

Strong, long and easy

LTM 1400-6.1

Mobile crane
Grue mobile

LIEBHERR

Mobile and crawler cranes



500 USt



230 ft



318 ft



394 ft

NEW

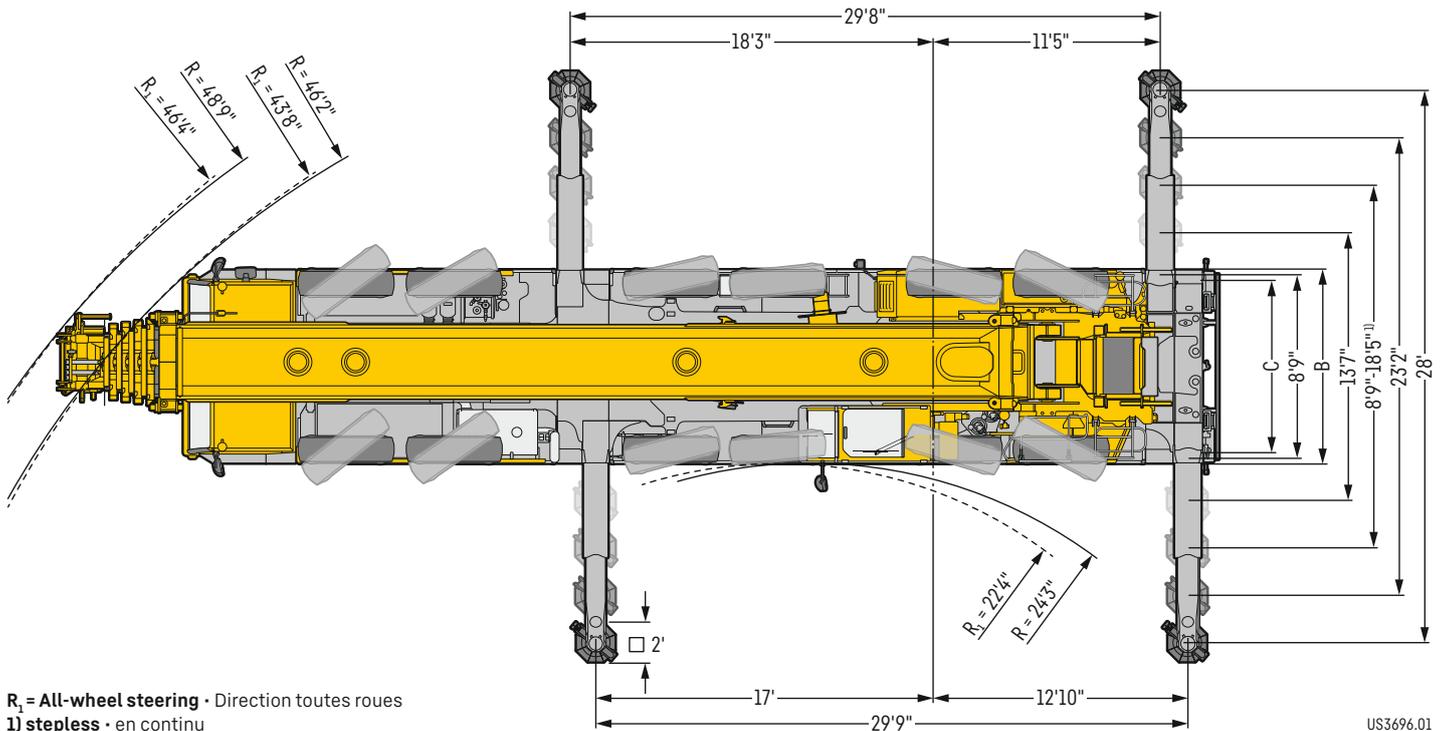
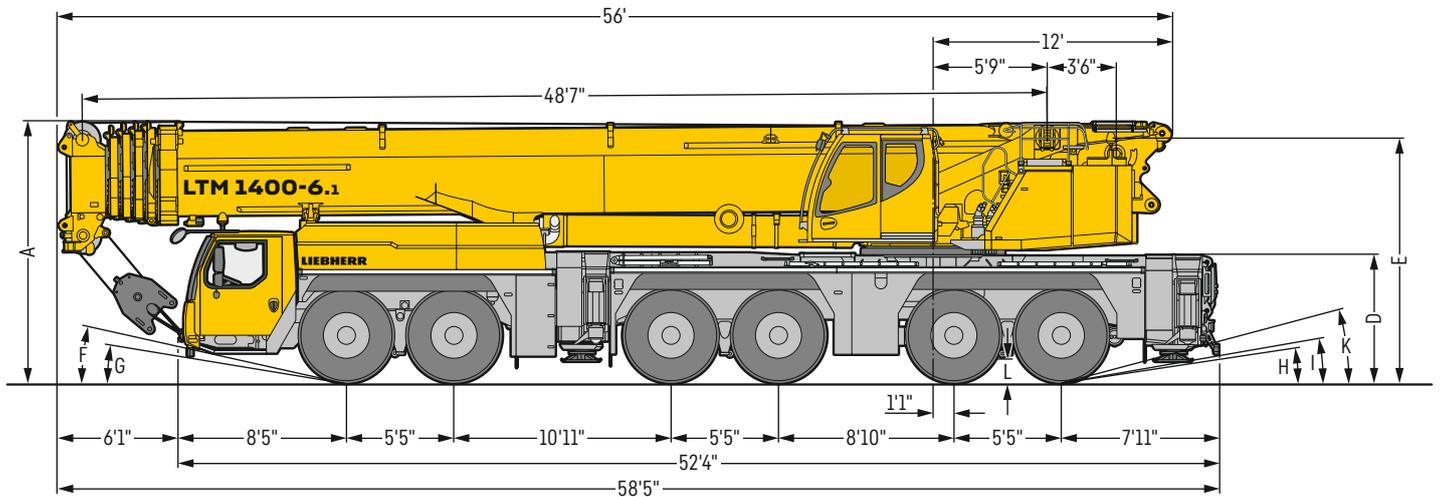


