	9.9	9.7	10.7	10.3	10	11.1	10.7	10.3	11.4	11	10.5	50	
55	8.4	8.3	8.4	9	8.9	8.9	9.7	9.4	9.3	10.2	9.8	9.6	10.7	10.2	9.9	11	10.6	10.2	55	
60	7.9	7.9	7.9	8.6	8.4	8.4	9.2	8.9	8.8	9.7	9.4	9.2	10.2	9.8	9.5	10.6	10.1	9.8	60	
65	7.5	7.5	7.5	8.1	8	8	8.7	8.5	8.4	9.3	9	8.8	9.8	9.4	9.1	10.2	9.7	9.4	65	
70	7.1	7.1	7.2	7.7	7.6	7.7	8.3	8.1	8.1	8.9	8.6	8.5	9.4	9	8.8	9.9	9.4	9.1	70	
75	6.7	6.7	6.8	7.4	7.3	7.3	8	7.8	7.7	8.5	8.2	8.1	9	8.6	8.5	9.5	9	8.8	75	
80	6.4	6.4	6.5	7	6.9	7	7.6	7.4	7.4	8.2	7.9	7.8	8.6	8.3	8.2	9.1	8.7	8.5	80	
85	6	6.1	6.1	6.7	6.6	6.7	7.3	7.1	7.1	7.8	7.6	7.5	8.3	8	7.9	8.8	8.4	8.2	85	
90	5.7	5.7	5.9	6.4	6.3	6.4	7	6.8	6.9	7.5	7.3	7.2	8	7.7	7.6	8.5	8.1	7.9	90	
95	5.5	5.5	5.6	6.1	6.1	6.1	6.7	6.6	6.6	7.2	7	7	7.7	7.4	7.3	8.2	7.8	7.7	95	
100	5.2	5.3	5.4	5.8	5.8	5.9	6.4	6.3	6.3	6.9	6.8	6.7	7.4	7.2	7.1	7.9	7.6	7.4	100	
105	5	5.1	5.2	5.6	5.5	5.6	6.1	6.1	6.1	6.6	6.5	6.5	7.1	6.9	6.9	7.6	7.3	7.2	105	
110	4.8	4.9	5.2	5.3	5.3	5.5	5.9	5.8	5.9	6.4	6.3	6.3	6.9	6.7	6.7	7.3	7.1	7	110	
115	4.6	4.6		5.1	5.2		5.6	5.6	5.7	6.1	6.1	6.1	6.6	6.5	6.4	7.1	6.8	6.8	115	
120				4.9	5		5.4	5.4	5.5	5.9	5.8	5.9	6.4	6.2	6.2	6.8	6.6	6.6	120	
125				4.7	4.8		5.2	5.2		5.7	5.6	5.7	6.2	6.1	6.1	6.6	6.4	6.4	125	
130				4.5			5.1	5.1		5.5	5.5	5.5	5.9	5.8	5.9	6.4	6.2	6.2	130	
135							4.9	4.9		5.3	5.3		5.8	5.6	5.7	6.2	6.1	6	135	
140							4.7	4.8		5.2	5.1		5.6	5.5	5.6	6	5.9	5.9	140	
145							4.5			5	5		5.4	5.4	5.4	5.8	5.7	5.7	145	
150										4.8	4.9		5.2	5.2		5.6	5.5	5.6	150	
155										4.7	4.7		5.1	5.1		5.5	5.4	5.5	155	
160										4.5			4.9	5		5.3	5.3		160	
165													4.8	4.8		5.2	5.1		165	
170													4.6	4.7		5	5		170	
175													4.5			4.9	4.9		175	
180																4.7	4.8		180	
185																4.6			185	
190																4.5			190	

t_253_003_50409_00_000

Lifting capacities

Forces de levage



	131 ft + 46 ft			146 ft + 46 ft			161 ft + 46 ft			176 ft + 46 ft			191 ft + 46 ft			203 ft + 46 ft						
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
30	12.5																					30
32	12.5																					32
34	12.4			12.5																		34
36	12.3			12.4			12.4															36
38	12.2			12.4			12.3			10.7												38
40	12.1			12.3			12.3															40
45	11.9	11.7		12.1			12.1			10.6			8.9									45
50	11.7	11.3		11.9	11.6		11.9	11.8		10.5			9			7.4						50
55	11.4	10.9	10.4	11.6	11.2	10.5	11.8	11.4		10.4	10.4		8.9			7.6						55
60	11	10.5	10	11.3	10.8	10.3	11.5	11	10.4	10.3	10.1		8.8	8.9		7.6						60
65	10.6	10.1	9.7	11	10.4	9.9	11.3	10.7	10.1	10.1	9.9	9.5	8.7	8.8		7.6	7.7					65
70	10.3	9.7	9.4	10.6	10	9.6	10.9	10.3	9.8	9.9	9.6	9.3	8.6	8.6	8.5	7.5	7.6					70
75	9.9	9.4	9.1	10.3	9.7	9.3	10.6	10	9.5	9.7	9.4	9	8.5	8.5	8.3	7.5	7.5	7.5			75	
80	9.5	9	8.8	9.9	9.4	9	10.3	9.6	9.3	9.6	9.1	8.8	8.4	8.3	8.1	7.4	7.5	7.4			80	
85	9.2	8.7	8.5	9.6	9	8.7	10	9.3	9	9.3	8.9	8.5	8.3	8.1	7.9	7.3	7.4	7.3			85	
90	8.9	8.4	8.2	9.3	8.7	8.5	9.7	9.1	8.7	9.1	8.6	8.3	8.2	7.9	7.7	7.3	7.2	7.1			90	
95	8.6	8.2	8	9	8.5	8.2	9.3	8.8	8.5	8.8	8.4	8.1	8	7.7	7.5	7.2	7.1	7			95	
100	8.3	7.9	7.7	8.7	8.2	8	9	8.5	8.2	8.6	8.1	7.9	7.9	7.5	7.3	7.1	6.9	6.8			100	
105	8	7.7	7.5	8.4	8	7.8	8.8	8.3	8	8.3	7.9	7.7	7.7	7.3	7.2	7	6.8	6.7			105	
110	7.8	7.4	7.3	8.2	7.8	7.6	8.5	8	7.8	8.1	7.7	7.5	7.5	7.2	7	6.8	6.7	6.6			110	
115	7.5	7.2	7.1	7.9	7.5	7.4	8.2	7.8	7.6	7.9	7.5	7.3	7.3	7	6.9	6.6	6.5	6.5			115	
120	7.3	7	6.9	7.7	7.3	7.2	8	7.6	7.4	7.7	7.3	7.2	7.1	6.9	6.7	6.4	6.4	6.3			120	
125	7	6.8	6.7	7.4	7.1	7	7.8	7.4	7.2	7.5	7.1	7	7	6.7	6.6	6.3	6.2	6.2			125	
130	6.8	6.6	6.5	7.2	6.9	6.8	7.6	7.2	7	7.3	7	6.8	6.8	6.5	6.4	6.1	6.1	6.1			130	
135	6.6	6.4	6.4	7	6.7	6.6	7.3	7	6.9	7.1	6.8	6.7	6.6	6.4	6.3	6	5.9	5.9			135	
140	6.4	6.2	6.2	6.8	6.5	6.5	7.1	6.8	6.7	6.9	6.6	6.5	6.5	6.3	6.2	5.8	5.7	5.8			140	
145	6.2	6.1	6	6.6	6.4	6.3	6.9	6.6	6.5	6.7	6.5	6.4	6.3	6.1	6	5.6	5.6	5.6			145	
150	6	5.9	5.9	6.4	6.2	6.2	6.7	6.5	6.4	6.5	6.3	6.2	6.2	6	5.9	5.5	5.4	5.5			150	
155	5.8	5.7	5.7	6.2	6.1	6	6.5	6.3	6.2	6.4	6.2	6.1	6	5.9	5.8	5.3	5.3	5.3			155	
160	5.7	5.6	5.6	6	5.9	5.9	6.3	6.1	6.1	6.2	6	6	5.9	5.7	5.7	5.1	5.1	5.2			160	
165	5.5	5.4	5.5	5.9	5.7	5.8	6.2	6	5.9	6.1	5.9	5.8	5.8	5.6	5.6	5	5	5			165	
170	5.4	5.3		5.7	5.6	5.6	6	5.8	5.8	5.9	5.7	5.7	5.7	5.5	5.5	4.8	4.8	4.9			170	
175	5.3	5.2		5.6	5.5	5.5	5.9	5.7	5.7	5.8	5.6	5.6	5.5	5.4	5.4	4.7	4.7	4.8			175	
180	5.1	5.1		5.4	5.4	5.4	5.7	5.6	5.6	5.6	5.5	5.5	5.4	5.3	4.5	4.6	4.6	4.6			180	
185	5	5		5.3	5.2		5.6	5.4	5.5	5.5	5.4	5.4	5.3	5.2	5.2	4.3	4.4	4.5			185	
190	4.8	4.9		5.2	5.1		5.4	5.3	5.4	5.4	5.3	5.3	5.2	5.1	5.1	3.8	4.3	4.4			190	
195	4.7	4.8		5.1	5.1		5.3	5.2		5.3	5.2	5.2	4.9	5	5.1		3.8	4.2			195	
200	4.6			4.9	5		5.2	5.1		5.2	5.1	5.2	3.7	4.7	4.9		3.5				200	
205	4.5			4.8	4.8		5	5		5	5		2.3	3.7	4.4						205	
210				4.7	4.7		5	4.9		4.3	4.8		3								210	
215				4.6			4.9	4.9		3.3	4.1										215	
220				4.1			4.5	4.8		2.2	3										220	
225							4.2	4.4				1.8										225
230							3.3														230	
235							1.9														235	

t_253_003_50409_00_000

Lifting capacities

Forces de levage



85%

TVNZK

Lift	43 ft + 46 ft			57 ft + 46 ft			72 ft + 46 ft			87 ft + 46 ft			102 ft + 46 ft			116 ft + 46 ft			Lift	
	35 ft			35 ft			35 ft													
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	12.4			12.5															17	
18	12.4			12.5			12.5												18	
19	12.3			12.5			12.5												19	
20	12.2			12.4			12.5			12.5									20	
22	12.1			12.3			12.4			12.5									22	
24	11.9			12.2			12.3			12.5			12.5						24	
26	11.8	11.8		12			12.2			12.4			12.5			12.5			26	
28	11.6	11.8		11.9	11.8		12.1			12.3			12.4			12.5			28	
30	11.3	11.5		11.8	11.8		12	11.8		12.2			12.3			12.4			30	
32	11.1	11.2		11.6	11.6		11.9	11.8		12.1	11.8		12.2			12.4			32	
34	10.8	10.8	10.5	11.4	11.3		11.8	11.7		12	11.8		12.1			12.3			34	
36	10.6	10.6	10.5	11.1	11.1	10.5	11.6	11.5		11.9	11.8		12	11.8		12.2			36	
38	10.3	10.3	10.3	10.9	10.8	10.5	11.4	11.2	10.5	11.8	11.6		11.9	11.8		12.1	11.8		38	
40	10.1	10	10.1	10.7	10.5	10.4	11.2	11	10.5	11.6	11.4		11.8	11.7		12	11.8		40	
45	9.5	9.4	9.5	10.1	9.9	9.9	10.7	10.4	10.2	11.1	10.8	10.5	11.5	11.2	10.5	11.8	11.5		45	
50	8.9	8.8	8.9	9.6	9.4	9.3	10.2	9.9	9.7	10.7	10.3	10	11.1	10.7	10.3	11.4	11	10.5	50	
55	8.4	8.3	8.4	9	8.9	8.9	9.7	9.4	9.3	10.2	9.8	9.6	10.7	10.2	9.9	11	10.6	10.2	55	
60	7.9	7.9	7.9	8.6	8.4	8.4	9.2	8.9	8.8	9.7	9.4	9.2	10.2	9.8	9.5	10.6	10.1	9.8	60	
65	7.5	7.5	7.5	8.1	8	8	8.7	8.5	8.4	9.3	9	8.8	9.8	9.4	9.1	10.2	9.7	9.4	65	
70	7.1	7.1	7.2	7.7	7.6	7.7	8.3	8.1	8.1	8.9	8.6	8.5	9.4	9	8.8	9.9	9.4	9.1	70	
75	6.7	6.7	6.8	7.4	7.3	7.3	8	7.8	7.7	8.5	8.2	8.1	9	8.6	8.5	9.5	9	8.8	75	
80	6.4	6.4	6.5	7	6.9	7	7.6	7.4	7.4	8.2	7.9	7.8	8.6	8.3	8.2	9.1	8.7	8.5	80	
85	6	6.1	6.1	6.7	6.6	6.7	7.3	7.1	7.1	7.8	7.6	7.5	8.3	8	7.9	8.8	8.4	8.2	85	
90	5.7	5.7	5.9	6.4	6.3	6.4	7	6.8	6.9	7.5	7.3	7.2	8	7.7	7.6	8.5	8.1	7.9	90	
95	5.5	5.5	5.6	6.1	6.1	6.1	6.7	6.6	6.6	7.2	7	7	7.7	7.4	7.3	8.2	7.8	7.7	95	
100	5.2	5.3	5.4	5.8	5.8	5.9	6.4	6.3	6.3	6.9	6.8	6.7	7.4	7.2	7.1	7.9	7.6	7.4	100	
105	5	5.1	5.2	5.6	5.5	5.6	6.1	6.1	6.1	6.6	6.5	6.5	7.1	6.9	6.9	7.6	7.3	7.2	105	
110	4.8	4.9	5.2	5.3	5.3	5.5	5.9	5.8	5.9	6.4	6.3	6.3	6.9	6.7	6.7	7.3	7.1	7	110	
115	4.6	4.6		5.1	5.2		5.6	5.6	5.7	6.1	6.1	6.1	6.6	6.5	6.4	7.1	6.8	6.8	115	
120				4.9	5		5.4	5.4	5.5	5.9	5.8	5.9	6.4	6.2	6.2	6.8	6.6	6.6	120	
125				4.7	4.8		5.2	5.2		5.7	5.6	5.7	6.2	6.1	6.1	6.6	6.4	6.4	125	
130				4.5			5.1	5.1		5.5	5.5	5.5	5.9	5.8	5.9	6.4	6.2	6.2	130	
135							4.9	4.9		5.3	5.3		5.8	5.6	5.7	6.2	6.1	6	135	
140							4.7	4.8		5.2	5.1		5.6	5.5	5.6	6	5.9	5.9	140	
145							4.5			5	5		5.4	5.4	5.4	5.8	5.7	5.7	145	
150										4.8	4.9		5.2	5.2		5.6	5.5	5.6	150	
155										4.7	4.7		5.1	5.1		5.5	5.4	5.5	155	
160										4.5			4.9	5		5.3	5.3		160	
165													4.8	4.8		5.2	5.1		165	
170													4.6	4.7		5	5		170	
175													4.5			4.9	4.9		175	
180																4.7	4.8		180	
185																4.6			185	
190																4.5			190	

