

Mobile Crane/Grue mobile

LTM 1450-8.1

Fast-Erecting Crane
Grue d'intervention rapide



550 USt



279 ft



328 ft



430 ft



LIEBHERR

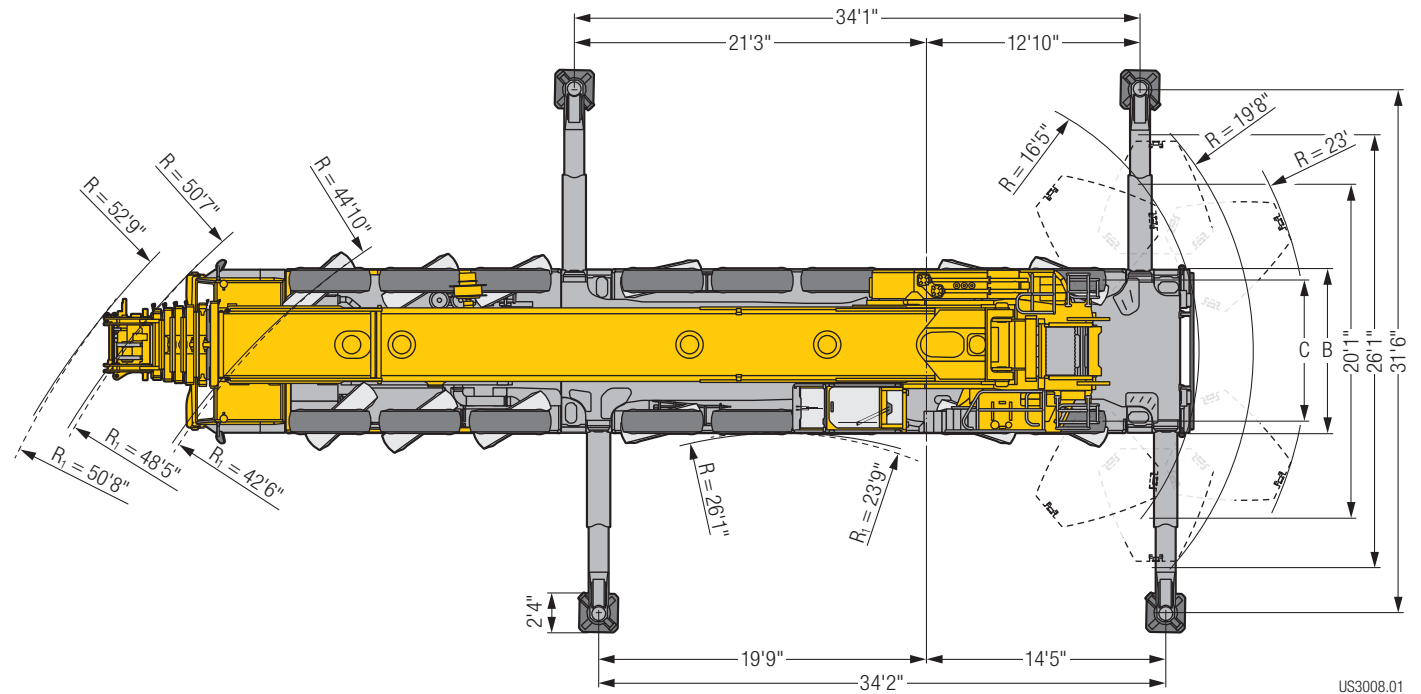
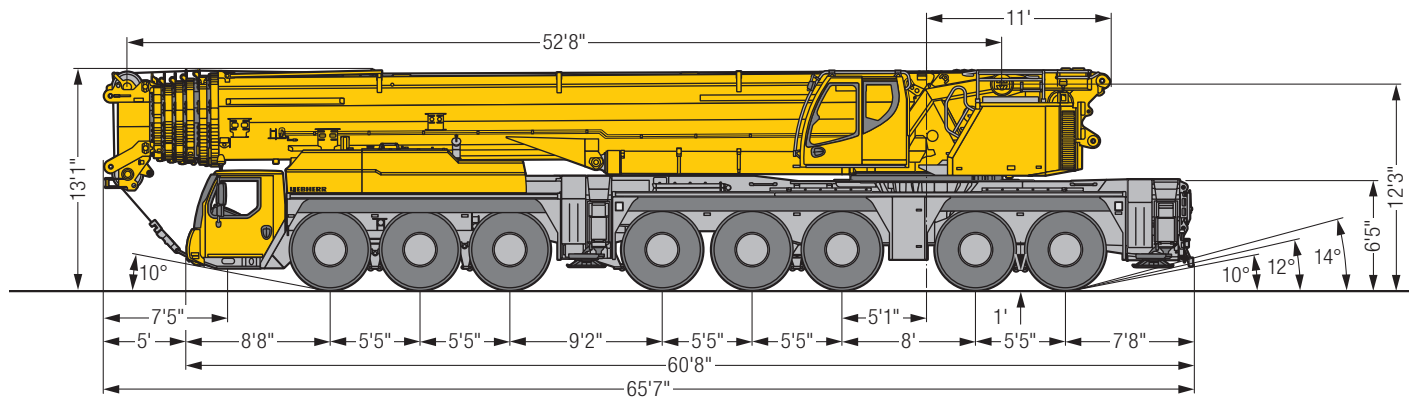
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Dimensions Encombremment



US3008.01

R_i = All-wheel steering · Direction toutes roues

Dimensions/Encombremment

	B	C
 445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	9'10" 10'2"	8'4" 8'5"

Mobile Crane/Grue mobile

LTM 1450-8.1



279 ft



46 ft – 276 ft



46 ft – 184 ft

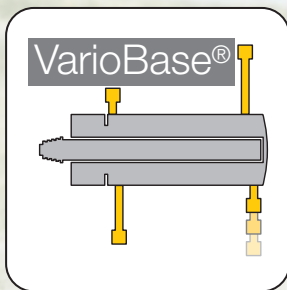


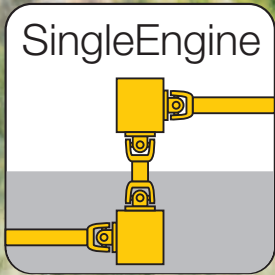
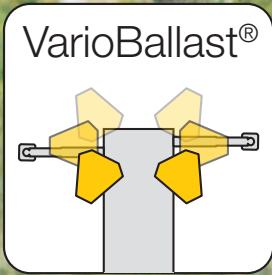
23 ft – 115 ft



VarioBallast
295,400 lbs

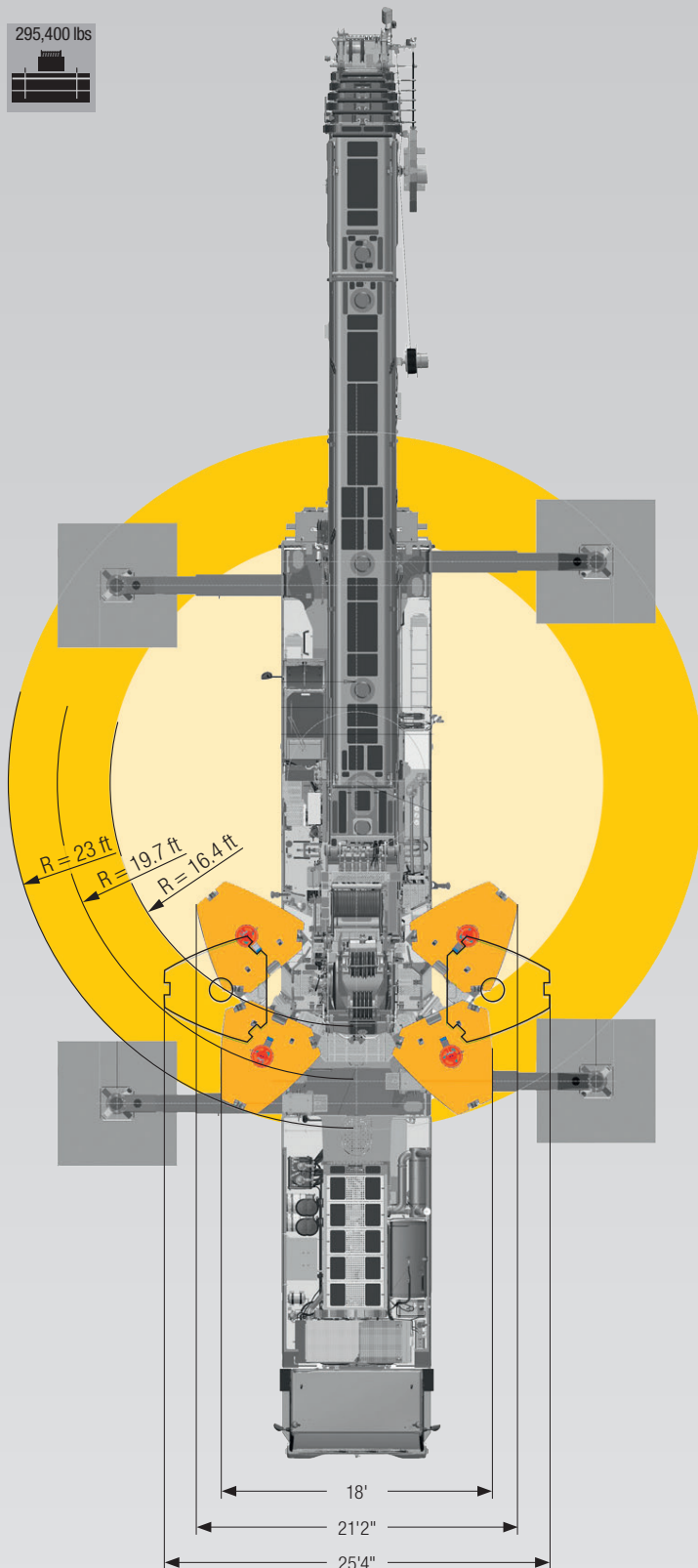
€COmode





VarioBallast

295,400 lbs



S3079

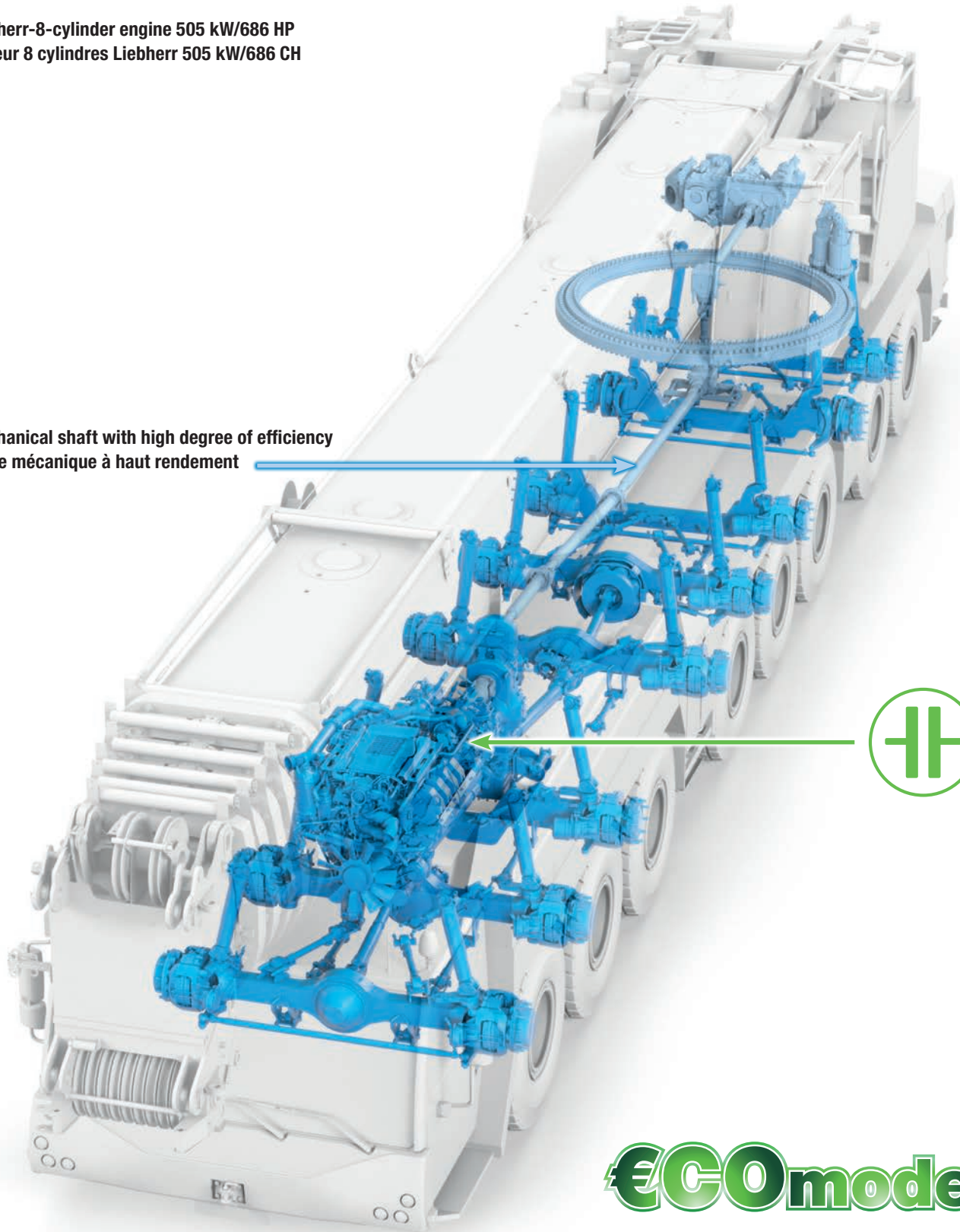


Liebherr Single-Engine Concept

Concept de moteur unique Liebherr

Liebherr-8-cylinder engine 505 kW/686 HP
Moteur 8 cylindres Liebherr 505 kW/686 CH

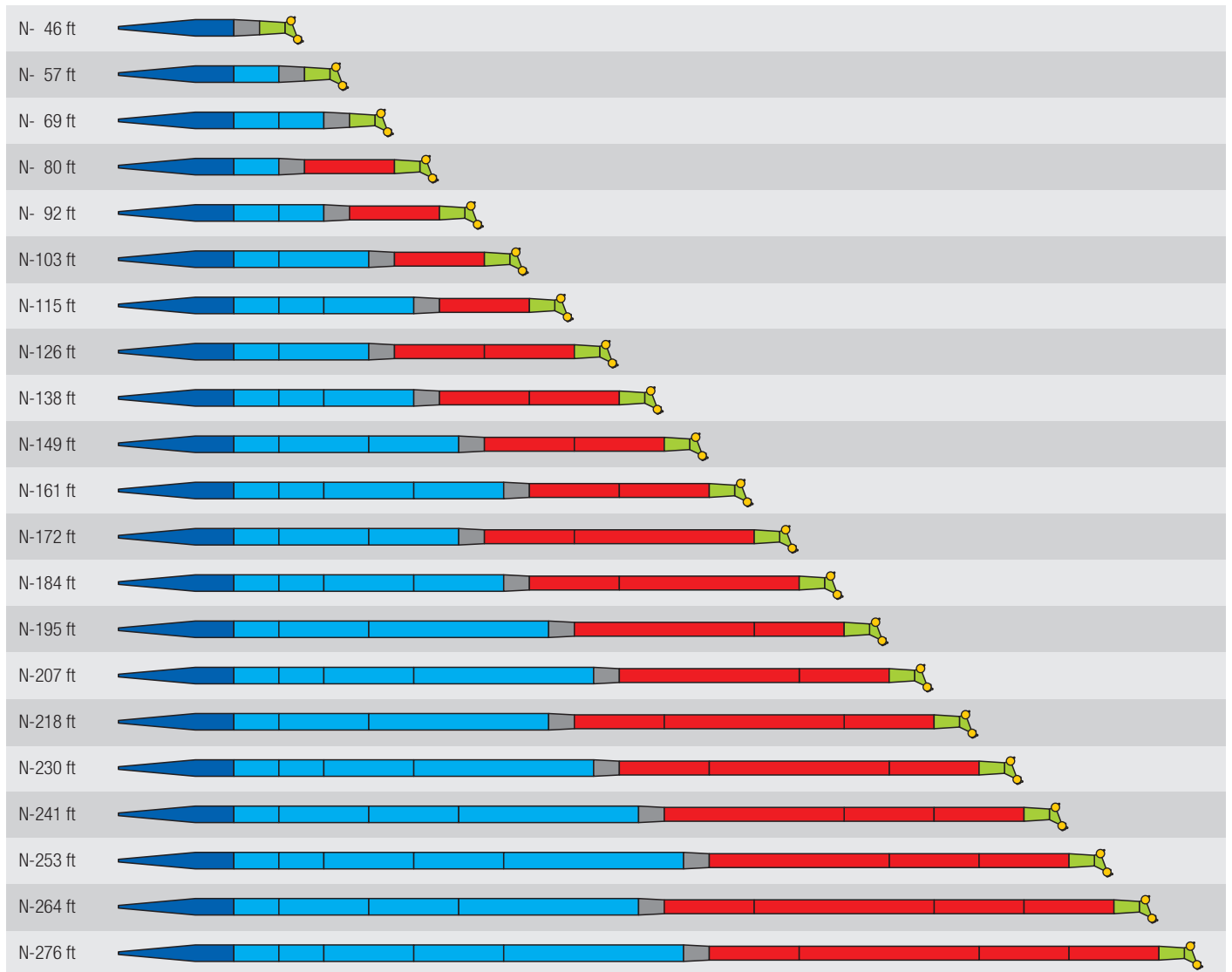
Mechanical shaft with high degree of efficiency
Arbre mécanique à haut rendement











€COmode

Boom/jib combinations - Luffing fly jib

Configurations de flèche - Fléchette à volée variable

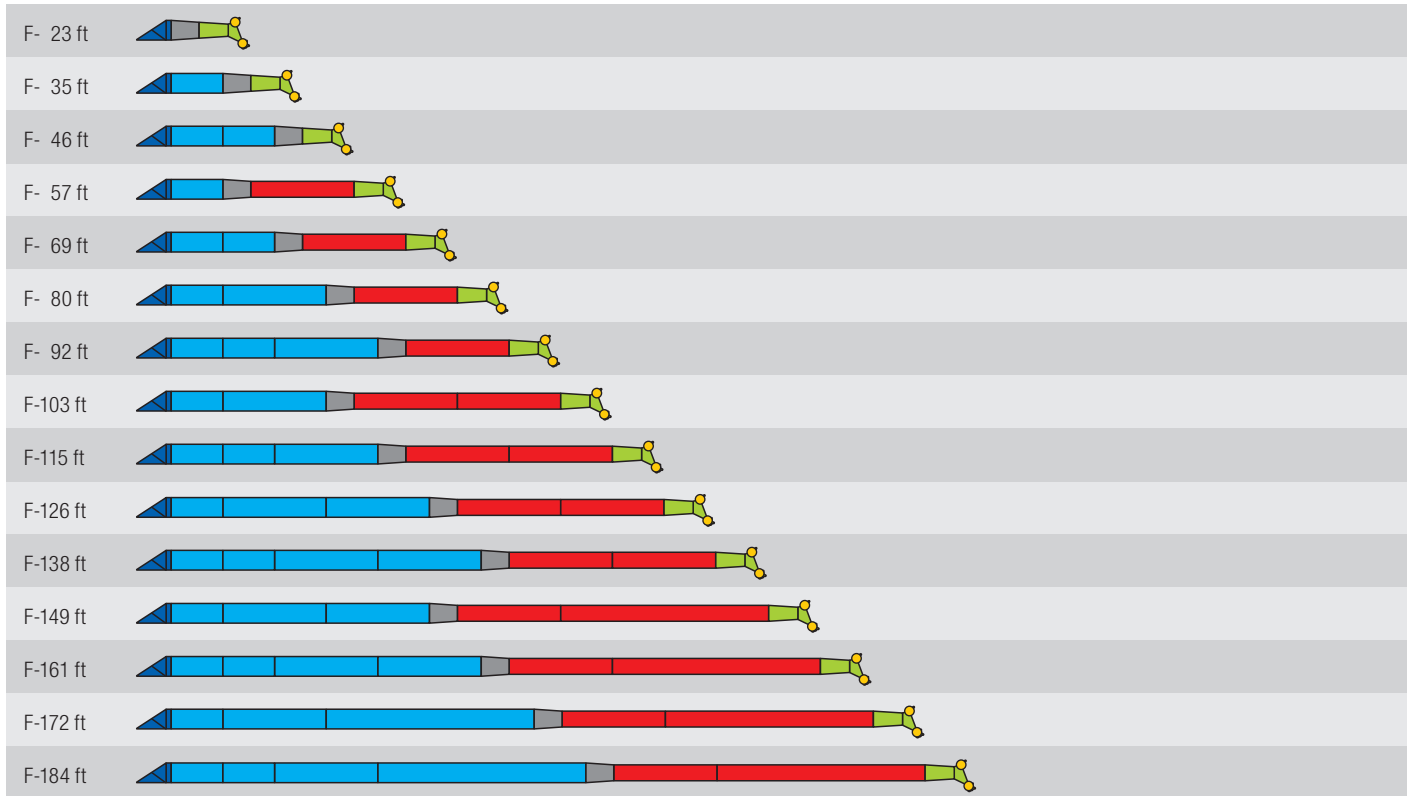










-  29'6" N-shaped base section · Élément de base N
-  NA-11'6"
-  NA-23'
-  NA-46'
-  6'7" NI reduction section · Élément réducteur NI
-  NI-23'
-  NI-46'
-  9'10" N head section · Élément de tête N

US3070

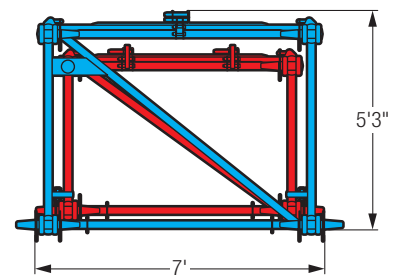
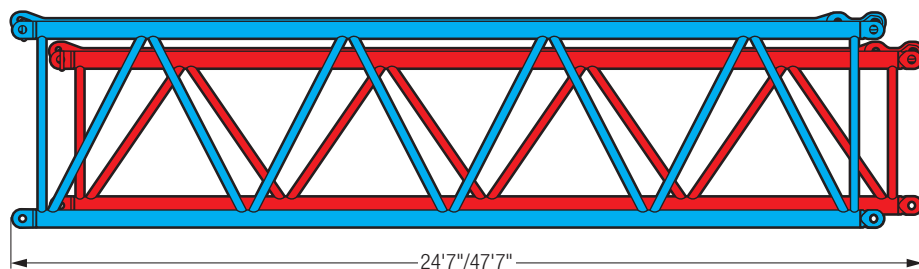
Boom/jib combinations - Fixed fly jib

Configurations de flèche - Fléchette fixe



-  6'7" TF-adapter · TF-adaptateur
-  NA-11'6"
-  NA-23'
-  NA-46'
-  6'7" NI reduction section · Élément réducteur NI
-  NI-23'
-  NI-46'
-  9'10" N head section · Élément de tête N

US3068



US3069

Boom/jib combinations Configurations de flèche

- T** Telescopic boom/Flèche télescopique
- K** Swing away jib/Flechette pliante
- F** Fixed lattice jib/Fléchette treillis fixe
- N** Luffing fly jib/Fléchette treillis à volée variable
- H** Auxiliary jib/Fléchette auxiliaire



T
13 – 19

TK
20 – 35

TFH
36 – 74

TNH
75 – 95

S3012.01

Weights Poids



Hook block/Moufles à crochet

Load lbs Forces de levage lbs	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
526,400	11	22	8,160
443,100	9	18	7,275
377,000	7	15	7,715
284,800	5	11	6,835
186,700	3	7	5,730
82,500	1	3	3,090
27,600	–	1	1,545

Working speeds Vitesses

Crane carrier/Châssis porteur



445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	1.2	53	39,5 %	12 / 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 – 446 ft/min single line ft/min au brin simple	0.98" / 1705 ft	28325 lbs
	0 – 502 ft/min single line ft/min au brin simple	0.98" / 3477 ft	28325 lbs
	0 – 1.3 rpm		
	approx. 80 seconds to reach 83.5° boom angle env. 80 s jusqu'à 83,5°		
	approx. 731 seconds for boom extension from 53 ft – 279 ft env. 731 s pour passer de 53 ft – 279 ft		

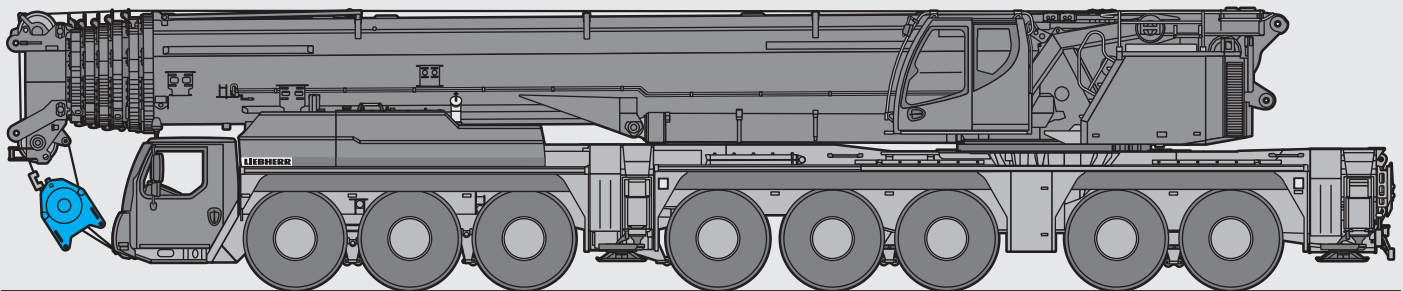
Counterweight Contrepoids



Axle/Essieu

Axle Essieu	1	2	3	4	5	6	7	8	Total weight lbs Poids total lbs
lbs	26,400	26,400	26,400	26,400	26,400	26,400	26,400	26,400	211,200 ¹⁾

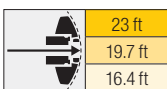
¹⁾ with sheave set - avec jeu de poulies



S3071

Lifting capacities Forces de levage

T



85%

	53 ft	70 ft	87 ft	105 ft	108 ft	122 ft	139 ft	145 ft	157 ft	163 ft	174 ft	183 ft	191 ft		
10	992.1	444.3	426.4											10	
11	747.3	444.3	427.4											11	
12	527.6	444.3	428.5	415.7										12	
13	527.6	444.3	429.7	416.7										13	
14	527.6	444.3	431.2	417.7	361.1									14	
15	527.6	444.3	433	418.7	404.3									15	
16	527.6	444.3	434.8	419.7	400.3	194.6								16	
17	527.6	444.3	436.6	420.6	396.1	190.6								17	
18	527.6	444.3	438.4	421	391.9	186.2	365.7							18	
19	527	444.3	440.1	421.2	387.8	181.7	362.5							19	
20	525.1	443.8	441.2	421.4	383.6	177.3	357.3							20	
22	489.2	425.3	424.3	414.8	370.7	168.7	346.9	275.2						22	
24	448.2	398	397.3	388.8	366.2	160.9	336.6	266.4	116.5	166.3				24	
26	412.7	372.7	372.3	369.5	357.4	153.7	326.2	257.4	112.8	228.7	100.2			26	
28	382.3	349.9	351.4	348.2	336.6	146.5	315.5	248.4	109.2	221.7	97.3	154.7		28	
30	355.8	328.9	330.4	328	317.4	139.3	304.7	239.9	105.5	214.7	94.5	149.9	85.1	30	
32	332.2	309.1	310.9	310.1	300	132.2	291.6	232.4	102	207.8	91.6	145.1	83.3	127.1	32
34	311.5	291.5	294.2	293.6	284.2	127	276.7	225.7	98.9	201	88.7	140.3	81.3	123.8	34
36	292.9	275.4	278.6	278.2	269.8	122.2	263.1	219.1	96	194.4	85.9	136.1	79.3	120.5	36
38	276.1	260.9	264.1	264	257.1	117.4	250.7	212.5	93.1	188.4	83.5	132.7	77.3	117.5	38
40	261.1	247.7	250.9	250.9	244.8	112.6	239.2	205.9	90.2	182.5	81.4	129.6	75.3	114.7	40
45	228.8	219	222.3	222.2	219.8	101.3	213.3	191	83	167.5	76.1	122.8	71	108.2	45
50			197.5	197.5	197.6	93.3	191.1	179.5	77.7	153.5	70.7	116	67.2	102.6	50
55			176.2	176.3	177.4	85.6	172.7	168	72.6	143.1	66.2	109.4	63.5	97	55
60			158.3	158.2	159.5	77.9	156.5	155.8	67.6	132.9	62.2	104.4	59.7	91.6	60
65			133	144.1	144.3	72.3	142.4	142.8	63.2	123	58.3	99.6	56.9	86.8	65
70				132	131.4	67.5	129.5	131.3	59.6	114.6	54.3	94.9	54	82.8	70
75				121	120.3	62.8	120.8	121.2	56	108.1	51.2	90.3	51.1	78.8	75
80				111.5	110.7	58.8	113.5	112	52.4	101.6	48.3	86.6	48.1	74.8	80
85					102.2	55.5	105.1	103.4	48.8	95	45.4	83.3	45.8	71	85
90					94.8	52.2	97.6	95.9	46.5	88.5	42.5	79.9	43.6	68.1	90
95					88.3	49.5	90.9	89.1	44.2	83.3	39.6	76.6	41.5	65.3	95
100					67.2	47	85	83.1	41.9	78.9	37.4	73.2	39.3	62.6	100
105							79.6	77.7	39.6	74.4	35.5	70.1	37.1	59.8	105
110							74.8	72.7	37.7	69.9	33.6	67.2	35.2	57.1	110
115							69.9	68.2	36.1	65.6	31.7	64.4	33.5	54.5	115
120								64	34.5	61.4	29.9	61.6	32.1	52.2	120
125								60.3	33	57.6	28.5	58.7	30.6	50.2	125
130								57	31.8	55.1	27.2	56	29.1	48.1	130
135									30.6	53.2	25.9	53.2	27.7	46.1	135
140									30	51.9	24.5	50.1	26.6	44	140
145										50.1	23.5	47.3	25.5	42.1	145
150										43.7	22.5	44.6	24.5	40.5	150
155											21.6	42.2	23.4	38.8	155
160												39.9	22.4	37.1	160
165												37.8	21.7	35.5	165
170													21	34.1	170
175													20.4	32.6	175
180														30.8	180
185														25.9	185

* over rear - en arrière

Lifting capacities Forces de levage

T



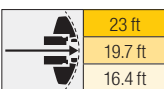
295,400 lbs

85%

	201 ft	209 ft	218 ft	226 ft	235 ft	241 ft	243 ft	253 ft	259 ft	261 ft	270 ft	276 ft	279 ft	
34	75.2													34
36	73.7	103												36
38	72.3	100.7	69											38
40	70.8	98.4	67.8	84.7										40
45	67.3	92.6	64.9	80.5	61	57.3	69.3	57.1						45
50	63.9	87.1	62.1	76.4	58.6	55.1	66.7	55.3	50.9	56.4	49.7			50
55	60.8	82.6	59.3	72.2	56.2	52.8	64	53.4	49.2	54.7	48.5	45.4	43.6	55
60	57.7	78.6	56.8	68.6	54	50.6	61.2	51.6	47.6	53.1	47.2	44	42.2	60
65	54.6	74.6	54.2	65.2	52	48.6	58.6	49.8	45.9	51.4	45.8	42.6	40.7	65
70	52	70.9	51.6	62.4	50	46.7	55.9	48.2	44.3	49.6	44.5	41.3	39.3	70
75	49.7	67.8	49.3	59.6	48	44.7	53.3	46.6	42.8	47.6	43.1	40	37.9	75
80	47.3	64.8	47.4	57.2	46	42.7	50.6	44.9	41.2	45.6	41.8	38.7	36.5	80
85	45	61.9	45.4	55	44.4	40.9	48.1	43.3	39.6	43.6	40.5	37.5	35.1	85
90	42.8	58.9	43.5	52.8	42.8	39.2	45.9	41.9	38.2	41.6	39.1	36.2	33.7	90
95	40.8	56.3	41.6	50.6	41.3	37.6	44.3	40.5	36.8	39.8	37.8	35	32.4	95
100	39.1	54	39.9	48.5	39.7	36	42.6	39.3	35.5	38	36.4	33.8	31.1	100
105	37.3	52	38.3	46.4	38.2	34.4	41	38	34.2	36.4	35	32.6	29.8	105
110	35.5	49.9	36.8	44.8	36.7	32.8	39.4	36.8	32.9	34.7	33.6	31.4	28.7	110
115	33.8	47.9	35.4	43.2	35.4	31.3	37.8	35.5	31.5	33.1	32.1	30.2	27.5	115
120	32	45.8	33.9	41.6	34.1	30.1	36.5	34.3	30.2	31.5	30.7	29.1	26.3	120
125	30.6	43.8	32.5	40	32.9	28.8	35.3	33.2	29.1	30	29.3	27.9	25.2	125
130	29.3	41.9	31	38.4	31.6	27.6	34.1	32.1	28.1	28.7	28	26.7	24	130
135	28.1	40.4	29.7	36.8	30.3	26.3	32.9	31	27.1	27.4	26.8	25.6	23	135
140	26.9	38.8	28.7	35.3	29	25.1	31.7	30	26	26.2	25.7	24.6	22	140
145	25.6	37.2	27.6	34	27.7	23.8	30.5	28.9	25	24.9	24.6	23.5	21.1	145
150	24.4	35.6	26.6	32.8	26.6	22.6	29.3	27.8	24	23.7	23.4	22.5	20.2	150
155	23.4	34.1	25.6	31.6	25.6	21.6	28.1	26.7	23	22.4	22.3	21.5	19.3	155
160	22.5	32.7	24.5	30.4	24.6	20.6	27.1	25.7	22	21.2	21.2	20.4	18.5	160
165	21.6	31.5	23.5	29.1	23.5	19.6	26.1	24.8	21	20	20.1	19.4	17.6	165
170	20.7	30.4	22.7	27.9	22.5	18.6	25.2	23.9	20.2	19	19.1	18.3	16.7	170
175	19.8	29.2	22	26.9	21.5	17.6	24.2	23	19.4	18.1	18.1	17.3	15.8	175
180	19	28	21.2	26	20.5	16.6	23.2	22.2	18.6	17.1	17.2	16.4	15	180
185	18.3	26.9	20.4	25.1	19.7	15.7	22.2	21.3	17.7	16.1	16.3	15.6	14.3	185
190	17.6	26	19.7	24.2	18.9	15	21.4	20.4	16.9	15.2	15.4	14.8	13.6	190
195	17.2	25	19	23.3	18.2	14.3	20.7	19.6	16.1	14.2	14.5	14	12.9	195
200		23.3	18.5	22.4	17.4	13.6	19.9	18.9	15.3	13.3	13.6	13.1	12.2	200
205			17.9	21.7	16.6	12.9	19.2	18.3	14.7	12.6	12.7	12.3	11.5	205
210			17.5	21	15.9	12.2	18.5	17.7	14.1	11.9	12	11.5	10.8	210
215				20.3	15.4	11.6	17.8	17	13.5	11.2	11.4	10.8	10.1	215
220				15.3	14.8	11.1	17.3	16.4	12.9	10.6	10.8	10.2	9.5	220
225					14.3	10.7	16.8	15.8	12.3	9.9	10.2	9.6	9	225
230					10.7	10.2	16.3	15.3	11.7	9.2	9.6	9.1	8.5	230
235						10.1	14.9	14.9	11.3	8.7	9	8.5	8	235
240								14.5	10.9	8.2	8.4	8	7.5	240
245								11.8	10.6	7.8	7.9	7.4	6.7	245
250									10.3	7.3	7.4	5.8	4.8	250
255										5.3	5.7	4		255
260											4			260

Lifting capacities Forces de levage

T



85%

	53 ft	70 ft	87 ft	105 ft	108 ft	122 ft	139 ft	145 ft	157 ft	163 ft	174 ft	183 ft	191 ft	
10	444.3	426.4												10
11	444.3	427.4												11
12	444.3	428.5	415.7											12
13	444.3	429.7	416.7											13
14	444.3	431.2	417.7	361.1										14
15	444.3	433	418.7	404.3										15
16	444.3	434.8	419.7	400.3	194.6									16
17	444.3	436.6	420.6	396.1	190.6									17
18	444.3	438.4	421	391.9	186.2	365.7								18
19	443.1	440.1	421.2	387.8	181.7	362.5								19
20	440.5	437.1	421.4	383.6	177.3	357.3								20
22	409	408.1	396	370.7	168.7	346.9	275.2							22
24	380	379.2	369	359.1	160.9	336.6	266.4	116.5	166.3					24
26	353.1	354.7	348.7	336.4	153.7	325.3	257.4	112.8	228.7	100.2				26
28	329.5	331.2	327.3	316.2	146.5	306.3	248.4	109.2	221.7	97.3	154.7			28
30	308.7	311.8	308.1	299.1	139.3	289	239.9	105.5	214.7	94.5	149.9	85.1		30
32	289.9	293.1	290.6	283.3	132.2	272	232.4	102	207.8	91.6	145.1	83.3	127.1	32
34	272.6	275.9	274	267.1	127	256.8	225.7	98.9	201	88.7	140.3	81.3	123.8	34
36	256	259.6	258.3	252.4	122.2	242.9	219.1	96	194.4	85.9	136.1	79.3	120.5	36
38	241.1	244.7	244.4	239.5	117.4	230.3	212.5	93.1	188.4	83.5	132.7	77.3	117.5	38
40	226.9	230.8	230.9	227	112.6	218.2	205.9	90.2	182.5	81.4	129.6	75.3	114.7	40
45	196.2	200.2	202	199.7	101.3	192.5	189.3	83	167.5	76.1	122.8	71	108.2	45
50		175.9	177.7	177.2	93.3	171.2	170	77.7	153.5	70.7	116	67.2	102.6	50
55		156.2	157.9	157.4	85.6	156.7	152.6	72.6	143	66.2	109.4	63.5	97	55
60		141.5	141.6	141.2	77.9	142.9	137.9	67.6	131.8	62.2	104.4	59.7	91.6	60
65		128.3	128	127.5	72.3	129.9	125.3	63.2	119.9	58.3	99.6	56.9	86.8	65
70			116.2	115.6	67.5	118.5	114.5	59.6	109.4	54.3	94.9	54	82.8	70
75			105.8	106.7	62.8	108.1	105	56	100	51.2	90.3	51.1	78.8	75
80			96.7	100	58.8	98.9	96.4	52.4	91.8	48.3	86.6	48.1	74.8	80
85				91.8	55.5	90.7	88.8	48.8	84.5	45.4	83.3	45.8	71	85
90				84.7	52.2	83.5	81.7	46.5	78.1	42.5	78.9	43.6	68.1	90
95				78.6	49.5	77.2	75.3	44.2	72.3	39.6	73.7	41.5	65.3	95
100				67.2	47	71.6	69.6	41.9	69.2	37.4	68.6	39.3	62.6	100
105						66.4	64.2	39.6	66.3	35.5	64	37.1	59.8	105
110						61.6	59.3	37.7	62.3	33.6	59.4	35.2	57.1	110
115						57.4	56.1	36.1	57.7	31.7	55	33.5	53.7	115
120								53.9	53.7	29.9	50.9	32.1	49.9	120
125								52.2	50.1	28.5	47.3	30.6	46.2	125
130								49.2	46.8	27.2	44	29.1	42.8	130
135									43.8	25.9	41.6	27.7	39.8	135
140									41	24.5	39.9	26.6	36.9	140
145									38.5	23.5	37.9	25.5	34.3	145
150									36.4	22.5	35.6	24.5	32.7	150
155										21.6	33.4	23.4	31.5	155
160											31.4	22.4	30.3	160
165											29.6	21.7	29.1	165
170												21	28.1	170
175												20.4	27.1	175
180													25.6	180
185													24.3	185

Lifting capacities Forces de levage

T



85%

	201 ft	209 ft	218 ft	226 ft	235 ft	241 ft	243 ft	253 ft	259 ft	261 ft	270 ft	276 ft	279 ft	
34	75.2													34
36	73.7	103												36
38	72.3	100.7	69											38
40	70.8	98.4	67.8	84.7										40
45	67.3	92.6	64.9	80.5	61	57.3	69.3	57.1						45
50	63.9	87.1	62.1	76.4	58.6	55.1	66.7	55.3	50.9	56.4	49.7			50
55	60.8	82.6	59.3	72.2	56.2	52.8	64	53.4	49.2	54.7	48.5	45.4	43.6	55
60	57.7	78.6	56.8	68.6	54	50.6	61.2	51.6	47.6	53.1	47.2	44	42.2	60
65	54.6	74.6	54.2	65.2	52	48.6	58.6	49.8	45.9	51.4	45.8	42.6	40.7	65
70	52	70.9	51.6	62.4	50	46.7	55.9	48.2	44.3	49.6	44.5	41.3	39.3	70
75	49.7	67.8	49.3	59.6	48	44.7	53.3	46.6	42.8	47.6	43.1	40	37.9	75
80	47.3	64.8	47.4	57.2	46	42.7	50.6	44.9	41.2	45.6	41.8	38.7	36.5	80
85	45	61.9	45.4	55	44.4	40.9	48.1	43.3	39.6	43.6	40.5	37.5	35.1	85
90	42.8	58.9	43.5	52.8	42.8	39.2	45.9	41.9	38.2	41.6	39.1	36.2	33.7	90
95	40.8	56.3	41.6	50.6	41.3	37.6	44.3	40.5	36.8	39.8	37.8	35	32.4	95
100	39.1	54	39.9	48.5	39.7	36	42.6	39.3	35.5	38	36.4	33.8	31.1	100
105	37.3	52	38.3	46.4	38.2	34.4	41	38	34.2	36.4	35	32.6	29.8	105
110	35.5	49.9	36.8	44.8	36.7	32.8	39.4	36.8	32.9	34.7	33.6	31.4	28.7	110
115	33.8	47.9	35.4	43.2	35.4	31.3	37.8	35.5	31.5	33.1	32.1	30.2	27.5	115
120	32	45.8	33.9	41.6	34.1	30.1	36.5	34.3	30.2	31.5	30.7	29.1	26.3	120
125	30.6	43.8	32.5	40	32.9	28.8	35.3	33.2	29.1	30	29.3	27.9	25.2	125
130	29.3	41.9	31	38.4	31.6	27.6	34.1	32.1	28.1	28.7	28	26.7	24	130
135	28.1	39.8	29.7	36.8	30.3	26.3	32.9	31	27.1	27.4	26.8	25.6	23	135
140	26.9	37	28.7	35.3	29	25.1	31.7	30	26	26.2	25.7	24.6	22	140
145	25.6	34.4	27.6	34	27.7	23.8	30.5	28.9	25	24.9	24.6	23.5	21.1	145
150	24.4	32	26.6	32.8	26.6	22.6	29.3	27.8	24	23.7	23.4	22.5	20.2	150
155	23.4	29.7	25.6	31.1	25.6	21.6	28.1	26.7	23	22.4	22.3	21.5	19.3	155
160	22.5	27.7	24.5	29.1	24.6	20.6	27.1	25.7	22	21.2	21.2	20.4	18.5	160
165	21.6	26.6	23.5	27.1	23.5	19.6	26.1	24.8	21	20	20.1	19.4	17.6	165
170	20.7	25.5	22.7	25.3	22.5	18.6	25.1	23.9	20.2	19	19.1	18.3	16.7	170
175	19.8	24.5	22	23.6	21.5	17.6	24	23	19.4	18.1	18.1	17.3	15.8	175
180	19	23.4	21.2	22	20.5	16.6	22.4	22.2	18.6	17.1	17.2	16.4	15	180
185	18.3	22	20.4	20.6	19.7	15.7	20.9	21.2	17.7	16.1	16.3	15.6	14.3	185
190	17.6	21.1	19.7	19.6	18.9	15	19.5	20	16.9	15.2	15.4	14.8	13.6	190
195	17.2	20.4	19	18.8	18.2	14.3	18.2	18.6	16.1	14.2	14.5	14	12.9	195
200		19.8	18.5	18	17.4	13.6	16.9	17.4	15.3	13.3	13.6	13.1	12.2	200
205			17.9	17.3	16.6	12.9	15.8	16.2	14.7	12.6	12.7	12.3	11.5	205
210			17.5	16.3	15.9	12.2	14.7	15.1	14.1	11.9	12	11.5	10.8	210
215				15.3	15.4	11.6	13.6	14	13.5	11.2	11.4	10.8	10.1	215
220				14.4	14.7	11.1	12.6	13.1	12.9	10.5	10.8	10.2	9.5	220
225					13.8	10.7	11.7	12.1	12.1	9.5	10.1	9.6	9	225
230					10.7	10.2	10.9	11.2	11.2	8.6	9.3	9	8.5	230
235						10.1	10.1	10.4	10.3	7.8	8.4	8.3	7.9	235
240								9.6	9.5	7	7.6	7.4	6.9	240
245								8.9	8.7	6.2	6.8	5.9	4.9	245
250								8	8	5.5	5.8	4.1		250
255										4.8	4.1			255

Lifting capacities Forces de levage

T



85%

	53 ft	70 ft	87 ft	105 ft	108 ft	122 ft	139 ft	145 ft	157 ft	163 ft	174 ft	183 ft	191 ft	
10	444.3	426.4												10
11	444.3	427.4												11
12	444.3	428.5	415.7											12
13	444.3	429.7	416.7											13
14	444.3	431.2	417.7	361.1										14
15	444.3	433	418.7	404.3										15
16	444.3	434.8	419.7	400.3	194.6									16
17	444.3	436.6	420.6	396.1	190.6									17
18	435.3	428.3	411.2	390.8	186.2	365.7								18
19	417.4	412.7	397.8	378.9	181.7	361.5								19
20	398.9	395.6	380.9	362.2	177.3	351.2								20
22	366.1	364.4	353.9	340.6	168.7	323.4	275.2							22
24	334.6	336.6	325.5	313.5	160.9	297.5	266.4	116.5	166.3					24
26	306.3	309.6	301	289.3	153.7	275	257.4	112.8	228.7	100.2				26
28	280.9	284.9	278.6	268	146.5	254.3	245.1	109.2	221.6	97.3	154.7			28
30	258.3	262.5	257.7	248.2	139.3	239.4	229	105.5	214	94.5	149.9	85.1		30
32	238.1	242.4	239.5	230.6	132.2	224.9	213.6	102	199.3	91.6	145.1	83.3	127.1	32
34	220.2	224.5	223	215	127	210.3	197.2	98.9	183.9	88.7	140.3	81.3	123.8	34
36	204.2	208.5	207.9	204.8	122.2	194.2	182.3	96	169.9	85.9	136.1	79.3	120.5	36
38	189	193.8	193.7	190.8	117.4	179.9	169.2	93.1	157.8	83.5	132.7	77.3	117.5	38
40	175.4	182.1	181.1	177.2	112.6	167.3	157.5	90.2	147.1	81.4	129.6	75.3	114.7	40
45	144.8	153.3	155.8	149.6	101.3	141.9	133.5	83	124.7	76.1	122.8	71	108.2	45
50		126.4	130.8	128.4	93.3	121.8	115.1	77.7	113.8	70.7	107.4	67.2	101.1	50
55		106.3	110.4	111.2	85.6	106.2	105	72.6	100.8	66.2	94.7	63.5	88.4	55
60		90.8	94.6	95.6	77.9	93.4	94.8	67.6	89	62.2	85.6	59.7	79.4	60
65		78.6	82.2	83	72.3	84.8	84.5	63.2	79.5	58.3	76.1	56.9	71.1	65
70			72.6	72.8	67.5	76.6	75.6	59.6	71.9	54.3	68.1	54	66.1	70
75			64.2	64.7	62.8	68	67.1	56	64.6	51.2	62.7	51.1	60.2	75
80			57.2	60.5	58.8	60.8	59.8	52.4	60.4	48.3	57.6	48.1	54.5	80
85				54.4	55	54.7	53.6	48.8	55.3	45.4	52.4	45.8	49.5	85
90				49.2	49.8	49.3	50.2	46.5	49.9	42.5	47.8	43.6	46.4	90
95				44.7	45.2	44.7	46.3	44.2	45.2	39.6	44.9	41.5	42.4	95
100				41	41.3	40.7	42.2	41.9	41	37.4	41.4	39.3	39	100
105						37.2	38.6	39	37.4	35.5	37.7	37.1	35.8	105
110						34.5	35.3	35.8	34.4	33.6	34.4	34.7	32.9	110
115						31.7	32.4	32.9	31.6	31.7	31.5	31.9	30.1	115
120							29.8	30.3	29	29.6	28.8	29.2	27.4	120
125							27.5	27.9	26.6	27.2	26.4	26.8	25	125
130							25.4	25.8	24.4	25	24.2	24.6	22.8	130
135								23.9	22.5	23	22.2	22.6	20.8	135
140								22.2	20.7	21.2	20.4	20.8	19	140
145									19.1	19.6	18.8	19.1	17.3	145
150									17.7	18.1	17.2	17.5	15.7	150
155										16.7	15.8	16.1	14.3	155
160											14.5	14.8	12.9	160
165											13.4	13.6	11.7	165
170												12.5	10.6	170
175												11.5	9.6	175
180													8.7	180
185													7.8	185