Technical data

Caractéristique technique

Dimensions	
Encombrement	3
LTM 1400-6.1	4-5
New features	
Nouveautés	6-8
Crane data	
Dates de la grue	9
VarioBallast Counterweight radius	
Rayon de contrepoids	10
On-road driving, Jobsite driving	
Déplacement sur route, Déplacement sur chantier	11
Crane equipment improved for transport	
Équipement de grue optimisé pour le transport	12
Counterweight	
Contrepoids	13
Transportation plan	
Plan de transport	14-15
TY self-assembly on the job site · TY montage autonome sur le chantier	16
High luffing jib lifting capacity · Des capacités de charge élevées avec la pointe basculante	17
Boom/jib combinations	
Configurations de flèche	18-21
T	22-23
TY	24-25
TF/TNZF	26-40
TYVEF/TYVENZF	41-50
TN	51-61
TYVEN	62-67
Equipment	
Équipement	68-69
Description of symbols	
Explication des symboles	70

Dimensions Encombrement



R₃ = All-wheel steering · Direction toutes roues
1) steplless · en continu

US3696.01

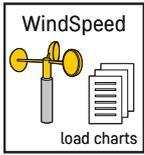
Dimensions · Encombrement

	A	A 5"*	B	C	D	E	F	G	H	I	K	L
445/95 R 25 (16.00 R 25)	13'1"	12'9"	9'10"	8'4"	6'5"	12'4"	12°	9°	9°	10°	15°	1'2"
525/80 R 25 (20.5 R 25)	13'1"	12'9"	10'2"	8'5"	6'5"	12'4"	12°	9°	9°	10°	15°	1'2"

* lowered · abaissé

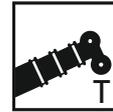
LTM 1400-6.1





Increased flexibility and safety by using lifting capacity tables with different maximum wind speeds.

Une flexibilité et une sécurité accrues grâce aux tableaux de charge avec différentes vitesses de vent autorisées.



230 ft



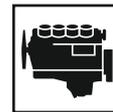
23 ft - 149 ft



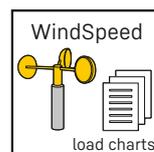
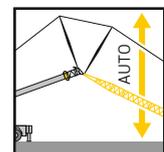
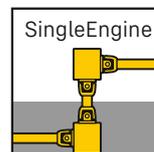
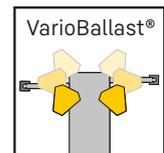
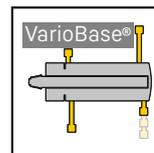
46 ft - 264 ft



VarioBallast®
308,700 lb



455 kW (619 h.p.)



