

A real power pack, but flexibel as well!

LTM 1350-6.1

Mobile crane
Grue mobile

LIEBHERR

Mobile and crawler cranes



400 USt



230 ft



310 ft



439 ft

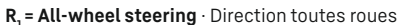


Technical data

Caractéristiques technique

Dimensions	
Encombrement	3
Mobile crane	
Grue mobile	4-5
Crane data	
Dates de la grue	6
Counterweight	
Contrepoids	7
High capacities and flexible boom system	
Forces de levage élevées et système de flèche flexible	8-10
On-road driving	
Déplacement sur route	11
Jobsite driving	
Déplacement sur chantier	11
Boom/jib combinations	
Configurations de flèche	12-15
T	16-18
TY	19-23
TF	24-32
TYVEF	33-47
TYF	48-55
TN	56-65
TYVEN	66-81
Equipment	
Equipement	82-83
Description of symbols	
Explication des symboles	84
Remarks	
Remarques	85

11/11/2016



US2271.06

* lowered · abaissé

LTM 1350-6.1

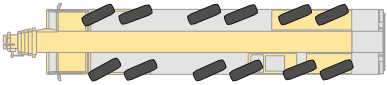
P1 Road steering
Direction sur route



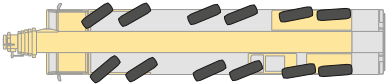
P2 All-wheel steering
Direction toutes roues



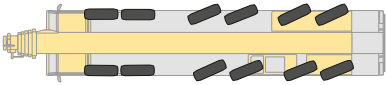
P3 Crab steering
Direction marche en crabe



P4 Reduced swing out
Direction sans déboîtement



P5 Independent rear axle steering
Direction de l'essieu arrière indépendante



S3500



230 ft



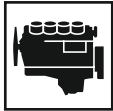
39 ft – 256 ft



20 ft – 138 ft



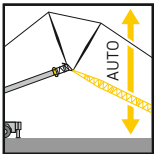
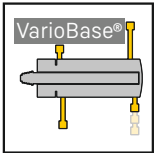
308,600 lb



455 kW (619 h.p.)



180 kW (245 h.p.)



Crane data

Dates de la grue

Hook block
·
Moufles à crochet

			
469,500 lb	12	24 (20)	7,500 lb
343,900 lb	7	14	4,850 lb
275,600 lb	5	11	3,530 lb
176,400 lb	3	7	2,200 lb / 6,620 lb*
79,800 lb	1	3	2,200 lb
26,900 lb	-	1	1,320 lb

* only necessary for operation with 39 ft luffing fly jib · nécessaire uniquement en cas de fonctionnement avec la fléchette à volée variable de 39 ft

Crane carrier
·
Châssis porteur

	 mph min. мин.	 mph max. макс.	 %		
445/95 R 25 (16.00 R 25)	1.5	53	50.9 %		12 / R2
525/80 R 25 (20.5 R 25)	1.5	53	50.9 %		4 / R2

Theoretical gradeability · aptitude théorique en pente

Max. supporting forces
·
Forces d'appui max.

		
Fmax	246,000 lb	305,000 lb

Crane superstructure
·
Partie tournante

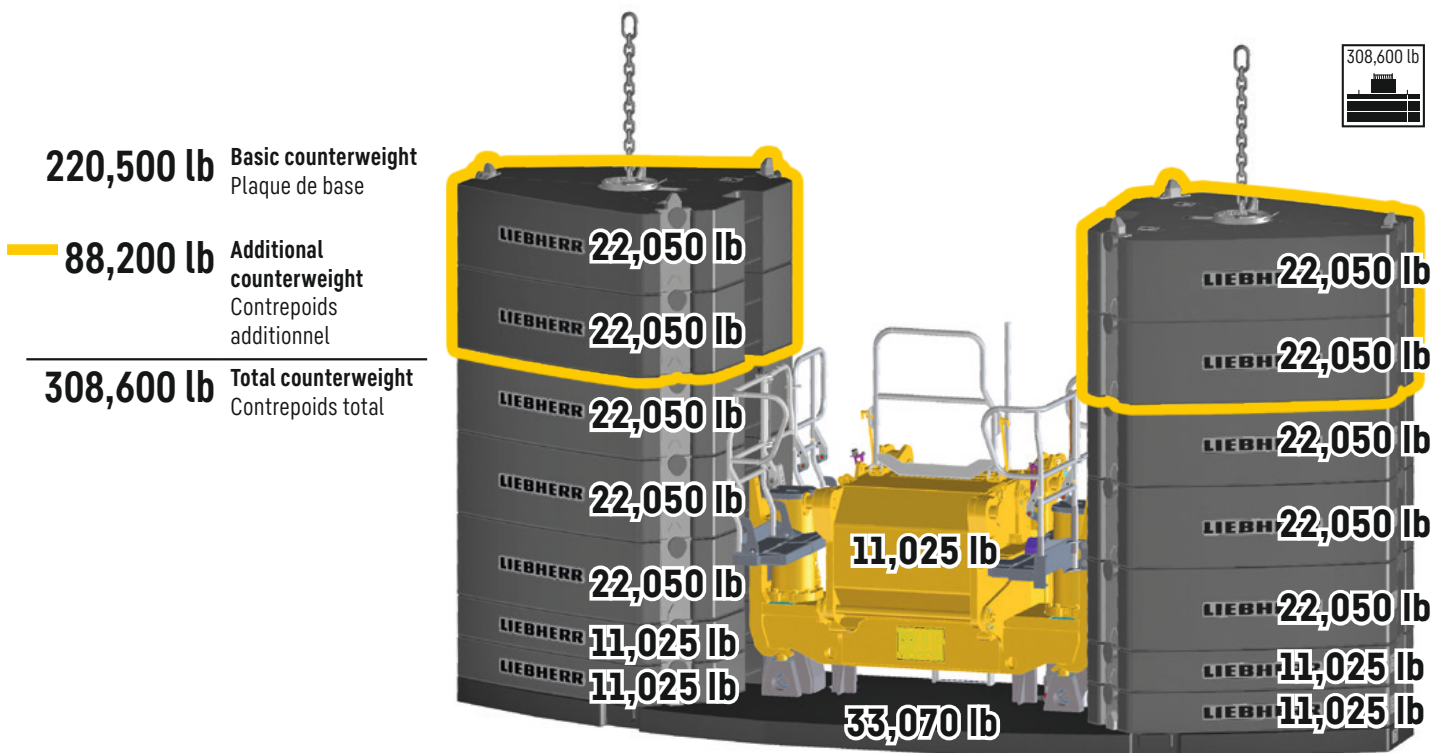
				
	0 – 446 ft/min single line · au brin simple	23 mm	1148 ft	27,425 lb
	0 – 459 ft/min single line · au brin simple	23 mm	2067 ft	27,425 lb
	0 – 1.1 rpm			
	approx. 75 seconds to reach 84° boom angle env. 75 s jusqu'à 84°			
	approx. 533 seconds for boom extension from 49 ft – 230 ft env. 533 s pour passer de 49 ft – 230 ft			

Counterweight Contrepoids

Mounting of counterweight – only a matter of minutes

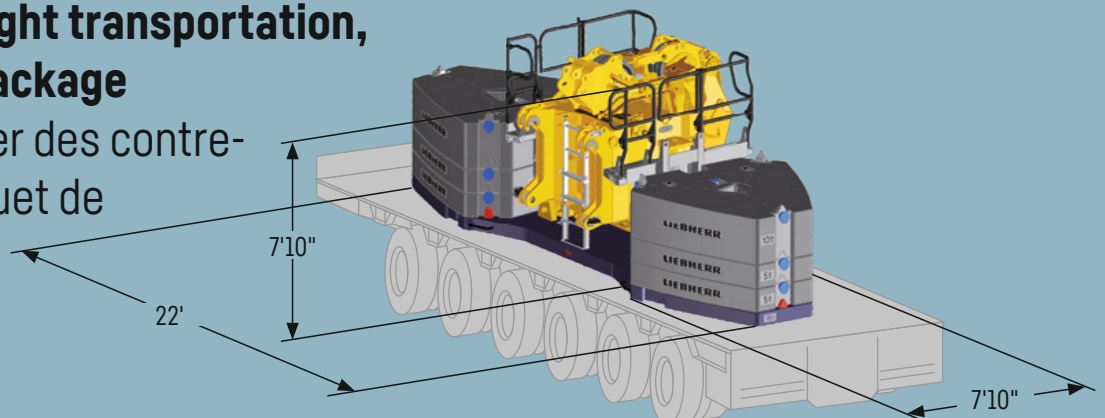
La mise en place du contrepoids : une affaire de minutes

- Hydraulic ballasting device at counterweight frame
- Hoist gear 2 (option) mountable at the counterweight frame without assisting crane
- Dispositif de lestage hydraulique sur le bâti de contrepoids
- Treuil de levage 2 (en option) pouvant être monté sur le bâti de contrepoids sans grue supplémentaire



Easy counterweight transportation, e.g. 138,900 lb package

Transport simplifier des contre-
poids, par ex. paquet de
138,900 lb



High capacities and flexible boom system

Forces de levage élevées et système de flèche flexible

Powerful, long telescopic boom and functional lattice extensions

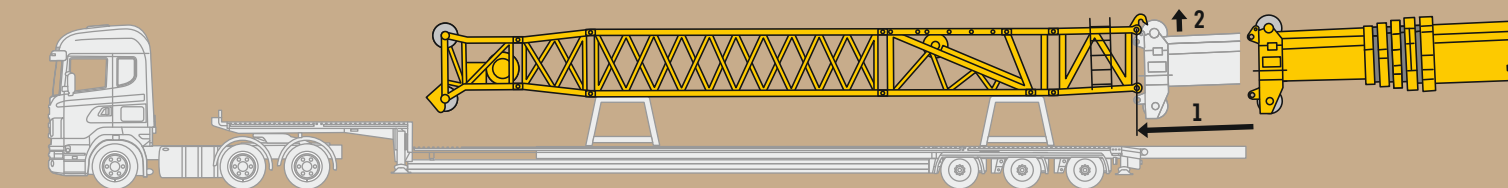
Longue et puissante flèche télescopique, extensions en treillis fonctionnelles

- Stepless interpolation of capacities during luffing of the boom combination between 82° and 68° telescopic boom angle
- Y-telescopic boom suspension, self assembly
- Interpolation continue de la capacité de charge lors du relevage/abaissement de la combinaison de flèche entre l'inclinaison de flèche télescopique 82° et 68°
- Haubanage Y de la flèche télescopique, montage autonome

High capacities with full counterweight as well as with partial counterweight offer a wide application of operations

Les forces de levage élevées aussi bien avec un contrepoids total que partiel offrent un large domaine d'application

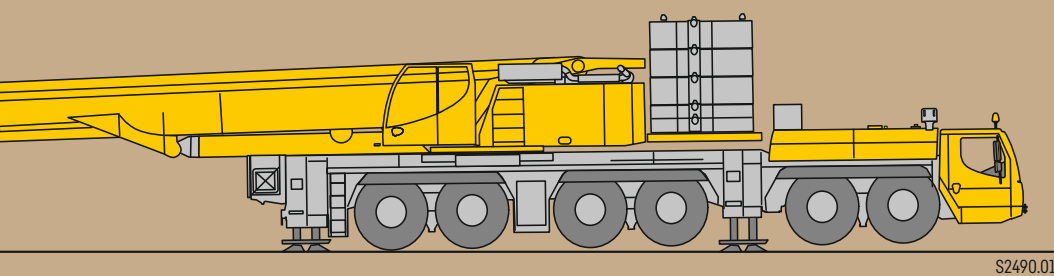
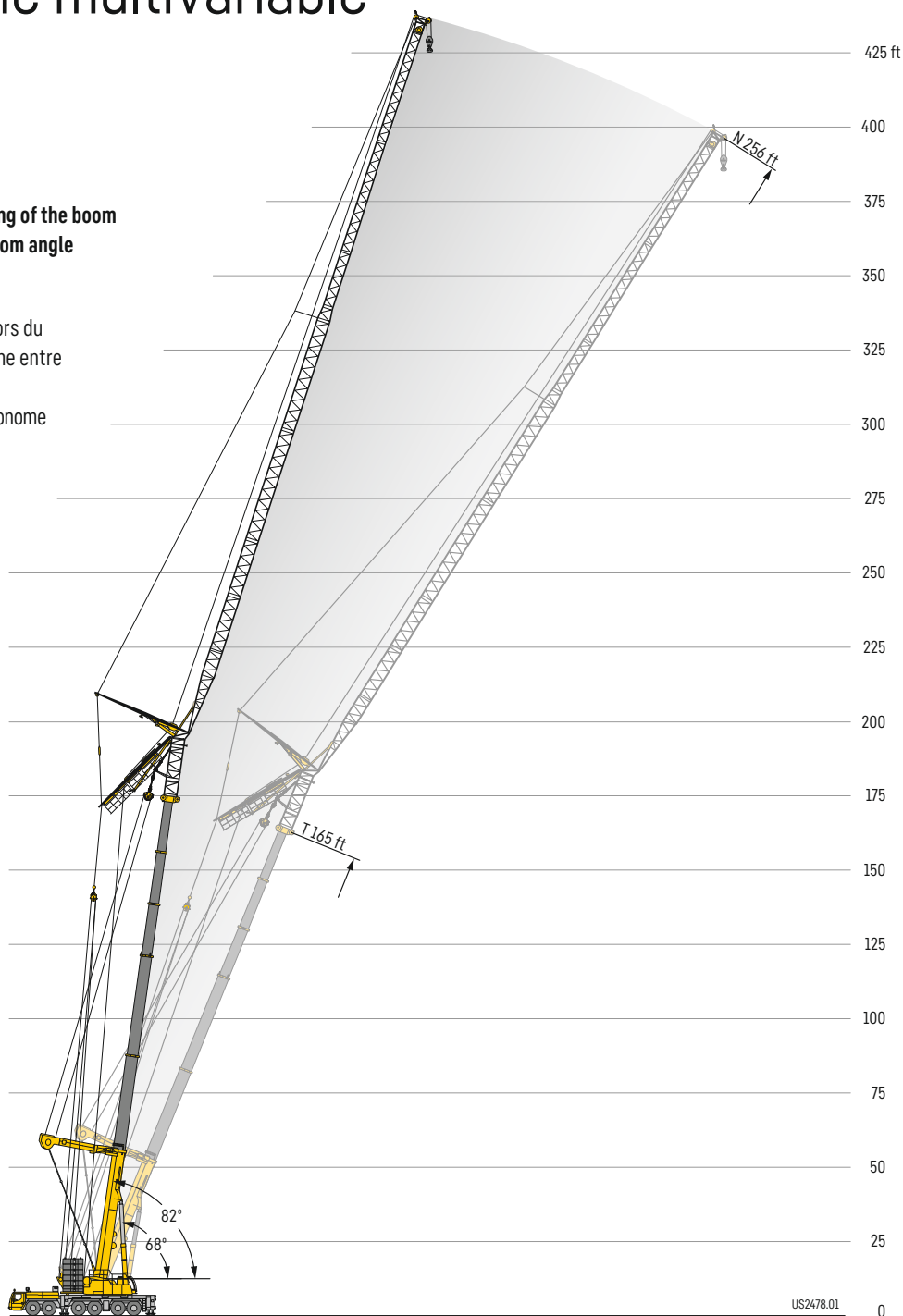
- High lateral stability due to the oval boom profile
- Optimized capacities due to the numerous extension variations
- Capacity 80,200 lb at 230 ft long suspended telescopic boom
- Forte stabilité latérale en raison du profil de flèche ovale
- Capacités de charge optimales grâce à la diversité des variantes d'extension
- Capacité de charge de 80,200 lb sur une flèche télescopique haubanée de 230 ft de long



Multivariable boom system

Système de flèche multivariable

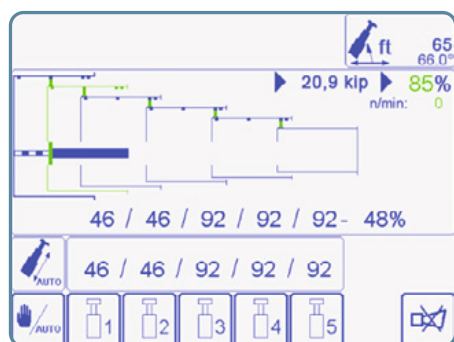
- Stepless interpolation of capacities during luffing of the boom combination between 82° and 68° telescopic boom angle
- Y-telescopic boom suspension, self assembly
- Interpolation continue de la capacité de charge lors du relevage/abaissement de la combinaison de flèche entre l'inclinaison de flèche télescopique 82° et 68°
- Haubanage Y de la flèche télescopique, montage autonome



Self assembly of the fixed jib
Montage autonome de la fléchette fixe

The fully automatic telescoping system **TELEMATIK**

Le système de télescopage entièrement automatique
TELEMATIK

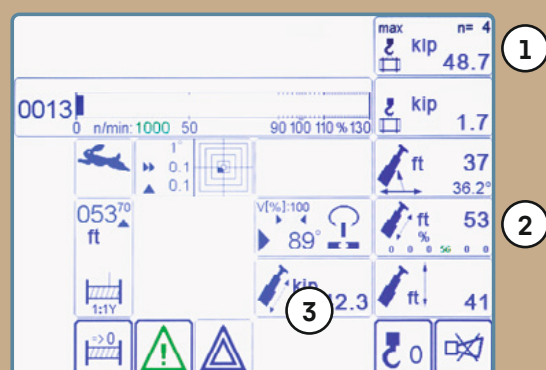


- **Improvement of capacities at long booms and large radii due to “lightweight” telescoping system**
 - **1-stage hydraulic cylinder with hydraulically operated drive pin**
 - **Maintenance free telescoping system**
 - **Telescoping fully automatic**
 - **Simple operation, supervision of telescoping at the LICCON monitor**
-
- **Augmentation des capacités de charge grâce aux flèches plus longues, et vastes portées garanties par un système de télescopage „simple“**
 - **Vérin hydraulique 1 étage avec axe d'entraînement actionné hydrauliquement**
 - **Système de télescopage sans entretien**
 - **Télescopage entièrement automatique**
 - **Utilisation simplifiée, contrôle du processus de télescopage sur l'écran LICCON**

High capacities at unpinned boom lengths

Forces de levage élevées lorsque les longueurs de télescopage ne sont pas verrouillées

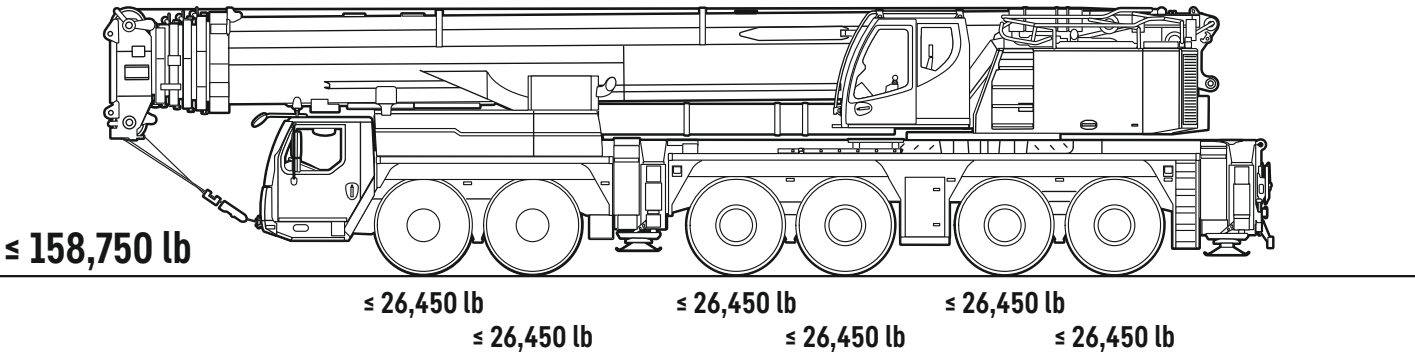
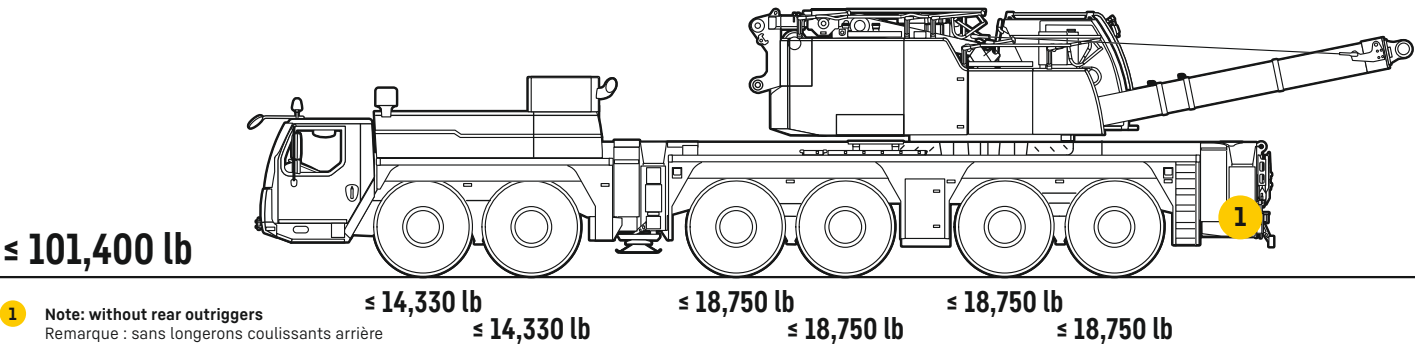
- **High telescopic capacities due to interpolation**
 - **Separate capacity charts for holding of loads at unpinned boom lengths**
 - **Display at LICCON-monitor**
- Capacités télescopiques élevées par interpolation
 - Tableaux des charges séparés pour le maintien des charges lorsque les longueurs de télescopage ne sont pas verrouillées
 - Affichage sur le moniteur LICCON



- 1 **Holding capacity** · Capacité de maintien
- 2 **Unpinned telescope length** · Longueurs de télescope non verrouillées
- 3 **Telescopic capacity** · Capacité télescopable

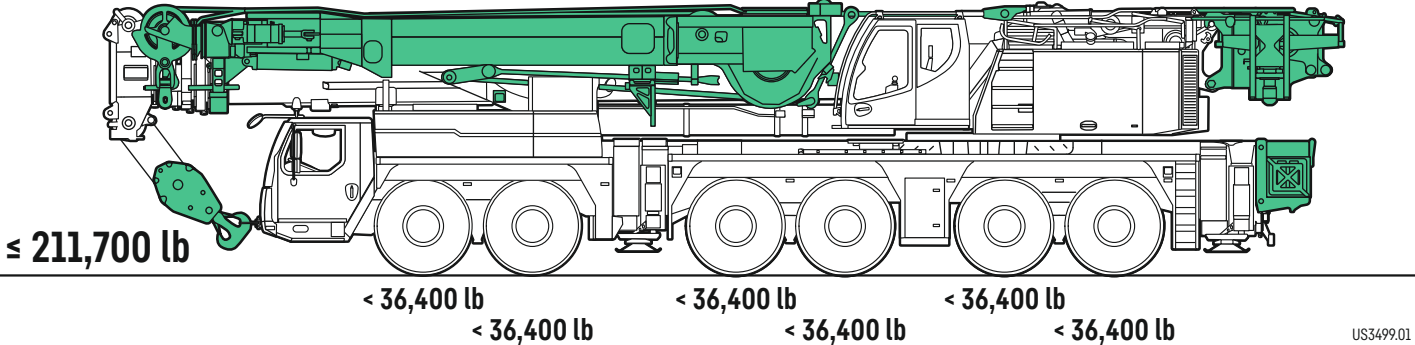
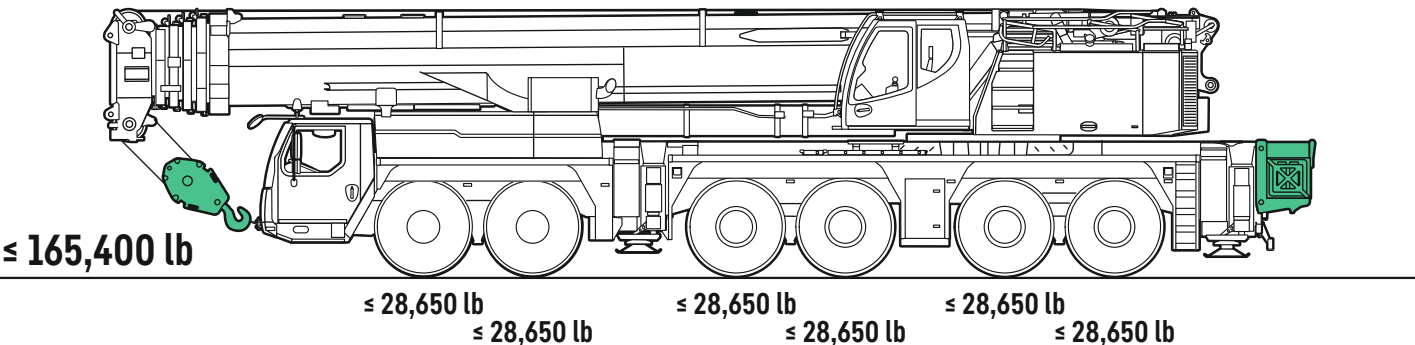
On-road driving

Déplacement sur route



Jobsite driving

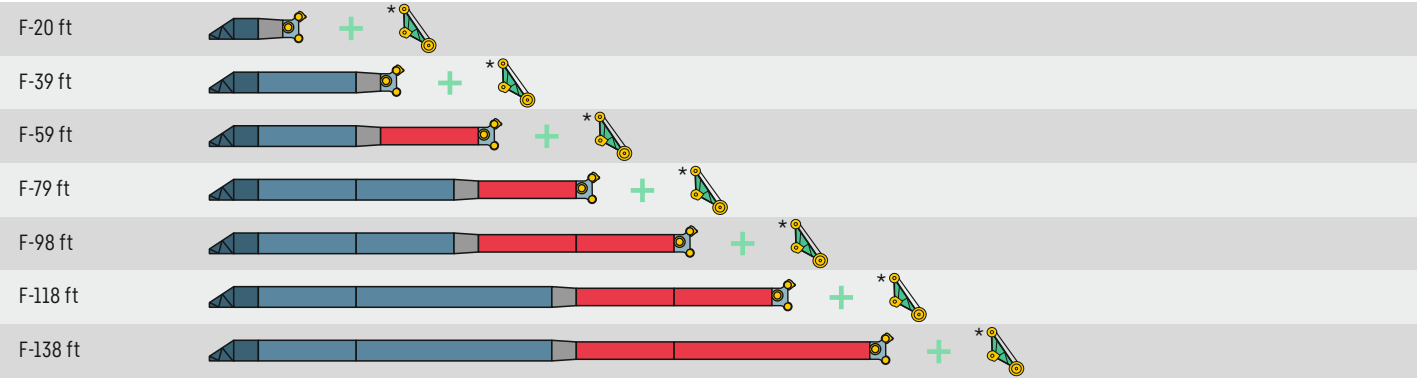
Déplacement sur chantier



Boom/jib combinations – Fixed fly jib

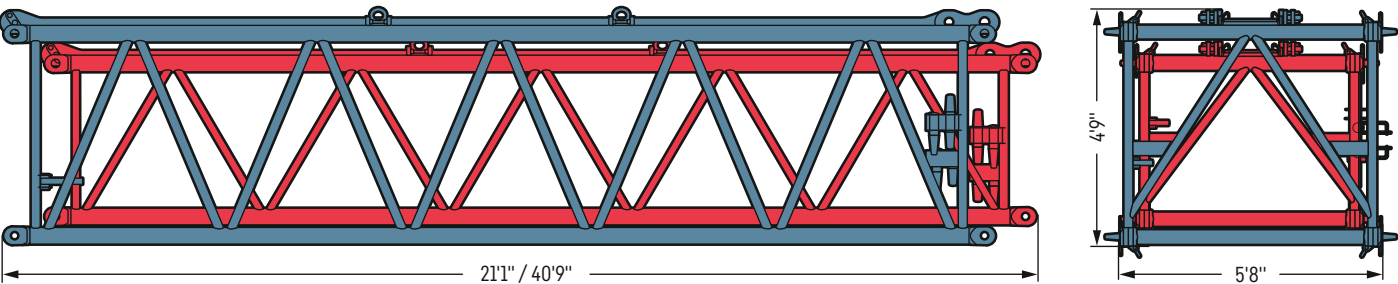
Configurations de flèche – Fléchette fixe

TF



- 9'10" TF-adapter · TF-adaptateur
- NA-19'8"
- NA-39'4"
- 4'11" NI reduction section · Élément réducteur NI
- NI-19'8"
- NI-39'4"
- 4'11" N head section · Élément de tête N
- 4'3" H auxiliary jib · Fléchette auxiliaire H

US2434.01

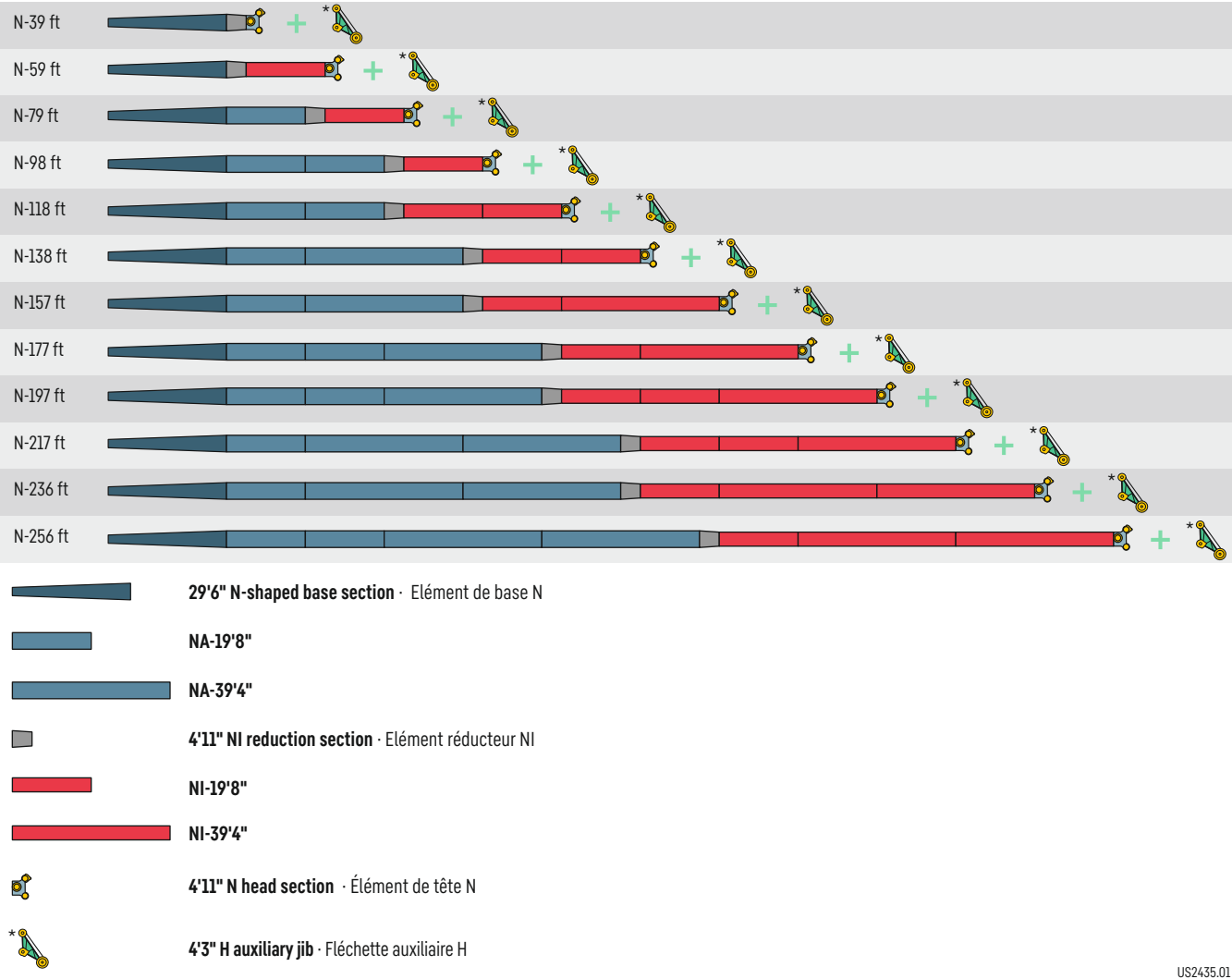


US2436.01

Boom/jib combinations – Luffing fly jib

Configurations de flèche – Fléchette à volée variable

TN

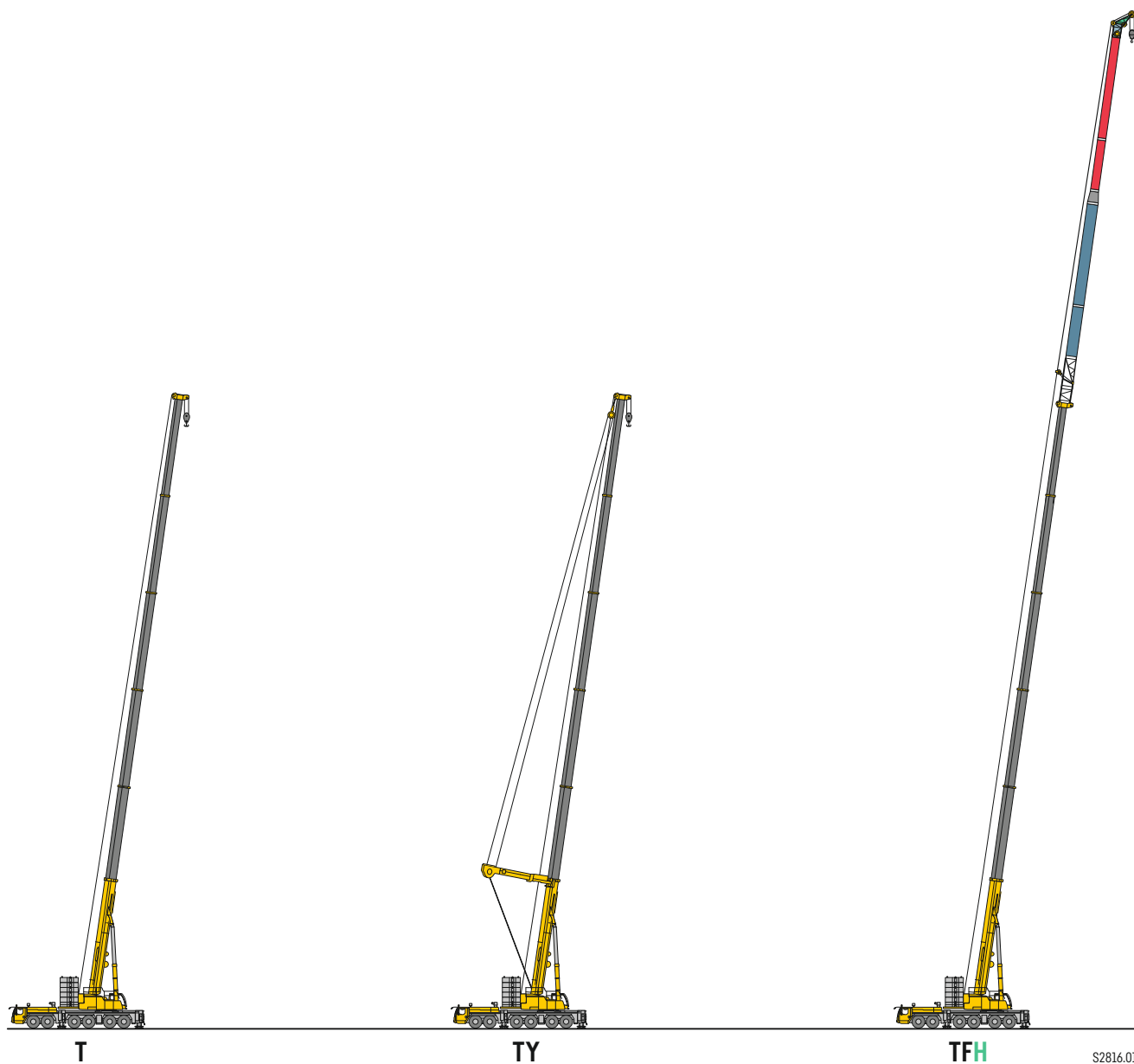


US2435.01

Boom/jib combinations

Configurations de flèche

- T** **Telescopic boom** • Flèche télescopique
- Y** **Y-shaped guying system** • Haubanage Y
- F** **Fixed lattice jib** • Fléchette treillis fixe
- H** **Auxiliary jib** • Fléchette auxiliaire



S2816.01

Boom/jib combinations

Configurations de flèche

VE 11'6" Telescopic boom extension + Eccentric • Rallonge de flèche télescopique + Axe excentrique