Lifting capacities Forces de levage

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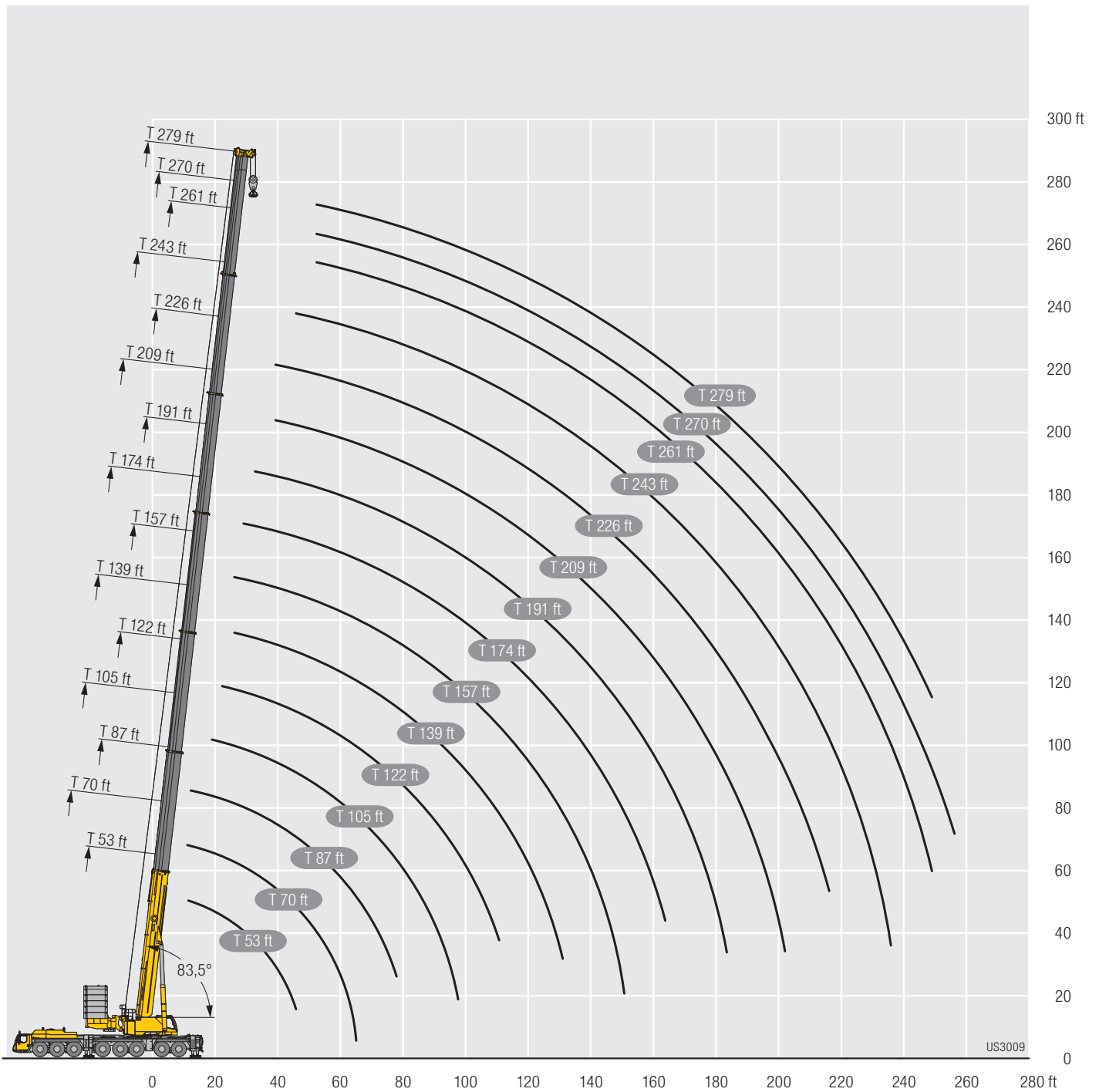


85%

	201 ft	209 ft	218 ft	226 ft	235 ft	241 ft	243 ft	253 ft	259 ft	261 ft	270 ft	276 ft	279 ft	
34	75.2													34
36	73.7	103												36
38	72.3	100.7	69											38
40	70.8	98.4	67.8	84.7										40
45	67.3	92.6	64.9	80.5	61	57.3	69.3	57.1						45
50	63.9	87.1	62.1	76.4	58.6	55.1	66.7	55.3	50.9	56.4	49.7			50
55	60.8	82.2	59.3	72.2	56.2	52.8	64	53.4	49.2	54.7	48.5	45.4	43.6	55
60	57.7	73.9	56.8	68	54	50.6	61.2	51.6	47.6	53.1	47.2	44	42.2	60
65	54.6	67.1	54.2	63.6	52	48.6	57.7	49.8	45.9	51.4	45.8	42.6	40.7	65
70	52	61.7	51.6	57.2	50	46.7	53.6	48.2	44.3	48.9	44.5	41.3	39.3	70
75	49.7	55.7	49.3	52.8	48	44.7	49.3	46.5	42.8	44.6	43.1	40	37.9	75
80	47.3	52.1	47.4	48.7	46	42.7	44.5	43.9	41.2	40.1	39.9	38.5	36.5	80
85	45	48	45.4	44.1	43	40.6	40.4	39.8	39.3	36.2	36.1	35.2	34.3	85
90	42.8	43.8	43.1	40.2	39.7	38.4	36.7	36.2	35.7	32.6	32.7	31.8	31.2	90
95	40.8	40.1	39.6	36.6	36.2	35.3	33.3	32.9	32.5	29.5	29.7	28.8	28.2	95
100	38.9	36.7	36.4	33.4	33.1	32.2	30.2	30	29.6	26.6	26.8	26.1	25.5	100
105	35.8	33.7	33.4	30.5	30.2	29.3	27.5	27.3	26.9	24	24.3	23.6	23	105
110	33	30.9	30.7	27.9	27.6	26.9	25	24.8	24.6	21.6	21.8	21.3	20.7	110
115	30.5	28.4	28.2	25.4	25.3	24.5	22.6	22.6	22.3	19.3	19.8	19.2	18.6	115
120	28	26.1	26	23.2	23.1	22.4	20.6	20.5	20.3	17.4	17.8	17.2	16.7	120
125	25.7	24	23.9	21.2	21.1	20.4	18.6	18.6	18.4	15.5	15.9	15.4	14.9	125
130	23.5	21.9	22	19.3	19.3	18.6	16.8	16.8	16.6	13.7	14.2	13.7	13.2	130
135	21.5	19.9	20.1	17.6	17.6	16.9	15.1	15.2	15	12.2	12.6	12.2	11.7	135
140	19.6	18	18.2	15.9	16	15.4	13.6	13.6	13.5	10.7	11.2	10.7	10.2	140
145	17.9	16.3	16.5	14.2	14.5	13.9	12.2	12.2	12.1	9.3	9.8	9.4	8.9	145
150	16.3	14.7	14.9	12.6	12.9	12.5	10.8	10.9	10.8	8	8.5	8.1	7.7	150
155	14.8	13.2	13.5	11.3	11.6	11.1	9.6	9.7	9.6	6.8	7.4	6.9	6.5	155
160	13.4	11.9	12.1	10.1	10.4	10	8.4	8.5	8.5	5.6	6.2	5.8	5.4	160
165	12.1	10.8	11	9	9.4	9	7.3	7.5	7.4	4.5	5.2	4.7	4.2	165
170	11.1	9.7	10	7.9	8.3	8	6.3	6.4	6.4		4	3.6		170
175	10.1	8.6	9	6.8	7.2	6.9	5.2	5.5	5.4					175
180	9.1	7.6	8	5.8	6.2	5.9	4.2	4.6	4.5					180
185	8.2	6.7	7.1	4.8	5.3	4.9		3.6	3.6					185
190	7.3	5.8	6.2	3.9	4.4	4								190
195	6.6	5	5.3		3.4									195
200		4.3	4.6											200
205			3.9											205

Lifting heights Hauteurs de levage

T



Lifting capacities Forces de levage

TK 69

	261 ft				264 ft				270 ft				276 ft				279 ft				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
65	15.2				15				14.5				14								65
70	15.1				14.9				14.4				13.9								70
75	15	14			14.8	13.9			14.3				13.8								75
80	14.8	13.8			14.7	13.7			14.1	13.3			13.7	13							80
85	14.7	13.6	12.4		14.5	13.4			14	13.1			13.6	12.8							85
90	14.5	13.4	12.2		14.3	13.2	12.1		13.8	12.9	11.9		13.4	12.6	11.7						90
95	14.3	13.1	12		14.1	13	11.9		13.7	12.7	11.7		13.3	12.4	11.5						95
100	14.1	12.9	11.8		13.9	12.8	11.7		13.5	12.5	11.6		13.2	12.3	11.4						100
105	13.9	12.7	11.7	10.1	13.7	12.6	11.6	10	13.3	12.3	11.4	10	13	12.1	11.2						105
110	13.7	12.5	11.5	10	13.5	12.4	11.4	10	13.1	12.1	11.3	9.9	12.8	11.9	11.1	9.8					110
115	13.5	12.3	11.3	9.9	13.4	12.2	11.3	9.9	13	12	11.2	9.8	12.7	11.8	11	9.8					115
120	13.3	12.2	11.2	9.8	13.2	12.1	11.2	9.8	12.8	11.8	11	9.8	12.5	11.6	10.9	9.7					120
125	13.1	12	11.1	9.8	13	11.9	11.1	9.8	12.6	11.7	10.9	9.7	12.4	11.5	10.8	9.6					125
130	12.9	11.8	11	9.7	12.8	11.8	10.9	9.7	12.5	11.5	10.8	9.6	12.2	11.3	10.7	9.6					130
135	12.7	11.7	10.8	9.6	12.6	11.6	10.8	9.6	12.3	11.4	10.7	9.6	12.1	11.2	10.6	9.5					135
140	12.5	11.6	10.7	9.6	12.4	11.5	10.7	9.6	12.1	11.3	10.6	9.5	11.9	11.1	10.5	9.5					140
145	12.3	11.4	10.6	9.6	12.3	11.4	10.6	9.5	12	11.2	10.5	9.5	11.8	11	10.4	9.5					145
150	12.1	11.3	10.5	9.6	12.1	11.2	10.5	9.5	11.8	11.1	10.4	9.5	11.7	10.9	10.3	9.4					150
155	12	11.2	10.4	9.5	11.9	11.1	10.4	9.5	11.7	11	10.3	9.5	11.5	10.8	10.3	9.4					155
160	11.8	11	10.3	9.5	11.7	11	10.3	9.5	11.5	10.8	10.2	9.5	11.4	10.7	10.2	9.4					160
165	11.6	10.9	10.2	9.5	11.5	10.9	10.2	9.5	11.3	10.7	10.1	9.4	11.3	10.6	10.1	9.4					165
170	11.5	10.8	10.1	9.5	11.2	10.7	10.1	9.5	11.2	10.6	10	9.4	11.1	10.5	10	9.4					170
175	11.3	10.7	10.1	9.5	11	10.6	10	9.5	11	10.5	10	9.4	10.9	10.4	9.9	9.4					175
180	11.2	10.6	10	9.4	10.8	10.4	9.9	9.4	10.8	10.4	9.9	9.4	10.7	10.3	9.8	9.4					180
185	11.1	10.5	9.9	9.4	10.5	10.2	9.8	9.4	10.6	10.3	9.8	9.4	10.4	10.1	9.7	9.4					185
190	10.9	10.4	9.9	9.4	10.3	10	9.6	9.3	10.5	10.1	9.7	9.4	10.2	9.9	9.6	9.4					190
195	10.8	10.3	9.8	9.4	10	9.8	9.5	9.3	10.3	10	9.6	9.4	9.9	9.7	9.5	9.3					195
200	10.6	10.2	9.8	9.4	9.8	9.6	9.4	9.2	10.1	9.9	9.5	9.3	9.7	9.5	9.3	9.3					200
205	10.5	10.1	9.7	9.4	9.5	9.4	9.3	9.1	9.9	9.7	9.5	9.3	9.4	9.3	9.1	9.1					205
210	10.3	10.1	9.7	9.4	9.3	9.3	9.1	9.1	9.8	9.6	9.4	9.3	9.1	9.1	9	9					210
215	10.1	10	9.6	9.4	9	9.1	9	9	9.6	9.5	9.3	9.3	8.9	8.9	8.8	8.9					215
220	9.8	9.8	9.6	9.4	8.7	8.9	8.9	8.9	9.4	9.3	9.2	9.2	8.6	8.7	8.6	8.7					220
225	9.3	9.6	9.5	9.4	8.3	8.6	8.8	8.8	9.2	9.2	9.2	9.2	8.4	8.5	8.5	8.6					225
230	8.8	9.2	9.3	9.4	7.8	8.3	8.5	8.8	8.7	9	9.1	9.2	8.1	8.3	8.3	8.5					230
235	8.3	8.7	8.9	9.3	7.4	7.8	8.2	8.6	8.2	8.7	8.9	9.2	7.6	8.1	8.2	8.3					235
240	7.8	8.2	8.4	9	7	7.4	7.7	8.1	7.7	8.2	8.6	8.9	7.2	7.6	7.9	8.2					240
245	7.4	7.7	7.9	8.5	6.5	6.9	7.3	7.6	7.2	7.7	8.1	8.5	6.7	7.2	7.5	7.9					245
250	6.9	7.2	7.5	7.9	6.1	6.5	6.8	7.1	6.7	7.2	7.6	7.9	6.2	6.7	7.1	7.5					250
255	6.4	6.8	7	7.4	5.6	6	6.3	6.6	6.3	6.7	7.1	7.4	5.8	6.2	6.6	6.9					255
260	5.9	6.3	6.5	6.8	5.2	5.6	5.9	6.1	5.8	6.2	6.6	6.8	5.3	5.8	6.1	6.4					260
265	5.5	5.8	6.1	6.3	4.8	5.2	5.4	5.6	5.3	5.7	6.1	6.3	4.9	5.3	5.6	5.8					265
270	5.1	5.4	5.6	5.7	4.4	4.8	5	5.1	4.9	5.2	5.6	5.7	4.4	4.8	5.1	5.3					270
275	4.6	4.9	5.1	5.2	4	4.3	4.6	4.6	4.5	4.8	5.1	5.2	4	4.3	4.6	4.8					275
280	4.2	4.5	4.7	4.7	3.7	3.9	4.1	4.1	4.1	4.4	4.6	4.6	3.6	3.9	4.1	4.2					280
285	3.8	4.1	4.2	4.2	3.3	3.6	3.7	3.6	3.7	4	4.2	4.2	3.2	3.5	3.7	3.8					285
290	3.4	3.6	3.8	3.6	2.9	3.2	3.3	3.2	3.3	3.6	3.7	3.7	2.8	3.1	3.3	3.3					290
295	3	3.2	3.3	3.1	2.5	2.7	2.9	2.7	2.9	3.1	3.3	3.2	2.4	2.7	2.9	2.8					295
300	2.6	2.8	2.9	2.5	2.1	2.3	2.5	2.1	2.5	2.7	2.9	2.7	2	2.3	2.4	2.3					300
305	2.3	2.4	2.4	1.9	1.7	1.9	2		2.1	2.3	2.4	2.2		1.8	1.9						305
310	1.9	2	2						1.6	1.8	1.9										310

maxt_268_005_02001_00_000-I-V

Lifting capacities Forces de levage

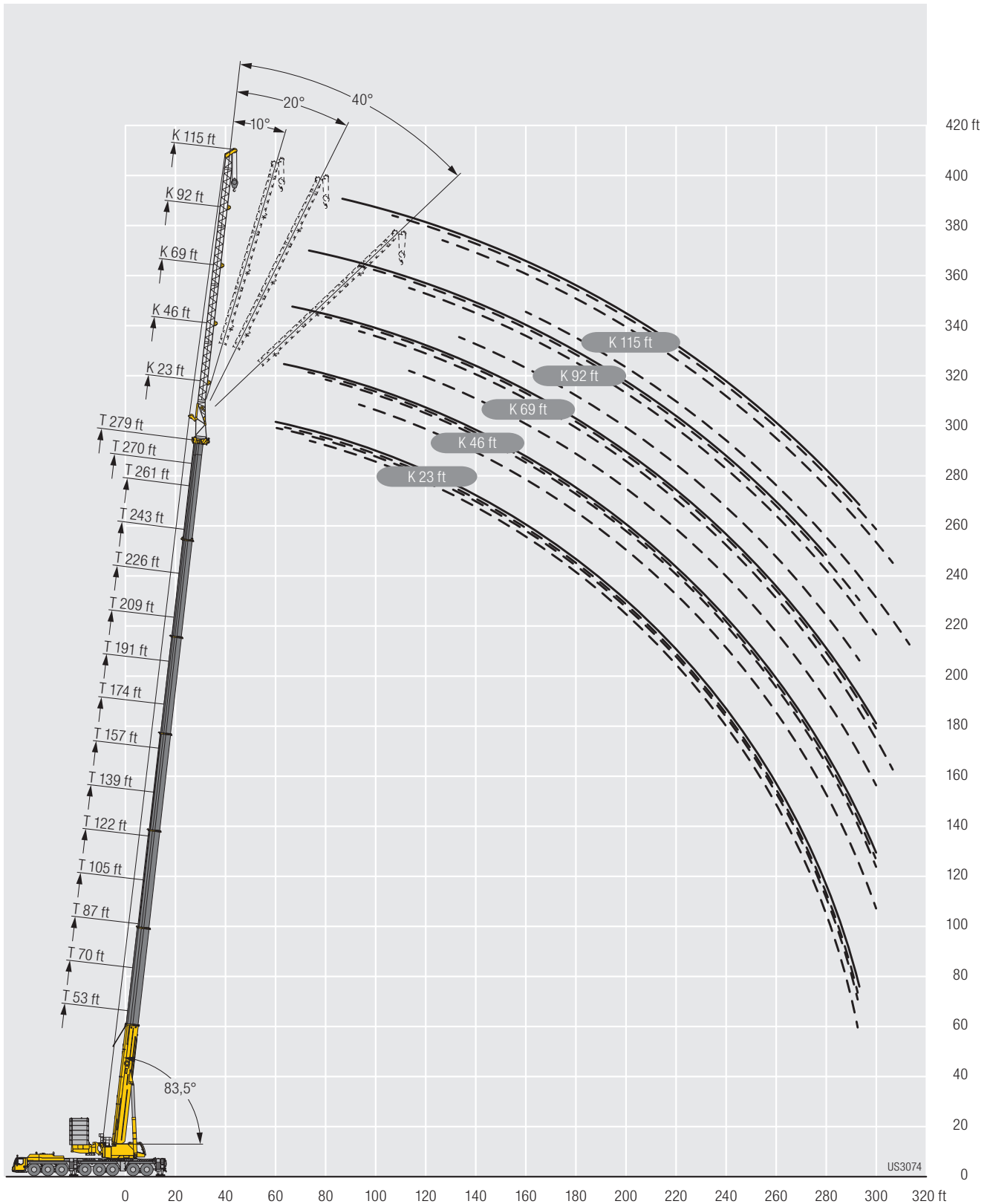
TK 92

	261 ft				264 ft				270 ft				276 ft				279 ft				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
70	9.7				9.6				9.2								9				70
75	9.7				9.7				9.4				9.1				9				75
80	9.7				9.6				9.3				9.1				9				80
85	9.6				9.5				9.2				9				8.9				85
90	9.4	8.7			9.4	8.7			9.1	8.5			8.9	8.4			8.8				90
95	9.3	8.6			9.2	8.6			9	8.4			8.8	8.2			8.7	8.2			95
100	9.2	8.5			9.1	8.4			8.9	8.3			8.7	8.1			8.6	8.1			100
105	9.1	8.3	7.5		9	8.3	7.5		8.8	8.1	7.4		8.6	8			8.5	8			105
110	9	8.2	7.4		8.9	8.2	7.4		8.7	8	7.3		8.5	7.9	7.2		8.4	7.9	7.2		110
115	8.8	8.1	7.3		8.8	8	7.2		8.6	7.9	7.2		8.4	7.8	7.1		8.3	7.7	7.1		115
120	8.7	8	7.2		8.6	7.9	7.1		8.5	7.8	7		8.3	7.7	7		8.2	7.6	7		120
125	8.6	7.9	7	5.9	8.5	7.8	7	5.9	8.3	7.7	6.9		8.2	7.6	6.9		8.1	7.5	6.9		125
130	8.4	7.7	6.9	5.9	8.4	7.7	6.9	5.9	8.2	7.6	6.8	5.8	8.1	7.5	6.8	5.8	8	7.4	6.8	5.8	130
135	8.3	7.6	6.8	5.8	8.3	7.6	6.8	5.8	8.1	7.5	6.7	5.8	8	7.4	6.7	5.7	7.9	7.3	6.7	5.7	135
140	8.2	7.5	6.7	5.8	8.2	7.5	6.7	5.8	8	7.4	6.6	5.7	7.9	7.3	6.6	5.7	7.8	7.2	6.6	5.7	140
145	8.1	7.4	6.7	5.7	8.1	7.4	6.6	5.7	7.9	7.2	6.6	5.7	7.8	7.2	6.5	5.6	7.7	7.1	6.5	5.6	145
150	8	7.3	6.6	5.7	7.9	7.2	6.5	5.7	7.8	7.1	6.5	5.7	7.7	7.1	6.4	5.6	7.7	7	6.4	5.6	150
155	7.9	7.2	6.5	5.7	7.8	7.1	6.5	5.6	7.7	7.1	6.4	5.6	7.6	7	6.3	5.6	7.6	7	6.3	5.6	155
160	7.8	7.1	6.4	5.6	7.7	7	6.4	5.6	7.6	7	6.3	5.6	7.5	6.9	6.3	5.5	7.5	6.9	6.3	5.5	160
165	7.6	7	6.3	5.6	7.6	6.9	6.3	5.6	7.5	6.9	6.3	5.5	7.4	6.8	6.2	5.5	7.4	6.8	6.2	5.5	165
170	7.5	6.8	6.3	5.6	7.5	6.8	6.2	5.6	7.4	6.8	6.2	5.5	7.3	6.7	6.1	5.5	7.3	6.7	6.1	5.5	170
175	7.4	6.7	6.2	5.6	7.4	6.7	6.2	5.5	7.3	6.7	6.1	5.5	7.2	6.6	6.1	5.5	7.2	6.6	6.1	5.5	175
180	7.3	6.6	6.1	5.5	7.3	6.6	6.1	5.5	7.2	6.6	6.1	5.5	7.1	6.5	6	5.5	7.1	6.5	6	5.4	180
185	7.2	6.5	6	5.5	7.2	6.5	6	5.5	7.1	6.5	6	5.5	7	6.4	6	5.5	7	6.4	5.9	5.4	185
190	7.1	6.5	6	5.5	7.1	6.4	6	5.5	7	6.4	5.9	5.5	7	6.3	5.9	5.4	6.8	6.3	5.9	5.4	190
195	7	6.4	5.9	5.5	7	6.4	5.9	5.5	6.9	6.3	5.9	5.5	6.9	6.3	5.8	5.4	6.7	6.2	5.8	5.4	195
200	6.9	6.3	5.9	5.5	6.9	6.3	5.9	5.4	6.8	6.2	5.8	5.4	6.8	6.2	5.8	5.4	6.5	6.1	5.8	5.4	200
205	6.8	6.3	5.8	5.4	6.8	6.2	5.8	5.4	6.7	6.2	5.8	5.4	6.7	6.1	5.7	5.4	6.4	6	5.7	5.4	205
210	6.7	6.2	5.8	5.4	6.7	6.2	5.8	5.4	6.6	6.1	5.7	5.4	6.6	6.1	5.7	5.4	6.2	5.9	5.6	5.4	210
215	6.6	6.1	5.8	5.4	6.6	6.1	5.8	5.4	6.5	6.1	5.7	5.4	6.5	6	5.7	5.4	6	5.8	5.6	5.4	215
220	6.5	6	5.7	5.4	6.5	6	5.7	5.4	6.4	6	5.7	5.4	6.4	6	5.6	5.4	5.9	5.7	5.5	5.4	220
225	6.4	6	5.7	5.4	6.4	6	5.7	5.4	6.3	5.9	5.6	5.4	6.3	5.9	5.6	5.4	5.7	5.6	5.4	5.3	225
230	6.2	5.9	5.6	5.4	6.3	5.9	5.6	5.4	6.2	5.9	5.6	5.4	6.2	5.9	5.6	5.4	5.5	5.4	5.3	5.3	230
235	6.1	5.8	5.6	5.4	6.2	5.8	5.6	5.4	6.1	5.8	5.6	5.4	6.2	5.8	5.6	5.4	5.4	5.3	5.2	5.2	235
240	5.9	5.7	5.6	5.4	5.9	5.8	5.6	5.4	6	5.8	5.6	5.4	6.1	5.8	5.5	5.4	5.2	5.2	5.1	5.2	240
245	5.7	5.6	5.5	5.4	5.6	5.7	5.5	5.4	5.8	5.7	5.5	5.4	5.9	5.7	5.5	5.4	5	5.1	5	5.1	245
250	5.5	5.4	5.4	5.4	5.3	5.4	5.4	5.4	5.6	5.6	5.5	5.4	5.7	5.6	5.5	5.4	4.8	5	5	5.1	250
255	5.3	5.3	5.3	5.4	5	5.2	5.3	5.4	5.3	5.4	5.4	5.4	5.4	5.5	5.5	5.4	4.5	4.8	4.9	5	255
260	5	5.1	5.1	5.4	4.7	4.9	5	5.3	5	5.1	5.3	5.4	5	5.3	5.4	5.4	4.2	4.6	4.8	5	260
265	4.8	4.9	5	5.2	4.4	4.6	4.8	5.1	4.7	4.9	5	5.3	4.7	5	5.2	5.4	3.8	4.3	4.7	4.9	265
270	4.6	4.7	4.8	5	4.1	4.4	4.5	4.8	4.4	4.6	4.8	5.2	4.3	4.6	4.9	5.3	3.5	4	4.3	4.7	270
275	4.4	4.6	4.6	4.9	3.8	4.1	4.2	4.5	4.2	4.4	4.5	4.9	3.9	4.3	4.5	5	3.1	3.6	4	4.4	275
280	4.2	4.4	4.5	4.7	3.5	3.8	4	4.2	3.9	4.1	4.2	4.6		3.9	4.2	4.6	2.8	3.2	3.6	4	280
285	3.9	4.2	4.3	4.5	3.2	3.5	3.7	3.9	3.6	3.8	4	4.3		3.6	3.8	4.2		2.9	3.2	3.5	285
290	3.5	3.9	4.1	4.2	2.9	3.2	3.5	3.6	3.3	3.6	3.7	3.9			3.5	3.8			2.9	3.1	290
295	3.1	3.5	3.8	3.8	2.6	2.9	3.1	3.2	3	3.3	3.5	3.6				3.3			2.5	2.7	295
300	2.8	3.1	3.3	3.3	2.2	2.5	2.8	2.8	2.6	3	3.2	3.3				2.9					300
305	2.4	2.7	2.9	2.8	1.7	2.2	2.4	2.3	2.2	2.6	2.8	2.8				2.5					305
310	2	2.3	2.5	2.2		1.7	1.9	1.7	1.8	2.2	2.4	2.3				1.9					310
315			2	1.5						1.7	1.9	1.7									315

maxt_268_005_03001_00_000-I-V

Lifting heights Hauteurs de levage

TK



Lifting capacities Forces de levage

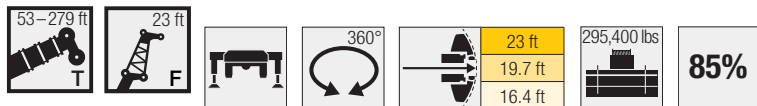
TF 23

	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*					
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°		
11	109.4																11	
12	109.4																12	
13	109.4																13	
14	109.4																14	
15	109.4	109.4															15	
16	109.4	109.4															16	
17	109.4	109.4															17	
18	109.4	109.4															18	
19	109.4	109.4	109.4														19	
20	109.4	109.4	108.6														20	
22	109.4	107.7	105		109.4												22	
24	109.1	105.5	101.2		109.4				109.4								24	
26	106.5	103.2	96.9	83.5	109.4	109.4			109.4								26	
28	103.6	100.5	92.6	80.6	109.4	109.4			109.4								28	
30	100.7	96.3	88.5	77.9	109.4	109.4	109.4		109.4	109.4				109.4			30	
32	97.8	92.1	85.1	75.2	109.4	109.4	109.4		109.4	109.4				109.4			32	
34	94.6	87.9	81.8	72.8	109.4	109.4	109.4		109.4	109.4	109.4			109.4	109.3		34	
36	91.1	84	78.5	70.5	109.4	109.4	109.4	93.5	109.4	109.4	109.4			109.4	108.8		36	
38	87.5	80.6	75.7	68.3	109.4	109.4	109.3	92.3	109.4	109.4	109.4			109.4	108.1		38	
40	83.8	77.9	73.2	66.5	109.4	109.4	108.8	91.1	109.4	109.4	109.4	90.7		109.4	107.5	108.4	40	
45	74.9	70.9	67.1	61.9	109.4	109.4	107.5	88.4	109.4	109.4	107.9	88.2		106.5	105.9	104.5	86.9	45
50	68.4	64.7	61.9	58.1	109.4	108.9	105.9	85.8	109.4	109.4	104.8	85.8		101.2	101.5	100.3	85	50
55	62.7	60	57.6	54.7	109.4	106.8	101.5	83.5	108.4	109.2	101.6	83.6		95.8	95.7	94.7	83.1	55
60	57.7	55.4	53.8	51.9	109.4	104.8	97.2	81.2	106.4	106.6	98.2	81.7		90.7	89.9	89.2	81.2	60
65	53.7	52.1	50.7	49.6	108.3	102.7	93	79.4	104.5	103.3	94.7	79.8		86	84.8	84.1	79	65
70	49.9	48.8	48.1	47.9	105.3	99.3	89.9	77.6	102.4	100.1	91.1	78.2		81.4	80.5	79.8	76.9	70
75	46.5	46.1	46	30.4	101.8	95.5	86.8	75.8	99.1	96.4	88.1	76.7		76.9	76.2	75.5	74.7	75
80					98.4	91.6	83.7	74.4	93.7	91.9	85.4	75.2		72.4	71.9	71.5	71.5	80
85					95	87.8	80.8	73	88.3	87.1	82.7	73.8		68.7	68.2	67.9	68	85
90					91.5	83.9	78.4	71.6	82.9	82.3	80.1	72.6		65.6	65	64.8	64.5	90
95					86	81.1	76.2	70.5	77.4	77.4	77.3	71.4		62.5	62	61.7	61.3	95
100					79.9	78.6	74	69.5	72.3	72.8	73.6	70.1		59.4	59.1	58.6	58.5	100
105					74.4	75.2	72	68.3	68.6	68.9	69.6	67.5		56.4	56.1	55.5	55.8	105
110					69.4	70.1	70.5	67.7	64.8	65.1	65.6	64.6		53.3	53.2	53	53.1	110
115					64.9	65.4	66	66.4	61.1	61.4	61.6	61.6		50.8	50.6	50.7	50.6	115
120					60.7	61.2	61.6	62	57.4	57.6	58.2	58.5		48.4	48.3	48.3	48.3	120
125					56.7	57.2	57.5	57.8	53.9	54.2	54.9	55.2		46.1	46.1	45.9	46	125
130					53.1	53.5	53.8	53.9	50.3	50.9	51.3	51.8		43.8	43.8	43.6	43.7	130
135					49.8	50.2	50.3		47	47.5	47.9	48.2		41.4	41.5	41.6	41.7	135
140					46.8	47	47.2		43.9	44.4	44.7	44.9		39.3	39.5	39.6	39.7	140
145					42.5	43.9	43.7		41	41.4	41.6	41.7		37.4	37.6	37.6	37.7	145
150									38.3	38.6	38.8			35.6	35.7	35.6	35.8	150
155									35.8	36	36.2			33.7	33.8	33.8	33.9	155
160									33.5	33.6	33.7			31.9	32	32.2	32.2	160
165									20.3					29.8	30.1	30.3		165
170														27.7	28	28.1		170
175														25.8	26	26.1		175
180														20.8	21			180

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 23

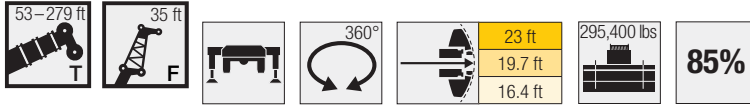


	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
34	102.3																34
36	102.5																36
38	99.8				80.6												38
40	97.1	97.5			82.5												40
45	90.7	91.3	92		77.8	78.6			66.7								45
50	85.6	85	86	82.4	73.1	74.1	74.7		63.4	64			54.2				50
55	81.1	80.4	80.2	80.4	68.6	69.6	70.5	67.3	60	60.8	61.6		51.9	51.7			55
60	76.6	76.1	75.8	77.1	65	65.5	66.2	68.3	56.7	57.4	58.3	54.1	49.6	49.7	49.9		60
65	72.1	71.9	71.7	72.1	61.8	61.7	62.3	64.1	53.7	54.3	55.1	57	47.3	47.7	48.1	48.4	65
70	68.2	67.8	67.8	68	58.6	58.6	58.5	60.2	50.8	51.3	52.1	53.9	45.1	45.7	46.3	46.9	70
75	64.9	64.5	64.4	64.7	55.6	55.6	55.5	56.4	48.4	48.5	49.2	50.8	42.8	43.6	44.2	45.2	75
80	61.6	61.4	61.2	61.4	53	52.9	52.8	53.1	46	46	46.3	47.8	40.6	41.4	42	43.1	80
85	58.4	58.2	58	58.4	50.5	50.5	50.4	50.6	43.9	43.7	43.8	45.1	38.4	39.2	39.8	41	85
90	55.1	55.1	54.9	55.7	48	48.1	48	48.3	42	41.8	41.9	42.5	36.8	37	37.6	38.9	90
95	52.6	52.3	52.4	53	45.6	45.7	45.7	46	40.1	40	40.1	40.4	35.4	35.3	35.6	36.9	95
100	50.2	50	50.1	50.3	43.3	43.4	43.5	44	38.3	38.2	38.3	38.6	34	33.9	33.9	34.8	100
105	47.9	47.8	47.7	47.9	41.2	41.4	41.5	42	36.4	36.4	36.5	37	32.5	32.6	32.5	32.9	105
110	45.6	45.5	45.3	45.8	39.5	39.6	39.7	40	34.7	34.7	34.8	35.4	31.1	31.2	31.2	31.7	110
115	43.3	43.3	43	43.7	37.7	37.8	37.9	38.1	33.1	33.1	33.4	33.8	29.7	29.8	29.9	30.4	115
120	41.1	41	40.9	41.6	36	36.1	36.1	36.4	31.7	31.8	31.9	32.3	28.3	28.5	28.6	29.2	120
125	39	39	39.1	39.6	34.2	34.4	34.2	34.8	30.4	30.4	30.6	30.8	27.2	27.3	27.5	27.9	125
130	37.3	37.3	37.3	37.8	32.5	32.7	32.5	33.1	29	29.1	29.2	29.5	26.1	26.2	26.4	26.6	130
135	35.6	35.6	35.6	36	30.8	31	31.1	31.5	27.7	27.7	27.8	28.3	25.1	25.2	25.3	25.5	135
140	33.9	33.9	33.8	34.1	29.4	29.5	29.7	30	26.3	26.4	26.4	27	24	24.1	24.2	24.4	140
145	32.2	32.2	32.2	32.4	28.1	28.2	28.3	28.6	25	25.1	25.2	25.7	23	23.1	23.1	23.4	145
150	30.5	30.5	30.7	31	26.8	26.9	26.9	27.1	23.7	23.8	24.1	24.5	21.9	22.1	22	22.3	150
155	29	29	29.3	29.5	25.5	25.6	25.6	25.7	22.6	22.8	23	23.4	20.9	21	21	21.3	155
160	27.6	27.7	27.9	28.1	24.2	24.2	24.3	24.5	21.6	21.7	21.8	22.2	19.9	20	20.1	20.3	160
165	26.3	26.3	26.5	26.7	22.9	22.9	23.2	23.3	20.5	20.7	20.7	21.1	18.9	19.1	19.2	19.4	165
170	24.9	25	25.2	25.4	21.7	21.9	22.1	22.1	19.5	19.6	19.6	20	18.1	18.2	18.3	18.5	170
175	23.5	23.7	23.9		20.7	20.9	20.9	21	18.4	18.5	18.7	19	17.2	17.3	17.4	17.6	175
180	22.3	22.4	22.6		19.7	19.9	19.8	19.9	17.4	17.5	17.7	18	16.3	16.5	16.5	16.7	180
185	21.2	21.3	21.4		18.8	18.8	18.8	18.9	16.5	16.6	16.8	17	15.5	15.6	15.6	15.8	185
190	20.1	20.2	20.2		17.8	17.8	17.9		15.7	15.8	15.9	16.1	14.6	14.7	14.8	15	190
195	18.2	18.9	18.9		16.8	16.9	17		14.9	15	15	15.2	13.8	13.9	14.1	14.1	195
200					16	16	16.1		14.1	14.2	14.2	14.4	13.1	13.2	13.3	13.3	200
205					15.1	15.1	15.2		13.3	13.4	13.5		12.4	12.6	12.6	12.5	205
210					14.3	14.3	14.3		12.6	12.7	12.8		11.8	11.9	11.8	11.9	210
215					11	11			11.9	12	12		11.3	11.3	11.1	11.2	215
220									11.4	11.4	11.4		10.6	10.7	10.6		220
225									10.8	10.8	10.8		10.1	10.1	10.1		225
230									9.5	9.9	9.8		9.5	9.6	9.6		230
235													9.2	9.2	9.2		235
240													8.8	8.8	8.8		240
245													8.4	8.4	8.4		245
250													5.8	6.1			250

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 35

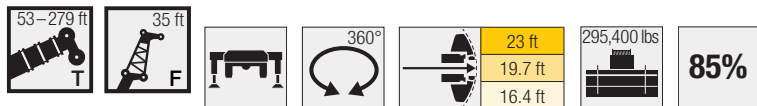


	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
14	109.4																14
15	109.4																15
16	109.4																16
17	109.4																17
18	109.4																18
19	109.4																19
20	109.4	109.4															20
22	109.4	109.4															22
24	109.4	109.3			109.4												24
26	109.4	107.2	90.2		109.4												26
28	108.9	103.9	86.7		109.4				109.4								28
30	107.7	100.7	83.3		109.4	109.1			109.4								30
32	106.5	97.4	80.5		109.4	107.3			109.4				109.1				32
34	105.3	94	77.7		109.4	105.4			109.4	104.8			107.7				34
36	104.1	90.6	75	56.3	109.3	103.5	82.2		109.4	102.6			106.3				36
38	102.3	87.1	72.3	55.1	109.2	101.6	81.2		109.4	100.4			104.8				38
40	99.6	83.7	70.2	53.9	109.1	99.6	80.2		108.8	98.2	80.2		103.4	94			40
45	90.7	75.9	65.1	51.3	108.9	94.5	77.5	55.2	106.1	93	77		99.9	90	75.3		45
50	81.8	70.2	60.6	49.1	107.8	89.3	73.9	53.9	103.4	88.8	74	54.1	94.8	86	72.7		50
55	74	64.4	57	47.1	102.9	84.4	70.4	52.5	100.7	84.7	71.1	52.7	89.6	82.3	70.2	52.6	55
60	68	59.6	53.4	45.6	97.5	80.5	67.5	51.1	97.1	80.7	68.3	51.4	84.4	79.2	68	51.4	60
65	62	55.8	50.6	44.2	92.1	76.7	64.7	49.8	92.9	77.5	65.8	50.3	79.4	76.1	65.7	50.4	65
70	57.2	52	48.1	43.3	87.3	72.9	62.1	48.7	88.7	74.5	63.5	49.2	75.5	73	63.5	49.3	70
75	53.1	49.1	45.9	42.6	83.2	69.6	59.8	47.7	84.6	71.5	61.2	48.1	71.8	69.9	61.4	48.4	75
80	49.1	46.4	44.2	42.5	79.4	66.9	57.8	46.8	80.9	68.5	59	47.3	68	66.7	59.6	47.5	80
85	45.9	44.3	43.1	42.5	75.5	64.1	55.9	45.9	77.8	66	57.3	46.5	64.2	63.5	57.7	46.7	85
90	43	42.9			71.7	61.3	53.9	45.1	74.7	63.8	55.7	45.7	61	60.5	55.9	46	90
95					68.1	58.5	52.2	44.5	71.7	61.5	54	45	58.4	57.7	54.3	45.4	95
100					65.2	56.4	50.8	43.8	68.6	59.2	52.4	44.4	55.8	55.3	52.6	44.7	100
105					62.4	54.5	49.4	43.4	65.5	56.9	50.9	43.9	53.2	52.8	51	44.1	105
110					59.7	52.7	48.1	43	62.5	55	49.7	43.3	50.6	50.3	49.3	43.7	110
115					57	50.8	46.9	42.6	59.5	53.5	48.6	43	48	47.9	47.6	43.3	115
120					54.5	49.2	46	42.5	56.5	52	47.5	42.7	45.7	45.5	45.7	42.8	120
125					52.4	47.9	45.1	42.5	53.5	50.4	46.4	42.4	43.6	43.5	43.7	42	125
130					50.5	46.6	44.2	42.4	50.5	48.9	45.4	42.3	41.7	41.7	41.7	40.7	130
135					48.7	45.4	43.5	42.4	47.7	47.2	44.5	42.3	39.8	39.8	39.7	39.3	135
140					46.9	44.1	43.1	42.4	44.8	45	43.6	42.3	37.8	37.9	37.8	38	140
145					44.8	43.5	42.7		41.9	42.6	42.6	42.1	35.9	36	36.1	36.5	145
150					42.2	42.5	42.5		39.2	39.8	40.4	40.7	34.2	34.3	34.6	35	150
155					39.7	39.9	40.1		36.6	37.2	37.7	38	32.6	32.7	33	33.5	155
160									34.3	34.7	35.2		31	31.1	31.4	31.9	160
165									32.1	32.5	32.8		29.4	29.6	29.9	30.3	165
170									30.1	30.3	30.5		27.8	28	28.4	28.8	170
175									23.8	25.1			26.4	26.7	27		175
180													24.7	25.1	25.4		180
185													23	23.3	23.6		185
190													19.9	21.4	21.4		190

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 35

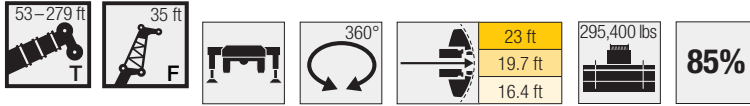


	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
38	92.3																38
40	90.1																40
45	84.6	84.3			72.4				57								45
50	79.1	79.6	70.2		68.4	69.1			58.5				48.4				50
55	74.8	74.9	68.2		64.5	65.6	64.3		55.7	56.5			47				55
60	71	70.4	66.1	51.1	60.9	61.9	62		52.9	53.8	54.2		45.4	45.4			60
65	67.3	66.8	63.6	50	57.5	58.3	59.1	49.3	50.2	51.1	51.9		43.7	43.9	43.5		65
70	63.5	63.4	61.4	49.1	54.5	55.1	56.1	48.4	47.7	48.5	49.5	47.1	42	42.4	42.3		70
75	60.3	59.9	59.4	48.2	51.8	51.9	53	47.6	45.1	46	47.1	46.4	40.1	40.8	41	40.4	75
80	57.5	57.1	57.2	47.4	49.1	49.2	49.8	46.9	42.6	43.5	44.7	45.5	38.2	39	39.6	39.4	80
85	54.7	54.4	54.6	46.7	47	46.8	46.7	46	40.6	41	42.3	43.6	36.3	37.1	37.8	38.2	85
90	51.9	51.8	52.1	46	44.9	44.8	44.7	44.4	38.8	38.8	39.9	41.6	34.3	35.2	36	36.9	90
95	49.1	49.2	49.5	45	42.8	42.8	42.8	42.7	37.1	37.2	37.6	39.6	32.5	33.4	34.2	35.5	95
100	46.8	46.5	47.1	44.1	40.7	40.8	40.8	41.1	35.6	35.7	35.8	37.4	31.2	31.6	32.4	34	100
105	44.8	44.6	45.1	43.3	38.7	38.9	38.9	39.5	34	34.1	34.3	35.3	30	29.9	30.7	32.4	105
110	42.8	42.7	43.1	42.4	36.8	37	37.2	37.8	32.4	32.6	32.8	33.2	28.8	28.6	29.1	30.6	110
115	40.9	40.8	41.2	41.2	35.3	35.4	35.6	36.2	30.8	31.1	31.3	31.9	27.6	27.5	27.5	28.8	115
120	38.9	38.9	39.2	39.7	33.8	33.9	34.1	34.6	29.4	29.7	29.9	30.6	26.3	26.4	26.5	27.2	120
125	37	37	37.3	37.9	32.3	32.4	32.5	33	28.2	28.5	28.7	29.3	25.1	25.3	25.5	25.9	125
130	35.1	35.2	35.5	36.1	30.8	31	31	31.6	27	27.3	27.6	28	24.1	24.3	24.5	24.9	130
135	33.4	33.5	34	34.4	29.3	29.5	29.5	30.2	25.8	26.2	26.4	26.7	23.1	23.3	23.6	23.9	135
140	32	32.1	32.4	32.8	27.8	28	28	28.8	24.7	25	25.2	25.6	22.2	22.4	22.6	23	140
145	30.5	30.6	30.9	31.3	26.4	26.7	26.8	27.4	23.5	23.9	24	24.4	21.3	21.5	21.7	22	145
150	29.1	29.2	29.3	29.8	25.2	25.4	25.6	26.1	22.3	22.8	22.9	23.3	20.4	20.6	20.7	21.1	150
155	27.6	27.7	27.9	28.3	24.1	24.3	24.4	24.9	21.2	21.7	21.9	22.2	19.5	19.6	19.8	20.2	155
160	26.2	26.3	26.7	27	22.9	23.1	23.2	23.7	20.1	20.6	20.9	21.2	18.6	18.7	18.8	19.3	160
165	24.9	25	25.5	25.8	21.8	21.9	22	22.4	19.2	19.7	19.9	20.2	17.6	17.8	17.9	18.3	165
170	23.8	23.9	24.2	24.5	20.7	20.8	20.9	21.3	18.3	18.7	18.9	19.2	16.8	16.9	17.1	17.4	170
175	22.6	22.8	23	23.4	19.6	19.6	19.9	20.2	17.3	17.8	17.8	18.1	16	16.1	16.3	16.6	175
180	21.5	21.6	21.9	22.3	18.6	18.7	18.9	19.2	16.4	16.8	16.8	17.1	15.2	15.4	15.5	15.8	180
185	20.3	20.5	20.8	21.2	17.7	17.8	17.9	18.2	15.5	15.9	16	16.2	14.5	14.6	14.7	15	185
190	19.3	19.4	19.7		16.8	16.9	17	17.3	14.5	15	15.2	15.4	13.7	13.8	13.9	14.1	190
195	18.3	18.5	18.6		16	16	16	16.4	13.8	14.2	14.4	14.5	12.9	13.1	13.1	13.3	195
200	17.4	17.5	17.6		15.1	15.1	15.2	15.5	13.1	13.5	13.6	13.7	12.2	12.3	12.5	12.6	200
205	16.5	16.5	16.7		14.2	14.3	14.4		12.5	12.8	12.8	12.9	11.4	11.6	11.9	12	205
210	11.8	12.1			13.5	13.6	13.7		11.8	12.1	12	12.2	10.8	11	11.3	11.3	210
215					12.8	12.8	12.9		11.1	11.3	11.4	11.4	10.4	10.5	10.7	10.7	215
220					12.1	12.1	12.2		10.5	10.7	10.9		9.9	10	10.1	10.1	220
225					9.2	10.2	9.7		10	10.2	10.3		9.4	9.5	9.5	9.6	225
230									9.5	9.7	9.7		8.9	9	9	9.1	230
235									9.1	9.3	9.3		8.4	8.5	8.6		235
240									8.7	8.8	8.8		8	8.1	8.2		240
245									6.7				7.6	7.7	7.7		245
250													7.2	7.3	7.3		250
255													6.9	6.9	6.9		255
260													4.5	4.5			260