New features

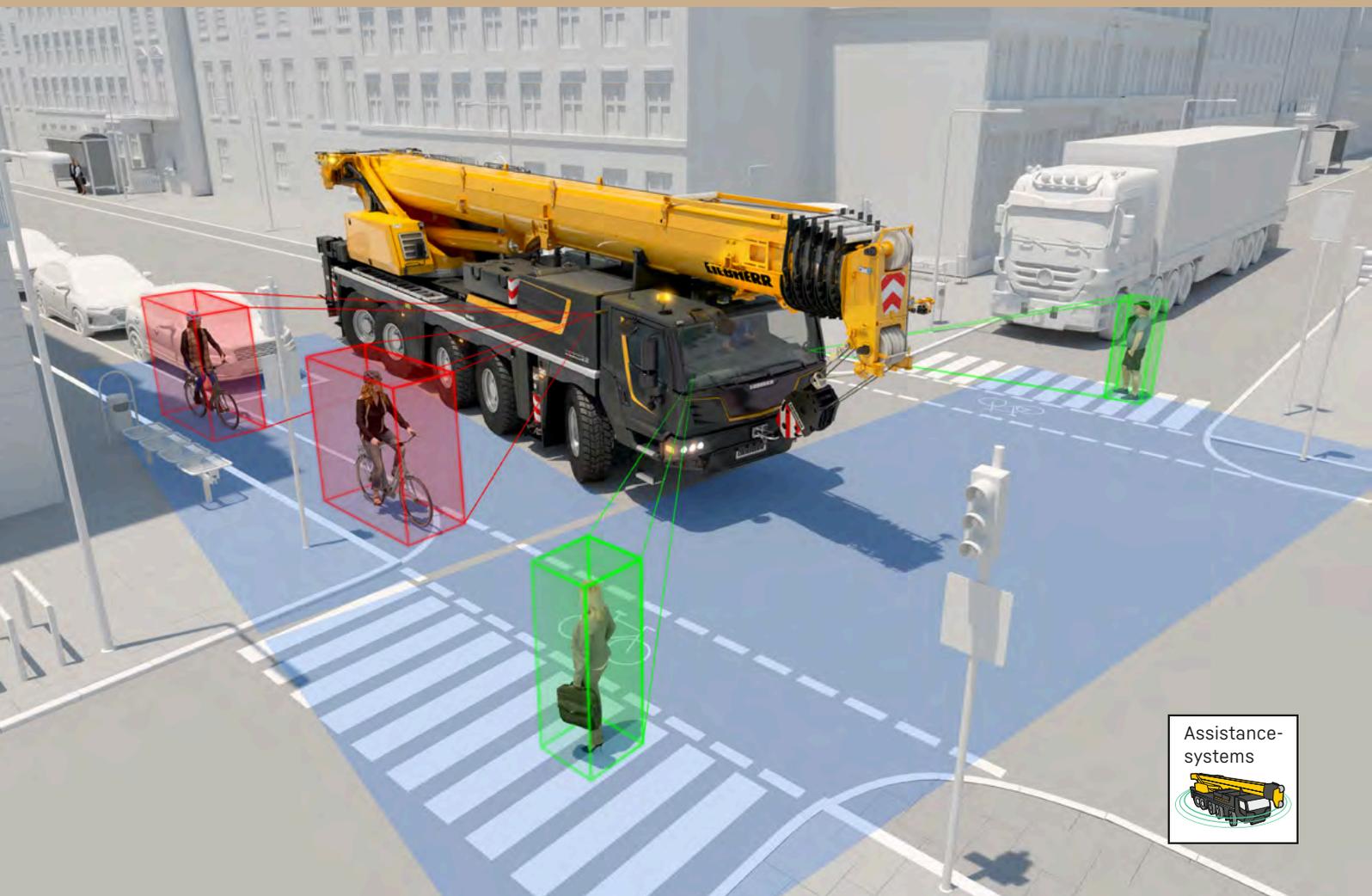
Nouveautés

Driver assistance systems for extra safety on the road

All new mobile crane models are equipped with driver assistance systems that support the crane driver with additional „eyes“. They scan the environment and warn the crane driver to prevent accidents.

Des systèmes d'assistance à la conduite pour une sécurité routière renforcée

Tous les nouveaux types de grues mobiles sont équipés de systèmes d'assistance à la conduite qui aident le grutier avec des « yeux » supplémentaires. Ils balayent l'environnement et avertissent le grutier afin d'éviter les accidents.



Assistance-
systems



Blind Spot Information System

The Blind Spot Information System (BSIS) is also known as Blind Spot Assist or Turn Assist. The camera wing monitors the entire side area of the crane. A traffic light in the driver's cab emits a visual and acoustic warning signal in the event of danger. The crane operator can thus localise the hazardous situation immediately and assess it better. As an option, a monitor provides the driver with a better view and also visually displays the reason for the warning.

Assistant d'angle mort

Le « Blind Spot Information System » (BSIS) est également appelé assistant d'angle mort ou assistant virage. La « caméra-wing » surveille alors toute la zone latérale de la grue. Un feu de signalisation dans la cabine du grutier envoie un signal d'avertissement visuel et sonore en cas de danger. Ainsi, le grutier peut immédiatement localiser la situation dangereuse et mieux l'évaluer. En option, un moniteur offre une meilleure visibilité au conducteur et permet de transmettre visuellement l'origine de l'avertissement.