N Luffing fly jib • Fléchette treillis à volée variable

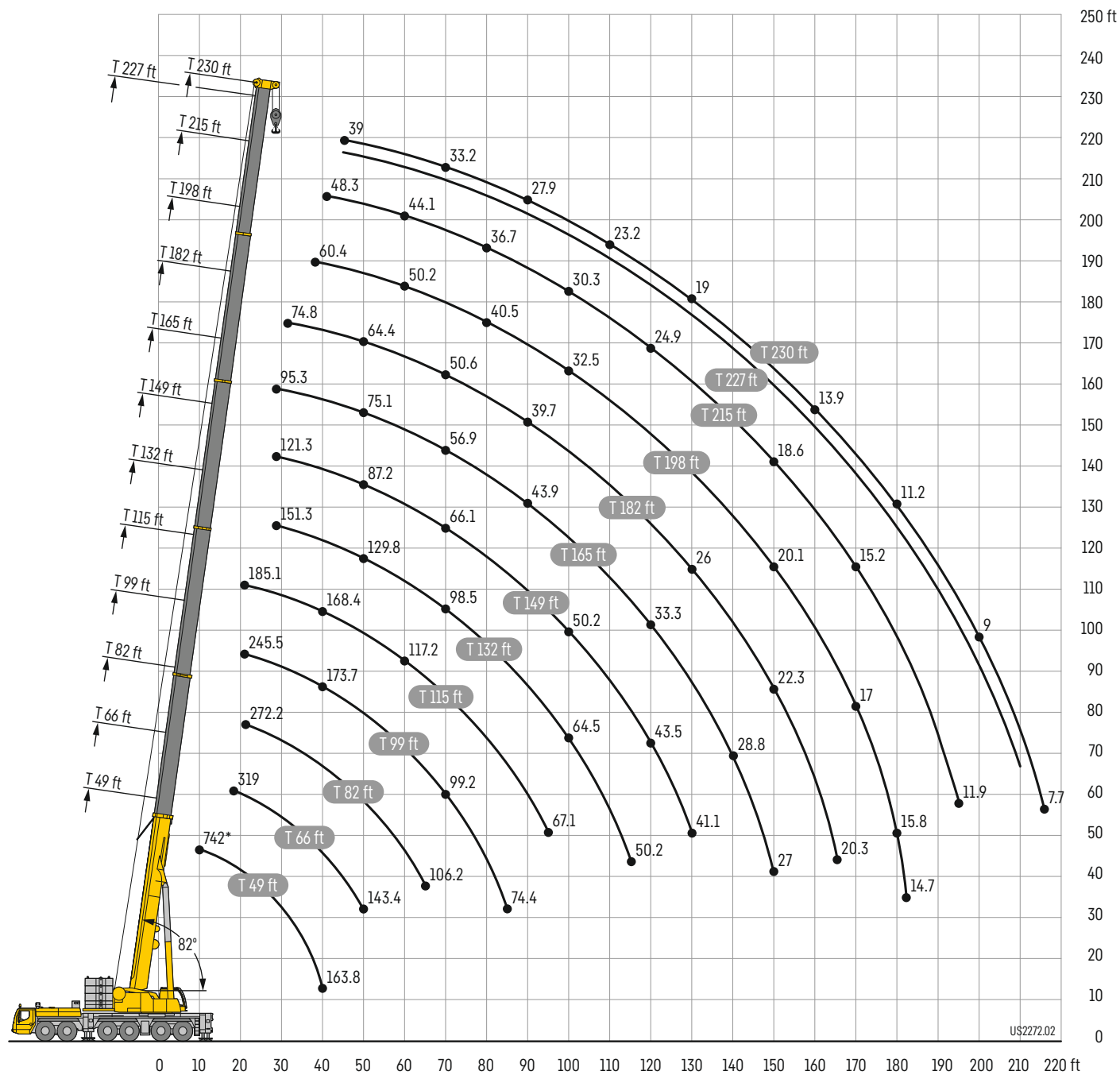


S2816.01

Lifting heights

Hauteurs de levage

T

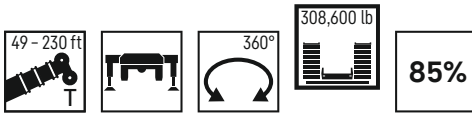


*220,500 lb Counterweight - Contrepoids

Lifting capacities

Forces de levage

T



	49 ft	66 ft	82 ft	99 ft	115 ft	132 ft	149 ft	165 ft	182 ft	198 ft	215 ft	227 ft	230 ft	
18	323.7	319												18
20	308.8	309												20
22	288.4	289.6	272.2	245.5	185.1									22
24	269.8	271.5	260.2	240.7	185									24
26	253	254.8	247	233.9	197.6									26
28	238.7	240.5	235.7	223.4	197.4	151.3	121.3	95.3						28
30	225.3	227.1	224.6	212.9	195.4	156.1	119.5	94.9						30
32	213.5	215.2	213.4	203.9	192.7	156.1	116.4	93.9	74.8					32
34	202.7	204.3	202.7	195.7	187.7	155.5	113.1	92.4	74.5					34
36	192.4	194.1	192.5	187.9	181.1	154.5	109.7	90.6	73.9					36
38	182.4	185.2	183.6	180.8	174.6	151.9	106.1	88.4	73.1	60.4				38
40	163.8	176.8	175.2	173.7	168.4	149	102.7	86.1	72.1	60				40
42		169.3	167.4	166.4	162.6	145.8	99.4	83.8	70.6	59.5	48.3			42
44		162.2	160.3	159.4	157.1	142	96.1	81.5	69.1	58.8	48.1	40.6	39	44
46		155.4	153.5	152.6	151.8	137.9	92.9	79.3	67.5	57.9	47.9	40.3	38.9	46
48		149.4	147.7	146.8	146.8	133.9	90	77.2	66	56.8	47.5	39.9	38.6	48
50		143.4	142	141.1	141.8	129.8	87.2	75.1	64.4	55.7	47	39.5	38.4	50
55			128.7	127.9	129.4	120.6	80.4	70.2	60.6	53	45.7	38.2	37.4	55
60			116.6	116.7	117.2	112.4	74.2	65.5	57	50.2	44.1	36.7	36.2	60
65			106.2	107.8	106.7	105	69.9	60.9	53.7	47.5	42.3	35.2	34.7	65
70				99.2	97.9	98.5	66.1	56.9	50.6	45.1	40.4	33.6	33.2	70
75				91.4	90.1	91.8	62.8	53.1	47.6	42.8	38.6	32.2	31.8	75
80				83.7	83.1	85.1	59.9	49.7	44.7	40.5	36.7	30.8	30.5	80
85				74.4	76.9	79	57	46.6	42.2	38.3	35.1	29.4	29.1	85
90					71.7	73.6	54.6	43.9	39.7	36.3	33.4	28.2	27.9	90
95					67.1	68.8	52.3	41.2	37.5	34.4	31.8	26.9	26.7	95
100						64.5	50.2	39	35.4	32.5	30.3	25.7	25.5	100
105						60.5	48.3	37.4	33.3	30.8	28.8	24.5	24.3	105
110						56.5	46.6	36	31.4	29.2	27.4	23.4	23.2	110
115						50.2	45	34.6	29.8	27.7	26.1	22.3	22	115
120							43.5	33.3	28.4	26.2	24.9	21.2	20.9	120
125							42.2	32	27.1	24.9	23.8	20.3	19.9	125
130							41.1	30.8	26	23.9	22.6	19.4	19	130
135								29.8	25	22.8	21.5	18.6	18	135
140								28.8	24	21.8	20.5	17.7	17.1	140
145								27.8	23.1	20.9	19.5	16.9	16.2	145
150								27	22.3	20.1	18.6	16.2	15.4	150
155									21.6	19.2	17.7	15.5	14.6	155
160									20.9	18.4	16.9	14.8	13.9	160
165									20.3	17.7	16	14.2	13.1	165
170										17	15.2	13.6	12.5	170
175										16.4	14.5	13.1	11.8	175
180										15.8	13.8	12.5	11.2	180
185										14.7	13.2	12	10.6	185
190											12.5	11.5	10	190
195											11.9	11.1	9.5	195
200												10.6	9	200
205												10.1	8.5	205
210												9.7	8.1	210
215													7.7	215

t_180_50301_00_000

Lifting capacities

Forces de levage

T

49 - 230 ft



360°

220,500 lb

85%

	49 ft		66 ft	82 ft	99 ft	115 ft	132 ft	149 ft	165 ft	182 ft	198 ft	215 ft	227 ft	230 ft	
	*														
9		343.3													9
10	742	343.3													10
11	554	343.3	343.3												11
12	454.8	343.3	343.3												12
13	438.6	343.3	343.3	342											13
14	417.7	343.3	343.3	341.7	252.5										14
15	397.4	343.1	343	338.7	252.5										15
16	381.3	342.2	341.6	328	252.5										16
17	367.8	334.7	334.3	318.3	252.5										17
18	356.1	322.7	323	309.2	252.5	205									18
20	332.1	299.3	300.8	291.3	251.8	204.7									20
22	304.4	279.5	281.1	275	247.3	202.8	156.1								22
24	279.3	261.4	263.2	259.5	241.3	201	156.1								24
26	256.7	245.1	246.9	244.9	233.9	199.3	156.1	122.9							26
28	238.3	231.2	233	231.3	223.4	197.4	156.1	121.4	95.3						28
30	221.4	218	219.8	218.2	212.7	195.4	156.1	119.5	94.9						30
32	207.1	206.1	208	206	202.8	192.7	156.1	116.4	93.9	74.8					32
34	194.2	194.2	196.1	194.2	192.4	187.7	155.5	113.1	92.4	74.5					34
36	182.2	182.2	184.2	182.4	181.6	181	154.5	109.7	90.6	73.9					36
38	172.2	172.2	174.1	172.4	173	172.6	151.9	106.1	88.4	73.1	60.4				38
40	155.6	155.6	164.6	162.9	164.5	164	149	102.7	86.1	72.1	60				40
42			156.3	154.5	156.4	155.4	145.8	99.4	83.8	70.6	59.5	48.3			42
44			148.7	147.6	148.8	147.6	142	96.1	81.5	69.1	58.8	48.1	40.6	39	44
46			141.3	141.5	141.5	140.3	137.9	92.9	79.3	67.5	57.9	47.9	40.3	38.9	46
48			135.3	135.6	135.4	134.2	133.3	90	77.2	66	56.8	47.5	39.9	38.6	48
50			129.3	129.7	129.4	128.2	128.6	87.2	75.1	64.4	55.7	47	39.5	38.4	50
55				116.5	116	114.7	116.9	80.4	70.2	60.6	53	45.7	38.2	37.4	55
60				105.2	104.7	103.6	105.5	74.2	65.5	57	50.2	44.1	36.7	36.2	60
65				95.7	95.3	95.6	96	69.9	60.9	53.7	47.5	42.3	35.2	34.7	65
70					87.3	88.8	87.9	66.1	56.9	50.6	45.1	40.4	33.6	33.2	70
75					79.8	82	80.5	62.8	53.1	47.6	42.8	38.6	32.2	31.8	75
80					73.4	75.3	73.6	59.9	49.7	44.7	40.5	36.7	30.8	30.5	80
85					69.2	69.1	67.4	57	46.6	42.2	38.3	35.1	29.4	29.1	85
90						63.9	62.2	54.6	43.9	39.7	36.3	33.4	28.2	27.9	90
95						59.2	57.5	52.3	41.2	37.5	34.4	31.8	26.9	26.7	95
100							53.2	50.2	39	35.4	32.5	30.3	25.7	25.5	100
105							49.4	48.3	37.4	33.3	30.8	28.8	24.5	24.3	105
110							46	46.5	36	31.4	29.2	27.4	23.4	23.2	110
115							43	44.2	34.6	29.8	27.7	26.1	22.3	22	115
120								41.8	33.3	28.4	26.2	24.9	21.2	20.9	120
125								39.1	32	27.1	24.9	23.8	20.3	19.9	125
130								36.8	30.8	26	23.9	22.6	19.4	19	130
135									29.8	25	22.8	21.5	18.6	18	135
140									28.8	24	21.8	20.5	17.7	17.1	140
145									27.8	23.1	20.9	19.5	16.9	16.2	145
150									27	22.3	20.1	18.6	16.2	15.4	150
155										21.6	19.2	17.7	15.5	14.6	155
160										20.9	18.4	16.9	14.8	13.9	160
165										20.3	17.7	16	14.2	13.1	165
170											17	15.2	13.6	12.5	170
175											16.4	14.5	13.1	11.8	175
180											15.8	13.8	12.5	11.2	180
185											14.7	13.2	12	10.6	185
190												12.5	11.5	10	190
195												11.9	11.1	9.5	195
200													10.6	9	200
205													10.1	8.5	205
210													9.7	8.1	210
215														7.7	215

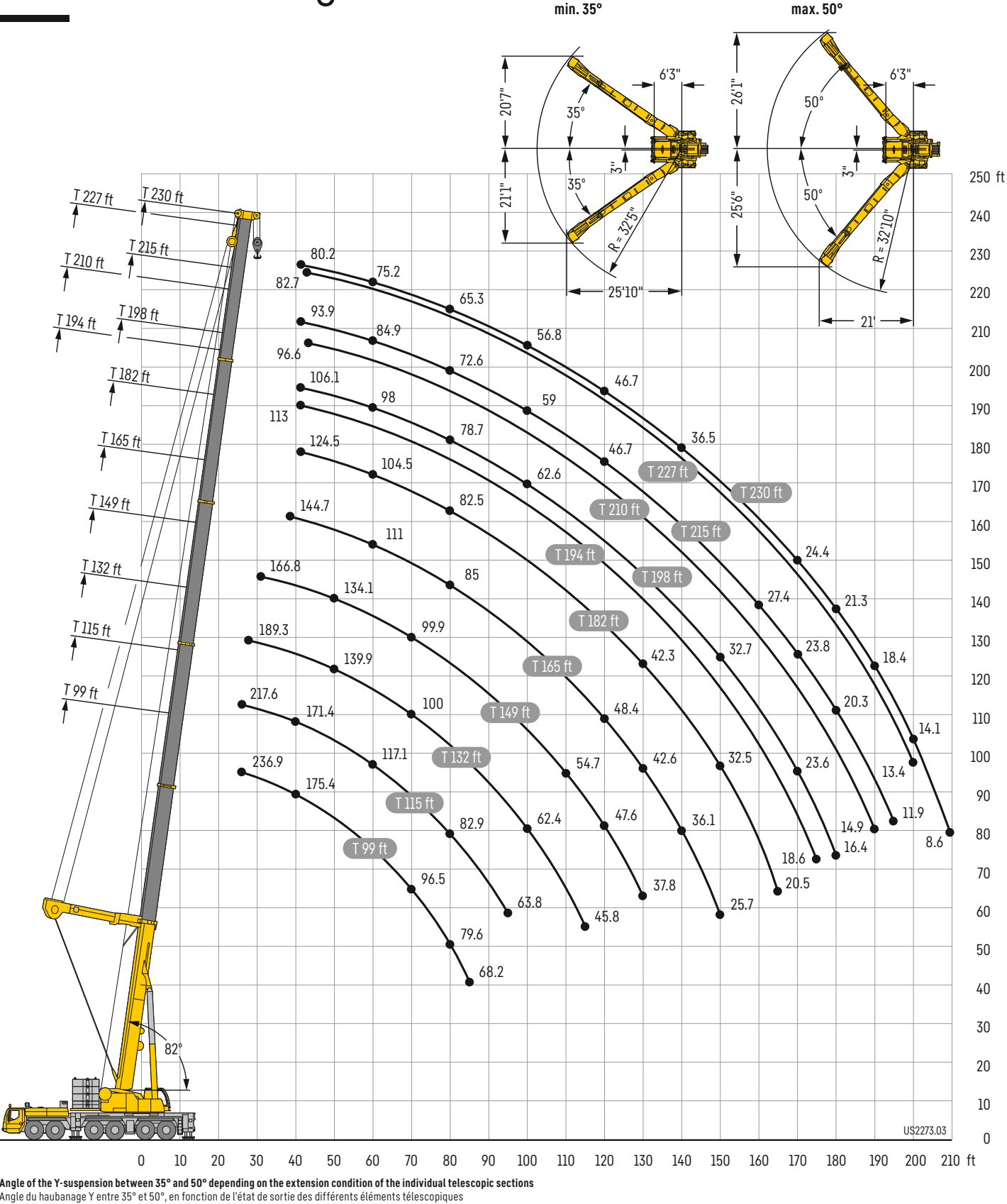
* over rear · en arrière

t_180_50005_00_000 / 50305_00_000

Lifting heights

Hauteurs de levage

TY



Lifting capacities

Forces de levage

TY



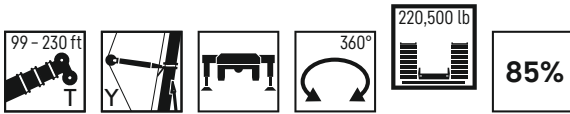
	99 ft	115 ft	132 ft	149 ft	165 ft	182 ft	198 ft	215 ft	227 ft	230 ft	
26	236.9	217.6									26
28	227	212.9	189.3								28
30	217.3	207.4	186.1								30
32	207.7	199.7	184.2	166.8							32
34	199.5	192.1	179.7	165.3							34
36	192.4	184.4	173.7	163.1							36
38	183.8	177.9	168.6	159.2	144.7						38
40	175.4	171.4	163.4	155	143.2						40
42	167.3	165.2	157.7	150.5	140	124.5	106.1	93.9		80.2	42
44	159.9	159.3	152.9	146	136.4	123.8	105.8	93.6	82.7	80	44
46	152.9	153.5	148.5	141.5	132.8	122.9	105.4	93.1	81.8	79.6	46
48	146.8	147.7	144.2	137.8	129.6	120.5	104.7	92.3	80.8	79.2	48
50	140.8	141.9	139.9	134.1	126.3	118.2	104	91.5	79.7	78.7	50
55	127.2	128.7	129.1	125	118.4	111.6	101.5	88.6	76.9	77.2	55
60	115.5	117.1	118.5	116.2	111	104.5	98	84.9	73.9	75.2	60
65	105.6	107.1	108.7	107.8	104.4	98.3	92.9	81.6	70.9	72.7	65
70	96.5	98.3	100	99.9	97.8	92.9	87.8	78.4	68.3	70.1	70
75	88.3	90.3	91.9	92.2	91.4	87.6	83.1	75.4	65.9	67.6	75
80	79.6	82.9	84.4	84.8	85	82.5	78.7	72.6	63.7	65.3	80
85	68.2	76.2	77.9	78.2	78.5	77.6	74.3	69.4	61.6	63.1	85
90		70.5	72.2	72.6	72.9	72.5	70.4	65.7	59.7	60.9	90
95		63.8	67.1	67.5	67.8	67.4	66.6	62.2	57.7	58.9	95
100			62.4	62.8	63.1	62.7	62.6	59	55.8	56.8	100
105			58.1	58.5	58.8	58.4	58.3	56	53.9	54.5	105
110			53	54.7	55.1	54.7	54.6	53	51.9	52	110
115			45.8	51.2	51.7	51.2	51.1	49.8	49.5	49.4	115
120				47.6	48.4	48	47.8	46.7	46.8	46.7	120
125				43.6	45.4	45.1	44.8	43.7	44	44	125
130				37.8	42.6	42.3	42.1	40.9	41.4	41.4	130
135					39.7	39.7	39.6	38.3	38.9	38.9	135
140					36.1	37.3	37.1	35.8	36.4	36.5	140
145					31.4	34.8	34.9	33.5	34.1	34.3	145
150					25.7	32.5	32.7	31.3	32	32	150
155						29.2	30.5	29.3	29.9	30	155
160						25.2	28.5	27.4	28	28	160
165						20.5	26.5	25.5	26.1	26.2	165
170							23.6	23.8	24.3	24.4	170
175							20.3	22.2	22.8	22.8	175
180							16.4	20.3	21.3	21.3	180
185								17.9	19.8	19.8	185
190								15.2	18.2	18.4	190
195								11.9	15.9	16.4	195
200									13.4	14.1	200
205										11.5	205
210										8.6	210

TAB 180_60101_00_000

Lifting capacities

Forces de levage

TY



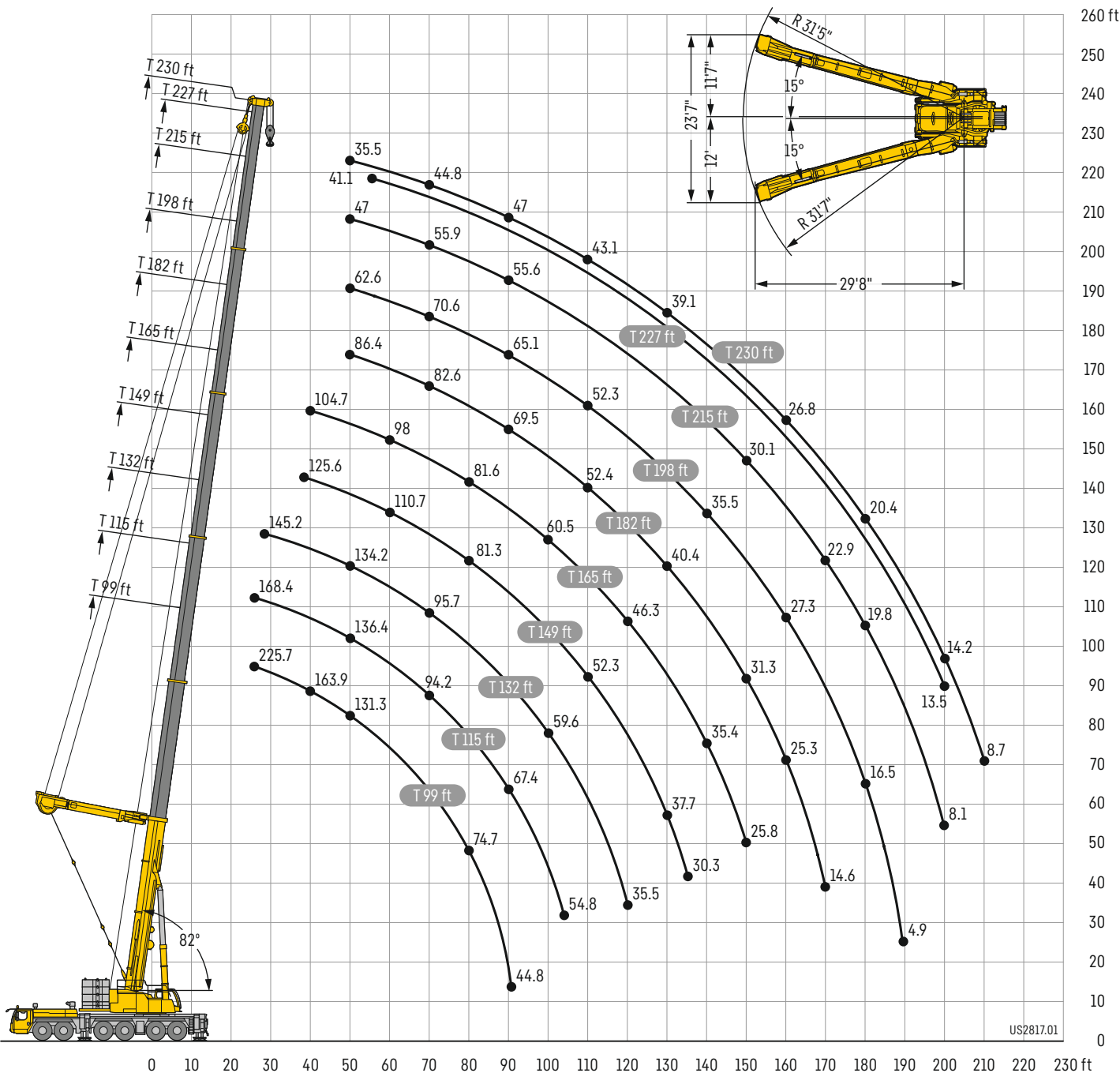
	99 ft	115 ft	132 ft	149 ft	165 ft	182 ft	198 ft	215 ft	227 ft	230 ft	
15	256.7										15
16	259.8										16
17	261.2										17
18	261.7										18
20	262	231.6									20
22	259.1	234.4									22
24	251.8	232	198.9								24
26	240.4	224.8	198.8								26
28	228.6	216.1	196.8	167.4							28
30	217.1	207.4	193.9	167.8	145.1						30
32	206.4	199.7	189	167.8	145.3						32
34	196.5	192.1	182.8	166.7	145.4						34
36	187.1	184.4	175.8	164.7	145.4						36
38	177.6	176.7	169.5	159.9	144.7	124.6	106.3				38
40	168.2	168.8	163.4	155	143.2	124.6	106.3	94.2		79.8	40
42	159.1	160.3	157.7	150.5	140	124.5	106.1	93.9	82.8	80.2	42
44	150.8	152.2	151.6	146	136.4	123.8	105.8	93.6	82.7	80	44
46	143	144.4	145.4	141.5	132.8	122.9	105.4	93.1	81.8	79.6	46
48	136.5	138.1	139.2	136.6	129.6	120.5	104.7	92.3	80.8	79.2	48
50	130.1	131.7	133	131.7	126.3	118.2	104	91.5	79.7	78.7	50
55	115.7	117.5	119	119.3	117.3	111.4	101.5	88.6	76.9	77.2	55
60	103.6	105.3	106.9	107.2	107.3	103.6	97.8	84.9	73.9	75.2	60
65	93.5	95.2	96.8	97.1	97.3	94.7	91.4	81.6	70.9	72.7	65
70	84.7	86.6	88.2	88.5	88.8	86.7	84.1	78.1	68.3	70.1	70
75	77	79.1	80.6	81	81.3	79.6	77.2	73.4	65.9	67.5	75
80	70.1	72.3	73.9	74.3	74.6	73.2	71.1	67.7	63.5	64.8	80
85	63.6	66.1	68	68.3	68.7	67.5	65.6	62.4	60.8	61.6	85
90		60.6	62.5	62.9	63.3	62.4	60.7	57.7	57	57.1	90
95		55.4	57.4	57.9	58.3	57.7	56.2	53.3	53	52.9	95
100			52.8	53.3	53.6	53.2	52.1	49.3	49.1	49	100
105			48.5	49	49.4	49	48.3	45.7	45.5	45.4	105
110			44.7	45.2	45.7	45.2	44.8	42.4	42.3	42.2	110
115			41.1	41.7	42.3	41.8	41.6	39.3	39.3	39.3	115
120				38.5	39.1	38.6	38.4	36.5	36.5	36.5	120
125				35.6	36.1	35.8	35.5	33.9	33.9	33.9	125
130				32.8	33.5	33.1	32.9	31.5	31.6	31.6	130
135					31	30.7	30.5	29.2	29.4	29.4	135
140					28.7	28.3	28.2	27	27.3	27.3	140
145					26.5	26.2	26.1	24.9	25.3	25.4	145
150					24.3	24.2	24.1	22.9	23.4	23.5	150
155						22.4	22.2	21.1	21.6	21.7	155
160						20.7	20.5	19.4	20	20	160
165						18.5	18.9	17.8	18.3	18.4	165
170							17.4	16.2	16.8	16.9	170
175							15.9	14.9	15.4	15.5	175
180							14.2	13.5	14.1	14.1	180
185								12.3	12.8	12.8	185
190								11.1	11.6	11.6	190
195								9.9	10.5	10.5	195
200									9.4	9.4	200
205										8.4	205
210										7.3	210

TAB 180_60105_00_000

Lifting heights

Hauteurs de levage

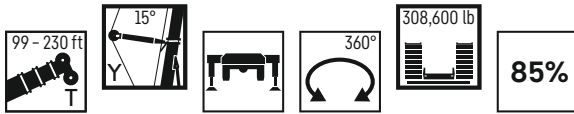
TY



Lifting capacities

Forces de levage

TY



	99 ft	115 ft	132 ft	149 ft	165 ft	182 ft	198 ft	215 ft	227 ft	230 ft	
26	225.7	168.4									26
28	219.4	166.4									28
30	211.3	168.5	141.8								30
32	199.6	179.4	148.5								32
34	189.7	182.3	150.5								34
36	181.1	179.8	149.4								36
38	172.3	173.7	148.2	125.6							38
40	163.9	167.3	146.8	125.6	104.7						40
45	145.6	151	141.9	122.5	105.4						45
50	131.3	136.4	134.2	119	103.4	86.4	62.6	47		35.5	50
55	119.2	123.4	124.5	115.2	100.8	87.5	65.6	49.7	41.1	38.1	55
60	108.7	112.1	113.6	110.7	98	86.5	68.1	52.4	44.2	41.2	60
65	99	102.5	104.1	103.7	95.3	84.7	69.8	54.2	46.2	43.2	65
70	90.4	94.2	95.7	95.9	92.2	82.6	70.6	55.9	47.8	44.8	70
75	82.5	86.4	88	88.3	87.5	80.4	70.1	57.1	49.1	46.3	75
80	74.7	79.2	80.9	81.3	81.6	77.9	68.5	57.5	49.9	47.4	80
85	66.1	72.9	74.6	75	75.3	74.7	66.8	56.6	50	47.9	85
90	44.8	67.4	69.1	69.5	69.9	69.5	65.1	55.6	48.9	47	90
95		62.1	64.2	64.6	65	64.6	63	54.5	47.8	46.1	95
100		54.8	59.6	60.1	60.5	60.1	60	53.4	46.7	45.1	100
105			55.5	56	56.4	56	55.9	52.2	45.7	44.1	105
110			51.8	52.3	52.7	52.4	52.3	50.5	44.7	43.1	110
115			45.6	48.9	49.4	49	48.9	47.8	43.6	42.2	115
120			35.5	45.8	46.3	45.9	45.8	44.8	42.7	41.2	120
125				42.7	43.4	43.1	42.9	42	41.7	40.4	125
130				37.7	40.7	40.4	40.3	39.4	39.6	39.1	130
135				30.3	38.3	38	37.9	36.9	37.3	37.2	135
140					35.4	35.7	35.5	34.5	34.9	35	140
150					25.8	31.3	31.2	30.1	30.6	30.6	150
160						25.3	27.3	26.3	26.8	26.8	160
170						14.6	23.6	22.9	23.4	23.4	170
180							16.5	19.8	20.4	20.4	180
190							4.9	15.3	17.7	17.7	190
200								8.1	13.5	14.2	200
210										8.7	210

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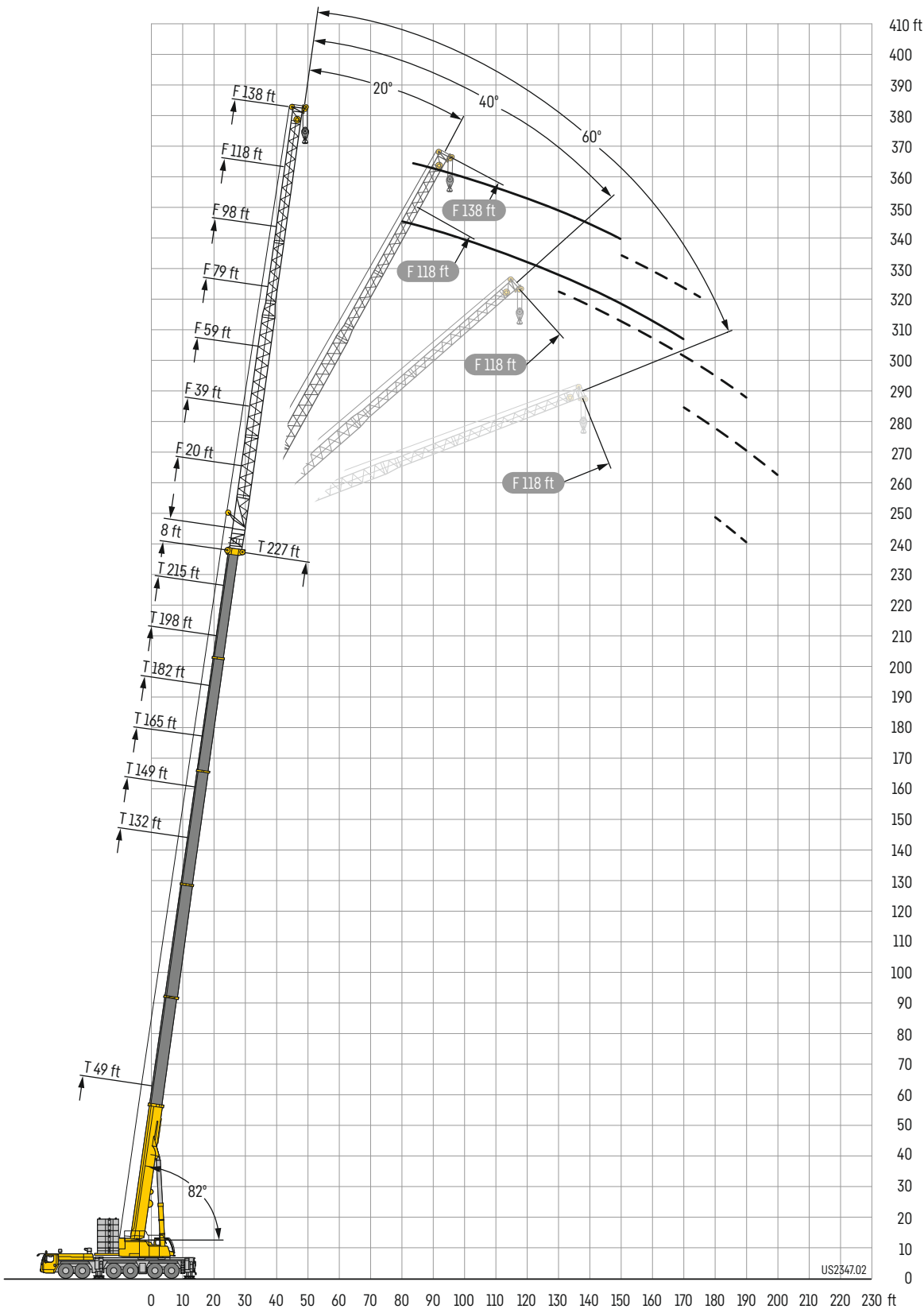
	99 ft	115 ft	132 ft	149 ft	165 ft	182 ft	198 ft	215 ft	227 ft	230 ft	
19	238.3		135.9								19
20	238.3	185.8	135.7								20
21	236.8	186.2	140.3								21
22	235.3	186.6	144.8								22
23	233.7	187	149.3								23
24	231.1	187.6	149.8								24
26	225.8	189	150.8								26
28	215.6	188.3	151.1	123.2							28
30	205	187	151.2	124.7	97.2						30
32	195.1	184.8	151.2	125.4	99.3						32
34	185.1	181.6	150.5	125.8	101.2						34
36	175.2	177.8	149.4	126.1	102.9						36
38	165.8	169	148.2	126	103.9	76.3					38
40	156.8	160.6	146.8	125.6	104.7	78.1	57.5				40
45	138.3	142.5	138.9	122.5	105.4	82.9	59.4	44.6			45
50	122.8	126.4	126.5	119	103.4	86.4	62.6	47	38.4	35.5	50
55	109	112.6	114.1	112.4	100.8	87.5	65.6	49.7	41.1	38.1	55
60	97.3	101	102.5	102.8	97.6	86.5	68.1	52.4	44.2	41.2	60
65	87.5	91.2	92.8	93.2	92.7	84.7	69.8	54.2	46.2	43.2	65
70	79.2	83	84.6	84.9	85.2	81.3	70.6	55.9	47.8	44.8	70
75	71.8	75.7	77.3	77.6	78	76.2	70.1	57.1	49.1	46.3	75
80	65.1	69.2	70.8	71.2	71.6	70.1	67.6	57.5	49.9	47.4	80
85	58.8	63.3	65.1	65.5	65.8	64.7	62.8	56.6	50	47.9	85
90	42.7	57.9	59.9	60.3	60.7	59.9	58.2	54.5	48.9	47	90
95		52.9	55	55.5	55.9	55.3	53.9	51.3	47.7	46.1	95
100		48	50.5	51.1	51.5	51.1	49.9	47.5	46	44.9	100
105			46.4	46.9	47.4	47	46.3	44	43.6	43.4	105
110			42.7	43.3	43.8	43.4	43	40.8	40.6	40.5	110
115			39.3	40	40.5	40.1	39.9	37.9	37.7	37.7	115
120			32.9	36.9	37.4	37.1	36.9	35.2	35.1	35.1	120
125				34	34.6	34.3	34.1	32.7	32.6	32.6	125
130				31.4	32	31.7	31.6	30.4	30.3	30.3	130
135				27.9	29.7	29.4	29.2	28.1	28.2	28.2	135
140					27.5	27.2	27	26	26.2	26.2	140
150						23.5	23.1	22.1	22.5	22.6	150
160							19.7	18.7	19.1	19.2	160
170							16.7	15.7	16.1	16.2	170
180							13.9	13	13.5	13.5	180
190							4.9	10.4	11	11	190
200								7.1	8.7	8.7	200
210										6.6	210

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Lifting heights

Hauteurs de levage

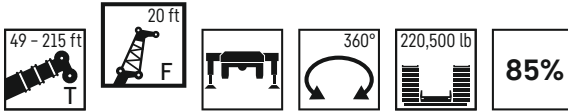
TF



Lifting capacities

Forces de levage

TF 20 ft



	49 ft + 8 ft*				132 ft + 8 ft*				149 ft + 8 ft*				165 ft + 8 ft*				182 ft + 8 ft*				198 ft + 8 ft*				215 ft + 8 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
11	99.3																												11
12	98.9																												12
13	98.1																												13
14	96.3																												14
15	94.3																												15
16	91.6																												16
17	89.1																												17
18	86.7	74.6																											18
20	81.9	72.4																											20
22	77.5	69	61																										22
24	73.4	65.9	59.9																										24
26	69.5	63	57.7	53.6	99.2																								26
28	66.3	60.4	55.6	53.2	98.5																								28
30	63.2	57.9	53.7	52.4	97.4																								30
32	60.3	55.7	51.9	50.9	95.5	75.9			79.8																				32
34	57.8	53.7	50.3	49.6	93.3	74.8			79.8																				34
36	55.3	51.8	48.7	48.3	90.7	73			79.8			65.5																	36
38	53.1	50.1	47.3	47.3	88.4	71.4	60.5		79.5	69.9		65.2				52.1													38
40	51	48.4	46	46.4	86	69.8	59.7		78.8	68.9		64.6				52													40
42	49.1	46.9	44.8	45.8	83.8	68.2	58.6	53.6	77.3	67.5	57.9	63.7				51.7													42
44	47.3	45.5	43.7	45.2	81.5	66.7	57.6	53.6	75.4	66.2	57.3	53.4	62.4	61.7		51.4				41.2									44
46	45.6	44.1	42.6	44.5	79.3	65.3	56.7	53.5	73.4	64.9	56.5	53.2	61	60.7		50.9				41.1									46
48	44.2	42.9	41.7	40.7	77.3	64	55.8	52.8	71.5	63.7	55.7	52.6	59.5	59.2		49.9				40.8									48
50	42.8	41.6	40.8	36.9	75.4	62.8	54.9	52.2	69.6	62.6	54.9	52	58.1	57.8	53.4	50.6	48.9	48.3		40.5	39.5				33				50
55	39.6	38.8	38.8		70.8	59.8	52.8	50.6	65.1	59.8	53	50.6	54.6	54.3	52.4	49.8	46.3	46.2	46.5	46.1	39.2	38.8	37.9		32.5	31.5			55
60	37	36.5	34.8		66.6	57	50.9		61	57.3	51.3	49.3	51.3	51.1	50.7	48.6	43.7	43.8	44.4	45	37.5	37.4	37.4		31.7	31.2			60
65					63	54.6	49.2		57.1	54.9	49.7	48.1	48.4	48.2	48.4	47.5	41.3	41.4	42	42.8	35.6	35.7	35.9	36.4	30.6	30.3	30.4		65
70					59.7	52.3	47.6		53.4	52.4	48.1		45.5	45.5	45.7	45.8	39	39.2	39.7	40.5	33.8	34.1	34.3	34.9	29.3	29.2	29.4	29.7	70
75					56.7	50.3	46.1		50	49.6	46.6		42.9	42.9	43.1		36.9	37.1	37.6	38.3	32	32.4	32.8	33.3	28	28	28.3	28.7	75
80					54	48.4	44.8		46.7	46.7	45.1		40.4	40.4	40.6		34.8	35.1	35.5		30.4	30.8	31.2	31.8	26.7	26.8	27.1	27.6	80
85					51.5	46.7	43.6		43.8	43.7	43.4		38	38.1	38.1		32.9	33.2	33.6		28.8	29.2	29.7	30.3	25.5	25.7	26	26.5	85
90					49.2	45.2	42.5		41	41.1	41.1		35.8	35.8	36		31.1	31.5	31.8		27.3	27.7	28.2		24.3	24.6	24.9	25.4	90
95					47.2	43.6	41.5		38.5	38.6	38.8		33.7	33.7	33.9		29.4	29.8	30.1		25.8	26.3	26.7		23.1	23.5	23.8		95
100					45.2	42.2			36.2	36.3	36.5		31.6	31.7	32		27.8	28.1	28.4		24.4	24.9	25.3		21.9	22.4	22.7		100
105					43.5	40.8			34	34.1	34.3		29.6	29.8	30.2		26.2	26.5	26.7		23.1	23.6	24		20.7	21.3	21.7		105
110					41.9	39.6			31.9	32.2	32.4		27.9	28.1	28.5		24.7	25.1	25.3		21.9	22.4	22.8		19.7	20.2	20.6		110
115					40.2	38.5			30	30.3			26.2	26.4	26.8		23.3	23.6	23.8		20.7	21.2	21.6		18.7	19.2	19.6		115
120					38.2	37.3			28.3	28.5			24.6	24.8	25.3		21.9	22.3	22.5		19.6	20.1	20.4		17.7	18.2	18.6		120
125					35.7	36			26.7	26.8			23.1	23.3			20.6	21	21.2		18.5	19	19.2		16.8	17.3	17.7		125
130					33.3	33.9			25.4	25.4			21.8	21.9			19.3	19.7	20		17.5	17.9	18.1		15.9	16.4	16.7		130
135					31.1				24.2	24.2			20.5	20.6			18.1	18.6			16.4	16.9	17.1		15	15.5	15.8		135
140					29.1				23	23			19.3	19.5			17	17.5			15.4	15.9	16.1		14.2	14.7	15		140
145					26.6				22	22			18.2	18.5			16	16.4			14.5	15			13.4	13.9	14.1		145
150									20.9				17.3	17.5			15	15.4			13.6	14.1			12.6	13.1	13.3		150
155									20				16.4	16.6			14.1	14.5			12.8	13.2			11.9	12.3	12.5		155
160													15.6				13.3	13.6			12	12.4			11.1	11.6			160
165													14.8				12.6	12.9			11.4	11.6			10.4	10.9			165
170													14				12	12.2			10.7	11			9.7	10.2			170
175													13.4				11.3				10.1	10.4			9.1	9.5			175
180																	10.7				9.5	9.8			8.4	8.8			180
185																	10.1				9	9.2			7.8	8.2			185
190																	9.6				8.5	8.7			7.3	7.6			190
195																					8				6.8	7.1			195
200																					7.6				6.3	6.6			200
205																					7.2				5.8				205
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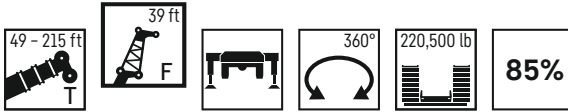
* adapter - pièce d'adaptateur

t_180_51105_00_000 / 51125_00_000 / 51145_00_000 / 51165_00_000

Lifting capacities

Forces de levage

TF 39 ft



	49 ft + 8 ft*				132 ft + 8 ft*				149 ft + 8 ft*				165 ft + 8 ft*				182 ft + 8 ft*				198 ft + 8 ft*				215 ft + 8 ft*				
	F 39 ft				F 39 ft				F 39 ft				F 39 ft				F 39 ft				F 39 ft				F 39 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
14	71.5																												14
15	71.2																												15
16	69.9																												16
17	68.4																												17
18	66.7																												18
20	63.5																												20
22	60.7																												22
24	58																												24
26	55.5																												26
28	53.1	45.4																											28
30	50.8	44.4																											30
32	48.6	42.7			69.4																								32
34	46.6	41.1			67.6																								34
36	44.6	39.6			65.9			62.8																					36
38	42.8	38.2	34		64.2			61.5				52.5																	38
40	41.1	36.9	33.5		62.6			60.1				52.5																	40
42	39.6	35.7	32.5		61			58.9				52.3																	42
44	38.2	34.5	31.6		59.6	45.4		57.6				52.1			41.5														44
46	36.9	33.4	30.8	27	58.2	44.6		56.4				51.8			41.4														46
48	35.7	32.5	30	27	56.8	43.7		55.3				51			41.2														48
50	34.5	31.6	29.3	27	55.5	42.8		54.2	42.3			50.1			41					32.8									50
55	31.8	29.4	27.6	26.9	52.4	40.8	33.8	51.6	40.7	33		47.8	39.4			39.9				32.4					26.1				55
60	29.4	27.5	26.1	26.6	49.4	38.9	32.6	49.2	38.9	32.6		45.2	38.1			38.3				31.8					25.8				60
65	27.4	25.9	24.8	26	46.5	37.2	31.5	46.8	37.3	31.6	27	42.9	36.7	31.1		36.4	35.1			30.7					25.3				65
70	25.7	24.5	23.8	25.2	44	35.6	30.5	44.6	35.9	30.6	27	40.6	35.4	30.3	27	34.7	34	29.4		29.5	29.3				24.6	23			70
75	24.3	23.4	23		41.8	34.2	29.6	42.4	34.5	29.7	27	38.5	34.1	29.5	27	32.9	32.8	28.8	27	28.2	28.2	26.6			23.8	22.5			75
80	23	22.4	21.4		39.6	32.8	28.7	40.4	33.2	28.9	27	36.5	33	28.7	27	31.3	31.6	28.1	26.9	27	27.1	26			23	21.8			80
85					37.8	31.6	27.9	38.7	32.1	28.1	27	34.5	31.9	28	27	29.7	30.2	27.5	26.6	25.7	25.9	25	25.1		22.1	21.1	20.3		85
90					36	30.5	27.2	36.9	31	27.4		32.8	30.9	27.4	26.7	28.2	28.7	26.9	26.2	24.5	24.9	24.1	24.3		21.2	20.4	19.7	19.7	90
95					34.4	29.4	26.5	35.2	30	26.8		31.1	29.9	26.8		26.7	27.3	26.3	25.8	23.3	23.8	23.3	23.4		20.4	19.7	19.1	19.1	95
100					33	28.5	25.8	33.4	29.1	26.2		29.4	28.8	26.2		25.4	26	25.7		22.1	22.7	22.4	22.6		19.5	19.1	18.5	18.6	100
105					31.6	27.6	25.3	31.7	28.2	25.6		27.9	27.7	25.7		24.1	24.7	25		21	21.7	21.6			18.6	18.4	17.9	18	105
110					30.4	26.7	24.7	30	27.4	25.1		26.3	26.4	25.2		22.8	23.4	23.9		20	20.6	20.7			17.7	17.7	17.4	17.5	110
115					29.2	26	24.2	28.4	26.7	24.6		24.8	25.1	24.6		21.7	22.2	22.7		19	19.6	19.8			16.9	17.1	16.9		115
120					28.2	25.2		26.8	25.9	24.2		23.4	23.8	23.8		20.6	21	21.5		18	18.6	18.9			16.1	16.4	16.4		120
125					27.1	24.6		25.3	25.1	23.8		22.1	22.5	22.8		19.4	19.9	20.3		17.1	17.7	18.1			15.3	15.7	15.8		125
130					26.3	24		24	24.2	23.5		20.8	21.3	21.6		18.4	18.8	19.2		16.2	16.8	17.2			14.5	15	15.2		130
135					25.4	23.5		22.7	23.1			19.6	20.1	20.5		17.3	17.8	18.1		15.4	15.9	16.3			13.7	14.3	14.6		135
140					24.6	23		21.4	22			18.5	19	19.4		16.3	16.8	17.1		14.5	15	15.4			13	13.7	14		140
145					23.9	22.5		20.2	20.9			17.5	17.9			15.3	15.8	16.2		13.7	14.2	14.6			12.3	13	13.3		145
150					23.3	22.2		19.1	19.7			16.4	16.9			14.4	14.9	15.2		12.9	13.4	13.8			11.7	12.3	12.7		150
155					22.7			18.1	18.6			15.5	15.9			13.5	14			12.2	12.6	13			11	11.7	12		155
160					22.1			17.3	17.6			14.6	15			12.7	13.2			11.4	11.8	12.2			10.4	11	11.3		160
165					20.8			16.5				13.7	14.1			11.9	12.3			10.7	11.1				9.8	10.4	10.7		165
170								15.7				12.9	13.2			11.1	11.5			10	10.4				9.2	9.7	10		170
175								15.1				12.3	12.5			10.4	10.8			9.3	9.7				8.6	9.1	9.4		175
180												11.6				9.8	10.1			8.7	9.1				8	8.6			180
185												11				9.3	9.5			8.2	8.5				7.5	8			185
190												10.5				8.7	8.9			7.8	8				6.9	7.5			190
195												10				8.2				7.3	7.6				6.4	7			195
200																7.8				6.9	7.2				5.9	6.5			200
205																7.4				6.5	6.8				5.4	6			205
210																7				6.2					5	5.6			210
215																				5.8					4.5	5.1			215
220																				5.5					4.1	4.6			220
225																				5.2					3.7				225
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235																									2.9				235