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 35



	243 ft + 7.5 ft*				259 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
55	39.1																				55
60	38.1				28.4																60
65	36.9	36.4			27.5	26.1			30				24				23.4				65
70	35.8	35.3	34.9		26.5	25.3			29.2	28.9			23.3	23.1			22.8	22.6			70
75	34.6	34.2	34		25.5	24.5	24.4		28.3	28.1	28		22.6	22.5			22.1	22.1			75
80	33.3	33.1	33	32.9	24.6	23.7	23.7		27.4	27.2	27.2		21.9	21.8	21.9		21.5	21.4	21.5		80
85	32	32	31.9	32	23.8	23	23	23	26.6	26.4	26.4	25.6	21.2	21.2	21.3		20.8	20.8	20.9		85
90	30.7	30.8	30.9	31	22.9	22.2	22.3	22.3	25.8	25.6	25.6	24.9	20.5	20.5	20.6	20.9	20.1	20.1	20.3	20.6	90
95	29.4	29.6	29.9	30.1	22.1	21.5	21.6	21.7	25.1	24.9	24.8	24.2	19.9	19.9	20	20.3	19.3	19.5	19.6	20	95
100	28	28.5	28.9	29.2	21.3	20.7	20.8	21	24.3	24.1	24.1	23.6	19.3	19.3	19.4	19.7	18.5	18.7	19	19.4	100
105	26.7	27.3	27.8	28.3	20.5	20	20.1	20.4	23.5	23.4	23.4	22.9	18.6	18.7	18.8	19.2	17.7	18	18.3	18.8	105
110	25.4	26.1	26.8	27.3	19.7	19.2	19.4	19.7	22.8	22.7	22.6	22.2	18	18.1	18.2	18.5	16.9	17.3	17.6	18.3	110
115	24.1	24.8	25.5	26.2	18.9	18.5	18.7	19.1	21.9	21.9	21.9	21.6	17.4	17.5	17.6	17.9	16.1	16.5	16.9	17.7	115
120	22.8	23.5	24.2	25.1	18.1	17.8	18	18.4	20.9	21.1	21.1	21	16.7	16.9	17	17.3	15.4	15.8	16.3	17.1	120
125	21.8	22.2	22.9	23.9	17.3	17.2	17.3	17.7	19.9	20.1	20.2	20.4	16.1	16.3	16.4	16.8	14.6	15	15.5	16.4	125
130	21	20.9	21.6	22.7	16.6	16.5	16.7	17.1	18.8	19.1	19.4	19.8	15.5	15.7	15.8	16.2	13.9	14.3	14.8	15.6	130
135	20.3	20.2	20.2	21.5	15.8	15.8	16	16.4	17.8	18.2	18.5	19.1	14.8	15.1	15.2	15.6	13.1	13.6	14	14.8	135
140	19.5	19.4	19.5	20.3	15	15.2	15.4	15.8	16.7	17.2	17.6	18.4	14.2	14.5	14.6	15.1	12.4	12.8	13.3	14	140
145	18.8	18.7	18.8	19	14.3	14.5	14.7	15.1	15.7	16.2	16.7	17.5	13.6	13.9	14.1	14.5	11.7	12.1	12.5	13.3	145
150	18	18	18.1	18.2	13.5	13.9	14.1	14.5	14.7	15.3	15.8	16.7	13	13.3	13.5	13.9	10.9	11.3	11.7	12.5	150
155	17.3	17.3	17.4	17.5	12.9	13.2	13.5	13.8	13.8	14.4	14.9	15.8	12.3	12.7	12.8	13.3	10.2	10.6	11	11.8	155
160	16.6	16.6	16.7	16.9	12.2	12.6	12.8	13.2	13	13.5	14	14.9	11.7	12	12.2	12.7	9.5	9.9	10.3	11	160
165	15.8	15.9	16	16.2	11.6	12	12.2	12.6	12.2	12.7	13.1	14.1	11	11.4	11.5	12.1	8.8	9.2	9.6	10.3	165
170	15.1	15.2	15.3	15.5	10.9	11.3	11.5	11.9	11.3	11.8	12.2	13.2	10.3	10.7	10.8	11.6	8.2	8.6	9	9.5	170
175	14.3	14.5	14.7	14.9	10.3	10.7	10.9	11.3	10.5	11	11.3	12.3	9.6	10	10.1	10.9	7.6	8	8.3	8.8	175
180	13.6	13.7	14	14.2	9.6	10.1	10.3	10.7	9.7	10.1	10.4	11.4	8.8	9.2	9.4	10.2	7	7.4	7.7	8.1	180
185	12.9	13.1	13.4	13.6	8.9	9.5	9.7	10.1	8.8	9.3	9.5	10.6	8.1	8.5	8.8	9.5	6.4	6.7	7	7.5	185
190	12.3	12.5	12.7	12.9	8.3	8.9	9.1	9.4	8	8.4	8.8	9.7	7.4	7.8	8.1	8.7	5.8	6.1	6.3	6.8	190
195	11.8	12	12.1	12.2	7.7	8.3	8.5	8.8	7.2	7.7	8.1	8.9	6.7	7.1	7.4	8	5.1		5.7	6.2	195
200	11.2	11.4	11.4	11.6	7.2	7.8	8	8.3	6.5	6.9	7.3	8.1	6	6.4	6.7	7.2			5.1	5.5	200
205	10.7	10.8	10.8	10.9	6.7	7.2	7.4	7.7	5.9	6.3	6.6	7.4	5.3	5.7	6.1	6.5			4.5	4.9	205
210	10.1	10.3	10.2	10.3	6.2	6.7	6.9	7.1	5.2	5.6	5.9	6.6	4.7	5	5.4	5.8			4	4.3	210
215	9.6	9.7	9.7	9.8	5.7	6.2	6.3	6.5	4.6	4.9	5.2	5.9	4.1	4.5	4.8	5.1			3.4	3.7	215
220	9	9.1	9.2	9.4	5.2	5.7	5.8	6	3.9	4.3	4.5	5.1	3.5	3.9		4.4			2.7	3.1	220
225	8.5	8.7	8.7	8.9	4.7	5.2	5.3	5.5				3.8	4.5	2.8	3.2					2.3	225
230	8.1	8.2	8.3	8.4	4.2	4.7	4.8	5				3.2	3.8	2.1	2.5						230
235	7.6	7.7	7.8	7.9	3.7	4.2	4.4	4.5				2.4	3.1		1.7						235
240	7.2	7.3	7.3	7.4	3.3	3.8	3.9	4				1.7									240
245	6.7	6.8	6.9	6.9	2.9	3.4	3.5	3.5													245
250	6.3	6.3	6.5		2.4	3	3	3.1													250
255	5.8	5.9	6		1.9	2.5	2.5	2.6													255
260	5.5	5.6	5.6			1.9	2														260
265	5.2	5.2	5.2																		265
270	4.8	4.9	4.8																		270
275	4.3	4.5	4.5																		275

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 46

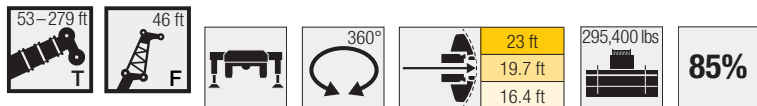
53-279 ft
46 ft
360°
23 ft
19.7 ft
16.4 ft
295,400 lbs
85%

	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
15	109.4																15
16	109.4																16
17	109.4																17
18	109.4																18
19	109.4																19
20	109.4																20
22	108.3																22
24	106.2	91.7															24
26	104.1	87.3			108.8												26
28	101.9	82.8			107.6												28
30	99.8	79	63.4		105.9				107.9								30
32	96.3	75.6	61.1		104.6				105.1								32
34	91.9	72.3	58.8		103.2	79.6			102.3				94.7				34
36	87.6	68.9	56.6		101.5	77.7			99.5				92.7				36
38	83.2	65.7	54.8		99.5	75.7			96.7	74.1			90.7				38
40	78.8	63.3	53		96.8	73.8			93.9	72.6			88.7				40
45	69.8	57.6	48.7	37.3	90	69.3	55.7		88.2	68.7	55.2		83.7	66.7			45
50	63.4	52.2	45.3	35.4	83.3	65.7	53		83	65.1	53.5		79.3	63.7	53		50
55	57.1	48.3	42.1	33.7	77.7	62.1	50.5	36.3	77.9	62.2	51.7		75.5	60.8	51.1		55
60	50.9	44.7	39.5	32.2	73.3	58.7	48	35.2	73	59.2	49.6	35.4	71.8	58.4	49.3	35.3	60
65	47.1	41	37.2	30.9	69	56	45.9	34.2	69.5	56.4	47.5	34.5	68	56.1	47.6	34.5	65
70	43.3	38.4	34.9	29.9	64.6	53.3	44.1	33.3	66.1	54.1	45.6	33.6	64.4	53.7	45.9	33.7	70
75	39.6	36	33.1	28.9	61	50.6	42.2	32.5	62.7	51.9	44	32.8	61.9	51.6	44.2	33	75
80	36.9	33.6	31.5	28.2	58	48.2	40.5	31.7	59.4	49.7	42.4	32.1	59.3	49.9	42.8	32.2	80
85	34.4	31.8	30	27.7	55.2	46.2	39.2	31	56.5	47.5	40.7	31.3	56.7	48.2	41.4	31.6	85
90	31.9	30.2	28.9	27.6	52.4	44.3	37.8	30.3	54.3	45.7	39.4	30.8	54.2	46.4	40.1	31	90
95	30	28.7	27.9	27.6	49.5	42.3	36.5	29.7	52	44.1	38.3	30.2	51.9	44.6	38.8	30.4	95
100	28.2	27.6	27.8		46.8	40.4	35.2	29.2	49.7	42.5	37.1	29.6	50.1	43	37.7	29.9	100
105					44.6	38.6	34.1	28.7	47.4	40.9	35.9	29.1	48.2	41.7	36.7	29.5	105
110					42.7	37.3	33.2	28.3	45.2	39.2	34.8	28.7	46.4	40.4	35.7	29	110
115					40.8	36	32.3	28	43.2	37.7	33.8	28.3	44.6	39.1	34.8	28.6	115
120					38.9	34.7	31.4	27.7	41.7	36.5	33	28	42.7	37.8	33.8	28.3	120
125					37	33.4	30.5	27.4	40.1	35.4	32.2	27.7	40.9	36.5	32.8	28	125
130					35.6	32.3	29.8	27.3	38.5	34.4	31.4	27.5	39.2	35.3	32.2	27.6	130
135					34.3	31.5	29.2	27.3	37	33.3	30.7	27.3	37.6	34.4	31.5	27.4	135
140					33.1	30.6	28.5	27.2	35.5	32.2	30.1	27.2	36	33.5	30.9	27.3	140
145					31.8	29.7	28	27.2	34.3	31.4	29.5	27.2	34.4	32.7	30.3	27.2	145
150					30.6	28.9	27.7	27.2	33.2	30.7	29	27.2	32.8	31.8	29.6	27	150
155					29.7	28.4	27.5		32.2	29.9	28.5	27.2	31.1	31	29	27	155
160					28.8	27.9	27.3		31.1	29.2	28.1	27.2	29.7	29.9	28.4	27	160
165					27.9	27.5	27.3		30	28.5	27.9	27.2	28.4	28.6	27.8	27	165
170					24.1	26.8			29.3	28.1	27.7		27	27.3	27.1	27	170
175									28.5	27.8	27.5		25.6	26	26.3	26.3	175
180									27	27.3	27.4		24.3	24.7	25.1	25.2	180
185									22.4	25	24.7		23.1	23.5	23.9		185
190													22	22.4	22.6		190
195													20.5	20.9	21.3		195
200													19	19.4	19.6		200
205													10.4				205

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 46

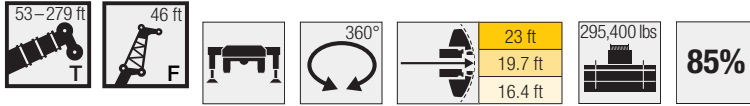


Height (ft)	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				Height (ft)
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
40	81.4																40
45	77.5				66.8												45
50	73.7	60.9			63.5				53.2								50
55	69.8	58.6	49.7		60.2	55			51.1				42.8				55
60	65.9	56.3	48.2		56.9	53.3	46.3		48.9	49.5			41.4				60
65	62.6	54.4	46.7	34.3	54	51.6	45.1		46.8	47.5			40.1	39.6			65
70	59.4	52.6	45.3	33.6	51.1	49.7	43.9	33.1	44.6	45.5	41.8		38.7	38.5	28.1		70
75	56.3	50.8	43.9	32.9	48.2	47.6	42.7	32.5	42.5	43.5	40.9		37.3	37.3	36.6		75
80	53.7	48.9	42.6	32.2	45.8	45.5	41.6	31.9	40.3	41.5	39.9	31.3	35.6	36.1	35.5		80
85	51.3	46.9	41.3	31.5	43.6	43.6	40.5	31.3	38.1	39.4	38.6	30.8	33.9	34.7	34.4	30	85
90	48.9	45.6	40.2	31	41.8	41.6	39.4	30.8	36	37.3	37.1	30.3	32.3	33.1	33.2	29.6	90
95	46.6	44.2	39.1	30.5	40	39.9	38.1	30.3	34.5	35.2	35.7	29.8	30.6	31.5	31.9	29.2	95
100	44.2	42.8	37.9	30	38.1	38.2	36.6	29.8	33.1	33.2	34.2	29.4	29	30	30.6	28.8	100
105	42.2	41.4	36.8	29.5	36.4	36.6	35.5	29.4	31.7	31.8	32.5	29	27.5	28.4	29.2	28.5	105
110	40.3	40	35.7	29.1	34.6	34.9	34.4	28.9	30.3	30.5	30.8	28.7	26.2	27	27.9	28.1	110
115	38.6	38.4	34.9	28.8	32.9	33.3	33.2	28.5	28.9	29.1	29.3	28.3	25.2	25.5	26.5	27.2	115
120	36.9	36.8	34.1	28.4	31.6	31.9	32	28.2	27.6	27.8	28	27.9	24.2	24.2	25.1	26.1	120
125	35.3	35.2	33.3	28	30.2	30.6	30.8	27.9	26.3	26.6	26.8	27	23.2	23.3	23.7	25	125
130	33.6	33.7	32.6	27.7	28.9	29.3	29.5	27.6	25.2	25.4	25.7	26	22.2	22.4	22.5	23.8	130
135	31.9	32.1	31.7	27.5	27.6	28	28.2	27.2	24.2	24.4	24.7	25	21.3	21.5	21.7	22.5	135
140	30.3	30.5	30.7	27.3	26.3	26.8	27	26.4	23.2	23.4	23.7	24	20.4	20.7	20.9	21.2	140
145	29	29.1	29.4	27	25	25.5	25.7	25.5	22.2	22.4	22.6	23	19.6	19.9	20.1	20.3	145
150	27.7	27.9	28.1	26.4	23.6	24.3	24.5	24.5	21.2	21.4	21.6	22	18.8	19.1	19.3	19.6	150
155	26.4	26.6	26.8	25.8	22.5	23.1	23.4	23.6	20.2	20.4	20.6	21.1	18	18.2	18.4	18.8	155
160	25.2	25.4	25.5	25.1	21.5	22	22.3	22.6	19.1	19.4	19.6	20.1	17.2	17.4	17.6	18	160
165	23.9	24.1	24.3	24.5	20.5	21	21.2	21.6	18.2	18.5	18.7	19.1	16.4	16.6	16.8	17.2	165
170	22.7	22.9	23.2	23.5	19.5	20	20.1	20.5	17.3	17.6	17.8	18.2	15.6	15.8	16	16.4	170
175	21.6	21.8	22.1	22.4	18.5	18.9	19	19.4	16.5	16.7	16.9	17.3	14.8	15	15.2	15.6	175
180	20.6	20.8	21.1	21.3	17.5	17.9	18	18.4	15.6	15.9	16	16.4	14	14.3	14.5	14.8	180
185	19.6	19.8	20	20.3	16.5	16.9	17.1	17.5	14.8	15	15.2	15.5	13.4	13.6	13.8	14	185
190	18.6	18.8	19	19.3	15.7	16	16.3	16.5	14	14.2	14.3	14.7	12.8	13	13.1	13.3	190
195	17.7	17.9	18.1	18.3	14.9	15.2	15.4	15.6	13.1	13.3	13.6	13.8	12.1	12.3	12.4	12.6	195
200	16.7	16.9	17.2		14.1	14.5	14.6	14.8	12.3	12.5	12.9	13.1	11.5	11.7	11.7	11.9	200
205	15.8	16	16.3		13.4	13.7	13.7	13.9	11.7	11.9	12.2	12.3	10.9	11.1	11	11.2	205
210	15	15.2	15.4		12.6	12.9	13	13.2	11.2	11.3	11.5	11.5	10.2	10.4	10.4	10.6	210
215	14.2	14.3	14.5		11.9	12.2	12.3		10.6	10.7	10.8	10.8	9.6	9.8	9.9	10.1	215
220	10.1	10.7			11.2	11.5	11.6		10.1	10.2	10.2	10.3	9.1	9.3	9.4	9.6	220
225					10.7	10.9	10.9		9.5	9.6	9.7	9.7	8.6	8.8	8.9	9.1	225
230					10.2	10.3	10.4		9	9.1	9.2		8.1	8.3	8.4	8.6	230
235					9	9.8	9.8		8.5	8.6	8.7		7.7	7.8	7.9	8.1	235
240									8.1	8.2	8.2		7.2	7.3	7.5	7.6	240
245									7.7	7.8	7.8		6.7	6.8	7		245
250									7.2	7.4	7.3		6.2	6.4	6.5		250
255									5.4	5.5			5.9	6	6.1		255
260													5.5	5.6	5.6		260
265													5.2	5.2	5.3		265
270													3.5	4.5	4.2		270

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 46



	243 ft + 7.5 ft*				259 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
60	34				24.2				26.4								21				60
65	33				23.5				25.8					21.4							65
70	32	31.5			22.8	22.5			25.1	24.7			20.8				20.4				70
75	31	30.6	25.5		22.1	21.9			24.4	24.2			20.2	20			19.8				75
80	30	29.7	29.4		21.4	21.3	21.1		23.7	23.5	23.3		19.6	19.6			19.2	19.2			80
85	29	28.7	28.6		20.7	20.6	20.5		23	22.8	22.7		19	19	19		18.6	18.7			85
90	27.9	27.8	27.7	27.1	20	20	19.9		22.3	22.2	22.1		18.4	18.4	18.5		18	18.1	18.1		90
95	26.9	26.9	26.9	26.3	19.3	19.3	19.3	19.4	21.7	21.5	21.5	21.2	17.8	17.8	17.9		17.4	17.5	17.6		95
100	25.8	26	26.1	25.6	18.7	18.7	18.6	18.8	21.1	20.9	20.9	20.7	17.2	17.2	17.4	17.6	16.7	17	17.1	17.3	100
105	24.7	25.1	25.3	24.8	18	18.1	18.1	18.3	20.5	20.3	20.3	20.1	16.7	16.7	16.9	17.2	16	16.3	16.5	17	105
110	23.6	24.2	24.5	24.1	17.3	17.4	17.5	17.7	19.9	19.7	19.8	19.6	16.1	16.2	16.3	16.7	15.3	15.7	16	16.5	110
115	22.5	23.2	23.7	23.4	16.6	16.8	16.9	17.2	19.2	19.2	19.2	19.1	15.6	15.7	15.8	16.2	14.6	15.1	15.4	16	115
120	21.4	22.2	22.8	22.8	16	16.1	16.3	16.6	18.6	18.6	18.6	18.6	15	15.1	15.3	15.7	13.9	14.4	14.8	15.5	120
125	20.2	21.1	21.7	22.1	15.4	15.5	15.7	16.1	17.8	18	18	18.1	14.5	14.6	14.7	15.2	13.2	13.8	14.3	15	125
130	19.1	19.9	20.6	21.4	14.8	14.9	15.1	15.5	17	17.3	17.4	17.5	13.9	14.1	14.2	14.7	12.5	13.1	13.7	14.5	130
135	18.1	18.8	19.5	20.7	14.1	14.3	14.6	14.9	16.2	16.6	16.8	17	13.3	13.5	13.7	14.2	11.8	12.5	13	13.9	135
140	17.4	17.7	18.4	19.9	13.5	13.7	14	14.4	15.4	15.8	16.2	16.5	12.8	13	13.2	13.7	11.2	11.8	12.4	13.3	140
145	16.8	16.8	17.3	18.9	12.9	13.2	13.4	13.8	14.7	15.1	15.6	16	12.2	12.5	12.7	13.2	10.5	11.1	11.7	12.6	145
150	16.1	16.1	16.3	17.9	12.3	12.6	12.9	13.3	13.9	14.4	15	15.4	11.7	12	12.2	12.7	9.9	10.4	11	11.9	150
155	15.5	15.5	15.4	16.8	11.7	12	12.3	12.7	13.1	13.7	14.4	14.8	11.1	11.4	11.7	12.2	9.2	9.8	10.3	11.2	155
160	14.9	14.9	14.8	15.7	11.1	11.4	11.7	12.2	12.4	13	13.7	14.1	10.5	10.9	11.2	11.7	8.5	9.1	9.6	10.5	160
165	14.2	14.3	14.2	14.7	10.5	10.9	11.1	11.6	11.6	12.2	12.9	13.4	10	10.4	10.6	11.2	7.8	8.4	9	9.9	165
170	13.6	13.7	13.7	13.7	10	10.3	10.6	11.1	10.9	11.5	12.1	12.7	9.3	9.8	10	10.7	7.3	7.8	8.3	9.2	170
175	13	13.1	13.1	13.2	9.4	9.7	10	10.5	10.1	10.7	11.3	12	8.7	9.2	9.4	10.2	6.7	7.2	7.7	8.5	175
180	12.4	12.5	12.6	12.7	8.8	9.2	9.4	10	9.4	9.9	10.5	11.3	8	8.6	8.8	9.7	6.1	6.6	7.1	7.8	180
185	11.7	11.9	12	12.2	8.3	8.6	8.9	9.4	8.6	9.2	9.7	10.5	7.4	7.9	8.1	9.2	5.6	6	6.5	7.1	185
190	11.1	11.4	11.5	11.7	7.7	8	8.3	8.8	7.8	8.4	8.9	9.6	6.8	7.2	7.5	8.5	5	5.4	5.9	6.5	190
195	10.6	10.8	11	11.2	7.2	7.5	7.7	8.3	7.1	7.7	8	8.8	6.1	6.6	6.9	7.8	4.4	4.9	5.3	5.9	195
200	10.1	10.3	10.6	10.7	6.6	6.9	7.2	7.7	6.3	6.9	7.4	8	5.5		6.3	7.1	3.8	4.3		5.3	200
205	9.6	9.8	10.1	10.3	6.1	6.4	6.7	7.2	5.7	6.2	6.7	7.2			5.6	6.4					205
210	9	9.3	9.6	9.8	5.6	5.9	6.2	6.6	5.1	5.6	6	6.5			5	5.7					210
215	8.5	8.8	9.1	9.3	5.2	5.5	5.7	6.1	4.5	4.9	5.3	5.8			4.4	5					215
220	8.1	8.3	8.6	8.9	4.7	5	5.2	5.6	3.9	4.3		5.1			3.8	4.3					220
225	7.5	7.8	8.2	8.4	4.3	4.5	4.7	5	3.3	3.7		4.4			3.1	3.7					225
230	7	7.3	7.7	7.9	3.8	4.1	4.2	4.5	2.4	3		3.7				2.9					230
235	6.6	6.8	7.2	7.4		3.6	3.8	4				2.9									235
240	6.2	6.4	6.8	6.9		3.1	3.3	3.5				2.1									240
245	5.8	6	6.3	6.4		2.6	2.9	3													245
250	5.4	5.5	5.9	6		2.1	2.3	2.4													250
255	5	5.1	5.4	5.5			1.7	1.8													255
260	4.6	4.7	5																		260
265	4.2	4.3	4.6																		265
270	3.8	3.9	4.2																		270
275	3.6	3.6	3.8																		275
280	3.3	3.3	3.5																		280
285		3	3.1																		285

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 57

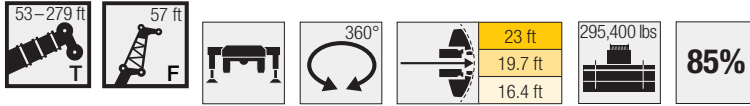
53-279 ft
57 ft
360°
23 ft
19.7 ft
16.4 ft
295,400 lbs
85%

	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
17	109.4																17
18	109.4																18
19	109.4																19
20	109.4																20
22	109.4																22
24	108.4																24
26	104.9																26
28	100.6	85.4			103.3												28
30	96.3	82			100.7												30
32	92	78.6			97.9				92.9								32
34	87.8	75.4			95.2				90.9								34
36	84.2	72.6	63.6		92.4				88.8				82.4				36
38	81.1	70	61.7		89.7	74			86.7				80.9				38
40	78	67.3	59.7		87.1	72.6			84.6				79.4				40
45	70.3	61.1	55.1		82.2	68.7			79.8	67.2			75.9				45
50	63.7	56.5	51		77.4	65.1	55		75.8	64			72.4	61.8			50
55	58.9	51.9	47.5	40.4	72.5	62.1	54.1		72	61.1	53.8		69.4	59.4			55
60	54.1	48.3	44.4	38.5	68.6	59.1	52.3		68.2	58.7	51.9		66.6	57	50.9		60
65	49.3	45.2	41.5	36.6	65.3	56.2	50	39.4	64.7	56.2	50		63.8	55	49.2		65
70	45.7	42.1	39.3	34.9	62	53.8	47.7	38.1	62.1	53.8	48.1	38.1	60.9	53.1	47.6		70
75	42.8	39.3	37.1	33.4	58.7	51.5	45.9	36.9	59.5	51.7	46.2	37	58.5	51.2	46.1	36.9	75
80	39.9	37.1	35	32.1	55.8	49.2	44.1	35.9	56.9	49.9	44.6	36	56.5	49.4	44.5	36	80
85	37.1	35.1	33.4	31	53.4	46.9	42.3	34.9	54.3	48	43.1	35.1	54.5	47.8	43	35.2	85
90	35.1	33	31.8	29.9	51.2	45.2	40.7	34	52	46.1	41.6	34.3	52.5	46.3	41.8	34.3	90
95	33.2	31.5	30.3	29.2	48.9	43.5	39.4	33.2	50.1	44.4	40.1	33.4	50.5	44.8	40.5	33.6	95
100	31.2	30	29.3	28.6	46.6	41.8	38.1	32.4	48.3	42.9	38.9	32.7	48.6	43.3	39.3	32.9	100
105	29.8	28.8	28.3	28.6	44.3	40.1	36.8	31.7	46.4	41.5	37.8	32.1	46.8	41.7	38	32.2	105
110	28.3	27.9	28		42.4	38.4	35.6	31	44.6	40.1	36.7	31.4	45	40.5	37	31.6	110
115					40.8	37	34.5	30.4	42.8	38.7	35.6	30.8	43.2	39.3	36.1	31.1	115
120					39.3	35.9	33.6	29.9	40.9	37.3	34.6	30.3	41.4	38.2	35.2	30.5	120
125					37.8	34.8	32.6	29.4	39.6	36.1	33.6	29.8	39.6	37	34.3	30	125
130					36.3	33.7	31.7	29	38.4	35	32.9	29.4	37.8	35.9	33.4	29.6	130
135					34.9	32.5	30.9	28.6	37.1	34.1	32.1	29	36.2	34.8	32.5	29.2	135
140					33.7	31.6	30.2	28.3	35.9	33.2	31.3	28.7	34.7	33.6	31.8	28.9	140
145					32.7	30.8	29.6	28.1	34.6	32.3	30.6	28.3	33.3	32.4	31.1	28.5	145
150					31.7	30	29	28	33.4	31.3	29.9	28	31.9	31.2	30.4	28.2	150
155					30.6	29.3	28.4	27.9	32.5	30.6	29.5	27.9	30.5	30	29.7	28	155
160					29.6	28.5	28.1	27.9	31.6	29.9	29	27.9	29.1	28.8	29	27.8	160
165					28.9	28	27.8		30.8	29.3	28.5	27.8	27.7	27.6	28	27.4	165
170					28.3	27.7	27.5		30	28.7	28	27.8	26.4	26.5	26.9	26.6	170
175					27.6	27.3	27.5		29.1	28.1	27.8	27.8	25.3	25.4	25.8	25.8	175
180					26.4	27.2			28	27.5	27.6		24.1	24.2	24.7	24.9	180
185									26.3	27	27.3		22.9	23.1	23.6	23.8	185
190									24.7	25.2	25.6		21.8	22	22.5	22.8	190
195									22.5	23.6	23.8		20.7	21	21.5		195
200													19.8	20	20.4		200
205													18.7	19.1	19.3		205
210													17.5	17.8	18		210
215													12.3	12.4			215
220																	220
225																	225
230																	230

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 57



	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
45	70.4				50												45
50	67.8				59.3				44.6								50
55	65.1	56.5			56.5				47.4				39				55
60	62.2	54.6			53.6	51.8			45.6				38				60
65	59	52.8	47.6		50.9	50.3			43.9	44			36.9				65
70	55.8	51.1	46.2		48.4	48.9	44.2		42.1	42.6			35.8	34.8			70
75	53.1	49.6	44.9		45.9	47.3	43.1		40.2	41	40.3		34.7	33.9			75
80	50.5	48.1	43.7	35.6	43.4	45.1	42.1		38.4	39.5	39.3		33.4	32.9	32.3		80
85	48.2	46.6	42.5	34.8	41.1	42.8	40.9	34.1	36.5	37.8	38.2		32	31.9	31.4		85
90	46.2	44.9	41.3	34.1	39.2	40.5	39.6	33.5	34.6	36	37	32.4	30.6	30.8	30.4		90
95	44.1	43	40	33.4	37.6	38.2	38.4	32.8	32.7	34.1	35.3	31.9	29.1	29.5	29.5	25.5	95
100	42.1	41.4	38.8	32.8	36	36.1	37.1	32.2	31.1	32.3	33.6	31.3	27.7	28.3	28.5	28.5	100
105	40	39.8	37.7	32.2	34.5	34.6	35.5	31.7	29.8	30.6	31.9	30.9	26.3	27.1	27.6	27.7	105
110	38.2	38.2	36.7	31.6	32.9	33.2	33.6	31.2	28.6	29	30.2	30.5	25	25.9	26.6	26.9	110
115	36.6	36.6	35.7	31	31.4	31.8	32	30.7	27.5	27.5	28.6	29.8	23.7	24.7	25.6	26.1	115
120	35.1	35.1	34.5	30.6	29.8	30.3	30.6	30.1	26.3	26.3	27.1	28.7	22.5	23.5	24.5	25.4	120
125	33.7	33.7	33.4	30.1	28.6	29	29.3	29.3	25.1	25.3	25.6	27.4	21.7	22.2	23.3	24.5	125
130	32.2	32.4	32.2	29.7	27.5	27.8	28.1	28.3	23.9	24.2	24.4	26	20.9	21	22.1	23.5	130
135	30.7	31	30.9	29	26.3	26.7	27	27.3	23	23.1	23.5	24.7	20.1	20.1	20.8	22.5	135
140	29.3	29.6	29.7	28.4	25.2	25.6	25.9	26.3	22	22.2	22.5	23.3	19.3	19.4	19.6	21.4	140
145	27.8	28.2	28.6	27.7	24	24.5	24.8	25.3	21.1	21.3	21.6	22	18.5	18.7	18.7	20.2	145
150	26.6	26.9	27.4	27	22.9	23.5	23.7	24.2	20.2	20.4	20.8	21.2	17.8	18	18	19.1	150
155	25.5	25.7	26.2	26.3	21.8	22.4	22.7	23.2	19.4	19.6	19.9	20.4	17	17.3	17.3	17.8	155
160	24.3	24.6	25	25.3	20.7	21.3	21.6	22.1	18.5	18.7	19	19.5	16.3	16.5	16.6	16.6	160
165	23.2	23.4	23.8	24.2	19.7	20.3	20.6	21	17.5	17.8	18.1	18.6	15.6	15.8	16	16	165
170	22.1	22.3	22.6	23.1	18.8	19.4	19.6	20	16.7	17	17.2	17.7	14.9	15.1	15.3	15.4	170
175	21	21.2	21.5	22	17.9	18.5	18.7	19	15.8	16.1	16.4	16.8	14.1	14.4	14.6	14.8	175
180	19.9	20.1	20.6	20.9	17	17.5	17.7	18.1	15.1	15.3	15.6	16	13.4	13.6	13.9	14.2	180
185	19	19.1	19.6	20	16.1	16.6	16.7	17.2	14.4	14.6	14.8	15.1	12.7	12.9	13.2	13.6	185
190	18.1	18.3	18.7	19	15.2	15.7	15.8	16.2	13.6	13.9	14	14.4	12.1	12.3	12.7	12.9	190
195	17.3	17.5	17.8	18	14.3	14.8	15.1	15.4	12.9	13.1	13.3	13.6	11.5	11.7	12.1	12.4	195
200	16.4	16.6	16.9	17.2	13.6	14.1	14.3	14.6	12.2	12.4	12.5	12.8	11	11.1	11.5	11.8	200
205	15.6	15.8	16.1	16.3	12.9	13.4	13.5	13.8	11.4	11.7	11.8	12.1	10.4	10.6	10.9	11.2	205
210	14.8	15	15.3		12.3	12.7	12.8	13	10.7	11	11.3	11.5	9.9	10.1	10.3	10.6	210
215	14	14.2	14.5		11.6	12	12	12.3	10.1	10.4	10.7	10.9	9.3	9.5	9.7	10.1	215
220	13.3	13.4	13.7		11	11.3	11.4	11.5	9.7	9.9	10.2	10.3	8.8	9	9.2	9.5	220
225	12.5	12.6	12.9		10.4	10.7	10.9		9.2	9.4	9.6	9.7	8.2	8.5	8.7	9.1	225
230	9.9	11.5	11.4		9.8	10.1	10.3		8.8	9	9.1	9.2	7.7	8	8.2	8.6	230
235					9.4	9.6	9.8		8.3	8.5	8.6	8.7	7.3	7.5	7.7	8.1	235
240					9	9.2	9.3		7.8	8	8.1		6.9	7.1	7.2	7.7	240
245					8.5	8.7	8.7		7.4	7.6	7.7		6.4	6.6	6.8	7.1	245
250					6.5	5.6			7	7.1	7.2		6	6.2	6.3	6.6	250
255									6.6	6.7	6.8		5.6	5.7	5.9		255
260									6.2	6.3	6.3		5.1	5.3	5.4		260
265									4.3	4.8			4.8	4.9	5		265
270													4.5	4.6	4.6		270
275													4.2	4.2	4.2		275
280													3.5	3.9	3.9		280

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

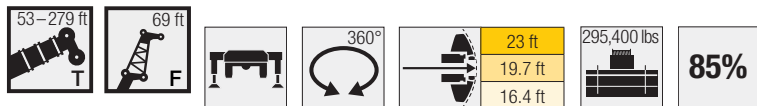
TF 57

	243 ft + 7.5 ft*				259 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*					
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°		
60	30.8																				60	
65	30				21.4					23.5											65	
70	29.1	24.2			20.8					22.9				18.9				18.5			70	
75	28.3	27.8			20.2	19.8				22.3				18.4				18.1			75	
80	27.4	27			19.6	19.4				21.7	21.4			17.9				17.5			80	
85	26.5	26.2	25.4		19	18.8				21	20.9			17.4	17.3			17	17		85	
90	25.7	25.4	24.7		18.4	18.2	18.2			20.4	20.3	19.9		16.8	16.8			16.5	16.5		90	
95	24.8	24.6	24		17.8	17.7	17.6			19.9	19.7	19.5		16.3	16.3	16.3		16	16.1	16	95	
100	24	23.9	23.3	23.5	17.2	17.1	17.1			19.3	19.2	19		15.8	15.9	15.9		15.4	15.6	15.6	100	
105	23.1	23.2	22.7	22.9	16.6	16.6	16.6	16.1		18.8	18.6	18.5	17.8	15.3	15.4	15.5		14.8	15.1	15.2	105	
110	22.3	22.5	22.1	22.3	16	16	16.1	15.7		18.2	18.1	18.1	17.4	14.8	14.9	15.1	15	14.2	14.6	14.8	110	
115	21.4	21.8	21.4	21.7	15.4	15.5	15.6	15.2		17.7	17.6	17.6	16.9	14.3	14.4	14.6	14.6	13.6	14	14.4	14.5	115
120	20.4	21.1	20.8	21	14.8	14.9	15.1	14.7		17.1	17.1	17.1	16.4	13.8	13.9	14.1	14.2	13	13.5	13.9	14.1	120
125	19.4	20.4	20.1	20.4	14.3	14.4	14.5	14.3		16.5	16.5	16.6	15.9	13.3	13.5	13.7	13.8	12.4	12.9	13.4	13.7	125
130	18.4	19.3	19.4	19.8	13.7	13.9	14.1	13.9		15.8	16	16.1	15.5	12.8	13	13.2	13.4	11.8	12.4	12.9	13.3	130
135	17.4	18.3	18.6	19.2	13.2	13.4	13.6	13.5		15.2	15.4	15.6	15.1	12.3	12.5	12.7	13	11.2	11.8	12.4	12.9	135
140	16.3	17.3	17.8	18.6	12.6	12.8	13.1	13		14.5	14.8	15.1	14.7	11.8	12.1	12.3	12.6	10.6	11.2	11.8	12.5	140
145	15.4	16.3	17.1	17.9	12.1	12.3	12.6	12.6		13.9	14.3	14.6	14.3	11.4	11.6	11.8	12.2	10	10.6	11.3	12	145
150	14.8	15.3	16.3	17.2	11.5	11.8	12.1	12.1		13.2	13.7	14.1	13.9	10.9	11.1	11.4	11.8	9.3	10	10.7	11.5	150
155	14.3	14.3	15.5	16.5	11	11.3	11.6	11.7		12.5	13.1	13.6	13.5	10.4	10.7	10.9	11.4	8.7	9.4	10	11	155
160	13.8	13.7	14.6	15.6	10.4	10.8	11.1	11.3		11.9	12.5	13.1	13.1	9.8	10.2	10.5	11	8.1	8.8	9.4	10.4	160
165	13.3	13.2	13.8	14.8	9.9	10.2	10.6	10.8		11.2	11.8	12.6	12.6	9.3	9.7	10	10.6	7.5	8.2	8.8	9.9	165
170	12.8	12.7	12.9	13.9	9.4	9.7	10.1	10.4		10.5	11.2	12	12.1	8.8	9.3	9.6	10.2	6.9	7.5	8.1	9.3	170
175	12.3	12.3	12.2	13.1	8.9	9.2	9.6	10		9.8	10.6	11.3	11.6	8.3	8.8	9.1	9.7	6.3	6.9	7.5	8.6	175
180	11.7	11.8	11.7	12.2	8.3	8.7	9.1	9.5		9.1	9.8	10.5	11.1	7.7	8.3	8.6	9.3	5.8	6.3	6.9	8	180
185	11.2	11.4	11.3	11.4	7.8	8.2	8.6	9.1		8.4	9.1	9.8	10.6	7.1	7.7	8	8.8	5.3	5.8	6.4	7.4	185
190	10.7	10.9	10.8	11	7.3	7.7	8.1	8.6		7.7	8.4	9.1	10	6.5	7.1	7.4	8.4	4.7	5.3	5.8	6.7	190
195	10.2	10.4	10.3	10.6	6.8	7.2	7.6	8.1		7.1	7.7	8.3	9.3	5.9	6.5	6.8	7.9	4.2	4.8	5.3	6.1	195
200	9.7	10	9.9	10.2	6.3	6.7	7.1	7.6		6.4	7	7.6	8.6	5.3	5.9	6.3	7.3	3.7	4.2	4.7	5.5	200
205	9.3	9.5	9.5	9.8	5.8	6.2	6.5	7.1		5.7	6.3	6.9	7.8	4.8	5.3	5.7	6.8	3	3.7	4.2	4.9	205
210	8.8	9.1	9.1	9.4	5.3	5.7	6.1	6.6		5	5.7	6.2	7			5.1	6.1	2.3			4.3	210
215	8.4	8.6	8.7	9	4.9	5.2	5.6	6.1		4.4	5	5.6	6.3			4.6	5.4				3.8	215
220	7.9	8.2	8.2	8.6	4.4	4.8	5.1	5.6		3.8	4.4	4.9	5.6			4	4.7					220
225	7.5	7.7	7.8	8.2	4	4.4	4.7	5.1		3.3	3.8	4.3	4.9			3.4	4.1					225
230	7	7.3	7.4	7.7	3.6	3.9	4.2	4.6		2.6	3.2		4.2			2.8	3.4					230
235	6.6	6.8	7	7.3	3.2	3.5	3.7	4.1		1.8	2.5		3.6			2.1	2.7					235
240	6.1	6.4	6.5	6.8	2.7	3	3.3	3.6									1.9					240
245	5.7	5.9	6.1	6.4	2.1	2.5	2.8	3.1														245
250	5.4	5.5	5.7	5.9			2.2	2.5														250
255	5	5.2	5.3	5.4			1.7	1.9														255
260	4.6	4.8	4.9	5																		260
265	4.2	4.4	4.5	4.5																		265
270	3.8	4	4.1																			270
275	3.5	3.6	3.7																			275
280	3.1	3.2	3.3																			280
285	2.9	2.9	2.9																			285
290	2.6	2.6	2.6																			290
295	2.3	2.3	2.3																			295

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 69

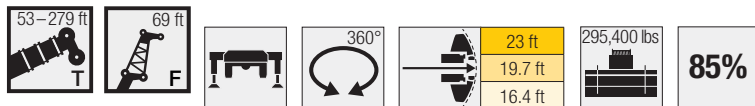


	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
19	107.8																19
20	105.9																20
22	102																22
24	98.2																24
26	94.4																26
28	90.6																28
30	87				87												30
32	83.3	71.5			84.8												32
34	79.7	68.9			82.6				79.4								34
36	76	66.3			80.3				77.7								36
38	72.5	63.8			78.1				76				70.6				38
40	69.9	61.6			75.9				74.3				69.4				40
45	63.9	56.4	50.6		71.2	59.5			70				66.2				45
50	57.9	51.3	46.6		67.2	56.4			66.4	55.2			63.1	53.8			50
55	52.8	47.7	43.4		63.3	53.5	47		63.2	52.7			60.2	52			55
60	49.1	44	40.3		59.5	51.1	45		60	50.4	44.5		57.8	49.9			60
65	45.3	40.7	37.9	31.7	56.5	48.7	43.1		56.9	48.4	42.8		55.4	47.9	41.9		65
70	41.6	38.3	35.4	30.3	53.9	46.4	41.2		54.2	46.4	41.2		53	46.3	40.5		70
75	38.4	35.9	33.4	28.9	51.2	44.4	39.4	31	52	44.5	39.6	30.9	50.7	44.7	39.2		75
80	36	33.4	31.6	27.7	48.5	42.6	37.8	30.1	49.8	42.8	38.1	30.1	48.7	43.1	37.9	30	80
85	33.7	31.4	29.9	26.5	46.2	40.7	36.3	29.2	47.7	41.2	36.6	29.3	47	41.6	36.7	29.2	85
90	31.4	29.8	28.3	25.5	44.2	38.8	34.9	28.4	45.6	39.7	35.4	28.5	45.2	40.3	35.4	28.5	90
95	29.5	28.1	27	24.6	42.4	37.3	33.5	27.6	43.6	38.1	34.2	27.8	43.6	39	34.4	27.8	95
100	27.9	26.5	25.7	23.7	40.5	35.9	32.4	26.8	42.1	36.6	33	27.1	41.9	37.7	33.3	27.1	100
105	26.4	25.3	24.5	23.1	38.7	34.5	31.3	26.2	40.6	35.4	31.9	26.5	40.4	36.4	32.3	26.5	105
110	24.9	24.2	23.6	22.6	36.8	33.2	30.3	25.6	39	34.2	31	25.9	39.1	35.1	31.3	26	110
115	23.7	23.1	22.8	22.6	35.1	31.8	29.2	25	37.5	33.1	30.1	25.4	37.9	33.9	30.3	25.4	115
120	22.6	22.3	22.3		33.7	30.4	28.3	24.5	36	31.9	29.2	24.9	36.7	33	29.6	25	120
125					32.5	29.4	27.4	24	34.4	30.8	28.3	24.4	35.4	32	28.8	24.6	125
130					31.3	28.5	26.7	23.6	33.2	29.7	27.4	23.9	34.2	31.1	28.1	24.1	130
135					30	27.6	25.9	23.2	32.1	28.7	26.7	23.5	33	30.1	27.3	23.7	135
140					28.8	26.7	25.2	22.9	31.1	27.9	26.1	23.1	31.8	29.2	26.6	23.4	140
145					27.7	25.8	24.5	22.6	30	27.1	25.5	22.8	30.6	28.2	25.9	23.1	145
150					26.8	25.1	24	22.3	29	26.4	24.9	22.6	29.5	27.5	25.3	22.7	150
155					26	24.4	23.5	22.1	27.9	25.6	24.2	22.3	28.4	26.8	24.8	22.4	155
160					25.2	23.8	23	22	27	24.9	23.7	22.1	27.3	26.1	24.3	22.2	160
165					24.3	23.2	22.5	22	26.3	24.2	23.3	21.9	26.1	25.4	23.8	22.1	165
170					23.5	22.6	22.2	22	25.5	23.7	22.9	21.9	25	24.7	23.3	21.9	170
175					23	22.2	21.9	22	24.8	23.2	22.5	21.9	23.9	24	22.7	21.7	175
180					22.4	21.8	21.7		24.1	22.7	22.1	21.8	22.9	23.2	22.1	21.6	180
185					21.9	21.5	21.6		23.4	22.2	21.9	21.8	21.9	22.3	21.6	21.5	185
190					21.6	21.4	21.6		22.9	21.8	21.7	21.8	20.9	21.3	21	21.4	190
195									22.4	21.6	21.6		19.9	20.4	20.4	20.9	195
200									22	21.4	21.5		18.9	19.5	19.6	20	200
205									20.9	21.2	21.4		18	18.5	18.7	19	205
210									12.8	15.4			17.2	17.6	17.8		210
215													16.4	16.7	16.9		215
220													15.4	15.8	16		220
225													10.8	13.4	8.1		225

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 69

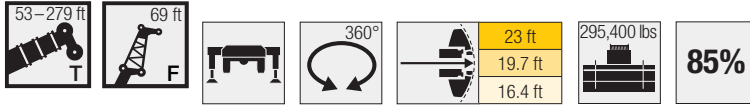


Lifting height (ft)	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				Lifting height (ft)
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
45	60.9																45
50	58.6				53.2												50
55	56.4				51.4				43.1				25.9				55
60	54.2	47.6			49.4				41.7				34.2				60
65	52.1	46			47.5	43.1			40.3				33.2				65
70	50.1	44.5	39.3		45.5	41.9			38.9	38.4			32.2				70
75	48	43.1	38.2		43.4	40.8	36.5		37.4	37.4			31.2	30.4			75
80	46.3	41.8	37.1		41.2	39.5	35.6		35.8	36.3	31		30.2	29.5			80
85	44.6	40.6	36	28.9	39.1	38.2	34.8		34.1	35.2	32.9		29.1	28.6	24.7		85
90	42.9	39.3	35	28.2	37	36.8	33.9	27.9	32.5	33.9	32.2		27.9	27.7	27.4		90
95	41.1	38	34	27.8	35	35.5	33	27.7	30.8	32.4	31.4		26.8	26.8	26.5		95
100	39.4	36.6	33	27.5	33.6	34.1	32.2	27.4	29.2	30.8	30.5	26.5	25.6	25.9	25.7		100
105	37.6	35.6	32.1	27.1	32.3	32.7	31.3	26.9	27.7	29.2	29.4	26.1	24.4	25	24.9	24.5	105
110	35.8	34.6	31.2	26.6	30.9	31.1	30.4	26.4	26.3	27.6	28.3	25.6	23.3	24	24.2	24	110
115	34.2	33.6	30.3	26.1	29.6	29.7	29.2	25.9	25.3	26.2	27.2	25.2	22.1	23.1	23.5	23.3	115
120	32.8	32.6	29.5	25.6	28.2	28.5	28	25.5	24.3	24.8	26.1	24.8	21	22.1	22.8	22.6	120
125	31.5	31.5	28.5	25.2	26.9	27.3	27.1	25.1	23.2	23.5	24.8	24.4	19.9	21.1	22.1	21.9	125
130	30.2	30.3	27.8	24.8	25.8	26.1	26.1	24.6	22.2	22.3	23.4	23.8	18.9	20	21.1	21.3	130
135	28.9	29.2	27.2	24.5	24.8	24.9	25.2	24	21.2	21.4	22	23.3	18.2	18.9	20.1	20.6	135
140	27.6	28	26.5	24.1	23.8	23.9	24.3	23.4	20.3	20.6	20.8	22.7	17.5	17.8	19	20	140
145	26.4	26.9	25.9	23.7	22.8	23	23.3	22.8	19.5	19.7	20.1	21.9	16.9	16.8	17.8	19.3	145
150	25.1	25.7	25.3	23.4	21.8	22	22.3	22.2	18.7	18.9	19.3	20.7	16.2	16.2	16.7	18.6	150
155	23.9	24.6	24.6	23.1	20.7	21.1	21.4	21.7	17.9	18.1	18.5	19.5	15.6	15.6	15.7	17.8	155
160	22.8	23.5	23.7	22.9	19.7	20.1	20.4	20.9	17.1	17.4	17.7	18.2	14.9	15	14.9	16.8	160
165	21.9	22.4	22.7	22.6	18.7	19.2	19.4	20	16.3	16.6	16.9	17.2	14.3	14.4	14.4	15.8	165
170	20.9	21.4	21.6	22	17.8	18.2	18.5	19	15.5	15.8	16.1	16.5	13.6	13.8	13.8	14.8	170
175	19.9	20.4	20.6	21.1	17	17.3	17.6	18.1	14.7	15	15.3	15.8	13	13.3	13.3	13.7	175
180	18.9	19.5	19.6	20.1	16.1	16.5	16.8	17.2	13.9	14.2	14.6	15.1	12.3	12.7	12.7	12.8	180
185	17.9	18.5	18.6	19.1	15.3	15.7	16	16.4	13.2	13.5	13.9	14.3	11.7	12.1	12.2	12.3	185
190	17	17.5	17.7	18.2	14.5	14.9	15.1	15.6	12.6	12.9	13.2	13.6	11	11.5	11.7	11.9	190
195	16.2	16.6	16.9	17.3	13.7	14.1	14.3	14.8	12	12.3	12.6	12.9	10.4	11	11.1	11.4	195
200	15.5	15.9	16.1	16.5	12.9	13.2	13.4	14	11.4	11.7	11.9	12.3	9.9	10.4	10.6	11	200
205	14.7	15.1	15.3	15.6	12.1	12.4	12.8	13.2	10.8	11.1	11.2	11.7	9.3	9.9	10.2	10.5	205
210	14	14.4	14.4	14.8	11.5	11.8	12.1	12.5	10.2	10.5	10.6	11	8.8	9.4	9.7	10	210
215	13.2	13.6	13.7	14	11	11.2	11.5	11.8	9.6	9.9	10	10.4	8.4	8.9	9.2	9.6	215
220	12.5	12.9	13	13.3	10.5	10.7	10.9	11.1	9	9.3	9.5	9.9	7.9	8.4	8.7	9.1	220
225	11.9	12.2	12.3		10	10.2	10.2	10.5	8.5	8.8	9	9.4	7.4	7.9	8.2	8.6	225
230	11.2	11.5	11.7		9.5	9.6	9.7	9.9	8	8.3	8.5	8.9	6.9	7.5	7.7	8.1	230
235	10.6	10.9	11		8.9	9.1	9.2	9.3	7.5	7.8	8	8.4	6.4	7	7.3	7.6	235
240	9.6	10.3	10.3		8.5	8.6	8.7		7.1	7.3	7.5	7.9	5.9	6.5	6.8	7.1	240
245	5.4				8.1	8.2	8.3		6.6	6.8	7	7.3	5.5	6.1	6.4	6.6	245
250					7.6	7.8	7.8		6.2	6.4	6.5		5.2	5.7	5.9	6.1	250
255					7.2	7.4	7.4		5.7	5.9	6.1		4.8	5.3	5.4	5.6	255
260					4.9	5.1			5.3	5.5	5.6		4.4	4.8	5	5.1	260
265									5	5.1	5.2		4	4.4	4.6		265
270									4.6	4.7	4.7		3.6	4	4.1		270
275									3	4.4	4.3		3.2	3.6	3.7		275
280													3	3.3	3.3		280
285													2.7	3	3		285
290													2.4	2.6	2.6		290