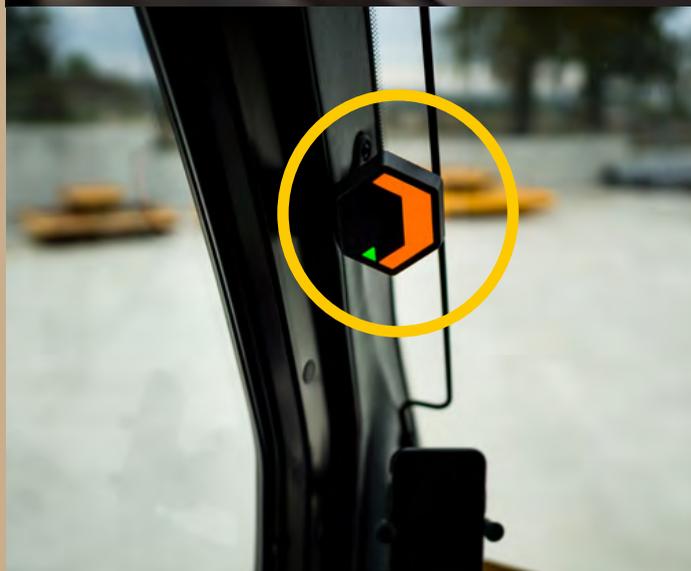


Moving Off Information System

If there is a person in front of the crane, the Moving Off Information System (MOIS) comes into play. Two digital cameras on the left and right of the front windshield scan the area and warn the crane driver both visually and acoustically.

Le système d'information d'approche

Si une personne se trouve devant la grue, le système d'information d'approche « Moving Off Information System » (MOIS) entre en jeu. Deux caméras numériques placées à gauche et à droite du pare-brise balayent la zone et avertissent également le conducteur par des signaux visuels et acoustiques.



Reversing Information System (REIS)

Système d'information sur la marche arrière (REIS)



Crane data

Dates de la grue

Hook block - Moufles à crochet

			
343,300 lb	7	14	4,950 lb / 3,850 lb
275,800 lb	5	11	4,400 lb / 3,300 lb
180,800 lb	3	7	3,850 lb / 3,300 lb / 2,750 lb / 2,200 lb
79,800 lb	1	3	2,750 lb / 2,200 lb / 1,650 lb / 1,100 lb
26,900 lb	-	1	1,100 lb

Crane carrier - Châssis porteur

	 min.	 max.	 %		
445/95 R 25 (16.00 R 25)	1.2	53	50.6 %		12 / R2
525/80 R 25 (20.5 R 25)	1.2	53	50.6 %		

Theoretical gradeability - aptitude théorique en pente

Max. supporting forces - Forces d'appui max.