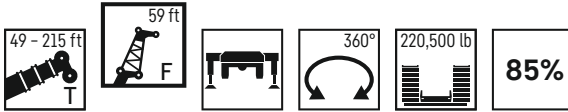
* adapter - pièce d'adaptateur

t_180_51205_00_000 / 51225_00_000 / 51245_00_000 / 51265_00_000

Lifting capacities

Forces de levage

TF 59 ft



	49 ft + 8 ft*				132 ft + 8 ft*				149 ft + 8 ft*				165 ft + 8 ft*				182 ft + 8 ft*				198 ft + 8 ft*				215 ft + 8 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
18	52.4																												18
20	51.5																												20
22	49.4																												22
24	47.5																												24
26	45.5																												26
28	43.8																												28
30	42.2																												30
32	40.6																												32
34	39.1																												34
36	37.7				51.3																								36
38	36.3	30.8			50.1				47.2																				38
40	35	30.3			48.9				46.7																				40
42	33.8	29.4			47.7				45.7																				42
44	32.6	28.5			46.6				44.8				41.4																44
46	31.4	27.5			45.5				43.9				40.9																46
48	30.4	26.7			44.5				43				40.2																48
50	29.3	25.9			43.5				42.2				39.6				34				25.6								50
55	27	24.1	22.4		41.2	30.4			40.2	29.5			38				33.7				25.6				20.3				55
60	24.9	22.4	21.3		39	29.4			38.3	29.2			36.5				33.1				25.4				20.3				60
65	23.1	21	20.1	15.8	37	28			36.6	28			35	27			31.9				25.1				20.1				65
70	21.6	19.7	19	15.5	35	26.8	22.6		35	26.9			33.7	26.7			30.6	25.5			24.5				19.8				70
75	20.2	18.6	18.1	15.3	33.2	25.7	22.1	16	33.4	25.8	21.9		32.4	26.1	21.2		29.3	25			23.8	22.8			19.3				75
80	18.9	17.6	17.3	15.2	31.5	24.7	21.4	15.9	31.9	24.8	21.4		31.2	25.2	21		27.9	24.2			23.1	22.5			18.9				80
85	17.8	16.7	16.5	15	29.9	23.7	20.7	15.7	30.5	23.9	20.7	15.7	30	24.3	20.5		26.6	23.4	20		22.3	21.9			18.4	17.4			85
90	16.8	15.9	15.9		28.5	22.8	20.1	15.6	29.2	23.1	20.2	15.6	28.8	23.5	20	15.5	25.4	22.7	19.5	15.4	21.5	21.2			17.8	16.9			90
95	16	15.3			27.2	22	19.5		27.9	22.3	19.7	15.4	27.6	22.8	19.5	15.4	24.2	22.1	19.1	15.4	20.6	20.4	18.4	15.2	17.3	16.3	15		95
100					26	21.2	19		26.6	21.5	19.2	15.4	26.5	22.1	19.1	15.4	23	21.5	18.7	15.3	19.8	19.7	18	15.2	16.7	15.8	14.9		100
105					24.8	20.5	18.5		25.6	20.8	18.7		25.4	21.4	18.6	15.3	21.9	20.9	18.3	15.2	18.9	19	17.7	15.2	16.1	15.3	14.6		105
110					23.8	19.8	18.1		24.6	20.2	18.3		24.3	20.8	18.2	15.2	20.9	20.3	17.9	15.2	18.1	18.3	17.4	15.2	15.5	14.8	14.2	13.9	110
115					22.8	19.2	17.6		23.6	19.6	17.9		23.1	20.2	17.9		19.8	19.8	17.6	15.2	17.2	17.6	17	15.2	14.9	14.3	13.8	13.7	115
120					21.9	18.6	17.2		22.7	19	17.5		22	19.6	17.5		18.8	19.2	17.3		16.4	16.9	16.6	15.2	14.3	13.9	13.4	13.4	120
125					21	18	16.9		21.9	18.5	17.1		20.8	19.1	17.2		17.9	18.5	17		15.6	16.3	16.1		13.7	13.4	13	13.1	125
130					20.3	17.5	16.5		21.1	18	16.8		19.7	18.6	16.9		17	17.7	16.7		14.9	15.6	15.6		13.1	13	12.6	12.7	130
135					19.6	17	16.2		20.4	17.5	16.5		18.7	18.1	16.6		16.2	16.9	16.4		14.1	14.9	15		12.5	12.6	12.2		135
140					18.9	16.6			19.6	17.1	16.2		17.6	17.6	16.3		15.3	16	16		13.5	14.2	14.5		11.9	12.2	11.9		140
145					18.2	16.2			18.9	16.7	16		16.7	17	16		14.4	15.2	15.6		12.8	13.5	13.9		11.3	11.7	11.6		145
150					17.6	15.8			18.2	16.3	15.7		15.7	16.3	15.8		13.7	14.4	14.9		12.1	12.8	13.3		10.8	11.3	11.2		150
155					17	15.5			17.4	15.9			14.8	15.6	15.5		12.9	13.6	14.1		11.4	12.1	12.6		10.2	10.8	10.9		155
160					16.5	15.2			16.6	15.6			14	14.8	15		12.1	12.9	13.3		10.8	11.5	12		9.6	10.3	10.5		160
165					16	14.9			15.8	15.3			13.2	14			11.3	12.1	12.6		10.2	10.8	11.3		9.1	9.8	10.1		165
170					15.6	14.6			14.9	14.9			12.4	13.2			10.7	11.5	11.8		9.6	10.2	10.6		8.6	9.3	9.7		170
175					15.2				14.1	14.4			11.7	12.4			10	10.8			9	9.6	10		8.1	8.7	9.2		175
180					14.8				13.3	13.7			11	11.7			9.3	10.1			8.5	9	9.4		7.6	8.2	8.6		180
185					14				12.7				10.3	11			8.7	9.5			7.9	8.4			7.1	7.8	8.1		185
190									12.1				9.6	10.3			8.2	8.8			7.4	7.9			6.6	7.3	7.6		190
195									11.6				9.1	9.7			7.7	8.2			6.9	7.4			6.2	6.8	7.2		195
200													8.6				7.3	7.7			6.5	6.9			5.7	6.3			200
205													8.2				6.9	7.2			6.1	6.4			5.3	5.9			205
210													7.7				6.5	6.7			5.8	6			4.8	5.4			210
215													7.4				6.2				5.4	5.7			4.4	5			215
220																	5.8				5.1	5.4			4	4.5			220
225																	5.5				4.8	5			3.6	4.1			225
230																	5.2				4.5				3.2	3.6			230
235																					4.2				2.8	3.2			235
240																					3.8					2.8			240

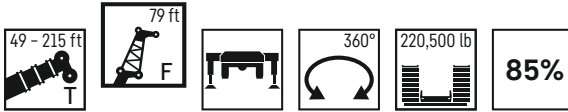
* adapter - pièce d'adaptateur

t_180_51305_00_000 / 51325_00_000 / 51345_00_000 / 51365_00_000

Lifting capacities

Forces de levage

TF 79 ft



	49 ft + 8 ft*				132 ft + 8 ft*				149 ft + 8 ft*				165 ft + 8 ft*				182 ft + 8 ft*				198 ft + 8 ft*				215 ft + 8 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
22	39.6																												22
24	38.8																												24
26	37.6																												26
28	36.2																												28
30	34.9																												30
32	33.7																												32
34	32.6																												34
36	31.5																												36
38	30.5				39.5																								38
40	29.5				38.9																								40
42	28.6				38				35.9																				42
44	27.7				37.2				35.5																				44
46	26.8				36.3				34.8																				46
48	26				35.5				34.2																				48
50	25.2	22.4			34.8				33.5				31.1																50
55	23.2	21.2			32.9				31.9				30				26.5				21.2								55
60	21.4	19.6			31.2				30.4				28.8				26.1				21.1								60
65	19.8	18.3			29.7	22.9			29.1				27.7				25.6				21				16.5				65
70	18.4	17.1			28.3	22			27.8	21.6			26.6				25				20.6				16.3				70
75	17.1	16	14.6		26.9	21			26.6	21			25.6	20.2			24.3				20.2				16				75
80	16	15.1	14		25.6	20.1			25.5	20.1			24.7	19.7			23.6				19.7				15.7				80
85	15	14.2	13.3	9.4	24.4	19.3	15.3		24.5	19.3			23.7	19			22.8	18.3			19.1				15.3				85
90	14.1	13.4	12.6	9.3	23.2	18.5	15		23.4	18.6	14.9		22.9	18.3			22.1	17.7			18.5	16.5			14.8				90
95	13.3	12.7	12.1	9.1	22	17.8	14.6	9.6	22.4	17.9	14.6		22	17.7	14.5			21.3	17.1			17.8	16.1			14.4	13		95
100	12.5	12.1	11.5	9.1	21	17.1	14.3	9.5	21.4	17.2	14.3	9.5	21.2	17.1	14.2	9.4	20.5	16.6	13.8		17.2	15.7			14	12.7			100
105	11.8	11.4	11.1	9	20	16.4	13.9	9.4	20.5	16.6	14	9.4	20.4	16.5	13.9	9.4	19.6	16.1	13.6		16.5	15.3			13.6	12.4			105
110	11.2	10.9	10.7		19.1	15.8	13.5	9.3	19.6	16.1	13.6	9.3	19.7	16	13.5	9.3	18.7	15.6	13.3	9.2	15.9	14.9	12.8		13.2	12			110
115	10.7	10.5			18.3	15.3	13.1		18.8	15.6	13.2	9.2	18.9	15.5	13.2	9.2	17.9	15.2	13	9.2	15.2	14.5	12.5	9.1	12.7	11.7	10.3		115
120					17.5	14.8	12.8		18.1	15.1	12.9	9.2	18.2	15	12.9	9.1	17.1	14.7	12.7	9.1	14.6	14.1	12.3	9.1	12.2	11.3	10.1		120
125					16.8	14.3	12.5		17.4	14.6	12.6		17.5	14.6	12.6	9.1	16.3	14.3	12.4	9.1	13.9	13.7	12	9	11.8	11	9.9		125
130					16.1	13.8	12.2		16.6	14.1	12.3		16.9	14.2	12.3	9.1	15.5	13.9	12.1	9	13.3	13.4	11.8	9	11.3	10.6	9.7	8.9	130
135					15.4	13.4	11.9		16	13.7	12		16.3	13.8	12		14.7	13.6	11.9	9	12.7	13	11.6	9	10.9	10.3	9.5	8.9	135
140					14.8	12.9	11.6		15.5	13.3	11.8		15.7	13.4	11.8		14	13.2	11.7		12	12.6	11.4	9	10.4	9.9	9.3	8.9	140
145					14.3	12.5	11.4		14.9	12.9	11.5		15.1	13	11.6		13.4	12.9	11.5		11.4	12.1	11.2		9.9	9.6	9.1	8.9	145
150					13.7	12.2	11.1		14.4	12.5	11.3		14.4	12.7	11.4		12.7	12.6	11.3		10.8	11.6	11.1		9.4	9.3	8.9	8.9	150
155					13.2	11.8	10.9		13.9	12.2	11.1		13.7	12.4	11.2		12	12.2	11.1		10.3	11.1	10.9		9	9	8.7		155
160					12.8	11.5			13.4	11.9	10.9		13	12.1	11		11.4	11.8	10.9		9.7	10.6	10.7		8.5	8.7	8.4		160
165					12.3	11.2			13	11.6	10.8		12.3	11.8	10.8		10.7	11.3	10.8		9.2	10.1	10.4		8	8.4	8.2		165
170					11.9	10.9			12.6	11.3	10.6		11.7	11.5	10.7		10.1	10.8	10.6		8.7	9.5	10		7.6	8.1	7.9		170
175					11.5	10.7			12.2	11			11	11.2	10.5		9.5	10.2	10.4		8.1	9	9.5		7.1	7.8	7.7		175
180					11.2	10.5			11.8	10.8			10.3	10.8	10.4		8.9	9.6	10		7.6	8.5	9		6.6	7.4	7.5		180
185					10.8	10.3			11.4	10.6			9.7	10.4			8.4	9.1	9.5		7.1	8	8.5		6.2	7	7.3		185
190					10.5	10.1			11	10.4			9.1	9.9			7.8	8.5	9		6.6	7.5	8		5.8	6.6	7.1		190
195					10.2				10.5	10.2			8.5	9.4			7.3	8			6.2	7	7.5		5.4	6.2	6.8		195
200					10				10	10.1			8	8.8			6.8	7.5			5.7	6.5	7		5	5.8	6.4		200
205								9.4					7.5	8.2			6.3	7			5.3	6.1			4.6	5.4	6		205
210								9					7.1	7.6			5.9	6.5			5	5.6			4.2	4.9	5.5		210
215								8.6					6.7	7.2			5.5	6			4.6	5.1			3.8	4.5	5		215
220													6.4				5.2	5.6			4.3	4.8			3.4	4.1			220
225													6.1				4.9	5.2			4	4.4			3	3.7			225
230													5.7				4.6	4.9			3.6	4				3.3			230
235													5.5				4.2				3.3	3.7				2.8			235
240																	3.9				3	3.4							240
245																	3.6					3							245

* adapter - pièce d'adaptateur

t_180_51405_00_000 / 51425_00_000 / 51445_00_000 / 51465_00_000

Lifting capacities

Forces de levage

TF 98 ft



	49 ft + 8 ft*				132 ft + 8 ft*				149 ft + 8 ft*				165 ft + 8 ft*				182 ft + 8 ft*				198 ft + 8 ft*				215 ft + 8 ft*					
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°		
26	27																												26	
28	27																												28	
30	27																												30	
32	27																												32	
34	27																												34	
36	26.9																												36	
38	26.4																												38	
40	25.7																												40	
42	25				27																								42	
44	24.2				27				27																				44	
46	23.5				27				27																				46	
48	22.9				27				26.9																				48	
50	22.2				27				26.9				25																50	
55	20.7				26.8				26.3				24.5				21.3												55	
60	19.3	16.5			26.2				25.4				23.8				21.1												60	
65	17.9	15.7			25.1				24.3				22.9				20.7				17.2								65	
70	16.6	14.8			23.9				23.3				22				20.2				17					13.1			70	
75	15.4	13.9			22.8	16.5			22.3				21.2				19.6				16.8					12.9			75	
80	14.4	13			21.8	16.2			21.4				20.4				19				16.6					12.8			80	
85	13.4	12.2	10.2		20.8	15.6			20.5	15.5			19.7				18.4				16.2					12.5			85	
90	12.5	11.4	9.8		19.9	15			19.7	15			19	14.6			17.8				15.8					12.2			90	
95	11.7	10.8	9.3		19	14.4			18.9	14.4			18.3	14.2			17.3	13.5			15.3					11.9			95	
100	11	10.1	9		18	13.8	10.2		18.2	13.9			17.7	13.7			16.7	13.2			14.8	12.1				11.5			100	
105	10.4	9.6	8.6	6	17.2	13.3	10		17.4	13.4			17.1	13.2			16.2	12.8			14.3	12				11.1			105	
110	9.7	9.1	8.3	5.9	16.4	12.8	9.7		16.7	12.9	9.7		16.5	12.7	9.6		15.7	12.3			13.9	11.7				10.8	9.4		110	
115	9.2	8.6	8	5.9	15.6	12.3	9.5	6.1	16	12.4	9.5		15.9	12.3	9.4		15.2	11.9	9.2		13.4	11.3				10.5	9.1		115	
120	8.7	8.2	7.8	5.8	14.9	11.8	9.2	6.1	15.3	12	9.3	6.1	15.3	11.9	9.2	6	14.7	11.6	9.1		12.8	11				10.1	8.8		120	
125	8.2	7.8	7.6	5.8	14.2	11.4	9	6	14.7	11.5	9.1	6	14.7	11.5	9	6	14.2	11.2	8.9		12.3	10.7				9.8	8.6		125	
130	7.8	7.5	7.4		13.6	10.9	8.8	6	14.1	11.1	8.9	6	14.1	11.1	8.8	6	13.7	10.9	8.8	5.9	11.8	10.4	8.6			9.5	8.3		130	
135	7.5	7.2			13	10.6	8.6		13.5	10.8	8.7	5.9	13.6	10.8	8.7	5.9	13.1	10.6	8.6	5.9	11.3	10.2	8.4	5.8		9.2	8.1	7.2		135
140					12.5	10.2	8.4		12.9	10.4	8.5	5.9	13.1	10.4	8.5	5.9	12.6	10.3	8.5	5.8	10.8	9.9	8.3	5.8		8.8	7.9	7		140
145					11.9	9.8	8.3		12.4	10.1	8.4		12.6	10.1	8.4	5.8	12.1	10	8.3	5.8	10.3	9.6	8.2	5.8		8.5	7.7	6.9		145
150					11.4	9.5	8.1		12	9.7	8.2		12.1	9.8	8.2	5.8	11.5	9.7	8.2	5.8	9.7	9.4	8.1	5.8		8.2	7.5	6.8	5.7	150
155					11	9.2	8		11.5	9.4	8.1		11.7	9.5	8.1		11	9.4	8.1	5.8	9.2	9.1	8	5.8		7.8	7.3	6.6	5.7	155
160					10.6	8.9	7.9		11.1	9.2	8		11.3	9.3	8		10.4	9.2	8		8.7	8.9	7.9	5.8		7.4	7.1	6.5	5.7	160
165					10.2	8.6	7.8		10.6	8.9	7.9		10.9	9	7.9		9.9	8.9	7.8		8.2	8.6	7.7			7	6.9	6.4	5.7	165
170					9.7	8.4	7.6		10.3	8.6	7.8		10.5	8.7	7.8		9.3	8.7	7.7		7.8	8.4	7.6			6.6	6.7	6.3	5.7	170
175					9.4	8.1	7.5		9.9	8.4	7.6		10.2	8.5	7.7		8.8	8.5	7.6		7.3	8.1	7.5			6.2	6.5	6.2		175
180					9	7.9			9.6	8.2	7.5		9.7	8.3	7.6		8.3	8.3	7.5		6.9	7.8	7.4			5.8	6.3	6.1		180
185					8.7	7.7			9.2	8	7.4		9.3	8.1	7.5		7.8	8	7.4		6.4	7.4	7.3			5.4	6.1	5.9		185
190					8.4	7.5			8.9	7.8	7.3		8.7	7.9	7.4		7.3	7.8	7.4		6	7	7.3			5	5.9	5.8		190
195					8.1	7.4			8.6	7.6			8.2	7.7	7.3		6.8	7.5	7.3		5.5	6.6	7.1			4.7	5.7	5.7		195
200					7.9	7.2			8.4	7.5			7.8	7.6	7.2		6.4	7.1	7.2		5.1	6.1	6.8			4.3	5.3	5.5		200
205					7.6	7.1			8.1	7.3			7.3	7.4			5.9	6.8	7		4.7	5.7	6.5			3.9	4.9	5.4		205
210					7.4				7.9	7.2			6.9	7.2			5.4	6.3			4.3	5.3	6			3.6	4.5	5.1		210
215					7.3				7.7	7.1			6.5	6.9			5	5.9			3.9	4.9	5.6			3.2	4.2	4.8		215
220					7.1				7.4	7			6.1	6.6			4.6	5.4			3.6	4.5	5.1				3.8	4.5		220
225									7.2				5.7	6.2			4.2	5			3.3	4.1					3.4	4.1		225
230									6.9				5.3	5.8			3.9	4.5				3.7						3.7		230
235									6.6				4.9	5.4			3.6	4.1				3.3						3.3		235
240													4.6				3.3	3.7				2.9								240
245													4.4				3	3.4												245
250													4.1					3.1												250
255													3.8																	255

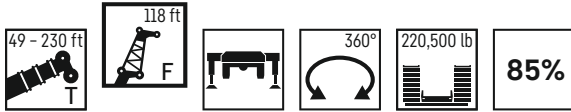
* adapter - pièce d'adaptateur

t_180_51505_00_000 / 51525_00_000 / 51545_00_000 / 51565_00_000

Lifting capacities

Forces de levage

TF 118 ft



	49 ft + 8 ft*				132 ft + 8 ft*				149 ft + 8 ft*				165 ft + 8 ft*				182 ft + 8 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
28	24.2																				28
30	24																				30
32	23.6																				32
34	23.1																				34
36	22.4																				36
38	21.9																				38
40	21.3																				40
42	20.8																				42
44	20.3				24.1																44
46	19.8				23.9																46
48	19.3				23.6																48
50	18.8				23.2				21.7												50
55	17.7				22.2				21.2				19.3								55
60	16.6				21.3				20.4				19								60
65	15.6				20.4				19.6				18.3				16.6				65
70	14.5	12			19.6				18.9				17.7				16.2				70
75	13.5	11.5			18.8				18.2				17.2				15.8				75
80	12.6	10.9			18				17.5				16.6				15.3				80
85	11.7	10.2			17.3				16.9				16				14.9				85
90	10.9	9.6			16.5	11.8			16.2				15.5				14.4				90
95	10.2	9			15.8	11.4			15.6	11.3			15				14				95
100	9.5	8.5	6.9		15.1	11			15	10.9			14.4	10.6			13.6				100
105	8.9	8.1	6.7		14.4	10.5			14.4	10.5			14	10.3			13.1				105
110	8.3	7.7	6.4		13.8	10.1			13.8	10.1			13.5	9.9			12.7	9.5			110
115	7.9	7.3	6.2		13.1	9.7	6.9		13.2	9.7			13	9.5			12.3	9.2			115
120	7.4	6.9	6	3.4	12.5	9.3	6.9		12.7	9.4	6.7		12.5	9.2			11.9	8.9			120
125	7	6.6	5.8	3.3	11.9	9	6.7		12.1	9	6.7		12	8.9			11.6	8.6			125
130	6.7	6.3	5.6	3.2	11.4	8.6	6.5		11.6	8.7	6.5		11.6	8.6	6.5		11.2	8.3			130
135	6.3	6	5.4	3.2	10.8	8.3	6.3	3.6	11.1	8.4	6.4		11.1	8.3	6.3		10.8	8.1	6.2		135
140	6	5.7	5.3	3.2	10.3	8.1	6.2	3.6	10.7	8.1	6.2	3.6	10.7	8.1	6.2		10.4	7.9	6.1		140
145	5.7	5.5	5.2	3.1	9.8	7.8	6.1	3.6	10.2	7.9	6.1	3.6	10.2	7.8	6.1	3.6	10	7.6	6		145
150	5.5	5.3	5.2		9.4	7.5	5.9	3.6	9.8	7.6	6	3.6	9.9	7.6	6	3.6	9.6	7.4	5.9	3.6	150
155	5.2	5.1			9	7.3	5.8		9.3	7.4	5.8	3.6	9.5	7.4	5.9	3.6	9.3	7.3	5.8	3.6	155
160					8.6	7.1	5.7		9	7.2	5.7	3.6	9.1	7.2	5.7	3.6	8.9	7.1	5.7	3.6	160
165					8.2	6.9	5.6		8.6	7	5.6		8.8	7	5.7	3.6	8.5	6.9	5.6	3.6	165
170					7.9	6.7	5.5		8.3	6.8	5.5		8.4	6.9	5.6	3.6	8.2	6.8	5.5	3.6	170
175					7.6	6.4	5.4		7.9	6.6	5.5		8.1	6.7	5.5		7.8	6.6	5.5	3.6	175
180					7.3	6.3	5.3		7.7	6.4	5.4		7.9	6.5	5.4		7.4	6.5	5.4		180
185					7.1	6.1	5.3		7.4	6.3	5.3		7.6	6.4	5.3		7	6.3	5.3		185
190					6.8	5.9	5.2		7.2	6.1	5.3		7.3	6.2	5.3		6.6	6.2	5.3		190
195					6.6	5.7	5.2		6.9	5.9	5.2		7.1	6	5.2		6.2	6.1	5.2		195
200					6.4	5.6			6.7	5.8	5.2		6.8	5.9	5.2		5.8	5.9	5.2		200
205					6.1	5.5			6.5	5.6	5.2		6.5	5.8	5.2		5.3	5.7	5.1		205
210					5.9	5.3			6.3	5.5			6.2	5.6	5.1		5	5.5	5.1		210
215					5.8	5.2			6.1	5.4			6	5.5	5.1		4.6	5.3	5.1		215
220					5.6	5.1			5.9	5.3			5.6	5.4	5.1		4.2	5.1	5.1		220
225					5.4	5			5.7	5.2			5.3	5.3			3.8	4.8	5		225
230					5.3				5.6	5.1			4.9	5.2			3.4	4.4			230
235					5.1				5.4	5			4.5	5			3	4			235
240					5				5.3	4.9			4.2	4.8				3.6			240
245									5.2				3.8	4.5				3.2			245
250									5				3.5	4.1							250
255									4.9				3.2	3.7							255
260													2.9								260

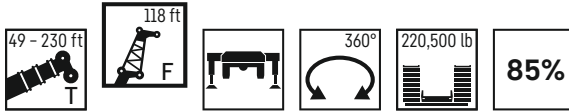
* adapter - pièce d'adaptateur

t_180_51605_00_000 / 51625_00_000 / 51645_00_000 / 51665_00_000

Lifting capacities

Forces de levage

TF 118 ft



	198 ft + 8 ft*				215 ft + 8 ft*				227 ft + 8 ft*				230 ft + 8 ft*	
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	
70	13.7													70
75	13.5				9.6									75
80	13.3				9.5				6.3				5.5	80
85	13.1				9.4				6.4				5.5	85
90	12.8				9.3				6.4				5.5	90
95	12.5				9.2				6.4				5.5	95
100	12.2				9				6.3				5.5	100
105	11.9				8.9				6.2				5.5	105
110	11.6				8.8				6.1				5.4	110
115	11.3	8.5			8.5				6				5.4	115
120	10.9	8.3			8.2	6.9			5.9				5.3	120
125	10.6	8.1			8	6.8			5.7				5.3	125
130	10.2	7.8			7.7	6.6			5.6	6			5.2	130
135	9.8	7.6			7.4	6.5			5.3	5.8			5	135
140	9.4	7.5	5.9		7.2	6.3			5.1	5.7			4.8	140
145	9	7.3	5.9		6.9	6.1			4.8	5.5			4.5	145
150	8.6	7.1	5.8		6.7	5.9			4.4	5.4			4.2	150
155	8.2	7	5.7		6.4	5.8			4.1	5.1			3.8	155
160	7.7	6.8	5.6	3.5	6.2	5.6	5		3.7	4.9			3.5	160
165	7.3	6.7	5.5	3.5	5.9	5.5	4.8		3.2	4.6			3.1	165
170	6.9	6.6	5.5	3.6	5.6	5.3	4.7		2.8	4.3	4.3		2.7	170
175	6.5	6.4	5.4	3.6	5.3	5.2	4.6	3.6		4	4.2			175
180	6.1	6.3	5.3	3.6	5	5.1	4.5	3.6		3.6	4.1	3.6		180
185	5.7	6.1	5.3		4.7	4.9	4.4	3.6		3.2	4	3.6		185
190	5.3	6	5.2		4.3	4.8	4.3	3.6		2.8	3.9	3.6		190
195	4.9	5.8	5.2		4	4.6	4.3				3.6			195
200	4.5	5.6	5.1		3.6	4.4	4.2				3.3			200
205	4.1	5.3	5.1		3.3	4.2	4.1							205
210	3.8	4.9	5			4	4							210
215	3.4	4.6	4.9			3.8	4							215
220	3	4.2	4.8			3.4	3.8							220
225		3.8	4.5			3.1	3.7							225
230		3.4	4.2				3.5							230
235		3.1	3.8				3.2							235
240			3.4				2.8							240

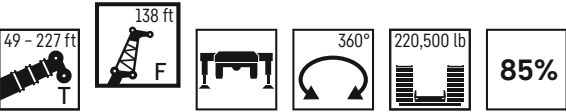
* adapter - pièce d'adaptateur

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Lifting capacities

Forces de levage

TF 138 ft



	49 ft + 8 ft*			132 ft + 8 ft*			149 ft + 8 ft*			165 ft + 8 ft*			182 ft + 8 ft*			198 ft + 8 ft*			215 ft + 8 ft*		227 ft + 8 ft*			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	F 138 ft			0°	20°	40°	0°	20°	40°	0°	20°	0°	20°		
32	18.7																						32	
34	18.6																						34	
36	18.4																						36	
38	17.9																						38	
40	17.5																						40	
42	17.1																						42	
44	16.6																						44	
46	16.2																						46	
48	15.9																						48	
50	15.5				18.5																		50	
55	14.6				17.9			16.8															55	
60	13.8				17.2			16.4															60	
65	13				16.4			15.7			14.6												65	
70	12.3				15.8			15.1			14.1		12.8										70	
75	11.5				15.1			14.5			13.7		12.5			10.8							75	
80	10.8				14.5			14			13.2		12.1			10.7							80	
85	10.1	8.4			13.9			13.5			12.8		11.7			10.5			7.1		3.6		85	
90	9.5	7.9			13.4			13			12.3		11.4			10.2			7		3.6		90	
95	8.9	7.5			12.9			12.5			11.9		11.1			9.9			6.9		3.5		95	
100	8.3	7.1			12.3	8.6		12.1	8.3		11.6		10.8			9.6			6.8		3.5		100	
105	7.8	6.7			11.8	8.3		11.6	8.2		11.2		10.4			9.4			6.7		3.5		105	
110	7.3	6.3			11.3	7.9		11.2	7.9		10.8	7.6	10.1			9.1			6.6		3.5		110	
115	6.9	6	4.6	10.8	7.6			10.7	7.6		10.4	7.4		9.8	6.9		8.8			6.5		3.5	115	
120	6.5	5.7	4.5	10.3	7.4			10.3	7.3		10	7.2		9.5	6.9		8.6			6.4		3.5	120	
125	6.1	5.4	4.3	9.8	7.1			9.9	7		9.7	6.9		9.2	6.7		8.3			6.2		3.4	125	
130	5.8	5.2	4	9.4	6.8			9.5	6.8		9.3	6.7		8.9	6.5		8.1	6.1		6		3.4	130	
135	5.5	4.9	3.8	9	6.6	4.8		9.1	6.6		9	6.5		8.5	6.3		7.8	5.9		5.8		3.3	135	
140	5.2	4.7	3.6	8.6	6.4	4.7		8.7	6.4	4.6	8.6	6.3	4.5	8.2	6.1		7.6	5.8		5.7	4.8	3.2	140	
145	4.9	4.5	3.5	8.2	6.1	4.5		8.4	6.2	4.5	8.3	6.1	4.5	7.9	5.9		7.4	5.6		5.5	4.6	3.1	145	
150	4.6	4.3	3.3	7.8	5.9	4.4		8	6	4.4	8	5.9	4.4	7.7	5.7		7.2	5.5		5.3	4.5	2.9	3.7	150
155	4.4	4	3.2	7.5	5.7	4.3		7.7	5.8	4.3	7.7	5.7	4.3	7.5	5.6	4.2	6.9	5.3		5	4.3		3.6	155
160	4.2	3.8	3.1	7.2	5.5	4.2		7.4	5.6	4.2	7.4	5.6	4.2	7.2	5.4	4.1	6.7	5.2		4.8	4.2		3.4	160
165	3.9	3.6	3.1	6.9	5.4	4.1		7.1	5.4	4.1	7.2	5.4	4.1	7	5.3	4	6.3	5.1		4.6	4.1		3.3	165
170	3.8	3.5	3	6.6	5.2	4		6.8	5.3	4	6.9	5.3	4	6.7	5.1	3.9	6	4.9	3.9	4.4	3.9		3.2	170
175	3.6	3.4		6.3	5	3.9		6.6	5.1	3.9	6.7	5.1	3.9	6.5	5	3.9	5.7	4.8	3.8	4.2	3.8		3	175
180				6.1	4.9	3.8		6.3	5	3.8	6.5	5	3.8	6.2	4.9	3.8	5.3	4.7	3.7	4	3.7			180
185				5.9	4.8	3.7		6.1	4.8	3.7	6.2	4.8	3.7	6	4.8	3.7	5	4.6	3.6	3.8	3.6			185
190				5.6	4.6	3.6		5.9	4.7	3.7	6	4.7	3.7	5.7	4.6	3.7	4.6	4.5	3.6	3.5	3.4			190
195				5.4	4.5	3.6		5.7	4.6	3.6	5.8	4.6	3.6	5.5	4.5	3.6	4.3	4.4	3.5	3.2	3.3			195
200				5.2	4.4	3.5		5.5	4.4	3.5	5.6	4.5	3.6	5.1	4.4	3.5	3.9	4.3	3.5	2.8	3.2			200
205				5	4.2	3.5		5.3	4.3	3.5	5.4	4.4	3.5	4.8	4.3	3.5	3.6	4.2	3.4		3			205
210				4.8	4.1	3.4		5.1	4.2	3.4	5.2	4.3	3.5	4.4	4.2	3.4	3.2	4.1	3.4		2.9			210
215				4.6	4	3.4		4.9	4.1	3.4	5	4.2	3.4	4	4.1	3.4	2.8	4	3.4		2.7			215
220				4.5	3.9			4.7	4	3.4	4.8	4.1	3.4	3.7	4	3.4		3.8	3.3					220
225				4.3	3.8			4.6	3.9	3.4	4.5	4	3.3	3.3	3.9	3.3		3.5	3.3					225
230				4.1	3.7			4.4	3.8		4.3	3.9	3.3		3.7	3.3		3.1	3.3					230
235				4	3.6			4.3	3.7		4.1	3.8	3.3		3.6	3.3		2.8	3.2					235
240				3.9	3.5			4.1	3.6		3.8	3.7	3.3		3.4	3.3			3.1					240
245				3.7	3.4			4	3.6		3.4	3.6			3.1	3.3			2.9					245
250				3.6				3.9	3.5		3.1	3.5												250
255				3.5				3.8	3.4		2.8	3.4												255
260				3.4				3.6	3.4			3.2												260
265								3.5				2.9												265
270								3.4																270
275								3.3																275