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Lifting capacities

Forces de levage



TVNZK

Lift height H	131 ft + 46 ft			146 ft + 46 ft			161 ft + 46 ft			176 ft + 46 ft			191 ft + 46 ft			203 ft + 46 ft			Lift height H	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
30	12.5																		30	
32	12.5																		32	
34	12.4			12.5															34	
36	12.3			12.4			12.4												36	
38	12.2			12.4			12.3												38	
40	12.1			12.3			12.3			10.7									40	
45	11.9	11.7		12.1			12.1			10.6			8.9						45	
50	11.7	11.3		11.9	11.6		11.9	11.8		10.5			9			7.4			50	
55	11.4	10.9	10.4	11.6	11.2	10.5	11.8	11.4		10.4	10.4		8.9			7.6			55	
60	11	10.5	10	11.3	10.8	10.3	11.5	11	10.4	10.3	10.1		8.8	8.9		7.6			60	
65	10.6	10.1	9.7	11	10.4	9.9	11.3	10.7	10.1	10.1	9.9	9.5	8.7	8.8		7.6	7.7		65	
70	10.3	9.7	9.4	10.6	10	9.6	10.9	10.3	9.8	9.9	9.6	9.3	8.6	8.6	8.5	7.5	7.6		70	
75	9.9	9.4	9.1	10.3	9.7	9.3	10.6	10	9.5	9.7	9.4	9	8.5	8.5	8.3	7.5	7.5	7.5	75	
80	9.5	9	8.8	9.9	9.4	9	10.3	9.6	9.3	9.6	9.1	8.8	8.4	8.3	8.1	7.4	7.5	7.4	80	
85	9.2	8.7	8.5	9.6	9	8.7	10	9.3	9	9.3	8.9	8.5	8.3	8.1	7.9	7.3	7.4	7.3	85	
90	8.9	8.4	8.2	9.3	8.7	8.5	9.7	9.1	8.7	9.1	8.6	8.3	8.2	7.9	7.7	7.3	7.2	7.1	90	
95	8.6	8.2	8	9	8.5	8.2	9.3	8.8	8.5	8.8	8.4	8.1	8	7.7	7.5	7.2	7.1	7	95	
100	8.3	7.9	7.7	8.7	8.2	8	9	8.5	8.2	8.6	8.1	7.9	7.9	7.5	7.3	7.1	6.9	6.8	100	
105	8	7.7	7.5	8.4	8	7.8	8.8	8.3	8	8.3	7.9	7.7	7.7	7.3	7.2	7	6.8	6.7	105	
110	7.8	7.4	7.3	8.2	7.8	7.6	8.5	8	7.8	8.1	7.7	7.5	7.5	7.2	7	6.8	6.7	6.6	110	
115	7.5	7.2	7.1	7.9	7.5	7.4	8.2	7.8	7.6	7.9	7.5	7.3	7.3	7	6.9	6.6	6.5	6.5	115	
120	7.3	7	6.9	7.7	7.3	7.2	8	7.6	7.4	7.7	7.3	7.2	7.1	6.9	6.7	6.4	6.4	6.3	120	
125	7	6.8	6.7	7.4	7.1	7	7.8	7.4	7.2	7.5	7.1	7	7	6.7	6.6	6.3	6.2	6.2	125	
130	6.8	6.6	6.5	7.2	6.9	6.8	7.6	7.2	7	7.3	7	6.8	6.8	6.5	6.4	6.1	6.1	6.1	130	
135	6.6	6.4	6.4	7	6.7	6.6	7.3	7	6.9	7.1	6.8	6.7	6.6	6.4	6.3	6	5.9	5.9	135	
140	6.4	6.2	6.2	6.8	6.5	6.5	7.1	6.8	6.7	6.9	6.6	6.5	6.5	6.3	6.2	5.8	5.7	5.8	140	
145	6.2	6.1	6	6.6	6.4	6.3	6.9	6.6	6.5	6.7	6.5	6.4	6.3	6.1	6	5.6	5.6	5.6	145	
150	6	5.9	5.9	6.4	6.2	6.2	6.7	6.5	6.4	6.5	6.3	6.2	6.2	6	5.9	5.5	5.4	5.5	150	
155	5.8	5.7	5.7	6.2	6.1	6	6.5	6.3	6.2	6.4	6.2	6.1	6	5.9	5.8	5.3	5.3	5.3	155	
160	5.7	5.6	5.6	6	5.9	5.9	6.3	6.1	6.1	6.2	6	6	5.9	5.7	5.7	5.1	5.1	5.2	160	
165	5.5	5.4	5.5	5.9	5.7	5.8	6.2	6	5.9	6.1	5.9	5.8	5.8	5.6	5.6	5	5	5	165	
170	5.4	5.3		5.7	5.6	5.6	6	5.8	5.8	5.9	5.7	5.7	5.7	5.5	5.5	4.8	4.8	4.9	170	
175	5.3	5.2		5.6	5.5	5.5	5.9	5.7	5.7	5.8	5.6	5.6	5.5	5.4	5.4	4.7	4.7	4.8	175	
180	5.1	5.1		5.4	5.4	5.4	5.7	5.6	5.6	5.6	5.5	5.5	5.4	5.3	5.3	4.5	4.6	4.6	180	
185	5	5		5.3	5.2		5.6	5.4	5.5	5.5	5.4	5.4	5.3	5.2	5.2	4.3	4.4	4.5	185	
190	4.8	4.9		5.2	5.1		5.4	5.3	5.4	5.4	5.3	5.3	5.1	5.1	5.1	3.4	4.3	4.4	190	
195	4.7	4.8		5.1	5.1		5.3	5.2		5.2	5.2	5.2	4.4	5	5.1		3.6	4.2	195	
200	4.6			4.9	5		5.1	5.1		5.1	5	5.1	3.2	4.3	4.8		3.2	200		
205	4.5			4.8	4.8		5	5		4.8	4.9			3.2	3.8				205	
210				4.7	4.7		4.8	4.9		4	4.6			2.5					210	
215					4.6		4.7			2.8	3.7								215	
220						4.1		4.6			2.5								220	
225										3.8	4.2								225	
230										2.8									230	
235										1.8									235	

t_253_003_50133_00_000

Lifting capacities

Forces de levage



	43 ft + 46 ft			57 ft + 46 ft			72 ft + 46 ft			87 ft + 46 ft			102 ft + 46 ft			116 ft + 46 ft			
	62 ft			62 ft			62 ft												
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
17	8.4																		17
18	8.4																		18
19	8.4			8.4															19
20	8.4			8.4															20
22	8.4			8.4			8.4			8.4									22
24	8.3			8.4			8.4			8.4									24
26	8.3			8.3			8.4			8.4									26
28	8.2			8.3			8.4			8.4			8.4						28
30	8.1			8.2			8.3			8.4			8.4			8.4			30
32	8.1			8.2			8.3			8.3			8.4			8.4			32
34	8			8.1			8.2			8.3			8.4			8.4			34
36	7.9			8.1			8.2			8.3			8.3			8.4			36
38	7.8			8			8.1			8.2			8.3			8.3			38
40	7.7	7.7		7.9			8.1			8.2			8.2			8.3			40
45	7.4	7.5		7.6	7.6		7.9	7.7		8			8.1			8.2			45
50	7	7.1		7.4	7.4		7.6	7.6		7.8	7.7		8	7.7		8.1			50
55	6.6	6.7	6.5	7	7		7.4	7.3		7.6	7.5		7.8	7.6		8	7.7		55
60	6.3	6.4	6.5	6.7	6.7	6.5	7.1	6.9	6.5	7.4	7.2		7.6	7.4		7.8	7.6		60
65	5.9	6	6.2	6.4	6.4	6.4	6.8	6.6	6.5	7.1	6.9	6.5	7.4	7.1		7.6	7.3		65
70	5.6	5.7	5.9	6.1	6.1	6.1	6.5	6.3	6.3	6.8	6.6	6.4	7.1	6.8	6.5	7.4	7	6.5	70
75	5.3	5.4	5.5	5.8	5.8	5.8	6.2	6.1	6	6.5	6.3	6.2	6.8	6.6	6.4	7.1	6.8	6.5	75
80	5	5.1	5.3	5.5	5.5	5.5	5.9	5.8	5.8	6.2	6.1	6	6.6	6.3	6.1	6.9	6.5	6.3	80
85	4.8	4.8	5	5.2	5.2	5.3	5.6	5.5	5.5	6	5.8	5.7	6.3	6.1	5.9	6.6	6.3	6.1	85
90	4.5	4.6	4.7	4.9	5	5	5.4	5.3	5.3	5.7	5.6	5.5	6.1	5.8	5.7	6.4	6.1	5.9	90
95	4.3	4.4	4.5	4.7	4.7	4.8	5.1	5	5.1	5.5	5.3	5.3	5.8	5.6	5.5	6.1	5.9	5.7	95
100	4.1	4.2	4.3	4.5	4.5	4.6	4.9	4.8	4.9	5.3	5.1	5.1	5.6	5.4	5.3	5.9	5.7	5.5	100
105	3.9	4	4.1	4.3	4.3	4.4	4.7	4.6	4.7	5	4.9	4.9	5.4	5.2	5.1	5.7	5.5	5.3	105
110	3.7	3.8	3.9	4.1	4.1	4.2	4.5	4.4	4.5	4.8	4.7	4.7	5.2	5	5	5.5	5.3	5.2	110
115	3.6	3.6	3.8	3.9	4	4.1	4.3	4.3	4.3	4.6	4.6	4.6	5	4.8	4.8	5.3	5.1	5	115
120	3.4	3.5	3.6	3.8	3.8	3.9	4.1	4.1	4.2	4.5	4.4	4.4	4.8	4.7	4.6	5.1	4.9	4.8	120
125	3.3	3.3	3.5	3.6	3.6	3.8	4	3.9	4	4.3	4.2	4.3	4.6	4.5	4.5	4.9	4.7	4.7	125
130	3.1	3.2	3.4	3.5	3.5	3.6	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.3	4.3	4.7	4.6	4.6	130
135	3.1	3.1	3.4	3.3	3.4	3.5	3.7	3.7	3.8	4	3.9	4	4.3	4.2	4.2	4.6	4.4	4.4	135
140	3	3.1		3.2	3.3	3.4	3.5	3.5	3.6	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.3	4.3	140
145				3.1	3.2		3.4	3.4	3.6	3.7	3.7	3.8	4	3.9	4	4.3	4.2	4.2	145
150				3	3.1		3.3	3.3	3.5	3.6	3.6	3.7	3.9	3.8	3.9	4.1	4	4.1	150
155				3	3.1		3.2	3.2		3.5	3.4	3.6	3.7	3.7	3.8	4	3.9	4	155
160					3.1	3.1		3.3	3.3	3.5	3.6	3.6	3.7	3.9	3.8	3.9	3.8	3.9	160
165						3	3.1		3.2	3.3	3.4	3.5	3.5	3.6	3.8	3.7	3.8	3.8	165
170						3	3.1		3.1	3.2	3.4	3.4	3.5	3.7	3.6	3.7	3.7	3.7	170
175									3.1	3.1		3.3	3.3	3.4	3.5	3.5	3.5	3.6	175
180									3	3.1		3.2	3.2		3.4	3.4	3.4	3.5	180
185									3	3.1		3.1			3.3	3.3	3.5		185
190										3.1	3.1				3.2	3.2	3.4		190
195											3	3.1			3.2	3.2			195
200											3				3.1	3.1			200
205															3	3.1			205
210															3	3.1			210
215															3				215