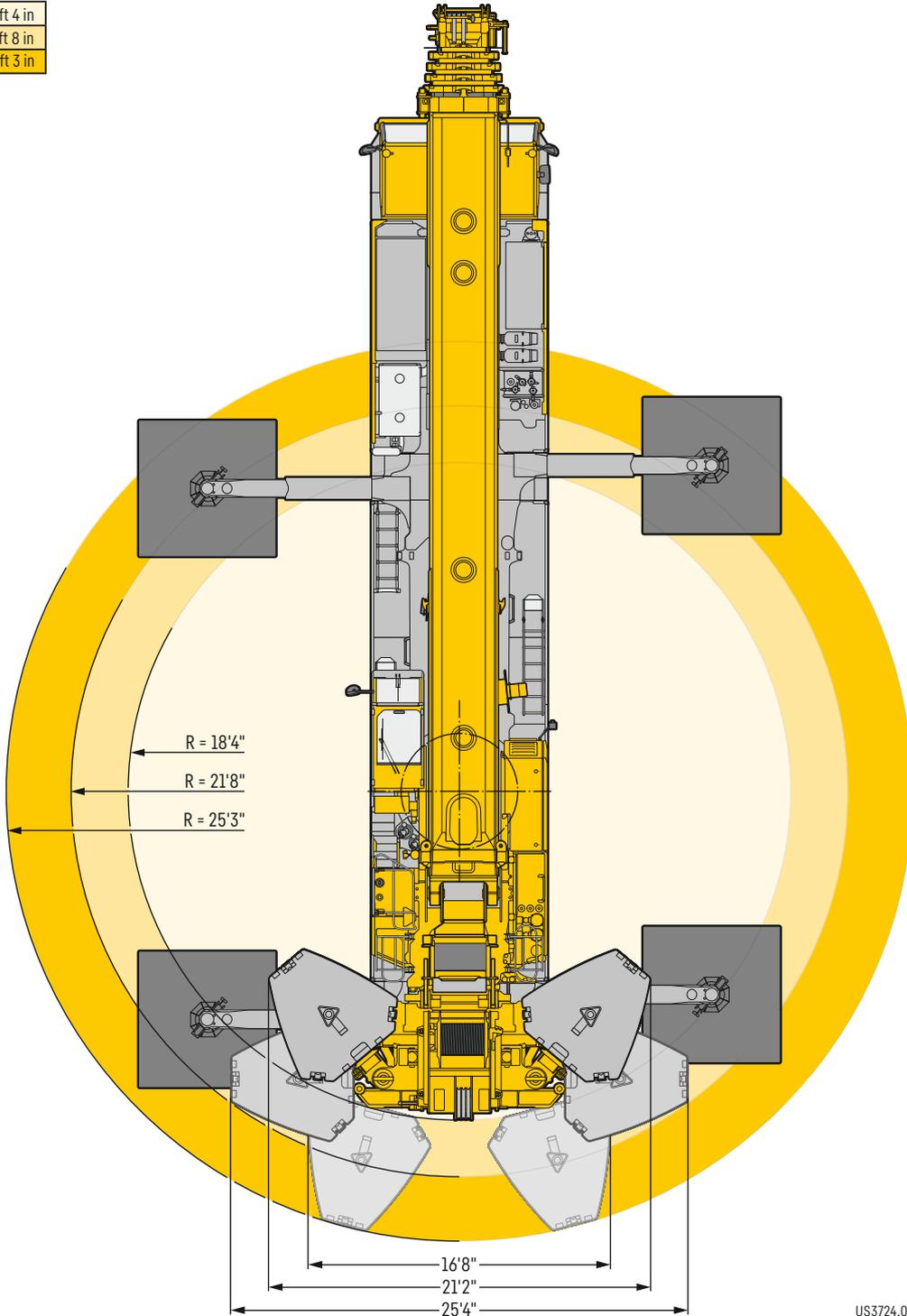
		
Fmax	259,000 lb	320,000 lb

Crane superstructure - Partie tournante

				
1	0 - 384 ft/min single line - au brin simple	23 mm	1197 ft	27,425 lb
2	0 - 469 ft/min single line - au brin simple	23 mm	1673 ft	27,425 lb
	0 - 1.1 rpm			
	approx. 74 seconds to reach 83° boom angle env. 74 s jusqu'à 83°			
	approx. 550 seconds for boom extension from 49 ft - 230 ft env. 550 s pour passer de 49 ft - 230 ft			

VarioBallast® – economical and space-saving économique et peu encombrant

308,700 lb	18 ft 4 in
	21 ft 8 in
	25 ft 3 in

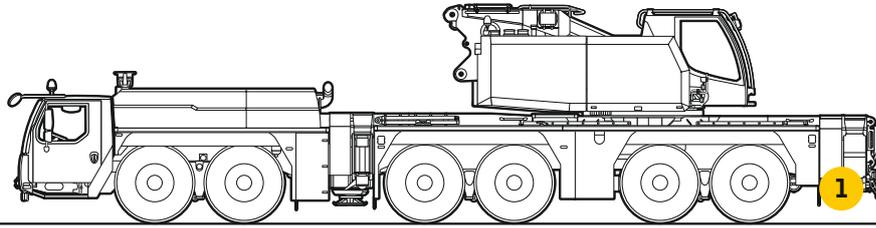


US3724.01

On-road driving

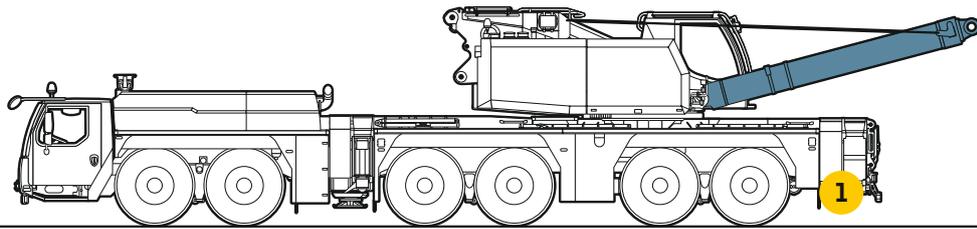
Déplacement sur route

≤ 88,200 lb



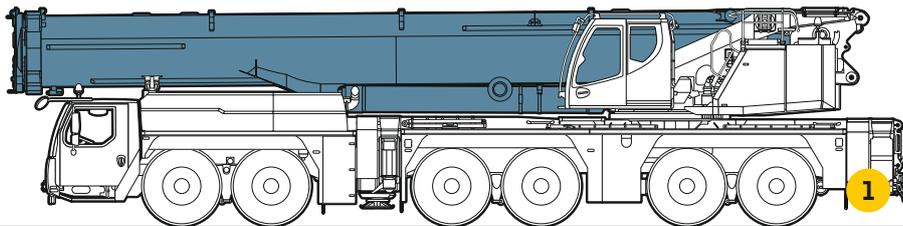
≤ 13,250 lb ≤ 13,250 lb ≤ 15,450 lb ≤ 15,450 lb ≤ 15,450 lb ≤ 15,450 lb

≤ 97,000 lb



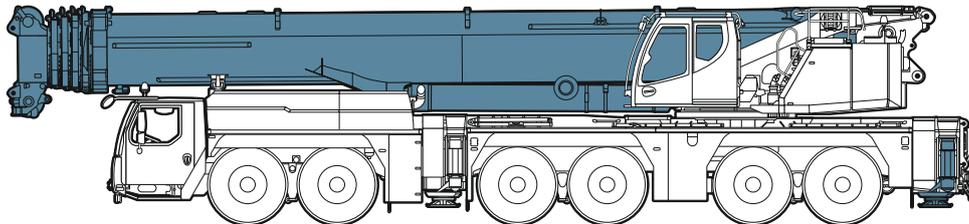
≤ 13,250 lb ≤ 13,250 lb ≤ 17,650 lb ≤ 17,650 lb ≤ 17,650 lb ≤ 17,650 lb