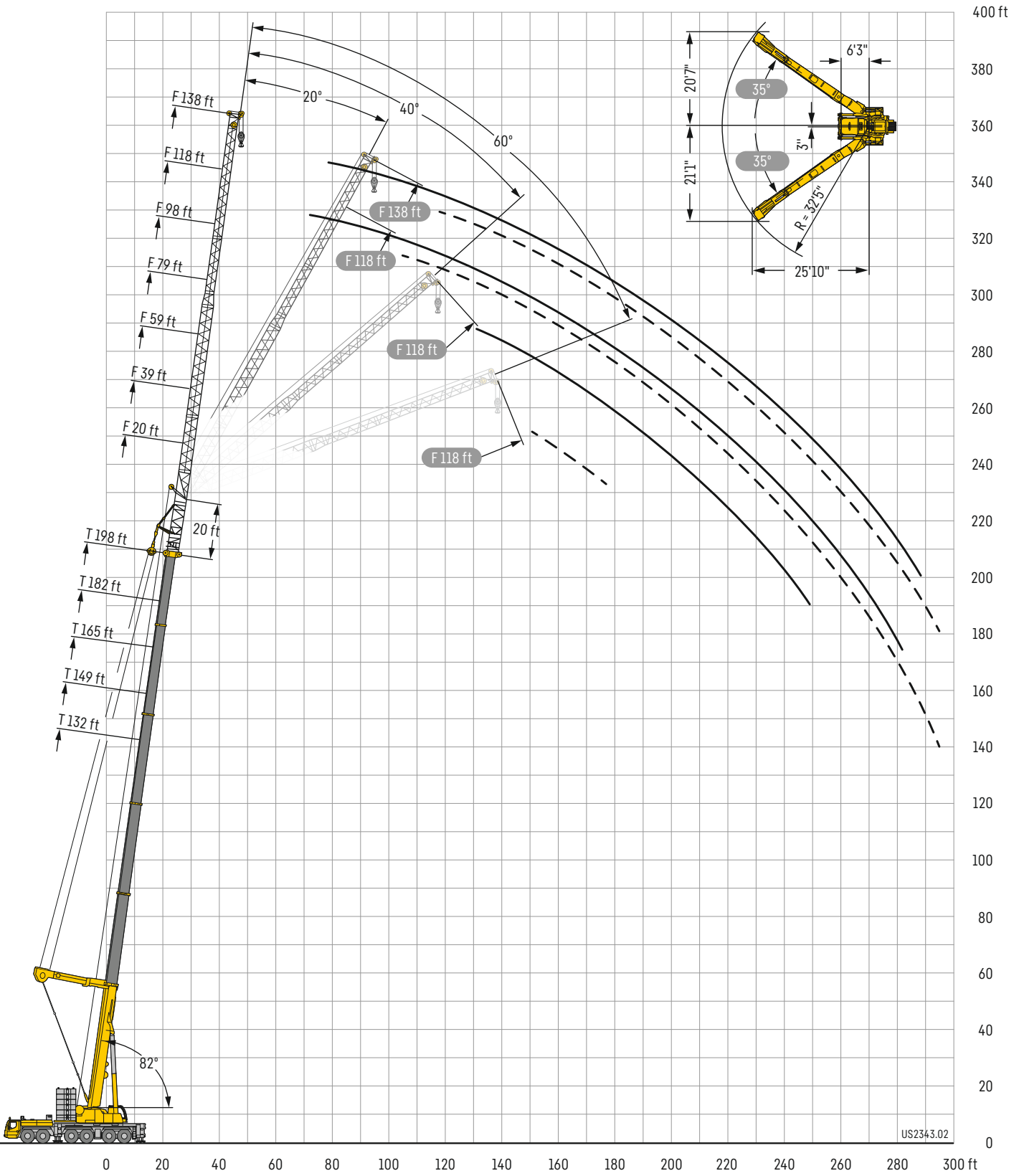
* adapter - pièce d'adaptateur

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Lifting heights

Hauteurs de levage

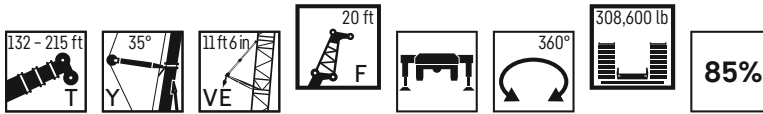
TYVEF



Lifting capacities

Forces de levage

TYVEF 20 ft



	132 ft + 20 ft*			149 ft + 20 ft*			165 ft + 20 ft*			182 ft + 20 ft*			198 ft + 20 ft*			215 ft + 20 ft*			
	F 20 ft																		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
32	127.3																		32
34	127.3			122.1			104.3												34
36	127.3			121.4			106.4												36
38	127.3	83.5		120.6	84		110.5			93.7									38
40	127.1	82.9		119.6	83.5		110.1			97									40
45	122	80.6	62.8	116.2	82.1	63.4	108.1	82.6	63.6	96	82.5		83.2						45
50	115.4	78.2	61.9	111.2	80	62.4	104.3	81	62.7	94	81.6	63	81.8	78.9		69.8			50
55	109.5	75.9	61	103.3	77.8	61.6	99.9	78.9	61.9	91.2	79.9	62.2	80.5	77.7	63.2	68.6	68.8		55
60	102.9	73.8	60.2	96.3	75.8	60.8	94.8	77	61.2	88	78.1	61.5	78.3	76.9	62.5	67.5	67.8	62.1	60
65	96.5	71.9	59.6	90.3	73.9	60.1	89	75.2	60.5	83.1	76.4	60.8	76	75.3	61.9	66.4	66.7	61.5	65
70	90.4	70.1	58.9	84.9	72.1	59.5	83.9	73.5	59.9	78.2	74.3	60.2	73	72.8	61.3	64.9	65.3	61	70
75	84.6	68.4	58.3	79.9	70.5	58.9	79.3	71.9	59.3	73.8	72.1	59.7	68.9	69.9	60.8	63	63.5	60.4	75
80	79.2	66.9	57.9	74.9	69	58.4	75.1	70.2	58.8	69.9	69.9	59.2	65.1	66	60.3	60.6	61.2	59.9	80
85	73.7	65.5	57.5	70.5	67.5	58	71	68.3	58.3	66.3	66.4	58.7	61.8	62.5	59.8	57.4	57.9	58.2	85
90	68	64.2	57.2	66.4	66.1	57.6	67.1	66.6	57.9	62.8	63.1	58.3	58.6	59.5	58.9	54.5	54.8	55.3	90
95	62.8	62.7	57	62.2	63.5	57.2	63.5	64	57.6	59.3	60	57.6	55.7	56.6	56.6	51.7	52.1	52.5	95
100	58.1	59.7	56.8	57.8	59.5	57	60.1	60.7	57.1	56.2	56.8	56.5	52.7	53.8	54.2	49.1	49.5	49.9	100
105	53.9	55.4	55.8	53.6	55.1	55.7	56.5	57.6	56.6	53.3	53.9	54.4	49.9	51.1	51.6	46.5	47.1	47.5	105
110	50	51.4		49.7	51.2	52	52.9	54.1	54.9	50.5	51.1	51.6	47.2	48.4	49	43.9	44.7	45.3	110
115	46.6	47.8		46.1	47.6	48.3	49.5	50.6	51.3	47.6	48.5	49.1	44.8	45.9	46.5	41.6	42.3	43	115
120	43.1	44.4		42.7	44.2	44.8	46.3	47.3	47.9	44.7	45.9	46.5	42.5	43.6	44.1	39.4	40.1	40.7	120
125	40.1	41.2		39.6	41		43.3	44.2	44.8	42	43.1	43.9	40.3	41.4	41.9	37.3	38	38.6	125
130	37.2	38.3		36.8	38		40.5	41.4	41.9	39.3	40.4	41.2	37.8	39.2	39.9	35.4	36	36.6	130
135	34.2	35.4		34	35.2		37.8	38.7	39.2	36.8	37.8	38.4	35.5	36.8	37.6	33.4	34.2	34.7	135
140	31.7	32.6		31.4	32.6		35.4	36.2		34.4	35.2	35.8	33.2	34.6	35.3	31.4	32.3	32.9	140
145	28.1			29.1	30		33	33.8		31.9	32.9	33.4	31	32.4	33	29.3	30.3	31	145
150	23.8			26.8	27.7		30.8	31.6		29.8	30.6		28.9	30.2	30.7	27.3	28.3	29	150
155	18.6			24.7			28.6	29.4		27.6	28.5		26.8	28	28.5	25.4	26.4	27	155
160	11.9			21.6			26.7	27.3		25.7	26.4		25	26		23.7	24.6	25.2	160
165				18			24.9	25.4		23.9	24.6		23.2	24.2		22	22.8	23.3	165
170				13.8			23	23.6		22.2	22.7		21.4	22.4		20.3	21.1		170
175				8.5			20.2	21.2		20.5	21.1		19.8	20.7		18.8	19.5		175
180							17.1			19	19.5		18.3	19.2		17.1	17.9		180
185							13.6			17.3	18		16.9	17.7		15.8	16.4		185
190							9.3			14.9			15.5	16.2		14.4	15		190
195										12.3			14.2	14.9		13.1	13.6		195
200										9.4			12.6	13.5		11.8	12.4		200
205										6			10.5			10.6	11.1		205
210													8.4			9.5	9.9		210
215													5.9			8	8.7		215
220																6.1			220

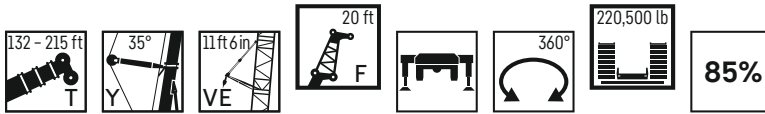
* adapter - pièce d'adaptateur

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Lifting capacities

Forces de levage

TYVEF 20 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
28	127.3				121.5																				28
30	127.3				122.1																				30
32	127.3				122.1				106.5																32
34	127.3	84.6			122.1																				34
36	127.3	84.1			121.4	84.4			110.3																36
38	127.3	83.5	64.4		120.6	84			110.5				96.5												38
40	127.1	82.9	63.9		119.6	83.5			110.1				97												40
45	122	80.6	62.8	56	116.2	82.1	63.4	56	108.1	82.6	63.6		96	82.5			83.2								45
50	115.4	78.2	61.9	55.9	111.2	80	62.4	55.9	104.3	81	62.7	55.8	94	81.6	63		81.8	78.9			69.8				50
55	109.5	75.9	61	55.7	103.3	77.8	61.6	55.7	99.9	78.9	61.9	55.6	91.2	79.9	62.2	55.6	80.5	77.7	63.2		68.6	68.8			55
60	100.8	73.8	60.2	55.4	96.1	75.8	60.8	55.6	94.8	77	61.2	55.6	88	78.1	61.5	55.5	78.3	76.9	62.5	56.2	67.5	67.8	62.1		60
65	91.4	71.9	59.6		88.2	73.9	60.1	55.3	88.9	75.2	60.5	55.4	83.1	76.4	60.8	55.4	76	75.3	61.9	56.2	66.4	66.7	61.5	56.1	65
70	83	70.1	58.9		80.1	72.1	59.5		81.6	73.5	59.9	55.1	77.8	74.3	60.2	55.2	73	72.8	61.3	56.2	64.9	65.3	61	56.1	70
75	75.6	68.4	58.3		73	70.4	58.9		74.8	71.2	59.3		71.6	72.1	59.7	54.9	68.2	69.9	60.8	56.2	63	63.5	60.4	56.1	75
80	69.1	66.9	57.9		66.7	68.8	58.4		68.8	69.6	58.8		65.8	67.8	59.2	54.7	62.9	65.3	60.3	56.2	59.7	61.2	59.9	56.1	80
85	63.2	64.7	57.5		61.2	63.5	58		63.5	65.1	58.3		60.7	62.6	58.4	54.6	58	60.3	59.5	56.2	55.1	57.2	58.2	56.1	85
90	58	60.1	57.2		56.2	58.4	57.4		58.6	60.4	57.8		56	57.8	58		53.6	55.8	57.3	56.2	50.9	52.8	54.4	55.6	90
95	53	54.9	55.3		51.6	53.7	55.1		54.2	55.9	56.2		51.7	53.4	54.7		49.4	51.6	53.1		46.9	48.7	50.2	51.3	95
100	48.5	50.2	51.2		47.4	49.4	50.6		50.1	51.7	53		47.9	49.4	50.8		45.6	47.6	49.1		43.2	44.9	46.4		100
105	44.3	46	46.8		43.5	45.4	46.5		46.5	47.9	49.1		44.3	45.7	47		42.1	44.1	45.3		39.9	41.5	42.8		105
110	40.4	42			40	41.7	42.6		43	44.4	45.4		40.9	42.3	43.4		38.9	40.8	42		36.7	38.3	39.5		110
115	37.1	38.4			36.6	38.2	38.9		39.9	41.1	42.1		37.8	39.2	40.2		36	37.7	38.9		33.9	35.3	36.5		115
120	33.8	35.2			33.4	34.9	35.6		37	38.2	39		35	36.2	37.2		33.3	34.9	36		31.3	32.7	33.7		120
125	30.9	32			30.6	31.8			34.2	35.3	36		32.4	33.6	34.5		30.7	32.3	33.2		28.8	30.1	31.1		125
130	28.2	29.3			27.9	29.1			31.6	32.6	33.1		30	31.1	31.9		28.4	29.9	30.8		26.6	27.8	28.7		130
135	25.7	26.7			25.4	26.5			29.1	30	30.5		27.7	28.8	29.5		26.2	27.6	28.4		24.4	25.6	26.4		135
140	23.4	24.2			23.1	24.2			26.9	27.7			25.6	26.6	27.3		24.2	25.5	26.3		22.4	23.6	24.3		140
145	21.3				21	21.9			24.7	25.5			23.7	24.6	25.1		22.2	23.6	24.2		20.6	21.6	22.3		145
150	19.2				19	19.9			22.8	23.4			21.8	22.6			20.4	21.7	22.3		18.8	19.8	20.5		150
155	17.3				17.1				20.9	21.5			19.9	20.7			18.8	19.9	20.5		17.2	18.1	18.7		155
160	11.9				15.4				19.1	19.8			18.2	18.9			17.2	18.3			15.6	16.5	17.1		160
165					13.8				17.5	18			16.6	17.3			15.7	16.8			14.1	15	15.5		165
170					12.2				16	16.5			15.1	15.6			14.3	15.2			12.8	13.5			170
175					8.5				14.5	15			13.6	14.2			12.9	13.8			11.5	12.2			175
180									13.2				12.3	12.7			11.5	12.4			10.2	10.9			180
185									11.9				11	11.4			10.3	11			9	9.7			185
190									9.2				9.8				9.1	9.8			7.8	8.5			190
195													8.6				8	8.6			6.7	7.3			195
200													7.6				6.9	7.5			5.6	6.2			200
205													5.8				5.7				4.5	5			205
210																	4.6				3.4	3.9			210
215																	3.6					2.7			215

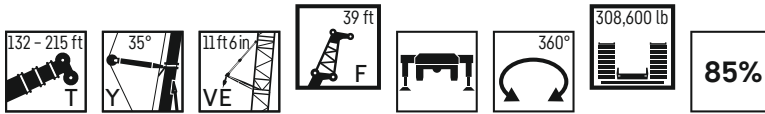
* adapter · pièce d'adaptateur

t_180_61105_00_000 / 61125_00_000 / 61145_00_000 / 61165_00_000

Lifting capacities

Forces de levage

TYVEF 39 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
36	85.5				87																				36
38	83.4				85																				38
40	81.4				83.1				82.6																40
45	76.7				78.7				79				79												45
50	72.7	46.4			74.7	47.2			75.3				75.6				71.2								50
55	68.8	44.8			71.1	45.6			71.9	46.1			72.4	47.3			69.5				62.1				55
60	65.5	43.3	33.4	25.1	67.8	44.2	33.7		68.9	44.8			69.5	46.1			68.2				61.2				60
65	62.2	42	32.8	24.9	64.9	42.9	33.1	24.9	66	43.5	33.2		66.9	44.8	33.9		66.2	44.5			60.2	43.9			65
70	59.1	40.7	32.3	24.7	62.1	41.7	32.5	24.7	63.4	42.3	32.7	24.7	64.3	43.7	33.4	24.7	64	43.4	33.2		59.2	43			70
75	56.3	39.5	31.8	24.4	59.4	40.6	32.1	24.5	61.1	41.2	32.2	24.5	62	42.6	33	24.6	61.9	42.4	32.8	24.4	58.1	42.1	32.7		75
80	53.7	38.4	31.3	24.3	56.9	39.5	31.6	24.3	58.7	40.1	31.8	24.4	59.9	41.6	32.6	24.4	59.9	41.4	32.4	24.3	56.4	41.2	32.3	25.4	80
85	51.4	37.4	30.9		54.4	38.5	31.2	24.2	56.5	39.2	31.4	24.2	57.8	40.6	32.1	24.2	57.3	40.5	32	24.1	54.5	40.3	31.9	25.2	85
90	49.3	36.4	30.5		52.1	37.5	30.8		54.4	38.3	31	24.1	55.8	39.7	31.8	24.1	55	39.7	31.7	24	51.9	39.5	31.6	25.1	90
95	47.2	35.5	30.1		50.2	36.6	30.4		52.4	37.4	30.6		53.7	38.8	31.4	24	53.4	38.9	31.3	23.9	49.3	38.8	31.3	25	95
100	45.3	34.7	29.8		48.4	35.8	30.1		50.5	36.6	30.3		51.8	38	31.1		51.1	38.2	31	23.8	46.9	38	31	24.9	100
105	43.7	34	29.5		46.5	35	29.9		48.8	35.8	30		49.8	37.3	30.8		48.7	37.4	30.7	23.8	44.7	37.3	30.7	24.8	105
110	42.1	33.3	29.3		44.8	34.3	29.6		47.1	35.1	29.7		48.1	36.5	30.5		46.2	36.7	30.5	23.7	42.5	36.7	30.4	24.8	110
115	40.6	32.6	29.2		43.4	33.7	29.4		45.3	34.4	29.5		46.3	35.8	30.2		43.9	36.1	30.2		40.3	36.1	30.2	24.7	115
120	39.3	32	29		41.9	33	29.2		43.4	33.8	29.3		44.2	35.2	30		41.7	35.4	30		38.2	35.5	30		120
125	38.1	31.5	28.8		40.5	32.4	29		42.1	33.2	29.1		41.9	34.6	29.7		39.6	34.8	29.8		36.2	35	29.8		125
130	36.9	31			38.6	31.9	28.9		40.8	32.7	28.9		39.5	34	29.6		37.7	34.3	29.6		34.4	34.4	29.6		130
135	35.6	30.6			36.3	31.4	28.7		39	32.2	28.8		37.2	33.5	29.4		35.8	33.8	29.4		32.6	33.5	29.4		135
140	33.9	30.2			33.8	30.9			36.6	31.7	28.7		35	33	29.2		33.7	33	29.3		31	32.2	29.2		140
145	31.9	29.8			31.3	30.5			34.4	31.1	28.6		32.9	32.3	29.1		31.7	32.4	29.1		29.3	30.5	29.1		145
150	29.6	29.5			29.1	29.6			32.3	30.6	28.5		30.9	31.7	29.1		29.7	31.3	29		27.5	29	29		150
155	27.5	28.4			26.9	28.5			30.2	30.2			28.9	31	29		27.8	29.6	28.9		25.8	27.5	28.2		155
160	25.1	26.7			25.1	26.5			28.1	29			27	28.9	28.9		26.1	27.8	28.3		24	25.8	27		160
165	21.7				23.2	24.5			26.3	27.5			25.2	26.9	27.8		24.4	26	27.2		22.4	24.1	25.4		165
170	18				21.5	22.6			24.6	25.9			23.4	25.2			22.8	24.3	25.3		20.9	22.5	23.7		170
175	13.6				19.2				23	24.1			21.9	23.4			21.3	22.7	23.6		19.4	21	22.1		175
180	7.8				16.4				21.4	22.5			20.3	21.8			19.7	21.1			18.1	19.5	20.5		180
185					13.3				19.9	20.9			18.9	20.3			18.3	19.6			16.8	18.2	19.1		185
190					9.6				17.8	19.3			17.5	18.8			16.9	18.1			15.5	16.8			190
195					5.3				15.4				16.2	17.4			15.6	16.8			14.1	15.5			195
200									12.7				14.9	16			14.4	15.4			13	14.2			200
205									9.6				13	14.7			13.1	14.2			11.7	12.9			205
210									6.2				10.9				12.1	12.9			10.6	11.8			210
215													8.6				10.9	11.8			9.6	10.6			215
220													6.2				9.2	10.6			8.5	9.5			220
225																	7.3				7.4	8.4			225
230																	5.3				6.2	7.3			230
235																					4.7	6.1			235
240																					3				240

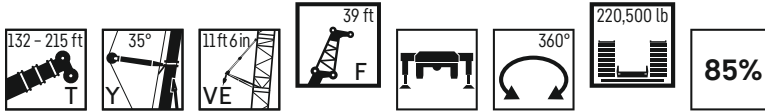
* adapter · pièce d'adaptateur

t_180_61201_00_000 / 61221_00_000 / 61241_00_000 / 61261_00_000

Lifting capacities

Forces de levage

TYVEF 39 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
32	90																								32
34	87.7				88.6																				34
36	85.5				87																				36
38	83.4				85																				38
40	81.4				83.1				82.6																40
45	76.7	48.1			78.7				79				79												45
50	72.7	46.4			74.7	47.2			75.3				75.6				71.2								50
55	68.8	44.8	34.1		71.1	45.6			71.9	46.1			72.4	47.3			69.5				62.1				55
60	65.5	43.3	33.4	25.1	67.8	44.2	33.7		68.9	44.8			69.5	46.1			68.2				61.2				60
65	62.2	42	32.8	24.9	64.9	42.9	33.1	24.9	66	43.5	33.2		66.9	44.8	33.9		66.2	44.5			60.2	43.9			65
70	59.1	40.7	32.3	24.7	62.1	41.7	32.5	24.7	63.4	42.3	32.7	24.7	64.3	43.7	33.4	24.7	64	43.4	33.2		59.2	43			70
75	56.3	39.5	31.8	24.4	59.4	40.6	32.1	24.5	61.1	41.2	32.2	24.5	62	42.6	33	24.6	61.9	42.4	32.8	24.4	58.1	42.1	32.7		75
80	53.7	38.4	31.3	24.3	56.9	39.5	31.6	24.3	58.7	40.1	31.8	24.4	59.9	41.6	32.6	24.4	59.3	41.4	32.4	24.3	56.4	41.2	32.3	25.4	80
85	51.4	37.4	30.9		54.4	38.5	31.2	24.2	56.3	39.2	31.4	24.2	56.8	40.6	32.1	24.2	56.6	40.5	32	24.1	53.8	40.3	31.9	25.2	85
90	49.3	36.4	30.5		52.1	37.5	30.8		53.9	38.3	31	24.1	54.1	39.7	31.8	24.1	53.2	39.7	31.7	24	49.9	39.5	31.6	25.1	90
95	47.2	35.5	30.1		50.2	36.6	30.4		51.4	37.4	30.6		51.1	38.8	31.4	24	49.2	38.9	31.3	23.9	46.2	38.8	31.3	25	95
100	45.3	34.7	29.8		47.8	35.8	30.1		49.2	36.6	30.3		47.6	38	31.1		45.6	38.2	31	23.8	42.6	38	31	24.9	100
105	43.7	34	29.5		44.6	35	29.9		46.5	35.8	30		44.1	37.3	30.8		42.2	37.4	30.7	23.8	39.5	37.3	30.7	24.8	105
110	42	33.3	29.3		41.2	34.3	29.6		43.2	35.1	29.7		40.9	36.5	30.5		39.1	36.7	30.5	23.7	36.5	36.7	30.4	24.8	110
115	39.4	32.6	29.2		38	33.7	29.4		40.2	34.4	29.5		38	35.7	30.2		36.3	35.8	30.2		33.8	35.5	30.2	24.7	115
120	36.2	32	29		35.1	33	29.2		37.4	33.8	29.3		35.2	35.1	30		33.7	35.1	30		31.2	33.8	30		120
125	33.3	31.5	28.8		32.4	32.4	29		34.8	33.2	29.1		32.7	34.2	29.7		31.2	33.5	29.8		28.9	31.5	29.8		125
130	30.7	31			30	31.6	28.9		32.3	32.5	28.9		30.4	33	29.5		29	31.3	29.5		26.7	29.1	29.4		130
135	28.2	29.9			27.5	29.6	28.7		30.1	31.5	28.8		28.2	30.6	29.4		26.8	29.1	29.3		24.6	27	28.4		135
140	25.9	27.6			25.4	27.1			28	29.9	28.7		26.2	28.5	29.2		24.9	27	28.2		22.7	24.9	26.7		140
145	23.8	25.3			23.2	24.9			26	27.8	28.3		24.3	26.5	27.9		23	25	26.5		20.9	23	24.7		145
150	21.8	23.1			21.2	22.9			24.2	25.7	26.7		22.5	24.6	25.9		21.3	23.2	24.6		19.2	21.3	22.8		150
155	19.9	21.1			19.3	20.8			22.3	23.7			20.8	22.8	24		19.6	21.4	22.7		17.6	19.5	21		155
160	18.1	19.2			17.6	19			20.6	22			19.2	21.1	22.2		18.1	19.8	21		16.1	17.9	19.3		160
165	16.5				15.9	17.2			18.9	20.2			17.8	19.5	20.4		16.6	18.2	19.3		14.7	16.4	17.7		165
170	14.9				14.4	15.5			17.4	18.6			16.3	18			15.3	16.8	17.8		13.4	15	16.1		170
175	13.4				13				16	17			14.9	16.5			14	15.4	16.3		12.1	13.6	14.7		175
180	7.8				11.6				14.6	15.6			13.5	15			12.7	14.1			10.9	12.3	13.3		180
185					10.3				13.3	14.2			12.3	13.6			11.6	12.9			9.8	11.1	12		185
190					9.1				12.1	12.9			11.1	12.3			10.4	11.6			8.7	9.9			190
195					5.3				11				9.9	11.1			9.3	10.4			7.6	8.9			195
200									9.9				8.8	9.9			8.3	9.2			6.6	7.8			200
205									8.9				7.9	8.8			7.3	8.2			5.6	6.7			205
210									6.1				7				6.3	7.2			4.6	5.7			210
215													6				5.2	6.2				4.7			215
220													5				4.3	5							220
225																	3.3								225

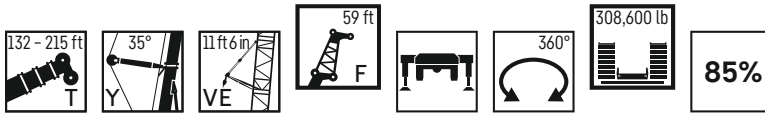
* adapter - pièce d'adaptateur

† 180_61205_00_000 / 61225_00_000 / 61245_00_000 / 61265_00_000

Lifting capacities

Forces de levage

TYVEF 59 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
36	63.5																								36
38	61.9				62.6																				38
40	60.4				61.2																				40
45	56.8				57.8				57.8				57.2												45
50	53.6				54.8				55				55.1				53								50
55	50.9	32.6			52.1				52.5				52.7				51.6				50.2				55
60	48.2	31.4			49.7	32			50.2	32.1			50.5				49.7				48.6				60
65	46.1	30.3			47.3	30.9			48	31.1			48.4	31.4			47.8				47				65
70	43.9	29.3	22.1		45.4	29.9			46	30.2			46.6	30.5			46	30.9			45.5				70
75	41.9	28.3	21.6		43.4	29	21.8		44.2	29.3	21.8		44.8	29.6			44.4	30.1			44	30			75
80	39.9	27.4	21.1	14.2	41.6	28.1	21.3	14.2	42.5	28.5	21.4		43.1	28.8	21.5		42.9	29.4			42.6	29.3			80
85	38.1	26.6	20.6	14.1	39.9	27.3	20.8	14.1	40.9	27.7	21	14	41.7	28.1	21.1		41.4	28.6	21.7		41.4	28.6			85
90	36.3	25.8	20.2	13.9	38.3	26.5	20.4	14	39.3	26.9	20.5	13.9	40.2	27.4	20.7	13.9	40.2	28	21.4		40.2	28	21.3		90
95	34.8	25.1	19.7	13.8	36.7	25.8	20	13.8	38	26.2	20.2	13.8	38.7	26.7	20.3	13.8	38.9	27.3	21.1	14.4	39	27.4	21.1		95
100	33.4	24.4	19.4	13.7	35.3	25.1	19.7	13.7	36.7	25.6	19.8	13.7	37.5	26.1	20	13.7	37.7	26.7	20.8	14.3	38	26.8	20.8	14.2	100
105	32	23.8	19		34	24.5	19.3	13.6	35.4	25	19.5	13.6	36.4	25.5	19.7	13.6	36.6	26.1	20.5	14.2	36.9	26.3	20.5	14.2	105
110	30.6	23.2	18.7		32.7	23.9	19		34.2	24.4	19.2	13.5	35.2	24.9	19.4	13.5	35.5	25.6	20.2	14.1	35.9	25.7	20.2	14.1	110
115	29.5	22.6	18.4		31.4	23.3	18.7		33	23.8	18.9		34.1	24.3	19.1	13.4	34.5	25	19.9	14	35	25.2	20	14	115
120	28.4	22.1	18.1		30.2	22.8	18.4		31.8	23.3	18.6		33.1	23.8	18.8		33.5	24.5	19.7	14	34.1	24.8	19.7	14	120
125	27.4	21.6	17.9		29.2	22.3	18.1		30.7	22.8	18.4		32.1	23.3	18.5		32.6	24.1	19.4		33.2	24.3	19.5	13.9	125
130	26.5	21.1	17.7		28.2	21.8	17.9		29.6	22.4	18.1		31	22.8	18.3		31.7	23.6	19.2		32.4	23.9	19.3	13.9	130
135	25.6	20.6	17.5		27.3	21.4	17.7		28.7	21.9	17.9		30	22.4	18.1		30.8	23.2	19		31.6	23.5	19.1	13.8	135
140	24.8	20.2	17.3		26.4	20.9	17.5		27.8	21.5	17.7		29.2	22	17.9		30	22.8	18.8		30.4	23.1	18.9		140
145	24	19.7	17.1		25.6	20.5	17.3		27	21.1	17.5		28.3	21.6	17.7		29.1	22.4	18.6		29.2	22.7	18.7		145
150	23.2	19.4			24.9	20.1	17.2		26.1	20.7	17.4		27.5	21.2	17.5		27.9	22	18.4		27.8	22.3	18.5		150
155	22.5	19			24.2	19.7	17.1		25.5	20.2	17.2		26.5	20.8	17.4		27.1	21.7	18.2		26.3	22	18.3		155
160	21.8	18.6			23.4	19.3			24.8	19.9	17.1		25.7	20.4	17.2		26.3	21.3	18.1		24.7	21.6	18.2		160
165	21.1	18.4			22.8	19			23.9	19.5	17		25	20	17.1		24.8	21	17.9		23.1	21.3	18		165
170	20.4	18.1			22.1	18.6			23.2	19.2			24.4	19.7	17		23.3	20.7	17.8		21.6	21	17.9		170
175	19.7	17.9			21.1	18.4			22.6	18.9			23.2	19.4	16.9		21.8	20.4	17.7		20.2	20.7	17.8		175
180	19				20.2	18.1			22	18.6			21.7	19.1			20.5	20.1	17.6		18.9	20.3	17.7		180
185	16.9				18.8	17.9			21.2	18.3			20.2	18.7			19.2	19.8	17.5		17.6	19.7	17.6		185
190	13.6				17.2	17.6			20	18			18.9	18.4			17.9	19.4	17.5		16.4	18.4	17.5		190
195	9.7				14.9				18.8	17.8			17.6	18.2			16.6	18.8	17.4		15.2	17.2	17.4		195
200					12.4				17.5	17.6			16.4	17.4			15.4	17.5			14.2	16	17.2		200
205					9.7				15.9	17.1			15.2	16.5			14.3	16.2			13.1	14.8	16		205
210					6.6				14	13.5			14.1	15.4			13.1	15			12	13.7			210
215									11.8				12.9	14.2			12.1	13.8			11	12.6			215
220									9.4				11.5	13.1			11.1	12.7			9.9	11.5			220
225									6.8				9.8	11.8			10.1	11.6			8.9	10.4			225
230									3.6				8				9	10.5			8	9.4			230
235													6				7.7	9.5			7.1	8.4			235
240													3.6				6.2	8.3			6.1	7.4			240
245																					5.1	6.5			245
250																					3.8	5.4			250
255																						4.2			255

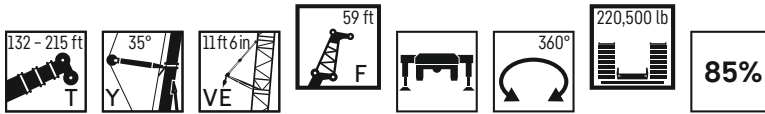
* adapter - pièce d'adaptateur

t_180_61301_00_000 / 61321_00_000 / 61341_00_000 / 61361_00_000

Lifting capacities

Forces de levage

TYVEF 59 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
	F 59 ft																								
34	64.9																								34
36	63.5																								36
38	61.9				62.6																				38
40	60.4				61.2																				40
45	56.8				57.8				57.8				57.2												45
50	53.6				54.8				55				55.1				53								50
55	50.9	32.6			52.1				52.5				52.7				51.6				50.2				55
60	48.2	31.4			49.7	32			50.2	32.1			50.5				49.7				48.6				60
65	46.1	30.3			47.3	30.9			48	31.1			48.4	31.4			47.8				47				65
70	43.9	29.3	22.1		45.4	29.9			46	30.2			46.6	30.5			46	30.9			45.5				70
75	41.9	28.3	21.6		43.4	29	21.8		44.2	29.3	21.8		44.8	29.6			44.4	30.1			44	30			75
80	39.9	27.4	21.1	14.2	41.6	28.1	21.3	14.2	42.5	28.5	21.4		43.1	28.8	21.5		42.9	29.4			42.6	29.3			80
85	38.1	26.6	20.6	14.1	39.9	27.3	20.8	14.1	40.9	27.7	21	14	41.7	28.1	21.1		41.4	28.6	21.7		41.4	28.6			85
90	36.3	25.8	20.2	13.9	38.3	26.5	20.4	14	39.3	26.9	20.5	13.9	40.2	27.4	20.7	13.9	40.2	28	21.4		40.2	28	21.3		90
95	34.8	25.1	19.7	13.8	36.7	25.8	20	13.8	38	26.2	20.2	13.8	38.7	26.7	20.3	13.8	38.9	27.3	21.1	14.4	39	27.4	21.1		95
100	33.4	24.4	19.4	13.7	35.3	25.1	19.7	13.7	36.7	25.6	19.8	13.7	37.5	26.1	20	13.7	37.7	26.7	20.8	14.3	38	26.8	20.8	14.2	100
105	32	23.8	19		34	24.5	19.3	13.6	35.4	25	19.5	13.6	36.4	25.5	19.7	13.6	36.6	26.1	20.5	14.2	36.9	26.3	20.5	14.2	105
110	30.6	23.2	18.7		32.7	23.9	19		34.2	24.4	19.2	13.5	35.2	24.9	19.4	13.5	35.5	25.6	20.2	14.1	35.6	25.7	20.2	14.1	110
115	29.5	22.6	18.4		31.4	23.3	18.7		33	23.8	18.9		33.9	24.3	19.1	13.4	34	25	19.9	14	33.7	25.2	20	14	115
120	28.4	22.1	18.1		30.2	22.8	18.4		31.8	23.3	18.6		32.8	23.8	18.8		33	24.5	19.7	14	31.6	24.8	19.7	14	120
125	27.4	21.6	17.9		29.2	22.3	18.1		30.6	22.8	18.4		31.5	23.3	18.5		31.1	24.1	19.4		29.3	24.3	19.5	13.9	125
130	26.5	21.1	17.7		28.2	21.8	17.9		29.3	22.4	18.1		30.3	22.8	18.3		29.1	23.6	19.2		27.2	23.9	19.3	13.9	130
135	25.6	20.6	17.5		27.3	21.4	17.7		28.4	21.9	17.9		28.7	22.4	18.1		27	23.2	19		25.2	23.5	19.1	13.8	135
140	24.8	20.2	17.3		26.2	20.9	17.5		27.5	21.5	17.7		26.9	22	17.9		25.1	22.8	18.8		23.4	23.1	18.9		140
145	24	19.7	17.1		24.9	20.5	17.3		26.5	21.1	17.5		25	21.6	17.7		23.3	22.4	18.6		21.6	22.7	18.7		145
150	23	19.4			23	20.1	17.2		25.1	20.7	17.4		23.3	21.2	17.5		21.7	22	18.4		20	22.3	18.5		150
155	21.7	19			21.3	19.7	17.1		23.4	20.2	17.2		21.7	20.7	17.4		20.1	21.7	18.2		18.4	21.2	18.3		155
160	20.3	18.6			19.5	19.3			21.8	19.8	17.1		20.1	20.3	17.2		18.5	21.3	18.1		16.9	19.6	18.2		160
165	18.6	18.4			17.9	18.7			20.4	19.4	17		18.6	19.9	17.1		17.1	19.9	17.9		15.6	18.2	18		165
170	17.1	17.9			16.4	18			18.9	19.1			17.3	19.2	17		15.8	18.5	17.8		14.3	16.7	17.9		170
175	15.6	17			14.9	16.8			17.5	18.5			16	18	16.9		14.5	17.1	17.7		13	15.4	16.9		175
180	14.3				13.5	15.2			16.1	17.5			14.8	16.7			13.3	15.8	17		11.8	14.1	15.8		180
185	13				12.3	13.8			14.8	16.4			13.6	15.4			12.2	14.5	15.9		10.7	12.8	14.4		185
190	11.7				11	12.4			13.6	15.1			12.5	14.2			11.1	13.3	14.6		9.6	11.7	13.1		190
195	9.6				9.9				12.4	13.8			11.3	12.9			10	12.2	13.4		8.6	10.5	11.9		195
200					8.8				11.4	12.6			10.3	11.7			9.1	11.1			7.7	9.5	10.7		200
205					7.8				10.3	11.4			9.2	10.6			8.2	10			6.7	8.5	9.6		205
210					6.5				9.3	7.8			8.3	9.5			7.2	9			5.8	7.5			210
215									8.4				7.4	8.4			6.4	8.1			4.9	6.6			215
220									7.6				6.6	7.6			5.5	7.1			4	5.6			220
225									6.7				5.7	6.7			4.6	6.2			3.1	4.7			225
230									3.6				4.8				3.7	5.2				3.8			230
235													3.9				2.7	4.3				2.8			235
240													3					3.2							240

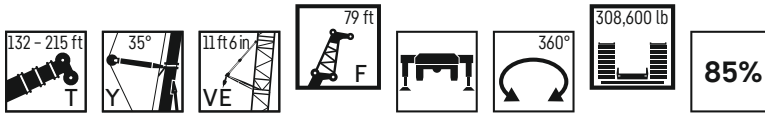
* adapter - pièce d'adaptateur

t_180_61305_00_000 / 61325_00_000 / 61345_00_000 / 61365_00_000

Lifting capacities

Forces de levage

TYVEF 79 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
40	47.4																								40
45	44.9				45.3				44.6																45
50	42.5				43.1				43				42.5												50
55	40.4				41				41.1				41				40.2								55
60	38.4				39.1				39.3				39.4				38.6				36.7				60
65	36.5	24			37.4				37.6				37.8				37.2				35.8				65
70	34.8	23.1			35.6	23.5			36.1				36.4				35.8				34.5				70
75	33.3	22.2			34.1	22.6			34.6	22.8			35	22.9			34.5				33.4				75
80	31.8	21.5			32.8	21.9			33.2	22.1			33.7	22.4			33.4	22.2			32.3				80
85	30.3	20.8	14.9		31.4	21.2			32	21.4			32.4	21.7			32.2	21.7			31.3	21.3			85
90	29.1	20.1	14.5		30.1	20.5	14.6		30.8	20.8			31.3	21.1			31.1	21.1			30.4	20.8			90
95	27.8	19.4	14.1		29	19.9	14.3		29.6	20.2	14.3		30.3	20.5	14.4		30.2	20.6			29.5	20.3			95
100	26.6	18.8	13.8	8.9	28	19.3	14	8.9	28.6	19.6	14		29.2	20	14.1		29.3	20	14.1		28.6	19.8			100
105	25.5	18.1	13.5	8.8	26.9	18.7	13.7	8.8	27.6	19.1	13.8	8.8	28.2	19.4	13.9		28.4	19.5	13.8		27.8	19.3	13.7		105
110	24.5	17.6	13.2	8.7	25.9	18.1	13.4	8.7	26.7	18.5	13.5	8.7	27.3	18.9	13.6	8.7	27.5	19	13.6	8.6	27.1	18.8	13.5		110
115	23.4	17	12.9	8.6	24.9	17.6	13.1	8.6	25.8	18	13.2	8.6	26.5	18.4	13.3	8.6	26.7	18.5	13.4	8.6	26.3	18.4	13.2	8.5	115
120	22.4	16.5	12.7	8.5	24	17.1	12.9	8.5	24.9	17.5	13	8.5	25.6	17.9	13.1	8.5	25.9	18	13.2	8.5	25.6	17.9	13	8.4	120
125	21.6	16	12.4		23	16.6	12.6	8.5	24.1	17	12.8	8.5	24.9	17.4	12.9	8.5	25.1	17.6	12.9	8.4	24.9	17.5	12.9	8.4	125
130	20.8	15.5	12.2		22.1	16.1	12.4		23.3	16.6	12.6	8.4	24.1	17	12.7	8.4	24.4	17.1	12.7	8.4	24.2	17.1	12.7	8.3	130
135	20	15.1	12		21.3	15.7	12.2		22.4	16.1	12.4		23.4	16.5	12.5	8.4	23.7	16.7	12.5	8.3	23.6	16.7	12.5	8.3	135
140	19.2	14.7	11.8		20.6	15.3	12		21.7	15.7	12.2		22.6	16.1	12.3		23.1	16.4	12.3	8.3	23	16.4	12.3	8.2	140
145	18.5	14.3	11.6		19.8	14.9	11.8		20.9	15.3	12		21.9	15.7	12.1		22.4	16	12.2		22.4	16	12.2	8.2	145
150	17.8	14	11.5		19.1	14.5	11.7		20.2	14.9	11.8		21.2	15.4	12		21.8	15.6	12		21.8	15.7	12	8.2	150
155	17.1	13.6	11.3		18.4	14.2	11.5		19.5	14.6	11.7		20.6	15	11.8		21.2	15.3	11.9		21.3	15.4	11.9	8.2	155
160	16.4	13.3	11.2		17.8	13.8	11.4		18.8	14.3	11.5		19.9	14.7	11.7		20.6	15	11.7		20.8	15.1	11.7		160
165	15.8	13	11.1		17.2	13.5	11.3		18.3	14	11.4		19.3	14.4	11.5		20	14.6	11.6		20.2	14.8	11.6		165
170	15.3	12.8			16.6	13.3	11.1		17.7	13.7	11.3		18.6	14.1	11.4		19.4	14.3	11.5		19.7	14.5	11.5		170
175	14.7	12.5			16	13	11.1		17.1	13.4	11.2		18.1	13.8	11.3		18.8	14.1	11.4		19.2	14.2	11.4		175
180	14.2	12.2			15.5	12.7			16.6	13.1	11.1		17.6	13.5	11.2		18.2	13.8	11.3		18.6	13.9	11.3		180
185	13.7	12			14.9	12.5			16	12.9	11		17	13.3	11.1		17.5	13.6	11.2		17.7	13.7	11.2		185
190	13.2	11.9			14.5	12.3			15.5	12.7			16.4	13	11		17	13.3	11.1		16.5	13.5	11.1		190
195	12.8	11.7			14	12.1			15.1	12.5			15.9	12.8	10.9		16.6	13.1	11		15.3	13.2	11		195
200	12.4				13.6	11.9			14.6	12.2			15.4	12.6			15.8	12.9	10.9		14.2	13	10.9		200
205	12				13.1	11.7			14.1	12			15	12.4			14.9	12.6	10.9		13.2	12.8	10.9		205
210	9.8				12.3	11.6			13.6	11.9			14.6	12.2			14.1	12.4	10.8		12.3	12.6	10.8		210
215	6.7				11.2				13.3	11.7			13.8	12			13.1	12.2			11.4	12.4	10.8		215
220					9				12.9	11.6			12.9	11.8			12.1	12			10.4	12.1	10.8		220
225					6.7				11.9	11.5			12	11.7			11	11.9			9.5	11.5	10.7		225
230					3.9				10.6	9.6			11	11.6			10.1	11.3			8.6	10.6			230
235									8.6				9.9	11.4			9.2	10.7			7.8	9.7			235
240									6.7				8.5	10.5			8.3	9.9			6.9	8.7			240
245									4.3				6.9	9.3			7.4	9			6.1	7.8			245
250													5.3				6.3	8.1			5.3	6.9			250
255													3.4				5	7.1			4.4	6.1			255
260																	3.6	5.9			3.4	5.2			260
265																					4.3				265
270																					3.3				270