t_253_003_50421_00_000

Lifting capacities

Forces de levage



	131 ft + 46 ft			146 ft + 46 ft			161 ft + 46 ft			176 ft + 46 ft			191 ft + 46 ft			203 ft + 46 ft							
	62 ft			62 ft																			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
34	8.4																						34
36	8.4																						36
38	8.4			7.4																			38
40	8.4			7.6																			40
45	8.3			7.9			7.7																45
50	8.2			8.2			8			6.7													50
55	8.1			8.1			8			6.9			5.4										55
60	7.9	7.6		8.1			7.9			7			5.6			4.4							60
65	7.7	7.5		7.9	7.6		7.8			7			5.8			4.6							65
70	7.5	7.2		7.7	7.4		7.7	7.5		6.9			5.9			4.7							70
75	7.4	7	6.5	7.5	7.1		7.6	7.3		6.8	6.8		5.9			4.8							75
80	7.1	6.7	6.4	7.4	6.9	6.5	7.5	7.1		6.8	6.7		5.9	6		4.9							80
85	6.9	6.5	6.2	7.1	6.7	6.4	7.3	6.8	6.5	6.7	6.5		5.8	5.9		5	5.2						85
90	6.7	6.3	6	6.9	6.5	6.2	7.1	6.6	6.3	6.6	6.3	6	5.8	5.7		5	5.1						90
95	6.4	6.1	5.9	6.7	6.3	6	6.9	6.4	6.1	6.5	6.1	5.9	5.7	5.6	5.4	5	5.1						95
100	6.2	5.9	5.7	6.5	6.1	5.8	6.7	6.3	6	6.3	5.9	5.7	5.7	5.5	5.3	4.9	5	4.9					100
105	6	5.7	5.5	6.3	5.9	5.7	6.5	6.1	5.8	6.2	5.8	5.6	5.6	5.4	5.2	4.9	4.9	4.8					105
110	5.8	5.5	5.4	6.1	5.7	5.5	6.3	5.9	5.6	6	5.6	5.4	5.5	5.2	5.1	4.9	4.8	4.7					110
115	5.6	5.3	5.2	5.9	5.5	5.4	6.1	5.7	5.5	5.8	5.5	5.3	5.4	5.1	4.9	4.8	4.7	4.6					115
120	5.4	5.1	5	5.7	5.4	5.2	5.9	5.5	5.3	5.6	5.3	5.1	5.2	4.9	4.8	4.7	4.6	4.5					120
125	5.2	5	4.9	5.5	5.2	5.1	5.7	5.4	5.2	5.5	5.2	5	5.1	4.8	4.7	4.6	4.5	4.4					125
130	5	4.8	4.7	5.3	5	4.9	5.5	5.2	5.1	5.3	5	4.9	5	4.7	4.6	4.5	4.4	4.3					130
135	4.9	4.7	4.6	5.1	4.9	4.8	5.4	5.1	4.9	5.2	4.9	4.8	4.8	4.6	4.5	4.5	4.3	4.2					135
140	4.7	4.5	4.5	5	4.7	4.7	5.2	4.9	4.8	5	4.8	4.6	4.7	4.5	4.4	4.4	4.2	4.1					140
145	4.6	4.4	4.4	4.8	4.6	4.5	5	4.8	4.7	4.9	4.6	4.5	4.6	4.4	4.3	4.3	4.1	4.1					145
150	4.4	4.3	4.2	4.7	4.5	4.4	4.9	4.6	4.5	4.7	4.5	4.4	4.5	4.3	4.2	4.2	4	4					150
155	4.3	4.1	4.1	4.5	4.4	4.3	4.7	4.5	4.4	4.6	4.4	4.3	4.4	4.2	4.1	4.1	3.9	3.9					155
160	4.1	4	4	4.4	4.2	4.2	4.6	4.4	4.3	4.5	4.3	4.2	4.2	4.1	4	4	3.9	3.8					160
165	4	3.9	3.9	4.3	4.1	4.1	4.5	4.3	4.2	4.3	4.2	4.1	4.1	4	3.9	3.9	3.8	3.8					165
170	3.9	3.8	3.8	4.1	4	4	4.3	4.2	4.1	4.2	4.1	4	4	3.9	3.9	3.8	3.7	3.7					170
175	3.8	3.7	3.8	4	3.9	3.9	4.2	4	4	4.1	4	3.9	3.9	3.8	3.7	3.6	3.6	3.6					175
180	3.7	3.6	3.7	3.9	3.8	3.8	4.1	3.9	4	4	3.9	3.9	3.8	3.7	3.6	3.6	3.5	3.6					180
185	3.6	3.5	3.6	3.8	3.7	3.8	4	3.8	3.9	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.5	3.5					185
190	3.5	3.4	3.5	3.7	3.6	3.7	3.9	3.7	3.8	3.8	3.7	3.7	3.6	3.6	3.6	3.5	3.4	3.4					190
195	3.4	3.4	3.5	3.6	3.5	3.6	3.8	3.7	3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.3	3.3	3.4					195
200	3.3	3.3	3.4	3.5	3.5	3.6	3.7	3.6	3.6	3.6	3.5	3.6	3.5	3.4	3.5	3.2	3.2	3.3					200
205	3.2	3.2		3.4	3.4	3.5	3.6	3.5	3.6	3.5	3.4	3.5	2.9	3.3	3.4		3.1	3.3					205
210	3.1	3.2		3.3	3.3	3.4	3.5	3.4	3.5	3.5	3.4	3.5	3.3	3.3		3.1							210
215	3.1	3.1		3.3	3.2	3.4	3.4	3.3	3.4	3.3	3.3	3.4				3.3							215
220	3	3.1		3.2	3.2		3.3	3.3	3.4	2.8	3.3	3.3											220
225	3	3.1		3.1	3.1		3.2	3.2	3.4		3.1	3.3											225
230	3			3.1	3.1		3.1	3.2		2.4	2.8												230
235				3	3.1		2.8	3				1.8											235
240				3	3.1		2	2.8															240
245				3				1.9															245

t_253_003_50421_00_000

Lifting capacities

Forces de levage



	43 ft + 46 ft			57 ft + 46 ft			72 ft + 46 ft			87 ft + 46 ft			102 ft + 46 ft			116 ft + 46 ft			
	62 ft			62 ft			62 ft												
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
17	8.4																		17
18	8.4																		18
19	8.4			8.4															19
20	8.4			8.4															20
22	8.4			8.4			8.4			8.4									22
24	8.3			8.4			8.4			8.4									24
26	8.3			8.3			8.4			8.4									26
28	8.2			8.3			8.4			8.4			8.4						28
30	8.1			8.2			8.3			8.4			8.4			8.4			30
32	8.1			8.2			8.3			8.3			8.4			8.4			32
34	8			8.1			8.2			8.3			8.4			8.4			34
36	7.9			8.1			8.2			8.3			8.3			8.4			36
38	7.8			8			8.1			8.2			8.3			8.3			38
40	7.7	7.7		7.9			8.1			8.2			8.2			8.3			40
45	7.4	7.5		7.6	7.6		7.9	7.7		8			8.1			8.2			45
50	7	7.1		7.4	7.4		7.6	7.6		7.8	7.7		8	7.7		8.1			50
55	6.6	6.7	6.5	7	7		7.4	7.3		7.6	7.5		7.8	7.6		8	7.7		55
60	6.3	6.4	6.5	6.7	6.7	6.5	7.1	6.9	6.5	7.4	7.2		7.6	7.4		7.8	7.6		60
65	5.9	6	6.2	6.4	6.4	6.4	6.8	6.6	6.5	7.1	6.9	6.5	7.4	7.1		7.6	7.3		65
70	5.6	5.7	5.9	6.1	6.1	6.1	6.5	6.3	6.3	6.8	6.6	6.4	7.1	6.8	6.5	7.4	7	6.5	70
75	5.3	5.4	5.5	5.8	5.8	5.8	6.2	6.1	6	6.5	6.3	6.2	6.8	6.6	6.4	7.1	6.8	6.5	75
80	5	5.1	5.3	5.5	5.5	5.5	5.9	5.8	5.8	6.2	6.1	6	6.6	6.3	6.1	6.9	6.5	6.3	80
85	4.8	4.8	5	5.2	5.2	5.3	5.6	5.5	5.5	6	5.8	5.7	6.3	6.1	5.9	6.6	6.3	6.1	85
90	4.5	4.6	4.7	4.9	5	5	5.4	5.3	5.3	5.7	5.6	5.5	6.1	5.8	5.7	6.4	6.1	5.9	90
95	4.3	4.4	4.5	4.7	4.7	4.8	5.1	5	5.1	5.5	5.3	5.3	5.8	5.6	5.5	6.1	5.9	5.7	95
100	4.1	4.2	4.3	4.5	4.5	4.6	4.9	4.8	4.9	5.3	5.1	5.1	5.6	5.4	5.3	5.9	5.7	5.5	100
105	3.9	4	4.1	4.3	4.3	4.4	4.7	4.6	4.7	5	4.9	4.9	5.4	5.2	5.1	5.7	5.5	5.3	105
110	3.7	3.8	3.9	4.1	4.1	4.2	4.5	4.4	4.5	4.8	4.7	4.7	5.2	5	5	5.5	5.3	5.2	110
115	3.6	3.6	3.8	3.9	4	4.1	4.3	4.3	4.3	4.6	4.6	4.6	5	4.8	4.8	5.3	5.1	5	115
120	3.4	3.5	3.6	3.8	3.8	3.9	4.1	4.1	4.2	4.5	4.4	4.4	4.8	4.7	4.6	5.1	4.9	4.8	120
125	3.3	3.3	3.5	3.6	3.6	3.8	4	3.9	4	4.3	4.2	4.3	4.6	4.5	4.5	4.9	4.7	4.7	125
130	3.1	3.2	3.4	3.5	3.5	3.6	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.3	4.3	4.7	4.6	4.6	130
135	3.1	3.1	3.4	3.3	3.4	3.5	3.7	3.7	3.8	4	3.9	4	4.3	4.2	4.2	4.6	4.4	4.4	135
140	3	3.1		3.2	3.3	3.4	3.5	3.5	3.6	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.3	4.3	140
145				3.1	3.2		3.4	3.4	3.6	3.7	3.7	3.8	4	3.9	4	4.3	4.2	4.2	145
150				3	3.1		3.3	3.3	3.5	3.6	3.6	3.7	3.9	3.8	3.9	4.1	4	4.1	150
155				3	3.1		3.2	3.2		3.5	3.4	3.6	3.7	3.7	3.8	4	3.9	4	155
160					3.1	3.1		3.3	3.3	3.5	3.6	3.6	3.7	3.9	3.8	3.9	3.8	3.9	160
165						3	3.1		3.2	3.3	3.4	3.5	3.5	3.6	3.8	3.7	3.8	3.8	165
170						3	3.1		3.1	3.2	3.4	3.4	3.5	3.7	3.6	3.7	3.7	3.7	170
175									3.1	3.1	3.3	3.3	3.4	3.5	3.5	3.5	3.6	3.6	175
180									3	3.1	3.2	3.2	3.2	3.3	3.4	3.4	3.4	3.5	180
185									3	3.1			3.1	3.1		3.3	3.3	3.5	185
190										3.1	3.1		3.1	3.1		3.2	3.2	3.4	190
195											3	3.1		3.2	3.2				195
200											3			3.1	3.1				200
205																3	3.1		205
210																3	3.1		210
215																3			215