≤ 132,300 lb



≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb ≤ 22,050 lb

≤ 158,750 lb



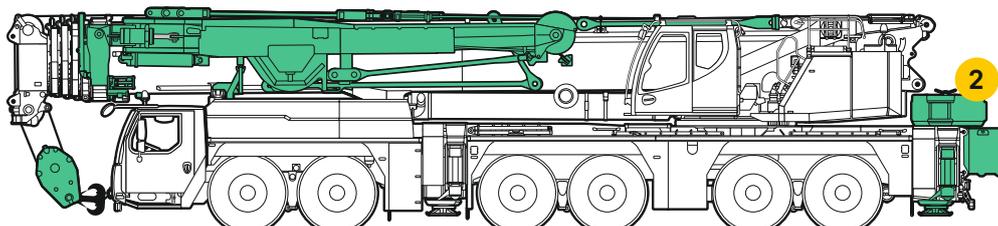
≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb ≤ 26,450 lb

1 Note: without rear outriggers · Note : sans poutres coulissantes arrière

Jobsite driving

Déplacement sur chantier

≤ 218,250 lb



≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb ≤ 36,400 lb

2 only with 2 x 11,025 lb counterweight
seulement avec 2 x 11,025 lb contrepoids

only with
seulement avec



S3722.01

Crane equipment improved for transport

Équipement de grue optimisé pour le transport



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

Counterweight Contrepoids



220,500 lb Basic counterweight
Plaque de base

88,200 lb Additional counterweight
Contrepoids additionnel

308,700 lb Total counterweight
Contrepoids total



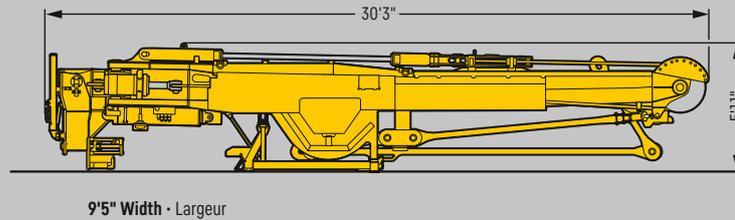
Transportation plan

Plan de transport

Part · Partie

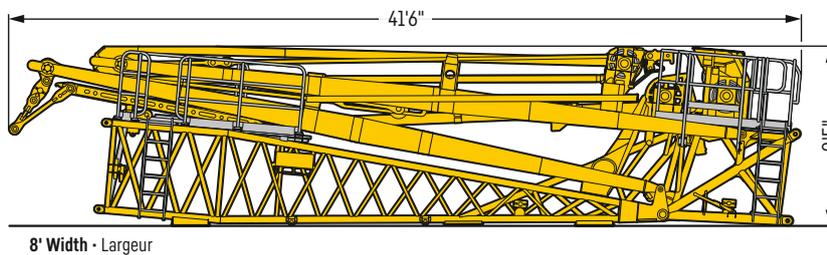


TY guying (including attachments)
Haubanage en TY (avec pièces de montage)



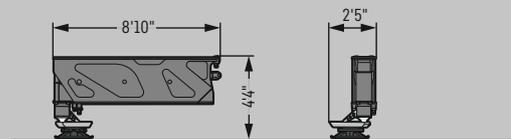
29,300 lb

N assembly unit
Unité de montage N



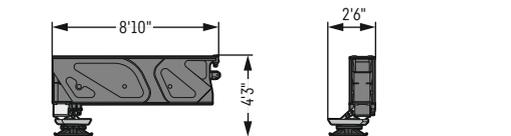
17,400 lb

front outriggers
poutres coulissantes avant



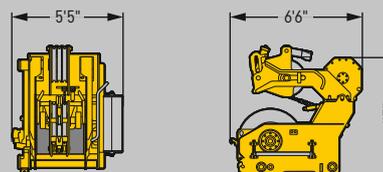
2 x 2,950 lb

rear outriggers
poutres coulissantes arrière



2 x 3,150 lb

Hoist gear 2 (including luffing pulley block)
Mécanisme de levage 2 (avec palonnier de renvoi)



9,050 lb
7,700 lb*

*without luffing pulley block · sans palonnier de renvoi

US3740

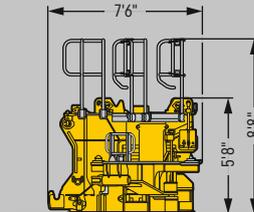
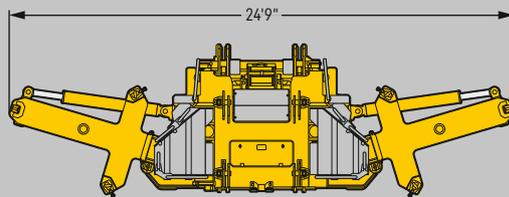
Transportation plan