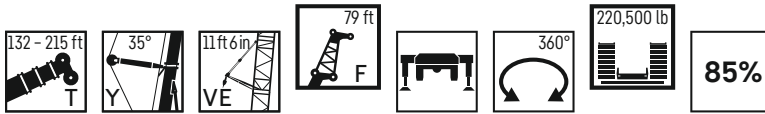
* adapter - pièce d'adaptateur

t_180_61401_00_000 / 61421_00_000 / 61441_00_000 / 61461_00_000

Lifting capacities

Forces de levage

TYVEF 79 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
38	48.5																								38
40	47.4																								40
45	44.9				45.3				44.6																45
50	42.5				43.1				43				42.5												50
55	40.4				41				41.1				41				40.2								55
60	38.4				39.1				39.3				39.4				38.6				36.7				60
65	36.5	24			37.4				37.6				37.8				37.2				35.8				65
70	34.8	23.1			35.6	23.5			36.1				36.4				35.8				34.5				70
75	33.3	22.2			34.1	22.6			34.6	22.8			35	22.9			34.5				33.4				75
80	31.8	21.5			32.8	21.9			33.2	22.1			33.7	22.4			33.4	22.2			32.3				80
85	30.3	20.8	14.9		31.4	21.2			32	21.4			32.4	21.7			32.2	21.7			31.3	21.3			85
90	29.1	20.1	14.5		30.1	20.5	14.6		30.8	20.8			31.3	21.1			31.1	21.1			30.4	20.8			90
95	27.8	19.4	14.1		29	19.9	14.3		29.6	20.2	14.3		30.3	20.5	14.4		30.2	20.6			29.5	20.3			95
100	26.6	18.8	13.8	8.9	28	19.3	14	8.9	28.6	19.6	14		29.2	20	14.1		29.3	20	14.1		28.6	19.8			100
105	25.5	18.1	13.5	8.8	26.9	18.7	13.7	8.8	27.6	19.1	13.8	8.8	28.2	19.4	13.9		28.4	19.5	13.8		27.8	19.3	13.7		105
110	24.5	17.6	13.2	8.7	25.9	18.1	13.4	8.7	26.7	18.5	13.5	8.7	27.3	18.9	13.6	8.7	27.5	19	13.6	8.6	27.1	18.8	13.5		110
115	23.4	17	12.9	8.6	24.9	17.6	13.1	8.6	25.8	18	13.2	8.6	26.5	18.4	13.3	8.6	26.7	18.5	13.4	8.6	26.3	18.4	13.2	8.5	115
120	22.4	16.5	12.7	8.5	24	17.1	12.9	8.5	24.9	17.5	13	8.5	25.6	17.9	13.1	8.5	25.9	18	13.2	8.5	25.6	17.9	13	8.4	120
125	21.6	16	12.4		23	16.6	12.6	8.5	24.1	17	12.8	8.5	24.9	17.4	12.9	8.5	25.1	17.6	12.9	8.4	24.9	17.5	12.9	8.4	125
130	20.8	15.5	12.2		22.1	16.1	12.4		23.3	16.6	12.6	8.4	24.1	17	12.7	8.4	24.4	17.1	12.7	8.4	24.2	17.1	12.7	8.3	130
135	20	15.1	12		21.3	15.7	12.2		22.4	16.1	12.4		23.4	16.5	12.5	8.4	23.7	16.7	12.5	8.3	23.6	16.7	12.5	8.3	135
140	19.2	14.7	11.8		20.6	15.3	12		21.7	15.7	12.2		22.6	16.1	12.3		22.8	16.4	12.3	8.3	22.5	16.4	12.3	8.2	140
145	18.5	14.3	11.6		19.8	14.9	11.8		20.9	15.3	12		21.9	15.7	12.1		22.2	16	12.2		21.4	16	12.2	8.2	145
150	17.8	14	11.5		19.1	14.5	11.7		20.2	14.9	11.8		21.1	15.4	12		21.3	15.6	12		19.9	15.7	12	8.2	150
155	17.1	13.6	11.3		18.4	14.2	11.5		19.4	14.6	11.7		20.3	15	11.8		20.4	15.3	11.9		18.4	15.4	11.9	8.2	155
160	16.4	13.3	11.2		17.8	13.8	11.4		18.7	14.3	11.5		19.6	14.7	11.7		19	15	11.7		17	15.1	11.7		160
165	15.8	13	11.1		17.2	13.5	11.3		18	14	11.4		18.8	14.4	11.5		17.6	14.6	11.6		15.6	14.8	11.6		165
170	15.3	12.8			16.6	13.3	11.1		17.5	13.7	11.3		17.8	14.1	11.4		16.3	14.3	11.5		14.3	14.5	11.5		170
175	14.7	12.5			15.9	13	11.1		16.9	13.4	11.2		16.6	13.8	11.3		15.1	14.1	11.4		13.1	14.2	11.4		175
180	14.2	12.2			14.8	12.7			16.3	13.1	11.1		15.4	13.5	11.2		13.9	13.8	11.3		12	13.9	11.3		180
185	13.7	12			13.7	12.5			15.6	12.9	11		14.2	13.3	11.1		12.8	13.4	11.2		10.9	13.5	11.2		185
190	13.1	11.9			12.5	12.3			14.7	12.7			13.2	13	11		11.7	13.2	11.1		9.8	12.5	11.1		190
195	12.1	11.7			11.3	12.1			13.5	12.4			12.1	12.7	10.9		10.7	12.7	11		8.9	11.5	11		195
200	11				10.2	11.8			12.4	12.2			11.1	12.5			9.8	12	10.9		7.9	10.4	10.9		200
205	9.9				9.2	10.8			11.4	11.9			10.2	11.9			8.8	11	10.9		7	9.4	10.8		205
210	8.9				8.2	9.7			10.3	11.6			9.2	11			7.9	10	10.7		6.2	8.4	10		210
215	6.6				7.3				9.4	11			8.4	10.1			7.1	9.1			5.3	7.5	9.1		215
220					6.5				8.5	9.9			7.5	9.1			6.3	8.2			4.5	6.6	8		220
225					5.5				7.8	9			6.7	8.1			5.4	7.2			3.6	5.7	7.1		225
230					3.7				7	4.4			5.9	7.3			4.7	6.4				4.9			230
235									6.3				5.1	6.5			3.9	5.6				4			235
240									5.5				4.3	5.6			3.1	4.7				3.2			240
245									4.1				3.4	4.7				3.9							245
250													2.6					3							250

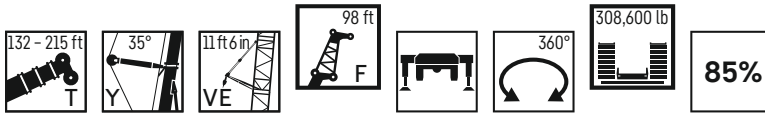
* adapter - pièce d'adaptateur

t_180_61405_00_000 / 61425_00_000 / 61445_00_000 / 61465_00_000

Lifting capacities

Forces de levage

TYVEF 98 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
45	35				34.9				32.7																45
50	33.2				33.2				32.7																50
55	31.5				31.6				31.5				31.3												55
60	29.9				30.1				30.1				30.1				29.5								60
65	28.6				28.8				28.8				28.9				28.4				26.9				65
70	27.2				27.6				27.6				27.7				27.4				26.4				70
75	26	17.6			26.4				26.6				26.7				26.4				25.5				75
80	25	16.9			25.3	17			25.6				25.8				25.4				24.7				80
85	23.9	16.2			24.4	16.4			24.6	16.5			24.8				24.6				23.9				85
90	22.9	15.5			23.4	15.8			23.7	15.9			23.9	16.1			23.8				23.2				90
95	22	14.9			22.5	15.2			22.9	15.3			23.2	15.5			23	15.5			22.5				95
100	21.1	14.4	10		21.7	14.6			22.1	14.8			22.4	15			22.3	15			21.8	14.8			100
105	20.2	13.8	9.7		20.9	14.1	9.8		21.3	14.3			21.7	14.6			21.6	14.5			21.2	14.4			105
110	19.4	13.3	9.5		20.2	13.6	9.5		20.6	13.9	9.5		20.9	14.1	9.6		21	14.1			20.6	14			110
115	18.6	12.9	9.2	5.8	19.4	13.2	9.3		19.9	13.4	9.3		20.3	13.7	9.4		20.3	13.7	9.3		20	13.6			115
120	17.8	12.4	9	5.7	18.7	12.8	9.1	5.7	19.2	13	9.1		19.6	13.3	9.2		19.7	13.3	9.1		19.4	13.2	9		120
125	17	12	8.7	5.7	18	12.3	8.9	5.7	18.5	12.6	8.9	5.6	19	12.9	9	5.6	19.1	13	8.9		18.9	12.9	8.8		125
130	16.3	11.6	8.6	5.6	17.2	12	8.7	5.6	17.9	12.2	8.7	5.6	18.3	12.5	8.8	5.6	18.5	12.6	8.8	5.5	18.3	12.5	8.7		130
135	15.6	11.2	8.4	5.6	16.5	11.6	8.5	5.6	17.3	11.9	8.5	5.5	17.8	12.2	8.6	5.5	18	12.3	8.6	5.5	17.8	12.2	8.5	5.4	135
140	15	10.9	8.2	5.5	15.8	11.2	8.3	5.5	16.7	11.6	8.4	5.5	17.2	11.8	8.5	5.5	17.4	12	8.5	5.4	17.3	11.9	8.4	5.4	140
145	14.3	10.6	8		15.3	10.9	8.1	5.5	16	11.2	8.2	5.4	16.7	11.5	8.3	5.4	16.9	11.7	8.3	5.4	16.8	11.6	8.2	5.3	145
150	13.7	10.3	7.9		14.7	10.6	8		15.5	10.9	8.1	5.4	16.1	11.2	8.2	5.4	16.4	11.4	8.2	5.4	16.3	11.3	8.1	5.3	150
155	13.2	10	7.7		14.1	10.3	7.8		14.9	10.6	7.9		15.6	10.9	8	5.4	15.9	11.1	8	5.3	15.8	11.1	8	5.3	155
160	12.6	9.7	7.6		13.5	10.1	7.7		14.4	10.3	7.8		15.1	10.6	7.9		15.5	10.8	7.9	5.3	15.4	10.8	7.9	5.3	160
165	12.1	9.4	7.5		13	9.8	7.6		13.8	10.1	7.7		14.6	10.4	7.8		15	10.5	7.8		15.1	10.6	7.8	5.3	165
170	11.6	9.2	7.4		12.6	9.5	7.5		13.3	9.8	7.6		14.1	10.1	7.7		14.6	10.3	7.7		14.7	10.3	7.7	5.2	170
175	11.1	8.9	7.4		12.1	9.3	7.4		12.9	9.6	7.5		13.6	9.9	7.6		14.1	10	7.6		14.3	10.1	7.6	5.2	175
180	10.7	8.7	7.3		11.7	9.1	7.4		12.4	9.4	7.4		13.2	9.6	7.5		13.7	9.8	7.6		13.9	9.9	7.5		180
185	10.3	8.5	7.2		11.2	8.9	7.3		12	9.1	7.4		12.7	9.4	7.4		13.3	9.6	7.5		13.5	9.7	7.5		185
190	9.9	8.3			10.8	8.6	7.3		11.6	8.9	7.3		12.3	9.2	7.4		12.8	9.4	7.4		13.1	9.5	7.4		190
195	9.6	8.1			10.4	8.5	7.2		11.2	8.7	7.2		12	9	7.3		12.4	9.2	7.3		12.8	9.3	7.3		195
200	9.2	8			10.1	8.3			10.8	8.6	7.2		11.6	8.8	7.2		12.1	9	7.2		12.4	9.1	7.3		200
205	8.9	7.9			9.7	8.1			10.5	8.4	7.1		11.2	8.6	7.2		11.7	8.8	7.2		12	8.9	7.2		205
210	8.6	7.7			9.4	8			10.1	8.2			10.8	8.5	7.1		11.4	8.7	7.1		11.7	8.8	7.1		210
215	8.3	7.6			9.1	7.8			9.8	8.1			10.5	8.3	7.1		10.9	8.5	7.1		11.2	8.6	7.1		215
220	8				8.8	7.7			9.5	7.9			10.2	8.2			10.6	8.3	7.1		10.6	8.4	7.1		220
225	7.7				8.5	7.6			9.2	7.8			9.8	8			10.3	8.2	7		9.8	8.3	7		225
230	6.9				8.2	7.5			8.9	7.7			9.5	7.9			9.9	8.1	7		9	8.2	7		230
235	4.2				7.5				8.6	7.6			9.2	7.8			9.5	7.9			8.2	8	7		235
240					6.3				8.3	7.5			8.9	7.7			9.1	7.8			7.4	7.9	7		240
245					4.2				8.1	7.5			8.6	7.6			8.3	7.7			6.7	7.7			245
250									7.3	7.2			8.2	7.5			7.5	7.6			5.9	7.4			250
255									6.2				7.1	7.4			6.6	7.5			5.2	7.1			255
260									4.2				5.8	7.4			5.8	7.1			4.5	6.5			260
265													4.4	6.9			4.8	6.7			3.8	5.7			265
270																	3.7	6			2.9	4.9			270
275																		5				4.2			275
280																		3.9				3.4			280

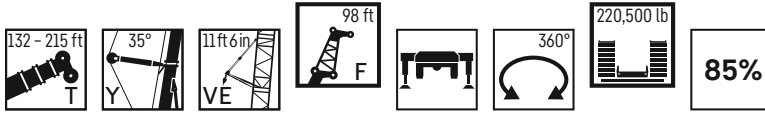
* adapter - pièce d'adaptateur

t_180_61501_00_000 / 61521_00_000 / 61541_00_000 / 61561_00_000

Lifting capacities

Forces de levage

TYVEF 98 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
40	36.9																								40
45	35				34.9																				45
50	33.2				33.2				32.7																50
55	31.5				31.6				31.5				31.3												55
60	29.9				30.1				30.1				30.1				29.5								60
65	28.6				28.8				28.8				28.9				28.4				26.9				65
70	27.2				27.6				27.6				27.7				27.4				26.4				70
75	26	17.6			26.4				26.6				26.7				26.4				25.5				75
80	25	16.9			25.3	17			25.6				25.8				25.4				24.7				80
85	23.9	16.2			24.4	16.4			24.6	16.5			24.8				24.6				23.9				85
90	22.9	15.5			23.4	15.8			23.7	15.9			23.9	16.1			23.8				23.2				90
95	22	14.9			22.5	15.2			22.9	15.3			23.2	15.5			23	15.5			22.5				95
100	21.1	14.4	10		21.7	14.6			22.1	14.8			22.4	15			22.3	15			21.8	14.8			100
105	20.2	13.8	9.7		20.9	14.1	9.8		21.3	14.3			21.7	14.6			21.6	14.5			21.2	14.4			105
110	19.4	13.3	9.5		20.2	13.6	9.5		20.6	13.9	9.5		20.9	14.1	9.6		21	14.1			20.6	14			110
115	18.6	12.9	9.2	5.8	19.4	13.2	9.3		19.9	13.4	9.3		20.3	13.7	9.4		20.3	13.7	9.3		20	13.6			115
120	17.8	12.4	9	5.7	18.7	12.8	9.1	5.7	19.2	13	9.1		19.6	13.3	9.2		19.7	13.3	9.1		19.4	13.2	9		120
125	17	12	8.7	5.7	18	12.3	8.9	5.7	18.5	12.6	8.9	5.6	19	12.9	9	5.6	19.1	13	8.9		18.9	12.9	8.8		125
130	16.3	11.6	8.6	5.6	17.2	12	8.7	5.6	17.9	12.2	8.7	5.6	18.3	12.5	8.8	5.6	18.5	12.6	8.8	5.5	18.3	12.5	8.7		130
135	15.6	11.2	8.4	5.6	16.5	11.6	8.5	5.6	17.3	11.9	8.5	5.5	17.8	12.2	8.6	5.5	18	12.3	8.6	5.5	17.8	12.2	8.5	5.4	135
140	15	10.9	8.2	5.5	15.8	11.2	8.3	5.5	16.7	11.6	8.4	5.5	17.2	11.8	8.5	5.5	17.4	12	8.5	5.4	17.3	11.9	8.4	5.4	140
145	14.3	10.6	8		15.3	10.9	8.1	5.5	16	11.2	8.2	5.4	16.7	11.5	8.3	5.4	16.9	11.7	8.3	5.4	16.8	11.6	8.2	5.3	145
150	13.7	10.3	7.9		14.7	10.6	8		15.5	10.9	8.1	5.4	16.1	11.2	8.2	5.4	16.4	11.4	8.2	5.4	16.3	11.3	8.1	5.3	150
155	13.2	10	7.7		14.1	10.3	7.8		14.9	10.6	7.9		15.6	10.9	8	5.4	15.9	11.1	8	5.3	15.8	11.1	8	5.3	155
160	12.6	9.7	7.6		13.5	10.1	7.7		14.4	10.3	7.8		15.1	10.6	7.9		15.5	10.8	7.9	5.3	15.4	10.8	7.9	5.3	160
165	12.1	9.4	7.5		13	9.8	7.6		13.8	10.1	7.7		14.6	10.4	7.8		15	10.5	7.8		15	10.6	7.8	5.3	165
170	11.6	9.2	7.4		12.6	9.5	7.5		13.3	9.8	7.6		14.1	10.1	7.7		14.3	10.3	7.7		14.1	10.3	7.7	5.2	170
175	11.1	8.9	7.4		12.1	9.3	7.4		12.9	9.6	7.5		13.6	9.9	7.6		13.9	10	7.6		13.2	10.1	7.6	5.2	175
180	10.7	8.7	7.3		11.7	9.1	7.4		12.4	9.4	7.4		13.1	9.6	7.5		13.5	9.8	7.6		12.1	9.9	7.5		180
185	10.3	8.5	7.2		11.2	8.9	7.3		12	9.1	7.4		12.6	9.4	7.4		12.9	9.6	7.5		11.1	9.7	7.5		185
190	9.9	8.3			10.8	8.6	7.3		11.5	8.9	7.3		12.1	9.2	7.4		11.9	9.4	7.4		10.1	9.5	7.4		190
195	9.6	8.1			10.4	8.5	7.2		11.1	8.7	7.2		11.8	9	7.3		10.9	9.2	7.3		9.1	9.3	7.3		195
200	9.2	8			10.1	8.3			10.7	8.6	7.2		11.2	8.8	7.2		10	9	7.2		8.2	9.1	7.3		200
205	8.9	7.9			9.6	8.1			10.3	8.4	7.1		10.4	8.6	7.2		9.1	8.8	7.2		7.3	8.9	7.2		205
210	8.6	7.7			9.1	8			10	8.2			9.6	8.5	7.1		8.2	8.6	7.1		6.4	8.7	7.1		210
215	8.3	7.6			8.4	7.8			9.6	8.1			8.8	8.3	7.1		7.4	8.4	7.1		5.6	8.2	7.1		215
220	8				7.6	7.7			9	7.9			8	8.1			6.6	8.3	7.1		4.8	7.5	7.1		220
225	7.5				6.7	7.6			8.4	7.8			7.2	8			5.8	7.9	7		4	6.6	7		225
230	6.8				6	7.2			7.8	7.7			6.4	7.8			5.1	7.3	7			5.8	7		230
235	4.2				5.1				7.1	7.6			5.7	7.4			4.4	6.6				5	6.5		235
240					4.2				6.4	7.5			5	6.7			3.7	5.8				4.3	5.9		240
245					3.4				5.7	6.9			4.3	6			2.9	5				3.4			245
250									4.9				3.6	5.3				4.3							250
255									4.2				2.8	4.5				3.5							255
260									3.5					3.7				2.7							260
265														2.8											265

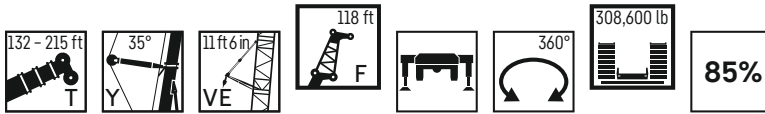
* adapter - pièce d'adaptateur

t_180_61505_00_000 / 61525_00_000 / 61545_00_000 / 61565_00_000

Lifting capacities

Forces de levage

TYVEF 118 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
45	28.1																								45
50	26.7				27.7																				50
55	25.3				26.4				26																55
60	24.1				25.2				25				25												60
65	22.9				24.1				24				24				23.5								65
70	21.9				23				23				23				22.6				21.5				70
75	20.9				22				22				22.1				21.8				21				75
80	20				21.1				21.2				21.3				21				20.3				80
85	19.1	12.8			20.2				20.4				20.5				20.3				19.7				85
90	18.4	12.2			19.5	13.2			19.6				19.8				19.6				19.1				90
95	17.6	11.7			18.8	12.8			18.9	12.9			19.1				19				18.4				95
100	16.8	11.2			18	12.3			18.2	12.4			18.5	12.5			18.3				17.9				100
105	16.2	10.8			17.3	11.9			17.6	12			17.9	12.2			17.7	12.1			17.4				105
110	15.5	10.4			16.7	11.5			16.9	11.6			17.3	11.8			17.2	11.8			16.8	11.6			110
115	14.9	10	6.8		16.1	11.1			16.4	11.3			16.7	11.4			16.7	11.4			16.4	11.3			115
120	14.2	9.6	6.7		15.5	10.7	7.3		15.8	10.9			16.2	11.1			16.2	11.1			15.9	11			120
125	13.6	9.2	6.5		15	10.3	7.1		15.3	10.5	7.1		15.6	10.7			15.7	10.8			15.5	10.6			125
130	13	8.8	6.3		14.4	10	7		14.8	10.2	7		15.2	10.4	7		15.2	10.5			15.1	10.3			130
135	12.4	8.5	6.2	3.3	13.9	9.6	6.8		14.3	9.8	6.8		14.7	10.1	6.9		14.8	10.1	6.9		14.6	10.1			135
140	11.8	8.2	6	3.2	13.4	9.3	6.6	3.8	13.8	9.5	6.7		14.2	9.7	6.7		14.4	9.8	6.7		14.2	9.8	6.7		140
145	11.3	7.9	5.9	3.2	12.8	9	6.5	3.8	13.4	9.2	6.6	3.8	13.8	9.4	6.6	3.8	14	9.5	6.6		13.8	9.5	6.6		145
150	10.8	7.6	5.8	3.2	12.3	8.7	6.4	3.7	12.9	8.9	6.4	3.8	13.4	9.1	6.5	3.8	13.6	9.3	6.5	3.7	13.5	9.2	6.4		150
155	10.3	7.4	5.6	3.2	11.9	8.4	6.2	3.7	12.4	8.6	6.3	3.7	13	8.9	6.4	3.8	13.2	9	6.4	3.7	13.1	9	6.3	3.7	155
160	9.9	7.2	5.5	3.2	11.4	8.1	6.1	3.7	12	8.4	6.2	3.7	12.5	8.6	6.2	3.7	12.8	8.7	6.3	3.7	12.8	8.7	6.2	3.7	160
165	9.4	7	5.4		11	7.9	6	3.7	11.6	8.1	6.1	3.7	12.1	8.4	6.1	3.7	12.4	8.5	6.2	3.7	12.4	8.5	6.1	3.7	165
170	9	6.8	5.3		10.5	7.6	5.9		11.1	7.9	6	3.7	11.7	8.1	6	3.7	12.1	8.3	6.1	3.7	12.1	8.3	6.1	3.7	170
175	8.6	6.6	5.2		10.1	7.4	5.8		10.7	7.7	5.9		11.3	7.9	5.9	3.7	11.7	8	6	3.7	11.8	8.1	6	3.7	175
180	8.3	6.5	5.1		9.7	7.2	5.7		10.3	7.5	5.8		11	7.7	5.9		11.3	7.8	5.9	3.7	11.5	7.9	5.9	3.6	180
185	7.9	6.3	5		9.4	7.1	5.6		9.9	7.3	5.7		10.6	7.5	5.8		11	7.6	5.8		11.1	7.7	5.8	3.6	185
190	7.6	6.1	5		9	6.9	5.5		9.6	7.1	5.6		10.2	7.3	5.7		10.6	7.5	5.7		10.8	7.5	5.7	3.6	190
195	7.3	6	4.9		8.7	6.7	5.4		9.2	6.9	5.5		9.9	7.2	5.6		10.3	7.3	5.7		10.5	7.3	5.6		195
200	7.1	5.8	4.9		8.3	6.6	5.4		8.9	6.8	5.4		9.5	7	5.5		10	7.1	5.6		10.2	7.2	5.6		200
205	6.8	5.7	4.8		8	6.4	5.3		8.6	6.6	5.4		9.2	6.8	5.5		9.6	7	5.5		9.9	7	5.5		205
210	6.6	5.6			7.7	6.3	5.3		8.3	6.5	5.3		8.9	6.7	5.4		9.3	6.8	5.4		9.6	6.9	5.5		210
215	6.4	5.5			7.5	6.1	5.2		7.9	6.3	5.3		8.6	6.5	5.3		9	6.7	5.4		9.3	6.8	5.4		215
220	6.2	5.4			7.2	6			7.7	6.2	5.2		8.3	6.4	5.3		8.7	6.6	5.3		9	6.7	5.3		220
225	6	5.3			7	5.9			7.5	6.1	5.2		8	6.3	5.2		8.5	6.4	5.3		8.7	6.5	5.3		225
230	5.8	5.2			6.7	5.8			7.3	6			7.7	6.2	5.2		8.2	6.3	5.2		8.5	6.4	5.2		230
235	5.6	5.2			6.5	5.7			7	5.9			7.5	6.1	5.2		8	6.2	5.2		8.2	6.3	5.2		235
240	5.4				6.3	5.6			6.8	5.8			7.3	5.9			7.6	6.1	5.1		7.7	6.2	5.2		240
245	5.3				6.1	5.5			6.6	5.7			7.1	5.8			7.4	6	5.1		7.2	6.1	5.1		245
250	4.6				5.7	5.5			6.4	5.6			6.9	5.7			7.2	5.9	5.1		6.7	6	5.1		250
255					5.1				6.2	5.5			6.7	5.7			7	5.8			6.1	5.9	5.1		255
260					4				6	5.4			6.5	5.6			6.6	5.7			5.4	5.8	5.1		260
265									5.8	5.4			6.3	5.5			6.1	5.6			4.8	5.7			265
270									5.2	5.3			5.7	5.4			5.5	5.5			4.1	5.6			270
275									4.1				4.8	5.4			4.7	5.5			3.5	5.4			275
280													3.7	5.3			3.9	5.3			2.8	4.8			280
285														4.9			2.8	5.1				4.1			285
290																		4.4				3.5			290
295																		3.6							295

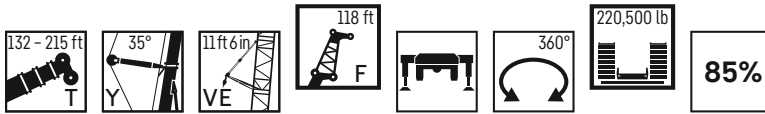
* adapter - pièce d'adaptateur

t_180_61601_00_000 / 61621_00_000 / 61641_00_000 / 61661_00_000

Lifting capacities

Forces de levage

TYVEF 118 ft



	132 ft + 20 ft*				149 ft + 20 ft*				165 ft + 20 ft*				182 ft + 20 ft*				198 ft + 20 ft*				215 ft + 20 ft*				
	F 118 ft																								
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
45	28.1																								45
50	26.7				27.7																				50
55	25.3				26.4				26																55
60	24.1				25.2				25				25												60
65	22.9				24.1				24				24				23.5								65
70	21.9				23				23				23				22.6				21.5				70
75	20.9				22				22				22.1				21.8				21				75
80	20				21.1				21.2				21.3				21				20.3				80
85	19.1	12.8			20.2				20.4				20.5				20.3				19.7				85
90	18.4	12.2			19.5	13.2			19.6				19.8				19.6				19.1				90
95	17.6	11.7			18.8	12.8			18.9	12.9			19.1				19				18.4				95
100	16.8	11.2			18	12.3			18.2	12.4			18.5	12.5			18.3				17.9				100
105	16.2	10.8			17.3	11.9			17.6	12			17.9	12.2			17.7	12.1			17.4				105
110	15.5	10.4			16.7	11.5			16.9	11.6			17.3	11.8			17.2	11.8			16.8	11.6			110
115	14.9	10	6.8		16.1	11.1			16.4	11.3			16.7	11.4			16.7	11.4			16.4	11.3			115
120	14.2	9.6	6.7		15.5	10.7	7.3		15.8	10.9			16.2	11.1			16.2	11.1			15.9	11			120
125	13.6	9.2	6.5		15	10.3	7.1		15.3	10.5	7.1		15.6	10.7			15.7	10.8			15.5	10.6			125
130	13	8.8	6.3		14.4	10	7		14.8	10.2	7		15.2	10.4	7		15.2	10.5			15.1	10.3			130
135	12.4	8.5	6.2	3.3	13.9	9.6	6.8		14.3	9.8	6.8		14.7	10.1	6.9		14.8	10.1	6.9		14.6	10.1			135
140	11.8	8.2	6	3.2	13.4	9.3	6.6	3.8	13.8	9.5	6.7		14.2	9.7	6.7		14.4	9.8	6.7		14.2	9.8	6.7		140
145	11.3	7.9	5.9	3.2	12.8	9	6.5	3.8	13.4	9.2	6.6	3.8	13.8	9.4	6.6	3.8	14	9.5	6.6		13.8	9.5	6.6		145
150	10.8	7.6	5.8	3.2	12.3	8.7	6.4	3.7	12.9	8.9	6.4	3.8	13.4	9.1	6.5	3.8	13.6	9.3	6.5	3.7	13.5	9.2	6.4		150
155	10.3	7.4	5.6	3.2	11.9	8.4	6.2	3.7	12.4	8.6	6.3	3.7	13	8.9	6.4	3.8	13.2	9	6.4	3.7	13.1	9	6.3	3.7	155
160	9.9	7.2	5.5	3.2	11.4	8.1	6.1	3.7	12	8.4	6.2	3.7	12.5	8.6	6.2	3.7	12.8	8.7	6.3	3.7	12.8	8.7	6.2	3.7	160
165	9.4	7	5.4		11	7.9	6	3.7	11.6	8.1	6.1	3.7	12.1	8.4	6.1	3.7	12.4	8.5	6.2	3.7	12.4	8.5	6.1	3.7	165
170	9	6.8	5.3		10.5	7.6	5.9		11.1	7.9	6	3.7	11.7	8.1	6	3.7	12.1	8.3	6.1	3.7	12.1	8.3	6.1	3.7	170
175	8.6	6.6	5.2		10.1	7.4	5.8		10.7	7.7	5.9		11.3	7.9	5.9	3.7	11.7	8	6	3.7	11.8	8.1	6	3.7	175
180	8.3	6.5	5.1		9.7	7.2	5.7		10.3	7.5	5.8		11	7.7	5.9		11.3	7.8	5.9	3.7	11.5	7.9	5.9	3.6	180
185	7.9	6.3	5		9.4	7.1	5.6		9.9	7.3	5.7		10.6	7.5	5.8		11	7.6	5.8		11.1	7.7	5.8	3.6	185
190	7.6	6.1	5		9	6.9	5.5		9.6	7.1	5.6		10.2	7.3	5.7		10.5	7.5	5.7		10.4	7.5	5.7	3.6	190
195	7.3	6	4.9		8.7	6.7	5.4		9.2	6.9	5.5		9.8	7.2	5.6		10.2	7.3	5.7		9.7	7.3	5.6		195
200	7.1	5.8	4.9		8.3	6.6	5.4		8.9	6.8	5.4		9.4	7	5.5		9.8	7.1	5.6		8.9	7.2	5.6		200
205	6.8	5.7	4.8		8	6.4	5.3		8.6	6.6	5.4		9.1	6.8	5.5		9.4	7	5.5		8	7	5.5		205
210	6.6	5.6			7.7	6.3	5.3		8.3	6.5	5.3		8.8	6.7	5.4		8.8	6.8	5.4		7.2	6.9	5.5		210
215	6.4	5.5			7.5	6.1	5.2		7.9	6.3	5.3		8.4	6.5	5.3		8.1	6.7	5.4		6.3	6.8	5.4		215
220	6.2	5.4			7.2	6			7.6	6.2	5.2		8.1	6.4	5.3		7.3	6.6	5.3		5.6	6.7	5.3		220
225	6	5.3			6.8	5.9			7.4	6.1	5.2		7.7	6.3	5.2		6.6	6.4	5.3		4.9	6.5	5.3		225
230	5.8	5.2			6.4	5.8			7.2	6			7.2	6.2	5.2		5.9	6.3	5.2		4.2	6.4	5.2		230
235	5.6	5.2			5.8	5.7			7	5.9			6.5	6.1	5.2		5.2	6.2	5.2		3.4	6.1	5.2		235
240	5.4				5.4	5.6			6.7	5.8			5.8	5.9			4.5	6.1	5.1		2.7	5.5	5.2		240
245	5.2				4.6	5.5			6.3	5.7			5.1	5.8			3.9	5.9	5.1			4.8	5.1		245
250	4.5				3.8	5.3			5.8	5.6			4.5	5.7			3.2	5.5	5.1			4.1	5.1		250
255					3.1				5.2	5.5			3.8	5.3			2.6	4.8				3.4	4.9		255
260									4.6	5.4			3.2	5				4.1				2.7	4.4		260
265									3.9	5.1				4.4				3.4							265
270									3.2	4.7				3.7											270
275									2.6					3											275

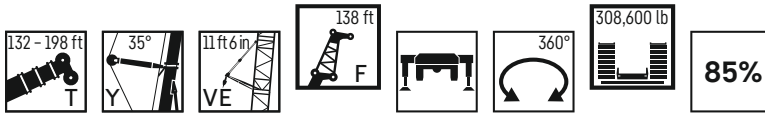
* adapter - pièce d'adaptateur

t_180_61605_00_000 / 61625_00_000 / 61645_00_000 / 61665_00_000

Lifting capacities

Forces de levage

TYVEF 138 ft



	132 ft + 20 ft*			149 ft + 20 ft*			165 ft + 20 ft*			182 ft + 20 ft*			198 ft + 20 ft*		
	0°	20°	40°	0°	20°	40°	F 138 ft			0°	20°	40°	0°	20°	
50	22.4														50
55	21.3			21.1											55
60	20.3			20.2			20.2			19.9					60
65	19.3			19.3			19.4			19.3					65
70	18.5			18.5			18.6			18.5			18		70
75	17.7			17.7			17.8			17.8			17.3		75
80	16.9			17			17.1			17.1			16.7		80
85	16.1			16.3			16.4			16.4			16.1		85
90	15.5			15.6			15.8			15.9			15.6		90
95	14.8	10		15			15.2			15.3			15		95
100	14.2	9.6		14.5	9.7		14.6			14.7			14.5		100
105	13.6	9.2		13.9	9.3		14.1	9.5		14.2			14.1		105
110	13.1	8.9		13.3	9		13.6	9.1		13.8	9.2		13.6		110
115	12.6	8.5		12.8	8.7		13.1	8.8		13.3	8.9		13.1	8.8	115
120	12.1	8.2		12.4	8.3		12.6	8.5		12.8	8.6		12.7	8.5	120
125	11.6	7.9		11.9	8		12.2	8.2		12.4	8.3		12.3	8.3	125
130	11.1	7.5		11.5	7.7		11.8	7.9		12	8		11.9	8	130
135	10.7	7.3	5.1	11.1	7.4	5.1	11.4	7.6		11.6	7.7		11.6	7.7	135
140	10.2	7	5	10.7	7.2	5	11	7.4	5	11.2	7.5		11.2	7.5	140
145	9.7	6.8	4.8	10.3	7	4.9	10.6	7.1	4.9	10.9	7.3	4.9	10.9	7.2	145
150	9.3	6.5	4.7	9.9	6.7	4.7	10.3	6.9	4.8	10.5	7	4.8	10.5	7	150
155	8.9	6.3	4.6	9.4	6.5	4.6	9.9	6.7	4.7	10.2	6.8	4.7	10.2	6.9	155
160	8.5	6.1	4.5	9	6.3	4.5	9.5	6.5	4.6	9.8	6.6	4.6	9.9	6.7	160
165	8.2	5.9	4.3	8.7	6.1	4.4	9.2	6.3	4.4	9.5	6.4	4.5	9.6	6.5	165
170	7.8	5.7	4.2	8.3	5.9	4.3	8.8	6.1	4.3	9.2	6.3	4.4	9.3	6.3	170
175	7.4	5.5	4.1	8	5.7	4.2	8.5	5.9	4.3	8.9	6.1	4.3	9	6.1	175
180	7.2	5.4	4	7.7	5.6	4.1	8.2	5.8	4.2	8.6	5.9	4.2	8.7	6	180
185	6.9	5.2	3.9	7.4	5.4	4	7.9	5.6	4.1	8.3	5.7	4.1	8.5	5.8	185
190	6.6	5.1	3.9	7.1	5.2	3.9	7.6	5.4	4	8	5.6	4.1	8.2	5.7	190
195	6.4	4.9	3.8	6.8	5.1	3.8	7.3	5.3	3.9	7.7	5.4	4	7.9	5.5	195
200	6.1	4.7	3.7	6.6	5	3.8	7	5.1	3.8	7.5	5.3	3.9	7.6	5.4	200
205	5.8	4.6	3.6	6.4	4.8	3.7	6.8	5	3.8	7.2	5.2	3.8	7.4	5.3	205
210	5.6	4.5	3.6	6.1	4.7	3.6	6.6	4.9	3.7	6.9	5	3.8	7.2	5.1	210
215	5.4	4.4	3.5	5.9	4.6	3.6	6.4	4.7	3.6	6.7	4.9	3.7	7	5	215
220	5.2	4.2	3.5	5.7	4.4	3.5	6.1	4.6	3.6	6.5	4.8	3.7	6.7	4.9	220
225	5	4.1	3.4	5.5	4.3	3.5	5.9	4.5	3.5	6.3	4.7	3.6	6.5	4.8	225
230	4.8	4		5.3	4.2	3.4	5.7	4.4	3.5	6.1	4.5	3.5	6.3	4.7	230
235	4.6	3.9		5.1	4.1	3.4	5.5	4.3	3.5	5.9	4.5	3.5	6.1	4.5	235
240	4.5	3.9		4.9	4		5.3	4.2	3.4	5.7	4.4	3.5	6	4.4	240
245	4.3	3.8		4.7	3.9		5.2	4.1	3.4	5.5	4.3	3.4	5.8	4.3	245
250	4.1	3.7		4.6	3.9		5	4		5.4	4.2	3.4	5.6	4.3	250
255	4	3.6		4.4	3.8		4.8	3.9		5.2	4.1	3.4	5.4	4.2	255
260	3.8			4.3	3.7		4.6	3.8		5	4		5.2	4.1	260
265	3.7			4.1	3.6		4.5	3.8		4.9	3.9		5.1	4	265
270				3.9			4.3	3.7		4.7	3.8		4.9	3.9	270
275				3.6			4.2	3.6		4.5	3.8		4.7	3.9	275
280							4	3.6		4.4	3.7		4.5	3.8	280
285							3.7			4.2	3.6		4.2	3.7	285
290							3.4			3.5	3.6		3.5	3.7	290
295										2.8	3.5			3.4	295
300											3.5				300
305											2.6				305