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Lifting capacities

Forces de levage



	131 ft + 46 ft			146 ft + 46 ft			161 ft + 46 ft			176 ft + 46 ft			191 ft + 46 ft			203 ft + 46 ft							
	62 ft			62 ft																			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
34	8.4																						34
36	8.4																						36
38	8.4			7.4																			38
40	8.4			7.6																			40
45	8.3			7.9			7.7																45
50	8.2			8.2			8			6.7													50
55	8.1			8.1			8			6.9			5.4										55
60	7.9	7.6		8.1			7.9			7			5.6			4.4							60
65	7.7	7.5		7.9	7.6		7.8			7			5.8			4.6							65
70	7.5	7.2		7.7	7.4		7.7	7.5		6.9			5.9			4.7							70
75	7.4	7	6.5	7.5	7.1		7.6	7.3		6.8	6.8		5.9			4.8							75
80	7.1	6.7	6.4	7.4	6.9	6.5	7.5	7.1		6.8	6.7		5.9	6		4.9							80
85	6.9	6.5	6.2	7.1	6.7	6.4	7.3	6.8	6.5	6.7	6.5		5.8	5.9		5	5.2						85
90	6.7	6.3	6	6.9	6.5	6.2	7.1	6.6	6.3	6.6	6.3	6	5.8	5.7		5	5.1						90
95	6.4	6.1	5.9	6.7	6.3	6	6.9	6.4	6.1	6.5	6.1	5.9	5.7	5.6	5.4	5	5.1						95
100	6.2	5.9	5.7	6.5	6.1	5.8	6.7	6.3	6	6.3	5.9	5.7	5.7	5.5	5.3	4.9	5	4.9					100
105	6	5.7	5.5	6.3	5.9	5.7	6.5	6.1	5.8	6.2	5.8	5.6	5.6	5.4	5.2	4.9	4.9	4.8					105
110	5.8	5.5	5.4	6.1	5.7	5.5	6.3	5.9	5.6	6	5.6	5.4	5.5	5.2	5.1	4.9	4.8	4.7					110
115	5.6	5.3	5.2	5.9	5.5	5.4	6.1	5.7	5.5	5.8	5.5	5.3	5.4	5.1	4.9	4.8	4.7	4.6					115
120	5.4	5.1	5	5.7	5.4	5.2	5.9	5.5	5.3	5.6	5.3	5.1	5.2	4.9	4.8	4.7	4.6	4.5					120
125	5.2	5	4.9	5.5	5.2	5.1	5.7	5.4	5.2	5.5	5.2	5	5.1	4.8	4.7	4.6	4.5	4.4					125
130	5	4.8	4.7	5.3	5	4.9	5.5	5.2	5.1	5.3	5	4.9	5	4.7	4.6	4.5	4.4	4.3					130
135	4.9	4.7	4.6	5.1	4.9	4.8	5.4	5.1	4.9	5.2	4.9	4.8	4.8	4.6	4.5	4.5	4.3	4.2					135
140	4.7	4.5	4.5	5	4.7	4.7	5.2	4.9	4.8	5	4.8	4.6	4.7	4.5	4.4	4.4	4.2	4.1					140
145	4.6	4.4	4.4	4.8	4.6	4.5	5	4.8	4.7	4.9	4.6	4.5	4.6	4.4	4.3	4.3	4.1	4.1					145
150	4.4	4.3	4.2	4.7	4.5	4.4	4.9	4.6	4.5	4.7	4.5	4.4	4.5	4.3	4.2	4.2	4	4					150
155	4.3	4.1	4.1	4.5	4.4	4.3	4.7	4.5	4.4	4.6	4.4	4.3	4.4	4.2	4.1	4.1	3.9	3.9					155
160	4.1	4	4	4.4	4.2	4.2	4.6	4.4	4.3	4.5	4.3	4.2	4.2	4.1	4	4	3.9	3.8					160
165	4	3.9	3.9	4.3	4.1	4.1	4.5	4.3	4.2	4.3	4.2	4.1	4.1	4	3.9	3.9	3.8	3.8					165
170	3.9	3.8	3.8	4.1	4	4	4.3	4.2	4.1	4.2	4.1	4	4	3.9	3.9	3.8	3.7	3.7					170
175	3.8	3.7	3.8	4	3.9	3.9	4.2	4	4	4.1	4	3.9	3.9	3.8	3.7	3.6	3.6	3.6					175
180	3.7	3.6	3.7	3.9	3.8	3.8	4.1	3.9	4	4	3.9	3.9	3.8	3.7	3.6	3.6	3.5	3.6					180
185	3.6	3.5	3.6	3.8	3.7	3.8	4	3.8	3.9	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.5	3.5					185
190	3.5	3.4	3.5	3.7	3.6	3.7	3.9	3.7	3.8	3.8	3.7	3.7	3.6	3.6	3.6	3.4	3.4	3.4					190
195	3.4	3.4	3.5	3.6	3.5	3.6	3.8	3.7	3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.3	3.3	3.4					195
200	3.3	3.3	3.4	3.5	3.5	3.6	3.7	3.6	3.6	3.6	3.5	3.6	3.5	3.5	3.4	3.5	3.2	3.3					200
205	3.2	3.2		3.4	3.4	3.5	3.6	3.5	3.6	3.5	3.4	3.5	3.3	3.4	3.4	3.3	2.8	3.3					205
210	3.1	3.2		3.3	3.3	3.4	3.5	3.4	3.5	3.5	3.4	3.5	3.2	3.3	3.3	3	2.10						210
215	3.1	3.1		3.3	3.2	3.4	3.4	3.3	3.4	3.1	3.3	3.4				3.2							215
220	3	3.1		3.2	3.2		3.3	3.3	3.4	2.4	3.2	3.3											220
225	3	3.1		3.1	3.1		3.2	3.2	3.4		2.8	3.2											225
230	3			3.1	3.1		3.1	3.2			1.9	2.6											230
235				3	3.1		2.4	3															235
240				3	3.1		2.5																240
245				3																			245

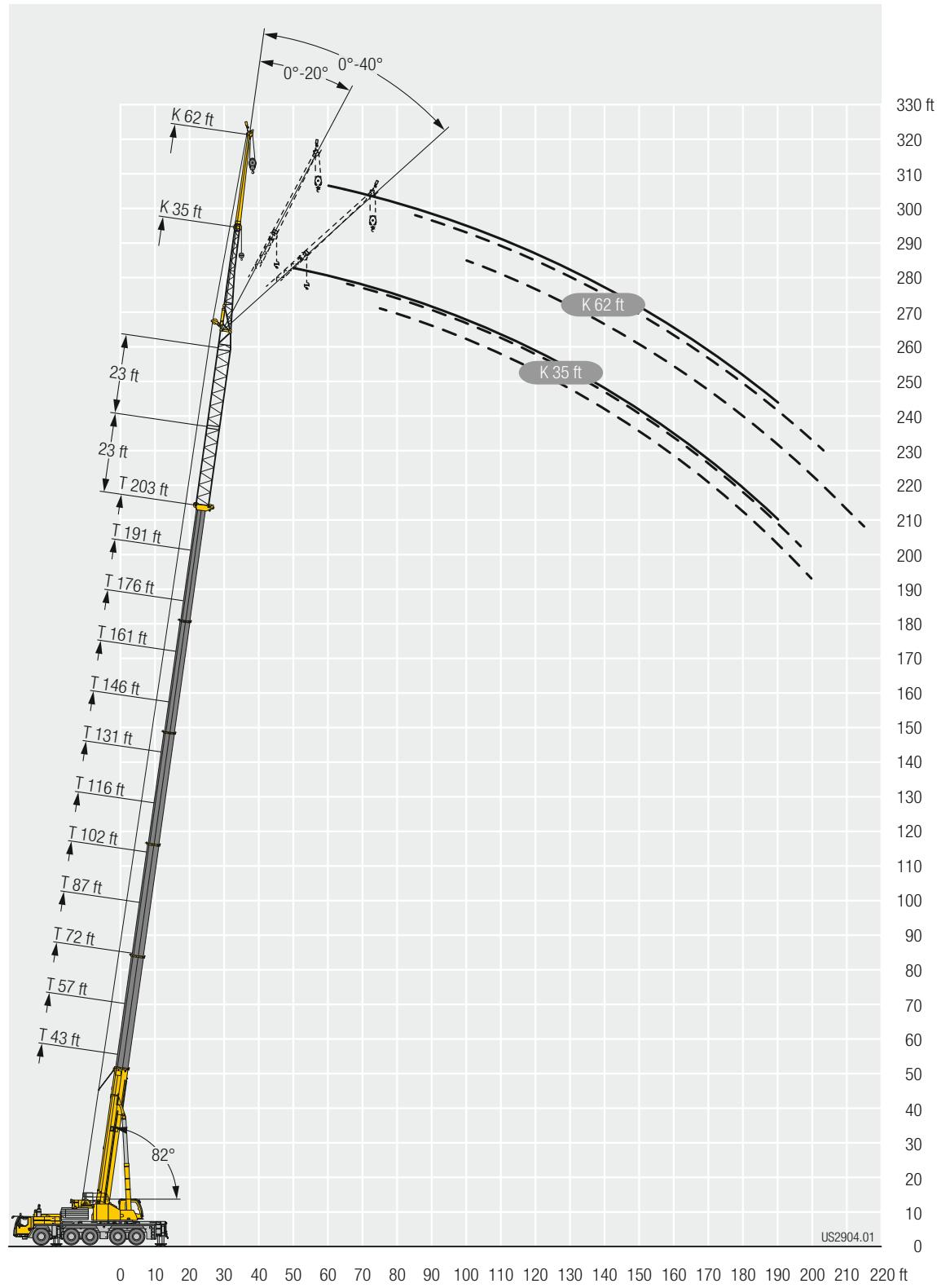
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Lifting heights

Hauteurs de levage



TVNZK



Lifting capacities

Forces de levage



Lift Type	43 ft + 69 ft			57 ft + 69 ft			72 ft + 69 ft			87 ft + 69 ft			102 ft + 69 ft			116 ft + 69 ft			Lift Type	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	6.7																		17	
18	6.8																		18	
19	6.9			6.9															19	
20	7			7															20	
22	7.1			7.2			7												22	
24	7.1			7.3			7.2			7.2									24	
26	7.2			7.3			7.3			7.4			7.4						26	
28	7.2	7.3		7.4			7.4			7.5			7.5						28	
30	7.3	7.5		7.6			7.5			7.7			7.9			7.9			30	
32	7.5	7.7		7.8	7.9		7.7			7.9			8.1			8.3			32	
34	7.5	7.7		7.9	8.1		7.9	8.3		8.1			8.3			8.5			34	
36	7.5	7.7		8.1	8.2		8.1	8.5		8.3	8.6		8.5			8.7			36	
38	7.4	7.6	7.6	8	8.2		8.2	8.6		8.5	8.8		8.7			8.8			38	
40	7.4	7.5	7.7	8	8.1	7.8	8.3	8.6		8.6	8.9		8.8	9.1		9			40	
45	7.1	7.2	7.4	7.8	7.8	8	8.2	8.4	8.3	8.7	8.8	8.3	9	9.2		9.2	9.3		45	
50	6.8	6.8	7	7.5	7.5	7.6	8.1	8.1	8.1	8.6	8.5	8.4	8.8	8.8	8.5	9.1	9		50	
55	6.3	6.4	6.6	7.2	7.1	7.2	7.8	7.7	7.7	8.2	8.1	8	8.5	8.4	8.3	8.8	8.7	8.5	55	
60	5.9	6	6.2	6.8	6.7	6.9	7.4	7.3	7.3	7.8	7.7	7.6	8.2	8	7.9	8.5	8.3	8.1	60	
65	5.6	5.6	5.8	6.4	6.4	6.5	7	6.9	6.9	7.5	7.3	7.2	7.8	7.6	7.5	8.2	7.9	7.8	65	
70	5.2	5.3	5.5	6	6	6.1	6.6	6.5	6.5	7.1	6.9	6.9	7.5	7.3	7.2	7.8	7.6	7.4	70	
75	4.8	4.9	5.1	5.6	5.6	5.8	6.3	6.2	6.2	6.7	6.6	6.5	7.1	6.9	6.8	7.5	7.3	7.1	75	
80	4.5	4.5	4.7	5.3	5.3	5.4	5.9	5.9	5.9	6.4	6.3	6.2	6.8	6.6	6.5	7.2	6.9	6.8	80	
85	4.2	4.3	4.4	5	5	5.1	5.6	5.6	5.6	6.1	6	5.9	6.5	6.3	6.2	6.9	6.6	6.5	85	
90	3.9	4	4.1	4.7	4.7	4.8	5.3	5.2	5.3	5.7	5.7	5.6	6.2	6	6	6.6	6.4	6.3	90	
95	3.6	3.7	3.8	4.4	4.4	4.5	5	5	5	5.5	5.4	5.4	5.9	5.8	5.7	6.3	6.1	6	95	
100	3.4	3.4	3.6	4.1	4.1	4.2	4.7	4.7	4.8	5.2	5.1	5.1	5.6	5.5	5.5	6	5.8	5.7	100	
105	3.2	3.2	3.3	3.9	3.9	4	4.5	4.5	4.5	4.9	4.9	4.9	5.3	5.2	5.2	5.7	5.6	5.5	105	
110	3	3	3.1	3.6	3.6	3.7	4.3	4.3	4.3	4.7	4.6	4.6	5.1	5	5	5.5	5.3	5.3	110	
115	2.9	2.8	3	3.4	3.4	3.5	4	4	4.1	4.5	4.4	4.4	4.8	4.8	4.8	5.2	5.1	5.1	115	
120	2.7	2.7	2.8	3.3	3.3	3.3	3.8	3.8	3.9	4.2	4.2	4.2	4.6	4.6	4.6	5	4.9	4.9	120	
125	2.6	2.6	2.7	3.1	3.1	3.2	3.6	3.6	3.7	4	4	4.1	4.4	4.4	4.4	4.8	4.7	4.7	125	
130	2.6	2.6	2.7	2.9	2.9		3.4	3.5	3.5	3.9	3.8	3.9	4.2	4.2	4.2	4.6	4.5	4.5	130	
135	2.6	2.5	2.7	2.8	2.8		3.3	3.3	3.3	3.7	3.7	3.7	4	4	4	4.4	4.3	4.3	135	
140	2.6	2.5		2.8	2.7		3.1	3.1	3.2	3.5	3.5	3.6	3.9	3.8	3.9	4.2	4.1	4.2	140	
145				2.7	2.7		3	3		3.4	3.4	3.4	3.7	3.7	3.7	4	4	4	145	
150				2.6	2.7		2.9	2.9		3.2	3.2	3.3	3.6	3.5	3.6	3.9	3.8	3.9	150	
155				2.6			2.8	2.8		3.1	3.1		3.4	3.4	3.4	3.7	3.7	3.7	155	
160					2.7	2.7		3	3		3.3	3.3	3.3	3.6	3.6	3.6	3.6	3.6	160	
165						2.6			2.9	2.9		3.1	3.1		3.5	3.4	3.5		165	
170						2.6			2.8	2.8		3	3		3.3	3.3	3.3		170	
175									2.7	2.7		2.9	2.9		3.2	3.2	3.2		175	
180									2.6			2.8	2.8		3.1	3.1			180	
185										2.6			2.7						185	
190											2.6		2.7			2.9	2.9		190	
195												2.6			2.8	2.8			195	
200													2.7			2.7			200	
205														2.6		2.7			205	
210															2.6		2.6		210	