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 69

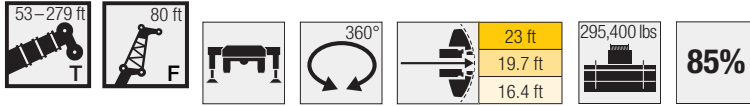


Crane Height	243 ft + 7.5 ft*				259 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*				Crane Height		
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°			
60	23.5																			60			
65	26.2				19.1						20.9									65			
70	25.5				18.5						20.4			16.7						70			
75	24.8	20.7			18						19.8			16.3				16		75			
80	24	23.7			17.4	17.1					19.3			15.8				15.5		80			
85	23.3	23.1			16.9	16.7					18.7	18.4		15.4				15.1		85			
90	22.7	22.4	18.5		16.4	16.2					18.2	17.9		14.9	14.8			14.6	14.6	90			
95	22	21.7	21.7		15.9	15.7	15.4				17.7	17.5	16.9	14.4	14.4			14.2	14.2	95			
100	21.4	21.1	21.1		15.3	15.2	15				17.2	17	16.6	14	14	13.9		13.7	13.8	100			
105	20.8	20.5	20.4		14.8	14.7	14.6				16.7	16.6	16.2	13.5	13.6	13.6		13.2	13.3	105			
110	20.2	19.9	19.8	19.7	14.3	14.2	14.2				16.2	16.1	15.8	13.1	13.2	13.3		12.6	12.9	110			
115	19.5	19.4	19.3	19.3	13.7	13.8	13.8	13			15.7	15.7	15.4	14.3	12.6	12.8	12.9		12.1	12.5	115		
120	18.9	18.8	18.7	18.8	13.2	13.3	13.3	12.6			15.2	15.2	14.9	14	12.2	12.4	12.5	12.1	11.6	12	120		
125	18.1	18.2	18.2	18.3	12.7	12.8	12.9	12.2			14.7	14.7	14.5	13.7	11.8	11.9	12.1	11.8	11	11.5	11.7	125	
130	17.2	17.6	17.6	17.8	12.2	12.3	12.5	11.9			14.2	14.3	14.1	13.3	11.3	11.5	11.7	11.4	10.5	11	11.5	11.3	130
135	16.3	16.9	17	17.2	11.7	11.9	12	11.5			13.6	13.8	13.6	13	10.9	11.1	11.3	11.1	9.9	10.5	11	11.1	135
140	15.4	16.1	16.4	16.7	11.2	11.4	11.6	11.2			13	13.3	13.2	12.6	10.4	10.7	10.9	10.9	9.4	10	10.6	10.8	140
145	14.6	15.3	15.8	16.1	10.7	10.9	11.2	10.9			12.5	12.8	12.8	12.2	10	10.2	10.5	10.6	8.8	9.5	10.2	10.6	145
150	13.7	14.5	15.1	15.6	10.2	10.5	10.7	10.6			11.9	12.3	12.4	11.9	9.5	9.8	10.1	10.4	8.3	9	9.7	10.3	150
155	12.8	13.7	14.4	15.1	9.7	10	10.3	10.4			11.3	11.8	12	11.6	9.1	9.4	9.7	10.1	7.7	8.5	9.2	10	155
160	12.2	12.9	13.8	14.5	9.2	9.6	9.9	10.1			10.7	11.3	11.6	11.3	8.6	9	9.3	9.8	7.1	7.9	8.7	9.6	160
165	11.7	12.2	13.1	13.9	8.7	9.1	9.5	9.8			10.2	10.8	11.3	11	8.2	8.6	8.9	9.4	6.6	7.3	8.1	9.1	165
170	11.3	11.4	12.3	13.2	8.3	8.7	9	9.5			9.6	10.2	10.9	10.7	7.7	8.2	8.5	9.1		6.8	7.5	8.6	170
175	10.9	10.8	11.6	12.5	7.8	8.2	8.6	9.1			8.9	9.7	10.5	10.3	7.3	7.7	8.1	8.7		6.2	6.9	8.1	175
180	10.4	10.4	10.8	11.8	7.3	7.8	8.1	8.6			8.3	9.1	10	9.9	6.8	7.3	7.7	8.3		5.6	6.4	7.6	180
185	10	10	10.1	11.1	6.8	7.3	7.7	8.2			7.7	8.5	9.3	9.5	6.3	6.9	7.3	7.9		5.1	5.8	7	185
190	9.5	9.6	9.7	10.4	6.4	6.8	7.2	7.8			7.1	7.8	8.6	9.1	5.8	6.4	6.8	7.5		4.6	5.2	6.4	190
195	9.1	9.2	9.4	9.6	5.9	6.4	6.8	7.4			6.4	7.2	7.9	8.7	5.2	5.8	6.2	7.1		4.1	4.7	5.8	195
200	8.6	8.8	9	9.2	5.4	5.9	6.3	7			5.8	6.5	7.2	8.2	4.7	5.3	5.7	6.7		3.5	4.2	5.2	200
205	8.2	8.4	8.7	8.9	5	5.4	5.8	6.5			5.2	5.9	6.6	7.6	4.1	4.7	5.2	6.3		2.9	3.7	4.6	205
210	7.7	8	8.3	8.6	4.5	5	5.4	6					5.9	6.9	3.5	4.2	4.6	5.8		2.3	3	4.1	210
215	7.3	7.6	7.9	8.3	4	4.5	4.9	5.5					5.2	6.2	2.8	3.6		5.3		1.7	2.3	3.5	215
220	6.9	7.2	7.4	7.9	3.6	4.1	4.5	5					4.6	5.5			2.9	4.6				2.8	220
225	6.5	6.8	7	7.5	3.2	3.6	4	4.6					4	4.8			2.2					2	225
230	6.1	6.4	6.6	7	2.6	3.2	3.6	4.1					3.4	4.2									230
235	5.7	6	6.2	6.6	2.1	2.7	3.1	3.6					2.7	3.5									235
240	5.3	5.6	5.8	6.1	1.6	2.2	2.6	3.1						2.8									240
245	4.9	5.2	5.4	5.7		1.7	2	2.6						1.9									245
250	4.5	4.8	5	5.3																			250
255	4.1	4.4	4.6	4.8																			255
260	3.8	4	4.2	4.4																			260
265	3.4	3.6	3.8	4																			265
270	3.1	3.3	3.4	3.5																			270
275	2.7	2.9	3	3.1																			275
280	2.4	2.5	2.7																				280
285	1.9	2.1	2.3																				285
290		1.6	1.8																				290

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 80



	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
22	94.5																22
24	90.2																24
26	85.8																26
28	81.6																28
30	77.9																30
32	75				75.3												32
34	72.2				73.5												34
36	69.3	60.1			71.6				68								36
38	66.4	58.1			69.8				66.6								38
40	63.5	56.1			67.9				65.1				60.7				40
45	57.9	51.5			63.4				61.6				58				45
50	53.3	47.3	42.7		60	50.7			58.2	49.2			55.4				50
55	48.7	43.3	39.5		56.8	48.1			55.4	47.2			52.7	45.3			55
60	44.7	40.3	36.8		53.4	45.8	39.4		52.8	45.1			50.6	43.6			60
65	41.6	37.4	34.3		50.4	43.8	37.8		50.2	43.2	37.3		48.6	41.9			65
70	38.6	34.5	32.2	27.5	48.1	41.9	36.1		47.5	41.5	36		46.6	40.3	35.2		70
75	35.6	32.6	30.3	26.3	45.9	39.9	34.6		45.6	39.9	34.6		44.5	39	34.1		75
80	32.8	30.6	28.4	25.2	43.7	38.2	33.1	26.7	43.7	38.2	33.3		42.6	37.6	33		80
85	30.7	28.7	26.9	24.2	41.5	36.6	31.7	26	41.9	36.7	32	26	41.2	36.3	31.9		85
90	28.8	26.8	25.5	23.2	39.6	35	30.5	25.2	40.1	35.4	30.8	25.2	39.8	35	30.8	25.1	90
95	27	25.3	24.1	22.2	37.9	33.4	29.3	24.5	38.4	34.1	29.7	24.6	38.3	33.9	29.7	24.4	95
100	25.2	24	22.8	21.3	36.3	32	28.2	23.8	36.8	32.8	28.7	23.9	36.9	32.8	28.7	23.8	100
105	23.8	22.7	21.8	20.5	34.7	30.8	27.1	23.1	35.5	31.5	27.7	23.3	35.5	31.7	27.9	23.3	105
110	22.6	21.4	20.9	19.8	33.2	29.7	26.2	22.5	34.2	30.4	26.7	22.7	34.1	30.7	27	22.7	110
115	21.3	20.5	19.9	19.2	31.6	28.5	25.4	21.9	32.9	29.3	25.9	22.2	33	29.6	26.1	22.2	115
120	20.1	19.6	19.2	18.8	30.1	27.4	24.5	21.4	31.6	28.4	25.1	21.7	31.9	28.6	25.3	21.7	120
125	19.2	18.7	18.5	18.6	28.8	26.2	23.6	20.9	30.4	27.4	24.4	21.2	30.9	27.8	24.6	21.3	125
130	18.3	18.1	18		27.8	25.2	22.9	20.4	29.1	26.4	23.6	20.7	29.8	27	24	20.9	130
135	17.7	17.6			26.7	24.4	22.2	20	27.9	25.4	22.9	20.3	28.8	26.2	23.3	20.5	135
140					25.7	23.6	21.6	19.6	27	24.5	22.2	20	27.7	25.4	22.7	20.1	140
145					24.6	22.8	21	19.3	26.1	23.8	21.6	19.6	26.7	24.6	22.1	19.8	145
150					23.6	22.1	20.4	19	25.2	23.1	21.1	19.3	25.8	23.8	21.5	19.5	150
155					22.7	21.3	19.8	18.7	24.3	22.4	20.6	18.9	25	22.9	20.9	19.2	155
160					22	20.7	19.4	18.5	23.5	21.8	20.1	18.7	24.3	22.3	20.5	18.9	160
165					21.3	20.1	18.9	18.3	22.6	21.1	19.6	18.5	23.6	21.8	20.1	18.6	165
170					20.6	19.6	18.5	18.2	21.8	20.5	19.1	18.3	22.9	21.3	19.6	18.4	170
175					19.9	19.1	18.1	18.1	21.2	20	18.8	18.1	22.2	20.7	19.2	18.3	175
180					19.2	18.5	17.8	18.1	20.7	19.5	18.5	18.1	21.5	20.2	18.8	18.1	180
185					18.7	18.2	17.6	18.1	20.1	19.1	18.1	18.1	20.7	19.7	18.5	18	185
190					18.3	17.9	17.4		19.5	18.7	17.8	18	19.9	19.1	18.2	17.9	190
195					17.8	17.6	17.4		18.9	18.2	17.6	18	19.1	18.5	17.9	17.9	195
200					17.5	17.4	17.4		18.4	17.9	17.5	18	18.3	18	17.7	17.9	200
205					12.5				18.1	17.7	17.3		17.5	17.4	17.4	17.9	205
210									17.7	17.5	17.2		16.7	16.9	17	17.4	210
215									17.3	17.3	17.2		15.9	16.3	16.3	17	215
220									13.2	16.3			15.1	15.6	15.6		220
225													14.4	14.8	14.9		225
230													13.7	14	14.2		230
235													11	13.2	13.2		235

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 80

53-279 ft

80 ft

360°

23 ft
19.7 ft
16.4 ft

295,400 lbs

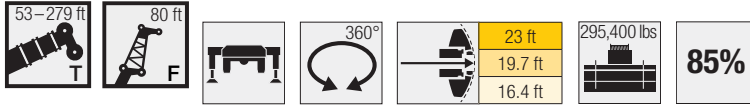
85%

	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
45	54																45
50	52.1				46.9												50
55	50.1				45.5				35.2								55
60	48.2	41.4			44.1				38.4				30.8				60
65	46.4	40.1			42.8				37.2				30.1				65
70	44.9	38.8			41.3	36.4			36.1				29.2				70
75	43.4	37.5	33		39.8	35.4			34.9	32.7			28.3				75
80	41.9	36.3	32.1		38.1	34.4	30.7		33.6	32			27.5	26.5			80
85	40.4	35.3	31.2		36.5	33.5	30		32.2	31.2	18.1		26.6	25.8			85
90	38.8	34.2	30.3		34.8	32.6	29.2		30.7	30.5	27.6		25.6	25			90
95	37.1	33.1	29.4	24.2	33.2	31.8	28.5		29.2	29.6	27.2		24.7	24.3	24		95
100	35.9	32.1	28.5	23.6	31.6	31	27.7	23.1	27.8	28.4	26.9		23.7	23.6	23.3		100
105	34.7	31.2	27.6	23.1	30.2	30.2	27	22.7	26.4	27.3	26.4		22.8	22.9	22.6		105
110	33.5	30.3	26.8	22.6	29.1	29.2	26.2	22.2	25	26.1	25.8	21.5	21.9	22.2	22		110
115	32.3	29.4	26	22.1	27.9	28	25.4	21.8	23.7	25	25.2	21.1	20.9	21.6	21.3	20.3	115
120	31.2	28.5	25.3	21.7	26.7	26.8	24.8	21.4	22.5	23.8	24.6	20.8	19.9	20.9	20.7	20	120
125	30	27.7	24.6	21.2	25.5	25.7	24.1	21	21.6	22.7	24	20.4	18.9	20.2	20.2	19.7	125
130	28.9	26.6	23.9	20.8	24.3	24.7	23.4	20.6	20.7	21.5	23.1	20.1	17.9	19.5	19.6	19.3	130
135	27.7	25.8	23.2	20.5	23.3	23.6	22.8	20.3	19.8	20.3	22	19.8	16.9	18.5	18.9	18.7	135
140	26.6	25	22.6	20.1	22.4	22.6	22.1	19.9	19	19.2	20.8	19.5	16.1	17.6	18.1	18.2	140
145	25.5	24.3	22.1	19.8	21.5	21.7	21.5	19.6	18.2	18.5	19.6	19.2	15.5	16.6	17.3	17.7	145
150	24.3	23.5	21.6	19.5	20.6	20.8	20.8	19.3	17.5	17.7	18.4	19	14.9	15.6	16.5	17.1	150
155	23.2	22.7	21.1	19.2	19.7	20	20	19	16.8	17	17.3	18.4	14.4	14.7	15.6	16.6	155
160	22.1	22	20.6	18.8	18.8	19.1	19.2	18.7	16.1	16.3	16.5	17.6	13.8	13.7	14.8	16	160
165	21.1	21.2	20.1	18.6	17.9	18.3	18.4	18.4	15.4	15.6	15.8	16.8	13.3	13.2	13.9	15.3	165
170	20.2	20.4	19.5	18.4	17.1	17.4	17.6	18	14.6	14.9	15.2	15.8	12.7	12.7	13.1	14.5	170
175	19.3	19.6	18.8	18.2	16.2	16.6	16.8	17.3	13.9	14.2	14.5	14.9	12.2	12.2	12.2	13.7	175
180	18.4	18.7	18.2	18	15.4	15.7	16	16.6	13.2	13.5	13.9	14.1	11.6	11.7	11.8	12.9	180
185	17.5	17.8	17.5	17.5	14.7	15	15.3	15.8	12.5	12.8	13.2	13.5	11.1	11.2	11.4	12	185
190	16.7	16.9	16.9	17	14	14.3	14.5	15.1	11.8	12.1	12.6	12.9	10.6	10.8	10.9	11.2	190
195	15.8	16.1	16.2	16.5	13.3	13.6	13.8	14.3	11.3	11.5	12	12.4	10	10.3	10.5	10.5	195
200	14.9	15.2	15.5	16	12.5	12.9	13	13.6	10.7	10.9	11.5	11.8	9.5	9.8	10.1	10.2	200
205	14.2	14.4	14.8	15.3	11.8	12.2	12.3	12.9	10.2	10.4	11	11.2	9	9.3	9.6	9.9	205
210	13.6	13.8	14	14.5	11.1	11.5	11.5	12.2	9.6	9.9	10.4	10.7	8.5	8.8	9.2	9.6	210
215	12.9	13.1	13.3	13.7	10.5	10.8	11	11.5	9.1	9.3	9.9	10.2	8	8.4	8.7	9.2	215
220	12.2	12.4	12.6	13	9.9	10.2	10.5	10.9	8.5	8.8	9.4	9.7	7.6	7.9	8.2	8.8	220
225	11.6	11.8	11.9	12.3	9.5	9.8	10	10.4	8	8.3	8.9	9.2	7.1	7.5	7.8	8.3	225
230	10.9	11.1	11.4	11.6	9	9.3	9.5	9.8	7.4	7.8	8.4	8.7	6.7	7	7.3	7.8	230
235	10.4	10.6	10.8		8.6	8.8	9	9.3	7	7.3	7.9	8.2	6.2	6.6	6.9	7.3	235
240	9.9	10.1	10.3		8.1	8.4	8.5	8.8	6.6	6.9	7.4	7.7	5.8	6.1	6.4	6.8	240
245	9.5	9.6	9.7		7.7	7.9	8.1	8.2	6.1	6.4	6.9	7.2	5.3	5.7	6	6.4	245
250	9	9.1	9.2		7.3	7.5	7.6		5.7	6	6.4	6.7	5	5.3	5.6	5.9	250
255	6	6.1			6.8	7	7.2		5.3	5.5	5.9	6.1	4.6	4.9	5.1	5.4	255
260					6.4	6.6	6.8		4.9	5.1	5.5	5.6	4.2	4.5	4.7	5	260
265					6	6.1	6.2		4.4	4.6	5.1		3.9	4.1	4.3	4.5	265
270					3.7	5.6			4.1	4.3	4.6		3.5	3.7	3.9	4	270
275									3.8	3.9	4.2		3.1	3.3	3.5	3.5	275
280									3.4	3.6	3.8		2.7	2.9	3.1		280
285									1.7	3.2	3.3		2.4	2.6	2.7		285
290													2.1	2.3	2.3		290
295													1.8	1.9	1.9		295

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 80

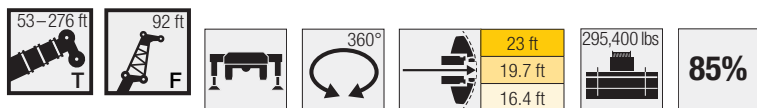


	243 ft + 7.5 ft*				259 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*			
	0°	10°	20°	40°	0°	10°	20°	40°	80 ft				0°	10°	20°	40°	0°	10°	20°	
65	23.8																		65	
70	23.1				16.7					18.3									70	
75	22.5				16.2					17.8				14.5				14.2	75	
80	21.9				15.7					17.4				14.2				13.9	80	
85	21.2	21			15.2					16.9				13.8				13.5	85	
90	20.6	20.4			14.7	14.4				16.4	15.9			13.4				13.1	90	
95	20	19.8			14.3	14				16	15.5			13	12.9			12.7	95	
100	19.5	19.3	19.2		13.8	13.6				15.5	15.1			12.6	12.5			12.3	100	
105	18.9	18.7	18.7		13.3	13.2	12.9			15.1	14.7	14.3		12.2	12.2			11.9	105	
110	18.3	18.1	18.1		12.9	12.8	12.5			14.6	14.3	13.9		11.8	11.8	11.8		11.4	110	
115	17.8	17.6	17.6		12.4	12.4	12.1			14.2	13.9	13.5		11.4	11.4	11.5		11	115	
120	17.2	17.1	17.1	16.5	11.9	12	11.7			13.8	13.6	13.2		11	11.1	11.1		10.5	120	
125	16.6	16.6	16.6	16.2	11.5	11.6	11.4	10.8		13.3	13.2	12.8	11.4	10.6	10.7	10.8		10	125	
130	15.9	16.1	16.1	15.9	11	11.2	11.1	10.5		12.9	12.8	12.4	11.2	10.2	10.3	10.4	10.1	9.5	130	
135	15.2	15.5	15.6	15.5	10.6	10.7	10.7	10.2		12.4	12.4	12.1	11	9.8	10	10.1	9.9	9	135	
140	14.5	15	15.1	15.1	10.1	10.3	10.4	10		11.9	12	11.7	10.8	9.4	9.6	9.8	9.7	8.5	140	
145	13.7	14.3	14.6	14.7	9.7	9.9	10.1	9.7		11.4	11.6	11.3	10.6	9	9.2	9.4	9.4	8	145	
150	13	13.6	14.1	14.2	9.2	9.5	9.8	9.5		10.9	11.2	11	10.4	8.6	8.8	9.1	9.2	7.5	150	
155	12.2	13	13.5	13.8	8.8	9.1	9.4	9.2		10.4	10.8	10.6	10.2	8.2	8.5	8.7	9	7	155	
160	11.5	12.3	13	13.3	8.4	8.7	9	9		9.9	10.3	10.3	10	7.8	8.1	8.4	8.8	6.5	160	
165	10.7	11.6	12.4	12.8	7.9	8.3	8.6	8.8		9.4	9.9	10.1	9.8	7.4	7.7	8	8.5	6	165	
170	10.2	11	11.9	12.3	7.5	7.9	8.2	8.5		8.9	9.4	9.8	9.6	6.9	7.4	7.7	8.3	5.5	170	
175	9.8	10.3	11.3	11.8	7.1	7.5	7.8	8.3		8.3	9	9.5	9.3		7	7.3	7.9		175	
180	9.4	9.6	10.6	11.3	6.6	7.1	7.5	8		7.8	8.5	9.2	9.1		6.6	7	7.6	5.3	180	
185	9	9.2	9.9	10.7	6.2	6.7	7.1	7.7		7.2	8.1	8.9	8.8		6.2	6.6	7.3		185	
190	8.6	8.8	9.2	10.2	5.8	6.3	6.6	7.3		6.6	7.5	8.4	8.4		5.9	6.2	6.9		190	
195	8.2	8.4	8.5	9.6	5.3	5.8	6.2	6.9		6	6.9	7.8	8.1		5.4	5.8	6.6		195	
200	7.8	8.1	8.2	9	4.9	5.4	5.8	6.5		5.5	6.3	7.2	7.7		5	5.4	6.2		200	
205	7.5	7.7	7.9	8.3	4.5	5	5.4	6.1		4.9	5.7	6.6	7.3		4.5	4.9	5.8		205	
210	7.1	7.4	7.6	7.8	4	4.6	5	5.7		4.3	5.1	5.9	7		4	4.5	5.5		210	
215	6.7	7	7.3	7.6		4.1	4.6	5.3			4.5	5.3	6.4		3.4	4	5.1		215	
220	6.3	6.6	6.9	7.3		3.7	4.1	4.8					5.8		2.8	3.4	4.7		220	
225	5.9	6.3	6.6	7				3.7	4.4				5.1		2.1		4.2		225	
230	5.5	5.9	6.2	6.7				3.3	4								3.6		230	
235	5.2	5.5	5.8	6.3				2.8	3.5								3		235	
240	4.8	5.1	5.4	5.9				2.3	3.1										240	
245	4.4	4.7	5	5.4				1.8	2.5										245	
250	4	4.4	4.6	5					1.9										250	
255	3.7	4	4.2	4.6															255	
260	3.3	3.6	3.8	4.1															260	
265	2.9	3.3	3.5	3.7															265	
270	2.6	2.9	3.1	3.3															270	
275	2.2	2.6	2.7	2.9															275	
280	1.8	2.1	2.3	2.5															280	
285		1.7	1.8	1.9															285	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 92

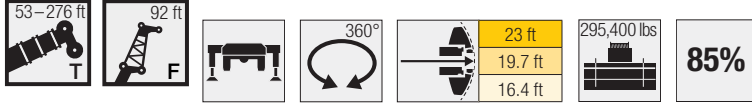


	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
22	84.4																22
24	81.1																24
26	77.7																26
28	74.2																28
30	70.8																30
32	67.8																32
34	65.3				64.8												34
36	63				63.2												36
38	60.7				61.7				58.6								38
40	58.4	52.2			60.2				57.4								40
45	52.6	48			56.3				54.4				52				45
50	48.7	44.3			53.1	44.8			51.4				49.7				50
55	44.9	41	36.2		50.4	42.7			48.8	41.5			47.4				55
60	41.1	37.6	33.7		47.6	40.6			46.6	39.8			45.3	38.3			60
65	37.9	35.1	31.4		44.9	38.7	33.3		44.4	38			43.6	36.8			65
70	35.4	32.7	29.4		42.5	37	32		42.3	36.5	31.5		41.8	35.4			70
75	32.9	30.2	27.5		40.6	35.4	30.6		40.1	35.1	30.4		40.1	34.1	29.7		75
80	30.5	28.3	25.9	22.1	38.8	33.8	29.3		38.6	33.7	29.2		38.4	32.9	28.7		80
85	28	26.7	24.3	21.1	37	32.4	28		37	32.4	28.1		36.8	31.8	27.8		85
90	26.1	25.1	22.9	20.3	35.1	31	26.7	21.5	35.5	31.1	27		35.6	30.7	26.9		90
95	24.6	23.5	21.7	19.4	33.5	29.7	25.7	20.9	34	30	25.9	20.9	34.4	29.6	26		95
100	23.1	22	20.6	18.6	32.1	28.3	24.7	20.3	32.5	28.8	24.9	20.4	33.1	28.6	25	20.3	100
105	21.6	20.8	19.5	17.8	30.8	27	23.7	19.8	31.1	27.7	24.1	19.8	31.9	27.7	24.1	19.8	105
110	20.2	19.8	18.5	17.1	29.4	26	22.8	19.2	30	26.6	23.2	19.3	30.7	26.8	23.3	19.3	110
115	19.2	18.7	17.6	16.5	28.1	25.1	22	18.7	28.9	25.6	22.4	18.8	29.6	25.8	22.6	18.8	115
120	18.2	17.6	16.8	15.9	26.8	24.1	21.3	18.1	27.8	24.7	21.6	18.3	28.5	24.9	21.9	18.3	120
125	17.2	16.8	16	15.4	25.5	23.1	20.5	17.7	26.7	23.9	21	17.8	27.6	24	21.2	17.9	125
130	16.2	16.1	15.4	15	24.3	22.2	19.8	17.2	25.6	23	20.3	17.4	26.7	23.3	20.5	17.5	130
135	15.5	15.3	14.8	14.8	23.4	21.2	19.1	16.8	24.5	22.2	19.7	17.1	25.8	22.6	20	17.1	135
140	14.8	14.7	14.3		22.5	20.4	18.4	16.4	23.5	21.4	19.1	16.7	24.9	21.9	19.4	16.8	140
145	14.2	14.2	14.2		21.6	19.8	17.9	16.1	22.7	20.6	18.5	16.3	23.9	21.2	18.9	16.5	145
150					20.8	19.1	17.4	15.7	21.9	19.9	17.9	16	23	20.5	18.5	16.1	150
155					19.9	18.5	16.9	15.4	21.1	19.3	17.4	15.7	22.2	19.9	18	15.8	155
160					19	17.8	16.4	15.2	20.4	18.7	17	15.4	21.5	19.2	17.5	15.6	160
165					18.3	17.2	15.9	14.9	19.7	18.2	16.5	15.2	20.8	18.5	16.9	15.3	165
170					17.7	16.6	15.5	14.7	18.9	17.6	16.1	15	20.2	18.1	16.5	15.1	170
175					17.2	16.2	15.2	14.6	18.2	17	15.7	14.8	19.6	17.6	16.1	14.9	175
180					16.6	15.7	14.8	14.5	17.6	16.5	15.3	14.6	18.9	17.1	15.7	14.7	180
185					16	15.3	14.5	14.4	17.1	16.1	15	14.4	18.3	16.7	15.4	14.6	185
190					15.4	14.8	14.2	14.4	16.6	15.7	14.7	14.4	17.7	16.2	15	14.4	190
195					15	14.5	14	14.4	16.1	15.3	14.5	14.4	17.1	15.8	14.8	14.3	195
200					14.6	14.3	13.9		15.6	14.9	14.2	14.3	16.5	15.4	14.5	14.2	200
205					14.2	14	13.8		15.1	14.6	14	14.3	16	15.1	14.3	14.2	205
210					13.9	13.8	13.8		14.7	14.3	13.9	14.3	15.4	14.8	14.1	14.2	210
215					13.8	13.8			14.4	14	13.7		14.9	14.5	13.8	14.2	215
220									14.1	13.9	13.6		14.3	14.2	13.6	14.2	220
225									13.8	13.7	13.6		13.8	13.9	13.3	14.2	225
230									12.9	13.7			13.1	13.4	13		230
235													12.5	12.7	12.6		235
240													11.8	12	12.2		240
245													10.6	11.4	11.5		245
250													6.5	5.2			250

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 92

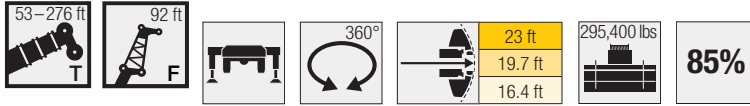


	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	92 ft				0°	10°	20°	40°	
50	45.9																50
55	44.2				39.9												55
60	42.5				38.7				34.3				24.1				60
65	40.9	35			37.5				33.5				26.6				65
70	39.4	33.9			36.3	31.5			32.7				25.9				70
75	38.1	32.8			35.1	30.8			31.8				25.2				75
80	36.8	31.7	27.8		34	30			31	27.7			24.5				80
85	35.5	30.7	27.4		32.9	29.1			29.9	27			23.7	23.2			85
90	34.2	29.8	27		31.8	28.3	26.1		28.6	26.4			23	22.6			90
95	32.9	28.9	26.4		30.6	27.6	25.4		27.3	25.7	23.9		22.3	21.9			95
100	31.7	28	25.6		29.5	26.9	24.8		26	25	23.4		21.6	21.3	20.9		100
105	30.7	27.1	24.8	19.5	28.2	26.2	24.1		24.7	24.3	22.8		20.8	20.6	20.4		105
110	29.7	26.3	24	19.1	26.9	25.5	23.4	18.7	23.5	23.5	22.2		20.1	20	19.8		110
115	28.8	25.6	23.3	18.6	25.8	24.8	22.8	18.3	22.2	22.8	21.6	10.4	19.4	19.5	19.3		115
120	27.9	24.8	22.6	18.2	24.8	23.8	22.1	17.9	21.1	22	21.1	17.4	18.7	18.9	18.7		120
125	27	24	22	17.8	23.7	22.9	21.5	17.5	20	21.2	20.6	17.1	17.8	18.3	18.2	16.4	125
130	26.1	23.3	21.4	17.5	22.7	22.1	21	17.2	18.9	20.3	20.1	16.8	17	17.8	17.6	16.2	130
135	25.2	22.5	20.8	17.1	21.6	21.4	20.4	16.9	18.1	19.3	19.5	16.5	16.1	17.2	17.1	15.9	135
140	24.3	21.6	20.2	16.7	20.7	20.7	19.9	16.6	17.4	18.2	18.8	16.2	15.1	16.4	16.6	15.7	140
145	23.3	21	19.6	16.4	19.8	20	19.4	16.3	16.6	17.1	18	15.9	14.2	15.5	16	15.4	145
150	22.5	20.5	19.1	16.1	19	19.2	18.8	16	15.9	16.3	17.2	15.7	13.4	14.7	15.3	15.2	150
155	21.6	19.9	18.6	15.9	18.3	18.5	18.2	15.8	15.3	15.7	16.4	15.4	12.8	13.8	14.6	14.9	155
160	20.7	19.4	18.1	15.6	17.5	17.7	17.4	15.5	14.6	15.2	15.7	15.2	12.3	13	13.9	14.4	160
165	19.7	18.8	17.7	15.4	16.7	17	16.8	15.3	14	14.6	14.8	14.8	11.8	12.1	13.2	13.9	165
170	18.9	18.3	17.3	15.1	15.9	16.2	16.2	15.1	13.4	14	13.9	14.3	11.3	11.3	12.4	13.4	170
175	18.1	17.7	16.8	15	15.1	15.4	15.6	14.9	12.7	13.4	13.3	13.8	10.9	10.8	11.7	12.8	175
180	17.3	17.1	16.3	14.8	14.3	14.7	15	14.5	12.1	12.8	12.8	13.2	10.4	10.4	10.9	12.2	180
185	16.5	16.4	15.8	14.6	13.6	13.9	14.3	14.1	11.5	12.2	12.3	12.6	9.9	10	10.2	11.5	185
190	15.7	15.7	15.4	14.4	12.9	13.2	13.7	13.6	10.8	11.6	11.7	11.9	9.4	9.6	9.7	10.8	190
195	14.9	15	14.9	14.2	12.3	12.6	13.1	13.2	10.2	11	11.2	11.3	8.9	9.1	9.3	10.1	195
200	14.1	14.2	14.4	14	11.8	12	12.5	12.7	9.6	10.4	10.7	10.9	8.5	8.7	9	9.4	200
205	13.3	13.5	13.9	13.8	11.1	11.4	11.9	12.2	9.1	9.8	10.2	10.5	8	8.3	8.6	8.9	205
210	12.6	12.8	13.3	13.6	10.5	10.9	11.3	11.7	8.6	9.3	9.7	10.1	7.5	7.9	8.3	8.6	210
215	12	12.2	12.7	13.1	10	10.3	10.7	11.1	8.1	8.8	9.2	9.7	7.1	7.5	7.9	8.2	215
220	11.5	11.7	12.1	12.4	9.4	9.7	10.1	10.5	7.6	8.3	8.7	9.2	6.6	7.1	7.4	7.9	220
225	10.9	11.1	11.5	11.7	8.8	9.2	9.6	10	7.1	7.8	8.2	8.7	6.2	6.6	7	7.6	225
230	10.4	10.6	10.9	11	8.3	8.7	9.1	9.4	6.6	7.4	7.8	8.3	5.8	6.2	6.6	7.2	230
235	9.9	10	10.3	10.5	7.8	8.2	8.6	8.9	6.1	6.9	7.3	7.8	5.4	5.8	6.1	6.7	235
240	9.3	9.5	9.8	9.9	7.4	7.7	8.2	8.4	5.6	6.4	6.8	7.3	5	5.4	5.7	6.3	240
245	8.9	9	9.3		6.9	7.3	7.7	7.9	5.2	5.9	6.3	6.8	4.6	5	5.3	5.8	245
250	8.5	8.6	8.9		6.5	6.8	7.2	7.4	4.8	5.5	5.9	6.2	4.2	4.6	4.9	5.3	250
255	8	8.2	8.4		6	6.3	6.8	6.9	4.4	5.1	5.4	5.7	3.8	4.1	4.5	4.9	255
260	7.6	7.7	7.9		5.6	5.9	6.3		4.1	4.7	4.9	5.2	3.4	3.7	4.1	4.4	260
265	4.5	6.3			5.2	5.4	5.8		3.7	4.3	4.5	4.7	3	3.4	3.7	4	265
270					4.8	5	5.4		3.3	3.8	4	4.2	2.7	3	3.3	3.5	270
275					4.4	4.6	4.8		2.9	3.4	3.6		2.3	2.7	2.9	3.1	275
280					2.2	4.2	4.3		2.6	3.1	3.2		1.8	2.2	2.4	2.6	280
285									2.3	2.7	2.8			1.7	1.9	2	285
290									2	2.4	2.4						290
295										2	1.9						295

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 92

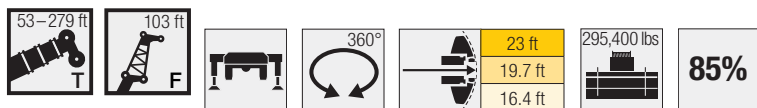


	243 ft + 7.5 ft*				259 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*		
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	
65	18														65
70	20.7														70
75	20.1				15.6										75
80	19.6				15.3				12.3				12.1		80
85	19				14.9				12				11.7		85
90	18.4	18.3			14.5				11.6				11.4		90
95	17.9	17.8			14.1	13.4			11.3				11		95
100	17.4	17.2			13.7	13.1			10.9	10.9			10.6	10.6	100
105	16.9	16.7	12.8		13.3	12.8			10.6	10.5			10.3	10.3	105
110	16.4	16.2	16.3		12.9	12.4	11.9		10.2	10.2			9.9	10	110
115	15.9	15.7	15.8		12.5	12.1	11.6		9.9	9.9			9.5	9.7	115
120	15.4	15.2	15.3		12.1	11.7	11.3		9.5	9.6	9.5		9.1	9.4	120
125	14.9	14.8	14.8		11.7	11.4	11.1		9.1	9.2	9.2		8.6	9.1	125
130	14.3	14.3	14.4	13.1	11.3	11.1	10.8		8.8	8.9	9		8.2	8.7	130
135	13.7	13.9	13.9	12.9	10.8	10.8	10.5	9.2	8.4	8.6	8.7		7.8	8.3	135
140	13.1	13.4	13.5	12.7	10.4	10.4	10.2	9.1	8	8.2	8.4		7.3	7.9	140
145	12.4	12.9	13.1	12.4	10	10.1	9.9	8.9	7.7	7.9	8.1	8.2	6.9	7.5	145
150	11.8	12.4	12.6	12.2	9.5	9.8	9.6	8.7	7.3	7.6	7.8	8	6.4	7.2	150
155	11.1	11.8	12.2	11.9	9.1	9.4	9.4	8.6	6.9	7.2	7.5	7.8	6	6.8	155
160	10.4	11.2	11.7	11.7	8.6	9	9.1	8.4	6.6	6.9	7.2	7.5	5.5	6.3	160
165	9.8	10.6	11.2	11.4	8.2	8.7	8.8	8.3	6.2	6.6	6.9	7.3	5	5.9	165
170	9.1	10	10.8	11	7.7	8.3	8.5	8.1	5.8	6.2	6.6	7.1	4.5	5.5	170
175	8.5	9.4	10.3	10.7	7.2	7.9	8.2	8	5.5	5.9	6.2	6.8	4	5	175
180	8.1	8.9	9.8	10.3	6.8	7.5	8	7.8		5.6	5.9	6.6		4.5	180
185	7.8	8.3	9.3	9.9	6.3	7.1	7.7	7.6		5.2	5.6	6.3		4	185
190	7.4	7.6	8.7	9.4	5.8	6.7	7.4	7.5			5.2	6		3.5	190
195	7.1	7.2	8	8.9	5.2	6.2	7.1	7.2			4.9	5.7			195
200	6.7	6.9	7.4	8.4	4.7	5.7	6.6	6.8			4.6	5.3			200
205	6.4	6.6	6.8	7.9	4.2	5.2	6.1	6.5			4.2	5			205
210	6	6.3	6.5	7.4	3.6	4.6	5.5	6.1			3.8	4.7			210
215	5.6	5.9	6.2	6.8	2.9	4	4.9	5.8			3.3	4.3			215
220	5.3	5.6	5.9	6.3	2.2	3.5	4.3	5.4			2.7				220
225	4.9	5.3	5.6	6		2.8		4.9			2.2				225
230	4.6	5	5.2	5.7		2.1		4.4			1.6				230
235	4.3	4.6	4.9	5.4				3.8							235
240	3.9	4.3	4.5	5.1											240
245	3.6	3.9	4.2	4.8											245
250	3.2	3.6	3.8	4.4											250
255	2.9	3.2	3.5	4											255
260	2.4	2.9	3.1	3.6											260
265			2.8	3.2											265
270			2.3	2.8											270
275			1.8	2.3											275
280				1.7											280

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 103

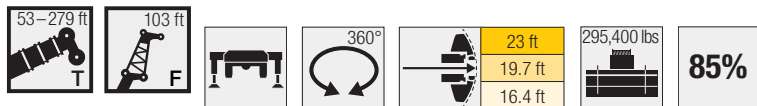


	53 ft + 7.5 ft*				122 ft + 7.5 ft*				103 ft				139 ft + 7.5 ft*				157 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
24	73.1																				24
26	70.6																				26
28	67.8																				28
30	65.1																				30
32	62.4																				32
34	59.8																				34
36	57.6				55.9																36
38	55.8				54.6				52.7												38
40	53.9				53.4				51.7												40
45	49.3	44			50.2				49.1				45.9								45
50	45	40.8			47.2				46.6				44								50
55	41.8	37.8			44.8	38			44.2				42.1								55
60	38.7	35.1	31.1		42.5	36.3			42.2	35.3			40.1								60
65	35.6	32.3	29		40.2	34.6			40.3	33.9			38.6	32.7							65
70	33	30.2	27.1		38	33			38.5	32.4			37.1	31.5							70
75	30.9	28.2	25.4		36.1	31.7	27.5		36.6	31.1	27.8		35.7	30.3							75
80	28.8	26.2	23.8		34.6	30.3	27		34.9	30	26.9		34.2	29.1	26.3						80
85	26.8	24.5	22.4		33.1	28.9	26.1		33.6	28.8	26		32.8	28.2	25.6						85
90	24.7	23.1	21.1	18	31.6	27.7	25		32.3	27.7	25.1		31.5	27.3	24.7						90
95	22.9	21.8	19.8	17.2	30	26.6	23.9		31	26.6	24.1		30.4	26.3	23.9						95
100	21.6	20.4	18.7	16.5	28.7	25.4	22.9	17.5	29.7	25.6	23.1		29.4	25.4	23.1						100
105	20.4	19.1	17.8	15.8	27.4	24.3	22	17	28.5	24.7	22.2	17.1	28.4	24.5	22.2						105
110	19.1	18	16.9	15.2	26.3	23.1	21.2	16.6	27.3	23.7	21.4	16.7	27.3	23.7	21.4	16.6					110
115	17.9	17.1	16	14.6	25.2	22.2	20.3	16.1	26.3	22.7	20.7	16.2	26.3	22.9	20.7	16.2					115
120	16.8	16.2	15.1	14	24.1	21.4	19.5	15.7	25.4	21.8	19.9	15.8	25.3	22.1	20	15.8					120
125	15.9	15.3	14.5	13.5	23	20.6	18.8	15.2	24.4	21	19.2	15.4	24.5	21.3	19.4	15.4					125
130	15.1	14.5	13.8	13	21.9	19.8	18.2	14.8	23.5	20.3	18.5	15	23.7	20.5	18.8	15					130
135	14.2	13.8	13.1	12.6	20.8	19	17.6	14.5	22.5	19.6	18	14.6	22.9	19.8	18.2	14.7					135
140	13.4	13.2	12.6	12.2	19.9	18.1	16.9	14.1	21.6	18.9	17.4	14.3	22.1	19.2	17.6	14.3					140
145	12.8	12.5	12.1	12	19.2	17.4	16.3	13.7	20.6	18.2	16.9	13.9	21.3	18.6	17.1	14					145
150	12.2	12	11.7	12	18.5	16.8	15.7	13.4	19.8	17.5	16.3	13.6	20.5	18	16.6	13.7					150
155	11.6	11.6	11.6		17.7	16.2	15.3	13.1	19.1	16.9	15.8	13.3	19.8	17.4	16.2	13.4					155
160					17	15.7	14.8	12.8	18.5	16.3	15.3	13	19	16.8	15.7	13.1					160
165					16.3	15.1	14.4	12.5	17.8	15.8	14.9	12.8	18.2	16.2	15.2	12.9					165
170					15.6	14.5	13.9	12.3	17.2	15.3	14.5	12.5	17.7	15.7	14.8	12.7					170
175					15	14	13.5	12.1	16.5	14.8	14.1	12.3	17.1	15.2	14.4	12.4					175
180					14.5	13.6	13.1	11.9	15.9	14.4	13.7	12.1	16.6	14.8	14	12.3					180
185					14	13.2	12.8	11.8	15.2	13.9	13.3	12	16	14.4	13.7	12.1					185
190					13.5	12.8	12.5	11.7	14.8	13.4	13	11.8	15.5	14	13.4	11.9					190
195					13	12.5	12.2	11.6	14.3	13.1	12.7	11.7	15	13.6	13.1	11.8					195
200					12.5	12.1	11.9	11.6	13.9	12.8	12.4	11.6	14.5	13.2	12.7	11.7					200
205					12.2	11.8	11.7	11.6	13.5	12.4	12.2	11.6	14	12.8	12.5	11.6					205
210					11.8	11.5	11.6	11.6	13	12.1	11.9	11.6	13.7	12.5	12.2	11.5					210
215					11.5	11.3	11.4		12.6	11.8	11.7	11.6	13.3	12.3	12	11.5					215
220					11.2	11.1	11.4		12.2	11.5	11.6	11.6	13	12	11.8	11.5					220
225					11.1	11.1			11.9	11.4	11.4	11.6	12.6	11.8	11.6	11.5					225
230									11.7	11.2	11.3		12.3	11.5	11.4	11.5					230
235									11.4	11.1	11.3		11.9	11.3	11.3	11.5					235
240									11.2	11	11.3		11.4	11	11.2						240
245									6.2				10.9	10.7	11.1						245
250													10.4	10.4	10.9						250
255													9.9	10.1	10.3						255
260													6.3	8							260