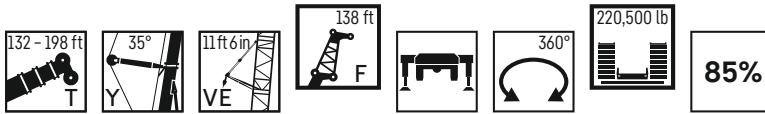
* adapter - pièce d'adaptateur

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Lifting capacities

Forces de levage

TYVEF 138 ft



	132 ft + 20 ft*			149 ft + 20 ft*			165 ft + 20 ft*			182 ft + 20 ft*			198 ft + 20 ft*		
	0°	20°	40°	0°	20°	40°	F 138 ft			0°	20°	40°	0°	20°	
50	22.4														50
55	21.3			21.1											55
60	20.3			20.2			20.2			19.9					60
65	19.3			19.3			19.4			19.3					65
70	18.5			18.5			18.6			18.5			18		70
75	17.7			17.7			17.8			17.8			17.3		75
80	16.9			17			17.1			17.1			16.7		80
85	16.1			16.3			16.4			16.4			16.1		85
90	15.5			15.6			15.8			15.9			15.6		90
95	14.8	10		15			15.2			15.3			15		95
100	14.2	9.6		14.5	9.7		14.6			14.7			14.5		100
105	13.6	9.2		13.9	9.3		14.1	9.5		14.2			14.1		105
110	13.1	8.9		13.3	9		13.6	9.1		13.8	9.2		13.6		110
115	12.6	8.5		12.8	8.7		13.1	8.8		13.3	8.9		13.1	8.8	115
120	12.1	8.2		12.4	8.3		12.6	8.5		12.8	8.6		12.7	8.5	120
125	11.6	7.9		11.9	8		12.2	8.2		12.4	8.3		12.3	8.3	125
130	11.1	7.5		11.5	7.7		11.8	7.9		12	8		11.9	8	130
135	10.7	7.3	5.1	11.1	7.4	5.1	11.4	7.6		11.6	7.7		11.6	7.7	135
140	10.2	7	5	10.7	7.2	5	11	7.4	5	11.2	7.5		11.2	7.5	140
145	9.7	6.8	4.8	10.3	7	4.9	10.6	7.1	4.9	10.9	7.3	4.9	10.9	7.2	145
150	9.3	6.5	4.7	9.9	6.7	4.7	10.3	6.9	4.8	10.5	7	4.8	10.5	7	150
155	8.9	6.3	4.6	9.4	6.5	4.6	9.9	6.7	4.7	10.2	6.8	4.7	10.2	6.9	155
160	8.5	6.1	4.5	9	6.3	4.5	9.5	6.5	4.6	9.8	6.6	4.6	9.9	6.7	160
165	8.2	5.9	4.3	8.7	6.1	4.4	9.2	6.3	4.4	9.5	6.4	4.5	9.6	6.5	165
170	7.8	5.7	4.2	8.3	5.9	4.3	8.8	6.1	4.3	9.2	6.3	4.4	9.3	6.3	170
175	7.4	5.5	4.1	8	5.7	4.2	8.5	5.9	4.3	8.9	6.1	4.3	9	6.1	175
180	7.2	5.4	4	7.7	5.6	4.1	8.2	5.8	4.2	8.6	5.9	4.2	8.7	6	180
185	6.9	5.2	3.9	7.4	5.4	4	7.9	5.6	4.1	8.3	5.7	4.1	8.5	5.8	185
190	6.6	5.1	3.9	7.1	5.2	3.9	7.6	5.4	4	8	5.6	4.1	8.2	5.7	190
195	6.4	4.9	3.8	6.8	5.1	3.8	7.3	5.3	3.9	7.7	5.4	4	7.9	5.5	195
200	6.1	4.7	3.7	6.6	5	3.8	7	5.1	3.8	7.5	5.3	3.9	7.6	5.4	200
205	5.8	4.6	3.6	6.4	4.8	3.7	6.8	5	3.8	7.2	5.2	3.8	7.4	5.3	205
210	5.6	4.5	3.6	6.1	4.7	3.6	6.6	4.9	3.7	6.9	5	3.8	7.1	5.1	210
215	5.4	4.4	3.5	5.9	4.6	3.6	6.4	4.7	3.6	6.7	4.9	3.7	6.9	5	215
220	5.2	4.2	3.5	5.7	4.4	3.5	6.1	4.6	3.6	6.5	4.8	3.7	6.6	4.9	220
225	5	4.1	3.4	5.5	4.3	3.5	5.9	4.5	3.5	6.2	4.7	3.6	6.4	4.8	225
230	4.8	4		5.3	4.2	3.4	5.7	4.4	3.5	6	4.5	3.5	6	4.7	230
235	4.6	3.9		5.1	4.1	3.4	5.4	4.3	3.5	5.8	4.5	3.5	5.4	4.5	235
240	4.5	3.9		4.9	4		5.3	4.2	3.4	5.6	4.4	3.5	4.8	4.4	240
245	4.3	3.8		4.7	3.9		5.1	4.1	3.4	5.2	4.3	3.4	4.2	4.3	245
250	4.1	3.7		4.5	3.9		4.9	4		4.7	4.2	3.4	3.5	4.2	250
255	4	3.6		4.2	3.8		4.7	3.9		4.2	4	3.4	2.9	4.1	255
260	3.8			3.6	3.7		4.5	3.8		3.7	4			3.6	260
265	3.7			2.9	3.6		4.2	3.8		3.1	3.9			2.9	265
270							3.9	3.7		2.5	3.6				270
275							3.4	3.6			3				275
280							2.8	3.6							280

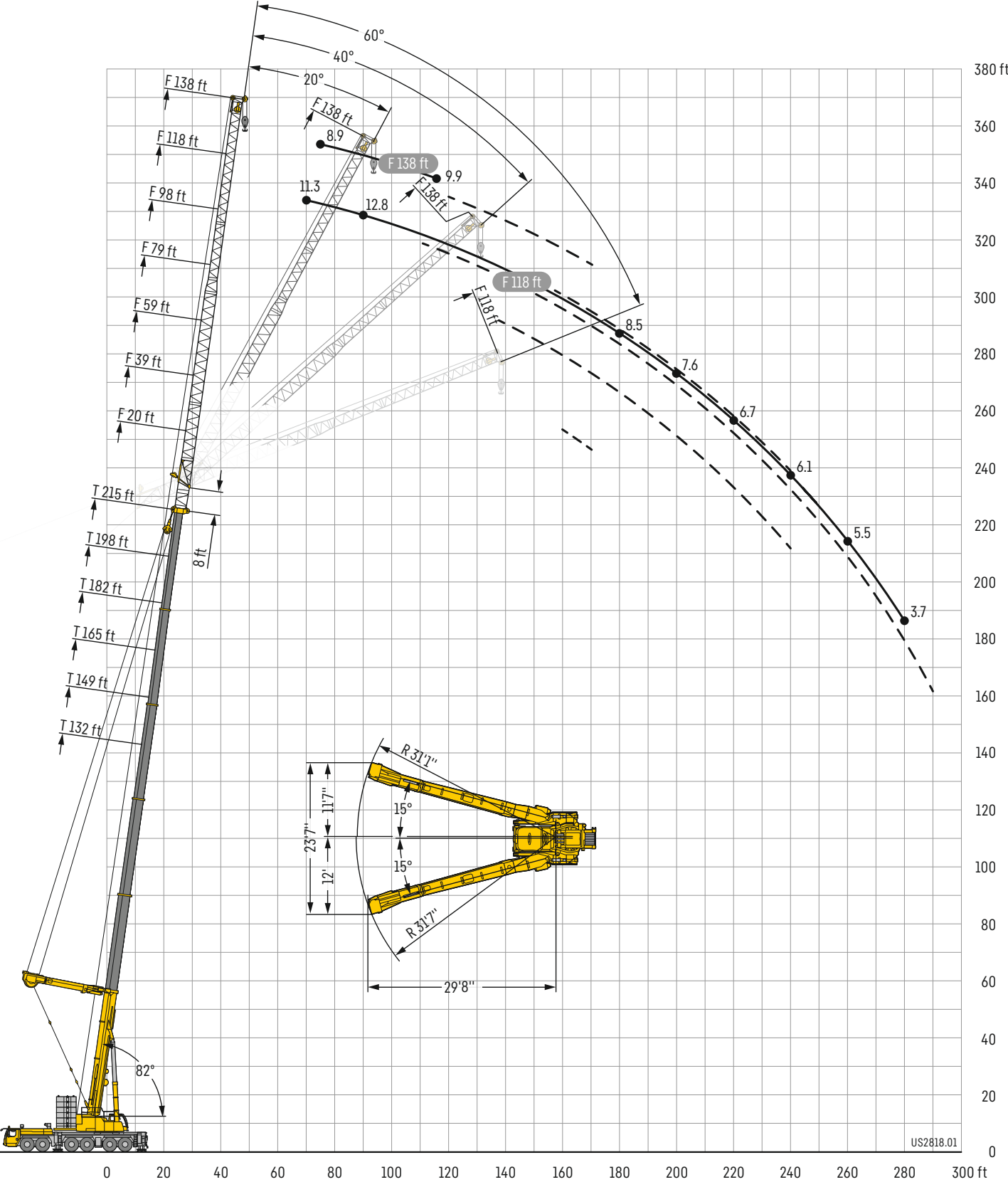
* adapter - pièce d'adaptateur

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Lifting heights

Hauteurs de levage

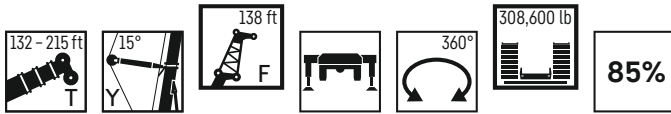
TYF



Lifting capacities

Forces de levage

TYF 138 ft



	132 ft + 8 ft*			149 ft + 8 ft*			149 ft + 8 ft*			182 ft + 8 ft*			198 ft + 8 ft*			215 ft + 8 ft*			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
50	17.6																		50
55	17.1																		55
60	16.4			16.9			16.7			16.4									60
65	15.7			16.3			16.4			15.9									65
70	15.1			15.7			15.8			15.3									70
75	14.5			15.2			14.6			14.7			13.2						75
80	13.9			14.5			14.1			14.2			13.4			8.9			80
85	13.3			13.9			13.6			13.7			13.1			9.1			85
90	12.8			13.4			13.1			13.2			12.7			9.3			90
95	12.3			12.9			12.6			12.8			12.3			9.6			95
100	11.8	8.2		12.4			12.2			12.3			11.9			10			100
105	11.3	7.9		11.6	8		11.8	8		11.9			11.5			10.2			105
110	10.8	7.6		11.1	7.8		11.4	7.9		11.5			11.2			10.2			110
115	10.3	7.3		10.7	7.5		11	7.6		11.2	7.9		10.8	7.6		10			115
120	9.9	7		10.3	7.2		10.6	7.1		10.8	7.3		10.5	7.2		9.9			120
125	9.4	6.7		9.9	6.8		10.2	6.9		10.4	7.1		10.2	7			6.8		125
130	9	6.5		9.4	6.5		9.9	6.7		10.1	6.9		9.9	6.8			6.6		130
135	8.6	6.3	4.6	9.1	6.3	4.6	9.5	6.5		9.7	6.6		9.6	6.6			6.5		135
140	8.3	6.1	4.5	8.7	6.1	4.5	9.1	6.3	4.5	9.4	6.4	4.6	9.3	6.4			6.3		140
150	7.5	5.6	4.2	8	5.7	4.3	8.4	5.9	4.4	8.8	6	4.4	8.7	6	4.4		6.1	4.2	150
160	7	5.3	4	7.4	5.4	4.1	7.8	5.5	4.2	8.2	5.7	4.2	8.1	5.7	4.2		5.8	4	160
170	6.4	4.9	3.8	6.8	5.1	3.9	7.2	5.2	4	7.6	5.4	4	7.6	5.4	4		5.5	3.9	170
180	5.9	4.6	3.6	6.4	4.8	3.7	6.7	4.9	3.8	7	5.1	3.9	7.1	5.1	3.8		5.2		180
190	5.5	4.4	3.5	5.9	4.5	3.6	6.2	4.7	3.7	6.6	4.8	3.7	6.6	4.8	3.7		3.7		190
200	5.1	4.1	3.4	5.5	4.3	3.5	5.8	4.4	3.5	6.2	4.6	3.6	6.3	4.6	3.6		3.6		200
210	4.7	3.9	3.3	5.1	4	3.3	5.5	4.2	3.4	5.8	4.4	3.5	5.9	4.4	3.5		3.5		210
220	4.4	3.7		4.8	3.8		5.1	4	3.3	5.4	4.1	3.4	5.5	4.2	3.4		3.4		220
230	4.1	3.5		4.5	3.7		4.8	3.8	3.2	5.1	3.9	3.3	5.2	4	3.3		3.3		230
240	3.8	3.4		4.2	3.5		4.5	3.6		4.8	3.8	3.2	4.9	3.8	3.2		3.2		240
250	3.5			3.9	3.4		4.2	3.5		4.5	3.6		4.6	3.7	3.2				250
260	3.2			3.7	3.3		4	3.4		4.2	3.5		4.4	3.5					260
270							3.8	3.3		4	3.4		4.2	3.4					270
280							3.5			3.8	3.3		3.9	3.3					280
290													3.6	3.2					290
300													3.2						300

* adapter - pièce d'adaptateur

t_180_18701_00_000 / 18721_00_000 / 18741_00_000



	132 ft + 8 ft*			149 ft + 8 ft*			149 ft + 8 ft*			182 ft + 8 ft*			198 ft + 8 ft*			215 ft + 8 ft*			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
50	17.7																		50
55	17.1																		55
60	16.4			16.9			16.7			16.4									60
65	15.7			16.3			16.4			15.9									65
70	15.1			15.7			15.8			15.3									70
75	14.5			15.2			14.6			14.7			13.2						75
80	13.9			14.5			14.1			14.2			13.4			8.9			80
85	13.3			13.9			13.6			13.7			13.1			9.1			85
90	12.8			13.4			13.1			13.2			12.7			9.3			90
95	12.3			12.9			12.6			12.8			12.3			9.6			95
100	11.8	8.2		12.4			12.2			12.3			11.9			10			100
105	11.3	7.9		11.6	8		11.8	8		11.9			11.5			10.2			105
110	10.8	7.6		11.1	7.8		11.4	7.9		11.5			11.2			10.2			110
115	10.3	7.3		10.7	7.5		11	7.6		11.2	7.9		10.8	7.6		10			115
120	9.9	7		10.3	7.2		10.6	7.1		10.8	7.3		10.5	7.2		9.9			120
125	9.4	6.7		9.9	6.8		10.2	6.9		10.4	7.1		10.2	7			6.8		125
130	9	6.5		9.4	6.5		9.9	6.7		10.1	6.9		9.9	6.8			6.6		130
135	8.6	6.3	4.6	9.1	6.3	4.6	9.5	6.5		9.7	6.6		9.6	6.6			6.5		135
140	8.3	6.1	4.5	8.7	6.1	4.5	9.1	6.3	4.5	9.4	6.4	4.6	9.3	6.4			6.3		140
150	7.5	5.6	4.2	8	5.7	4.3	8.4	5.9	4.4	8.8	6	4.4	8.7	6	4.4		6.1	4.2	150
160	7	5.3	4	7.4	5.4	4.1	7.8	5.5	4.2	8.2	5.7	4.2	8.1	5.7	4.2		5.8	4	160
170	6.4	4.9	3.8	6.8	5.1	3.9	7.2	5.2	4	7.6	5.4	4	7.6	5.4	4		5.5	3.9	170
180	5.9	4.6	3.6	6.4	4.8	3.7	6.7	4.9	3.8	7	5.1	3.9	7.1	5.1	3.8		5.2		180
190	5.5	4.4	3.5	5.9	4.5	3.6	6.2	4.7	3.7	6.6	4.8	3.7	6.6	4.8	3.7		3.7		190
200	5.1	4.1	3.4	5.5	4.3	3.5	5.8	4.4	3.5	6.2	4.6	3.6	6.3	4.6	3.6		3.6		200
210	4.7	3.9	3.3	5.1	4	3.3	5.5	4.2	3.4	5.8	4.4	3.5	5.9	4.4	3.5		3.5		210
220	4.4	3.7		4.8	3.8		5.1	4	3.3	5.4	4.1	3.4	5.5	4.2	3.4		3.4		220
230	4.1	3.5		4.5	3.7		4.8	3.8	3.2	5.1	3.9	3.3	5.1	4	3.3		3.3		230
240	3.8	3.4		4.2	3.5		4.5	3.6		4.7	3.8	3.2	4.8	3.8	3.2		3.2		240
250	3.5			3.9	3.4		4.2	3.5		4.4	3.6		4.3	3.7	3.2				250
260	3.2			3.6	3.3		3.9	3.4		4.1	3.5		3.4	3.5					260
270							3.7	3.3		3.4	3.4			3.4					270
280							3.3			3.3	3.3			3					280

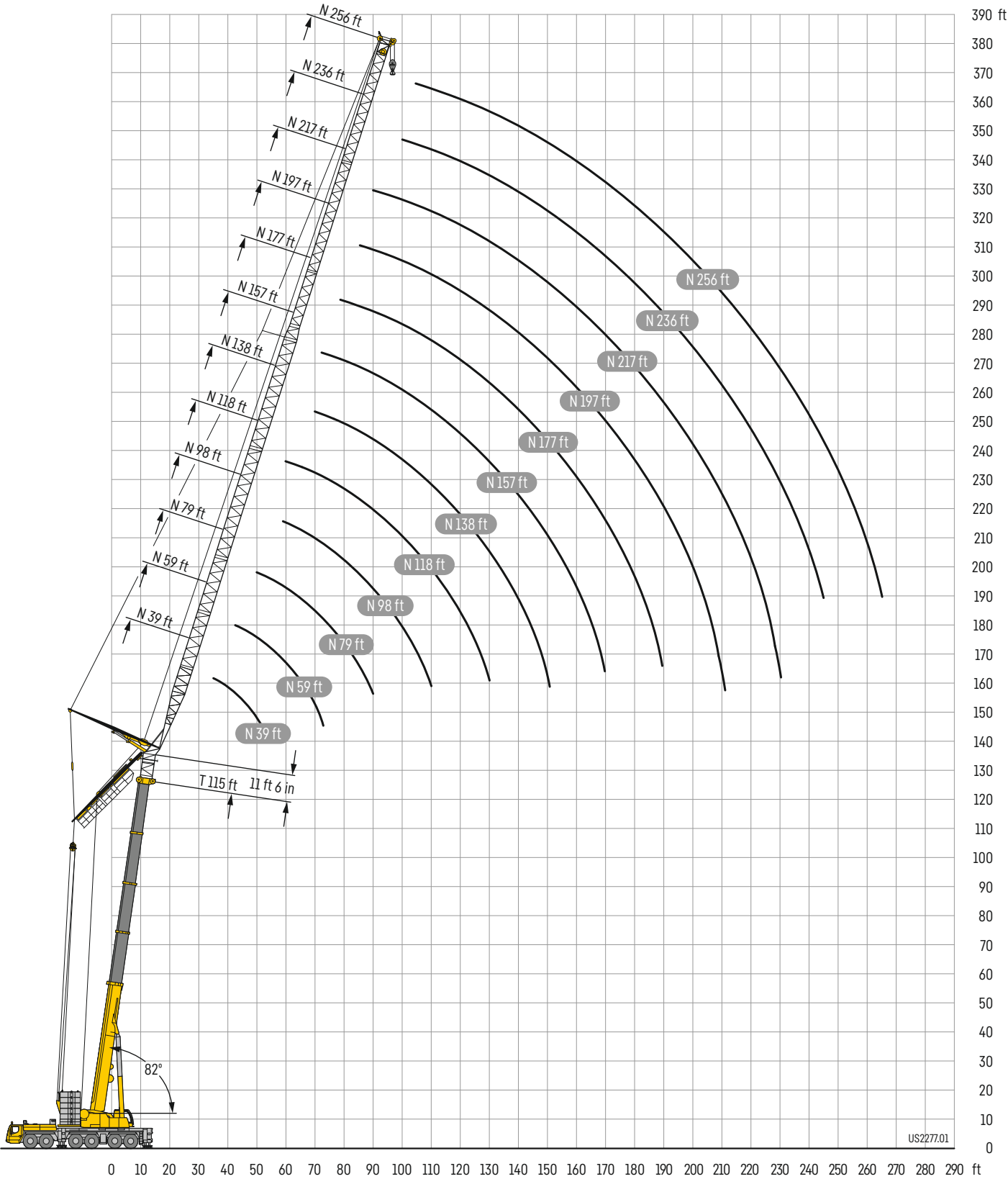
* adapter - pièce d'adaptateur

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Lifting heights

Hauteurs de levage

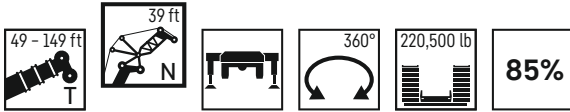
TN



Lifting capacities

Forces de levage

TN 39 – 59 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			132 ft + 11 ft 6 in*			149 ft + 11 ft 6 in*		
	N 39 ft**																				
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
22	156.1																				22
24	156.1																				24
26	156.1			156.1																	26
28	156.1			156.1																	28
30	155.6			155.8			142.3														30
32	153.5			154.6			143.2														32
34	150.1			152.9			143.4			117.6											34
36	145.6	147.8		150.9			143			117.9											36
38	139.7	142.1		147.3	149.4		141.5			118.1			98.5			75.1					38
40	132.9	136.7		142.5	148.2		140			118.3			98.6			75					40
42	124.2	132.3		135.2	144.7		138.9			118.7			98.7			74.9			57.9		42
44		128.6	129.3	127.1	140.7		135.4	136.9		119.3			99			74.9			57.9		44
46		125.2	128		136.6			135.8		119.9			99.3			74.9			57.8		46
48		121	123.8		133.2			132.9		119.5			99.8			74.6			57.8		48
50			119.5		129.9		127.1	130		119.2	114		100.3			74.4			57.8		50
55							119.2	120.9			112			94.6					57.8		55
60							109				106.8			93.9							60
65									96.3		98.3			93.2			62.1				65
70												84.8					59			49.4	70
75												79				76.2				47.5	75
80																71.2					80
85																66.5			45.8		85
90																			43.3		90

* adapter - pièce d'adaptateur

** Hookblock with deadweight of 6615 lb necessary · Moufle à crochet de poids minimal de 6615 lb nécessaire

t_180_54105_00_000



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			
	N 59 ft***															
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
28	130.7															28
30	130.1															30
32	128.4			121.7												32
34	126.6			121.6												34
36	124.7			121			108.4									36
38	122.7			119.6			108.3			90.5						38
40	120.7			118.1			108.3			90.5						40
42	119			116.6			108.3			90.5			76.9			42
44	117.2	117.7		115.2			107.8			90.5			76.9			44
46	115.6	115.5		114			107.2			90.5			76.9			46
48	114.3	113.3		113			106.4			90.5			76.9			48
50	113.1	111		112	111		105.6			90.5			76.9			50
55	109.5	105.4		110.2	107.6		104.2	103.1		90.5			76.9			55
60	104	100.1	100.2	107.5	104.2		103.3	100.4		90.5			76.9			60
65		97.3	93.7	98.3	101.9		102.6	98		90.5	87.7		76.9	74.6		65
70			89.4		96.3			93.3		90.5	87.5		76.9	74.5		70
75						86.3		87.6	82.6		84.2			74.3		75
80						80.6			77.2		79.1	73.2		73.7		80
85									72.5		74.1	68.6		72.2		85
90												64.4				90
95												60.5			61.8	95
100															58.1 54.6	100

* adapter - pièce d'adaptateur

*** Hookblock with deadweight of 3200 lb necessary · Moufle à crochet de poids minimal de 3200 lb nécessaire

t_180_54205_00_000

	132 ft + 11 ft 6 in*			149 ft + 11 ft 6 in*			165 ft + 11 ft 6 in*			182 ft + 11 ft 6 in*		198 ft + 11 ft 6 in*		215 ft + 11 ft 6 in*	
	N 59 ft***														
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	82°	75°	82°	
44	59.7														44
46	59.7														46
48	59.6														48
50	59.6			45.8			34.7								50
55	59.6			45.7			34.6			25.4		18			55
60	59.5			45.7			34.5			25.3		18			60
65	59.4			45.7			34.4			25.3		17.9		11.9	65
70	58.8	54.1		45.7			34.4			25.2		17.9		11.8	70
75		52.7			42							17.9		11.7	75
80		50.6			41.3							17.9		11.6	80
85		48.5			40			30.9				17.9		11.5	85
90		46.7			38.7			30							90
95			40		37.5			29.1			22.4				95
100			38.3			31.7					22				100
105			36.5			30.9					21.4			15.8	105
110			35			29.5				22.3				15	110
115									21.6						115

* adapter - pièce d'adaptateur

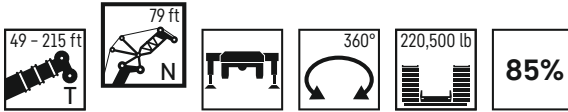
*** Hookblock with deadweight of 3200 lb necessary · Moufle à crochet de poids minimal de 3200 lb nécessaire

t_180_54205_00_000

Lifting capacities

Forces de levage

TN 79 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
36	101.5															36
38	100.3			94.6												38
40	99.1			94.4												40
42	97.8			93.9			84.5									42
44	96.6			93.2			84.4			71.7						44
46	95.3			92.4			84.4			71.7						46
48	94.3			91.5			84.3			71.7						48
50	93.2	92.2		90.6			84.1			71.7						50
55	90.7	90.4		88.7			83.3			71.7			61.7			55
60	88.4	87.3		87	86.5		82			71.7			61.8			60
65	86.9	84.5		85.7	84.1		80.9	80		71.7			62			65
70	86.3	82.2	81.9	85.1	82.1		80.2	78.4		71.7	69.6		62.3			70
75	86.2	80.4	78.8	84.8	80.4	80	80	76.9		71.6	69.3		62.5			75
80	82.4	79.1	75.6	84.1	79.1	77.8	80	75.8		71.6	68.7		62.6	59.9		80
85		78.5	72.7	81.3	78.3	74.9	80	74.9	71.6	71.6	68.1		62.5	59.9		85
90			71.3		74	70.7		71.6	67.6	71.6	67.7	63.4	62.5	59.8		90
95						66.7		67.9	63.7			65.4	59.8		55.1	95
100									60			61.8	56.3		53.6	100
105									56.5				53.1		50.6	105
110													50.3		47.9	110
115													47.6		45.4	115
120															43.1	120

* adapter - pièce d'adaptateur

t_180_54305_00_000

	132 ft + 11 ft 6 in*			149 ft + 11 ft 6 in*			165 ft + 11 ft 6 in*			182 ft + 11 ft 6 in*			198 ft + 11 ft 6 in*			215 ft + 11 ft 6 in*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
50	48																	50
55	47.9			36.7			27											55
60	47.8			36.5			27											60
65	47.7			36.3			27			19.9			13.8					65
70	47.6			36.3			27			19.8			13.7			7.6		70
75	47.6			36.3			27			19.7			13.6			7.6		75
80	47.6			36.3			27			19.7			13.4			7.5		80
85	47.4	44		36.3	34.9		27			19.7			13.3			7.4		85
90	47.1	42.8		36.3	34.4		27			19.7			13.3			7.4		90
95		41.5		36.3	33.6		27	25		19.7			13.2			7.3		95
100		40.2	35.4		32.7			24.4			18		13.2			7.3		100
105		38.9	35.2		31.8			23.8			17.7							105
110		37.8	33.5		31			23.3			17.3			11.7				110
115			32.1		30.3	26.7		22.7			16.9			11.6			5.9	115
120			30.8			25.7			18.5		16.5			11.6			5.9	120
125						24.7			18.2					11.4			5.9	125
130						23.7			17.4					11.2			5.9	130
135									16.8			11.9						135
140												11.5			7.4			140
145															7.3			145
150															7			150

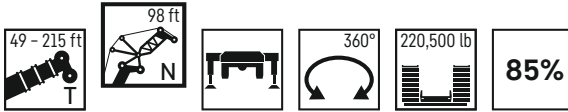
* adapter - pièce d'adaptateur

t_180_54305_00_000

Lifting capacities

Forces de levage

TN 98 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
42	78.7															42
44	78.1															44
46	77.4			73.3												46
48	76.8			73												48
50	76.1			72.8			65.9			56.9						50
55	74.5			71.9			65.8			56.7			49.2			55
60	73			70.7			65.7			56.5			49.2			60
65	71.6	70.5		69.7	68.7		65.2			56.3			49			65
70	70.4	68.8		68.7	67.5		64.6	63.4		56.3			48.9			70
75	69.4	67.3		67.9	66.2		64	62.7		56.2			48.9			75
80	68.9	66	65.2	67.4	65.1		63.5	61.8		56.2	54.7		48.9			80
85	68.7	64.8	63.5	67.3	64.1	63.3	63.3	60.9		56.2	54.7		48.9	47.2		85
90	68.7	64.1	62.1	67.2	63.4	62.1	63.3	60.3		56.2	54.5		48.9	47.2		90
95	65.2	63.9	61	67.2	63	60.9	63.3	59.8	58.6	56.2	54.1		48.9	47.2		95
100		63.9	60.1	64.8	62.7	59.9	63.3	59.5	57.4	56.2	53.9	52.7	48.9	47.2		100
105		63.9	59.7		62.2	58.9		59.4	55.9	56.2	53.7	52.1	48.9	47.2		105
110			57.9		59	55.8		56.8	52.9		53.6	49.4	48.9	47.2	45.7	110
115					52.9			54	50.2		51.7	46.8		47.2	44.4	115
120									47.6		49	44.4			46.7	120
125									45.2			42.2			40.3	125
130												40.2			38.4	130
135												38.3			36.6	135
140															34.9	140

* adapter - pièce d'adaptateur

t_180_54405_00_000

	132 ft + 11 ft 6 in*			149 ft + 11 ft 6 in*			165 ft + 11 ft 6 in*			182 ft + 11 ft 6 in*			198 ft + 11 ft 6 in*			215 ft + 11 ft 6 in*	
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	
55	39																55
60	38.9																60
65	38.7			29			22.2										65
70	38.6			28.9			22.1			15.8			9.4				70
75	38.5			28.7			22			15.7			9.3			4.1	75
80	38.4			28.6			21.8			15.6			9.2			4	80
85	38.4			28.6			21.7			15.5			9.1			4	85
90	38.4	36.9		28.6			21.7			15.4			9			3.9	90
95	38.4	36.4		28.6	27.8		21.7			15.3			8.9			3.8	95
100	38.4	35.8		28.6	27.8		21.7	20.7		15.2			8.8			3.8	100
105	38.4	35.1		28.6	27.6		21.7	20.5		15.2			8.8			3.7	105
110	38.4	34.2		28.6	27.2		21.7	20.1		15.2	13.9		8.7			3.7	110
115		33.4	29.6	28.6	26.7		21.7	19.7		15.2	13.8		8.7	7.5		3.7	115
120		32.6	28.9		26.1	22.7		19.3			13.7		8.7	7.5		3.7	120
125		31.9	27.7		25.6	22.6		18.9			13.6			7.5			125
130		31.2	26.7		25.1	21.8		18.5			13.3			7.4			130
135			25.8		24.7	21		18.1	15		13			7.4			135
140			25			20.3			14.6		12.7	9.7		7.4			140
145						19.6			14			9.6		7.3			145
150						19			13.5			9.2		7.3			150
155									13			8.8			5.5		155
160												8.4			5.4		160
165															5.2		165
170															4.9		170

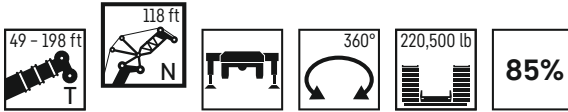
* adapter - pièce d'adaptateur

t_180_54405_00_000

Lifting capacities

Forces de levage

TN 118 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
50	61.8			57.6									39.8			50
55	61.3			57.3			52.3			45.4						55
60	60.3			57			52			45.3			39.8			60
65	59.2			57			51.7			45.1			39.5			65
70	58.1	57.4		56.3			51.5			45			39.4			70
75	57.2	56.5		55.6	54.9		51.4			44.8			39.3			75
80	56.4	55.4		55	54.1		51.3	50.2		44.7			39.2			80
85	55.6	54.3		54.3	53.3		51.1	50.1		44.7	43.4		39.2			85
90	55.1	53.4	52.7	53.9	52.4		50.7	49.6		44.7	43.2		39.1	38		90
95	54.2	52.5	51.8	53.5	51.7	51	50.4	49		44.7	43.1		39.1	37.9		95
100	52.9	51.8	50.7	52.6	51.1	50.4	49.8	48.5	47.6	44.7	43.1		39.1	37.8		100
105	51.3	51.3	49.8	51.1	50.6	49.5	48.8	48.1	47.3	44.7	43.1		39.1	37.7		105
110	49.7	50.6	49	49.6	50.3	48.7	47.4	47.7	46.6	44.6	43.1	42.4	39.1	37.7		110
115	48	49.6	48.5	48.1	49.6	48.1	46.1	47.5	46	44.2	43.1	42.2	39.1	37.7		115
120		48.3	48.1	46.7	48.5	47.7	44.8	47	45.5	43.4	43.1	41.8	39.1	37.7	36.9	120
125		46.8	47.8		47.3	47.2		45.8	44.9	42.6	43.1	41.4	39.1	37.7	37.1	125
130			46.8		46	45		44.6	42.8		43	39.7	39.1	37.7	37.2	130
135						42.9		43.5	40.8		41.9	38		37.7	35.9	135
140									39		40.2	36.2		37.6	34.3	140
145									37.2			34.6			32.7	145
150												33.1			31.3	150
155												31.7			30	155
160															28.7	160

* adapter - pièce d'adaptateur

t_180_54505_00_000

	132 ft + 11 ft 6 in*			149 ft + 11 ft 6 in*			165 ft + 11 ft 6 in*			182 ft + 11 ft 6 in*			198 ft + 11 ft 6 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
65	31.8															65
70	31.7			23.2			17.9									70
75	31.5			23.1			17.8			11.6			5.9			75
80	31.4			23			17.7			11.5			5.8			80
85	31.3			22.9			17.6			11.3			5.7			85
90	31.3			22.8			17.6			11.2			5.6			90
95	31.3	30.1		22.8			17.5			11.1			5.5			95
100	31.3	30.1		22.8			17.5			11			5.5			100
105	31.3	30		22.8	22.1		17.4			10.9			5.4			105
110	31.3	29.7		22.8	22.1		17.4	16.3		10.9			5.4			110
115	31.3	29.4		22.8	22.2		17.3	16.2		10.8	9.7		5.3			115
120	31.3	29		22.8	22.1		17.3	16.1		10.8	9.6		5.3	4.2		120
125	31.3	28.5		22.8	22		17.3	16		10.7	9.6		5.3	4.2		125
130	31.3	28	25.1	22.8	21.7		17.3	15.9		10.7	9.5		5.3	4.1		130
135		27.4	24.3	22.8	21.4	18.9	17.3	15.7		10.7	9.4		5.3	4.1		135
140		26.9	23.4		21.1	18.5		15.4			9.4		5.3	4.1		140
145		26.4	22.6		20.7	17.9		15.1			9.4			4.1		145
150		26	21.9		20.4	17.4		14.8	12.2		9.4			4		150
155			21.2		20.2	16.8		14.5	11.8		9.4	7.5		4		155
160			20.6			16.3			11.3		9.4	7.3		4		160
165						15.8			10.9			7		4		165
170						15.4			10.5			6.7		4		170
175									10.1			6.4			3.5	175
180												6.2			3.5	180
185															3.4	185
190															3.2	190

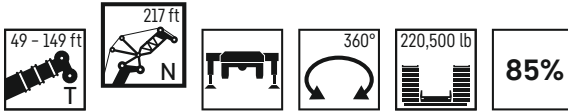
* adapter - pièce d'adaptateur

t_180_54505_00_000

Lifting capacities

Forces de levage

TN 217 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			132 ft + 11 ft 6 in*			149 ft + 11 ft 6 in*			
	N 217 ft																					
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
85	20.3			19.3			17.9															85
90	20.2			19.1			17.7			15.6			13.4									90
95	20			18.9			17.5			15.5			13.4			9.1			4.4			95
100	19.8			18.7			17.4			15.4			13.3			8.9			4.3			100
105	19.6			18.6			17.2			15.2			13.1			8.8			4.2			105
110	19.4			18.5			17			15.1			13			8.6			4.1			110
115	19.2	19		18.3			16.9			15			12.8			8.5			4			115
120	19.1	18.9		18.2	18		16.8			14.9			12.7			8.4			3.9			120
125	19	18.7		18.1	17.8		16.8	16.5		14.8			12.5			8.3			3.8			125
130	18.9	18.6		18	17.7		16.7	16.4		14.7	14.4		12.4	11.9		8.2			3.8			130
135	18.8	18.5		17.8	17.5		16.6	16.3		14.6	14.3		12.3	11.8		8.1	7.5		3.7			135
140	18.7	18.4		17.7	17.4		16.5	16.2		14.6	14.2		12.3	11.7		8.1	7.4		3.6	3		140
145	18.6	18.3	17.9	17.6	17.3		16.4	16.1		14.6	14.2		12.3	11.7		8.1	7.3		3.6	3		145
150	18.6	18.2	17.8	17.5	17.1	16.8	16.4	16		14.5	14.1		12.3	11.7		8.1	7.3		3.6	3		150
155	18.5	18	17.7	17.5	17.1	16.8	16.3	15.9		14.5	14.1		12.3	11.7		8.1	7.3		3.6	3.1		155
160	18.4	17.9	17.6	17.5	17.1	16.8	16.3	15.8	15.6	14.5	14		12.3	11.7		8.1	7.3		3.6	3.2		160
165	18.3	17.8	17.5	17.4	17.1	16.8	16.2	15.8	15.5	14.5	14	13.7	12.3	11.7		8.1	7.3		3.6	3.3		165
170	18.3	17.6	17.3	17.4	17.1	16.8	16.2	15.7	15.4	14.5	14	13.6	12.3	11.7		8.1	7.3		3.6	3.3		170
175	18.3	17.5	17.1	17.4	17.1	16.7	16.2	15.6	15.3	14.5	13.9	13.5	12.3	11.7	11.7	8.1	7.3		3.6	3.4		175
180	18.2	17.4	17	17.4	17	16.7	16.2	15.6	15.3	14.5	13.9	13.5	12.3	11.7	11.7	8.1	7.3		3.6	3.5		180
185	18.2	17.4	16.8	17.4	17	16.6	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.7	8.1	7.3	7.5	3.6	3.6		185
190	18.1	17.4	16.7	17.4	17	16.5	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.7	8.1	7.3	7.5	3.6	3.6		190
195	18.1	17.4	16.6	17.4	17	16.4	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.7	8.1	7.3	7.5	3.6	3.7	3.3	195
200	18.1	17.4	16.5	17.4	17	16.3	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.6	8.1	7.3	7.5	3.6	3.8	3.3	200
205	18.1	17.4	16.5	17.4	17	16.3	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.6	8.1	7.3	7.5	3.6	3.8	3.4	205
210	18.1	17.4	16.5	17.4	17	16.2	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.6	8.1	7.3	7.5	3.6	3.8	3.6	210
215	17.5	17.4	16.5	17.4	17	16.2	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.6	8.1	7.3	7.5	3.6	3.7	3.7	215
220		17.4	16.5	17.2	17	16.2	16.2	15.6	15.3	14.5	13.9	13.4	12.3	11.7	11.6	8.1	7.3	7.5	3.6	3.7	3.7	220
225			16.5		17	16.2		15.6	15.3		13.9	13.4	12.3	11.7	11.6	8.1	7.3	7.5	3.6	3.7	3.8	225
230			16.5			16.2		15.6	15.3		13.9	13.4		11.7	11.6		7.3	7.5		3.7	3.8	230
235						16.2		15.6	15.3		13.9	13.4		11.7	11.6		7.3	7.5		3.7	3.8	235
240								15.3			13.9	13.4		11.7	11.6		7.3	7.3		3.7	3.7	240
245												13.3			11.6		7.3	7.1		3.7	3.7	245
250															11.6			6.9		3.7	3.7	250
255															11.5			6.7		3.7	3.7	255
260																		6.5			3.7	260
265																					3.7	265