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Lifting capacities

Forces de levage



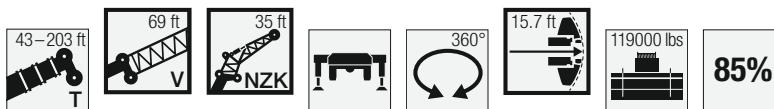
85% TVNZK

	131 ft + 69 ft			146 ft + 69 ft			161 ft + 69 ft			176 ft + 69 ft			191 ft + 69 ft			203 ft + 69 ft							
	35 ft			35 ft																			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
34	8.6																					34	
36	8.8																					36	
38	9			9.1																		38	
40	9.1			9.3																		40	
45	9.3			9.4			8.2						6.8										45
50	9.2	9.2		9.3	9.3		8.3																50
55	9	8.9	8.5	9.1	9.1		8.2	8.3		7			5.3				4						55
60	8.7	8.6	8.3	9	8.8	8.5	8.1	8.1		7.1	7.2		5.5				4.1						60
65	8.4	8.2	8	8.7	8.5	8.2	8	8	7.8	7	7.1		5.6	5.8		4.3							65
70	8.1	7.9	7.7	8.4	8.1	7.9	7.8	7.7	7.6	6.9	7	7	5.7	5.9		4.4	4.6						70
75	7.9	7.6	7.4	8.1	7.8	7.6	7.6	7.5	7.3	6.8	6.9	6.8	5.8	5.9	6	4.5	4.7						75
80	7.5	7.2	7.1	7.9	7.5	7.3	7.4	7.2	7	6.7	6.7	6.6	5.7	5.8	5.9	4.6	4.8	5					80
85	7.2	6.9	6.8	7.6	7.2	7	7.3	7	6.8	6.6	6.5	6.4	5.7	5.8	5.8	4.7	4.8	5					85
90	6.9	6.7	6.5	7.3	7	6.8	7	6.8	6.6	6.5	6.3	6.2	5.6	5.6	5.7	4.7	4.9	5					90
95	6.6	6.4	6.3	7	6.7	6.5	6.8	6.5	6.4	6.3	6.1	6	5.5	5.5	5.5	4.8	4.8	4.9					95
100	6.4	6.1	6	6.7	6.4	6.3	6.5	6.3	6.1	6.1	5.9	5.8	5.4	5.4	5.3	4.7	4.7	4.8					100
105	6.1	5.9	5.8	6.4	6.2	6.1	6.3	6.1	5.9	5.9	5.7	5.6	5.4	5.2	5.2	4.7	4.7	4.7					105
110	5.9	5.7	5.6	6.2	6	5.8	6.1	5.8	5.7	5.6	5.5	5.2	5.1	5	4.6	4.6	4.6						110
115	5.6	5.4	5.4	6	5.7	5.6	5.8	5.6	5.6	5.5	5.4	5.3	5.1	4.9	4.9	4.5	4.5	4.5					115
120	5.4	5.2	5.2	5.7	5.5	5.4	5.6	5.4	5.4	5.4	5.2	5.1	4.9	4.8	4.7	4.4	4.4	4.4					120
125	5.1	5	5	5.5	5.3	5.2	5.4	5.2	5.2	5.2	5	4.9	4.8	4.6	4.6	4.3	4.3	4.2					125
130	4.9	4.8	4.8	5.3	5.1	5.1	5.2	5.1	5	5	4.9	4.8	4.6	4.5	4.5	4.2	4.2	4.1					130
135	4.7	4.6	4.6	5.1	4.9	4.9	5	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.1	4	4					135
140	4.6	4.5	4.4	4.9	4.8	4.7	4.9	4.7	4.7	4.7	4.6	4.5	4.4	4.2	4.2	4	3.9	3.9					140
145	4.4	4.3	4.3	4.7	4.6	4.5	4.7	4.6	4.5	4.5	4.4	4.4	4.2	4.1	4.1	3.9	3.8	3.8					145
150	4.2	4.1	4.1	4.5	4.4	4.4	4.5	4.4	4.4	4.4	4.3	4.2	4.1	4	4	3.8	3.7	3.7					150
155	4	4	4	4.4	4.3	4.2	4.4	4.3	4.2	4.2	4.1	4.1	4	3.9	3.9	3.7	3.6	3.6					155
160	3.9	3.8	3.8	4.2	4.1	4.1	4.2	4.1	4.1	4.1	4	4	3.9	3.8	3.8	3.6	3.6	3.6					160
165	3.8	3.7	3.7	4	4	4	4.1	4	4	4	3.9	3.9	3.7	3.7	3.7	3.5	3.4	3.5					165
170	3.6	3.6	3.6	3.9	3.8	3.8	3.9	3.9	3.8	3.8	3.8	3.8	3.6	3.6	3.6	3.4	3.4	3.4					170
175	3.5	3.4	3.5	3.8	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.7	3.5	3.5	3.5	3.3	3.3	3.3					175
180	3.4	3.3	3.4	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.6	3.4	3.4	3.4	3.2	3.2	3.2					180
185	3.2	3.2	3.2	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.4	3.5	3.3	3.3	3.3	3.1	3.1	3.1					185
190	3.1	3.1		3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.4	3.3	3.2	3.2	3	3.1	3.1					190
195	3	3		3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.1	3.2	3.1				3				195
200	2.9	2.9		3.2	3.1		3.2	3.2	3.2	3.2	3.2	3.2	3.1										200
205	2.9	2.9		3.1	3		3.1	3.1	3.1	2.9	3.1	3.1											205
210	2.8	2.8		3	3		3	3	3.1	2.8	3												210
215	2.7	2.7		2.9	2.9		2.9	2.9															215
220	2.6	2.7		2.8	2.8		2.7	2.8															220
225	2.6			2.7	2.7		2	2.5															225
230				2.7	2.7																		230
235				2.6																			235
240				2.2																			240

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Lifting capacities

Forces de levage



TVNZK

Lift height (ft)	43 ft + 69 ft			57 ft + 69 ft			72 ft + 69 ft			87 ft + 69 ft			102 ft + 69 ft			116 ft + 69 ft			Lift height (ft)	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
17	6.7																		17	
18	6.8																		18	
19	6.9			6.9															19	
20	7			7															20	
22	7.1			7.2			7												22	
24	7.1			7.3			7.2			7.2									24	
26	7.2			7.3			7.3			7.4			7.4						26	
28	7.2	7.3		7.4			7.4			7.5			7.5						28	
30	7.3	7.5		7.6			7.5			7.7			7.9			7.9			30	
32	7.5	7.7		7.8	7.9		7.7			7.9			8.1			8.3			32	
34	7.5	7.7		7.9	8.1		7.9	8.3		8.1			8.3			8.5			34	
36	7.5	7.7		8.1	8.2		8.1	8.5		8.3	8.6		8.5			8.7			36	
38	7.4	7.6	7.6	8	8.2		8.2	8.6		8.5	8.8		8.7			8.8			38	
40	7.4	7.5	7.7	8	8.1	7.8	8.3	8.6		8.6	8.9		8.8	9.1		9			40	
45	7.1	7.2	7.4	7.8	7.8	8	8.2	8.4	8.3	8.7	8.8	8.3	9	9.2		9.2	9.3		45	
50	6.8	6.8	7	7.5	7.5	7.6	8.1	8.1	8.1	8.6	8.5	8.4	8.8	8.8	8.5	9.1	9		50	
55	6.3	6.4	6.6	7.2	7.1	7.2	7.8	7.7	7.7	8.2	8.1	8	8.5	8.4	8.3	8.8	8.7	8.5	55	
60	5.9	6	6.2	6.8	6.7	6.9	7.4	7.3	7.3	7.8	7.7	7.6	8.2	8	7.9	8.5	8.3	8.1	60	
65	5.6	5.6	5.8	6.4	6.4	6.5	7	6.9	6.9	7.5	7.3	7.2	7.8	7.6	7.5	8.2	7.9	7.8	65	
70	5.2	5.3	5.5	6	6	6.1	6.6	6.5	6.5	7.1	6.9	6.9	7.5	7.3	7.2	7.8	7.6	7.4	70	
75	4.8	4.9	5.1	5.6	5.6	5.8	6.3	6.2	6.2	6.7	6.6	6.5	7.1	6.9	6.8	7.5	7.3	7.1	75	
80	4.5	4.5	4.7	5.3	5.3	5.4	5.9	5.9	5.9	6.4	6.3	6.2	6.8	6.6	6.5	7.2	6.9	6.8	80	
85	4.2	4.3	4.4	5	5	5.1	5.6	5.6	5.6	6.1	6	5.9	6.5	6.3	6.2	6.9	6.6	6.5	85	
90	3.9	4	4.1	4.7	4.7	4.8	5.3	5.2	5.3	5.7	5.7	5.6	6.2	6	6	6.6	6.4	6.3	90	
95	3.6	3.7	3.8	4.4	4.4	4.5	5	5	5	5.5	5.4	5.4	5.9	5.8	5.7	6.3	6.1	6	95	
100	3.4	3.4	3.6	4.1	4.1	4.2	4.7	4.7	4.8	5.2	5.1	5.1	5.6	5.5	5.5	6	5.8	5.7	100	
105	3.2	3.2	3.3	3.9	3.9	4	4.5	4.5	4.5	4.9	4.9	4.9	5.3	5.2	5.2	5.7	5.6	5.5	105	
110	3	3	3.1	3.6	3.6	3.7	4.3	4.3	4.3	4.7	4.6	4.6	5.1	5	5	5.5	5.3	5.3	110	
115	2.9	2.8	3	3.4	3.4	3.5	4	4	4.1	4.5	4.4	4.4	4.8	4.8	4.8	5.2	5.1	5.1	115	
120	2.7	2.7	2.8	3.3	3.3	3.3	3.8	3.8	3.9	4.2	4.2	4.2	4.6	4.6	4.6	5	4.9	4.9	120	
125	2.6	2.6	2.7	3.1	3.1	3.2	3.6	3.6	3.7	4	4	4.1	4.4	4.4	4.4	4.8	4.7	4.7	125	
130	2.6	2.6	2.7	2.9	2.9		3.4	3.5	3.5	3.9	3.8	3.9	4.2	4.2	4.2	4.6	4.5	4.5	130	
135	2.6	2.5	2.7	2.8	2.8		3.3	3.3	3.3	3.7	3.7	3.7	4	4	4	4.4	4.3	4.3	135	
140	2.6	2.5		2.8	2.7		3.1	3.1	3.2	3.5	3.5	3.6	3.9	3.8	3.9	4.2	4.1	4.2	140	
145				2.7	2.7		3	3		3.4	3.4	3.4	3.7	3.7	3.7	4	4	4	145	
150				2.6	2.7		2.9	2.9		3.2	3.2	3.3	3.6	3.5	3.6	3.9	3.8	3.9	150	
155				2.6			2.8	2.8		3.1	3.1		3.4	3.4	3.4	3.7	3.7	3.7	155	
160					2.7	2.7		3	3		3.3	3.3	3.3	3.6	3.6	3.6	3.6	3.6	160	
165						2.6			2.9	2.9		3.1	3.1		3.5	3.4	3.5		165	
170						2.6			2.8	2.8		3	3		3.3	3.3	3.3		170	
175									2.7	2.7		2.9	2.9		3.2	3.2	3.2		175	
180									2.6			2.8	2.8		3.1	3.1			180	
185										2.6			2.7						185	
190											2.6		2.7			2.9	2.9		190	
195												2.6			2.8	2.8			195	
200													2.7			2.7			200	
205														2.6		2.7			205	
210															2.6		2.6		210	