Plan de transport

Part · Partie

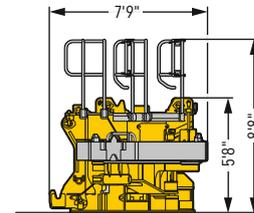
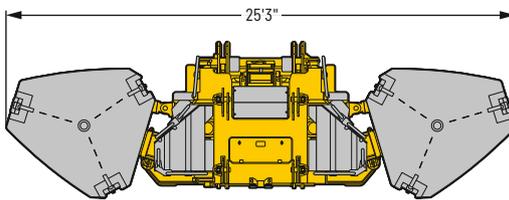


Counterweight frame
Bâti de contrepoids



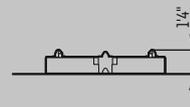
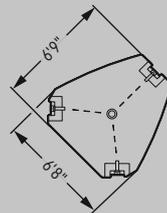
23,800 lb

Counterweight frame with 22,050 lb counterweight
Bâti de contrepoids avec 22,050 lb contrepoids



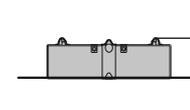
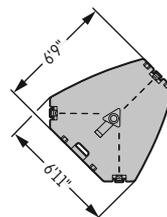
45,860 lb

Counterweight
Contrepoids



2 x 11,025 lb

Counterweight
Contrepoids



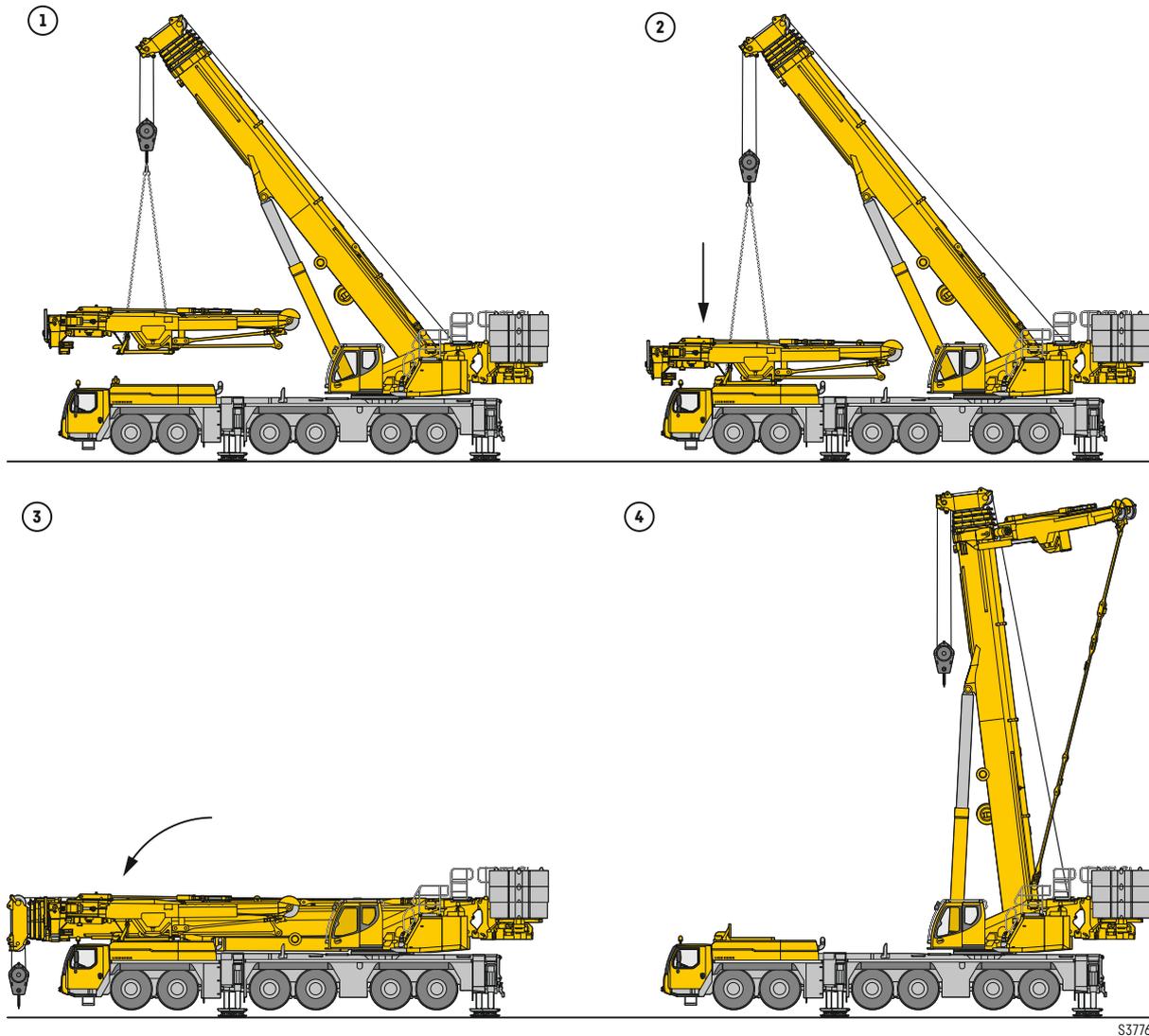
12 x 22,050 lb

US3740

TY self-assembly on the job site

TY montage autonome sur le chantier

Fast set-up without assisting crane
Montage rapide de l'équipement sans grue auxiliaire



LIKUFIX enables the safe, fast hydraulic connection of the Y-shaped guying system.