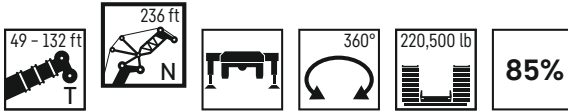
* adapter - pièce d'adaptateur

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Lifting capacities

Forces de levage

TN 236 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			132 ft + 11 ft 6 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 236 ft																		
90	15.9			15.1			13.9			12.2			10						90
95	15.8																		95
100	15.7			15			13.9			12.1			10			6.2			100
105	15.6			14.8			13.7			12			9.8			6			105
110	15.4			14.6			13.6			11.9			9.7			5.9			110
115	15.3			14.5			13.4			11.8			9.5			5.8			115
120	15.1			14.4			13.3			11.7			9.4			5.7			120
125	15	14.5		14.2	13.7		13.2			11.6			9.3			5.6			125
130	14.8	14.5		14.1	13.7		13			11.5			9.1			5.5			130
135	14.7	14.5		14	13.7		12.9	12.7		11.4			9			5.4			135
140	14.6	14.4		13.9	13.7		12.9	12.6		11.3	11		8.9			5.4			140
145	14.5	14.3		13.8	13.6		12.8	12.6		11.3	10.9		8.8	8.5		5.3			145
150	14.4	14.2		13.7	13.5		12.7	12.5		11.2	10.9		8.8	8.5		5.3			150
155	14.3	14.1		13.6	13.4		12.6	12.4		11.2	10.8		8.8	8.6		5.3	4.9		155
160	14.2	14	13.6	13.5	13.3		12.6	12.3		11.1	10.8		8.8	8.6		5.3	4.9		160
165	14.1	13.9	13.6	13.4	13.2	12.8	12.5	12.2		11.1	10.7		8.8	8.6		5.3	5		165
170	14.1	13.8	13.6	13.4	13.1	12.8	12.5	12.2		11.1	10.7		8.8	8.6		5.3	5		170
175	14.1	13.7	13.6	13.3	13.1	12.8	12.5	12.1	11.8	11	10.7		8.8	8.6		5.3	5.1		175
180	14.1	13.6	13.5	13.3	13	12.8	12.4	12.1	11.8	11	10.6	10.3	8.8	8.6		5.3	5.2		180
185	14	13.6	13.3	13.2	12.9	12.7	12.4	12	11.8	11	10.6	10.3	8.8	8.6	8.6	5.3	5.3		185
190	14	13.5	13.2	13.2	12.9	12.7	12.4	11.9	11.7	11	10.5	10.3	8.8	8.6	8.6	5.3	5.3		190
195	14	13.5	13.1	13.2	12.9	12.7	12.4	11.9	11.6	11	10.5	10.2	8.8	8.6	8.6	5.3	5.3	5	195
200	14	13.4	13	13.2	12.9	12.7	12.4	11.9	11.6	11	10.5	10.1	8.8	8.6	8.6	5.3	5.4	5.1	200
205	14	13.4	12.9	13.2	12.9	12.7	12.4	11.9	11.6	11	10.4	10.1	8.8	8.6	8.6	5.3	5.4	5.2	205
210	14	13.4	12.8	13.2	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.4	5.3	210
215	14	13.4	12.7	13.2	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.4	5.3	215
220	14	13.4	12.7	13.2	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.4	5.4	220
225	14	13.4	12.7	13.2	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.4	5.4	225
230	14	13.4	12.7	13.2	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.3	5.4	230
235	13.9	13.4	12.7	13.2	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.3	5.4	235
240		13.4	12.7	13	12.9	12.6	12.4	11.9	11.6	11	10.4	10	8.8	8.6	8.6	5.3	5.3	5.3	240
245			12.7		12.9	12.6		11.9	11.6		10.4	10	8.8	8.6	8.6	5.3	5.3	5.3	245
250			12.7			12.6		11.9	11.6		10.4	10		8.6	8.6		5.3	5.3	250
255						12.6		11.9	11.6		10.4	10		8.6	8.6		5.3	5.3	255
260									11.6			10		8.6	8.6		5.3	5.3	260
265												10			8.6		5.3	5.3	265
270															8.6			5.1	270
275															8.6			4.9	275
280																		4.8	280

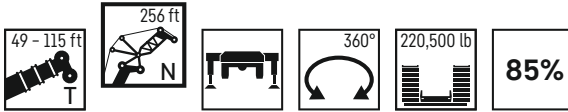
* adapter - pièce d'adaptateur

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Lifting capacities

Forces de levage

TN 256 ft



	49 ft + 11 ft 6 in*			66 ft + 11 ft 6 in*			82 ft + 11 ft 6 in*			99 ft + 11 ft 6 in*			115 ft + 11 ft 6 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
95	12.5															95
100	12.4			11.7			10.7			9			6.6			100
105	12.4			11.7			10.7			8.9			6.5			105
110	12.3			11.6			10.6			8.7			6.4			110
115	12.1			11.5			10.6			8.6			6.3			115
120	12			11.3			10.5			8.4			6.1			120
125	11.9			11.2			10.4			8.3			6			125
130	11.7			11.1			10.2			8.2			5.9			130
135	11.6	11.2		11			10.1			8.1			5.8			135
140	11.5	11.2		10.9	10.5		10	9.5		8			5.7			140
145	11.4	11.2		10.8	10.5		9.9	9.6		8	7.6		5.7			145
150	11.3	11.1		10.7	10.5		9.8	9.6		7.9	7.6		5.7			150
155	11.2	11		10.6	10.5		9.8	9.5		7.9	7.7		5.7	5.4		155
160	11	10.9		10.5	10.4		9.7	9.5		7.9	7.7		5.7	5.5		160
165	10.9	10.8	10	10.4	10.3		9.6	9.4		7.9	7.8		5.7	5.5		165
170	10.8	10.7	10.2	10.4	10.2		9.6	9.3		7.9	7.8		5.7	5.6		170
175	10.8	10.6	10.2	10.3	10.1	9.4	9.5	9.3		7.9	7.8		5.7	5.6		175
180	10.7	10.6	10.3	10.2	10	9.5	9.5	9.2	8.5	7.9	7.8		5.7	5.7		180
185	10.7	10.5	10.4	10.2	10	9.6	9.5	9.1	8.6	7.9	7.8	7.3	5.7	5.7		185
190	10.7	10.5	10.3	10.1	9.9	9.7	9.4	9.1	8.6	7.9	7.8	7.4	5.7	5.8		190
195	10.6	10.4	10.3	10.1	9.8	9.6	9.4	9	8.7	7.9	7.8	7.5	5.7	5.8		195
200	10.6	10.4	10.2	10.1	9.8	9.5	9.4	8.9	8.6	7.9	7.7	7.5	5.7	5.8	5.6	200
205	10.6	10.3	10	10.1	9.7	9.4	9.4	8.9	8.6	7.9	7.7	7.5	5.7	5.9	5.7	205
210	10.6	10.3	9.9	10.1	9.7	9.4	9.4	8.8	8.6	7.9	7.7	7.5	5.7	5.9	5.8	210
215	10.6	10.2	9.8	10.1	9.7	9.4	9.4	8.8	8.6	7.9	7.7	7.4	5.7	5.9	5.8	215
220	10.5	10.2	9.7	10	9.7	9.4	9.4	8.8	8.5	7.9	7.7	7.4	5.7	5.9	5.8	220
225	10.4	10.2	9.7	10	9.7	9.4	9.4	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	225
230	10.3	10.1	9.6	9.9	9.7	9.4	9.3	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	230
235	10.3	10.1	9.6	9.9	9.7	9.4	9.3	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	235
240	10.3	10.1	9.6	9.9	9.7	9.4	9.3	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	240
245	10.3	10.1	9.6	9.9	9.7	9.4	9.2	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	245
250	10.3	10.1	9.6	9.9	9.7	9.4	9.2	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	250
255	10.3	10.1	9.6	9.9	9.7	9.4	9.2	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	255
260		10.1		9.6	9.7	9.4	9.2	8.8	8.5	7.9	7.7	7.4	5.7	5.8	5.8	260
265			9.6		9.7	9.4		8.8	8.5		7.7	7.4	5.7	5.8	5.8	265
270			9.6			9.4		8.8	8.5		7.7	7.4		5.8	5.8	270
275						9.4		8.8	8.5		7.7	7.4		5.8	5.8	275
280									8.5			7.4		5.8	5.8	280
285												7.4			5.8	285
290															5.8	290
295															5.8	295

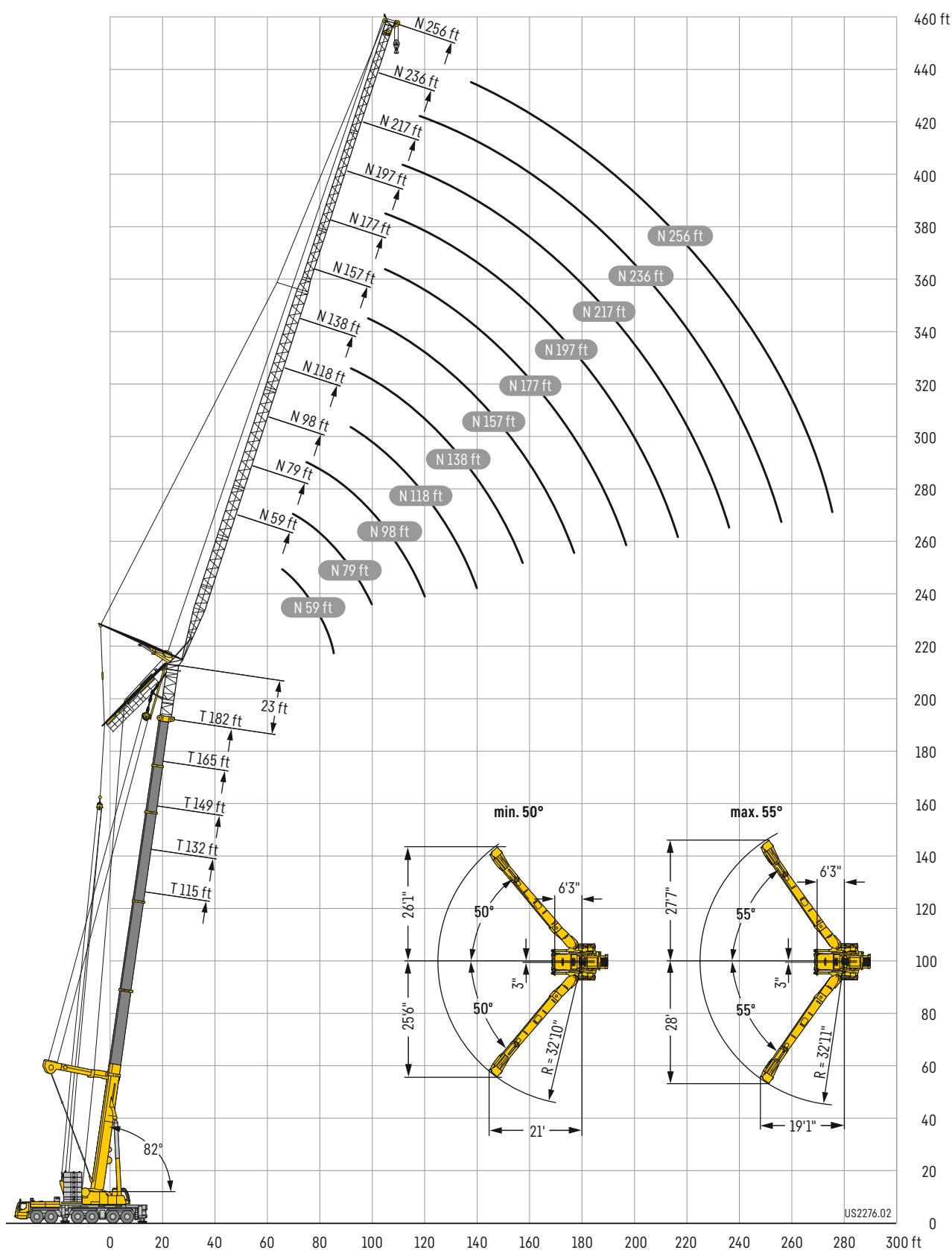
* adapter - pièce d'adaptateur

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Lifting heights

Hauteurs de levage

TYVEN



Angle of the Y-suspension between 50° and 55° depending on the extension condition of the individual telescopic sections
 Angle du haubanage Y entre 50° et 55°, en fonction de l'état de sortie des différents éléments télescopiques

Lifting capacities

Forces de levage

TYVEN 39 ft

115 - 149 ft

Y

11 ft 6 in

39 ft

360°

264,600 lb

85%

	115 ft + 23 ft*		132 ft + 23 ft*	149 ft + 23 ft*	
	N 39 ft**				
	82°	75°	82°	82°	
40	122.3				40
42	124.9				42
44	124.8				44
46	123.3		109.9		46
48	120.3		109.2		48
50	117.4		108.5	97.6	50
55			104.5	96.3	55
60					60
65		100.1			65
70		93.2			70

* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

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** Hookblock with deadweight of 6615 lb necessary • Moufle à crochet de poids minimal de 6615 lb nécessaire

115 - 149 ft

Y

11 ft 6 in

39 ft

360°

220,500 lb

85%

	115 ft + 23 ft*		132 ft + 23 ft*	149 ft + 23 ft*	
	N 39 ft**				
	82°	75°	82°	82°	
40	122.3				40
42	124.9				42
44	124.8				44
46	123.3		109.9		46
48	120.3		109.2		48
50	117.4		108.5	97.6	50
55			104.5	96.3	55
60					60
65		93.9			65
70		87.1			70

* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

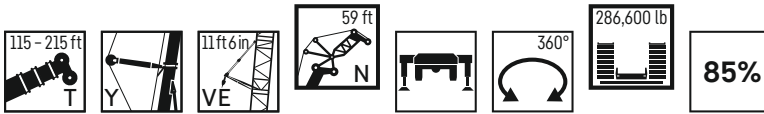
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** Hookblock with deadweight of 6615 lb necessary • Moufle à crochet de poids minimal de 6615 lb nécessaire

Lifting capacities

Forces de levage

TYVEN 59 ft

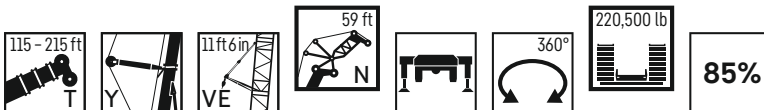


	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 59 ft***																					
46	83.5																					46
48	85.8																					48
50	88.2																					50
55	93.4			89.3						72.2												55
60	97.2			90.1			81.7			71.8												60
65	97.5			88.6			80.9			70.7			62			53.6						65
70	93.3	92.8		84.5			79.8			69.6			61.2			52.9			46.7			70
75		88.5		80.4	77.6		77.6			68			60.3			52.1			46.2			75
80		83			74.9								59.4			51.3			45.3			80
85		77.9			70.1			64.6					58.5			50.5			44.3			85
90		73.4	64.8		66.3			60.9			58.9											90
95			61.9					57.5			56.7			53.2								95
100			58.7								54.5			52			41.1					100
105																	40.6					105
110																	39.5					110
115								37											34.7			115
120								35.3				40.7							33.6			120
125																						125
130															32.5							130
135																	18.1					135
140																				17.8		140

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

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*** Hookblock with deadweight of 3200 lb necessary - Moufle à crochet de poids minimal de 3200 lb nécessaire



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 59 ft***																					
46	83.5																					46
48	85.8																					48
50	88.2																					50
55	93.4			89.3						72.2												55
60	97.2			90.1			81.7			71.8												60
65	97.5			88.6			80.9			70.7			62			53.6						65
70	93.3	84.8		84.5			79.8			69.6			61.2			52.9			46.7			70
75		80.4		80.4	73.9		77.6			68			60.3			52.1			46.2			75
80		75.2			71								59.4			51.3			45.3			80
85		70.5			66.6			62.8					58.5			50.5			44.3			85
90		66.4	57.7		62.8			59.6			55.6											90
95			54.9					56.4			52.7			46								95
100			51.8								50			44.5			41.1					100
105																	40.6					105
110																	39					110
115								37											34.7			115
120								35.3				32.3							33.6			120
125												31.4										125
130															24.1							130
135																	18.1					135
140																				17.3		140

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

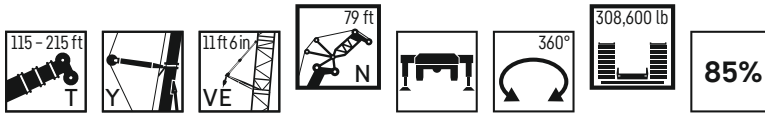
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*** Hookblock with deadweight of 3200 lb necessary - Moufle à crochet de poids minimal de 3200 lb nécessaire

Lifting capacities

Forces de levage

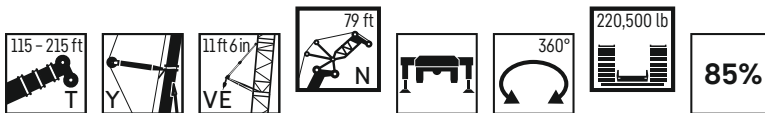
TYVEN 79 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
55	70.3																					55
60	74			71.4																		60
65	78.2			74.6						61												65
70	80			74.4			67.5			60.3			52.5			46.1						70
75	79.8	78.9		73			67.2			59.5			52.1			45.6			40.2			75
80	77.8	77.6		70.7			66.4			58.7			51.4			45			39.9			80
85	74.4	74.7		67.6	66.2		65.5			57.8			50.7			44.3			39.3			85
90	71.2	71.9		64.7	63.9		64.2			56.8			49.9			43.6			38.7			90
95		69.2		61.9	61.5		62.1	61		55	52.4		49.2			43			37.9			95
100		66.6	58.4		59.3			58.8			51.1		48.5	46.4		42.3			36.9			100
105		63.9	57		57.1			56.7			49.3			46.3								105
110		60.9	54.3		55	48.9		54.2			47.5			44.8		38.5						110
115			51.7			46.8		51.8			45.9			43.4		37.8			30.5			115
120			49.4			44.3			38.2		44.2			42		36.8			29.9			120
125						42.1			36.5							35.6			28.9			125
130						40.1			34.6			36.5				34.4			28			130
135									32.9			35			31.9				27			135
140												33.5			30.9							140
145															29.7			15.8				145
150															28.5			15.9				150
155																		15.9				155
160																				15.8		160

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64301_00_000



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
55	70.3																					55
60	74			71.4																		60
65	78.2			74.6						61												65
70	80			74.4			67.5			60.3			52.5			46.1						70
75	79.8	77.8		73			67.2			59.5			52.1			45.6			40.2			75
80	77.8	74.7		70.7			66.4			58.7			51.4			45			39.9			80
85	74.4	70.1		67.6	66		65.5			57.8			50.7			44.3			39.3			85
90	71.2	66.1		64.7	62.4		64.2			56.8			49.9			43.6			38.7			90
95		62.4		61.9	58.9		62.1	54.5		55	49.4		49.2			43			37.9			95
100		59.1	49.7		55.7			51.7			47.8		48.5	42.3		42.3			36.9			100
105		56	48.3		52.6			49.2			45.4			41.2								105
110		53.1	45.8		49.9	41		46.9			43.3			39.3		36.7						110
115			43.5			39.3		44.7			41.4			37.6		35.3			30.5			115
120			41.3			37.3			33.7		39.6			36		33.8			29.9			120
125						35.5			32.2							32.3			28.9			125
130						33.8			30.9			26.8				31			27.8			130
135									29.6			25.7			21.8				26.7			135
140												24.7			21.2							140
145															20.3			15.8				145
150															19.5			15.9				150
155																		15.9			13.6	155
160																				13		160

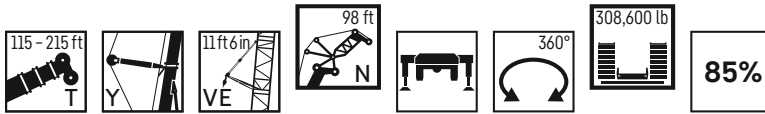
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64305_00_000

Lifting capacities

Forces de levage

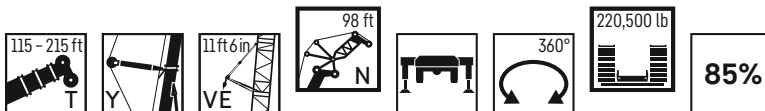
TYVEN 98 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
60	58.9																					60
65	61.1																					65
70	63.7			61.8						51.2												70
75	65.7			62.2			56.3			51.2			44.7			39.3						75
80	66.9			61.9			56.1			50.6			44.5			39.1						80
85	66.6			61.2			55.6			50			44			38.6			34			85
90	65.6	65		60			54.9			49.4			43.4			38			33.6			90
95	63.5	63.6		58	57.2		54.2			48.7			42.9			37.5			33			95
100	60.9	61.4		55.5	54.9		53.4	52.5		48.1			42.3			36.9			32.5			100
105	58.3	59.1		53.3	52.8		52.5	51.8		47.4			41.7			36.4			31.9			105
110	55.8	56.9		51	50.8		50.5	49.9		46.7	45.7		41.1			35.8			31.4			110
115		54.8	50.9	48.8	48.9		48.6	48.1		45.5	44.5		40.5	39.2		35.2	33.8		30.8			115
120		52.8	48.5		47.1	44.7		46.4			42.9		39.9	38.6		34.7	33.6		30.2	28.1		120
125		50.8	46.3		45.4	42.6		44.8			41.4			38			33.1			28		125
130		48.8	44.4		43.7	40.8		43.3	38.7		40			37.2			32.3			26.9		130
135			42.5			39.1		41.8	37.3		38.7			36.1			31.4			26		135
140			40.8			37.4			35.7		37.4	32.5		34.9			30.5			25		140
145						35.9			34.2			31.1					29.4			24.1		145
150						34.6						29.9			27.1		28.3			23.3		150
155												28.7			26.1			14.2		22.5		155
160												27.6			25.1			14.2				160
165															24.1			14.1			10.6	165
170															23.2			13.8			10.8	170
175																		13.4			10.9	175
180																					10.8	180

* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

t_180_64401_00_000



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
60	58.9																					60
65	61.1																					65
70	63.7			61.8						51.2												70
75	65.7			62.2			56.3			51.2			44.7			39.3						75
80	66.9			61.9			56.1			50.6			44.5			39.1						80
85	66.6			61.2			55.6			50			44			38.6			34			85
90	65.6	64.3		60			54.9			49.4			43.4			38			33.6			90
95	63.5	61.8		58	57		54.2			48.7			42.9			37.5			33			95
100	60.9	58.4		55.5	54.4		53.4	51		48.1			42.3			36.9			32.5			100
105	58.3	55.4		53.3	51.7		52.5	48.4		47.4			41.7			36.4			31.9			105
110	55.8	52.5		51	49.2		50.5	46.2		46.7	41.2		41.1			35.8			31.4			110
115		49.9	42.7	48.8	46.7		48.6	44.1		45.5	39.4		40.5	35.7		35.2	32.9		30.8			115
120		47.4	40.5		44.4	36		42.1			37.6		39.9	34.1		34.7	31.9		30.2	28.1		120
125		45.1	38.6		42.3	34.4		40.3			36			32.6			30.5			27.8		125
130		43	36.8		40.3	33		38.7	29.8		34.5			31.2			29.2			26.6		130
135			35.1			31.5		37	28.8		33.1			30			28			25.5		135
140			33.5			30			27.6		31.8	23.1		28.8			26.9			24.5		140
145						28.7			26.5			22.1					25.8			23.5		145
150						27.4			25.4			21.2			17.8		24.8			22.6		150
155									24.5			20.4			17.1			14.2		21.7		155
160												19.6			16.4			14.1				160
165															15.8			14			10.6	165
170															15.1			13.4			10.8	170
175																		12.8			10.5	175
180																					10	180

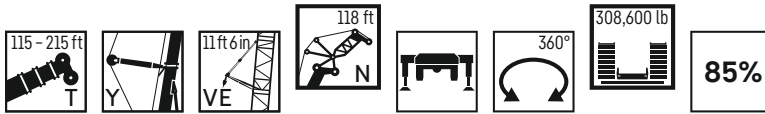
* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

t_180_64405_00_000

Lifting capacities

Forces de levage

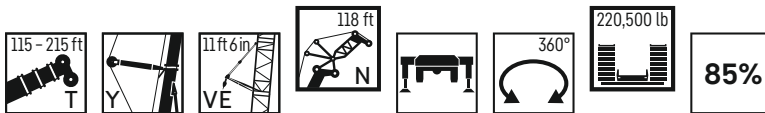
TYVEN 118 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
70	50.2																					70
75	51.8			50.1			40															75
80	53.4			50.8			43.5			41.2												80
85	54.5			51.1			46.1			42.2						32.5						85
90	54.2			50.9			46.5			42.2			37.1			32.4			28.3			90
95	53.6	52.2		50.5			46.3			41.8			36.8			32.1			28.1			95
100	52.6	52.1		50	48.6		45.8			41.4			36.4			31.7			27.8			100
105	51.1	52.1		49.2	47.8		45.4			40.9			36			31.3			27.5			105
110	49.4	51		47.3	46.1		44.8	43.9		40.4			35.5			30.8			27			110
115	47.8	49.5		45.6	44.5		44.3	43.6		39.9	38.6		35.1			30.4			26.6			115
120	46.1	47.9	45.8	43.9	42.9		43.8	43.2		39.4	38.4		34.6	33.1		29.9	28.4		26.2			120
125	44.6	46.2	45.1	42.2	41.5		43.3	42.6		38.9	38.1		34.2	33		29.5	28.4		25.7			125
130	43.1	44.7	43.8	40.6	40.1	38	42	41.2		38.4	37.6		33.7	32.7		29	28.1		25.3			130
135		43.3	42.2		38.7	37.1	40.6	39.8		37.7	36.6		33.3	32.4		28.6	27.8		24.9	23.6		135
140		41.8	40.5		37.4	36.1		38.6	34.7		35.5		32.9	31.9		28.2	27.4		24.5	22.9		140
145		40.4	38.8		36.2	35		37.4	33.3		34.3			31.4			27.1		22.1			145
150		38.9	37.3		35	34		36.2	32		33.3	28.7		30.8			26.5		21.4			150
155			35.9			32.9		35.1	30.7		32.3	27.6		29.9			25.4		20.7			155
160						31.7			29.6		31.3	26.5		29	24		24.1		20.1			160
165						30.5			28.4			25.5			23.1		22.6	8.2	19.4			165
170						29.3			27.4			24.5			22.2		21	8.4	18.8			170
175									26.4			23.6			21.3			8.5	18.2			175
180												22.8			20.5			8.5		9.4		180
185															19.8			8.4		9.4		185
190															19.1			8.2		9.3		190
195																		7.8		9.1		195
200																				8.9		200

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64501_00_000



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
70	50.2																					70
75	51.8			50.1			40															75
80	53.4			50.8			43.5			41.2												80
85	54.5			51.1			46.1			42.2						32.5						85
90	54.2			50.9			46.5			42.2			37.1			32.4			28.3			90
95	53.6	52.2		50.5			46.3			41.8			36.8			32.1			28.1			95
100	52.6	52.1		50	48.6		45.8			41.4			36.4			31.7			27.8			100
105	51.1	52.1		49.2	47.8		45.4			40.9			36			31.3			27.5			105
110	49.4	51		47.3	46.1		44.8	43.8		40.4			35.5			30.8			27			110
115	47.8	49.3		45.6	44.5		44.3	42.3		39.9	37.1		35.1			30.4			26.6			115
120	46.1	47.2	39.3	43.9	42.9		43.8	40.4		39.4	36		34.6	31.7		29.9	28.4		26.2			120
125	44.6	45	38.2	42.2	41.5		43.3	38.7		38.9	34.4		34.2	31		29.5	28.4		25.7			125
130	43.1	42.9	36.5	40.6	40.1	31.9	42	37.1		38.4	32.9		33.7	29.7		29	28		25.3			130
135		41	34.8		38.4	30.8	40.6	35.6		37.7	31.6		33.3	28.4		28.6	27.1		24.9	23.6		135
140		39.2	33.2		36.7	29.5		34.2	26.1		30.3		32.9	27.3		28.2	26		24.5	22.9		140
145		37.5	31.8		35.1	28.3		32.9	25		29.1			26.2			24.9		22.1			145
150		35.9	30.4		33.6	27.2		31.6	24		28	19.7		25.2			23.9		21.4			150
155			29.2			26		30.4	23.1		27	18.9		24.2			23		20.7			155
160						24.9			22.2		26	18.2		23.3	15		22.2		20.1			160
165						23.9			21.4			17.4			14.4		21.3	8.2	19.4			165
170						22.9			20.6			16.8			13.8			8.4	18.7			170
175									19.8			16.1			13.2			8.5	18	9.2		175
180												15.5			12.7			8.5		9.2		180
185															12.2			8.4		8.8		185
190															11.7			8.2		8.4		190
195																		7.8		8		195
200																				7.7		200

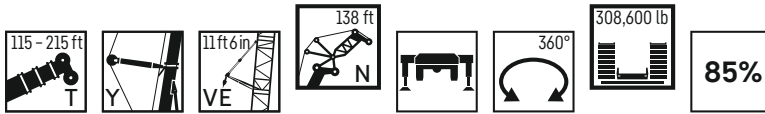
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64505_00_000

Lifting capacities

Forces de levage

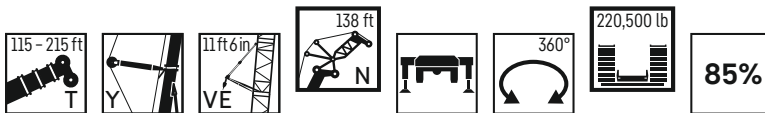
TYVEN 138 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
75	44.5			40.2																		75
80	45			41			36															80
85	45.3			41.5			37.4															85
90	44.9			41.8			37.9			33.3												90
95	44.2			41.8			38.2			34.4			26.9			26.5			23.5			95
100	43.3	42.5		41.7			38.2			34.7			30			26.5			23.4			100
105	42.2	42.4		41.3			38.1			34.7			30.5			26.4			23.3			105
110	41.1	42.4		40.7	40.5		37.8			34.4			30.3			26.2			23.1			110
115	39.7	41.5		40	40		37.4	36.5		34			30			25.9			22.9			115
120	38.2	40.2		38.9	39.1		37.1	36.4		33.6	32.2		29.7			25.6			22.6			120
125	36.8	38.8		37.5	37.7		36.7	36.1		33.2	32.2		29.3			25.3			22.3			125
130	35.5	37.5		36.2	36.5		36.2	35.8		32.8	32		29			24.9			21.9			130
135	34.2	36.3	34.7	34.9	35.2		35.3	35.5		32.5	31.7		28.6	27.5		24.6	23.5		21.6			135
140	33	35	33.7	33.7	34	31.6	34.2	34.8		32.1	31.4		28.3	27.2		24.2	23.3		21.2	19.9		140
145	31.9	33.9	32.7	32.5	32.9	30.8	33.1	33.8		31.7	31.2		27.9	27		23.9	23		20.9	19.8		145
150	30.9	32.8	31.8	31.5	31.8	30	32	32.7	30.7	31.4	30.8		27.6	26.8		23.6	22.7		20.5	19.6		150
155		31.6	30.8		30.8	29.1	31	31.7	29.9	31.1	30		27.3	26.5		23.3	22.5		20.2	19.1		155
160		30.5	29.9		29.8	28.2		30.7	29.1		29.1	25.9		26.2		23	22.2		19.8	18.6		160
165		29.4	29		28.7	27.4		29.8	28.1		28.2	24.8		25.8			22			18		165
170		28	28.2		27.7	26.6		28.9	27		27.4	23.9		25.5			21.7			17.5		170
175			27.3			25.8		28.1			26.6	23		24.9			21.2			16.9		175
180			26.4			25.1					25.8	22.2		24.3			20.4	19.6		16.4		180
185						24.3			24.2			21.3					18.9			15.9		185
190						23.5			23.4			20.6					18.1			15.4		190
195									22.5			19.8					17.5			14.9	7.8	195
200												19.1					16.8			7.8		200
205																				7.7		205
210																				7.6		210
215																				7.5		215
220																				7.2		220

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64601_00_000



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
75	44.5			40.2																		75
80	45			41			36															80
85	45.3			41.5			37.4															85
90	44.9			41.8			37.9			33.3												90
95	44.2			41.8			38.2			34.4			26.9			26.5			23.5			95
100	43.3	42.5		41.7			38.2			34.7			30			26.5			23.4			100
105	42.2	42.4		41.3			38.1			34.7			30.5			26.4			23.3			105
110	41.1	42.4		40.7	40.5		37.8			34.4			30.3			26.2			23.1			110
115	39.7	41.5		40	40		37.4	36.5		34			30			25.9			22.9			115
120	38.2	40.2		38.9	39.1		37.1	36.4		33.6	32.2		29.7			25.6			22.6			120
125	36.8	38.8		37.5	37.7		36.7	36.1		33.2	32.2		29.3			25.3			22.3			125
130	35.5	37.5		36.2	36.5		36.2	35.8		32.8	31.7		29			24.9			21.9			130
135	34.2	36.3	34.3	34.9	35.2		35.3	34.8		32.5	30.6		28.6	26.9		24.6	23.5		21.6			135
140	33	35	32.9	33.7	34	28.4	34.2	33.5		32.1	29.4		28.3	25.9		24.2	23.3		21.2	19.9		140
145	31.9	33.9	31.4	32.5	32.9	27.3	33.1	32.2		31.7	28.2		27.9	24.9		23.9	23		20.9	19.8		145
150	30.9	32.8	30.1	31.5	31.8	26.2	32	31	23.2	31.4	27.1		27.6	23.9		23.6	22.7		20.5	19.6		150
155		31.6	28.9		30.8	25.2	31	29.9	22.3	31.1	26.1		27.3	22.9		23.3	22.2		20.2	19.1		155
160		30.5	27.7		29.8	24.2		28.8	21.5		25.1	17.2		22.1		23	21.5		19.8	18.6		160
165		29.4	26.5		28.7	23.3		27.8	20.6		24.2	16.5		21.2			20.7			18		165
170		28	25.4		27.7	22.4		26.8	19.9		23.3	15.8		20.5			19.9			17.4		170
175			24.4			21.5		25.7	19.1		22.5	15.2		19.7	12		19.2			16.8		175
180			23.4			20.6			18.5		21.8	14.6			11.5		18.5	7.3		16.2		180
185						19.8			17.8			14			11		17.9	7.3		15.6		185
190						19			17.2			13.5			10.5		17.2	7.3		15	7.2	190
195									16.6			13			10.1			7.3		14.5	6.9	195
200												12.5			9.6			7.2		6.5		200
205																		7		6.2		205
210																		6.8		5.9		210
215																		6.4		5.6		215
220																				5.3		220

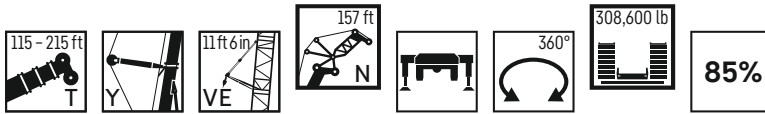
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64605_00_000

Lifting capacities

Forces de levage

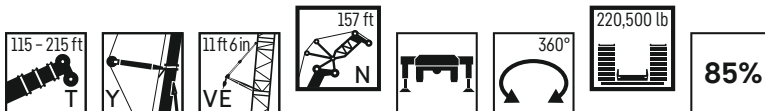
TYVEN 157 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
80	35.7			31.7																		80
85	36.3			32.7																		85
90	36.6			33.4			30.8															90
95	36.6			33.9			31.3			27.3			24.3									95
100	36.4			34.3			31.5			28.2			24.7			22.1						100
105	36.1			34.5			31.6			28.6			25.1			22.2			19.6			105
110	35.8	34.5		34.5			31.6			28.8			25.1			22.2			19.6			110
115	35.5	34.4		34.4	33.2		31.5			28.8			25.1			22.1			19.5			115
120	35.2	34.3		34.3	33.1		31.3	30.7		28.7			25			22.1			19.4			120
125	34.9	34.2		34.2	33		31.2	30.6		28.4			24.8			21.9			19.3			125
130	34.7	34.1		34	33		31	30.4		28.2	27.1		24.6			21.7			19.1			130
135	34.5	34		33.8	32.9		30.8	30.2		27.9	27		24.3	23.2		21.5			18.8			135
140	34	33.4	31	33.4	32.3		30.5	30		27.6	26.8		24.1	23.1		21.2	19.9		18.6			140
145	33.1	32.3	30.5	32.9	31.3		30.2	29.8		27.3	26.6		23.8	22.9		20.9	19.8		18.3			145
150	31.9	31.3	29.7	31.8	30.3		29.9	29.6		27	26.4		23.5	22.7		20.6	19.6		18	16.7		150
155	30.8	30.3	28.9	30.6	29.3	27	29.7	29		26.7	26.2		23.2	22.5		20.4	19.4		17.7	16.6		155
160	29.7	29.3	28.1	29.6	28.4	26.3	29.3	28.2	25.9	26			23	22.3		20.1	19.2		17.4	16.4		160
165	28.5	28.4	27.3	28.5	27.5	25.6	28.6	27.3	25.2	26.2	25.7		22.7	22.1		19.8	19.1		17.1	16.2		165
170	27.2	27.5	26.5	27.4	26.6	24.8	27.6	26.4	24.5	26	25.4	23.1	22.5	21.9		19.5	18.9		16.9	16		170
175		26.6	25.8		25.8	24.2	26.6	25.6	23.8	25.8	24.7	22.3	22.3	21.7		19.3	18.6		16.6	15.5		175
180		25.7	25		24.9	23.5		24.8	23.1		24	21.5		21.5	19.6	19.1	18.4		16.3	15.1		180
185		24.7	24.3		24.1	22.8		24.1	22.5		23.3	20.7		21.2	19.2		18.2			14.6		185
190		23.4	23.6		23.3	22.2		23.3	21.8		22.7	19.9		20.9	18.6		18			14.2		190
195			22.9		21.6			22.5	21.2		22	19.2		20.3	17.9		17.6	6		13.8		195
200			22.2		20.9				20.6		21.4	18.5		19.8	17.3		16.9	6		13.3	6.3	200
205					20.3				20.1			17.9			16.6		15.9	6		12.9	6.4	205
210									19.5			17.2			16.1			6		12.5	6.4	210
215									18.9			16.6			15.5			5.9		12.2	6.4	215
220												16.1			14.9			5.8			6.3	220
225															14.4			5.6			6.2	225
230																		5.2			6.1	230
235																		4.9			5.7	235
240																					5.7	240

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64701_00_000



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
80	35.7			31.7																		80
85	36.3			32.7																		85
90	36.6			33.4			30.8															90
95	36.6			33.9			31.3			27.3			24.3									95
100	36.4			34.3			31.5			28.2			24.7			22.1						100
105	36.1			34.5			31.6			28.6			25.1			22.2			19.6			105
110	35.8	34.5		34.5			31.6			28.8			25.1			22.2			19.6			110
115	35.5	34.4		34.4	33.2		31.5			28.8			25.1			22.1			19.5			115
120	35.2	34.3		34.3	33.1		31.3	30.7		28.7			25			22.1			19.4			120
125	34.9	34.2		34.2	33		31.2	30.6		28.4			24.8			21.9			19.3			125
130	34.7	34.1		34	33		31	30.4		28.2	27.1		24.6			21.7			19.1			130
135	34.5	34		33.8	32.9		30.8	30.2		27.9	27		24.3	23.2		21.5			18.8			135
140	34	33.4	31	33.4	32.3		30.5	30		27.6	26.8		24.1	23.1		21.2	19.9		18.6			140
145	33.1	32.3	30.5	32.9	31.3		30.2	29.8		27.3	26.5		23.8	22.9		20.9	19.8		18.3			145
150	31.9	31.3	29.3	31.8	30.3		29.9	29.6		27	26		23.5	22.7		20.6	19.6		18	16.7		150
155	30.8	30.3	28	30.6	29.3	23.8	29.7	28.8		26.7	25.1		23.2	22.5		20.4	19.4		17.7	16.6		155
160	29.7	29.3	26.9	29.6	28.4	22.9	29.3	27.8	20.5	26.5	24.2		23	22.2		20.1	19.2		17.4	16.4		160
165	28.5	28.4	25.7	28.5	27.5	22	28.6	26.8	19.7	26.2	23.3		22.7	21.7		19.8	19		17.1	16.2		165
170	27.2	27.5	24.7	27.4	26.6	21.2	27.6	25.8	18.9	26	22.4	14.8	22.5	20.9		19.5	18.7		16.9	16		170
175		26.6	23.7		25.8	20.4	26.6	25	18.2	25.8	21.6	14.2	22.3	20.2		19.3	18		16.6	15.5		175
180		25.7	22.8		24.9	19.7		24.1	17.5		20.9	13.7		19.4	11.7	19.1	17.3		15			180
185		24.7	21.9		24.1	19		23.3	16.8		20.2	13.1		18.8	11.2		16.7		14.4			185
190		23.4	21		23.3	18.3		22.5	16.2		19.5	12.6		18.1	10.8		16.1		13.9			190
195			20.2			17.6		21.6	15.7		18.8	12.1		17.5	10.3		15.5	6		13.4	5.6	195
200			19.5			16.9			15.1		18.2	11.6		16.9	9.9		15	6		12.9	5.3	200
205						16.2			14.6			11.2			9.5		14.5	6		12.4	5	205
210												10.7			9.1			6		11.9	4.7	210
215												10.3			8.7			5.9		11.5	4.4	215
220												9.9						5.8			4.1	220
225															8.3			5.6			3.9	225
230																		5.2			3.6	230
235																		4.9			3.4	235
240																					3.1	240

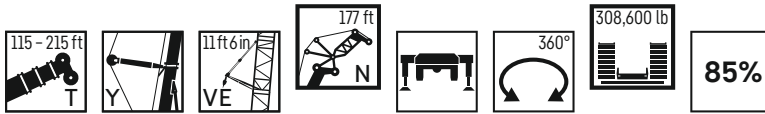
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64705_00_000