t_253_003_50199_00_000

Lifting capacities

Forces de levage



TVNZK

Lift capacity	131 ft + 69 ft			146 ft + 69 ft			161 ft + 69 ft			176 ft + 69 ft			191 ft + 69 ft			203 ft + 69 ft			Lift capacity	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
34	8.6																		34	
36	8.8																		36	
38	9			9.1															38	
40	9.1			9.3															40	
45	9.3			9.4			8.2												45	
50	9.2	9.2		9.3	9.3		8.3			6.8									50	
55	9	8.9	8.5	9.1	9.1		8.2	8.3		7			5.3			4			55	
60	8.7	8.6	8.3	9	8.8	8.5	8.1	8.1		7.1	7.2		5.5			4.1			60	
65	8.4	8.2	8	8.7	8.5	8.2	8	8	7.8	7	7.1		5.6	5.8		4.3			65	
70	8.1	7.9	7.7	8.4	8.1	7.9	7.8	7.7	7.6	6.9	7	7	5.7	5.9		4.4	4.6		70	
75	7.9	7.6	7.4	8.1	7.8	7.6	7.6	7.5	7.3	6.8	6.9	6.8	5.8	5.9	6	4.5	4.7		75	
80	7.5	7.2	7.1	7.9	7.5	7.3	7.4	7.2	7	6.7	6.7	6.6	5.7	5.8	5.9	4.6	4.8	5	80	
85	7.2	6.9	6.8	7.6	7.2	7	7.3	7	6.8	6.6	6.5	6.4	5.7	5.8	5.8	4.7	4.8	5	85	
90	6.9	6.7	6.5	7.3	7	6.8	7	6.8	6.6	6.5	6.3	6.2	5.6	5.6	5.7	4.7	4.9	5	90	
95	6.6	6.4	6.3	7	6.7	6.5	6.8	6.5	6.4	6.3	6.1	6	5.5	5.5	5.5	4.8	4.8	4.9	95	
100	6.4	6.1	6	6.7	6.4	6.3	6.5	6.3	6.1	6.1	5.9	5.8	5.4	5.4	5.3	4.7	4.7	4.8	100	
105	6.1	5.9	5.8	6.4	6.2	6.1	6.3	6.1	5.9	5.9	5.7	5.6	5.4	5.2	5.2	4.7	4.7	4.7	105	
110	5.9	5.7	5.6	6.2	6	5.8	6.1	5.8	5.7	5.6	5.5	5.2	5.1	5	4.6	4.6	4.6	110		
115	5.6	5.4	5.4	6	5.7	5.6	5.8	5.6	5.6	5.5	5.4	5.3	5.1	4.9	4.9	4.5	4.5	4.5	115	
120	5.4	5.2	5.2	5.7	5.5	5.4	5.6	5.4	5.4	5.4	5.2	5.1	4.9	4.8	4.7	4.4	4.4	4.4	120	
125	5.1	5	5	5.5	5.3	5.2	5.4	5.2	5.2	5.2	5	4.9	4.8	4.6	4.6	4.3	4.3	4.2	125	
130	4.9	4.8	4.8	5.3	5.1	5.1	5.2	5.1	5	5	4.9	4.8	4.6	4.5	4.5	4.2	4.2	4.1	130	
135	4.7	4.6	4.6	5.1	4.9	4.9	5	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.1	4	4	135	
140	4.6	4.5	4.4	4.9	4.8	4.7	4.9	4.7	4.7	4.7	4.6	4.5	4.4	4.2	4.2	4	3.9	3.9	140	
145	4.4	4.3	4.3	4.7	4.6	4.5	4.7	4.6	4.5	4.5	4.4	4.4	4.2	4.1	4.1	3.9	3.8	3.8	145	
150	4.2	4.1	4.1	4.5	4.4	4.4	4.5	4.4	4.4	4.4	4.3	4.2	4.1	4	4	3.8	3.7	3.7	150	
155	4	4	4	4.4	4.3	4.2	4.4	4.3	4.2	4.2	4.1	4.1	4	3.9	3.9	3.7	3.6	3.6	155	
160	3.9	3.8	3.8	4.2	4.1	4.1	4.2	4.1	4.1	4.1	4	4	3.9	3.8	3.8	3.6	3.6	3.6	160	
165	3.8	3.7	3.7	4	4	4	4.1	4	4	4	3.9	3.9	3.7	3.7	3.7	3.5	3.4	3.5	165	
170	3.6	3.6	3.6	3.9	3.8	3.8	3.9	3.9	3.8	3.8	3.8	3.8	3.6	3.6	3.6	3.4	3.4	3.4	170	
175	3.5	3.4	3.5	3.8	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.7	3.5	3.5	3.5	3.3	3.3	3.3	175	
180	3.4	3.3	3.4	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.6	3.4	3.4	3.4	3.2	3.2	3.2	180	
185	3.2	3.2	3.2	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.4	3.5	3.3	3.3	3.3	3.1	3.1	3.1	185	
190	3.1	3.1		3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.4	3.3	3.2	3.2	3	3.1	190		
195	3	3		3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.1	3.2		3		195		
200	2.9	2.9		3.2	3.1		3.2	3.2	3.2	3.1	3.2	3.2		3.1				200		
205	2.9	2.9		3.1	3		3.1	3.1	3.1	2.7	3	3.1						205		
210	2.8	2.8		3	3		3	3	3.1	2.7	2.9							210		
215	2.7	2.7		2.9	2.9		2.8	2.9				2.3						215		
220	2.6	2.7		2.8	2.8		2.6	2.8										220		
225	2.6			2.7	2.7				2.4									225		
230				2.7	2.7													230		
235				2.6														235		
240				1.8														240		

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Lifting capacities

Forces de levage



TVNZK

	43 ft + 69 ft			57 ft + 69 ft			72 ft + 69 ft			87 ft + 69 ft			102 ft + 69 ft			116 ft + 69 ft				
	62 ft			62 ft			62 ft													
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
22	6.7																		22	
24	6.7			6.7														24		
26	6.6			6.7			6.7											26		
28	6.5			6.6			6.7			6.7								28		
30	6.5			6.6			6.6			6.7								30		
32	6.4			6.5			6.6			6.7			6.7					32		
34	6.4			6.5			6.5			6.6			6.7					34		
36	6.3			6.4			6.5			6.6			6.6			6.7		36		
38	6.3			6.4			6.4			6.5			6.6			6.6		38		
40	6.2			6.3			6.4			6.5			6.5			6.6		40		
45	6	6.3		6.1			6.3			6.3			6.4			6.5		45		
50	5.8	6.1		6	6.3		6.1	6.3		6.2			6.3			6.4		50		
55	5.5	5.8		5.8	6		5.9	6.2		6.1	6.3		6.2	6.3		6.3		55		
60	5.2	5.4	5.4	5.6	5.7		5.8	5.9		5.9	6.1		6.1	6.2		6.2	6.3	60		
65	4.9	5.1	5.3	5.2	5.4	5.4	5.6	5.6	5.4	5.8	5.8		5.9	6		6	6.1	65		
70	4.5	4.7	5	4.9	5	5.2	5.3	5.3	5.3	5.6	5.5	5.4	5.8	5.7	5.4	5.9	5.9	70		
75	4.3	4.5	4.7	4.6	4.7	4.9	5	5	5.1	5.3	5.3	5.2	5.6	5.5	5.3	5.8	5.7	75		
80	4	4.2	4.4	4.4	4.5	4.6	4.7	4.7	4.8	5	5	5	5.3	5.2	5.1	5.6	5.4	80		
85	3.7	3.9	4.1	4.1	4.2	4.4	4.4	4.5	4.6	4.8	4.7	4.8	5.1	5	4.9	5.4	5.2	85		
90	3.5	3.7	3.9	3.9	4	4.1	4.2	4.3	4.3	4.5	4.5	4.5	4.8	4.7	4.7	5.1	5	4.9		
95	3.3	3.4	3.6	3.6	3.7	3.9	4	4	4.1	4.3	4.3	4.3	4.6	4.5	4.5	4.9	4.7	95		
100	3.1	3.2	3.4	3.4	3.5	3.7	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.3	4.3	4.6	4.5	100		
105	2.9	3	3.2	3.2	3.3	3.5	3.6	3.6	3.7	3.9	3.9	3.9	4.2	4.1	4.1	4.4	4.3	105		
110	2.7	2.8	3	3	3.1	3.2	3.4	3.4	3.5	3.7	3.7	3.7	4	3.9	3.9	4.2	4.1	110		
115	2.5	2.7	2.8	2.9	3	3.1	3.2	3.2	3.3	3.5	3.5	3.6	3.8	3.7	3.8	4.1	4	115		
120	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.1	3.3	3.3	3.4	3.6	3.6	3.6	3.9	3.8	120		
125	2.2	2.3	2.5	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.2	3.4	3.4	3.4	3.7	3.6	125		
130	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8	3	3	3.1	3.2	3.2	3.3	3.5	3.5	130		
135	2	2	2.2	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.1	3.1	3.1	3.4	3.3	135		
140	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.5	2.7	2.7	2.8	2.9	3	3	3.2	3.2	140		
145	1.7	1.8	1.9	2	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.8	2.8	2.9	3.1	3	145		
150	1.6	1.7	1.8	1.9	1.9	2	2.1	2.2	2.3	2.4	2.5	2.5	2.7	2.7	2.7	2.9	2.9	150		
155	1.5	1.6	1.7	1.8	1.8	1.9	2	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.8	2.8	155		
160	1.5	1.5	1.7	1.7	1.7	1.8	1.9	2	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.7	2.7	160		
165	1.4	1.5		1.6	1.7		1.8	1.9	2	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.5	165		
170				1.5	1.6		1.7	1.8	1.9	2	2	2.1	2.2	2.2	2.3	2.4	2.4	170		
175				1.5	1.5		1.7	1.7		1.9	1.9	2	2.1	2.1	2.2	2.3	2.3	175		
180				1.4			1.6	1.6		1.8	1.8	1.9	2	2	2.1	2.2	2.2	180		
185							1.5	1.6		1.7	1.7	1.8	1.9	1.9	2	2.1	2.1	185		
190							1.5	1.5		1.6	1.7		1.8	1.9	1.9	2	2	190		
195							1.4			1.6	1.6		1.7	1.8	1.8	1.9	2	195		
200										1.5	1.5		1.7	1.7		1.9	1.9	1.9	200	
205										1.5	1.5		1.6			1.8	1.8	1.9	205	
210										1.4			1.5	1.6		1.7	1.7	1.8	210	
215													1.5	1.5		1.7	1.7	215		
220													1.5	1.5		1.6	1.6	220		
225																		225		
230																1.5	1.5	230		
235																1.4	1.5	235		
240																1.4		240		