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 103

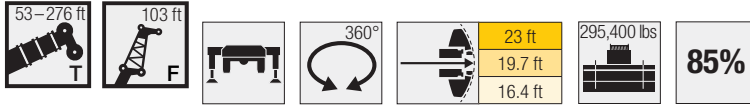


	174 ft + 7.5 ft*				191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
50	40.5																50
55	39.1				35.3												55
60	37.6				34.3				30.1								60
65	36.2				33.2				29.6				24.3				65
70	34.8	29.9			32.1				28.8				23.6				70
75	33.7	29			31.1	27.7			28.1				23				75
80	32.6	28			30.2	27.1			27.3				22.3				80
85	31.5	27.1			29.3	26.4			26.6	24.4			21.7				85
90	30.4	26.2	24		28.5	25.7			25.7	23.8			21.1	20.6			90
95	29.2	25.5	23.3		27.7	25	22.3		24.7	23.3			20.4	20.1			95
100	28.2	24.7	22.6		26.8	24.4	21.7		23.8	22.7	20.5		19.8	19.5			100
105	27.4	24	21.9		25.9	23.8	21.1		22.9	22.1	20		19.2	18.9	11.4		105
110	26.6	23.2	21.2		24.9	23.2	20.5		22	21.6	19.4		18.6	18.3	18.1		110
115	25.8	22.5	20.5	16	23.9	22.6	19.9		21	21.1	18.9		18	17.8	17.6		115
120	25	21.8	19.8	15.6	22.9	22	19.3	15.3	20.1	20.6	18.4		17.4	17.3	17.1		120
125	24.2	21.2	19.2	15.3	22	21.3	18.8	15	19.1	20.1	17.9	14.4	16.8	16.8	16.6		125
130	23.3	20.5	18.7	14.9	21.2	20.6	18.2	14.7	18.1	19.5	17.5	14.2	16.1	16.3	16.1		130
135	22.5	19.8	18.2	14.6	20.3	19.9	17.7	14.4	17.1	18.9	17	13.9	15.3	15.8	15.7	13.4	135
140	21.8	19.2	17.6	14.3	19.5	19.2	17.3	14	16.1	18	16.6	13.7	14.5	15.3	15.2	13.2	140
145	21.1	18.5	17.1	14	18.7	18.6	16.8	13.8	15.5	17.1	16.1	13.4	13.7	14.7	14.7	13	145
150	20.4	17.8	16.6	13.6	17.9	18.1	16.4	13.5	14.9	16.1	15.6	13.2	12.9	14	14.2	12.8	150
155	19.8	17.3	16.2	13.4	17.2	17.5	15.9	13.3	14.3	15.2	15.1	12.9	12.1	13.2	13.7	12.6	155
160	19.1	16.9	15.8	13.1	16.5	16.9	15.5	13	13.7	14.3	14.6	12.7	11.3	12.5	13.2	12.4	160
165	18.4	16.4	15.4	12.9	15.8	16.2	14.9	12.8	13.1	13.4	14.1	12.6	10.8	11.7	12.6	12.2	165
170	17.8	15.9	15	12.7	15.1	15.5	14.4	12.6	12.5	12.9	13.6	12.4	10.3	11	12	11.9	170
175	17.1	15.4	14.6	12.5	14.4	14.9	14	12.4	11.9	12.4	12.9	12.1	9.9	10.3	11.3	11.6	175
180	16.4	15	14.2	12.3	13.7	14.2	13.6	12.2	11.4	11.9	12.1	11.8	9.5	9.7	10.7	11.3	180
185	15.7	14.5	13.8	12.1	13	13.5	13.2	12.1	10.8	11.4	11.4	11.5	9.1	9.3	10.1	10.9	185
190	15	14	13.4	12	12.3	12.9	12.7	11.8	10.2	10.9	10.9	11.2	8.7	8.9	9.4	10.5	190
195	14.3	13.5	13.1	11.8	11.6	12.2	12.3	11.6	9.7	10.4	10.5	10.9	8.2	8.5	8.7	9.9	195
200	13.6	13	12.9	11.7	11.1	11.6	11.9	11.4	9.1	9.9	10.1	10.4	7.8	8.1	8.3	9.3	200
205	12.9	12.5	12.6	11.5	10.6	11	11.4	11.2	8.5	9.4	9.7	9.9	7.4	7.7	8	8.7	205
210	12.2	12	12.3	11.5	10	10.5	10.9	11	8	8.8	9.3	9.5	7	7.3	7.6	8.2	210
215	11.4	11.5	12	11.4	9.5	10.1	10.4	10.7	7.6	8.4	8.8	9.2	6.5	6.9	7.3	7.7	215
220	10.8	11.1	11.7	11.3	9	9.6	9.9	10.3	7.1	7.9	8.3	8.8	6.1	6.5	6.9	7.4	220
225	10.4	10.6	11.1	11.1	8.4	9.1	9.5	9.8	6.7	7.5	7.9	8.5	5.7	6.2	6.6	7	225
230	9.9	10.1	10.6	10.7	7.9	8.6	9	9.4	6.2	7	7.4	8.1	5.3	5.8	6.2	6.7	230
235	9.5	9.7	10.1	10.3	7.4	8.1	8.5	8.9	5.8	6.6	6.9	7.6	5	5.4	5.8	6.4	235
240	9.1	9.3	9.6	9.9	6.9	7.6	8	8.4	5.3	6.1	6.5	7.1	4.6	5	5.4	6	240
245	8.6	8.8	9.1	9.4	6.5	7.2	7.5	7.9	4.9	5.7	6	6.6	4.2	4.6	5	5.6	245
250	8.2	8.4	8.7	8.9	6.1	6.7	7	7.4	4.4	5.2	5.6	6.1	3.9	4.3	4.6	5.2	250
255	7.8	7.9	8.3		5.7	6.3	6.6	6.9	4.1	4.8	5.2	5.6	3.5	3.9	4.2	4.7	255
260	7.4	7.5	7.9		5.3	5.9	6.1	6.4	3.7	4.4	4.7	5.2	3.1	3.5	3.8	4.3	260
265	6.9	7.1	7.5		4.9	5.4	5.6	5.8	3.4	4	4.3	4.7	2.7	3.1	3.4	3.9	265
270	6.5	6.7	6.9		4.5	5	5.2		3	3.7	3.9	4.2	2.3	2.8	3.1	3.5	270
275	4.1	6.3			4.1	4.6	4.8		2.6	3.3	3.5	3.7	1.8	2.4	2.7	3	275
280					3.8	4.2	4.4		2.3	2.9	3.1	3.2		1.9	2.2	2.6	280
285					3.4	3.8	3.9		1.8	2.5	2.7				1.7	2	285
290					2.9	3.4	3.3			2.1	2.3						290
295										1.6	1.8						295

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 103



	243 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*		
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	
70	18.8														70
75	18.3				13.8										75
80	17.8				13.5				10.9						80
85	17.3				13.2				10.6				10.2		85
90	16.8				12.8				10.3				9.9		90
95	16.3	16.1			12.5				10				9.7		95
100	15.8	15.7			12.1	11.6			9.7				9.4		100
105	15.3	15.2			11.8	11.3			9.4	9.2			9.1	9	105
110	14.9	14.8	10.8		11.4	11			9	9			8.8	8.8	110
115	14.4	14.3	14.2		11.1	10.7			8.7	8.7			8.5	8.5	115
120	14	13.9	13.8		10.7	10.4	9.9		8.4	8.4			8.1	8.3	120
125	13.5	13.5	13.4		10.4	10.1	9.7		8.1	8.2	8		7.7	8	125
130	13.1	13	13		10.1	9.8	9.4		7.8	7.9	7.8		7.4	7.7	130
135	12.6	12.6	12.6		9.7	9.5	9.2		7.4	7.6	7.6		7	7.4	135
140	12.1	12.2	12.3	10.7	9.4	9.2	8.9		7.1	7.3	7.3		6.6	7.1	140
145	11.5	11.8	11.9	10.6	9	8.9	8.7	7.6	6.8	7	7.1		6.2	6.7	145
150	10.9	11.4	11.5	10.4	8.6	8.7	8.4	7.5	6.5	6.7	6.9		5.8	6.4	150
155	10.3	10.9	11.1	10.2	8.2	8.4	8.2	7.3	6.1	6.4	6.6	6.7	5.4	6	155
160	9.8	10.4	10.7	10.1	7.8	8.1	8	7.2	5.8	6.1	6.3	6.5	4.9	5.7	160
165	9.2	9.9	10.3	10	7.4	7.8	7.7	7.1	5.5	5.8	6.1	6.3	4.5	5.3	165
170	8.6	9.4	10	9.8	7	7.5	7.5	6.9	5.1	5.5	5.8	6.1	4	5	170
175	8	8.9	9.6	9.6		7.1	7.2	6.8	4.8	5.2	5.5	5.9	3.5	4.6	175
180	7.4	8.4	9.2	9.4		6.8	7	6.7	4.5	4.9	5.3	5.7	2.8	4.1	180
185	6.9	7.9	8.8	9.2		6.4	6.7	6.6		4.6	5	5.6		3.6	185
190	6.6	7.4	8.3	9		6.1	6.5	6.4		4.3	4.7	5.3		3.1	190
195	6.3	6.8	7.9	8.7		5.7	6.3	6.3		4	4.4	5.1		2.4	195
200	6	6.2	7.3	8.3		5.4	6	6.2				4.8			200
205	5.7	5.9	6.7	7.8		4.9	5.7	6				4.5			205
210	5.3	5.6	6.1	7.3		4.5	5.3	5.7				4.3			210
215	5	5.3	5.5	6.8		4	4.8	5.4				4			215
220	4.7	5	5.2	6.3		3.5	4.3	5.1				3.7			220
225	4.4	4.7	4.9	5.7		2.8	3.8	4.7				3.3			225
230	4.1	4.4	4.7	5.1		2.1	3.2	4.4							230
235	3.7	4.1	4.4	4.9				4							235
240	3.4	3.8	4.1	4.6				3.5							240
245	3.1	3.5	3.8	4.3				2.8							245
250	2.7	3.2	3.5	4											250
255	2.3	2.9	3.1	3.7											255
260	1.9	2.5	2.8	3.4											260
265		2	2.4	3											265
270		1.6		2.6											270
275				2.1											275
280				1.6											280

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 115

Reach	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				174 ft + 7.5 ft*				Reach
	115 ft																				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
26	63.6																				26
28	61.6																				28
30	59.3																				30
32	57.1																				32
34	54.9																				34
36	52.7																				36
38	50.8				49.7																38
40	49.2				48.7			45.9													40
45	45.4				46			43.8				40.8									45
50	41.5	37.6			43.3			41.7				39.2					35.9				50
55	38.2	34.9			40.9			39.5				37.5					34.7				55
60	35.7	32.5			38.9	32.5		37.6				35.8					33.4				60
65	33.1	30.2	27.9		37	31			36	30.2			34.3				32.1				65
70	30.6	27.9	26.1		35	29.6			34.4	28.9			33	27.9			30.9				70
75	28.4	26	24.3		33.1	28.3			32.8	27.7			31.7	26.9			29.8	26.5			75
80	26.6	24.4	22.8		31.7	27.1	24.4		31.2	26.6			30.5	26			28.8	25.7			80
85	24.9	22.7	21.4		30.3	26	23.4		29.9	25.6	23.1		29.2	25.2			27.9	24.8			85
90	23.1	21.1	20		29	24.8	22.3		28.8	24.7	22.2		27.9	24.4	21.8		26.9	24			90
95	21.4	19.8	18.9		27.7	23.7	21.4		27.7	23.7	21.3		26.9	23.6	21.1		25.9	23.3	20.5		95
100	19.8	18.7	17.8	14.5	26.3	22.7	20.4		26.6	22.7	20.5		26	22.8	20.3		25	22.6	19.8		100
105	18.5	17.6	16.7	13.8	25.1	21.7	19.5		25.5	21.9	19.7		25.1	22.1	19.6		24.2	21.9	19.2		105
110	17.4	16.5	15.8	13.2	24.1	20.7	18.7	14.1	24.4	21	18.9		24.3	21.3	18.9		23.5	21.2	18.5		110
115	16.4	15.4	15	12.6	23.1	19.7	18	13.7	23.3	20.2	18.1	13.7	23.4	20.6	18.2		22.7	20.6	17.9		115
120	15.4	14.5	14.2	12.1	22.1	18.9	17.2	13.3	22.5	19.4	17.5	13.4	22.5	19.9	17.5	13.4	22	19.9	17.3		120
125	14.3	13.8	13.4	11.7	21.1	18.1	16.5	13	21.7	18.5	16.8	13	21.7	19.1	16.9	13	21.3	19.3	16.7	12.9	125
130	13.5	13	12.6	11.3	20.2	17.4	15.9	12.6	20.8	17.8	16.2	12.7	20.9	18.4	16.4	12.7	20.6	18.7	16.2	12.6	130
135	12.8	12.3	12.1	10.9	19.2	16.7	15.3	12.2	20	17.2	15.6	12.3	20.2	17.7	15.8	12.3	19.9	18.1	15.7	12.3	135
140	12.1	11.6	11.5	10.5	18.2	16	14.7	11.9	19.2	16.6	15.1	12	19.5	17	15.2	12	19.1	17.5	15.2	11.9	140
145	11.4	11.1	11	10.2	17.3	15.3	14.2	11.6	18.3	16	14.6	11.6	18.8	16.5	14.7	11.7	18.5	16.9	14.7	11.6	145
150	10.8	10.7	10.5	10	16.7	14.6	13.7	11.3	17.5	15.4	14.1	11.4	18.1	16	14.2	11.4	17.9	16.3	14.3	11.4	150
155	10.4	10.2	10.2	9.8	16	14.1	13.2	11	16.7	14.8	13.6	11.1	17.4	15.5	13.8	11.1	17.3	15.7	13.8	11.2	155
160	10	9.8	9.8	9.7	15.4	13.5	12.7	10.7	16.1	14.1	13.2	10.9	16.7	15	13.4	10.9	16.8	15.2	13.4	10.9	160
165	9.6	9.5	9.6		14.7	13.1	12.3	10.5	15.5	13.6	12.7	10.7	16	14.5	13	10.8	16.2	14.7	13	10.7	165
170	9.3	9.4			14.1	12.6	11.9	10.3	15	13.1	12.3	10.5	15.4	13.9	12.6	10.6	15.6	14.3	12.7	10.6	170
175					13.4	12.1	11.5	10.1	14.4	12.7	12	10.3	14.8	13.4	12.2	10.4	15.1	13.8	12.4	10.4	175
180					12.8	11.6	11.2	10	13.9	12.3	11.6	10.1	14.3	13	11.8	10.2	14.5	13.4	12	10.3	180
185					12.4	11.2	10.8	9.8	13.3	11.9	11.3	10	13.8	12.5	11.5	10.1	13.9	13	11.7	10.1	185
190					12	10.9	10.6	9.7	12.7	11.5	11	9.8	13.4	12.1	11.3	9.9	13.4	12.5	11.4	10	190
195					11.6	10.6	10.4	9.6	12.2	11.1	10.7	9.7	12.9	11.8	11	9.8	12.9	12.1	11	9.8	195
200					11.2	10.4	10.1	9.5	11.9	10.7	10.4	9.6	12.4	11.4	10.8	9.7	12.3	11.8	10.8	9.7	200
205					10.8	10.1	9.9	9.5	11.5	10.5	10.3	9.5	12	11	10.6	9.6	11.8	11.4	10.6	9.6	205
210					10.4	9.8	9.7	9.5	11.2	10.3	10.1	9.4	11.6	10.6	10.3	9.5	11.3	11	10.4	9.5	210
215					10.1	9.6	9.6	9.5	10.9	10.1	9.9	9.4	11.2	10.3	10.1	9.4	10.7	10.7	10.2	9.4	215
220					9.8	9.4	9.4	9.5	10.5	9.8	9.7	9.4	10.9	10.1	9.9	9.4	10.2	10.3	10.1	9.4	220
225					9.6	9.3	9.3		10.2	9.6	9.5	9.4	10.7	9.9	9.8	9.3	9.7	10	9.9	9.3	225
230					9.4	9.1	9.3		9.9	9.4	9.4	9.4	10.4	9.8	9.6	9.3	9.2	9.6	9.6	9.3	230
235					9.2	9.1	9.3		9.7	9.3	9.4	9.4	10.2	9.6	9.5	9.3	8.8	9.3	9.3	9.2	235
240									9.5	9.2	9.3		9.9	9.4	9.4	9.3	8.4	8.9	8.9	9	240
245									9.3	9.1	9.2		9.7	9.2	9.3	9.3	7.9	8.4	8.5	8.7	245
250									9.1	9	9.2		9.4	9.1	9.2	9.3	7.5	8	8.2	8.4	250
255									7.7	9			9.1	8.9	9.2		7.1	7.6	7.8	8.1	255
260													8.8	8.7	9.1		6.7	7.2	7.4	7.6	260
265													8.5	8.5	8.8		6.3	6.8	7	7.1	265
270													5.3	8.2			5.9	6.3	6.5		270
275																	5.4	5.8	6.1		275
280																	5	5.4	5.5		280
285																	3.6	5	4.9		285

* adapter - piece d'adapteur

Lifting capacities Forces de levage

TF 115

53-279 ft
T

115 ft
F

360°

23 ft
19.7 ft
16.4 ft

295,400 lbs

85%

	191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				243 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*				279 ft + 7.5 ft*		
	115 ft																										
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	0°			
60	30.3																							60			
65	29.3				26.6																			65			
70	28.4				25.9							21.2												70			
75	27.5				25.3							20.6				16.2								75			
80	26.6	24			24.6							20.1				15.8					11.7			80			
85	25.8	23.3			24							19.5				15.3					11.4		8.9	8.3	85		
90	25.1	22.7			23.3	20.9						18.9				14.9					11		8.6		8.1	90	
95	24.4	22			22.6	20.4						18.3	18			14.4					10.7		8.4		7.9	95	
100	23.6	21.4	19		21.8	19.9						17.8	17.5			14	13.8				10.4		8.1		7.7	100	
105	22.9	20.8	18.4		21.1	19.4						17.3	17			13.5	13.5				10.1	9.6	7.8		7.4	105	
110	22.1	20.3	17.9		20.4	18.9	16.9					16.8	16.4			13.1	13.1				9.7	9.3		7.5	7.4	110	
115	21.3	19.7	17.3		19.6	18.4	16.4					16.2	15.9	15.2		12.7	12.7				9.4	9.1		7.3	7.2	115	
120	20.5	19.2	16.8		18.9	18	15.9					15.7	15.5	14.8		12.3	12.3	11.6			9.1	8.8		7	7	120	
125	19.6	18.7	16.3		18.1	17.5	15.4					15.2	15	14.5		11.9	11.9	11.4			8.8	8.5	8	6.7	6.7	125	
130	19	18.1	15.8	12.3	17.2	17	15					14.7	14.5	14.1		11.5	11.5	11.1			8.5	8.2	7.8	6.4	6.5	130	
135	18.3	17.6	15.3	12	16.3	16.5	14.6	11.6				14	14.1	13.7		11.1	11.1	10.9			8.2	7.9	7.6	6.1	6.3	135	
140	17.6	17.1	14.8	11.7	15.4	16	14.2	11.4				13.3	13.6	13.3		10.6	10.7	10.6			7.9	7.7	7.4	5.8	6	140	
145	17	16.6	14.4	11.5	14.5	15.4	13.8	11.1				12.6	13.2	12.9	10.8	10.2	10.4	10.3			7.6	7.5	7.2	5.5	5.8	145	
150	16.4	16	14	11.2	13.7	14.7	13.4	11				11.9	12.7	12.6	10.6	9.7	10	10	8.7		7.3	7.2	7	5.3	5.5	150	
155	15.7	15.5	13.6	11	13.2	13.9	13.1	10.8				11.1	12.1	12.2	10.5	9.2	9.6	9.7	8.6		7	7	6.8	6	5	155	
160	15.1	15	13.3	10.8	12.7	13.2	12.7	10.6				10.4	11.5	11.8	10.3	8.6	9.2	9.4	8.5		6.6	6.7	6.5	5.9	4.7	160	
165	14.4	14.4	12.9	10.6	12.1	12.4	12.4	10.4				9.6	10.8	11.3	10.2	8.1	8.8	9.1	8.3		6.3	6.5	6.3	5.8	4.3	165	
170	13.8	13.7	12.4	10.5	11.6	11.7	12.1	10.3				9.1	10.2	10.8	10.1	7.6	8.3	8.8	8.2		5.9	6.2	6.1	5.7	4	170	
175	13.2	13.2	12	10.3	11.1	11.1	11.7	10.2				8.6	9.5	10.3	9.9	7.1	7.9	8.4	8.1		5.5	5.9	5.9	5.5	3.6	175	
180	12.6	12.7	11.7	10.2	10.6	10.6	11.3	10				8.3	8.9	9.8	9.8	6.5	7.4	8	8		5.1	5.6	5.7	5.4	3.2	180	
185	11.9	12.3	11.5	10	10.1	10.2	10.8	9.9				7.9	8.3	9.3	9.6	6	7	7.7	7.8			5.3	5.5	5.3	2.7	185	
190	11.3	11.8	11.2	9.9	9.6	9.7	10.1	9.6				7.5	7.7	8.8	9.5	5.5	6.5	7.3	7.6			5	5.2	5.2	2.3	190	
195	10.7	11.3	11	9.8	9.1	9.3	9.4	9.4				7.1	7.3	8.2	9.3	5.1	6.1	7	7.4			4.7	5	5	2	195	
200	10	10.8	10.7	9.7	8.5	8.8	9	9.2				6.7	7	7.6	8.9	4.8	5.6	6.6	7.3				4.8	4.9	2.3	200	
205	9.5	10.3	10.4	9.5	8	8.4	8.6	8.9				6.3	6.6	6.9	8.4	4.5	5	6.2	7.1				4.7		2.6	205	
210	9	9.8	10.1	9.4	7.5	7.9	8.2	8.6				6	6.3	6.6	7.8	4.3	4.5	5.6	6.7				4.6			210	
215	8.5	9.3	9.7	9.4	7	7.5	7.8	8.3				5.6	5.9	6.3	7.2	4	4.2	5.1	6.2				4.4			215	
220	8	8.9	9.2	9.3	6.6	7	7.5	8				5.2	5.6	6	6.6	3.7	4	4.5	5.8				4.2			220	
225	7.5	8.4	8.7	9.1	6.2	6.6	7.1	7.6				4.8	5.2	5.6	6.2	3.4	3.7	3.9	5.3				3.9			225	
230	7.1	7.9	8.3	8.9	5.7	6.2	6.6	7.3				4.4	4.9	5.3	5.9	3.1	3.4	3.6	4.8				3.6			230	
235	6.6	7.4	7.8	8.4	5.3	5.8	6.2	6.9				4.1	4.5	5	5.5		3.2	3.4	4.3							235	
240	6.1	6.9	7.3	8	4.9	5.3	5.8	6.5				3.7	4.2	4.7	5.2			3.1	3.7							240	
245	5.6	6.4	6.9	7.5	4.5	4.9	5.4	6.1				3.4	3.8	4.3	4.9			2.9	3.4							245	
250	5.2	6	6.4	7	4.1	4.5	4.9	5.6				3	3.5	3.9	4.6				2.5	3.2						250	
255	4.8	5.6	6	6.5	3.7	4.1	4.5	5.1				2.6	3.1	3.5	4.2				2.1	2.9						255	
260	4.5	5.2	5.5	6	3.3	3.7	4.1	4.7				2.1	2.7	3.2	3.8			1.7	2.6							260	
265	4.1	4.7	5.1	5.4	2.9	3.3	3.7	4.2				1.6	2.3		3.4				2.2							265	
270	3.7	4.3	4.6	4.9	2.5	3	3.3	3.8					1.8		3				1.7							270	
275	3.3	3.9	4.2	4.4	2.1	2.6	2.9	3.3						2.5													275
280	3	3.6	3.8	3.9	1.7	2.1	2.5	2.8						2													280
285	2.6	3.2	3.4			1.6	2	2.3																			285
290	2.3	2.8	3					1.6																			290
295	2	2.4	2.6																								295
300		2	2																								300

* Adapter · adapter · piece d'adaptateur · adattatore · adaptador · адаптер

Lifting capacities Forces de levage

TF 126

Height ft	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				174 ft + 7.5 ft*				Height ft
	126 ft																				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
28	55.6																				28
30	54																				30
32	52.2																				32
34	50.3																				34
36	48.5																				36
38	46.7																				38
40	44.9				43.7																40
45	41.7				41.4				39.3												45
50	38.5				39.1				37.4				35								50
55	35.3	32.3			36.8				35.6				33.6				30.9				55
60	32.8	30.1			35				33.8				32.1				29.8				60
65	30.7	28			33.3	27.9			32.3				30.7				28.7				65
70	28.5	26.1			31.7	26.7			30.9	27			29.4				27.6				70
75	26.4	24.1	22.7		30	25.6			29.5	25.9			28.3	25			26.5				75
80	24.6	22.5	21.1		28.4	24.5			28.2	24.8			27.2	24.1			25.6	22.8			80
85	23	21.1	19.8		27.2	23.6	21.1		26.8	23.9			26.2	23.2			24.8	22.1			85
90	21.5	19.7	18.5		26.1	22.6	20.1		25.7	23	19.9		25.1	22.3			23.9	21.4			90
95	20.1	18.3	17.3		25	21.7	19.1		24.7	22.1	19.1		24	21.6	18.7		23.1	20.6			95
100	18.6	17.1	16.3		23.8	20.7	18.3		23.8	21.3	18.2		23.1	20.8	18		22.2	20	17.5		100
105	17.1	16.1	15.3	12.2	22.7	19.9	17.5		22.9	20.4	17.5		22.4	20.1	17.3		21.4	19.4	16.9		105
110	15.9	15.2	14.4	11.6	21.7	19	16.7		21.9	19.6	16.8		21.6	19.4	16.7		20.7	18.8	16.3		110
115	15	14.2	13.5	11.1	20.7	18.1	16		21	18.9	16.1		20.8	18.7	16.1		20.1	18.2	15.7		115
120	14.1	13.3	12.8	10.7	19.8	17.3	15.3	11.3	20	18.1	15.4	11.3	20	18	15.5		19.5	17.6	15.2		120
125	13.2	12.4	12.2	10.3	19	16.5	14.7	11	19.3	17.3	14.8	11.1	19.3	17.4	14.9	11	18.9	17.1	14.7		125
130	12.3	11.8	11.5	10	18.2	15.7	14	10.8	18.6	16.6	14.3	10.8	18.5	16.7	14.3	10.8	18.2	16.5	14.2		130
135	11.5	11.2	10.9	9.7	17.3	15.1	13.4	10.5	17.9	15.9	13.7	10.5	17.9	16.1	13.8	10.6	17.6	16	13.7	10.5	135
140	10.9	10.7	10.3	9.4	16.5	14.5	12.9	10.2	17.1	15.3	13.2	10.3	17.2	15.5	13.3	10.4	17	15.4	13.2	10.3	140
145	10.4	10.1	9.9	9.1	15.6	13.9	12.5	10	16.4	14.7	12.7	10.1	16.6	14.8	12.8	10.1	16.4	14.9	12.8	10.1	145
150	9.9	9.6	9.5	8.8	14.7	13.3	12	9.8	15.7	14.2	12.3	9.9	16	14.3	12.4	9.9	15.7	14.3	12.4	9.8	150
155	9.4	9.2	9.1	8.5	14.2	12.7	11.6	9.6	14.9	13.6	11.9	9.7	15.4	13.9	11.9	9.7	15.2	13.8	12	9.6	155
160	8.9	8.9	8.7	8.3	13.6	12.1	11.1	9.3	14.2	13.1	11.5	9.4	14.8	13.4	11.6	9.5	14.7	13.3	11.6	9.4	160
165	8.6	8.5	8.5	8.1	13.1	11.6	10.7	9.1	13.6	12.5	11.1	9.2	14.2	12.9	11.3	9.3	14.2	12.8	11.2	9.3	165
170	8.3	8.2	8.1	8	12.5	11.2	10.4	8.9	13.1	12	10.8	9.1	13.6	12.5	11	9.1	13.7	12.4	10.9	9.1	170
175	7.9	7.9	7.9		12	10.9	10.1	8.7	12.7	11.5	10.4	8.9	13	12	10.7	8.9	13.2	12	10.7	8.9	175
180	7.7	7.7			11.4	10.6	9.8	8.6	12.2	11.2	10.1	8.7	12.4	11.6	10.4	8.8	12.6	11.7	10.4	8.8	180
185					10.9	10.2	9.5	8.4	11.8	10.9	9.8	8.5	12	11.1	10.1	8.6	12.1	11.4	10.2	8.6	185
190					10.4	9.9	9.3	8.2	11.3	10.5	9.6	8.4	11.7	10.7	9.8	8.4	11.6	11	9.9	8.5	190
195					10.1	9.5	9	8.1	10.8	10.2	9.4	8.2	11.3	10.4	9.5	8.3	11.2	10.7	9.7	8.3	195
200					9.8	9.2	8.8	8	10.4	9.9	9.1	8.1	11	10.2	9.3	8.2	10.8	10.3	9.4	8.2	200
205					9.5	9	8.6	7.9	10	9.6	8.9	8	10.6	9.9	9.1	8.1	10.4	10	9.1	8.1	205
210					9.2	8.8	8.4	7.8	9.7	9.3	8.6	7.9	10.2	9.7	8.9	8	10	9.7	9	8	210
215					8.9	8.6	8.2	7.8	9.5	9.1	8.5	7.8	9.9	9.4	8.7	7.9	9.6	9.5	8.8	7.9	215
220					8.6	8.3	8	7.8	9.2	8.9	8.3	7.8	9.5	9.2	8.5	7.8	9.2	9.2	8.6	7.8	220
225					8.3	8.1	7.8	7.8	8.9	8.7	8.1	7.7	9.3	8.9	8.3	7.7	8.9	9	8.5	7.7	225
230					8.1	7.8	7.8	7.8	8.7	8.4	8	7.7	9.1	8.7	8.2	7.7	8.5	8.8	8.3	7.7	230
235					7.9	7.6	7.7		8.4	8.2	7.8	7.7	8.8	8.6	8.1	7.6	8.1	8.6	8.2	7.6	235
240					7.7	7.5	7.6		8.2	8	7.7	7.7	8.6	8.4	7.9	7.6	7.7	8.3	8	7.6	240
245					7.6	7.4	7.6		8	7.9	7.7	7.7	8.4	8.2	7.8	7.6	7.3	8	7.7	7.5	245
250					7.5				7.8	7.8	7.6		8.2	8.1	7.7	7.6	6.9	7.6	7.4	7.5	250
255									7.7	7.7	7.5		8	7.9	7.6	7.6	6.5	7.2	7.1	7.3	255
260									7.5	7.5	7.5		7.8	7.7	7.5	7.6	6.1	6.8	6.8	7.2	260
265									7.2	7.5			7.6	7.7	7.5		5.7	6.3	6.5	7	265
270													7.4	7.6	7.5		5.4	5.9	6.2	6.5	270
275													7.2	7.5	7.5		5	5.5	5.8	6	275
280													5.2	7.4	2		4.6	5.1	5.3		280
285																	4.2	4.7	4.9		285
290																	3.8	4.3	4.5		290
295																	3.1	3.8	3.9		295

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

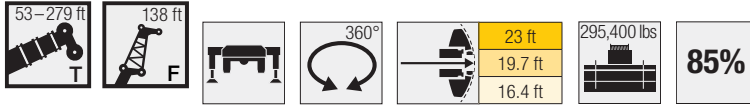
TF 126

	191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				243 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*		279 ft + 7.5 ft*	
	126 ft																							
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	0°	
60	27.4																						60	
65	26.7				23.5																		65	
70	25.9				23					19.2													70	
75	25.1				22.4					18.7				14.4									75	
80	24.4				21.8					18.1				14.1				10					80	
85	23.7	20.6			21.3					17.6				13.7				9.8				6.9	85	
90	23	20.1			20.7					17.1				13.3				9.5				6.8	6	90
95	22.3	19.5			20.1	17.9				16.6				12.9				9.2				6.7	6	95
100	21.7	18.9			19.6	17.4				16.1	15.7			12.4				9				6.6	5.9	100
105	21	18.3	16.2		19	17				15.6	15.4			12	11.9			8.7				6.4	5.9	105
110	20.4	17.8	15.7		18.5	16.5				15.1	14.9			11.7	11.6			8.4	7.9			6.2	5.8	110
115	19.7	17.3	15.2		17.9	16.1	14.3			14.7	14.4			11.3	11.3			8.1	7.6			6	5.7	115
120	19	16.9	14.7		17.4	15.7	13.8			14.2	14	10.6		10.9	10.9			7.8	7.4			5.9	5.7	120
125	18.3	16.4	14.2		16.8	15.3	13.4			13.7	13.5	12.5		10.6	10.6	7		7.6	7.2			5.6	5.5	125
130	17.6	15.9	13.8		16.2	14.8	13			13.3	13.1	12.1		10.2	10.2	9.7		7.3	6.9			5.4	5.3	130
135	17	15.4	13.3		15.4	14.4	12.6			12.8	12.7	11.8		9.8	9.9	9.5		7	6.7	6.2		5.1	5.1	135
140	16.5	15	12.9	10.1	14.6	14	12.2			12.2	12.3	11.5		9.4	9.5	9.2		6.8	6.5	6		4.8	4.9	140
145	15.9	14.5	12.4	9.9	13.8	13.6	11.9	9.6		11.6	11.9	11.2		9.1	9.2	9		6.5	6.2	5.8		4.5	4.7	145
150	15.4	14	12.1	9.7	13	13.1	11.5	9.4	11	11.5	10.9			8.6	8.9	8.8		6.2	6	5.7		4.2	4.5	150
155	14.9	13.6	11.8	9.5	12.1	12.5	11.2	9.3	10.3	11	10.7	9		8.2	8.5	8.5		6	5.8	5.5		3.8	4.2	155
160	14.3	13.1	11.5	9.3	11.4	12	10.9	9.1	9.6	10.5	10.5	8.8		7.7	8.2	8.2	7.1	5.7	5.6	5.3		3.5	3.9	160
165	13.8	12.7	11.1	9.1	11	11.4	10.7	8.9	9	10	10.2	8.7		7.3	7.8	8	7	5.4	5.4	5.1	4.5	3.2	3.6	165
170	13.2	12.2	10.8	9	10.5	10.8	10.5	8.8	8.3	9.4	9.9	8.6		6.8	7.5	7.7	6.9	5	5.1	4.9	4.4	2.8	3.3	170
175	12.6	11.6	10.5	8.8	10.1	10.3	10.2	8.7	7.7	8.9	9.6	8.4		6.3	7.1	7.4	6.8	4.7	4.9	4.8	4.3	2.4	3	175
180	12.1	11.1	10.2	8.7	9.6	9.7	10	8.5	7.3	8.3	9.1	8.3		5.1	6.7	7.1	6.7	4.3	4.7	4.6	4.2	2.1	2.7	180
185	11.5	10.8	9.9	8.6	9.1	9.3	9.8	8.4	6.9	7.7	8.6	8.2		4.8	6.3	6.8	6.6	4	4.4	4.4	4.1	1.8	2.4	185
190	10.9	10.4	9.7	8.4	8.7	8.9	9.4	8.3	6.6	7.2	8.2	8.1		4.5	5.9	6.5	6.4		4.1	4.2	4		2.1	190
195	10.3	10	9.5	8.3	8.2	8.5	9	8.1	6.2	6.6	7.7	8		4.2	5.5	6.2	6.3		3.8	4	3.9		1.8	195
200	9.8	9.7	9.3	8.2	7.8	8.1	8.4	8	5.9	6.1	7.2	7.9	4	4	4.1	5.8	6.1		3.5	3.8	3.8			200
205	9.2	9.3	9.1	8.1	7.3	7.7	7.9	7.8	5.5	5.8	6.7	7.8	3.7	3.7	3.9	5.5	6			3.6	3.7			205
210	8.7	8.9	8.9	8	6.9	7.3	7.6	7.6	5.2	5.5	6.1	7.5	3.5	3.7	5.2	5.8					3.5			210
215	8.2	8.6	8.7	7.8	6.4	6.9	7.2	7.4	4.9	5.2	5.5	7	3.1	3.4	4.8	5.7					3.4			215
220	7.8	8.2	8.5	7.7	5.9	6.4	6.8	7.2	4.5	4.8	5.2	6.5	2.8	3.2	4.3	5.3					3.3			220
225	7.3	7.8	8.1	7.7	5.5	6	6.5	7	4.2	4.5	4.9	5.9	2.4	2.8	3.8	4.9					3.1			225
230	6.9	7.3	7.7	7.6	5.1	5.6	6.1	6.7	3.8	4.2	4.6	5.4	2.1	2.5	3.3	4.5					2.8			230
235	6.4	6.9	7.3	7.5	4.8	5.2	5.7	6.4	3.5	3.9	4.4	4.9	1.7	2.2	2.6	4.1					2.5			235
240	6	6.4	6.8	7.3	4.4	4.8	5.3	6	3.1	3.6	4.1	4.6		1.9	2.1	2.8					2.2			240
245	5.5	6	6.4	7	4	4.5	4.9	5.6	2.7	3.3	3.8	4.3		1.6		2.6								245
250	5.1	5.6	6	6.6	3.6	4.1	4.5	5.3	2.3	2.9	3.5	4				2.3								250
255	4.6	5.1	5.6	6.2	3.2	3.7	4.1	4.9	1.9	2.6	3.1	3.7				2								255
260	4.3	4.7	5.1	5.8	2.9	3.3	3.8	4.4		2.1	2.8	3.4				1.7								260
265	3.9	4.3	4.7	5.3		2.9	3.4	4		1.7	2.3	3.1												265
270	3.6	4	4.3	4.8			3	3.6			1.8	2.7												270
275	3.2	3.6	3.9	4.3			2.6	3.2				2.2												275
280	2.9	3.2	3.5	3.8			2.1	2.7				1.6												280
285	2.5	2.9	3.1	3.3			1.6	2.2																285
290	2.1	2.5	2.7	2.8				1.6																290
295	1.7	2.1	2.3																					295
300		1.6	1.8																					300

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 138



Lifting Capacity (lbs)	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				174 ft + 7.5 ft*				Lifting Capacity (lbs)
	0°	10°	20°	40°	0°	10°	20°	40°	138 ft				0°	10°	20°	40°	0°	10°	20°	40°	
30	50																			30	
32	48.5																			32	
34	46.9																			34	
36	45.3																			36	
38	43.7																			38	
40	42.2																			40	
45	38.9				37.1				35.1											45	
50	36.2				35.2				33.5				31.2							50	
55	33.4	29.5			33.2				31.9				29.9				27.7			55	
60	30.8	27.7			31.5				30.3				28.7				26.8			60	
65	28.8	25.9			30				28.8				27.4				26			65	
70	26.9	24.2			28.6	25			27.6	24			26.2				25.2			70	
75	25.1	22.5			27.1	23.9			26.5	23.2			25.2	22.1			24.4			75	
80	23.3	20.9	19.6		25.7	22.8			25.3	22.3			24.3	21.4			23.6			80	
85	21.7	19.4	18.2		24.3	21.8			24.1	21.3			23.3	20.6			22.9	19.5		85	
90	20.3	18.2	17		23.3	20.9	18		22.9	20.5			22.4	19.8			22.1	18.9		90	
95	19	16.9	15.9		22.4	20	17.2		22	19.7	17		21.4	19.1			21.3	18.2		95	
100	17.7	15.7	14.9		21.4	19.1	16.3		21.2	19	16.2		20.5	18.4	15.9		20.5	17.6		100	
105	16.4	14.7	13.9		20.4	18.3	15.6		20.3	18.2	15.5		19.8	17.8	15.3		19.8	17.1	14.7	105	
110	15.2	13.8	13.1		19.4	17.5	14.9		19.5	17.5	14.8		19.1	17.2	14.7		19	16.5	14.3	110	
115	14	13	12.3	10	18.5	16.7	14.2		18.7	16.8	14.2		18.4	16.6	14.1		18.5	16	13.7	115	
120	13.1	12.2	11.5	9.5	17.6	15.9	13.5		17.8	16.1	13.6		17.7	15.9	13.5		17.9	15.5	13.2	120	
125	12.4	11.5	10.9	9.2	16.9	15.1	12.9		17	15.4	13		17	15.3	13		17.3	15	12.7	125	
130	11.7	10.7	10.4	8.8	16.1	14.3	12.4	9.3	16.4	14.7	12.5	9.3	16.4	14.8	12.4		16.8	14.5	12.3	130	
135	11	10	9.9	8.5	15.4	13.7	11.8	9.1	15.7	14	12	9.1	15.7	14.2	11.9	9.1	16.2	14	11.8	135	
140	10.3	9.6	9.4	8.2	14.7	13.2	11.3	8.8	15.1	13.4	11.5	8.9	15.1	13.6	11.5	8.9	15.7	13.5	11.4	8.8	140
145	9.6	9.1	8.9	7.9	13.9	12.7	10.9	8.6	14.5	12.9	11.1	8.7	14.6	13	11.2	8.7	15.1	13	11	8.7	145
150	9.1	8.7	8.5	7.6	13.1	12.1	10.5	8.4	13.8	12.4	10.7	8.5	14	12.5	10.8	8.5	14.5	12.5	10.7	8.5	150
155	8.7	8.2	8.2	7.4	12.4	11.6	10.1	8.2	13.2	12	10.3	8.3	13.5	12	10.4	8.3	13.9	12	10.4	8.3	155
160	8.3	7.8	7.8	7.1	11.8	11.1	9.8	8	12.5	11.6	10	8.1	13	11.6	10.1	8.1	13.5	11.5	10.1	8.1	160
165	7.9	7.5	7.4	6.9	11.4	10.6	9.5	7.8	11.9	11.1	9.7	7.9	12.5	11.3	9.8	7.9	13.1	11.1	9.8	7.9	165
170	7.4	7.2	7.1	6.7	11	10.1	9.1	7.6	11.4	10.7	9.4	7.7	12	10.9	9.5	7.7	12.6	10.7	9.5	7.7	170
175	7.1	6.9	6.8	6.5	10.5	9.7	8.8	7.4	10.9	10.2	9.1	7.5	11.5	10.5	9.2	7.6	12.2	10.4	9.2	7.5	175
180	6.8	6.6	6.6	6.3	10.1	9.4	8.5	7.2	10.6	9.8	8.8	7.4	10.9	10.2	9	7.4	11.7	10.1	9	7.4	180
185	6.5	6.4	6.3		9.7	9.1	8.3	7.1	10.2	9.4	8.5	7.2	10.4	9.8	8.7	7.3	11.3	9.8	8.8	7.2	185
190	6.3	6.2	6.3		9.3	8.8	8	6.9	9.9	9.2	8.3	7	10.1	9.5	8.5	7.1	10.9	9.5	8.6	7.1	190
195					8.9	8.5	7.8	6.8	9.5	8.9	8.1	6.9	9.8	9.1	8.2	6.9	10.4	9.3	8.3	7	195
200					8.5	8.2	7.5	6.6	9.2	8.6	7.8	6.7	9.5	8.8	8	6.8	10	9	8.1	6.8	200
205					8.3	7.9	7.3	6.5	8.8	8.4	7.6	6.6	9.2	8.6	7.8	6.7	9.6	8.7	7.9	6.7	205
210					8	7.7	7.1	6.4	8.5	8.1	7.4	6.5	8.9	8.4	7.6	6.6	9.3	8.4	7.7	6.6	210
215					7.7	7.5	6.9	6.3	8.2	7.8	7.2	6.4	8.6	8.1	7.4	6.5	8.9	8.2	7.4	6.5	215
220					7.5	7.2	6.8	6.2	7.9	7.6	7	6.3	8.3	7.9	7.2	6.4	8.5	8	7.3	6.4	220
225					7.2	7	6.6	6.2	7.7	7.4	6.8	6.2	8	7.7	7.1	6.3	8.2	7.8	7.1	6.3	225
230					6.9	6.8	6.4	6.2	7.5	7.2	6.7	6.2	7.7	7.5	6.9	6.2	7.8	7.5	7	6.2	230
235					6.7	6.6	6.3	6.2	7.2	7	6.6	6.1	7.5	7.2	6.7	6.2	7.5	7.3	6.8	6.1	235
240					6.5	6.4	6.2	6.2	7	6.8	6.4	6.1	7.3	7.1	6.6	6.1	7.1	7.1	6.7	6.1	240
245					6.3	6.3	6.1		6.8	6.6	6.3	6.1	7.1	6.9	6.5	6	6.7	6.9	6.5	6	245
250					6.2	6.2	6		6.5	6.4	6.2	6.1	6.9	6.8	6.3	6	6.4	6.7	6.4	6	250
255					6	6	6		6.4	6.3	6.1	6.1	6.8	6.6	6.2	6	6	6.4	6.1	6	255
260					6	6			6.3	6.2	6		6.6	6.5	6.1	6	5.6	6	5.8	5.9	260
265									6.1	6.1	6		6.4	6.3	6	6	5.3	5.6	5.5	5.8	265
270									6	6	6		6.2	6.2	6	6	4.9	5.2	5.3	5.7	270
275									5.9	6			6	6.1	6		4.5	4.8	5	5.5	275
280													5.9	6	5.9		4.1	4.4	4.7	5.1	280
285													5.7	6	5.9		3.8	4	4.3	4.5	285
290													4.6	5.9	5.9		3.4	3.7	3.9		290
295															2.5		3	3.3	3.5		295
300																	2.7	2.9	3.1		300
305																	2.5	2.6			305

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

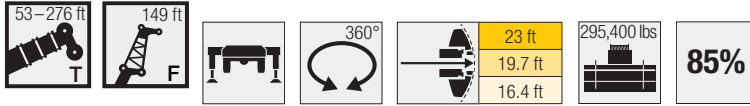
TF 138

	191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				243 ft + 7.5 ft*				261 ft + 7.5 ft*				276 ft + 7.5 ft*		279 ft + 7.5 ft*	
	138 ft																							
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	0°	
60	24.5																						60	
65	23.8																						65	
70	23				20.3																		70	
75	22.3				19.7			16.6															75	
80	21.6				19.2			16.1				12.2											80	
85	20.9				18.7			15.6				11.9				8.2							85	
90	20.3	17.6			18.1			15.2				11.5			7.9						4.1		3.5	90
95	19.7	17.1			17.6			14.7				11.2			7.7						4.1		3.4	95
100	19.1	16.6			17.2	15.2		14.2				10.8			7.4						4.1		3.4	100
105	18.5	16.1			16.8	14.8		13.8	13.3			10.5			7.1						4.1		3.4	105
110	17.9	15.6			16.3	14.4		13.4	13			10.1	9.9		6.9						4		3.4	110
115	17.4	15.1	13.2		15.9	14		12.9	12.6			9.8	9.7		6.6	6.1					3.9		3.4	115
120	16.8	14.7	12.7		15.5	13.6	11.9		12.5	12.3		9.4	9.4		6.3	5.9					3.9		3.4	120
125	16.2	14.2	12.3		15	13.2	11.5		12.1	11.9		9.1	9.1		6.1	5.7					3.8	3.7	3.4	125
130	15.6	13.8	11.8		14.6	12.8	11.2		11.7	11.5	10.4	8.7	8.8		5.9	5.5					3.6	3.6	3.2	130
135	15	13.4	11.5		14.1	12.5	10.9		11.3	11.1	10.2	8.4	8.5	5.1	5.6	5.3					3.3	3.3	3	135
140	14.5	12.9	11.1		13.4	12.1	10.6		10.8	10.8	10	8.1	8.2	7.7	5.4	5.1	4.4				3.1	3.1	2.6	140
145	14.1	12.6	10.8		12.7	11.7	10.3		10.3	10.4	9.7	7.7	7.9	7.6	5.2	4.9	4.3				2.8	2.9	2.3	145
150	13.6	12.2	10.5	8.3	11.9	11.3	10		9.8	10	9.5	7.4	7.5	7.4	4.9	4.7	4.2				2.5	2.7	2	150
155	13.2	11.8	10.1	8.1	11.2	10.9	9.8	7.9	9.2	9.7	9.2	7	7.2	7.2	4.7	4.5	4				2.2	2.5	1.7	155
160	12.7	11.4	9.9	7.9	10.4	10.5	9.5	7.7	8.6	9.3	9	6.6	6.9	7	4.5	4.3	3.8				2.2		160	
165	12.2	11.1	9.6	7.8	9.7	10	9.3	7.5	8	8.9	8.8	7.3	6.2	6.6	6.7	4.2	4.1	3.6			2		165	
170	11.8	10.7	9.4	7.6	9.2	9.6	9.1	7.4	7.4	8.4	8.5	7.2	5.7	6.3	6.4	2.9	3.8	3.8	3.4			1.8	170	
175	11.3	10.3	9.1	7.4	8.8	9.1	8.8	7.3	6.4	7.9	8.3	7.1	5.3	6	6.2	5.5	3.4	3.6	3.3			1.6	175	
180	10.8	9.9	8.9	7.3	8.4	8.6	8.6	7.1	6.1	7.4	8	6.9	4.9	5.6	5.9	5.4	3	3.3	3.1	2.4			180	
185	10.3	9.4	8.7	7.2	8	8.2	8.4	7	5.8	6	7.6	6.8		5.3	5.6	5.3	2.6	3.1	2.9	2.3			185	
190	9.8	9.1	8.3	7	7.5	7.8	8.2	6.9	5.4	5.6	7.2	6.7		4.9	5.4	5.2	2.2	2.8	2.7	2.2			190	
195	9.3	8.8	8.1	6.9	7.1	7.4	8	6.8	5.1	5.3	6.8	6.6		4.5	5.1	5.1	1.8	2.4	2.5	2			195	
200	8.8	8.5	7.9	6.8	6.7	7	7.7	6.7	4.8	5	6.4	6.5		4.1	4.8	5		2.1	2.3	2			200	
205	8.3	8.1	7.8	6.7	6.3	6.6	7.4	6.5	4.5	4.7	6	6.4			4.5	4.9		1.8	2.1	1.9			205	
210	7.8	7.8	7.6	6.6	5.9	6.3	6.7	6.4	4.2	4.4	5.6	6.3			2.2	4.7			1.9	1.8			210	
215	7.3	7.5	7.4	6.5	5.5	5.9	6.2	6.2	3.8	4.1	5.1	6.2			2	4.5			1.7	1.7			215	
220	6.8	7.2	7.2	6.4	5	5.5	5.9	6	3.5	3.8	4.5	6.1			1.8	4.3				1.6			220	
225	6.4	6.9	7.1	6.2	4.6	5.2	5.5	5.8	3.2	3.6	4	5.6			1.6	4.1							225	
230	6	6.5	6.9	6.1	4.2	4.8	5.2	5.7		3.3	3.6	5.1				3.9							230	
235	5.6	6.1	6.5	6.1	3.8	4.4	4.9	5.5		2.9	3.4	4.6				3.5							235	
240	5.2	5.7	6.1	6	3.5	4	4.6	5.2		2.6	3.1	4.1				3.1							240	
245	4.8	5.3	5.7	6	3.1	3.7	4.2	4.9		2.2		3.5				2.6							245	
250	4.3	4.9	5.3	5.9	2.7	3.3	3.8	4.6				3.1											250	
255	3.9	4.5	4.9	5.5	2.3	2.9	3.5	4.2				2.9											255	
260	3.5	4.1	4.5	5.1	1.8	2.5	3.1	3.9				2.6											260	
265	3.1	3.7	4.1	4.8		2	2.7	3.5				2.2											265	
270	2.8	3.3	3.7	4.4		1.6		3.1				1.8											270	
275	2.4	2.9	3.3	4				2.7															275	
280	2	2.5	2.9	3.5				2.2															280	
285	1.6	2.1	2.5	3				1.6															285	
290		1.6	2	2.5																			290	
295				1.9																			295	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 149