Lifting capacities

Forces de levage

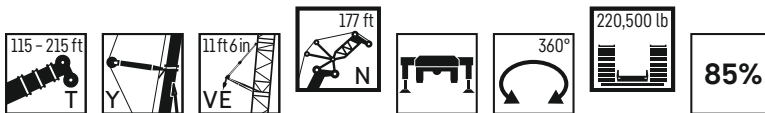
TYVEN 177 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
90	28.5			27.2			23.9			22.2			16.5			17						90
95	28.9			27.5			24.6			22.7			19			17.3						95
100	29.3			27.7			25			22.9			19.4			17.6						100
105	29.5			27.8			25.3			23.1			19.8			17.7						105
110	29.4			27.8			25.5			23.1			20			17.7			15.4			110
115	29.3	27.9		27.8			25.5			23.1			20.1			17.7			15.5			115
120	29.1	27.9		27.7			25.4			23.1			20.1			17.7			15.5			120
125	28.8	27.8		27.7	27		25.4			23.1			20.1			17.7			15.5			125
130	28.6	27.7		27.6	26.9		25.4	25.1		23			20.1			17.6			15.4			130
135	28.4	27.6		27.5	26.8		25.3	25		22.9	22.2		20.1			17.5			15.3			135
140	28.2	27.6		27.4	26.8		25.2	24.8		22.8	22.1		19.9			17.4			15.2			140
145	28	27.6		27.3	26.7		25.1	24.7		22.7	21.9		19.8			17.3			15.1			145
150	27.9	27.5		27.1	26		24.9	24.5		22.5	21.8		19.7	18.8		17.1	16.1		14.9			150
155	27.7	27.3	25.4	26.7	25.2		24.7	24.3		22.3	21.6		19.5	18.6		17	15.9		14.7			155
160	27.6	27.1	25.4	26.1	24.5	21.7	24.6	24.2		22.1	21.5		19.3	18.5		16.8	15.8		14.5	13.2		160
165	27.4	26.8	25.1	25.2	23.7	21.4	24.4	24		21.9	21.3		19.1	18.3		16.5	15.6		14.2	13.1		165
170	26.6	25.9	24.4	24.3	22.9	20.8	24.2	23.9	22.2	21.7	21.1		18.9	18.2		16.3	15.5		14	13		170
175	25.7	25.1	23.8	23.5	22.2	20.2	24	23.6	21.7	21.4	21		18.7	18		16.1	15.3		13.8	12.8		175
180	24.8	24.4	23.2	22.7	21.5	19.7	23.8	23.1	21.1	21.2	20.8	19.2	18.4	17.8		15.9	15.2		13.5	12.7		180
185	23.9	23.6	22.6	21.9	20.9	19.2	23.6	22.4	20.5	21	20.6	18.7	18.2	17.7		15.7	15		13.3	12.5		185
190	22.9	22.9	21.9	21.1	20.2	18.6	23	21.8	20	20.9	20.5	18.2	18	17.5	16.1	15.4	14.8		13.1	12.3		190
195		22.1	21.3		19.5	18.1	22.2	21.1	19.4	20.8	19.9	17.7	17.9	17.3	15.8	15.3	14.7		12.9	12.1		195
200		21.4	20.7		18.9	17.6		20.5	18.9		19.3	17.2		17.2	15.5		14.5	4		11.8		200
205		20.6	20.1		18.3	17.1		19.9	18.4		18.7	16.8		17	15.3		14.3	4.2		11.5		205
210			19.6			16.5		19.3	17.9		18.1	16.3		16.9	14.9		14.2	4.3		11.2	4.5	210
215			19			16		18.7	17.4		17.6	15.8		16.7	14.4		14	4.4		10.8	4.7	215
220			18.4			15.6			16.9			15.4		16.2	13.9		13.8	4.4		10.5	4.8	220
225						15.1			16.5			14.9			13.4		13.1	4.4		10.2	4.9	225
230									16			14.5			12.9			4.4		9.8	4.9	230
235									15.5			14.1			12.4			4.4		9.5	4.8	235
240												13.6			11.9			4.2			4.8	240
245															11.5			4			4.7	245
250																		3.7			4.6	250
255																		3.4			4.4	255
260																					4.1	260

* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64801_00_000



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*			215 ft + 23 ft*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
90	28.5			27.2			23.9			22.2			16.5			17						90
95	28.9			27.5			24.6			22.7			19			17.3						95
100	29.3			27.7			25			22.9			19.4			17.6						100
105	29.5			27.8			25.3			23.1			19.8			17.7						105
110	29.4			27.8			25.5			23.1			20			17.7			15.4			110
115	29.3	27.9		27.8			25.5			23.1			20.1			17.7			15.5			115
120	29.1	27.9		27.8			25.5			23.1			20			17.7			15.5			120
125	28.8	27.8		27.7	27		25.4			23.1			20.1			17.7			15.5			125
130	28.6	27.7		27.6	26.9		25.4	25.1		23			20.1			17.6			15.4			130
135	28.4	27.6		27.5	26.8		25.3	25		22.9	22.2		20.1			17.5			15.3			135
140	28.2	27.6		27.4	26.8		25.2	24.8		22.8	22.1		19.9			17.4			15.2			140
145	28	27.6		27.3	26.7		25.1	24.7		22.7	21.9		19.8			17.3			15.1			145
150	27.9	27.5		27.1	26		24.9	24.5		22.5	21.8		19.7	18.8		17.1	16.1		14.9			150
155	27.7	27.3	25.4	26.7	25.2		24.7	24.3		22.3	21.6		19.5	18.6		17	15.9		14.7			155
160	27.6	27.1	25.2	26.1	24.5	21.7	24.6	24.2		22.1	21.5		19.3	18.5		16.8	15.8		14.5	13.2		160
165	27.4	26.8	24.7	25.2	23.7	21.3	24.4	24		21.9	21.3		19.1	18.3		16.5	15.6		14.2	13.1		165
170	26.6	25.9	23.7	24.3	22.9	20.5	24.2	23.9	17.9	21.7	21.1		18.9	18.2		16.3	15.5		14	13		170
175	25.7	25.1	22.8	23.5	22.2	19.8	24	23.6	17.3	21.4	20.9		18.7	18		16.1	15.3		13.8	12.8		175
180	24.8	24.4	21.8	22.7	21.5	19	23.8	23.1	16.6	21.2	20.4	13.1	18.4	17.8		15.9	15.2		13.5	12.7		180
185	23.9	23.6	21	21.9	20.9	18.3	23.6	22.4	15.9	21	19.6	12.6	18.2	17.4		15.7	15		13.3	12.5		185
190	22.9	22.9	20.1	21.1	20.2	17.7	23	21.7	15.3	20.9	18.9	12	18	16.8	9.3	15.4	14.7		13.1	12.3		190
195		22.1	19.3		19.5	17	22.2	21	14.8	20.8	18.3	11.5	17.9	16.2	8.9	15.3	14.2		12.9	12		195
200		21.4	18.6		18.9	16.4		20.3	14.2		17.7	11.1		15.6	8.5	15.1	13.7	4		11.5		200
205		20.6	17.9		18.3	15.9		19.6	13.7		17.1	10.6		15.1	8.1		13.2	4.2		11.1	3.4	205
210			17.2			15.3		18.9	13.2		16.5	10.2		14.5	7.7		12.7	4.3		10.6	3.3	210
215			16.5			14.7		18.2	12.7		16	9.8		14	7.4		12.2	4.4		10.2	3	215
220			15.9			14.1			12.3			9.4			13.5		11.8	4.4		9.8	2.7	220
225						13.5			11.8			9					11.4	4.4		9.4		225
230									11.4			8.6						4.4		9		230
235									11			8.3						4.3		8.7		235
240												7.9						4				240
245																		3.8				245
250																		3.5				250
255																		3.3				255

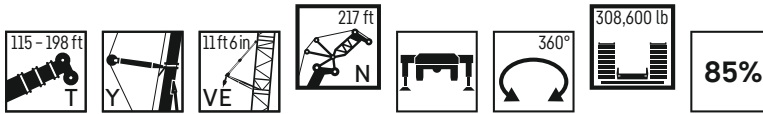
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_64805_00_000

Lifting capacities

Forces de levage

TYVEN 217 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
	N 217 ft																	
95	18.3																	95
100	18.4			16			15											100
105	18.5			16.3			15.3			13								105
110	18.6			16.5			15.4			13.3								110
115	18.7			16.8			15.6			13.6			9.2			7.8		115
120	18.8			16.9			15.7			13.7			10.1			8.8		120
125	18.8			17.1			15.8			13.9			11			9.1		125
130	18.8			17.2			15.8			14			11.2			9.3		130
135	18.8			17.3			15.7			14			11.4			9.5		135
140	18.7	17.7		17.3			15.7			14			11.5			9.7		140
145	18.5	17.8		17.3	17.1		15.7	15.9		13.9			11.6			9.8		145
150	18.4	17.8		17.3	17.2		15.6	15.9		13.9			11.7			9.8		150
155	18.2	17.8		17.3	17.2		15.5	15.9		13.8	13.9		11.7			9.7		155
160	18.1	17.7		17.3	17.2		15.5	15.8		13.8	13.8		11.6	11.6		9.7		160
165	18	17.7		17.3	17.2		15.4	15.7		13.7	13.7		11.6	11.4		9.6		165
170	17.9	17.6		17.2	17.1		15.3	15.6		13.6	13.6		11.5	11.3		9.6		170
175	17.7	17.5		17.2	17.1		15.3	15.4		13.6	13.5		11.5	11.2		9.5	8.3	175
180	17.6	17.4	16.2	17.1	17		15.2	15.3		13.5	13.4		11.4	11.1		9.5	8.4	180
185	17.6	17.3	16.2	17	17	15.3	15.1	15.2		13.4	13.3		11.4	11		9.4	8.4	185
190	17.5	17.1	16.2	16.8	16.9	15.5	14.9	15.1	14.1	13.3	13.2		11.3	10.9		9.3	8.4	190
195	17.4	17.1	15.9	16.7	16.8	15	14.7	15	14.1	13.2	13.1		11.2	10.8		9.2	8.4	195
200	17.3	16.8	15.5	16.5	16.5	14.6	14.5	14.9	13.8	13.1	12.9		11.1	10.7		9.1	8.3	200
205	17.1	16.4	15.1	16.3	16.1	14.2	14.3	14.8	13.4	13	12.8	10.6	11	10.6		9	8.1	205
210	16.6	15.9	14.7	16.1	15.5	13.8	14.1	14.7	13	12.9	12.7	10.7	10.9	10.5		8.9	8	210
215	16	15.4	14.2	15.9	15.1	13.4	13.8	14.4	12.6	12.7	12.6	10.8	10.8	10.4		8.8	7.9	215
220	15.4	14.9	13.8	15.6	14.6	13	13.5	13.9	12.2	12.4	12.5	10.8	10.7	10.3		8.7	7.7	220
225	14.8	14.4	13.5	15.2	14.1	12.7	13.1	13.5	11.9	12.1	12.5	10.7	10.5	10.2	3.2	8.6	7.4	225
230		13.9	13.1		13.7	12.3	12.8	13	11.5	11.7	12.3	10.5	10.2	10.1	3.3	8.5	7.1	230
235		13.4	12.7		13.2	11.9	12.4	12.6	11.1	11.3	12	10.1	9.8	10	3.4	8.1	6.8	235
240		12.9	12.3		12.7	11.5		12.2	10.7		11.6	9.8		9.9	3.4	7.7	6.3	240
245			11.9		12.3	11.1		11.8	10.4		11.2	9.5		9.8	3.5		5.8	245
250			11.5			10.8		11.4	10.1		10.8	9.1		9.8	3.5		5.3	250
255			11.1			10.4		10.8	9.8		10.5	8.8		9.7	3.4		4.8	255
260			10.7			10.1			9.4		10	8.5		9.2	3.3		4.2	260
265						9.7			9.1			8.2			3.1		3.5	265
270									8.7			7.8						270
275									8.2			7.1						275
280												6.2						280

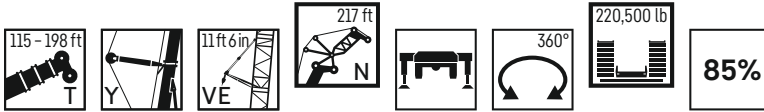
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_65001_00_000

Lifting capacities

Forces de levage

TYVEN 217 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*			198 ft + 23 ft*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
	N 217 ft																	
95	18.3																	95
100	18.4			16			15											100
105	18.5			16.3			15.3			13								105
110	18.6			16.5			15.4			13.3								110
115	18.7			16.8			15.6			13.6			9.2			7.8		115
120	18.8			16.9			15.7			13.7			10.1			8.8		120
125	18.8			17.1			15.8			13.9			11			9.1		125
130	18.8			17.2			15.8			14			11.2			9.3		130
135	18.8			17.3			15.7			14			11.4			9.5		135
140	18.7	17.7		17.3			15.7			14			11.5			9.7		140
145	18.5	17.8		17.3	17.1		15.7	15.9		13.9			11.6			9.8		145
150	18.4	17.8		17.3	17.2		15.6	15.9		13.9			11.7			9.8		150
155	18.2	17.8		17.3	17.2		15.5	15.9		13.8	13.9		11.7			9.7		155
160	18.1	17.7		17.3	17.2		15.5	15.8		13.8	13.8		11.6	11.6		9.7		160
165	18	17.7		17.3	17.2		15.4	15.7		13.7	13.7		11.6	11.4		9.6		165
170	17.9	17.6		17.2	17.1		15.3	15.6		13.6	13.6		11.5	11.3		9.6		170
175	17.7	17.5		17.2	17.1		15.3	15.4		13.6	13.5		11.5	11.2		9.5	8.3	175
180	17.6	17.4	16.2	17.1	17		15.2	15.3		13.5	13.4		11.4	11.1		9.5	8.4	180
185	17.6	17.3	16.2	17	17	15.3	15.1	15.2		13.4	13.3		11.4	11		9.4	8.4	185
190	17.5	17.1	16.2	16.8	16.9	15.2	14.9	15.1	13.5	13.3	13.2		11.3	10.9		9.3	8.4	190
195	17.4	17.1	15.9	16.7	16.8	14.7	14.7	15	12.9	13.2	13.1		11.2	10.8		9.2	8.4	195
200	17.3	16.8	15.5	16.5	16.5	14.1	14.5	14.9	12.4	13.1	12.9	9.3	11.1	10.7		9.1	8.3	200
205	17.1	16.4	15.1	16.3	16.1	13.6	14.3	14.8	11.9	13	12.8	8.9	11	10.6		9	8.1	205
210	16.6	15.9	14.7	16.1	15.5	13	14.1	14.7	11.4	12.9	12.7	8.5	10.9	10.5		8.9	8	210
215	16	15.4	14.2	15.9	15.1	12.5	13.8	14.4	10.9	12.7	12.6	8.1	10.8	10.4		8.8	7.9	215
220	15.4	14.9	13.8	15.6	14.6	12	13.5	13.9	10.5	12.4	12.5	7.7	10.7	10.3		8.7	7.7	220
225	14.8	14.4	13.5	15.2	14.1	11.6	13.1	13.5	10.1	12.1	12.5	7.3	10.5	10.2	3.2	8.6	7.4	225
230		13.9	13.1		13.7	11.2	12.8	13	9.6	11.7	12.3	6.9	10.2	10.1	3.3	8.5	7.1	230
235		13.4	12.7		13.2	10.7	12.4	12.6	9.2	11.3	12	6.6	9.8	10	3.4	8.1	6.8	235
240		12.9	12.3		12.7	10.3		12.2	8.9		11.6	6.3		9.9	3.4	7.7	6.3	240
245			11.9		12.3	9.9		11.8	8.5		11.2	6		9.8	3.5		5.8	245
250			11.5			9.5		11.4	8.2		10.8	5.7		9.5	3.5		5.3	250
255			11.1			9.2		10.8	7.8		10.5	5.4		9.1	3.4		4.8	255
260			10.7			8.8			7.5		10	5.1		8.8	3.2		4.2	260
265						8.5			7.2			4.8			2.9		3.5	265
270									6.9			4.5						270
275									6.6			4.3						275
280												4						280

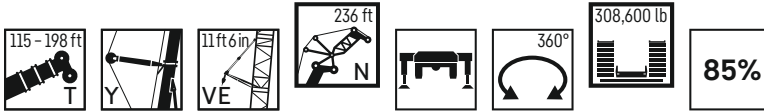
* adapter 11 ft 6 in + telescopic boom extension 11 ft 6 in - pièce d'adaptateur 11 ft 6 in + rallonge de flèche télescopique 11 ft 6 in

t_180_65005_00_000

Lifting capacities

Forces de levage

TYVEN 236 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*		198 ft + 23 ft*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	82°	75°	
	N 236 ft																
100	14.3																100
105	14.3			12.3			11.3										105
110	14.4			12.4			11.6										110
115	14.5			12.6			11.8			9.7			6.7				115
120	14.6			12.8			12			10.1			7.3				120
125	14.6			13			12.1			10.3			7.7		4.9		125
130	14.7			13.1			12.2			10.5			8.2		5.7		130
135	14.6			13.2			12.2			10.7			8.4		6.3		135
140	14.5			13.3			12.3			10.7			8.5		6.7		140
145	14.5	13.2		13.4			12.3			10.8			8.7		6.9		145
150	14.4	13.4		13.4			12.3			10.8			8.7		7		150
155	14.3	13.5		13.4	12.8		12.2			10.8			8.8		7.1		155
160	14.3	13.6		13.4	13		12.2	12.2		10.8			8.8		7.2		160
165	14.2	13.7		13.5	13.1		12.1	12.4		10.7	10.9		8.8		7.2		165
170	14.1	13.8		13.5	13.2		12.1	12.4		10.7	10.8		8.7	8.9	7.2		170
175	14	13.7		13.4	13.3		12	12.3		10.6	10.7		8.7	8.8	7.1		175
180	13.9	13.7		13.4	13.3		11.9	12.3		10.6	10.7		8.7	8.7	7.1	6.2	180
185	13.8	13.6	11.7	13.3	13.3		11.8	12.2		10.5	10.6		8.6	8.6	7.1	6.3	185
190	13.7	13.5	11.9	13.2	13.2		11.7	12.1		10.5	10.5		8.6	8.5	7	6.3	190
195	13.6	13.5	12.1	13	13.2		11.6	12		10.4	10.4		8.5	8.4	7	6.4	195
200	13.5	13.4	12.3	12.9	13.1	11.4	11.5	11.9		10.4	10.3		8.5	8.3	6.9	6.4	200
205	13.4	13.3	12.4	12.8	13	11.6	11.3	11.8	10.6	10.3	10.2		8.4	8.2	6.9	6.4	205
210	13.3	13.3	12.5	12.7	13	11.8	11.2	11.8	10.7	10.1	10.1	7.9	8.4	8.1	6.8	6.4	210
215	13.2	13.2	12.5	12.5	12.9	11.9	11	11.7	10.8	10	10	8	8.3	8.1	6.7	6.3	215
220	13	13.2	12.4	12.4	12.9	11.7	10.8	11.6	10.7	9.8	9.9	8.2	8.2	8	6.6	6.2	220
225	12.9	13.1	12.2	12.2	12.8	11.3	10.6	11.5	10.6	9.7	9.8	8.3	8.1	7.9	6.6	6.1	225
230	12.8	13	11.8	12.1	12.7	11	10.4	11.5	10.2	9.5	9.8	8.4	8.1	7.8	6.5	6	230
235	12.7	12.5	11.4	11.9	12.3	10.7	10.1	11.4	9.9	9.3	9.7	8.4	7.8	7.7	6.4	5.8	235
240	12.5	12.1	11.1	11.8	11.9	10.3	9.9	11.2	9.6	9	9.6	8.3	7.6	7.6	6.2	5.6	240
245	12.1	11.7	10.8	11.6	11.4	10	9.6	10.8	9.3	8.7	9.6	8.1	7.3	7.6	6	5.4	245
250		11.3	10.5		11	9.7	9.4	10.5	9	8.5	9.5	7.9	7	7.5	5.7	5.2	250
255		10.9	10.1		10.6	9.4	9	10.1	8.6	8.2	9.5	7.7	6.7	7.4	5.4	4.8	255
260		10.4	9.8		10.3	9.1		9.7	8.3		9.2	7.5		7.4	5	4.4	260
265			9.4		9.8	8.8		9.4	8.1		8.9	7.2		7		3.9	265
270			9.1			8.5		9	7.8		8.5	7		6.3		3.5	270
275			8.8			8.1		8.5	7.6		8.2	6.8		5.4		3.1	275
280			8.4			7.9			7.3		7.8	6.6		4.5			280
285						7.6			7.1			6.3					285
290									6.8			6					290
295									6.4			5.6					295
300												4.7					300

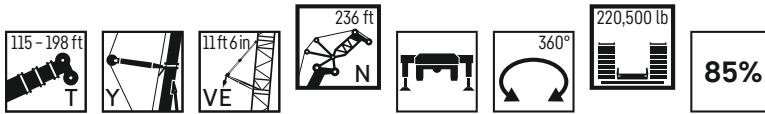
* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

t_180_65101_00_000

Lifting capacities

Forces de levage

TYVEN 236 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*		198 ft + 23 ft*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	82°	75°	
	N 236 ft																
100	14.3																100
105	14.3			12.3			11.3										105
110	14.4			12.4			11.6										110
115	14.5			12.6			11.8			9.7			6.7				115
120	14.6			12.8			12			10.1			7.3				120
125	14.6			13			12.1			10.3			7.7		4.9		125
130	14.7			13.1			12.2			10.5			8.2		5.7		130
135	14.6			13.2			12.2			10.7			8.4		6.3		135
140	14.5			13.3			12.3			10.7			8.5		6.7		140
145	14.5	13.2		13.4			12.3			10.8			8.7		6.9		145
150	14.4	13.4		13.4			12.3			10.8			8.7		7		150
155	14.3	13.5		13.4	12.8		12.2			10.8			8.8		7.1		155
160	14.3	13.6		13.4	13		12.2	12.2		10.8			8.8		7.2		160
165	14.2	13.7		13.5	13.1		12.1	12.4		10.7	10.9		8.8		7.2		165
170	14.1	13.8		13.5	13.2		12.1	12.4		10.7	10.8		8.7	8.9	7.2		170
175	14	13.7		13.4	13.3		12	12.3		10.6	10.7		8.7	8.8	7.1		175
180	13.9	13.7		13.4	13.3		11.9	12.3		10.6	10.7		8.7	8.7	7.1	6.2	180
185	13.8	13.6	11.7	13.3	13.3		11.8	12.2		10.5	10.6		8.6	8.6	7.1	6.3	185
190	13.7	13.5	11.9	13.2	13.2		11.7	12.1		10.5	10.5		8.6	8.5	7	6.3	190
195	13.6	13.5	12.1	13	13.2		11.6	12		10.4	10.4		8.5	8.4	7	6.4	195
200	13.5	13.4	12.3	12.9	13.1	11.4	11.5	11.9		10.4	10.3		8.5	8.3	6.9	6.4	200
205	13.4	13.3	12.4	12.8	13	11.6	11.3	11.8	10.6	10.3	10.2	7.5	8.4	8.2	6.9	6.4	205
210	13.3	13.3	12.5	12.7	13	11.8	11.2	11.8	10.4	10.1	10.1	7.4	8.4	8.1	6.8	6.4	210
215	13.2	13.2	12.5	12.5	12.9	11.5	11	11.7	9.9	10	10	7	8.3	8.1	6.7	6.3	215
220	13	13.2	12.4	12.4	12.9	11	10.8	11.6	9.5	9.8	9.9	6.6	8.2	8	6.6	6.2	220
225	12.9	13.1	12.2	12.2	12.8	10.6	10.6	11.5	9	9.7	9.8	6.3	8.1	7.9	6.6	6.1	225
230	12.8	13	11.8	12.1	12.7	10.2	10.4	11.5	8.6	9.5	9.8	5.9	8.1	7.8	6.5	6	230
235	12.7	12.5	11.4	11.9	12.3	9.7	10.1	11.4	8.3	9.3	9.7	5.6	7.8	7.7	6.4	5.8	235
240	12.5	12.1	11.1	11.8	11.9	9.3	9.9	11.2	7.9	9	9.6	5.3	7.6	7.6	6.2	5.6	240
245	12.1	11.7	10.8	11.6	11.4	9	9.6	10.8	7.5	8.7	9.6	5	7.3	7.6	6	5.4	245
250		11.3	10.5		11	8.6	9.4	10.5	7.2	8.5	9.5	4.7	7	7.5	5.7	5.2	250
255		10.9	10.1		10.6	8.2	9	10.1	6.9	8.2	9.5	4.4	6.7	7.4	5.4	4.8	255
260		10.4	9.8		10.3	7.9		9.7	6.5		9.2	4.1		7.4	5	4.4	260
265			9.4		9.8	7.6		9.4	6.2		8.9	3.8		7		3.9	265
270			9.1			7.3		9	5.9		8.5	3.6		6.3		3.5	270
275			8.8			7		8.5	5.7		8.2	3.3		5.4		3.1	275
280			8.4			6.7			5.4		7.8	3.1		4.5			280
285						6.4			5.1			2.9					285
290									4.9								290
295									4.6								295

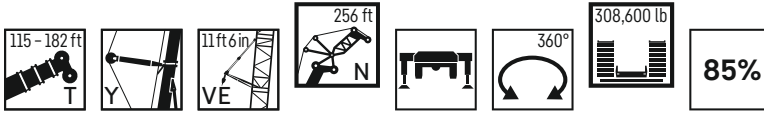
* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

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Lifting capacities

Forces de levage

TYVEN 256 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
	N 256 ft														
105	10.7														105
110	10.7														110
115	10.8			10			8.1								115
120	10.9			10.1			8.4			6.4					120
125	10.9			10.1			8.5			6.7			3		125
130	10.9			10.2			8.7			6.9			3.4		130
135	10.8			10.2			8.8			7.2			3.8		135
140	10.7			10.2			8.9			7.4			4.3		140
145	10.7			10.2			8.9			7.5			4.7		145
150	10.6			10.2			9			7.6			5.2		150
155	10.6	10		10.1			9			7.6			5.5		155
160	10.5	10.1		10.1	9.5		9			7.7			5.7		160
165	10.4	10.3		10	9.7		9	8.9		7.7			5.8		165
170	10.4	10.3		9.9	9.8		8.9	9.1		7.7			5.9		170
175	10.3	10.4		9.8	10		8.8	9.2		7.7	8		5.9	6.3	175
180	10.3	10.5		9.8	10.1		8.7	9.2		7.7	7.9		5.9	6.3	180
185	10.2	10.5		9.7	10.1		8.6	9.2		7.6	7.9		5.9	6.2	185
190	10.1	10.5		9.6	10.2		8.6	9.2		7.6	7.8		5.9	6.1	190
195	10	10.5		9.5	10.2		8.4	9.1		7.6	7.7		5.9	6.1	195
200	9.9	10.4	8.7	9.4	10.2		8.3	9.1		7.5	7.6		5.9	6	200
205	9.9	10.4	8.9	9.3	10.1		8.2	9		7.4	7.6		5.9	5.9	205
210	9.8	10.3	9	9.2	10.1		8.1	8.9	7.6	7.3	7.5		5.9	5.8	210
215	9.7	10.2	9.2	9.1	10		7.9	8.8	7.7	7.2	7.4		5.9	5.8	215
220	9.6	10.2	9.2	9	9.9		7.8	8.8	7.9	7	7.3		5.8	5.7	220
225	9.5	10.1	9.3	8.9	9.9		7.6	8.7	8	6.9	7.3	5.6	5.7	5.6	225
230	9.4	10	9.4	8.7	9.8		7.5	8.6	8	6.7	7.2	5.8	5.5	5.6	230
235	9.3	9.8	9.4	8.6	9.6		7.3	8.6	8	6.5	7.1	5.9	5.4	5.5	235
240	9.2	9.8	9.4	8.5	9.3		7.1	8.5	8	6.4	7	6	5.2	5.4	240
245	9.1	9.8	9.4	8.4	8.9	7.4	6.9	8.5	7.9	6.2	7	6.1	5	5.4	245
250	9	9.8	9.1	8.3	8.6	7.2	6.7	8.4	7.7	6	6.9	6.1	4.8	5.3	250
255	8.9	9.8	8.8	8.1	8.3	7	6.5	8.4	7.4	5.8	6.9	6.1	4.6	5.2	255
260	8.8	9.5	8.5	8	7.9	6.7	6.3	8.4	7.2	5.6	6.8	6	4.4	5.2	260
265	8.7	9.1	8.3	7.9	7.6	6.5	6.1	8.2	6.9	5.4	6.8	6	4.2	5.1	265
270		8.8	8		7.3	6.1		8	6.7	5.1	6.7	5.9	3.9	5.1	270
275		8.4	7.7		7	4.8		7.7	6.5	4.8	6.7	5.7	3.7	5	275
280		8	7.5		6.5	3.6		7.4	6.3		6.7	5.5		5	280
285			7.2		6.2			7.2	6.1		6.6	5.3		5	285
290			7					6.9	5.8		6.4	5.1		4.9	290
295			6.7					6.5	5.6		6.2	4.9		4.9	295
300			6.4						5.4		5.9	4.7		4.9	300
305									5.2			4.5			305
310									5						310

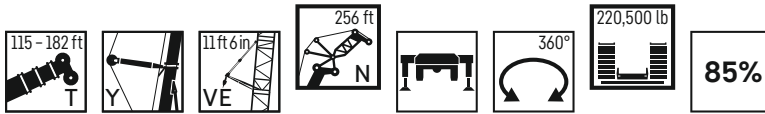
* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

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Lifting capacities

Forces de levage

TYVEN 256 ft



	115 ft + 23 ft*			132 ft + 23 ft*			149 ft + 23 ft*			165 ft + 23 ft*			182 ft + 23 ft*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
	N 256 ft														
105	10.7														105
110	10.7														110
115	10.8			10			8.1								115
120	10.9			10.1			8.4			6.4					120
125	10.9			10.1			8.5			6.7			3		125
130	10.9			10.2			8.7			6.9			3.4		130
135	10.8			10.2			8.8			7.2			3.8		135
140	10.7			10.2			8.9			7.4			4.3		140
145	10.7			10.2			8.9			7.5			4.7		145
150	10.6			10.2			9			7.6			5.2		150
155	10.6	10		10.1			9			7.6			5.5		155
160	10.5	10.1		10.1	9.5		9			7.7			5.7		160
165	10.4	10.3		10	9.7		9	8.9		7.7			5.8		165
170	10.4	10.3		9.9	9.8		8.9	9.1		7.7			5.9		170
175	10.3	10.4		9.8	10		8.8	9.2		7.7	8		5.9	6.3	175
180	10.3	10.5		9.8	10.1		8.7	9.2		7.7	7.9		5.9	6.3	180
185	10.2	10.5		9.7	10.1		8.6	9.2		7.6	7.9		5.9	6.2	185
190	10.1	10.5		9.6	10.2		8.6	9.2		7.6	7.8		5.9	6.1	190
195	10	10.5		9.5	10.2		8.4	9.1		7.6	7.7		5.9	6.1	195
200	9.9	10.4	8.7	9.4	10.2		8.3	9.1		7.5	7.6		5.9	6	200
205	9.9	10.4	8.9	9.3	10.1		8.2	9		7.4	7.6		5.9	5.9	205
210	9.8	10.3	9	9.2	10.1		8.1	8.9	7.6	7.3	7.5		5.9	5.8	210
215	9.7	10.2	9.2	9.1	10		7.9	8.8	7.7	7.2	7.4		5.9	5.8	215
220	9.6	10.2	9.2	9	9.9		7.8	8.8	7.9	7	7.3	5.2	5.8	5.7	220
225	9.5	10.1	9.3	8.9	9.9		7.6	8.7	7.8	6.9	7.3	5	5.7	5.6	225
230	9.4	10	9.4	8.7	9.8		7.5	8.6	7.4	6.7	7.2	4.7	5.5	5.6	230
235	9.3	9.8	9.4	8.6	9.6		7.3	8.6	7	6.5	7.1	4.4	5.4	5.5	235
240	9.2	9.8	9.4	8.5	9.3		7.1	8.5	6.7	6.4	7	4	5.2	5.4	240
245	9.1	9.8	9.4	8.4	8.9	7.4	6.9	8.5	6.3	6.2	7	3.7	5	5.4	245
250	9	9.8	9.1	8.3	8.6	7.2	6.7	8.4	6	6	6.9	3.5	4.8	5.3	250
255	8.9	9.8	8.8	8.1	8.3	7	6.5	8.4	5.7	5.8	6.9	3.2	4.6	5.2	255
260	8.8	9.5	8.5	8	7.9	6.7	6.3	8.4	5.4	5.6	6.8	2.9	4.4	5.2	260
265	8.7	9.1	8.3	7.9	7.6	6.5	6.1	8.2	5.1	5.4	6.8		4.2	5.1	265
270		8.8	8		7.3	6.1		8	4.8	5.1	6.7		3.9	5.1	270
275		8.4	7.7		7	4.8		7.7	4.5	4.8	6.7		3.7	5	275
280		8	7.5		6.5	3.6		7.4	4.2		6.7			5	280
285			7.2		6.2			7.2	4		6.6			5	285
290			7					6.9	3.7		6.4			4.9	290
295			6.7					6.5	3.5		6.1			4.7	295
300			6.4						3.2		5.8			4.4	300
305									3						305
310									2.8						310

* adapter 11 ft 6 in • telescopic boom extension 11 ft 6 in • pièce d'adaptateur 11 ft 6 in • rallonge de flèche télescopique 11 ft 6 in

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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 455 kW (619 h.p.), max. torque 2263 lb-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R96. Fuel reservoir: 145 gallons.
Transmission	Automatic transmission system with torque converter and intarder, make ZF, 12 forward speeds and 2 reverse speeds, transfer case with transfer differential.
Axles	Low maintenance carrier axles, all 6 axles steered. Axle 1, 3 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 3 with longitudinal differential lock.
Cardan shaft	All cardan shafts with 70° diagonal toothing and maintenance free.
Suspension	All axles are hydro-pneumatically suspended with automatic leveling. Suspension hydraulically lockable.
Tyres	12 tyres, all axles equipped with single tyres. Size of tyres: 445/95 R 25 (16.00 R 25).
Steering	2-circuit system with hydraulic servo steering. Active speed depending rear axle steering, special steering programs for various driving situations.
Brakes	Service brake: all-wheel servo-air brake, all axles are equipped with disc brakes, dual circuit. Additional brakes: exhaust flap brake, Telma Eddy current brake (optional), intarder in gearbox. Hand brake: Spring-loaded, acting on all wheels of axles 2 to 6.
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.



Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane engine	4-cylinder Diesel, make Liebherr, watercooled, output 180 kW (245 h.p.), max. torque 1055 lb-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R96. Fuel reservoir: 95 gallons.
Crane drive	Diesel-hydraulic, with 5 axial piston variable displacement pumps, with servo-control and capacity control.
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.
Luffing gear	1 differential hydraulic ram with nonreturn 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 tiltable 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses.
Telescopic boom	1 base section and 5 sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 49 ft – 230 ft.
Counterweight	220,500 lb
Electrical system	Modern data bus technique, 24 Volt DC.

Additional equipment

Y	Guying system for telescopic boom consisting of guying frames with stay ropes, tiltable hydraulically into transport position Self assembly.
VE	Eccentric incl. 11 ft 6 in telescopic boom extension.
F	Fixed lattice jib 20 ft – 138 ft Adjustment 0°; 20°; 40°; 60°
N	Luffing fly jib 39 ft – 256 ft
H	Auxiliary jib 4 ft 3 in
Additional counterweight	4 additional counterweight slabs of 22,050 lb each for a total counterweight of 308,600 lb.
2nd hoist gear	For 2-hook operation or for operating the luffing lattice jib.
Tyre equipment	12 tyres, size 525/80 R 25 (20.5 R 25).
Drive 12 x 8	The 4th axle is driven additionally.
Other items of equipment available on request.	

Equipment



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 455 kW (619 ch), couple max. 2263 lb-ft. Emissions des gaz d'échappement conformes au directive (EU) 2016/1628, EPA/CARB ou ECE-R.96. Capacité du réservoir à carburant: 145 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	Essieux nécessitant peu d'entretien, les 6 essieux sont directeurs. Les essieux 1, 3 et 5 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal et l'essieu 3 avec différentiel longitudinal.
Arbres articulés	Tous les flasques de croisillons avec denture en croix 70° et sans entretien.
Suspension	Tous les essieux sont à suspension hydropneumatique avec mise à niveau automatique. Suspension blocable hydrauliquement.
Pneumatiques	12 roues à monte simple. 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 (option), ralentisseur monté sur boîte de vitesse. Frein de secours et frein à main: par cylindres à ressorts sur les essieux 2 à 6.
Cabine	Spacieuse cabine, traitement anticorrosion, équipement «grand confort», suspension par silentblochs, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts.



Partie tournante

Cadre	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
Moteur	Moteur diesel Liebherr, 4 cylindres, à refroidissement par eau, de 180 kW (245 ch), couple max. 1055 lb-ft. Emissions des gaz d'échappement conformes au directive (EU) 2016/1628, EPA/CARB ou ECE-R.96. Capacité du réservoir à carburant: 95 gallons.
Entraînement	Diesel hydraulique à 5 pompes à débit variable servo commandées à régulation 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.
Mécanisme de relevage	1 vérin hydraulique différentiel avec clapet anti-retour de sécurité.
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 20° vers l'arrière.
Dispositif de sécurité	Contrôleur de charge LICCON2, système test, fin de course crochet haut, clapets de sécurité en cas de ruptures de flexibles.
Flèche télescopique	Un élément de base et de 5 télescopes. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMATIK. Longueur de flèche: 49 ft - 230 ft.
Contrepoids	220,500 lb
Installation électrique	Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts.

Equipment supplémentaire

Y	Haubanage de flèche composé du chevalet d'haubanage avec haubanage du câble, rabattable hydrauliquement en position de transport. Montage autonome.
VE	Axe excentrique avec extension de flèche de 11 ft 6 in.
F	Flechette treillis fixe 20 ft - 138 ft, Positionnement 0°; 20°; 40°; 60°
N	Fléchette treillis à volée variable 39 ft - 256 ft
H	Fléchette auxiliaire 4 ft 3 in
Contrepoids complémentaire	4 blocs latéraux de suspension de 22,050 lb pour un contrepoids total de 308,600 lb.
Deuxième treuil	Pour le travail avec 2 crochets ou le relevage de la fléchette à volée variable.
Pneumatiques	12 pneus. Taille 525/80 R 25 (20.5 R 25).
Entraînement 12 x 8	Le 4ème essieu est également entraîné.
Autres équipements supplémentaires sur demande.	

Description of symbols

Explication des symboles



Max. capacity
Capacité max.



Max. hoist height
Hauteur de levage max.



Max. radius
Portée max.



Tyres
Pneumatiques



Hookblock/Capacity
Moufle à crochet/Capacité de charge



No. of sheaves
Poulies



No. of lines
Brins



Weight
Poids



Crane carrier
Châssis porteur



Driving speed
Vitesse de translation



Gradability
Aptitude à gravir les pentes



Transmission
Boîte de vitesse



Gear
Vitesse



Onroad gear
Vitesse de route



Crawl speed
Marche lente



Max. supporting forces
Forces d'appui max.



Outriggers front
Calage avant



Outriggers rear
Calage arrière



Crane superstructure
Partie tournante de la grue



infinitely variable
en continu



Rope diameter
Diamètre



Rope length
Longueur du câble



Max. single line pull
Effort au brin maxi.



Hoist gear
Treuil de levage



Slewing speeds
Vitesses d'orientation



Boom length
Longueur de la flèche



Boom position
Position de la flèche



Counterweight
Contrepoids



Outriggers
Calage



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



Standard
Norme



Radius
Portée



Telescopic boom
Flèche télescopique



Guying system for telescopic boom Y
Haubanage de flèche Y



Fixed lattice jib
Fléchette treillis fixe



Eccentric
Axe excentrique



Luffing fly jib
Fléchette treillis à volée variable

Remarks

1.	The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2.	For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3.	The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4.	Lifting capacities are given in kip.
5.	The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6.	The working radii are measured from the slewing centerline.
7.	The stated lengths of the telescopic boom are maximum values and may deviate slightly.
8.	The lifting capacities given for the telescopic boom apply if the folding jib is removed.
9.	Subject to modification of lifting capacities.
10.	Lifting capacities above 298,600 lb / 410,000 lb only with additional pulley block/special equipment.
11.	The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane can be found in the operation manual and the load chart book.
12.	The illustrations in this brochure may feature accessories and special equipment not included in the standard scope of delivery.

Remarques

1.	La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2.	Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3.	Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4.	Les charges sont indiquées en kip.
5.	Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
6.	Les portées sont prises à partir de l'axe de rotation de la partie tournante.
7.	Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.
8.	Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
9.	Charges données sous réserve de modification.
10.	Les charges supérieures à 298,600 lb / 410,000 lb seulement avec moufle additionnel/équipement supplémentaire.
11.	Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.
12.	Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

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