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Lifting capacities

Forces de levage



TVNZK

Lift Capacity (T)	131 ft + 69 ft			146 ft + 69 ft			161 ft + 69 ft			176 ft + 69 ft			191 ft + 69 ft			203 ft + 69 ft			Lift Capacity (T)	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
38	6.7																		38	
40	6.7																		40	
45	6.6			5.4															45	
50	6.4			5.7			4.6												50	
55	6.4			5.8			4.9			3.9									55	
60	6.3			6			5			3.9			3.1						60	
65	6.1	6.3		6.1			5.1			4.1			3.1			2.5			65	
70	6	6		6.1	6.2		5.2			4.2			3.1			2.6			70	
75	5.9	5.8		6	6		5.3	5.5		4.3			3.2			2.6			75	
80	5.8	5.6	5.3	5.9	5.8		5.3	5.4		4.3	4.6		3.2			2.6			80	
85	5.6	5.4	5.2	5.8	5.5	5.3	5.3	5.3		4.4	4.6		3.3	3.5		2.6			85	
90	5.4	5.2	5	5.6	5.3	5.1	5.2	5.1	5	4.4	4.6		3.4	3.6		2.6	2.8		90	
95	5.1	4.9	4.8	5.4	5.1	5	5.1	4.9	4.8	4.5	4.6	4.5	3.4	3.6		2.6	2.8		95	
100	4.9	4.7	4.6	5.2	4.9	4.8	5	4.8	4.6	4.5	4.4	4.3	3.5	3.6	3.8	2.7	2.9		100	
105	4.7	4.5	4.5	5	4.7	4.6	4.8	4.6	4.5	4.4	4.3	4.2	3.5	3.6	3.7	2.7	2.9	3.1	105	
110	4.5	4.4	4.3	4.8	4.5	4.4	4.6	4.4	4.3	4.3	4.1	4.1	3.5	3.6	3.6	2.8	3	3.1	110	
115	4.3	4.2	4.1	4.5	4.4	4.3	4.4	4.3	4.1	4.1	4	3.9	3.5	3.5	3.5	2.8	2.9	3.1	115	
120	4.1	4	4	4.4	4.2	4.1	4.3	4.1	4	4	3.9	3.8	3.4	3.4	3.4	2.8	2.9	3	120	
125	4	3.8	3.8	4.2	4	4	4.1	4	3.9	3.9	3.8	3.7	3.4	3.3	3.3	2.8	2.9	3	125	
130	3.8	3.7	3.7	4	3.9	3.8	3.9	3.8	3.7	3.7	3.6	3.6	3.3	3.3	3.2	2.8	2.9	2.9	130	
135	3.6	3.5	3.5	3.9	3.7	3.7	3.8	3.7	3.6	3.6	3.5	3.5	3.2	3.2	3.1	2.7	2.8	2.8	135	
140	3.5	3.4	3.4	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.4	3.3	3.1	3.1	3	2.7	2.7	2.7	140	
145	3.3	3.2	3.2	3.6	3.4	3.4	3.5	3.4	3.4	3.4	3.2	3.2	3	2.9	2.9	2.6	2.6	2.7	145	
150	3.2	3.1	3.1	3.4	3.3	3.3	3.4	3.3	3.2	3.2	3.1	3.1	2.9	2.8	2.9	2.6	2.6	2.6	150	
155	3	3	3	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3	3	2.8	2.7	2.8	2.5	2.5	2.5	155	
160	2.9	2.9	2.9	3.1	3.1	3	3.1	3	3	3	2.9	2.9	2.7	2.6	2.7	2.4	2.4	2.4	160	
165	2.8	2.7	2.8	3	3	2.9	3	2.9	2.9	2.9	2.8	2.8	2.6	2.5	2.6	2.4	2.3	2.3	165	
170	2.7	2.6	2.7	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.5	2.4	2.5	2.3	2.2	2.3	170	
175	2.5	2.5	2.6	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.6	2.6	2.4	2.4	2.4	2.2	2.2	2.2	175	
180	2.4	2.4	2.5	2.7	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.3	2.3	2.3	2.1	2.1	2.1	180	
185	2.3	2.3	2.4	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.4	2.4	2.2	2.2	2.3	2	2	2.1	185	
190	2.2	2.2	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.2	1.9	2		190	
195	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2	2.1		1.9	1.9		195	
200	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	1.9	2		1.8	1.9		200	
205	2	2	2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9					205	
210	1.9	1.9	2	2	2	2	2	2	2	2	2	2	1.9	1.9					210	
215	1.8	1.8	1.9	1.9	1.9	2	2	1.9	2		1.9	1.9							215	
220	1.7	1.7	1.8	1.8	1.8	1.9	1.8	1.8	1.9		1.9								220	
225	1.7	1.7		1.8	1.7	1.8	1.6	1.8	1.9		1.8								225	
230	1.6	1.6		1.7	1.7	1.8	1.3	1.7	1.8										230	
235	1.6	1.6		1.6	1.6				1.6										235	
240	1.5	1.5		1.5	1.6														240	
245	1.5	1.5		1.3	1.5														245	
250	1.4	1.5			1.3														250	
255	1.4																		255	

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Lifting capacities

Forces de levage



TVNZK

Lift Capacity	43 ft + 69 ft			57 ft + 69 ft			72 ft + 69 ft			87 ft + 69 ft			102 ft + 69 ft			116 ft + 69 ft			Lift Capacity	
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
22	6.7																		22	
24	6.7			6.7															24	
26	6.6			6.7			6.7												26	
28	6.5			6.6			6.7			6.7									28	
30	6.5			6.6			6.6			6.7									30	
32	6.4			6.5			6.6			6.7			6.7						32	
34	6.4			6.5			6.5			6.6			6.7						34	
36	6.3			6.4			6.5			6.6			6.6			6.7			36	
38	6.3			6.4			6.4			6.5			6.6			6.6			38	
40	6.2			6.3			6.4			6.5			6.5			6.6			40	
45	6	6.3		6.1			6.3			6.3			6.4			6.5			45	
50	5.8	6.1		6	6.3		6.1	6.3		6.2			6.3			6.4			50	
55	5.5	5.8		5.8	6		5.9	6.2		6.1	6.3		6.2	6.3		6.3			55	
60	5.2	5.4	5.4	5.6	5.7		5.8	5.9		5.9	6.1		6.1	6.2		6.2	6.3		60	
65	4.9	5.1	5.3	5.2	5.4	5.4	5.6	5.6	5.4	5.8	5.8		5.9	6		6	6.1		65	
70	4.5	4.7	5	4.9	5	5.2	5.3	5.3	5.3	5.6	5.5	5.4	5.8	5.7	5.4	5.9	5.9		70	
75	4.3	4.5	4.7	4.6	4.7	4.9	5	5	5.1	5.3	5.3	5.2	5.6	5.5	5.3	5.8	5.7	5.4	75	
80	4	4.2	4.4	4.4	4.5	4.6	4.7	4.7	4.8	5	5	5	5.3	5.2	5.1	5.6	5.4	5.3	80	
85	3.7	3.9	4.1	4.1	4.2	4.4	4.4	4.5	4.6	4.8	4.7	4.8	5.1	5	4.9	5.4	5.2	5.1	85	
90	3.5	3.7	3.9	3.9	4	4.1	4.2	4.3	4.3	4.5	4.5	4.5	4.8	4.7	4.7	5.1	5	4.9	90	
95	3.3	3.4	3.6	3.6	3.7	3.9	4	4	4.1	4.3	4.3	4.3	4.6	4.5	4.5	4.9	4.7	4.7	95	
100	3.1	3.2	3.4	3.4	3.5	3.7	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.3	4.3	4.6	4.5	4.5	100	
105	2.9	3	3.2	3.2	3.3	3.5	3.6	3.6	3.7	3.9	3.9	3.9	4.2	4.1	4.1	4.4	4.3	4.3	105	
110	2.7	2.8	3	3	3.1	3.2	3.4	3.4	3.5	3.7	3.7	3.7	4	3.9	3.9	4.2	4.1	4.1	110	
115	2.5	2.7	2.8	2.9	3	3.1	3.2	3.2	3.3	3.5	3.5	3.6	3.8	3.7	3.8	4.1	4	3.9	115	
120	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.1	3.3	3.3	3.4	3.6	3.6	3.6	3.9	3.8	3.8	120	
125	2.2	2.3	2.5	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.2	3.4	3.4	3.4	3.7	3.6	3.6	125	
130	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8	3	3	3.1	3.2	3.2	3.3	3.5	3.5	3.5	130	
135	2	2	2.2	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.1	3.1	3.1	3.4	3.3	3.3	135	
140	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.5	2.7	2.7	2.8	2.9	3	3	3.2	3.2	3.2	140	
145	1.7	1.8	1.9	2	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.8	2.8	2.9	3.1	3	3	145	
150	1.6	1.7	1.8	1.9	1.9	2	2.1	2.2	2.3	2.4	2.5	2.5	2.7	2.7	2.7	2.9	2.9	2.9	150	
155	1.5	1.6	1.7	1.8	1.8	1.9	2	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.8	2.8	2.8	155	
160	1.5	1.5	1.7	1.7	1.7	1.8	1.9	2	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.7	2.7	2.7	160	
165	1.4	1.5		1.6	1.7		1.8	1.9	2	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.5	2.6	165	
170				1.5	1.6		1.7	1.8	1.9	2	2	2.1	2.2	2.2	2.3	2.4	2.4	2.5	170	
175				1.5	1.5		1.7	1.7		1.9	1.9	2	2.1	2.1	2.2	2.3	2.3	2.4	175	
180				1.4			1.6	1.6		1.8	1.8	1.9	2	2	2.1	2.2	2.2	2.3	180	
185							1.5	1.6		1.7	1.7	1.8	1.9	1.9	2	2.1	2.1	2.2	185	
190							1.5	1.5		1.6	1.7		1.8	1.9	1.9	2	2	2.1	190	
195							1.4			1.6	1.6		1.7	1.8	1.8	1.9	2	2	195	
200										1.5	1.5		1.7	1.7		1.9	1.9	1.9	200	
205										1.5	1.5		1.6	1.6		1.8	1.8	1.9	205	
210										1.4			1.5	1.6		1.7	1.7	1.8	210	
215													1.5	1.5		1.7	1.7		215	
220													1.5	1.5		1.6	1.6		220	
225																			225	
230																			230	
235																			235	
240																			240	