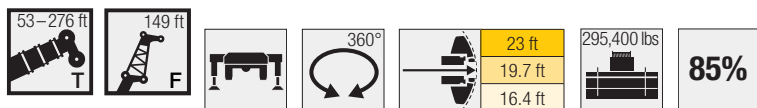


Lift Height	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				174 ft + 7.5 ft*				Lift Height	
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°		
32	43.7																				32	
34	42.4																				34	
36	41.1																				36	
38	39.9																				38	
40	38.6																				40	
45	35.5				33.3																45	
50	33.1				31.6				29.9				27.9								50	
55	30.8				29.9				28.6				27								55	
60	28.6	26.5			28.3				27.2				26.1					24.4			60	
65	26.4	24.9			26.9				25.9				25.2					23.6			65	
70	24.8	23.2			25.7				24.7				24.3					22.7			70	
75	23.3	21.7			24.5	21.5			23.7	20.8			23.4					21.9			75	
80	21.7	20.3			23.2	20.6			22.7	20			22.6	19.1				21			80	
85	20.1	18.9	17		22	19.6			21.7	19.2			21.7	18.4				20.3			85	
90	18.8	17.5	15.8		21	18.8			20.7	18.3			20.9	17.7				19.7	16.8		90	
95	17.5	16.5	14.7		20.1	18			19.7	17.6			20	17				19	16.2		95	
100	16.4	15.4	13.8		19.2	17.3	14.8		18.9	17	14.5		19.2	16.4				18.3	15.7		100	
105	15.3	14.3	12.9		18.4	16.5	14		18.2	16.3	13.9		18.4	15.8	13.6			17.6	15.1		105	
110	14.2	13.3	12		17.6	15.8	13.3		17.5	15.7	13.3		17.8	15.3	13.1			17	14.6		110	
115	13.1	12.4	11.3		16.7	15.1	12.7		16.8	15	12.7		17.2	14.7	12.5			16.3	14.2	12.2	115	
120	12.1	11.8	10.7		15.9	14.4	12.1		16	14.4	12.2		16.6	14.2	12			15.8	13.7	11.7	120	
125	11.2	11.2	10.2	8.3	15.2	13.7	11.5		15.3	13.8	11.6		16	13.6	11.5			15.3	13.2	11.2	125	
130	10.7	10.5	9.6	8	14.6	13	11		14.6	13.2	11.1		15.4	13.1	11.1			14.9	12.8	10.8	130	
135	10.1	9.9	9.1	7.6	13.9	12.3	10.6	8	14.1	12.6	10.7		14.8	12.7	10.7			14.4	12.3	10.5	135	
140	9.6	9.3	8.7	7.3	13.3	11.7	10.2	7.7	13.5	12	10.3	7.7	14.2	12.2	10.3			13.9	11.9	10.2	140	
145	9	8.8	8.3	7	12.7	11.2	9.8	7.5	13	11.5	9.9	7.5	13.6	11.7	9.9	7.5		13.4	11.5	9.8	145	
150	8.5	8.3	7.9	6.8	12	10.8	9.4	7.3	12.5	11	9.6	7.3	13.1	11.2	9.6	7.3		12.9	11.2	9.5	7.3	150
155	8	7.9	7.4	6.5	11.4	10.4	9.1	7.1	12	10.5	9.2	7.1	12.7	10.7	9.3	7.2		12.4	10.8	9.2	7.2	155
160	7.6	7.5	7.1	6.3	10.8	10	8.8	6.9	11.4	10.2	8.9	7	12.3	10.2	9	7		11.9	10.4	9	7	160
165	7.3	7.1	6.8	6.1	10.2	9.6	8.5	6.7	10.9	9.9	8.6	6.8	11.8	9.9	8.7	6.8		11.5	10	8.7	6.8	165
170	6.9	6.7	6.4	5.8	9.8	9.2	8.2	6.6	10.4	9.5	8.3	6.6	11.4	9.6	8.4	6.7		11.2	9.6	8.5	6.7	170
175	6.5	6.4	6.2	5.6	9.4	8.8	7.9	6.4	9.9	9.2	8.1	6.5	10.9	9.3	8.2	6.5		10.8	9.3	8.2	6.5	175
180	6.2	6.2	5.9	5.4	9.1	8.4	7.6	6.2	9.5	8.8	7.8	6.3	10.5	9.1	7.9	6.4		10.5	9	7.9	6.4	180
185	5.9	5.9	5.6	5.3	8.7	8.1	7.3	6.1	9.1	8.5	7.6	6.2	10	8.8	7.7	6.2		10.1	8.7	7.7	6.2	185
190	5.6	5.6	5.4	5.2	8.4	7.9	7.1	5.9	8.8	8.2	7.3	6	9.6	8.5	7.5	6.1		9.8	8.5	7.5	6.1	190
195	5.3	5.4	5.2	5.1	8	7.6	6.8	5.8	8.5	7.9	7.1	5.9	9.2	8.2	7.2	5.9		9.4	8.2	7.3	5.9	195
200	5.1	5.1	5.1		7.7	7.3	6.6	5.7	8.2	7.6	6.8	5.7	8.9	7.9	7	5.8		9.1	8	7.1	5.8	200
205					7.3	7.1	6.4	5.5	7.9	7.4	6.6	5.6	8.6	7.6	6.8	5.7		8.7	7.7	6.9	5.7	205
210					7.1	6.8	6.2	5.4	7.6	7.2	6.5	5.5	8.3	7.3	6.6	5.5		8.4	7.5	6.7	5.6	210
215					6.8	6.5	6	5.3	7.3	6.9	6.3	5.4	8.1	7.1	6.4	5.4		8	7.2	6.5	5.5	215
220					6.6	6.3	5.8	5.2	7	6.7	6.1	5.3	7.8	6.9	6.2	5.3		7.7	7	6.3	5.3	220
225					6.3	6.1	5.6	5.1	6.7	6.5	5.9	5.2	7.5	6.7	6.1	5.2	7.4		6.8	6.1	5.3	225
230					6.1	5.9	5.5	5	6.5	6.2	5.7	5.1	7.3	6.5	5.9	5.1	7.1		6.6	6	5.2	230
235					5.9	5.7	5.3	5	6.3	6.1	5.6	5	7	6.3	5.8	5.1	6.8		6.4	5.8	5.1	235
240					5.6	5.5	5.2	5	6.1	5.9	5.5	5	6.7	6.1	5.6	5	6.5		6.2	5.7	5	240
245					5.4	5.4	5.1	5	5.9	5.7	5.3	4.9	6.6	5.9	5.5	5	6.2		6	5.6	5	245
250					5.3	5.2	5	5	5.7	5.6	5.2	4.9	6.4	5.8	5.3	4.9	5.8		5.8	5.4	4.9	250
255					5.1	5.1	4.9	5	5.5	5.4	5.1	4.9	6.2	5.6	5.2	4.9	5.5		5.6	5.3	4.8	255
260					5	5	4.8		5.3	5.2	5	4.9	6	5.5	5.1	4.9	5.2		5.4	5.1	4.8	260
265					4.8	4.9	4.8		5.2	5.1	4.9	4.9	5.8	5.4	5	4.9	4.9		5.2	4.9	4.8	265
270					4.8	4.9			5	5	4.8	4.9	5.6	5.2	4.9	4.9	4.5		4.9	4.7	4.7	270
275									4.9	4.9	4.8		5.4	5.1	4.8	4.9	4.2		4.6	4.5	4.7	275
280									4.8	4.8	4.8		5.3	5	4.8	4.9	3.8		4.2	4.2	4.6	280
285									4.7	4.8	4.8		5.1	4.9	4.8	4.9	3.5		3.8	4	4.5	285
290													5	4.8	4.7		3.2		3.5	3.7	4.1	290
295													4.8	4.8	4.7		2.8		3.1	3.4	3.6	295
300													4.5	4.7	4.7		2.5		2.8	3		300
305														3.7			2.1		2.4	2.6		305
310																	1.7		2	2.3		310
315																		1.6	1.7			315

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 149



	191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				243 ft + 7.5 ft*				261 ft + 7.5 ft*			276 ft + 7.5 ft*	
	0°	10°	20°	40°	0°	10°	20°	40°	149 ft				0°	10°	20°	40°	0°	10°	20°	0°	
65	21.1																			65	
70	20.5				17.9															70	
75	19.9				17.5				12.6											75	
80	19.2				17				14.5					8.1						80	
85	18.6				16.5				14.1					10.5						85	
90	18				16				13.7					10.2			6.6		2.6	90	
95	17.5	15.1			15.6				13.3					9.9			6.4		2.6	95	
100	17	14.6			15.2				12.8					9.6			6.2		2.5	100	
105	16.4	14.2			14.8	12.9			12.4					9.2			5.9		2.5	105	
110	15.9	13.7			14.4	12.6			12	11.3				8.9			5.7		2.5	110	
115	15.4	13.3			14	12.2			11.6	11.1				8.6	5.4		5.4		2.4	115	
120	14.9	12.9	11.1		13.6	11.9			11.3	10.8				8.3	8		5.2	4.4	2.4	120	
125	14.4	12.5	10.8		13.2	11.5			10.9	10.5				8	7.8		5	4.2	2.4	125	
130	13.9	12.1	10.5		12.8	11.3	9.9		10.5	10.3				7.7	7.6		4.7	4.1	2.3	130	
135	13.5	11.7	10.2		12.5	11	9.7		10.1	10	7			7.4	7.4		4.5	3.9	2.2	135	
140	13	11.4	9.9		12	10.7	9.4		9.7	9.7	8.8			7.1	7.1	3.5	4.3	3.7	2	140	
145	12.6	11	9.6		11.4	10.4	9.1		9.4	9.3	8.5			6.8	6.9	6.2	4	3.5	1.8	145	
150	12.1	10.7	9.3		10.8	10.1	8.9		8.9	9	8.3			6.5	6.6	6	3.8	3.3	2.6	150	
155	11.7	10.4	9		10.2	9.8	8.6		8.4	8.7	8.1			6.1	6.3	5.9	3.5	3.1	2.5	155	
160	11.3	10.1	8.7	6.9	9.6	9.5	8.4		7.9	8.3	7.9			5.8	6.1	5.7	3.3	2.9	2.3	160	
165	10.9	9.8	8.5	6.7	9	9.1	8.2	6.5	7.4	8	7.7			5.5	5.8	5.5	3	2.7	2.2	165	
170	10.5	9.5	8.3	6.5	8.4	8.7	8	6.4	6.9	7.6	7.5			5.1	5.5	5.4	2.8	2.5	2	170	
175	10.1	9.2	8	6.4	7.9	8.3	7.8	6.2	6.3	7.2	7.3	6		4.7	5.2	5.2	2.4	2.3	1.9	175	
180	9.7	8.9	7.8	6.2	7.6	8	7.6	6.1	5.8	6.8	7.1	5.9		4.3	4.9	5	2.1	2.1	1.8	180	
185	9.3	8.6	7.6	6.1	7.2	7.6	7.4	6	5	6.4	6.8	5.8		3.9	4.6	4.8	4.2	1.8	1.7	185	
190	8.9	8.2	7.4	6	6.8	7.2	7.2	5.8	4.7	5.9	6.6	5.7			4.3	4.6	4.1	1.8	1.6	190	
195	8.4	7.9	7.2	5.8	6.4	6.7	7	5.7	4.4	5.5	6.2	5.6			4	4.4	4	1.6		195	
200	8	7.6	6.9	5.7	6.1	6.3	6.8	5.6	4.1	5	5.9	5.5			3.6	4.1	3.9			200	
205	7.6	7.3	6.7	5.6	5.7	5.9	6.6	5.5	3.8	4.1	5.5	5.3			3.2	3.9	3.9			205	
210	7.2	7	6.6	5.5	5.3	5.6	6.4	5.4	3.5	3.8	5.1	5.3			2.8	3.6	3.8			210	
215	6.8	6.7	6.4	5.4	4.9	5.3	6	5.3	3.2	3.5	3.7	5.2				3.4	3.7			215	
220	6.4	6.5	6.3	5.3	4.6	5	5.4	5.2	2.8	3.2	3.5	5.1					3.5			220	
225	5.9	6.2	6.1	5.2		4.6	4.9	5	2.4	2.9	3.2	5					3.4			225	
230	5.5	5.9	5.9	5.1		4.3	4.6	4.9	2	2.5	3	4.9					3.2			230	
235	5.2	5.6	5.8	5		4	4.3	4.7	1.7	2.2	2.7	4.5					3.1			235	
240	4.8	5.3	5.6	4.9		3.7	4.1	4.5		1.9	2.3	4.1					2.8			240	
245	4.4	4.9	5.3	4.9			3.8	4.3			2	3.6					2.4			245	
250	4	4.6	4.9	4.8			3.5	4.1			1.7	2.5					2			250	
255	3.6	4.2	4.6	4.8			3.2	3.8				2.2								255	
260	3.2	3.8	4.2	4.7			2.8	3.5				1.9								260	
265	2.9	3.4	3.9	4.4			2.4	3.2				1.5								265	
270		3.1	3.5	4.1			1.9	2.9												270	
275			3.1	3.8				2.5												275	
280			2.7	3.4				2.1												280	
285			2.3	3																285	
290			1.8	2.6																290	
295				2																295	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 161

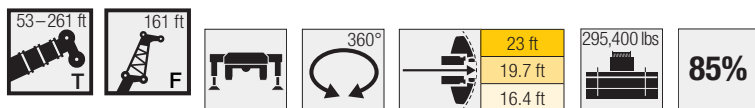
53-261 ft
161 ft
360°
23 ft
19.7 ft
16.4 ft
295,400 lbs
85%

	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				174 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	161 ft				0°	10°	20°	40°	0°	10°	20°	40°	
34	38.6																			34	
36	37.5																			36	
38	36.5																			38	
40	35.4																			40	
45	32.6				29.8															45	
50	30.2				28.4				27.4											50	
55	28.3				27				26.3				24.7							55	
60	26.3				25.5				25.2				23.8				21.7			60	
65	24.4	22.9			24.2				24.1				22.8				20.9			65	
70	22.6	21.5			23.1				23.1				21.8				20.2			70	
75	21.3	20.1			22	19.2			22.2				20.9				19.4			75	
80	20	18.8			20.9	18.5			21.2	17.8			20.1				18.7			80	
85	18.6	17.5			19.9	17.6			20.3	17.1			19.3	16.3			17.9			85	
90	17.3	16.3	14.5		18.9	16.8			19.4	16.4			18.6	15.7			17.4	14.6		90	
95	16.1	15	13.5		18	16.1			18.5	15.7			17.8	15.1			16.8	14.2		95	
100	15.1	14.1	12.6		17.3	15.4			17.7	15			17.1	14.5			16.2	13.7		100	
105	14.1	13.2	11.8		16.6	14.7	12.5		17	14.4			16.4	13.9			15.6	13.2		105	
110	13.2	12.3	11.1		15.9	14.1	11.8		16.3	13.9	11.8		15.7	13.4			15	12.7		110	
115	12.3	11.4	10.4		15.2	13.4	11.2		15.7	13.3	11.2		15.1	12.9	11		14.4	12.3		115	
120	11.4	10.6	9.8		14.4	12.8	10.7		15	12.7	10.7		14.6	12.4	10.6		13.9	11.9	10.2	120	
125	10.5	10	9.3		13.7	12.2	10.3		14.4	12.2	10.3		14.1	11.9	10.2		13.4	11.5	9.9	125	
130	9.6	9.5	8.8		13.1	11.7	9.9		13.7	11.7	9.9		13.5	11.5	9.8		13	11.1	9.5	130	
135	9.2	9	8.3	6.7	12.6	11.1	9.4		13.1	11.2	9.5		13	11	9.5		12.5	10.7	9.2	135	
140	8.7	8.5	7.8	6.4	12.1	10.5	9.1		12.6	10.8	9.1		12.5	10.6	9.1		12.1	10.3	8.9	140	
145	8.2	8	7.4	6.1	11.6	10	8.7	6.4	12.1	10.3	8.8		12	10.3	8.8		11.7	9.9	8.6	145	
150	7.7	7.5	7	5.8	11.1	9.6	8.4	6.2	11.6	9.8	8.5	6.2	11.5	9.9	8.4		11.2	9.6	8.3	150	
155	7.3	7.1	6.7	5.6	10.6	9.2	8	6	11.2	9.4	8.2	6	11.1	9.5	8.2	6	10.8	9.3	8	155	
160	6.8	6.7	6.3	5.3	10	8.9	7.7	5.8	10.7	9	7.8	5.8	10.7	9.1	7.9	5.9	10.3	9	7.8	5.8	160
165	6.4	6.4	5.9	5.1	9.5	8.5	7.4	5.7	10.3	8.7	7.5	5.7	10.3	8.8	7.6	5.7	9.9	8.7	7.5	5.7	165
170	6.1	6	5.6	4.9	9	8.2	7.1	5.5	9.8	8.4	7.3	5.5	10	8.5	7.3	5.5	9.5	8.4	7.3	5.5	170
175	5.8	5.7	5.3	4.7	8.6	7.8	6.9	5.3	9.4	8.1	7	5.4	9.6	8.2	7.1	5.4	9.3	8	7	5.4	175
180	5.4	5.3	5.1	4.5	8.2	7.5	6.6	5.2	8.9	7.8	6.8	5.2	9.2	7.9	6.8	5.2	9	7.7	6.8	5.2	180
185	5.1	5.1	4.8	4.4	7.9	7.1	6.3	5	8.5	7.5	6.5	5.1	8.9	7.6	6.6	5.1	8.7	7.5	6.6	5.1	185
190	4.8	4.8	4.6	4.2	7.6	6.8	6.1	4.9	8.1	7.2	6.3	4.9	8.5	7.4	6.4	5	8.4	7.2	6.4	5	190
195	4.5	4.5	4.3	4	7.3	6.6	5.8	4.7	7.8	6.9	6.1	4.8	8.1	7.1	6.2	4.8	8.1	7	6.1	4.8	195
200	4.3	4.3	4.1	3.9	7	6.3	5.6	4.6	7.6	6.6	5.8	4.7	7.8	6.8	6	4.7	7.8	6.7	5.9	4.7	200
205	4.1	4.1	3.9	3.8	6.7	6.1	5.4	4.4	7.3	6.3	5.6	4.5	7.4	6.6	5.8	4.6	7.5	6.5	5.8	4.6	205
210	3.8	3.8	3.8		6.4	5.8	5.2	4.3	7	6.1	5.4	4.4	7.2	6.3	5.6	4.5	7.2	6.3	5.6	4.5	210
215	3.7	3.7			6.1	5.6	5	4.2	6.7	5.9	5.2	4.3	6.9	6.1	5.4	4.3	6.9	6.1	5.4	4.4	215
220					5.8	5.3	4.8	4.1	6.4	5.7	5.1	4.2	6.7	5.8	5.2	4.2	6.6	5.8	5.2	4.2	220
225					5.6	5.1	4.6	4	6.2	5.5	4.9	4.1	6.4	5.6	5	4.1	6.3	5.6	5	4.1	225
230					5.4	4.9	4.5	3.9	5.9	5.3	4.7	4	6.2	5.4	4.8	4	6	5.4	4.8	4	230
235					5.2	4.8	4.3	3.8	5.7	5.1	4.5	3.9	5.9	5.2	4.7	3.9	5.7	5.2	4.6	4	235
240					5	4.6	4.2	3.7	5.4	4.9	4.4	3.8	5.7	5.1	4.5	3.9	5.4	5	4.5	3.9	240
245					4.7	4.4	4.1	3.7	5.2	4.7	4.3	3.8	5.5	4.9	4.4	3.8	5.2	4.9	4.4	3.8	245
250					4.5	4.2	3.9	3.7	5	4.5	4.1	3.7	5.2	4.7	4.2	3.7	4.9	4.7	4.2	3.7	250
255					4.3	4.1	3.8	3.7	4.8	4.4	4	3.6	5	4.5	4.1	3.7	4.6	4.5	4.1	3.7	255
260					4.1	3.9	3.7	3.7	4.6	4.2	3.9	3.6	4.9	4.3	3.9	3.6	4.3	4.3	4	3.6	260
265					3.8	3.8	3.6	3.7	4.4	4.1	3.8	3.6	4.7	4.2	3.8	3.6	4	4.2	3.9	3.6	265
270					3.7	3.7	3.6		4.2	3.9	3.6	3.6	4.5	4.1	3.7	3.5	3.7	4	3.7	3.5	270
275					3.5	3.6	3.5		4.1	3.8	3.6	3.6	4.4	3.9	3.6	3.5	3.4	3.8	3.6	3.5	275
280					3.4	3.5			3.9	3.7	3.5	3.6	4.2	3.8	3.5	3.5	3.1	3.5	3.3	3.5	280
285					2.1				3.8	3.6	3.5		4	3.7	3.4	3.5	2.7	3.1	3.1	3.4	285
290									3.7	3.5	3.5		3.9	3.5	3.4	3.5	2.4	2.8	2.8	3.2	290
295									3.5	3.4	3.4		3.7	3.5	3.4	3.5	2	2.5	2.6	3.1	295
300									2.8	3.4			3.5	3.4	3.4		1.6	2	2.4	2.8	300
305													3.4	3.4	3.4			1.6	2	2.3	305
310													3.2	3.3	3.4					1.9	310
315															3.2						315

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 161



	191 ft + 7.5 ft*				209 ft + 7.5 ft*				226 ft + 7.5 ft*				243 ft + 7.5 ft*			261 ft + 7.5 ft*	
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	0°	
65	18.6																65
70	18.1																70
75	17.5				15.2												75
80	16.9				14.8				12.7								80
85	16.4				14.4				12.4				8.9				85
90	15.8				14				12				8.7			4.3	90
95	15.3				13.6				11.6				8.4			4.1	95
100	14.8	12.7			13.2				11.2				8.1			4	100
105	14.4	12.3			12.8				10.8				7.8			3.8	105
110	13.9	11.9			12.4	10.8			10.5				7.5			3.6	110
115	13.4	11.5			12.1	10.5			10.1	9.3			7.2			3.4	115
120	13	11.1			11.7	10.1			9.7	9.1			6.9	3.2		3.2	120
125	12.5	10.7	9.2		11.4	9.8			9.4	8.9			6.7	6.2		3	125
130	12.1	10.4	9		11	9.5			9.1	8.6			6.4	6.1		2.8	130
135	11.7	10.1	8.7		10.7	9.2	8		8.7	8.4			6.1	5.9		2.6	135
140	11.3	9.7	8.4		10.3	9	7.8		8.4	8.1			5.8	5.7		2.5	140
145	10.9	9.4	8.2		9.9	8.7	7.6		8	7.9	6.9		5.5	5.5		2.3	145
150	10.6	9.1	7.9		9.4	8.5	7.4		7.7	7.6	6.8		5.3	5.3	4.6	2.1	150
155	10.2	8.8	7.7		8.9	8.2	7.1		7.3	7.3	6.6		5	5.1	4.5	2	155
160	9.8	8.5	7.4		8.4	7.9	6.9		6.9	7	6.4		4.7	4.8	4.3	1.8	160
165	9.5	8.3	7.2		7.9	7.7	6.7		6.4	6.7	6.2		4.4	4.6	4.2		165
170	9.1	8	6.9	5.5	7.3	7.4	6.5		5.9	6.5	6		4	4.3	4		170
175	8.7	7.8	6.7	5.3	6.8	7	6.3		5.4	6.1	5.9		3.6	4.1	3.9		175
180	8.3	7.5	6.5	5.2	6.4	6.7	6.1	4.9	4.9	5.8	5.7		3.1	3.8	3.7		180
185	8	7.3	6.3	5	6	6.4	6	4.8	4.4	5.5	5.5	4.5	2.6	3.5	3.5		185
190	7.6	7	6.1	4.9	5.7	5.8	5.8	4.7		5.1	5.3	4.4	2.2	3.2	3.3		190
195	7.2	6.7	5.9	4.7	5.3	5.5	5.6	4.6		4.6	5.2	4.3		2.8	3.1		195
200	6.9	6.3	5.7	4.6	5	5.2	5.5	4.4		4.2	4.9	4.2		2.4	2.9		200
205	6.5	6.1	5.5	4.5	4.7	4.9	5.3	4.3		3.8	4.6	4.2		2	2.6		205
210	6.1	5.8	5.3	4.4	4.3	4.6	5.1	4.2			4.3	4.1		1.6	2.4		210
215	5.8	5.6	5.1	4.3	4	4.3	5	4.1			3.9	4			2.1		215
220	5.4	5.3	5	4.2	3.6	4	4.8	4				3.9			1.8		220
225	5	5.1	4.9	4.1	3.3	3.7	4.4	3.9				3.8					225
230	4.6	4.8	4.7	4	2.9	3.4	3.8	3.8				3.7					230
235	4.3	4.5	4.6	3.9		3	3.4	3.7				3.6					235
240	3.9	4.3	4.4	3.8		2.6	3.1	3.5				3.5					240
245	3.6	4	4.3	3.7		2.2	2.8	3.3				3.1					245
250	3.2	3.7	4.1	3.6		1.8	2.5	3.1				2.7					250
255	2.8	3.4	3.8	3.6				2.9				2.1					255
260	2.4	3.1	3.5	3.6				2.7									260
265	1.9	2.7	3.2	3.5				2.4									265
270		2.2	2.8	3.5				2									270
275		1.7		3.3				1.6									275
280				2.9													280
285				2.5													285
290				2													290

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

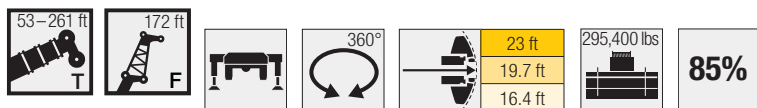
TF 172

	53 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*				174 ft + 7.5 ft*				
	0°	10°	20°	40°	0°	10°	20°	40°	172 ft				0°	10°	20°	40°	0°	10°	20°	40°	
36	34.3																			36	
38	33.4																			38	
40	32.4																			40	
45	30.1																			45	
50	27.9				26.8				25											50	
55	26				25.5				24.1				22.2							55	
60	24.4				24.2				23				21.4				19.4			60	
65	22.7				23				21.9				20.5				18.7			65	
70	21.1	19.9			21.9				20.9				19.7				18.1			70	
75	19.6	18.7			20.9				20				18.8				17.4			75	
80	18.5	17.4			19.9	16.7			19.2				18.1				16.7			80	
85	17.3	16.3			18.9	15.9			18.3	15.4			17.4				16.1			85	
90	16.1	15.2			17.9	15.2			17.5	14.7			16.7	14			15.5			90	
95	15	14.1			17	14.5			16.7	14.1			16	13.5			14.9	12.5		95	
100	14	13	11.7		16.2	13.8			15.9	13.5			15.4	12.9			14.4	12.2		100	
105	13.1	12.2	10.9		15.6	13.3			15.2	12.9			14.7	12.4			13.9	11.7		105	
110	12.3	11.5	10.3		14.9	12.7	10.8		14.6	12.4			14	11.9			13.3	11.3		110	
115	11.6	10.8	9.7		14.2	12.1	10.3		14	11.9	10.1		13.5	11.5			12.8	10.8		115	
120	10.8	10	9.1		13.5	11.5	9.8		13.4	11.4	9.7		13	11	9.3		12.3	10.4		120	
125	10.1	9.4	8.6		12.9	11	9.4		12.9	10.8	9.3		12.5	10.6	9		11.8	10.1	8.6	125	
130	9.3	8.8	8.1		12.2	10.5	9		12.3	10.4	8.9		12	10.1	8.7		11.4	9.7	8.3	130	
135	8.6	8.3	7.7		11.6	10.1	8.6		11.7	10	8.6		11.6	9.7	8.3		11	9.3	8	135	
140	8	7.9	7.2		11.2	9.6	8.2		11.1	9.6	8.2		11.1	9.3	8		10.6	9	7.7	140	
145	7.6	7.4	6.8	5.4	10.7	9.2	7.9		10.7	9.2	7.9		10.6	9	7.7		10.2	8.6	7.4	145	
150	7.2	7	6.4	5.2	10.3	8.7	7.6		10.3	8.8	7.5		10.2	8.6	7.4		9.8	8.3	7.1	150	
155	6.8	6.5	6.1	4.9	9.8	8.4	7.2	5.2	9.9	8.4	7.2		9.7	8.3	7.1		9.5	8	6.9	155	
160	6.3	6.1	5.8	4.7	9.4	8	6.9	5	9.5	8	6.9	5	9.3	8	6.8		9.1	7.7	6.6	160	
165	5.9	5.8	5.4	4.4	8.9	7.7	6.6	4.8	9.1	7.7	6.7	4.8	9	7.6	6.5	4.8	8.7	7.5	6.3	165	
170	5.5	5.5	5.1	4.2	8.5	7.4	6.3	4.7	8.7	7.4	6.4	4.7	8.7	7.3	6.3	4.7	8.3	7.2	6.1	4.6	170
175	5.2	5.2	4.8	4	8	7	6.1	4.5	8.3	7.1	6.1	4.5	8.4	7	6	4.5	8	6.9	5.9	4.4	175
180	4.9	4.9	4.5	3.8	7.6	6.7	5.8	4.3	8	6.8	5.8	4.4	8	6.8	5.8	4.4	7.7	6.6	5.7	4.3	180
185	4.6	4.5	4.3	3.6	7.3	6.4	5.6	4.2	7.6	6.5	5.6	4.2	7.7	6.5	5.5	4.2	7.4	6.4	5.4	4.1	185
190	4.3	4.3	4	3.4	7	6.1	5.3	4	7.2	6.3	5.4	4.1	7.4	6.3	5.3	4.1	7.2	6.1	5.2	4	190
195		4	3.8	3.2	6.7	5.8	5.1	3.9	6.9	6	5.2	4	7.1	6	5.1	3.9	6.9	5.9	5	3.8	195
200		3.8			6.4	5.5	4.8	3.8	6.6	5.7	4.9	3.8	6.7	5.8	4.9	3.8	6.6	5.7	4.8	3.7	200
205		3.5			6.1	5.3	4.6	3.6	6.3	5.4	4.7	3.7	6.4	5.5	4.7	3.6	6.4	5.5	4.6	3.6	205
210					5.7	5	4.4	3.5	6	5.1	4.5	3.5	6.1	5.3	4.5	3.5	6.1	5.3	4.5	3.4	210
215					5.4	4.8	4.2	3.4	5.8	4.9	4.3	3.4	5.8	5	4.4	3.4	5.8	5.1	4.3	3.3	215
220					5.1	4.6	4	3.2	5.5	4.7	4.1	3.3	5.6	4.8	4.2	3.3	5.6	4.9	4.2	3.2	220
225					4.9	4.3	3.8	3.1	5.3	4.5	3.9	3.1	5.4	4.6	4	3.2	5.3	4.6	4	3.1	225
230					4.6	4.1	3.6	3	5	4.3	3.8	3	5.1	4.4	3.8	3.1	5.1	4.4	3.8	3	230
235					4.4	3.9	3.4	2.8	4.7	4.1	3.6	2.9	4.9	4.2	3.6	2.9	4.8	4.2	3.7	2.9	235
240					4.2	3.7	3.3	2.7	4.5	3.9	3.4	2.8	4.7	4.1	3.5	2.8	4.6	4	3.5	2.8	240
245					4	3.5	3.1	2.6	4.3	3.7	3.3	2.6	4.5	3.9	3.4	2.7	4.4	3.9	3.3	2.6	245
250					3.8	3.4	3	2.5	4.1	3.5	3.1	2.6	4.3	3.7	3.2	2.6	4.1	3.7	3.2	2.6	250
255					3.6	3.2	2.9	2.5	3.9	3.4	3	2.5	4	3.5	3.1	2.5	3.9	3.6	3.1	2.5	255
260					3.4	3	2.7	2.5	3.7	3.2	2.9	2.4	3.9	3.4	3	2.4	3.7	3.4	3	2.4	260
265					3.2	2.9	2.6	2.5	3.5	3.1	2.8	2.4	3.7	3.2	2.8	2.4	3.5	3.3	2.9	2.3	265
270					3	2.7	2.5	2.5	3.4	3	2.6	2.4	3.5	3	2.7	2.3	3.2	3.1	2.7	2.2	270
275					2.9	2.6	2.4	2.5	3.2	2.8	2.5	2.4	3.4	2.9	2.6	2.3	3	3	2.6	2.2	275
280					2.7	2.5	2.4		3	2.7	2.4	2.4	3.2	2.8	2.5	2.3	2.8	2.8	2.5	2.2	280
285					2.6	2.4	2.4		2.8	2.5	2.3	2.4	3.1	2.7	2.4	2.3	2.4	2.7	2.3	2.2	285
290					2.4	2.3	2.4		2.7	2.4	2.3	2.4	2.9	2.6	2.3	2.3	2	2.4	2.1	2.2	290
295					2.4	2.3			2.6	2.4	2.3		2.8	2.5	2.2	2.3	1.6	2	1.8	2.2	295
300									2.5	2.3	2.3		2.6	2.3	2.1	2.3		1.6	1.6	2.1	300
305									2.3	2.2	2.2		2.5	2.3	2.1	2.3				2	305
310									2.2	2.2			2.4	2.2	2.1					1.9	310
315													2.3	2.2	2.1						315
320													2.2	2.1	2.1						320
325														2.1							325

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 172



	191 ft + 7.5 ft*				209 ft + 7.5 ft*				172 ft			226 ft + 7.5 ft*			243 ft + 7.5 ft*			259 ft + 7.5 ft*	261 ft + 7.5 ft*	
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	0°	
70	16.1																			70
75	15.6				13.5															75
80	15.1				13.1				9											80
85	14.6				12.7				10.9						4					85
90	14.1				12.3				10.6						7.5					90
95	13.6				11.9				10.2						7.2			2.1	2.7	95
100	13.1				11.5				9.9						7			2	2.6	100
105	12.7	10.8			11.2				9.6						6.7			1.9	2.5	105
110	12.3	10.4			10.8	9.3			9.3						6.5			1.7	2.4	110
115	11.9	10.1			10.5	9			9						6.2				2.3	115
120	11.4	9.7			10.2	8.8			8.7	7.7					6				2.1	120
125	11	9.4			9.9	8.5			8.3	7.5					5.7				2	125
130	10.6	9			9.6	8.2			8	7.3					5.5	4.8			1.9	130
135	10.3	8.7	7.5		9.3	7.9			7.7	7.1					5.2	4.7			1.8	135
140	9.9	8.4	7.2		9	7.7			7.4	6.9					5	4.5			1.6	140
145	9.6	8.2	6.9		8.6	7.4	6.4		7.1	6.6					4.7	4.3				145
150	9.2	7.9	6.7		8.3	7.2	6.2		6.8	6.4	5.5					4.1				150
155	8.9	7.6	6.5		7.9	6.9	6		6.4	6.2	5.4					3.9				155
160	8.6	7.3	6.2		7.4	6.7	5.7		6.1	6	5.2					3.7	2.9			160
165	8.3	7	6		7	6.5	5.6		5.7	5.7	5.1					3.4	2.7			165
170	8	6.8	5.8		6.6	6.2	5.4		5.3	5.5	4.9					3.2	2.5			170
175	7.7	6.6	5.6		6.1	6	5.2		4.9	5.3	4.7					2.9	2.4			175
180	7.3	6.3	5.4	4.1	5.7	5.7	5		4.4	5	4.6					2.7	2.2			180
185	7	6.1	5.2	3.9	5.3	5.5	4.8	3.7	3.9	4.8	4.5					2.4	2.1			185
190	6.6	5.9	5	3.8	5	5.2	4.7	3.6	3.5	4.5	4.3						1.9			190
195	6.3	5.6	4.8	3.7	4.7	4.9	4.5	3.5		4.2	4.2						1.8			195
200	6	5.4	4.6	3.5	4.4	4.5	4.4	3.3			3.8	4					1.7			200
205	5.7	5.1	4.5	3.4	4	4.2	4.2	3.2			3.4	3.8					1.6			205
210	5.3	4.9	4.3	3.3	3.7	3.9	4.1	3.1			2.9	3.6								210
215	5	4.7	4.1	3.2	3.4	3.7	3.9	3			2.3	3.4								215
220	4.7	4.4	3.9	3.1	3.1	3.4	3.5	2.9				3								220
225	4.4	4.2	3.8	3	2.6	3.1	3.3	2.8				2.6								225
230	4.1	4	3.6	2.9	2.2	2.7	3.1	2.7												230
235	3.8	3.8	3.5	2.8	1.8	2.4	2.8	2.6												235
240	3.5	3.6	3.4	2.7		2	2.5	2.5												240
245	3.2	3.4	3.3	2.6		1.7	2.2	2.4												245
250	2.8	3.2	3.1	2.5			1.8	2.2												250
255	2.4	3	3	2.3			1.6	2.1												255
260	2	2.8	2.8	2.2				1.9												260
265		2.3	2.5	2.2				1.6												265
270		1.9	2.2	2.2																270
275			1.8	2.1																275
280				2.1																280
285				2																285
290				1.6																290

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 184

53-226 ft

184 ft

360°

23 ft
19.7 ft
16.4 ft

295,400 lbs

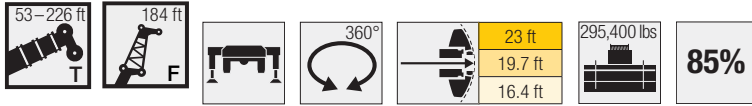
85%

	53 ft + 7.5 ft*				105 ft + 7.5 ft*				122 ft + 7.5 ft*				139 ft + 7.5 ft*				157 ft + 7.5 ft*					
	184 ft																					
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°		
38	30.3																				38	
40	29.5																				40	
45	27.5				26.5																45	
50	25.5				25.2				24												50	
55	23.7				23.8				22.9					21.5							55	
60	22.2				22.5				21.8					20.5				19			60	
65	20.8				21.2				20.6					19.6				18.2			65	
70	19.3				20.2				19.6					18.7				17.5			70	
75	17.9	17			19.2				18.7					17.7				16.7			75	
80	16.8	15.9			18.2	15.3			17.8					17				16			80	
85	15.7	14.9			17.2	14.6			17	14.2				16.3				15.3			85	
90	14.7	13.9			16.2	13.9			16.1	13.5				15.6	13			14.7			90	
95	13.7	13			15.3	13.1			15.2	12.9				14.9	12.4			14.1	11.7		95	
100	12.7	12			14.6	12.4			14.4	12.2				14.1	11.8			13.5	11.3		100	
105	11.8	11.1	10.1		13.9	11.9			13.8	11.6				13.4	11.3			13	10.8		105	
110	11	10.4	9.5		13.2	11.3			13.2	11.1				12.8	10.8			12.4	10.3		110	
115	10.4	9.8	8.9		12.5	10.7	9.2		12.6	10.6	9			12.3	10.3			11.8	9.9		115	
120	9.8	9.2	8.4		11.8	10.1	8.7		12	10.1	8.6			11.8	9.9	8.3		11.3	9.5		120	
125	9.2	8.6	7.9		11.2	9.6	8.3		11.4	9.6	8.2			11.3	9.4	8		10.8	9.1	7.6	125	
130	8.6	8.1	7.4		10.5	9.1	7.9		10.8	9.1	7.8			10.8	9	7.6		10.4	8.7	7.3	130	
135	7.9	7.5	6.9		10	8.7	7.5		10.2	8.7	7.4			10.3	8.5	7.3		10	8.3	7	135	
140	7.3	7.1	6.5		9.6	8.2	7.1		9.7	8.3	7.1			9.7	8.2	6.9		9.6	7.9	6.6	140	
145	6.8	6.7	6.1		9.1	7.8	6.7		9.3	7.9	6.7			9.2	7.8	6.6		9.1	7.6	6.3	145	
150	6.4	6.3	5.7		8.7	7.3	6.4		8.9	7.5	6.4			8.8	7.5	6.3		8.7	7.2	6.1	150	
155	6	5.9	5.4	4.1	8.2	7	6		8.5	7.1	6.1			8.5	7.1	6		8.3	6.9	5.8	155	
160	5.6	5.5	5	3.8	7.8	6.6	5.7	4.1	8.1	6.7	5.8			8.1	6.8	5.7		7.9	6.6	5.5	160	
165	5.2	5.1	4.7	3.5	7.3	6.3	5.4	3.9	7.7	6.4	5.5	3.9		7.8	6.4	5.4		7.5	6.3	5.3	165	
170	4.9	4.7	4.4	3.3	6.8	6	5.1	3.7	7.3	6.1	5.2	3.7		7.4	6.1	5.2	3.7	7.2	6	5	170	
175		4.4	4.1	3	6.4	5.6	4.8	3.5	6.9	5.8	4.9	3.5		7	5.8	4.9	3.4	6.9	5.7	4.8	3.3	175
180		4.1	3.8	2.7	6.1	5.3	4.6	3.3	6.4	5.5	4.6	3.3		6.7	5.5	4.6	3.2	6.7	5.4	4.6	3.1	180
185		3.8	3.3	2.5	5.8	5	4.3	3	6.1	5.2	4.4	3		6.3	5.3	4.4	3	6.4	5.2	4.3	2.8	185
190		3.5	3		5.4	4.7	4.1	2.8	5.7	4.9	4.2	2.8		6	5	4.2	2.7	6.1	5	4.1	2.7	190
195		3.1	2.7		5.1	4.4	3.8	2.5	5.4	4.6	3.9	2.6		5.6	4.8	4	2.5	5.8	4.8	3.9	2.5	195
200		2.7			4.8	4.1	3.5	2.3	5.2	4.4	3.7	2.3		5.3	4.5	3.8	2.3	5.5	4.5	3.7	2.3	200
205					4.5	3.9	3.2	2.1	4.9	4.1	3.5	2.1		5	4.3	3.6	2.1	5.2	4.3	3.5	2.1	205
210					4.2	3.7	3	1.9	4.6	3.9	3.2	2		4.8	4	3.4	2	4.9	4.1	3.3	1.9	210
215					3.9	3.4	2.7	1.7	4.3	3.7	2.9	1.8		4.6	3.8	3.1	1.8	4.6	3.9	3.1	1.8	215
220					3.6	3.1	2.5	1.6	4.1	3.4	2.7	1.6		4.3	3.6	2.9	1.7	4.4	3.7	2.9	1.6	220
225					3.4	2.8	2.2		3.8	3.2	2.4			4.1	3.4	2.6		4.1	3.4	2.7		225
230					3.2	2.5	1.9		3.5	3	2.2			3.9	3.2	2.4		4	3.2	2.5		230
235					3	2.3	1.7		3.3	2.7	2			3.6	3	2.2		3.8	3	2.2		235
240					2.7	2	1.5		3.1	2.4	1.8			3.4	2.8	2		3.6	2.8	2		240
245					2.4	1.8			2.9	2.1	1.6			3.1	2.5	1.8		3.4	2.6	1.8		245
250					2.2	1.6			2.7	1.9				2.9	2.3	1.6		3.2	2.4	1.7		250
255					1.9				2.4	1.8				2.7	2			3	2.2	1.5		255
260					1.6				2.2	1.6				2.5	1.8			2.7	2			260
265									1.9					2.3	1.6			2.5	1.8			265
270									1.7					2.1				2.3	1.6			270
275														1.9				2.1				275
280														1.7				1.9				280
285																		1.7				285
290																		1.5				290

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TF 184

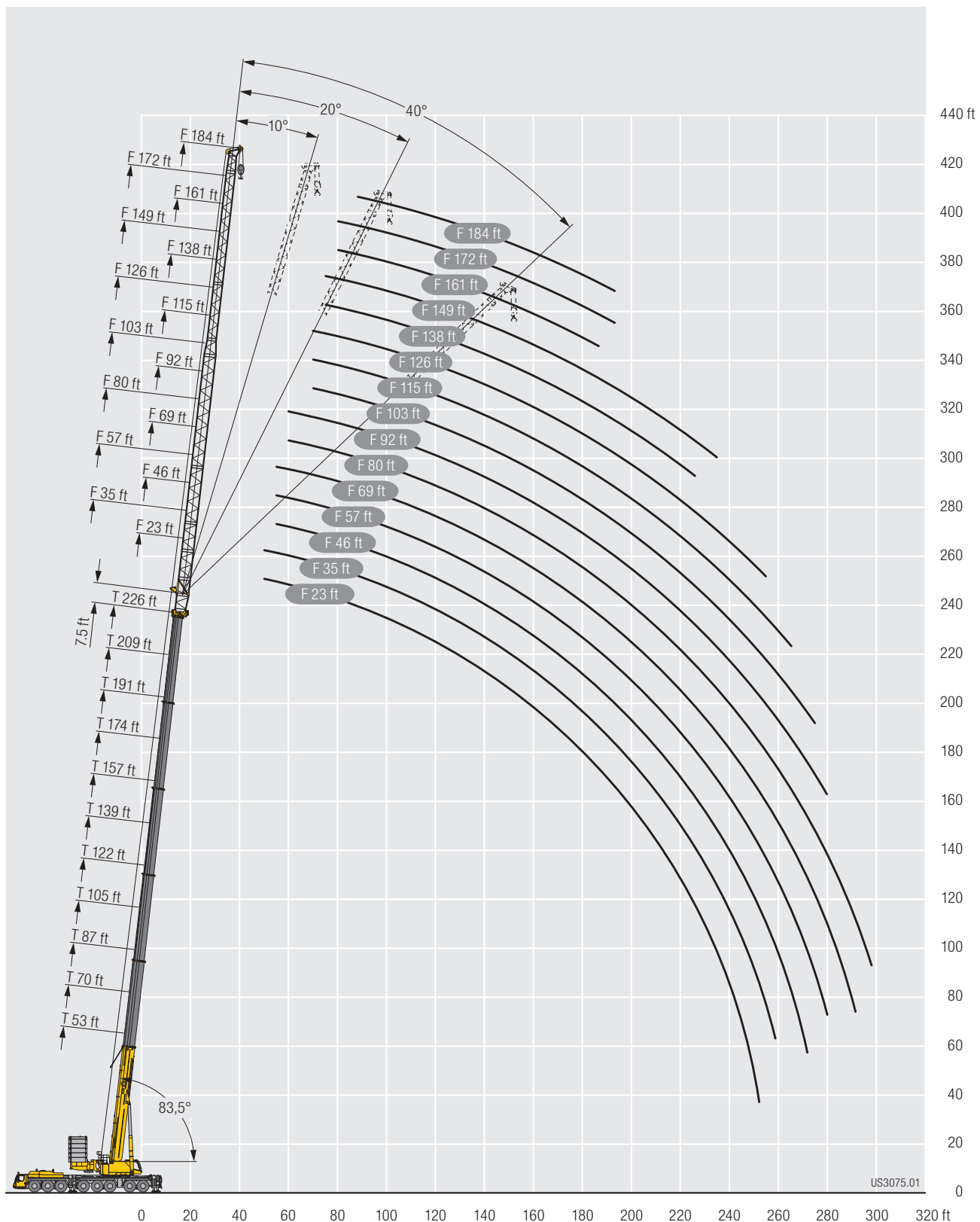


	174 ft + 7.5 ft*				191 ft + 7.5 ft*			209 ft + 7.5 ft*			226 ft + 7.5 ft*			
	0°	10°	20°	40°	0°	10°	20°	0°	10°	20°	0°	10°	20°	
65	16.5													65
70	15.9				14									70
75	15.3				13.6									75
80	14.7				13.1			11.3						80
85	14.1				12.7			10.9			9.1			85
90	13.6				12.2			10.6			8.9			90
95	13.1				11.7			10.2			8.6			95
100	12.6	10.4			11.3			9.9			8.4			100
105	12.1	10.1			10.9			9.5			8.1			105
110	11.6	9.7			10.6	8.8		9.2			7.8			110
115	11.2	9.3			10.2	8.5		8.9			7.6			115
120	10.7	8.9			9.8	8.2		8.6	7.2		7.3			120
125	10.2	8.6			9.4	7.9		8.3	7		7	6.1		125
130	9.8	8.2			9.1	7.6		8	6.7		6.7	5.9		130
135	9.4	7.9	6.6		8.7	7.3		7.7	6.5		6.4	5.7		135
140	9.1	7.6	6.3		8.4	7	5.8	7.4	6.2		6.1	5.5		140
145	8.7	7.2	6		8	6.7	5.6	7.2	6		5.8	5.3		145
150	8.4	6.9	5.8		7.7	6.5	5.4	6.9	5.8	4.8	5.6	5.1		150
155	8	6.6	5.5		7.5	6.2	5.1	6.5	5.6	4.6	5.3	4.9		155
160	7.7	6.3	5.3		7.2	5.9	4.9	6.2	5.3	4.4	5	4.7	3.9	160
165	7.3	6.1	5.1		6.9	5.7	4.7	5.8	5.1	4.3	4.6	4.5	3.7	165
170	7	5.8	4.8		6.4	5.4	4.5	5.4	4.9	4.1	4.3	4.3	3.5	170
175	6.6	5.6	4.6		6.1	5.2	4.3	5	4.7	3.9	3.8	4.1	3.3	175
180	6.3	5.3	4.4	2.8	5.8	5	4.1	4.7	4.5	3.7	3.3	3.8	3.1	180
185	6	5.1	4.2	2.6	5.6	4.8	3.9	4.3	4.3	3.6	2.8	3.6	2.9	185
190	5.8	4.8	4	2.5	5.3	4.6	3.8		4	3.4	2.3	3.3	2.8	190
195	5.6	4.6	3.8	2.3	5	4.4	3.6		3.8	3.2	1.8	3	2.6	195
200	5.3	4.4	3.6	2.1	4.8	4	3.4		3.6	3		2.7	2.5	200
205	5.1	4.2	3.4	2	4.5	3.8	3.2		3.3	2.8		2.2	2.3	205
210	4.8	4	3.2	1.8	4.2	3.7	3		3	2.6		1.8	2.1	210
215	4.6	3.8	3	1.7	4	3.5	2.8			2.4			1.9	215
220	4.4	3.6	2.8	1.6	3.7	3.3	2.5			2.3			1.7	220
225	4.1	3.4	2.6		3.4	3	2.3			2.1				225
230	3.9	3.3	2.4		3.1	2.8	2.1							230
235	3.6	3	2.3		2.8	2.6	1.9							235
240	3.4	2.8	2.1			2.3	1.8							240
245	3.2	2.5	1.8			2.1	1.6							245
250	3	2.3	1.6											250
255	2.8	2.1												255
260	2.5	2												260
265	2.3	1.8												265
270	2	1.6												270
275	1.7													275

* adapter - piece d'adaptateur

Lifting heights Hauteurs de levage

TF



Lifting capacities Forces de levage

TN 46 - 57

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*				
	46 ft										
	83°	75°	67°	83°	75°	67°	83°	75°	67°		
26	261.6									26	
28	261.6			260.2						28	
30	261.6			257.6						30	
32	261.6			251.7				247.3		32	
34	259.4			245.8				243.5		34	
36	255.7			239.8				238		36	
38	250.1			233.6				232.7		38	
40	243.6	258.2		227.1				227.2		40	
45	220.9	232.1		210.1	207.3			212.5		45	
50	192	210.2		189.1	205			196		50	
55		191.4	184.3	155.9	186.9			173.9	180.7	55	
60		174.7	168.6		171.6				165.2	60	
65			154.9		156.6	150.2			151.8	65	
70						138.5			139.7	129.9	70
75						128.2				120.4	75
80										112	80

* adapter - piece d'adaptateur

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			
	57 ft															
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
30	261.6														30	
32	261.5			245.1											32	
34	259.9			240.6											34	
36	257.4			235.1			227.2								36	
38	251			229.6			224.5			191.2					38	
40	244.4			224.2			221.1			191.8					40	
45	227.7			210.7			209.1			187.7			158		45	
50	210	209.2		196.6			196.9			186.8			159.6		50	
55	190.8	190.6		181.5	185.5		183.9			184.4			158.9		55	
60	167.8	174.3		164.1	171		169.4	166		173.3			156.2		60	
65		160.3	154.1	141.2	157.3		151.5	152.6		159.5	146.9		151.5		65	
70		148.1	142.2		145.4	137.8		140.8		140.4	135.5		140.7	129.1	70	
75			131.8		134.6	127.7		130.5			126.7			120.3	75	
80			122.5			119		121.4	113.1		118.6			112.1	80	
85						111.1			105.7		110.8	102		104.8	85	
90									99.2			95.7		98.2	90	
95									94.3			90		82.3	95	
100												84.9		77.6	100	
105														73.4	105	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 69

53-226 ft
69 ft
360°
23 ft
19.7 ft
16.4 ft
295,400 lbs
85%

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
34	233.7																		34
36	235			213.5															36
38	236.1			213.4			189												38
40	235.8			212.7			189.9												40
45	226.1			205.2			192			163.4			134.8						45
50	213.3			194.6			189.3			164.4			135.6			109			50
55	197.6	189.7		184			181.7			161.9			135.8			109.1			55
60	180.8	173.5		172.6	168.7		172			161.4			135.8			109.4			60
65	166.3	159.6		160.5	156		161.5	151.8		158.3			135.8			109.4			65
70	150.4	147.7	141.4	146.8	144.6		149.7	140.1		147.2	134.7		133.1			109.4			70
75	121.8	137	131.1	130.4	134	126.6	136.5	129.9		136.6	124.9		125.1	121.3		109.4			75
80		127.6	122.1		124.8	118		121		126.3	117.5		125.1	113.4		109.4	99.5		80
85		119	114.2		116.6	110.3		113.1	104.9		110.3			106.1		109.2	96		85
90			107.1			103.5		106.1	98.5		103.5			99.5			92.3		90
95						97.4			92.6		97.3	89.3		93.6			88.8		95
100									88.3			84.3		88.3	79.1		84.3		100
105									83.7			79.7			74.8		79.6		105
110												75.5			71			65.8	110
115															67.4			62.5	115
120															64			59.4	120
125																		56.5	125

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
55	82.8			63.4												55
60	81.5			62.6			47.3									60
65	80.2			61.8			46.7			34.3						65
70	78.3			61			46.1			33.9			24.3			70
75	76.3			60.1			45.6			33.5			24			75
80	74.3			59.1			45			33.1			23.8			80
85	72.5			58.2			44.4			32.7			23.5			85
90		62.4		57.1			43.9			32.3			23.2			90
95		59.9			46.2					32			22.9			95
100		57.6			44.5											100
105		55.4			42.7			33.1								105
110		53.6			41.2			31.7			24.5					110
115					39.8			30.4			23.6					115
120			44.2					29.2			22.6			16.9		120
125			42.2								21.7			16.1		125
130			40.6			30.2										130
135						28.9										135
140						27.7					20					140
145										19.1						145
150												12.5				150
155																155
160															6.2	160

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 80

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*					
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°			
36	216.8																		36		
38	217																		38		
40	216.7			199.6															40		
45	213.5			199.1			178.3												45		
50	209.4			192.6			179.8												50		
55	197.1			182.5			177											100.9	55		
60	180.4	173		172.5			170.3											101.4	60		
65	166	159.2		162.4	155.2		161.2											101.4	65		
70	153.6	147.3		151.8	144.4		149.7	139.6										101.1	70		
75	142.8	136.7	130.6	141	133.8		139.1	129.4										100.8	75		
80	126.2	127.3	121.7	129.1	124.7		129.6	120.6										100.5	80		
85	103.3	119	113.8	115.3	116.6	110.1	120.2	112.7										100.2	91.6	85	
90		111.7	106.8		109.5	103.3	105.7	105.8	97.9	111.2	103.5							99.3	88.7	90	
95		105	100.5		103	97.3		99.6	92.2		97.4							98.2	85.7	95	
100			94.9		96.2	91.8		94.8	87.2		91.9	84.1						88.1	82.9	100	
105						86.8			83.5		86.9	79.5						83.3	79.3	105	
110						82.3			79.3			75.4						79	75.2	110	
115									75.3			71.7							71.4	61.9	115
120												68.2								58.9	120
125												64.8								56.1	125
130																				53.6	130
135																				51	135

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
55	75.5															55
60	74.6			57.3												60
65	73.6			56.5			42.4									65
70	72.5			55.8			42						30.5		21.4	70
75	71.2			55.1			41.4						30.1		21.1	75
80	69.7			54.3			40.9						29.8		20.9	80
85	68.1			53.6			40.5						29.4		20.6	85
90	66.5			52.8			40						29		20.4	90
95	65.1	57.4		52			39.5						28.7		20.2	95
100	63.7	55.4		51.2	42.3		39.1						28.4		20	100
105		53.4			40.8								28.1		19.7	105
110		51.6			39.4											110
115		49.9			38.1											115
120		48.4			36.8											120
125					35.6											125
130																130
135																135
140																140
145																145
150																150
155																155
160																160
165																165
170																170

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 92

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*				
	92 ft																			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°		
40	190.1																		40	
45	191.2			176.2			156.1												45	
50	189			178.2			157.7			134.7									50	
55	185.4			176			158.5			135.1			111.9				89.6		55	
60	178.5			169.4			159.1			135.4			112.1				89.7		60	
65	165.3	158.3		161.3			156.8			135.7			112.4				89.8		65	
70	153	146.5		151.2	142.3		148.5			132.5			112.7				90		70	
75	142.2	135.9		140.5	133.1		138.5	128.6		133			113				90.2		75	
80	132.7	126.7		131.1	124		129.1	119.8		126.6	115.4		113.1				90.3		80	
85	124	118.4	113	122.5	116		120.7	112.1		118.3	107.9		111.7	102.3			90.4		85	
90	110.8	111.2	106.1	115	108.9	102.6	113.3	105.2		111	101.4		108.7	98.3			90.3	62.2	90	
95	93.8	104.6	99.8	105.5	102.5	96.5	106.6	99		104.5	96.5		102.8	92.7			90.1	82	95	
100		98.8	94.3	74.8	96.8	91.2	97.9	93.4	86.7	98.6	91.1		98.2	87.5			89.2	79.7	100	
105		93.3	89.2		91.5	86.2		89	82.5		86.1	78.5	91.6	82.8			88.3	77.2	105	
110			84.6		86.1	81.8		84.6	78.6		81.7	74.4		78.5				74.3	110	
115					77.7			80.3	74.7		77.6	70.7		74.5	66.2			70.5	115	
120					73.9				71.1		73.7	67.3		70.9	63			67.1	120	
125									67.7			64.1		67.5	60			63.9	55	125
130												61			57.2			60.8	52.5	130
135												58.2			54.6				50.1	135
140															52.1				47.8	140
145																			45.7	145
150																			43.6	150

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*							
	92 ft																			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°					
60	68																			60
65	67.1			51.3																65
70	66.3			50.7			37.9			27.3										70
75	65.5			50.1			37.5			27.1			18.3							75
80	64.5			49.5			37.1			26.8			18							80
85	63.3			48.9			36.7			26.5			17.8							85
90	62.1			48.3			36.3			26.2			17.5							90
95	60.8			47.7			35.9			25.9			17.3							95
100	59.5	52.7		47			35.5			25.6			17.1							100
105	58.3	51		46.4	38.7		35.1			25.4			16.9							105
110	56.8	49.3		45.8	37.4		34.8			25.1			16.8							110
115		47.7			36.2		34.4	28.1		24.9			16.7							115
120		46.2			35.1			27.1			19		16.7							120
125		44.8			33.9			26.1			19.6									125
130		43.6	31.8		32.9			25.1			18.9						13.5			130
135			36.9		31.9			24.2			18.2						13			135
140			35.5			22		23.3			17.5						12.5			140
145			34.2			24.9					16.8						12			145
150			33			23.9											11.5			150
155			31.9			23														155
160						22.1														160
165																	9.8			165
170																	9.4			170
175																	9			175
180																			4.5	180

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 103



	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
45	171.1																		45
50	170.3			159.4			141.8												50
55	167.5			159.6			142.2			122			101.8						55
60	164.3			158.4			142.4			122.2			101.9			81			60
65	159.9			156.3			142.7			122.5			102			81.3			65
70	151.8	145.1		149			142.1			122.8			102.2			81.6			70
75	141.8	135.5		139.4	130.9		136.1			121.4			102.5			81.9			75
80	132.4	126.3		130.7	123		127.8	118.5		120.2			102.5			82.1			80
85	123.8	118.1		122.3	115.4		120.1	111.3		117.2	106.9		102.4			82			85
90	116.2	110.8	105.7	114.8	108.3		112.8	104.5		110.6	100.6		101.9	95		81.8			90
95	109.3	104.3	99.4	108	101.9	95.8	106.2	98.3		104.2	94.7		100.4	91.1		81.7	57.7		95
100	98.5	98.5	93.9	101.9	96.2	90.5	100.2	92.9		98.3	90.6		96.9	86.9		81.6	75.9		100
105	85.4	93.2	88.9	95.5	91.1	85.6	94.7	87.8	82.2	92.9	85.9		92.4	82.2		81.4	74.2		105
110		88.4	84.3	82.2	86.4	81.2	89.3	83.3	78	88	81.5		87.7	77.9		80.7	72.3		110
115		83.9	80.1		82	77.2		80	74.1	83.3	77.5	70.3	83.1	74		79.9	70.2		115
120			76.2		78	73.5		76.1	70.6		73.7	67		70.5	62.3	77.5	67		120
125			72.5					72.4	67.2		70.1	63.8		67.1	59.4		63.8		125
130						66.6			64		66.8	60.8		63.9	56.6		60.8	52.2	130
135									61.1			58		61	54		58	49.9	135
140									58.3			55.4			51.6		55.4	47.6	140
145											53				49.3			45.5	145
150															47.2			43.5	150
155																		41.6	155
160																		39.8	160

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
65	61.6			44.5												65
70	60.9			46.5			34.4									70
75	60.2			46			34.1			23.8						75
80	59.5			45.5			33.8			23.6			15.2			80
85	58.7			44.9			33.4			23.4			15			85
90	57.8			44.4			33.1			23.2			14.7			90
95	57			43.9			32.7			23			14.5			95
100	55.9			43.4			32.4			22.7			14.3			100
105	54.7	48.5		42.9			32			22.5			14.1			105
110	53.6	47.1		42.4	35.8		31.7			22.2			13.9			110
115	52.6	45.7		41.8	34.6		31.4			22			13.8			115
120	51.3	44.3		41.3	33.4		31.1	25.8		21.8			13.7			120
125		43		40.9	32.3		30.9	24.9		21.6	16.9		13.6			125
130		41.7			31.4			23.9			17.7		13.5			130
135		40.5			30.4			23			17.1			11.9		135
140		39.5	34.5		29.5			22.2			16.5			11.5		140
145		38.6	33.2		28.7			21.4			15.9			11.2		145
150			32		27.9	23		20.7			15.3			10.8		150
155			30.9			22.1		20			14.7			10.5		155
160			29.8			21.2			14.4					10.1		160
165			28.9			20.4			13.8							165
170						19.6			13.2			8.9				170
175						18.9			12.6			8.5				175
180									12			8.2				180
185												7.9			3.7	185
190															3.4	190

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 115

53-226 ft
115 ft
23 ft
19.7 ft
16.4 ft
295,400 lbs
85%

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*				
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°		
	115 ft																			
50	152.8			142.8															50	
55	150.6			142.8			127.8												55	
60	148.1			141.7			127.9			110.1			92.3						60	
65	145.8			140.2			128			110.2			92.4				72.8		65	
70	143			138.6			127.3			110.3			92.5				73		70	
75	138.5	133		136			126.6			110.6			92.6				73.2		75	
80	130.9	124.7		128.1	120.5		124.4			110.3			92.8				73.3		80	
85	123.1	117.3		120.5	113.3		118.1	109.3		108.7			92.7				73.3		85	
90	115.7	110.2		113.8	107.5		111.6	103.2		107.2	98.5		92.3				73.2		90	
95	108.8	103.7	98.8	107.2	101.3		105.6	97.6		103.4	93.2		91.9	86.7			73.1		95	
100	101.9	97.9	93.2	101.2	95.7		99.7	92.3		98.1	88.4		91.1	84			73	52.2	100	
105	93.6	92.6	88.2	95.6	90.5	84.9	94.3	87.2		92.9	83.8		90.1	80.9			73	69	105	
110	83.5	87.8	83.6	90.6	85.8	80.5	89.4	82.7	76	87.7	80.6		86.2	77.1			72.9	67.7	110	
115	72.8	83.3	79.5	81.5	81.5	76.5	84.8	78.6	72.6	83.2	76.6		82.3	73.2			72.8	66.3	115	
120	60	79.3	75.6	70.1	77.5	72.8	78.8	75	69.5	79.1	72.9	65.9	78.5	69.6			72.6	64.7	120	
125		75.3	71.9		73.8	69.3		71.6	66.3	75	69.4	62.8	73.9	66.3			72.1	62.9	125	
130			68.6		70.3	66.1		68.3	63.1		66.1	59.9	66	63.2	55.6		69.6	60	130	
135			65.4			63		65.1	60.2		63.1	57.1		60.2	53			57.2	48.8	135
140						60.2			57.5		60.2	54.5		57.5	50.6			54.6	46.6	140
145									55			52.1		55	48.4			52.2	44.5	145
150									52.6			49.9			46.3			49.9	42.5	150
155												47.8			44.3				40.7	155
160															42.4				38.9	160
165															40.6				37.3	165
170																			35.7	170

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*		
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	
	115 ft														
70	55.3			42.1											70
75	54.7			41.7			30.5								75
80	54.1			41.3			30.3			20.9			12.3		80
85	53.5			40.8			30			20.7			12.1		85
90	52.9			40.3			29.7			20.5			11.8		90
95	52.2			39.9			29.4			20.2			11.6		95
100	51.5			39.4			29			20			11.4		100
105	50.7			39			28.7			19.8			11.2		105
110	49.8	43.9		38.5			28.4			19.6			11		110
115	48.9	42.8		38.1	31.8		28.1			19.4			10.8		115
120	48.1	41.6		37.6	31.4		27.8			19.2			10.6		120
125	47.2	40.5		37.2	30.3		27.5	23		19			10.4		125
130	45.2	39.4		36.8	29.3		27.3	22.2		18.8			10.3		130
135		38.3		36.6	28.4		27.1	21.4		18.6	15.4		10.2		135
140		37.3			27.6			20.6		18.4	14.9		10.1		140
145		36.4	31.7		26.8			19.9			14.3			8.8	145
150		35.5	30.5		26			19.2			13.8			8.6	150
155		34.8	29.5		25.3	20.6		18.5			13.3			8.4	155
160			28.5		24.7	19.8		17.9			12.8			8.3	160
165			27.5			19		17.3	10.5		12.4			8.2	165
170			26.6			18.2					11.9			8.1	170
175			25.9			17.5					11.3			8	175
180						16.9					10.8		7.2		180
185						16.3					10.4		6.9		185
190											10.1		6.6		190
195													6.3		195
200													6		200

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 126

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			
	126 ft																		
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
55	135.1			128.1															55
60	133.1			127.1			115.6			101									60
65	131.1			125.8			114.8			100.9			83.2			65.6			65
70	129.3			124.4			114			100.4			83.5			65.8			70
75	127.3			123.1			113.2			99.9			83.8			65.9			75
80	124.3	121.8		121.7			112.4			99.4			83.9			66.1			80
85	120.8	115.2		118.6	111.6		111.7			99			83.9			66.1			85
90	114.2	108.7		112.2	105.3		109.5	101.2		98.6			83.7			66.1			90
95	108.1	102.9		106.2	99.7		103.7	95.8		98.2	91.9		83.5			66			95
100	102.3	97.4		100.9	94.8		98.5	90.9		96.6	87.2		83.2	79.5		65.9			100
105	96.7	92.1	87.6	95.6	90		93.7	86.5		92.1	82.9		82.8	78.2		65.8			105
110	90.1	87.3	83.1	90.6	85.4	80	89	82.3		87.9	79		82.2	74.5		65.8	63.1		110
115	83.3	82.9	79	86	81.1	76	84.5	78.1		83.5	75.6		81.5	72.7		65.8	62.4		115
120	75.1	78.9	75.1	81.9	77.1	72.3	80.4	74.4	68.9	79.5	72.5		77.5	69.5		65.8	61.4		120
125	66.3	75.2	71.5	74.4	73.4	68.9	76.6	70.7	66.1	75.1	69	62.3	74.5	66.3		65.8	60.2		125
130	57	71.7	68.2	65	70	65.6	71.7	68.1	63	71.6	65.7	59.4	71.4	63.2		65.8	58.9		130
135		68.4	65.1		66.8	62.6	62.1	65.1	60.1	68.2	62.7	56.6	67.8	60.2	52.9	65.6	56.8		135
140		61.4	62.2		63.9	59.9		62.2	57.4		62.7	54.1	62.1	57.6	50.5	63.3	54.2		140
145			59.5		59.7	57.3		59.5	54.9		57.3	51.7		55	48.3		51.8	43.9	145
150			57			54.8		57	52.6		54.9	49.5		52.7	46.2		49.6	42	150
155					52.6				50.4		52.5	47.4		50.4	44.2		47.5	40.2	155
160								48.3			45.4	43.6		48.3	42.4		45.5	38.5	160
165												43.6			40.6			36.9	165
170												41.8			39			35.3	170
175															37.4			33.9	175
180																		32.5	180

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*		
	126 ft														
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	
70	50.6														70
75	50.2			38.1											75
80	49.7			37.8			27.1			16.9					80
85	49.2			37.5			26.9			18			9.9		85
90	48.7			37.1			26.7			17.8			9.7		90
95	48.1			36.7			26.4			17.5			9.5		95
100	47.6			36.2			26.2			17.3			9.2		100
105	47.1			35.9			25.9			17.1			9		105
110	46.5			35.5			25.6			16.9			8.8		110
115	45.8	40.3		35.1			25.3			16.7			8.6		115
120	45	39.4		34.7			25			16.5			8.4		120
125	44.3	38.5		34.3	29		24.8			16.4			8.2		125
130	43.6	37.6		34	28.1		24.6	20.8		16.3			8.1		130
135	42.9	36.6		33.6	27.1		24.3	20.3		16.2			7.9		135
140	41	35.6		33.3	26.2		24.1	19.6		16.2	13.8		7.8		140
145	39.6	34.7		33.1	25.4		24	18.9		16.2	13.4		7.7	6.7	145
150		33.8			24.7		23.8	18.3		16.2	12.9		7.6	6.5	150
155		33	28.5		24			17.7			12.4			6.3	155
160		32.3	27.4		23.4			17.1			12			6.2	160
165		31.7	26.6		22.7	18.2		16.5			11.5			6	165
170			25.7		22.2	17.4		15.9			11.1			5.9	170
175			24.8			16.8		15.4	10.8		10.8			5.7	175
180			24.1			16.1			10.4		10.5			5.6	180
185			23.4			15.5			10			6.3		5.5	185
190			22.9			15			9.7				6.1		190
195						14.5			9.3				5.8		195
200									9				5.5		200
205													5.2		205
210													5		210

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 138

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*				
	138 ft																			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°		
55	121.9																		55	
60	120.5			114.2			104.1												60	
65	118.8			113.2			103.4			90.7									65	
70	117.1			112.3			102.7			90.5			75.2			59.1			70	
75	115.6			111.2			101.9			90			75.4			59.2			75	
80	113.9			110.1			101.3			89.5			75.6			59.4			80	
85	111.4	110.3		108.7			100.6			89.1			75.8			59.5			85	
90	108.4	106.7		106.1	102.9		99.3			88.7			75.9			59.5			90	
95	105.5	101		103.5	97.4		97.7	93.9		88.4			76			59.4			95	
100	100.8	95.8		98.7	92.4		95.9	89.2		88	85		75.7			59.4			100	
105	95.9	91.1		93.9	88		92	84.8		87.7	80.8		75.4	72.4		59.3			105	
110	91.2	86.7	82.5	89.5	84.3		87.8	80.8		85.7	77		75.1	71.8		59.2			110	
115	86.1	82.4	78.3	85.3	80.5	75.4	83.8	77.1		82	73.4		74.7	69.5		59.2	57.2		115	
120	80.5	78.4	74.5	81.1	76.6	71.7	80	73.7		78.5	70.1		74.3	66.4		59.2	56.8		120	
125	74.9	74.7	70.9	77.3	72.9	68.3	76.2	70.3	64.6	75	68.2		73.3	64.9		59.2	56.3		125	
130	68	71.2	67.6	73.6	69.5	65.1	72.7	67	62	71.5	65.3		70.1	62.1		59.2	55.4		130	
135	60.6	67.9	64.5	67	66.4	62.1	69.4	63.9	59.2	68.2	62.3	56.1	67.5	59.4		59.2	54.4		135	
140	52.9	65	61.6	59.4	63.4	59.3	65.5	61.5	56.5	64.7	59.5	53.5	64.5	56.7	49.5	59.2	53.1		140	
145		62.2	59		60.7	56.7	58.1	58.8	54	61.9	56.9	51.1	61.6	54.2	47.3	59.1	51		145	
150		57.1	56.5		58.1	54.3		56.3	51.7	56.3	54.5	48.9	57.4	51.9	45.2	57.4	48.7	41	150	
155			54.2		55.2	52.1		54	49.6		52.2	46.9		49.7	43.3	54.8	46.7	39.2	155	
160			52			49.9		51.7	47.5		50	44.9		47.7	41.5		44.7	37.5	160	
165						47.9					45.6		48	43.1			45.7	39.7	165	
170											43.8			41.4			43.9	38.1	170	
175											42.1							36.6	175	
180																		35.1	180	
185																			185	
190																			190	
195																			195	
																			28	195

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*		
	138 ft														
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	
75	45.7														75
80	45.3			34.1			22								80
85	44.9			33.9			24			15					85
90	44.5			33.6			23.8			14.8			7.2		90
95	44			33.3			23.6			14.5			7		95
100	43.5			32.9			23.4			14.3			6.8		100
105	43.1			32.5			23.2			14.1			6.5		105
110	42.6			32.2			22.9			13.8			6.3		110
115	42.2			31.9			22.7			13.7			6.1		115
120	41.6	36.6		31.5			22.4			13.5			5.9		120
125	41	35.8		31.2			22.2			13.3			5.8		125
130	40.4	35		30.9	26.2		22			13.2			5.6		130
135	39.8	34.2		30.5	25.4		21.8	18.5		13.1			5.4		135
140	39.2	33.4		30.2	24.6		21.6	18		12.9			5.3		140
145	38.6	32.6		29.9	23.8		21.4	17.4		12.8	11.4		5.1		145
150	36.9	31.7		29.6	23		21.2	16.8		12.8	11.2		5	4.1	150
155	35.9	30.9		29.4	22.2		21	16.2		12.8	11		4.9	3.9	155
160		30.2	26		21.6		20.9	15.7		12.8	10.7		4.8	3.8	160
165		29.5	25.2		21			15.1			10.4		4.7	3.6	165
170		28.9	24.3		20.4	16.2		14.6			10			3.4	170
175		28.3	23.5		19.9	15.5		14.1			9.7			3.2	175
180		28	22.7		19.4	14.9		13.6	9.4		9.4			3.1	180
185			22			14.3		13.2	9.1		9.1				185
190			21.3			13.8			8.8		8.8				190
195			20.7			13.2			8.4			4.9			195
200			20.1			12.7			8.1			4.6			200
205						12.2			7.8			4.3			205
210									7.4			4.1			210
215									7.1			3.8			215
220												3.6			220

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 149

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*				
	149 ft																			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°		
60	109.2																		60	
65	107.9			102.5			93.6												65	
70	106.5			101.6			93			82									70	
75	105.2			100.8			92.4			81.7						53.7			75	
80	103.9			99.9			91.8			81.2					68.4			53.8	80	
85	102.6			99.1			91.1			80.8					68.6			53.9	85	
90	101.1	99.3		98.2			90.5			80.4					68.7			54	90	
95	99.6	98		97.3	95.3		90			80					68.8			53.9	95	
100	97.9	94		96.1	91		89.4	86.7		79.7					68.8			53.9	100	
105	94.2	89.4		92.5	86.6		88.9	83.1		79.4	78.1				68.7			53.8	105	
110	89.8	85.2		88.2	82.5		86.1	79.2		79.1	75.9				68.5	66		53.8	110	
115	85.7	81.3	77.2	84.2	78.9		82.5	75.6		78.6	72.4				68.4	65.7		53.7	115	
120	81.6	77.7	73.7	80.6	75.5		79	72.2		76.9	69.1				68.2	64.6		53.6	120	
125	76.9	74.2	70.4	77.2	72.2	67.4	75.6	69.1		74.2	66.2				68.1	62.1		53.6	125	
130	72.1	70.7	67.1	73.6	69	64.5	72.2	66.2	60.8	71.1	63.4				67.9	59.7		53.6	130	
135	67.2	67.5	64	70.3	65.9	61.5	69	63.4	58.8	68.2	61.5				66.2	58.3		53.6	135	
140	61.2	64.5	61.1	67.1	63	58.8	66	60.6	56.3	65.2	59	52.9			63.5	56		53.6	140	
145	55	61.7	58.5	61.4	60.2	56.2	63.1	58.5	53.9	62.3	56.4	50.6			61.3	53.7		53.6	145	
150	48.5	59.1	56	54.9	57.7	53.8	59.6	56.2	51.5	59.3	54	48.4			58.8	51.4	44.6	53.6	150	
155		56.7	53.7	47.5	55.3	51.6	53.4	53.9	49.4	56.8	51.8	46.3			56.3	49.3	42.7	53.5	155	
160		52.7	51.6		53.1	49.5	44.2	51.7	47.4	52.6	49.7	44.4			53.4	47.2	40.9	52.5	160	
165			49.5		50.9	47.5		49.6	45.5		47.6	42.6				45.3	39.2	50.5	42.9	165
170			47.6			45.7		47.7	43.7		45.8	40.9				43.5	37.6		41.2	170
175						43.9			42		44	39.3				41.8	36.1		39.5	175
180						42.2			40.3			37.7				40.2	34.6		38	180
185									38.8			36.3					33.3		36.5	185
190												34.9					32		29.1	190
195																	30.8		27.9	195
200																	29.6		26.8	200
205																			25.8	205

* adapter - piece d'adaptateur

	157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			226 ft + 13 ft*	
	149 ft													
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	
80	41.4			28.9										80
85	41.2			30.8										85
90	40.8			30.6									5.3	90
95	40.5			30.3									5.1	95
100	40.1			30.1									4.9	100
105	39.7			29.8									4.7	105
110	39.3			29.5									4.5	110
115	38.9			29.2									4.3	115
120	38.5			28.9									4.1	120
125	38.1	33.5		28.6									3.9	125
130	37.6	32.8		28.3									3.7	130
135	37.1	32.1		28	23.9								3.5	135
140	36.6	31.4		27.7	23.3								3.4	140
145	36.1	30.7		27.4	22.6								3.2	145
150	35.6	30		27.2	21.9									150
155	35	29.3		26.9	21.1									155
160	33.5	28.6		26.7	20.4									160
165	32.6	27.9	24.1	26.5	19.8									165
170		27.3	23.2	26.4	19.1									170
175		26.7	22.5		18.6	14.5								175
180		26.2	21.7		18.1	14.1								180
185		25.7	21		17.7	13.5								185
190		25.3	20.3		17.2	12.9								190
195			19.6		16.8	12.4								195
200			19.1			11.9								200
205			18.5			11.4								205
210			18.1			11								210
215						10.7								215
220						10.3								220
225														225

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

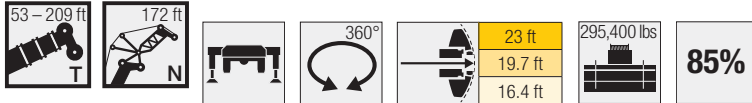
TN 161

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*													
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°												
65	97.9			92.5																										65											
70	96.7			91.8			84					71.9																		70											
75	95.6			91.1			83.5					73.8			61.5															75											
80	94.4			90.3			82.9					73.5			61.6			48.5												80											
85	93.3			89.6			82.4					73.1			61.7			48.5												85											
90	92.3			88.8			81.8					72.7			61.9			48.6												90											
95	91.1	89.4		88.1			81.3					72.4			61.9			48.6											9.6	95											
100	89.9	88.3		87.4	85.6		80.7					72			61.9			48.6											9.4	100											
105	88.6	87.2		86.7	84.2		80.3	79.1				71.7			62			48.5											9.1	105											
110	87.3	83.6		85.6	80.5		79.8	76.6				71.4	70.3		61.9			48.5											8.9	110											
115	84.2	79.8		82.4	76.9		79.3	74.1				71.2	70		61.7	59.8		48.4											8.7	115											
120	80.5	76.3	72.3	78.8	73.5		76.8	70.8				70.9	67.3		61.6	59.6		48.4											8.5	120											
125	77.1	73	69.1	75.5	70.7		73.7	67.7				70.2	64.4		61.5	59.2		48.3	46.8										8.3	125											
130	73.5	69.9	66.2	72.4	67.9	63.3	71.2	64.9				69.1	61.7		61.4	57.8		48.3	46.7										8.2	130											
135	69.4	67	63.5	69.5	65.2	60.7	68.4	62.3				66.6	59.2		61.4	55.4		48.3	46.6										8	135											
140	65.3	64	60.6	66.5	62.5	58.2	65.5	59.8	55			64.1	57.2		61.4	53.6		48.3	46.4										7.8	140											
145	61.1	61.3	57.9	63.6	59.8	55.7	62.4	57.5	52.9			61.6	55.3	49.3	59.7	52.3		48.3	46.2										7.7	145											
150	55.9	58.7	55.5	60.6	57.3	53.3	59.8	55	50.7			59.1	53.2	47.4	57.4	50.3		48.3	45.7										7.6	150											
155	50.5	56.2	53.2	55.6	54.9	51.1	57.3	53.1	48.5			56.9	51	45.4	55.4	48.4	41.7	48.3	45										7.4	6.3	155										
160	45	54	51	50.2	52.7	49	54.2	50.9	46.5			53.9	48.9	43.5	53.4	46.4	39.9	48.3	43.8										7.3	6.1	160										
165	38.5	51.9	49	44.2	50.6	47	49.1	48.9	44.6			51.7	46.9	41.7	51.2	44.5	38.2	48.2	42.1	34.8									7.2	5.9	165										
170		49.1	47.1		48.6	45.1	42.6	47	42.8			48.6	45	40	49.1	42.7	36.7	47.5	40.3	33.3									7.2	5.8	170										
175				45.3	46.7	43.4		45.2	41.2			43.3	38.4	45	41	35.2	46.2	38.7	31.9										23.4	17.2	16.1	11.9	7.2	5.6	175						
180				43.6	44.1	41.7		43.4	39.6			41.6	36.9		39.4	33.8		37.2	30.6											27.9	24.2	20.3	23.3	16.7	16.1	11.5	7.1	5.5	180		
185							40.2					41.8	38.1		40	35.5		37.9	32.4												23.6	19.6		16.1	12.4	11.1		7.1	5.4	185	
190							38.6					36.6			34.1			36.5	31.1												23.2	18.9		15.7	11.9	10.7			5.2	190	
195												35.2			32.8			29.9																					5.1	195	
200															31.6			28.8																				5.1	200		
205															30.4			27.7																				5	205		
210																		26.6																				5	210		
215																																						5	215		
220																																								5	220
225																																								5	225
230																																								5	230
235																																								5	235

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 172

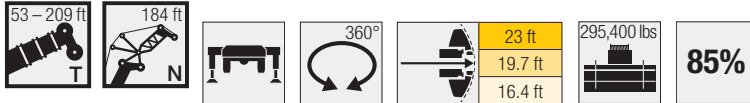


	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*			
	172 ft																														
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°		
70	87.1			82.4																									70		
75	86.1			81.8			75.2			66.5																			75		
80	85.1			81.1			74.7			66.3			55.5		43.8														80		
85	84.1			80.5			74.2			66			55.5		43.8			33.8											85		
90	83.2			79.8			73.7			65.6			55.5		43.9			33.7			24.8								90		
95	82.3			79.2			73.2			65.3			55.5		43.9			33.6			24.7			15.5			7.6	95			
100	81.3	79.9		78.5			72.7			65			55.5		43.9			33.3			24.5			15.3			7.4	100			
105	80.4	79		77.7	76.7		72.2			64.6			55.5		43.8			33.1			24.3			15			7.1	105			
110	79.5	78.1		76.7	76		71.7	71.1		64.3			55.5		43.8			32.8			24.1			14.8			6.9	110			
115	78.6	77.2		75.8	75.3		71.2	70.6		64.1	62.9		55.5		43.7			32.5			23.9			14.6			6.7	115			
120	77.1	74.9		74.8	72.5		70.7	68.8		63.8	62.8		55.4	53.8			32.2			23.7			14.4			6.5	120				
125	74.6	71.6		73.2	69.3		70.1	66.4		63.6	62.6		55.4	54		43.7			31.9		23.4			14.2			6.3	125			
130	71.9	68.6	65	71.2	66.5		68.6	63.6		63.1	60.4		55.3	54		43.6	42.3		31.6		23.2			14			6.1	130			
135	69.3	65.9	62.3	68.6	63.8	59.5	66.9	61		62.2	57.9		54.9	53.8		43.6	42.2		31.3	27.9	23			13.9			5.9	135			
140	66.2	63.2	59.8	65.9	61.4	57.1	64.3	58.6		61.3	55.6		54.4	52.6		43.6	42.1		30.9	27.2	22.8			13.7			5.8	140			
145	62.7	60.8	57.4	63.4	59	54.9	62.1	56.4	51.6	60.3	53.5		53.9	50.5		43.6	42.1		30.6	26.5	22.6	19.5		13.5			5.6	145			
150	59.2	58.3	55	60.9	56.8	52.8	59.8	54.3	49.8	58.2	51.6		53.4	48.6		43.6	42		30.3	25.9	22.3	19		13.4	11.9		5.4	150			
155	55.5	55.9	52.8	58.5	54.5	50.7	57.3	52.3	48	56.2	50.2	44.6	52.6	47.9		43.6	41.9		30	25.3	22.1	18.5		13.3	11.7		5.3	155			
160	51	53.6	50.6	55.9	52.3	48.6	55	50.2	46.1	54	48.4	42.9	51.8	46.2	39.7	43.6	41.4		29.6	24.8	21.9	18		13.2	11.6		5.2	4.1	160		
165	46.4	51.5	48.6	51.6	50.2	46.6	52.8	48.5	44.2	52.1	46.5	41.2	50.8	44.5	38.3	43.6	40.9		29.2	24.3	21.7	17.4		13.1	11.4		5	3.9	165		
170	41.6	49.5	46.7	46.9	48.3	44.8	50.3	46.6	42.4	49.9	44.6	39.6	48.8	42.8	36.7	43.6	39.9	32.9	28.9	23.8	21.5	16.8		13.1	11.2		4.9	3.7	170		
175	36.4	47.6	44.9	41.7	46.4	43	46.1	44.8	40.7	47.5	42.9	38	47	41.1	35.2	43.6	38.4	31.5	28.4	23.3	21.3	16.3		13.1	11		4.9	3.6	175		
180		45.8	43.2	35.3	44.7	41.4	40.7	43.1	39.2	45.3	41.3	36.5	45.2	39.5	33.8	43.1	36.9	30.2	27.3	22.8	19.3	21.2	15.8		13.1	10.7		4.8	3.5	180	
185		40.2	41.6		43	39.8		41.5	37.7	38.6	39.7	35.1	42.1	38	32.4	42.3	35.4	28.9	26.6	22.2	18.7	21.1	15.3		13.1	10.4		4.8	3.3	185	
190			40.1		41.4	38.4		40	36.3		38.2	33.7		36.6	31.2		34.1	27.8	25.9	21.7	18.1	21	14.8	11.2		13.1	10.1		4.7	3.2	190
195			38.7		37			38.5	34.9		36.8	32.4		35.2	30		32.8	26.6		21.3	17.5		14.3	10.8		13.1	9.8		4.7		195
200					35.6				33.6		35.5	31.2		33.9	28.8		31.5	25.6		20.9	16.9		13.9	10.4			9.5			200	
205									32.4			30.1		32.6	27.7		30.3	24.6		20.5	16.3		13.6	10			9.2	5.7		205	
210											29			26.6		29.2	23.6		20.3	15.8		13.2	9.7				8.9	5.5		210	
215											27.9			25.6			22.7			20.3	15.3		12.9	9.3			8.6	5.2		215	
220														24.7			21.8				14.8			9			8.4	4.9		220	
225																	20.9				14.4			8.7				4.7		225	
230																	20.1				14			8.4				4.4		230	
235																					13.7			8.1				4.2		235	
240																							7.9					3.9		240	
245																												3.7		245	
250																												3.4		250	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 184



	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*	
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	
70	79																										70		
75	78.2			74.1			68.2																					75	
80	77.4			73.5			67.7			59.9																		80	
85	76.6			72.9			67.2			59.8			50.3			39.5												85	
90	75.7			72.3			66.8			59.5			50.3			39.5			30.2									90	
95	74.7			71.6			66.3			59.1			50.4			39.5			30.2			21.4			12.8			95	
100	73.8			70.8			65.8			58.8			50.4			39.5			30.1			21.1			12.5		5.1	100	
105	72.8	72		70			65.3			58.5			50.4			39.5			29.8			20.9			12.3		4.8	105	
110	70.7	71.2		68.8	69.1		64.8			58.2			50.4			39.4			29.6			20.7			12		4.6	110	
115	68.6	70.4		67	68.4		63.7	63.9		57.8			50.3			39.4			29.4			20.4			11.8		4.4	115	
120	66.5	69.1		65.2	67.5		62.3	63.5		57.1	56.4		50.1			39.3			29.1			20.2			11.6		4.2	120	
125	64.4	67.2		63.4	66.5		61	62.9		56.4	56.5		49.7	48.4		39.3			28.8			20			11.4		4	125	
130	62.3	65.2		61.6	64.5		59.7	61.4		55.7	56.4		49.3	48.6		39.3			28.6			19.8			11.2		3.8	130	
135	60.1	63.2	61	59.6	62.1		58.1	59.4		54.9	56		49	48.7		39.2	37.9		28.3			19.6			11		3.6	135	
140	58	61.1	58.6	57.7	59.7		56.5	57		53.8	54		48.5	48.7		39.2	37.8		28	25.1		19.5			10.8		3.5	140	
145	55.9	59.1	56.3	55.8	57.4	53.3	54.8	54.8		52.5	51.9		47.6	48.4		39.2	37.7		27.8	24.5		19.3			10.6		3.3	145	
150	54	57.1	54.2	53.9	55.2	51.3	53.1	52.8	47.8	51.2	50		46.7	47.1		39.2	37.6		27.5	23.9		19.2	17.2		10.5		3.1	150	
155	52.1	55.2	52.2	52.1	53.3	49.4	51.5	50.8	46.5	49.9	48.1		45.8	45.4		39.2	37.5		27.2	23.3		19.1	16.9		10.3	9		155	
160	50.3	53.2	50.1	50.4	51.4	47.6	50	49	44.7	48.6	46.6	42	44.9	43.7		39.2	37.5		26.9	22.7		19	16.4		10.2	8.8		160	
165	48.2	51	48.1	48.6	49.5	45.8	48.4	47.3	43.1	47.3	45.7	40.4	43.9	43.1		39	37.3		26.6	22.2		19	15.9		10.1	8.6		165	
170	45.2	49	46.2	46.6	47.5	44	46.8	45.5	41.5	46	44.2	39	42.9	41.6	35.5	38.5	37.1		26.4	21.8		18.9	15.4		10	8.5		170	
175	42	47.2	44.4	44.3	45.7	42.2	45.3	44	39.9	44.7	42.5	37.5	42	40.2	34.2	38.1	36.8	20.7	26	21.3		18.8	15		10	8.3		175	
180	38.6	45.4	42.7	42	44	40.6	43.8	42.4	38.3	43.3	40.9	36	41	38.7	32.9	37.6	36	29.2	25.7	20.9		18.7	14.5		9.9	8.2		180	
185	34.2	43.7	41.1	38.5	42.3	39.1	41.8	40.8	36.8	42.2	39.3	34.6	40.1	37.2	31.5	37.1	34.6	28	25.4	20.4	17.2	18.6	14		9.9	8.1		185	
190	27.7	42.1	39.6	33.9	40.8	37.6	37.7	39.2	35.4	40.4	37.9	33.3	39.2	35.8	30.3	36.6	33.3	26.8	24.4	20	16.7	18.5	13.5		9.9	8		190	
195		37.8	38.2		39.3	36.2		37.8	34.1	36.4	36.5	32	37.7	34.5	29.1	36.1	32	25.7	23.7	19.5	16.1	18.5	13.1		9.9	7.9		195	
200			36.8		37.9	34.9		36.4	32.8		35.1	30.8		33.2	27.9	35.4	30.8	24.7	23.4	19.1	15.6	18.4	12.7	9.4		9.9	7.8		200
205			35.5			33.6		35.1	31.6		33.8	29.6		32	26.9		29.6	23.7		18.7	15	18.4	12.2	9.1		9.9	7.7		205
210					32.4			30.5		32.6	28.5			30.8	25.8		28.5	22.7		18.3	14.5		11.8	8.7		7.6	4.5		210
215								29.4			27.5			29.6	24.8		27.4	21.8		17.9	14		11.5	8.4		7.5	4.3		215
220								28.3			26.4				23.9		26.4	20.9		17.7	13.5		11.2	8.1		7.4	4		220
225											25.5				23			20.1		17.5	13.1		11	7.8		7.2	3.8		225
230															22.1			19.3				10.8	7.5		7	3.5		230	
235																		18.5				10.8	7.2		6.8	3.2		235	
240																		17.8				7						240	
245																						6.7						245	
250																						6.4						250	
255																						6.2						255	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 195

↙ ↘	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*			209 ft + 13 ft*	↙ ↘
	195 ft									83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°				
	83°	75°	67°	83°	75°	67°	83°	75°	67°																	83°	75°	67°	
75	68.5																										75		
80	67			65.3			62.1																				80		
85	65.4			63.9			61.1			55.1			46.3														85		
90	63.7			62.6			60.1			54.9			46.3			36.3											90		
95	62			61.3			59			54.6			46.4			36.4			27.8			19.5					95		
100	60.3			59.8			57.9			54.1			46.4			36.3			27.8			19.2			11.1		100		
105	58.5			58.4			56.9			53.6			46.5			36.3			27.7			19			10.8		3.8	105	
110	56.8	59.5		56.9			55.8			52.9			46.5			36.3			27.5			18.8			10.6		3.6	110	
115	55	57.8		55.3	58.1		54.7			52.1			46.4			36.2			27.4			18.6			10.4		3.4	115	
120	53.3	56.3		53.6	56.9		53.3	55.5		51.3			46.4			36.2			27.1			18.3			10.2		3.2	120	
125	51.5	54.8		51.9	55.6		51.8	54.6		50.4	51.9		46.2			36.2			26.9			18.2			10			125	
130	49.8	53		50.2	54.2		50.2	53.7		49.4	51.2		45.8			36.1			26.7			18			9.8			130	
135	48.1	51.1		48.5	52.5		48.7	52.7		48.4	50.6		45.5	44.6		36.1			26.4			17.8			9.6			135	
140	46.5	49.4	52.1	46.9	50.7		47.2	51.3		47.4	49.9		45.1	44.7		36.1	34.8		26.2			17.6			9.4			140	
145	44.9	47.7	50.5	45.3	48.9		45.7	49.8		46.2	49.2		44.7	44.8		36	34.7		25.9	23.4		17.5			9.3			145	
150	43.3	46	48.7	43.8	47.3	50.4	44.2	48.2		44.8	48.4		43.9	44.8		36	34.7		25.7	22.9		17.3			9.1			150	
155	41.8	44.4	47	42.3	45.7	48.5	42.8	46.7		43.4	47.6		42.8	44.4		36	34.6		25.5	22.4		17.2	15.4		9			155	
160	40.5	43	45.4	40.9	44.1	46.8	41.4	45.1	44.1	42	46.3		41.7	43.1		36	34.6		25.2	21.9		17.1	15.2		8.8	7.5		160	
165	39.3	41.6	43.9	39.7	42.6	45.3	40.2	43.6	42.9	40.7	44.6	39.9	40.6	41.6		36	34.6		25	21.3		17	15		8.7	7.3		165	
170	38.1	40.2	42.5	38.5	41.3	43.7	39	42.3	41.5	39.5	43.1	38.5	39.5	40.1		36	34.6		24.8	20.8		17	14.8		8.6	7.1		170	
175	36.9	38.9	41.1	37.2	39.9	42.2	37.9	41	40.1	38.4	41.7	37.1	38.5	39.7	33.8	35.9	34.5		24.6	20.3		17	14.4		8.5	7		175	
180	35.9	37.8	39.8	36.2	38.7	40.6	36.7	39.8	38.7	37.2	40.5	35.9	37.5	38.4	32.6	35.5	34.3		24.3	19.9		16.9	14		8.4	6.8		180	
185	34.9	36.7	38.6	35.2	37.6	39	35.8	38.7	37.2	36.2	39.3	34.6	36.4	37.1	31.5	35.2	34.1	27.8	24	19.5		16.9	13.5		8.3	6.7		185	
190	33.9	35.6	37.4	34.2	36.5	37.6	34.8	37.6	35.8	35.2	37.9	33.3	35.5	35.8	30.3	34.8	33.2	26.8	23.8	19.1		16.9	13.1		8.3	6.6		190	
195	31.1	34.7	36.4	32.9	35.5	36.2	33.9	36.6	34.5	34.3	36.5	32	34.6	34.5	29.1	34.3	32	25.7	23.5	18.8	15.8	16.9	12.7		8.3	6.5		195	
200	27.1	33.8	35.4	31.1	34.5	34.9	32.6	35.5	33.2	33.4	35.2	30.8	33.7	33.2	27.9	33.6	30.8	24.6	22.4	18.4	15.3	16.9	12.2		8.3	6.4		200	
205		32.8	34.4		33.6	33.6	29.9	34.6	32	32.6	33.9	29.6	32.9	32	26.9	32.8	29.6	23.6	21.4	18	14.8	16.9	11.9	8.8	8.3	6.3		205	
210			33.5		32.8	32.4		33.7	30.8		32.9	29.7		32.1	30.8	25.8	32.2	28.5	22.7	20.8	17.6	14.3	16.9	11.5	8.5	8.3	6.2		210
215			32.8			31.3		32.9	29.7		31.5	27.5		29.7	24.9		27.5	21.8		17.3	13.8	16.8	11.1	8.2	8.3	6.2	3.6		215
220						30.2		28.7			30.4	26.5		28.7	23.9		26.5	20.9		17	13.4		10.8	7.9		6.2	3.5		220
225						29.2		27.7			25.5			27.6	23		25.5	20.1		16.7	13		10.5	7.6		6.1	3.4		225
230								26.7			24.6				22.2		24.6	19.3		16.5	12.5		10.3	7.3		6.1	3.2		230
235											23.7				21.3			18.5		16.3	12.2		10.1	7		6.1			235
240															20.5			17.8			11.8		9.9	6.8		6.1			240
245															19.8			17.1			11.4			6.5		6.1			245
250																		16.4			11.1			6.3					250
255																					10.9			6					255
260																								5.8					260
265																								5.5					265