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Lifting capacities

Forces de levage



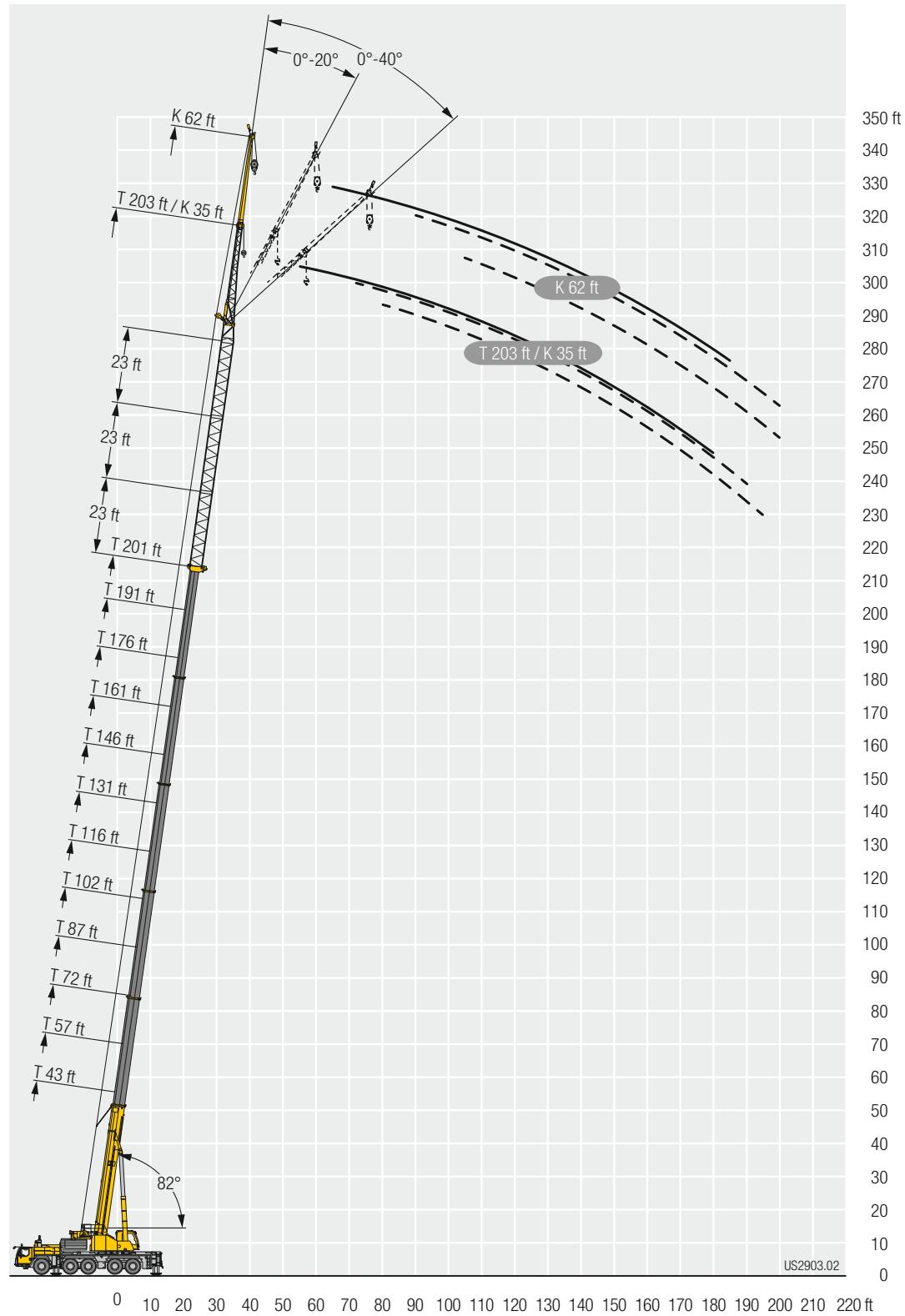
	131 ft + 69 ft			146 ft + 69 ft			161 ft + 69 ft			176 ft + 69 ft			191 ft + 69 ft			203 ft + 69 ft						
	62 ft			62 ft																		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
38	6.7																					38
40	6.7																					40
45	6.6			5.4																		45
50	6.4			5.7			4.6															50
55	6.4			5.8			4.9			3.9												55
60	6.3			6			5			3.9			3.1									60
65	6.1	6.3		6.1			5.1			4.1			3.1				2.5					65
70	6	6		6.1	6.2		5.2			4.2			3.1				2.6					70
75	5.9	5.8		6	6		5.3	5.5		4.3			3.2				2.6					75
80	5.8	5.6	5.3	5.9	5.8		5.3	5.4		4.3	4.6		3.2				2.6					80
85	5.6	5.4	5.2	5.8	5.5	5.3	5.3	5.3		4.4	4.6		3.3	3.5			2.6					85
90	5.4	5.2	5	5.6	5.3	5.1	5.2	5.1	5	4.4	4.6		3.4	3.6			2.6	2.8				90
95	5.1	4.9	4.8	5.4	5.1	5	5.1	4.9	4.8	4.5	4.6	4.5	3.4	3.6			2.6	2.8				95
100	4.9	4.7	4.6	5.2	4.9	4.8	5	4.8	4.6	4.5	4.4	4.3	3.5	3.6	3.8	2.7	2.9				100	
105	4.7	4.5	4.5	5	4.7	4.6	4.8	4.6	4.5	4.4	4.3	4.2	3.5	3.6	3.7	2.7	2.9	3.1			105	
110	4.5	4.4	4.3	4.8	4.5	4.4	4.6	4.4	4.3	4.3	4.1	4.1	3.5	3.6	3.6	2.8	3	3.1			110	
115	4.3	4.2	4.1	4.5	4.4	4.3	4.4	4.3	4.1	4.1	4	3.9	3.5	3.5	3.5	2.8	2.9	3.1			115	
120	4.1	4	4	4.4	4.2	4.1	4.3	4.1	4	4	3.9	3.8	3.4	3.4	3.4	2.8	2.9	3			120	
125	4	3.8	3.8	4.2	4	4	4.1	4	3.9	3.9	3.8	3.7	3.4	3.3	3.3	2.8	2.9	3			125	
130	3.8	3.7	3.7	4	3.9	3.8	3.9	3.8	3.7	3.7	3.6	3.6	3.3	3.3	3.2	2.8	2.9	2.9			130	
135	3.6	3.5	3.5	3.9	3.7	3.7	3.8	3.7	3.6	3.6	3.5	3.5	3.2	3.2	3.1	2.7	2.8	2.8			135	
140	3.5	3.4	3.4	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.4	3.3	3.1	3.1	3	2.7	2.7	2.7			140	
145	3.3	3.2	3.2	3.6	3.4	3.4	3.5	3.4	3.4	3.4	3.2	3.2	3	2.9	2.9	2.6	2.6	2.7			145	
150	3.2	3.1	3.1	3.4	3.3	3.3	3.4	3.3	3.2	3.2	3.1	3.1	2.9	2.8	2.9	2.6	2.6	2.6			150	
155	3	3	3	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3	3	2.8	2.7	2.8	2.5	2.5	2.5			155	
160	2.9	2.9	2.9	3.1	3.1	3	3.1	3	3	3	2.9	2.9	2.7	2.6	2.7	2.4	2.4	2.4			160	
165	2.8	2.7	2.8	3	3	2.9	3	2.9	2.9	2.9	2.8	2.8	2.6	2.5	2.6	2.4	2.3	2.3			165	
170	2.7	2.6	2.7	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.5	2.4	2.5	2.3	2.2	2.3			170	
175	2.5	2.5	2.6	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.6	2.6	2.4	2.4	2.4	2.2	2.2	2.2			175	
180	2.4	2.4	2.5	2.7	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.3	2.3	2.3	2.1	2.1	2.1			180	
185	2.3	2.3	2.4	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.4	2.4	2.2	2.2	2.3	2	2	2.1			185	
190	2.2	2.2	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.2	1.9	2				190	
195	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2	2.1				1.9			195	
200	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	1.9	2				1.9			200	
205	2	2	2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9							205	
210	1.9	1.9	2	2	2	2	2	2	2	2	2	2	1.9	1.9							210	
215	1.8	1.8	1.9	1.9	1.9	2	2	1.9	2		1.8	1.9									215	
220	1.7	1.7	1.8	1.8	1.8	1.9	1.8	1.8	1.9		1.8										220	
225	1.7	1.7		1.8	1.7	1.8		1.8	1.9												225	
230	1.6	1.6		1.7	1.7	1.8		1.6	1.8												230	
235	1.6	1.6		1.6	1.6				1.6												235	
240	1.5	1.5		1.5	1.6																240	
245	1.5	1.5			1.5																245	
250	1.4	1.5																			250	
255	1.4																				255	

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Lifting heights Hauteurs de levage



TVNZK

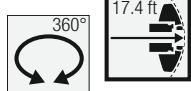


US2903.02

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 ft

Lifting capacities

Forces de levage



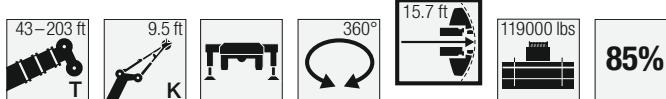
85% TK

	43 ft	57 ft	72 ft	87 ft	102 ft	116 ft	131 ft	146 ft	161 ft	176 ft	191 ft	203 ft	
9.5 ft													
10	76.2	76.2											10
11	76.2	76.2											11
12	76.2	76.2	76.2										12
13	76.2	76.2	76.2										13
14	76.2	76.2	76.2	76.2									14
15	76.2	76.2	76.2	76.2									15
16	76.2	76.2	76.2	76.2									16
17	76.2	76.2	76.2	76.2	76.2								17
18	76.2	76.2	76.2	76.2	76.2								18
19	76.2	76.2	76.2	76.2	76.2								19
20	76.2	76.2	76.2	76.2	76.2	76.2							20
22	76.2	76.2	76.2	76.2	76.2	76.2							22
24	76.2	76.2	76.2	76.2	76.2	76.2	64.9						24
26	76.2	76.2	76.2	76.2	76.2	76.2	76.2						26
28	76.1	76.2	76.2	76.2	76.2	76.2	75.2	57.3					28
30	75.5	76.2	76.2	76.2	76.2	76.2	73.2	56.2					30
32	74.6	76.2	76.2	76.2	76.2	76.2	71.1	54.9	49.3				32
34	72.8	76.2	76.2	76.2	76.2	76.2	69	53.6	48.4				34
36	70.4	76.2	76.2	76.2	76.2	76	67	52.3	47.5	41.8			36
38	67.6	75.7	76.2	76.2	76.2	74.9	65.2	51	46.6	41.3			38
40	64	74.8	76.2	76.2	76.2	73.5	63.3	49.9	45.8	40.6	32		40
45	53.5	71.8	76	76.2	76.2	69.5	58.7	47.5	43.6	38.8	30.9	25.4	45
50		66.8	73.8	74.4	72.6	65.8	54.7	45.1	41.3	36.9	29.8	24.5	50
55		59.9	66.1	65.4	64.2	62.7	50.8	43	39.1	35.4	28.7	23.7	55
60		50.9	58.8	58.1	57.7	58	47.4	41.1	37.1	33.9	27.8	22.9	60
65			52.4	51.7	53	51.6	44.2	39	35	32.4	26.9	22.2	65
70			47	48.4	47.6	46.2	41.4	37	33.1	30.9	26	21.4	70
75			43.1	43.7	42.9	41.6	38.8	35	31.3	29.4	25.1	20.6	75
80				39.7	38.9	37.6	36	33	29.5	27.9	24.2	19.8	80
85				36.3	35.4	34.1	32.9	31.1	27.9	26.5	23.3	19	85
90				31.6	32.4	31	31.2	29.4	26.4	25.1	22.4	18.2	90
95				29.7	28.6	28.8	27.6	25	23.8	21.5	17.3	12.5	95
100					27.3	27.2	26.4	25.7	23.7	22.6	20.6	16.5	100
105					22.5	25.5	24.2	24.2	22.5	21.5	19.7	15.6	105
110						23.6	22.3	22.3	21.1	20.4	18.8	14.8	110
115						22.3	20.6	20.6	19.4	19.3	17.9	14	115
120							19.6	19	18.4	17.9	17	13.3	120
125							18.8	17.5	17.5	16.6	16.3	12.6	125
130							17.8	16.2	16.2	15.8	15.5	12	130
135								14.9	14.9	15.1	14.4	11.4	135
140								14.2	13.8	14.3	13.3	10.8	140
145								13.7	12.7	13.2	12.3	10.3	145
150									11.9	12.3	11.4	9.9	150
155									11.3	11.5	10.6	9.4	155
160										10.9	10.8	9.9	160
165										10.1	9.2	8.6	165
170											9.5	8.6	170
175											8.9	8	175
180												7.5	180
185												6.9	185
190												6.5	190
195												5.9	195
200												5.5	200
205												4.9	205

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Lifting capacities

Forces de levage



	43 ft	57 ft	72 ft	87 ft	102 ft	116 ft	131 ft	146 ft	161 ft	176 ft	191 ft	203 ft	
	9.5 ft												
10	76.2	76.2											10
11	76.2	76.2											11
12	76.2	76.2	76.2										12
13	76.2	76.2	76.2										13
14	76.2	76.2	76.2	76.2									14
15	76.2	76.2	76.2	76.2									15
16	76.2	76.2	76.2	76.2									16
17	76.2	76.2	76.2	76.2	76.2								17
18	76.2	76.2	76.2	76.2	76.2								18
19	76.2	76.2	76.2	76.2	76.2								19
20	76.2	76.2	76.2	76.2	76.2	76.2							20
22	76.2	76.2	76.2	76.2	76.2	76.2							22
24	76.2	76.2	76.2	76.2	76.2	76.2	64.9						24
26	76.2	76.2	76.2	76.2	76.2	76.2	76.2						26
28	76.1	76.2	76.2	76.2	76.2	76.2	75.2	57.3					28
30	75.5	76.2	76.2	76.2	76.2	76.2	73.2	56.2					30
32	74.6	76.2	76.2	76.2	76.2	76.2	71.1	54.9	49.3				32
34	72.8	76.2	76.2	76.2	76.2	76.2	69	53.6	48.4				34
36	70.4	76.2	76.2	76.2	76.2	76.2	67	52.3	47.5	41.8			36
38	67.6	75.7	76.2	76.2	76.2	74.9	65.2	51	46.6	41.3			38
40	64	74.8	76.2	76.2	76.2	73.5	63.3	49.9	45.8	40.6	32		40
45	53.5	71.8	76	76.2	75.9	69.5	58.7	47.5	43.6	38.8	30.9	25.4	45
50		66.8	71.9	71.2	70	65.8	54.7	45.1	41.3	36.9	29.8	24.5	50
55		59.9	63.2	62.5	61.3	62	50.8	43	39.1	35.4	28.7	23.7	55
60		50.9	56.1	55.4	56.5	55.3	47.4	41.1	37.1	33.9	27.8	22.9	60
65			49.9	51.3	50.5	49.1	44.2	39	35	32.4	26.9	22.2	65
70			45.4	46	45.2	43.9	41.4	37	33.1	30.9	26	21.4	70
75			41.7	41.5	40.7	39.4	38.1	35	31.3	29.4	25.1	20.6	75
80					37.7	36.9	35.5	34.3	33	29.5	27.9	24.2	19.8
85					34.4	33.5	32.2	32.6	31.1	27.9	26.5	23.3	19
90					31.3	30.6	29.9	29.7	28.6	26.4	25.1	22.4	18.2
95					28	28.3	27.1	26.9	25	23.8	21.5	17.3	95
100					26.2	26	24.8	24.9	23.5	22.6	20.6	16.5	100
105					22.5	24.4	22.7	22.8	21.7	21.5	19.7	15.6	105
110						22.6	21.5	20.9	20.2	19.9	18.8	14.8	110
115						21	20.3	19.2	19.1	18.2	17.9	14	115
120							19.3	17.7	17.7	17.3	17	13.3	120
125							17.9	16.3	16.3	16.6	15.8	12.6	125
130							16.6	15.6	15	15.5	14.5	12	130
135								14.7	13.8	14.3	13.3	11.4	135
140								14.2	12.8	13.2	12.3	10.8	140
145								13.6	12.2	12.2	11.4	10.3	145
150									11.7	11.4	10.6	9.9	150
155									11.2	10.7	9.8	9.4	155
160										10.6	10	9.1	9
165											9.3	8.4	8.4
170											8.7	7.8	7.8
175											8.1	7.3	7.2
180												6.7	6.7
185												6.2	6.2
190												5.8	5.7
195													5.3
200													4.8
205													4.5

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Lifting heights

Hauteurs de levage

TK