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 207



295,400 lbs

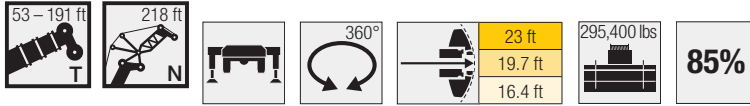
85%

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*		
	207 ft									83°		75°		67°		83°		75°		67°		83°		75°			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	
80	63.3			61.2																						80	
85	62			60.3			56.3			50																	85
90	60.8			59.2			55.9			49.8			41.8														90
95	59.5			58.1			55.3			49.7			41.8			32.7			24.9								95
100	58.3			57.1			54.6			49.4			41.9			32.7			24.7			16.3					100
105	57.1			56			53.8			49.1			41.9			32.6			24.5			16			8.4		105
110	55.9			55			53			48.8			42			32.6			24.2			15.8			8.2		110
115	54.7	56.1		53.9			52.1			48.5			41.9			32.5			24			15.6			8		115
120	53.4	55		52.8	54.3		51.3			48.2			41.8			32.5			23.8			15.3			7.8		120
125	52.1	53.9		51.7	53.4		50.4	51.8		47.9			41.8			32.5			23.6			15.1			7.5		125
130	50.7	52.9		50.5	52.5		49.5	51		47.4	46.7		41.7			32.4			23.4			14.9			7.3		130
135	49.4	51.7		49.3	51.6		48.6	50.3		46.8	46.8		41.6			32.4			23.2			14.7			7.2		135
140	48	50.5		48.2	50.6		47.8	49.5		46.2	46.7		41.5	40.1		32.4			23			14.5			7		140
145	46.6	49.2		46.9	49.5		47	48.8		45.6	46.5		41.4	40.2		32.3	30		22.9			14.4			6.8		145
150	45.2	47.7	50	45.5	48.5		45.9	48.1		45	46.1		41.3	40.3		32.3	29.9		22.8	20.7		14.2			6.6		150
155	43.8	46.3	48.6	44.2	47.2	47	44.7	47.3		44	45.6		41.2	40.3		32.3	29.8		22.6	20.4		14.1			6.5		155
160	42.3	44.7	47	42.9	45.7	45.9	43.4	46.3		43	44.7		40.7	40.3		32.3	29.7		22.5	20		13.9	12.3		6.3		160
165	41	43.3	45.6	41.6	44.3	44.3	42.1	45.1	41.1	42	43.2		40.2	40		32.3	29.7		22.4	19.6		13.8	12.1		6.1	4.9	165
170	39.9	42	44.2	40.5	43	42.8	40.8	44	39.8	40.9	41.7		39.8	38.7		32.3	29.7		22.2	19.1		13.7	12		6	4.8	170
175	38.8	40.8	42.9	39.4	41.9	41.3	39.8	42.6	38.7	39.9	40.3	35.8	39.3	37.4		32.3	29.7		22.1	18.6		13.6	11.9		5.9	4.6	175
180	37.7	39.6	41.6	38.3	40.8	39.9	38.7	41.2	37.4	38.9	39	34.5	38.6	36.1	31.2	32.3	29.7		21.9	18.1		13.6	11.7		5.8	4.4	180
185	36.5	38.5	40.3	37.2	39.6	38.6	37.7	39.9	36.2	37.9	38.1	33.3	37.7	35.7	30.1	32.3	29.7		21.8	17.8		13.5	11.6		5.6	4.3	185
190	35.1	37.5	38.8	36.2	38.5	37.1	36.6	38.6	35	36.9	36.9	32.2	36.8	34.6	29.1	32.3	29.7	25.5	21.6	17.4		13.5	11.5		5.5	4.1	190
195	33.7	36.5	37.4	35.1	37.5	35.8	35.7	37.5	33.7	35.9	35.7	31.1	35.9	33.5	28.1	32.3	29.7	24.6	21.3	17.1		13.5	11.3		5.5	4	195
200	32.3	35.5	36	34.2	36.6	34.4	34.8	36.1	32.4	35.1	34.4	29.9	35.1	32.4	27	32.3	29.7	23.7	21.1	16.7	14	13.5	11		5.4	3.8	200
205	29.2	34.6	34.8	32.6	35.6	33.2	34	34.8	31.2	34.2	33.1	28.8	34.3	31.2	26	32.3	28.8	22.8	20.8	16.4	13.5	13.5	10.7		5.4	3.7	205
210	25.7	33.8	33.5	29.4	34.7	32	31.9	33.5	30	33.4	32	27.7	33.6	30.1	25	32.2	27.8	21.8	19.9	16	13.1	13.5	10.4	7.5	5.4	3.6	210
215		31.8	32.4		33.7	30.9	28.7	32.4	29	31.3	30.8	26.7	32.5	29	24	31.8	26.7	20.9	19	15.7	12.6	13.5	10.1	7.3	5.4	3.5	215
220			31.2		32.5	29.8		31.2	27.9		29.7	25.7	30.8	27.9	23.1	31	25.7	20.1	18.6	15.4	12.1	13.5	9.8	7	5.4	3.4	220
225			30.2		30.1	28.7		30.1	26.9		28.7	24.7		26.9	22.2		24.8	19.2	17.2	15.1	11.7	13.5	9.5	6.7	5.4	3.4	225
230						27.7		29.1	26		27.7	23.8		26	21.3		23.8	18.4		14.8	11.3		9.2	6.4	5.4	3.3	230
235						26.8			25		26.7	23		25	20.5		23	17.7		14.5	11		9	6.1		3.3	235
240									24.1			22.1			19.7		22.1	17		14.3	10.6		8.8	5.9		3.2	240
245												21.3			19			16.3		14.2	10.4		8.6	5.6		3.2	245
250											20.5				18.2			15.6				10.1	8.4	5.4		3.2	250
255															17.5			15				9.8		5.1		3.2	255
260																		14.3				9.6		4.9			260
265																						9.4		4.6			265
270																						9.2		4.4			270
275																								4.1			275

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 218



	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*	
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	
85	55.2			53.7																					85	
90	54.2			52.8																					90	
95	53.2			52																					95	
100	52.2			51.1																					100	
105	51.2			50.3																					105	
110	50.2			49.4																					110	
115	49.3			48.6																					115	
120	48.3	49.4		47.8																					120	
125	47.5	48.5		46.9	48																				125	
130	46.6	47.7		46.2	47.3																				130	
135	45.8	46.8		45.5	46.5																				135	
140	45	46		44.7	45.8																				140	
145	44.2	45.3		44	45.1																				145	
150	43.5	44.5		43.3	44.5																				150	
155	42.8	43.8	44.5	42.7	43.8																				155	
160	42.1	43.2	43.9	42.1	43.1																				160	
165	41.4	42.5	43.2	41.5	42.6	43																			165	
170	40.7	41.9	42.6	40.9	42	41.5																			170	
175	39.9	41.2	42	40.3	41.4	40.3																			175	
180	38.9	40.3	40.8	39.4	40.8	38.9																			180	
185	38	39.4	39.5	38.5	40.1	37.6																			185	
190	37	38.6	38.2	37.6	39.3	36.4																			190	
195	35.8	37.7	36.9	36.6	38.3	35.2																			195	
200	33.9	36.8	35.5	35.4	37.1	34																			200	
205	31.8	36	34.2	34	35.7	32.7																			205	
210	29.7	35	33	32.6	34.5	31.5																			210	
215	27	33.8	31.9	30.8	33.3	30.4																			215	
220	23.8	32.5	30.8	27.6	32.1	29.3																			220	
225		30.4	29.7	23.8	31	28.3																			225	
230		26.7	28.7		29.9	27.3																			230	
235			27.7		28.6	26.3																			235	
240					25.4	26.8																			240	
245					24.5																				245	
250						22.9																			250	
255						22.1																			255	
260							21.2																		260	
265																									265	
270																									270	
275																									275	
280																									280	

* adapter - piece d'adapteur

Lifting capacities Forces de levage

TN 230



	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*			191 ft + 13 ft*	
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	
85	51.7																								85	
90	50.9			49.3			45.6																		90	
95	50.1			48.7			45.4			40.1			33.8												95	
100	49.3			48			45.1			40			33.8			26.2									100	
105	48.5			47.3			44.7			39.9			33.8			25.9			18.1			10.1			105	
110	47.7			46.6			44.4			39.7			33.8			25.7			17.9			10.7		4	110	
115	46.9			45.9			44			39.5			33.8			25.4			17.6			10.4		3.8	115	
120	46.2			45.2			43.5			39.3			33.8			25.1			17.4			10.2		3.6	120	
125	45.4	46.1		44.6			42.9			39.1			33.7			24.8			17.1			10		3.4	125	
130	44.7	45.4		43.9	44.6		42.4			38.9			33.6			24.6			16.9			9.8		3.2	130	
135	44	44.8		43.3	44.1		41.9	42.2		38.7			33.5			24.3			16.6			9.5			135	
140	43.4	44.1		42.7	43.5		41.4	41.9		38.5	37.3		33.4			24.1			16.4			9.3			140	
145	42.7	43.4		42.1	42.9		40.9	41.6		38.2	37.3		33.3			23.9			16.2			9.1			145	
150	42.1	42.8		41.6	42.4		40.5	41.1		38	37.3		33.1	30.9		23.7			16			8.9			150	
155	41.4	42.3		41	41.8		40	40.7		37.8	37.3		33	30.7		23.5	21.7		15.8			8.7			155	
160	40.9	41.7	42.1	40.5	41.3		39.5	40.2		37.6	37.3		32.8	30.6		23.3	21.5		15.7	14.1		8.5			160	
165	40.4	41.1	41.6	40	40.8		39.1	39.8		37.3	37.1		32.6	30.4		23.1	21.3		15.5	13.9		8.4			165	
170	39.9	40.6	41.1	39.5	40.3	40.1	38.7	39.4		37	37		32.5	30.3		22.9	21.2		15.3	13.8		8.2	6.9		170	
175	39.4	40.1	40.6	39.1	39.9	38.7	38.3	39	16.5	36.8	36.9		32.5	30.2		22.8	21		15.2	13.6		8.1	6.8		175	
180	38.9	39.6	40	38.6	39.4	37.4	38	38.4	34.6	36.5	36.5		32.5	30.1		22.8	20.9		15	13.4		7.9	6.6		180	
185	38.4	39.2	38.7	38.1	39	36.3	37.6	37.6	33.4	36.3	35.3	30.3	32.5	30		22.7	20.8		14.9	13.3		7.8	6.4		185	
190	37.8	38.8	37.4	37.7	38.2	35.1	37.2	36.3	32.3	36	34.1	29.7	32.5	30		22.6	20.7		14.8	13.1		7.6	6.2		190	
195	37.3	38.4	36.2	37.2	37	34	36.8	35.2	31.5	35.8	33	28.9	32.5	30	24.7	22.6	20.6		14.7	13		7.5	6.1		195	
200	36.7	37.5	35	36.7	36	32.9	36.4	34	30.6	35.6	32	27.9	32.5	29.5	24.6	22.5	20.5		14.6	12.8		7.4	5.9		200	
205	35.6	36.3	33.8	36.2	34.9	31.8	36	33	29.6	35.4	31	27	32.5	28.5	24.1	22.5	20.5	18.1	14.6	12.7		7.3	5.8		205	
210	33.2	35	32.6	34.8	33.7	30.7	35.6	32	28.6	35	30.4	26.1	32.5	27.6	23.3	22.5	20.4	18	14.6	12.5		7.3	5.7		210	
215	30.6	33.8	31.5	32.6	32.5	29.6	33.9	31.1	27.7	33.9	29.5	25.3	32.4	27.3	22.5	22.5	20.4	17.9	14.6	12.4	10.3	7.3	5.6		215	
220	27.9	32.6	30.3	30.5	31.4	28.6	32.1	30.1	26.6	32.8	28.5	24.4	31.6	26.6	21.7	22.5	20.4	17.9	14.6	12.2	10.2	7.3	5.5		220	
225	25.2	31.5	29.3	28.2	30.3	27.5	30.3	29	25.7	31.4	27.5	23.4	30.5	25.7	20.9	22.5	20.4	17.9	14.6	12	9.9	7.3	5.3	3.4	225	
230	22.3	30.4	28.3	25.4	29.3	26.5	28.1	28	24.7	30.2	26.5	22.5	29.5	24.8	20	22.5	20.4	17.7	14.5	11.8	9.6	7.3	5.3		230	
235	18	28.5	27.3	22.3	28.3	25.6	25.2	27	23.8	27.9	25.6	21.7	28.4	23.8	19.2	22.5	20.4	16.9	14.3	11.7	9.3	7.3	5.3		235	
240		25.2	26.3		27.3	24.7		26.1	23	24.6	24.6	20.9	27.3	23	18.4	22.5	20.4	16.2	14.3	11.5	9	7.3	5.2		240	
245			25.4		26.4	23.8		25.2	22.1		23.8	20.1		22.1	17.7	22.5	20.4	15.5	13.9	11.3	8.7	7.3	5.2		245	
250			24.6		23	24.3		24.3	21.3		22.9	19.3		21.3	17		19.9	14.8		11.1	8.5	7.3	5.2		250	
255					22.2				20.6		22.1	18.6		20.6	16.3		19.1	14.2		10.9	8.2		5.2		255	
260									19.8			17.9		19.8	15.7		18.4	13.6		10.8	7.9		5.2		260	
265									19.1			17.2			15		17.7	13		10.6	7.7		5.2		265	
270												16.6			14.4			12.4		10.6	7.4		5.2		270	
275															13.8			11.8			7.2		5.2		275	
280															13.3			11.3			7				280	
285																		10.9			6.8				285	
290																					6.6				290	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 241

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*						
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°					
90	39.8																							90				
95	38.6			38.8			38.8																	95				
100	37.4			37.6			37.7			36.1			31											100				
105	36.3			36.5			36.6			35.4			31			23.8								105				
110	35.2			35.4			35.5			34.7			31			23.5						16.1		9.1	110			
115	34.1			34.3			34.4			33.9			30.8			23.3						15.8		8.9	115			
120	33.1			33.3			33.3			33			30.6			23						15.6		8.7	120			
125	32.1			32.3			32.4			32.2			30.3			22.8						15.4		8.5	125			
130	31.1	32.7		31.3			31.5			31.3			29.9			22.6						15.1		8.3	130			
135	30.1	31.8		30.4	32.4		30.6			30.5			29.4			22.4						14.9		8	135			
140	29.4	30.8		29.5	31.4		29.6	31.9		29.6			28.9			22.3						14.7		7.9	140			
145	28.6	30		28.8	30.6		28.9	31.1		28.8			28.4			22.1						14.5		7.7	145			
150	27.9	29.1		28.1	29.7		28.2	30.2		28.1	30.5		27.8			21.9						14.3		7.5	150			
155	27.1	28.4		27.3	28.9		27.5	29.4		27.5	29.7		27.2	28.6		21.8						14.2		7.3	155			
160	26.4	27.6		26.6	28.2		26.8	28.6		26.8	29		26.6	28.3		21.7	19.6					14		7.1	160			
165	25.8	26.9		25.9	27.5		26.1	27.9		26.2	28.2		26	27.9		21.6	19.5					13.9	12.2	7	165			
170	25.2	26.3	27.4	25.4	26.8		25.5	27.2		25.5	27.5		25.4	27.4		21.5	19.4					13.8	12.1		6.8	170		
175	24.7	25.7	26.7	24.8	26.1	27.5	24.9	26.5		25	26.9		24.9	26.9		21.4	19.2					13.6	11.9		6.6	5.3	175	
180	24.1	25.1	26.1	24.3	25.6	26.8	24.4	25.9		24.4	26.2		24.4	26.4		21.3	19.1					13.5	11.8		6.5	5.2	180	
185	23.6	24.5	25.5	23.8	25	26.2	23.9	25.3	26.9	24	25.6		23.9	25.8		21.3	19.1					13.4	11.6		6.3	5	185	
190	23.1	24	24.9	23.2	24.4	25.6	23.4	24.8	26.2	23.5	25.1		23.4	25.2		21.3	19					13.3	11.5		6.2	4.8	190	
195	22.7	23.6	24.4	22.8	23.9	25	22.9	24.3	25.6	23	24.6	26.2	23	24.7		21.3	18.9					13.3	11.4		6.1	4.7	195	
200	22.3	23.1	23.9	22.4	23.4	24.5	22.5	23.7	25.1	22.5	24	25.6	22.5	24.2	22.7	21.3	18.9					13.2	11.3		6	4.5	200	
205	22	22.7	23.4	22.1	23	24	22.1	23.3	24.5	22.2	23.5	25.1	22.1	23.8	22.8	21.3	18.9					13.1	11.2		5.9	4.4	205	
210	21.6	22.2	23	21.7	22.5	23.5	21.8	22.9	24	21.8	23.1	24.5	21.8	23.3	22.7	21.3	18.9	16.2				13.1	11.1		5.8	4.2	210	
215	21.2	21.9	22.5	21.3	22.1	23.1	21.4	22.4	23.5	21.5	22.7	24	21.5	22.8	21.9	21.2	18.9	16.2				13.1	11.1		5.7	4.1	215	
220	21	21.5	22.2	21	21.8	22.6	21	22	23.1	21.1	22.3	23.4	21.1	22.5	21.1	21.1	18.9	16.2				13.1	11	8.7	5.7	4	220	
225	20.7	21.2	21.8	20.7	21.4	22.2	20.8	21.7	22.7	20.8	21.9	23	20.8	22.1	20.4	21	18.9	16.2				13.1	11	8.6	5.7	3.9	225	
230	20.4	20.9	21.4	20.5	21.1	21.9	20.5	21.3	22.3	20.6	21.5	22.3	20.5	21.7	19.7	20.8	18.9	16.2				13.1	10.8	8.5	5.7	3.8	230	
235	20	20.7	21.1	20.3	20.8	21.5	20.3	21	21.9	20.3	21.2	21.5	20.3	21.3	19	20.7	18.9	16.2				13.1	10.5	8.4	5.7	3.7	235	
240	19.2	20.4	20.9	20.1	20.6	21.2	20.1	20.7	21.5	20.1	20.9	20.6	20.1	21	18.2	20.5	18.9	15.9				13	10.5	8.3	5.7	3.7	240	
245	17.3	20.2	20.6	20	20.4	20.9	20	20.5	21.2	19.9	20.6	19.9	19.9	20.8	17.5	20.3	18.9	15.2				12.7	10.4	8.1	5.7	3.6	245	
250		20.2	20.4		20.2	20.6	19.4	20.3	20.9	19.8	20.4	19.1	19.8	20.5	16.8	20	18.9	14.6				12.7	10.3	7.9	5.7	3.6	250	
255		19.5	20.3		20.1	20.4		20.1	20.3	20.2	18.4	19.7	20.2	16.1	20	18.8	13.9	12.5				12.5	10.2	7.7	5.7	3.6	255	
260			20.2		20.3			20	19.6		20	17.7		19.7	15.4		18.2	13.3				11.4	10	7.5	5.7	3.6	260	
265					20.1			20	18.9		19.9	17		19	14.8		17.5	12.7					9.9	7.2		3.6	265	
270					19.8				18.2			16.4		18.3	14.2		16.9	12.2					9.7	7		3.6	270	
275									17.6			15.8			13.6		16.2	11.6					9.6	6.8		3.6	275	
280												15.1			13.1			11.2					9.5	6.6		3.6	280	
285												14.6			12.5			10.7						6.3			3.6	285
290														12				10.3						6.1			290	
295																		9.9						5.9			295	
300																								5.7			300	
305																								5.6			305	

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

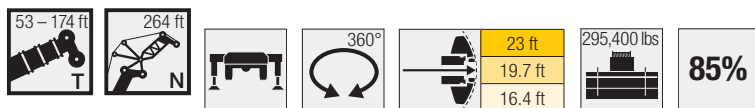
TN 253

	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*	
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	
95	38.2			38.2																			95
100	37.1			37.2			36.3																100
105	36.1			36.2			35.6			32.8			27.9										105
110	35.1			35.3			34.8			32.6			27.9			20.3			13.3				110
115	34.2			34.3			34			32.2			27.8			20			13.1			6.6	115
120	33.2			33.4			33.2			31.6			27.7			19.8			12.9			6.4	120
125	32.3			32.4			32.4			31.1			27.5			19.5			12.6			6.2	125
130	31.5			31.6			31.5			30.6			27.4			19.3			12.4			6	130
135	30.6	32.1		30.7			30.8			30			27.2			19.1			12.2			5.8	135
140	29.7	31.1		29.9	31.6		30			29.4			27			18.8			11.9			5.6	140
145	29	30.3		29.1	30.8		29.2	31.1		28.9			26.8			18.6			11.7			5.4	145
150	28.3	29.5		28.4	30		28.5	30.4		28.3			26.6			18.4			11.5			5.2	150
155	27.7	28.8		27.8	29.3		27.9	29.6		27.7	29.1		26.4			18.2			11.3			5	155
160	27	28.1		27.1	28.5		27.2	28.9		27.1	28.6		26	24.3		18.1			11.2			4.7	160
165	26.3	27.4		26.5	27.8		26.6	28.2		26.5	28.1		25.7	24.2		17.9	16.2		11			4.6	165
170	25.7	26.8		25.9	27.2		26	27.6		26	27.6		25.3	24		17.8	16		10.8	9.4		4.4	170
175	25.2	26.2	27.2	25.3	26.6		25.4	27		25.4	27.1		25	23.9		17.6	15.9		10.7	9.2		4.2	175
180	24.7	25.7	26.6	24.8	26		24.9	26.4		24.8	26.6		24.6	23.8		17.5	15.7		10.5	9.1		4.1	180
185	24.3	25.1	26	24.4	25.5	26.6	24.4	25.8		24.4	26		24.3	23.7		17.3	15.5		10.3	8.9		3.9	185
190	23.8	24.6	25.5	23.9	25	26.1	24	25.3	26.6	24	25.5		24	23.7		17.3	15.4		10.2	8.7		3.7	190
195	23.3	24.1	25	23.4	24.5	25.5	23.5	24.8	26.1	23.6	25		23.7	23.6		17.2	15.3		10.1	8.6		3.6	195
200	22.9	23.6	24.5	23	24	25	23.1	24.3	25.5	23.1	24.5	25.4	23.4	23.5		17.2	15.2		10	8.4		3.5	200
205	22.5	23.3	24	22.6	23.5	24.5	22.6	23.8	25	22.7	24.1	24.5	23.1	23.4		17.2	15.1		9.9	8.3		3.3	205
210	22.2	22.9	23.6	22.3	23.1	24	22.3	23.4	24.6	22.3	23.6	23.7	22.7	23.3	20.7	17.1	15.1		9.8	8.1		3.2	210
215	21.9	22.5	23.2	21.9	22.8	23.6	22	23	24.1	22	23.2	23.3	22.4	23.2	20.3	17.1	15	12.8	9.7	8			215
220	21.5	22.1	22.8	21.6	22.4	23.2	21.7	22.6	23.6	21.7	22.8	22.7	22.1	23	19.6	17.1	15	12.7	9.7	7.9			220
225	21.2	21.8	22.4	21.3	22	22.8	21.3	22.2	23.2	21.4	22.4	21.9	21.8	22.8	18.9	17.1	14.9	12.6	9.7	7.8	6		225
230	21	21.5	22.1	21	21.7	22.4	21	21.9	22.8	21.1	22.1	21.2	21.5	22.6	18.6	17.1	14.9	12.6	9.7	7.7	5.9		230
235	20.8	21.2	21.7	20.8	21.4	22.1	20.8	21.6	22.4	20.8	21.7	20.5	21.2	22.3	18.5	17.1	14.9	12.5	9.7	7.7	5.7		235
240	20.6	20.9	21.4	20.6	21.1	21.8	20.6	21.3	21.9	20.6	21.4	19.8	21	21.8	17.9	17.1	14.9	12.5	9.7	7.6	5.5		240
245	19.9	20.7	21.2	20.4	20.9	21.5	20.4	21	21.1	20.4	21.2	19	20.8	21.3	17.2	17.1	14.9	12.5	9.7	7.6	5.4		245
250	18.2	20.6	20.9	19.6	20.7	21.2	20.1	20.8	20.3	20.2	20.9	18.3	20.6	20.9	16.5	17.1	14.9	12.5	9.7	7.6	5.3		250
255	16.1	20.4	20.7	18.3	20.5	20.9	19.5	20.6	19.6	19.9	20.7	17.6	20.4	20.1	15.8	17.1	14.9	12.5	9.7	7.6	5.3		255
260		19.6	20.5		20.3	20.5	18.5	20.4	18.8	19.6	20.4	16.9	20.2	19.4	15.1	17.1	14.9	12.5	9.7	7.6	5.2		260
265		18.4	20.4		20.2	19.8		20.2	18.1	18.2	19.7	16.2	20.1	18.6	14.5	17.1	14.9	11.9	9.7	7.6	5.2		265
270			20.3		19.6	19.1		20.1	17.5		19	15.6		17.9	13.9		14.9	11.4	9.3	7.6	5.2		270
275			19.9			18.4		19.6	16.8		18.3	15		17.3	13.3		14.9	11		7.5	5.2		275
280					17.7				16.2		17.7	14.4		16.6	12.7		14.8	10.6		7.4	5.1		280
285									15.6			13.8		16	12.2		14.3	10.2		7.4	5.1		285
290												13.2			11.6		13.7	9.8		7.4	5		290
295												12.7			11.2			9.4			4.8		295
300															10.8			9			4.6		300
305																		8.6			4.4		305
310																		8.3			4.2		310
315																					4.1		315

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 264

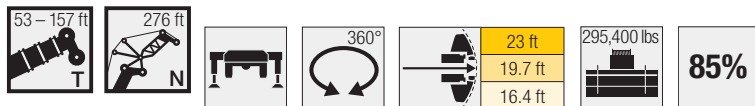


	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			174 ft + 13 ft*	
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	
100	34.2			33.6																		100	
105	33.3			32.9			31.6			29.1												105	
110	32.5			32.2			31			28.8			24.6			17.2						110	
115	31.7			31.4			30.4			28.5			24.4			16.9			10.6			115	
120	30.8			30.7			29.9			28.1			24.1			16.7			10.4			4.4	
125	30			30			29.3			27.6			23.8			16.4			10.1			4.2	
130	29.3			29.3			28.7			27.2			23.5			16.2			9.9			4	
135	28.6			28.6			28.2			26.8			23.3			15.9			9.7			3.8	
140	27.9	29		28			27.6			26.3			23			15.7			9.4			3.5	
145	27.2	28.3		27.3	28.6		27.1			25.9			22.8			15.5			9.2			3.3	
150	26.6	27.7		26.6	28		26.6	27.5		25.5			22.6			15.3			9			3.1	
155	26	27		26.1	27.4		26	27		25.1			22.4			15			8.8				
160	25.5	26.4		25.6	26.8		25.5	26.6		24.7	25.5		22.1			14.8			8.6				
165	25	25.8		25	26.2		25.1	26.1		24.3	25.1		22	20.2		14.6			8.4				
170	24.4	25.3		24.5	25.6		24.6	25.6		23.9	24.7		21.8	20.1		14.4	13		8.2				
175	23.9	24.8		24	25.1		24.1	25.2		23.5	24.4		21.7	19.9		14.2	12.8		8	6.8			
180	23.5	24.3	25.1	23.5	24.6		23.6	24.7		23.2	24		21.5	19.7		14.1	12.6		7.8	6.6			
185	23.1	23.8	24.6	23.1	24.1		23.1	24.3		22.8	23.7		21.3	19.5		13.9	12.4		7.6	6.4			
190	22.7	23.4	24.1	22.7	23.7	24.6	22.8	23.8		22.4	23.3		21.2	19.4		13.7	12.2		7.4	6.2			
195	22.3	23	23.7	22.4	23.3	24.1	22.4	23.4		22.2	23		21	19.3		13.6	12.1		7.3	6			
200	21.9	22.6	23.2	22	22.9	23.7	22	23	23.8	21.9	22.6		20.8	19.2		13.5	11.9		7.1	5.8			
205	21.5	22.2	22.9	21.6	22.4	23.3	21.7	22.7	23.5	21.6	22.3	22.9	20.6	19.1		13.4	11.8		7	5.7			
210	21.3	21.9	22.5	21.3	22	22.9	21.3	22.3	23.1	21.3	22	22.6	20.5	19		13.3	11.6		6.9	5.5			
215	21	21.5	22.1	21	21.7	22.5	21	21.9	22.8	20.9	21.7	21.9	20.3	19	16.6	13.2	11.6		6.8	5.4			
220	20.7	21.2	21.8	20.8	21.4	22.1	20.8	21.6	22.4	20.7	21.4	21.2	20.1	18.9	16.4	13.1	11.5	9.5	6.6	5.2			
225	20.5	20.9	21.5	20.5	21.1	21.8	20.5	21.3	22.1	20.5	21.2	20.4	19.9	18.9	16.4	13.1	11.4	9.4	6.5	5.1			
230	20.2	20.6	21.1	20.2	20.8	21.5	20.3	21	21.7	20.2	20.9	19.7	19.8	18.9	16.4	13.1	11.3	9.3	6.5	5			
235	20	20.4	20.9	20	20.5	21.2	20	20.7	21.4	20	20.7	19.1	19.6	18.9	16.4	13.1	11.2	9.2	6.5	4.9	3.4		
240	19.8	20.2	20.6	19.8	20.3	20.9	19.8	20.4	20.9	19.8	20.5	18.6	19.4	18.9	16.1	13.1	11.2	9.1	6.4	4.7	3.2		
245	19.6	20	20.4	19.7	20.1	20.6	19.6	20.2	20.4	19.6	20.2	18.6	19.2	18.9	15.6	13.1	11.2	9	6.4	4.6			
250	19.4	19.8	20.1	19.5	19.9	20.4	19.5	20	19.8	19.4	20	18.3	19.1	18.9	15	13.1	11.2	9	6.4	4.6			
255	18.9	19.7	20	19.4	19.7	20.1	19.4	19.8	19	19.3	19.8	17.6	19	18.9	14.5	13.1	11.2	8.9	6.4	4.6			
260	17	19.6	19.8	18.6	19.6	19.9	19.1	19.6	18.3	19.2	19.6	16.9	18.9	18.3	14.5	13.1	11.2	8.9	6.4	4.5			
265	14.8	19.4	19.6	17	19.5	19.3	18.3	19.5	17.6	18.9	19.2	16.2	18.8	17.6	14	13.1	11.2	8.9	6.4	4.5			
270		18.6	19.5	14.8	19.4	18.6	17	19.4	17	18.1	19	15.5	18.7	16.9	13.4	13.1	11.2	8.9	6.4	4.5			
275		17.1	19.3		18.9	17.9		19.1	16.3	17.4	18.3	14.9	18.4	16.8	12.8	13.1	11.2	8.9	6.4	4.5			
280			18.7		18	17.3		18.5	15.7		17.6	14.3		16.2	12.2	13.1	11.2	8.9	6.4	4.5			
285			18		16.6	17.8		15.1	16.9		13.7	15.6	11.7		11.2	8.9		4.5					
290					16			14.5	16.3		13.1	15	11.2		11.2	8.9		4.5					
295								13.9	13.9		12.6	14.4	10.8		11.2	8.9		4.5					
300								13.4			12.1		10.4		11.2	8.6		4.5					
305											11.5		10		8.3		4.5						
310													9.6		7.9								
315															7.6								
320															7.2								

* adapter - piece d'adaptateur

Lifting capacities Forces de levage

TN 276

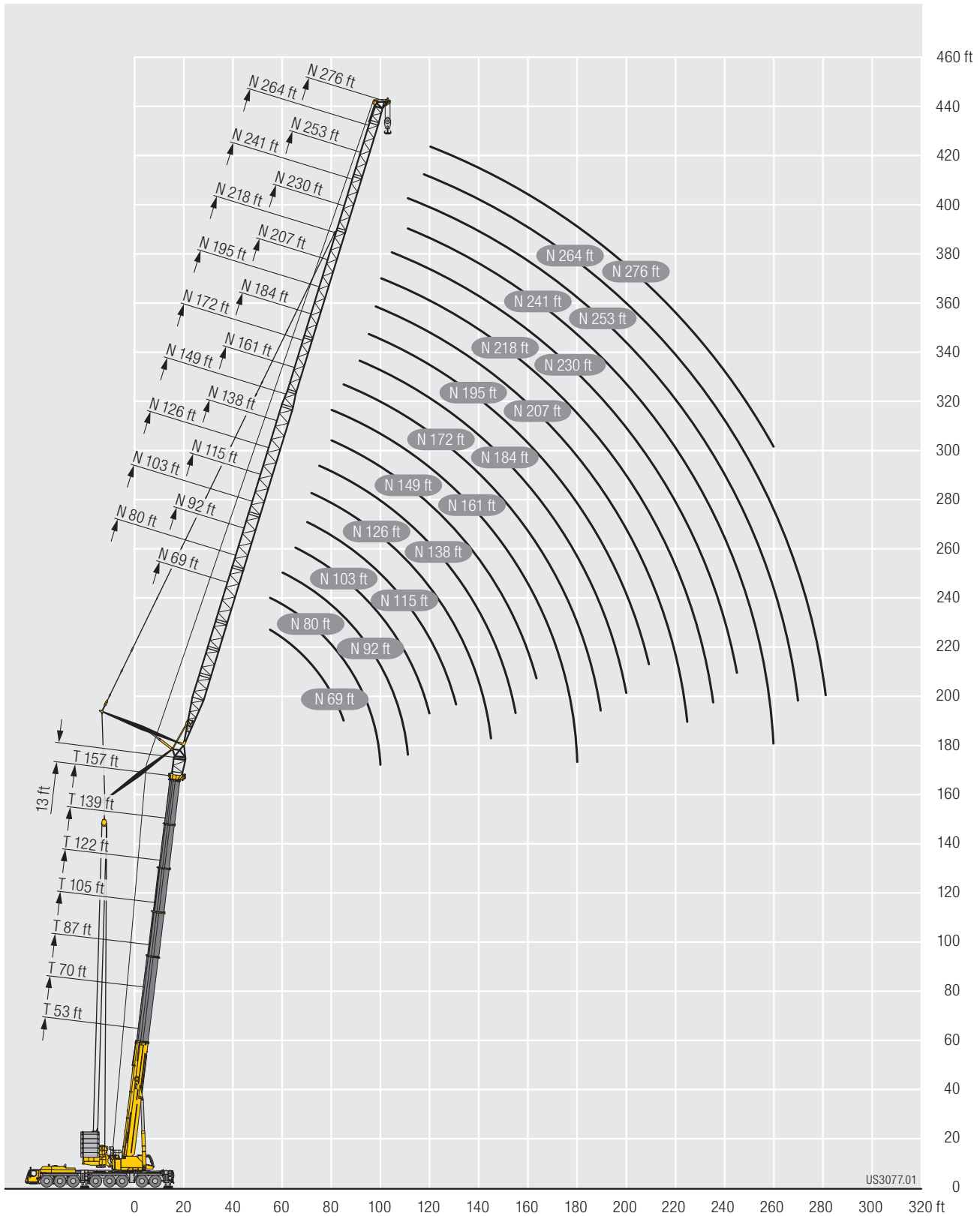


	53 ft + 13 ft*			70 ft + 13 ft*			87 ft + 13 ft*			105 ft + 13 ft*			122 ft + 13 ft*			139 ft + 13 ft*			157 ft + 13 ft*			
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°		
100	32.1																				100	
105	31.5			30.8			29.5															105
110	30.9			30.2			29			26.1			21.2									110
115	30.2			29.6			28.5			26.1			21			14.2						115
120	29.6			29			28			25.9			20.7			13.9				8		120
125	28.9			28.5			27.5			25.7			20.4			13.6				7.7		125
130	28.3			27.9			27			25.4			20.1			13.4				7.5		130
135	27.7			27.3			26.5			25.1			19.8			13.1				7.3		135
140	27.2			26.8			26.1			24.7			19.5			12.8				7		140
145	26.6	27.3		26.3			25.6			24.4			19.2			12.6				6.8		145
150	26	26.8		25.8	26.5		25.2			24.1			19			12.3				6.6		150
155	25.5	26.2		25.3	26.1		24.7	25.5		23.7			18.7			12.1				6.4		155
160	25.1	25.7		24.8	25.6		24.3	25.1		23.4			18.5			11.9				6.2		160
165	24.6	25.2		24.4	25.1		23.9	24.7		23	22.3		18.2			11.6				5.9		165
170	24.2	24.8		24	24.7		23.5	24.3		22.7	22.1		18	16.6		11.4				5.7		170
175	23.7	24.3		23.6	24.3		23.2	23.9		22.4	21.9		17.8	16.4		11.2	10			5.5		175
180	23.2	23.9		23.2	23.9		22.8	23.5		22.1	21.7		17.6	16.2		11	9.8			5.3	4.2	180
185	22.8	23.5		22.8	23.5		22.4	23.2		21.8	21.5		17.3	15.9		10.8	9.5			5.1	4	185
190	22.5	23.1	23.6	22.4	23.1		22	22.8		21.5	21.3		17.1	15.7		10.6	9.4			4.9	3.8	190
195	22.1	22.7	23.2	22.1	22.7	23.2	21.7	22.5		21.2	21.1		16.9	15.5		10.4	9.2			4.7	3.7	195
200	21.8	22.4	22.8	21.7	22.4	22.9	21.5	22.1		21	20.9		16.7	15.4		10.2	9			4.5	3.5	200
205	21.5	22	22.5	21.4	22	22.6	21.2	21.8	22.3	20.8	20.8		16.6	15.2		10.1	8.8			4.4	3.3	205
210	21.1	21.7	22.1	21.1	21.7	22.2	20.9	21.5	22	20.5	20.6	18.6	16.5	15		9.9	8.6			4.2	3.1	210
215	20.8	21.4	21.8	20.8	21.4	21.9	20.6	21.2	21.7	20.3	20.5	18.4	16.4	14.9		9.8	8.5			4		215
220	20.6	21.1	21.5	20.5	21.1	21.6	20.3	21	21.4	20	20.4	18.3	16.2	14.8	12.9	9.6	8.3			3.9		220
225	20.3	20.8	21.2	20.3	20.8	21.3	20.1	20.7	21.2	19.8	20.3	18.2	16.1	14.6	12.7	9.5	8.2			3.7		225
230	20.1	20.6	20.9	20.1	20.6	21	19.9	20.4	20.8	19.6	20.1	18.1	16.1	14.5	12.6	9.3	8.1	6.4		3.6		230
235	19.9	20.3	20.7	19.9	20.3	20.8	19.7	20.2	20.4	19.5	20	18.1	16.1	14.4	12.4	9.3	7.9	6.3		3.5		235
240	19.7	20.1	20.4	19.7	20.1	20.5	19.5	20	19.7	19.3	19.8	17.9	16.1	14.3	12.4	9.3	7.8	6.2	3.4			240
245	19.3	19.9	20.2	19.5	19.9	20.3	19.3	19.8	19.1	19.1	19.6	17.3	16.1	14.3	12.3	9.2	7.7	6	3.3			245
250	18.7	19.7	20	19.2	19.7	20	19.1	19.6	18.7	18.9	19.4	16.7	16.1	14.3	12.2	9.2	7.6	5.9	3.2			250
255	18.1	19.5	19.8	18.9	19.5	19.8	19.1	19.4	18.6	18.8	19.2	16.1	16.1	14.3	12.1	9.2	7.5	5.8	3.2			255
260	17.5	19.4	19.6	18.6	19.4	19.3	19	19.3	18	18.7	19.1	15.5	16.1	14.3	12.1	9.2	7.4	5.7	3.1			260
265	16.9	19.2	19.5	18.4	19.2	18.5	18.9	19.1	17.3	18.7	18.6	14.9	16.1	14.3	12.1	9.2	7.4	5.6				265
270	15.1	19.1	19.3	17.7	19.1	17.8	18.7	18.9	16.6	18.6	17.9	14.2	16.1	14.3	11.7	9.2	7.3	5.5				270
275	13.2	19	18.7	15.6	19.1	17.2	17.6	18.7	16	18.3	17.3	14.1	16.1	14.3	11.3	9.2	7.3	5.5				275
280	10.6	18	18	13.4	18.8	16.5	16.1	18.1	15.4	17.2	16.6	13.6	16.1	14.3	10.8	9.2	7.3	5.5				280
285		15.6	17.3		18.2	15.9	13.7	17.5	14.7	15.9	16.2	13	16.1	14.3	10.5	9.2	7.3	5.4				285
290			16.7		16.6	15.3		16.8	14.2		15.7	12.4	15.3	13.7	10.5	9.2	7.3	5.4				290
295			16.1		14.1	14.7		16.2	13.6		15	11.9		13.1	10.2		7.3	5.4				295
300						14.2			13		14.4	11.4		12.6	9.8		7.3	5.4				300
305						13.6			12.5			11		12.5	9.5		7.3	5.4				305
310									11.9			10.6			9.1		7.3	5.4				310
315												10.2			8.7			5.4				315
320															8.4			5.4				320
325															8			5.4				325
330																		5.4				330

* adapter - piece d'adaptateur

Lifting heights Hauteurs de levage

TN



Equipment Equipment

Crane carrier

Frame	Self-manufactured, torsion-resistant box-type design of high-tensile fine grained structural steel.
Outriggers	4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display.
Engine	8-cylinder Diesel, make Liebherr, watercooled, output 505 kW (687 h.p.), max. torque 2331 lbs-ft. Exhaust emissions acc. to 97/68/EG, EPA/CARB, ECE-R.96. Fuel reservoir: 225 gallons.
Transmission	Automatic transmission system with torque converter and interarder, make ZF, 12 forward speeds and 2 reverse speeds, transfer case with transfer differential.
Axles	Low maintenance crane chassis axles, all 8 axles steered. Axles 1, 2, 4 and 5 are planetary axles. Axles 2 and 3 with transversal differential locks, axles 2 and 4 with longitudinal differential locks.
Suspension	All axles are mounted on hydropneumatic suspension – “Niveaumatik suspension” and are lockable hydraulically.
Tyres	16 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, interarder in gearbox. Hand brake: Spring-loaded, acting on all wheels of axles 3 to 7.
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	Two self-centering control levers (joy-sticks). Pedal switches for telescoping. Infinitely variable crane motions through displacement control of the hydraulic pumps. Additional working speed control by variation of the Diesel engine speed.
Hoist gear	Axial piston variable displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake. Actuation by closed regulated oil circuit.
Luffing gear	2 differential rams with pilot-controlled brake valve.
Slewing gear	2 axial piston constant motors, planetary gear, spring loaded multiple disk brake. Actuation by closed regulated oil circuit.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tilttable approx. 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses.
Telescopic boom	1 base section and 6 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 53 ft to 279 ft.
Counterweight	295,400 lbs Hydraulic ballasting device.

Operating modes

K	Swing away jib 23 ft – 115 ft Adjustment 0°; 10°; 20°; 40°
F	Fixed lattice jib 23 ft – 184 ft Adjustment 0°; 10°; 20°; 40°
N	Luffing fly jib 46 ft – 276 ft
H	Auxiliary jib 5 ft

Additional equipment

2nd hoist gear	For the 2 hook operation or as luffing winch.
Tyres	16 tyres, size 525/80 R 25 (20.5 R 25).

Other items of equipment available on request.

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

Equipment Équipement

Châssis porteur

Cadre	Châssis résistant à la torsion de fabrication Liebherr, en acier à grains fins très résistant.
Calage	Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Utilisation avec commande à distance, mise à niveau automatique du calage, inclinomètre électronique.
Moteur	Moteur diesel, 8 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 505 kW (687 ch), couple max. 2331 lbs-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG, EPA/CARB, ECE-R.96. Capacité du réservoir à carburant: 225 gallons.
Boîte de vitesse	Boîte automatique avec convertisseur de couple et ralentisseur, marque ZF, 12 marches AV et 2 marches AR, boîte de transfert avec différentiel répartiteur.
Essieux	Grues automotrices à faible entretien, 8 essieux directeurs. Essieux 1, 2, 4 et 5 planétaires. Essieux 2 et 3 avec blocages de différentiels transversaux, essieux 2 et 4 avec blocages de différentiels longitudinaux.
Suspension	Suspension hydropneumatique «Niveumatik» – sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.
Pneumatiques	16 pneus. Taille: 445/95 R 25 (16.00 R 25).
Direction	2 circuits avec direction assistée hydraulique. Direction active des essieux arrière et dépendante de la vitesse, programmes de direction spéciaux pour les différents modes de déplacement.
Freins	Freins de service : servofrein à air comprimé, tous les essieux sont munis de freins à disque, à 2 circuits. Freins auxiliaire : par clapet sur échappement, frein Telma, ralentisseur monté sur boîte de vitesse. Frein de secours et frein à main : par cylindres à ressorts sur les essieux 3 à 7.
Cabine	Spacieuse cabine, traitement anticorrosion, équipement «grand confort», suspension par silentbloks, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts, 2 batteries de 170 Ah chacune.



Partie tournante

Cadre	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
Entraînement	Entraînement mécanique de l'hydraulique de la grue par le châssis de la grue. Pompes réglables à pistons axiaux avec servocommande et réglage de puissance.
Commande	2 leviers à 4 directions avec rappel automatique au point mort. Commande des mouvements progressive en continu par variation de l'inclinaison des pompes et augmentation du régime moteur.
Mécanisme de levage	Moteur hydraulique à cylindrée variable, treuil avec réducteur planétaire à frein d'arrêt à lamelles intégrées, en circuit hydraulique ferme.
Mécanisme de relevage	2 vérin différentiel avec clapet de frein commandé.
Dispositif de rotation	2 moteur à débit constant et pistons axiaux, réducteur planétaire, frein d'arrêt à ressort commandé par ressort en circuit hydraulique ferme.

Cabine de grue	Large champ de vision, vitrage de sécurité, équipement pour un confort idéal, cabine inclinable de env. 20° vers l'arrière.
Dispositif de sécurité	Contrôleur de charge LICCON2, système test, fin de course crochet haut, clapets de sécurité en cas de ruptures de flexibles.
Flèche télescopique	Un élément de base et de 6 télescopes. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMATIK. Longueur de flèche: 53 ft – 279 ft.
Contrepoids	295,400 lbs Dispositif de lestage hydraulique.



Modes de fonctionnement

K	Flechette pliante 23 ft – 115 ft Positionnement 0°; 10°; 20°; 40°
F	Flechette treillis fixe 23 ft – 184 ft Positionnement 0°; 10°; 20°; 40°
N	Flechette treillis à volée variable 46 ft – 276 ft
H	Flechette auxiliaire 5 ft

Équipement supplémentaire

2ème mécanisme de levage	Pour le mode double crochet ou comme treuil de manœuvre de la volée.
Pneumatiques	16 pneus. Taille: 525/80 R 25 (20.5 R 25).

Autres équipements supplémentaires sur demande.

Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

Description of symbols Explication des symboles

General symbols/Symboles généraux



Outriggers
Calage



Axle
Essieu



Radius
Portée



Boom length
Longueur de la flèche



Boom position
Position de la flèche



Counterweight
Contrepoids



Counterweight radius
Rayon de contrepoids



Tyres
Pneumatiques



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



Standard
Norme



Driving speed
Vitesse de translation



Max. lifting capacity
Capacité max.



Transmission
Boîte de vitesse



Gear
Vitesse



Hookblock / Capacity
Moufle à crochet / Capacité de charge



Hoist gear
Treuil de levage



Crane carrier
Châssis porteur



Crane superstructure
Partie tournante de la grue



Gradability
Aptitude à gravir les pentes

Crane specific symbols/Symboles spécifiques à la grue



Telescopic boom
Flèche télescopique



Swing away jib
Fléchette pliante



Fixed lattice jib
Fléchette treillis fixe



Luffing fly jib
Fléchette treillis à volée variable

Remarks referring to load charts

1. The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. Lifting capacities are given in kips.
4. The weight of the hook blocks and hooks must be deducted from the lifting capacities.
5. Working radii are measured from the slewing centre.
6. The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
7. Subject to modification of lifting capacities.
8. Lifting capacities above 444,200 lbs/527,600 lbs only with additional pulley block/special equipment.
9. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.

Remarques relatives aux tableaux des charges

1. La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)s sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Les forces de levage sont données en kips.
4. Les poids des moufles et crochets doit être soustrait des charges indiquées.
5. Les portées sont calculées à partir de l'axe de rotation.
6. Les forces indiquées pour la flèche télescopique s'entendent fléchette déployable déposée.
7. Charges données sous réserve de modification.
8. Forces de levage plus de 444,200 lbs/527,600 lbs seulement avec moufle additionnel/équipement supplémentaire.
9. 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.

Subject to modification / Sous réserve de modifications

Printed in Germany (2)

td-268-01-us07-2017

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