LIKUFIX permet un raccord hydraulique sûr et rapide du haubanage Y.



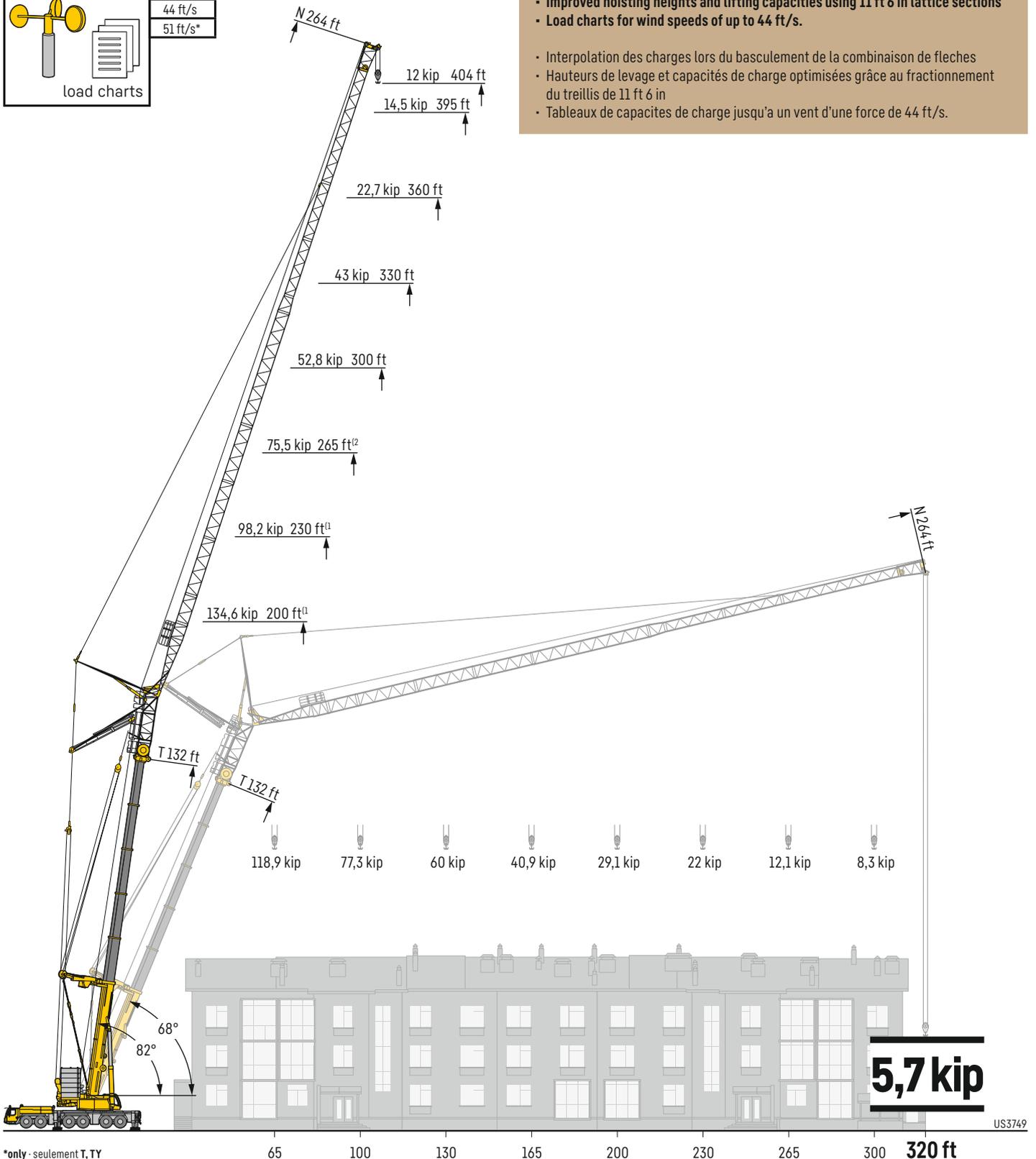
High luffing jib lifting capacity

Des capacités de charge élevées avec la pointe basculante

WindSpeed

29 ft/s
36 ft/s
44 ft/s
51 ft/s*

load charts



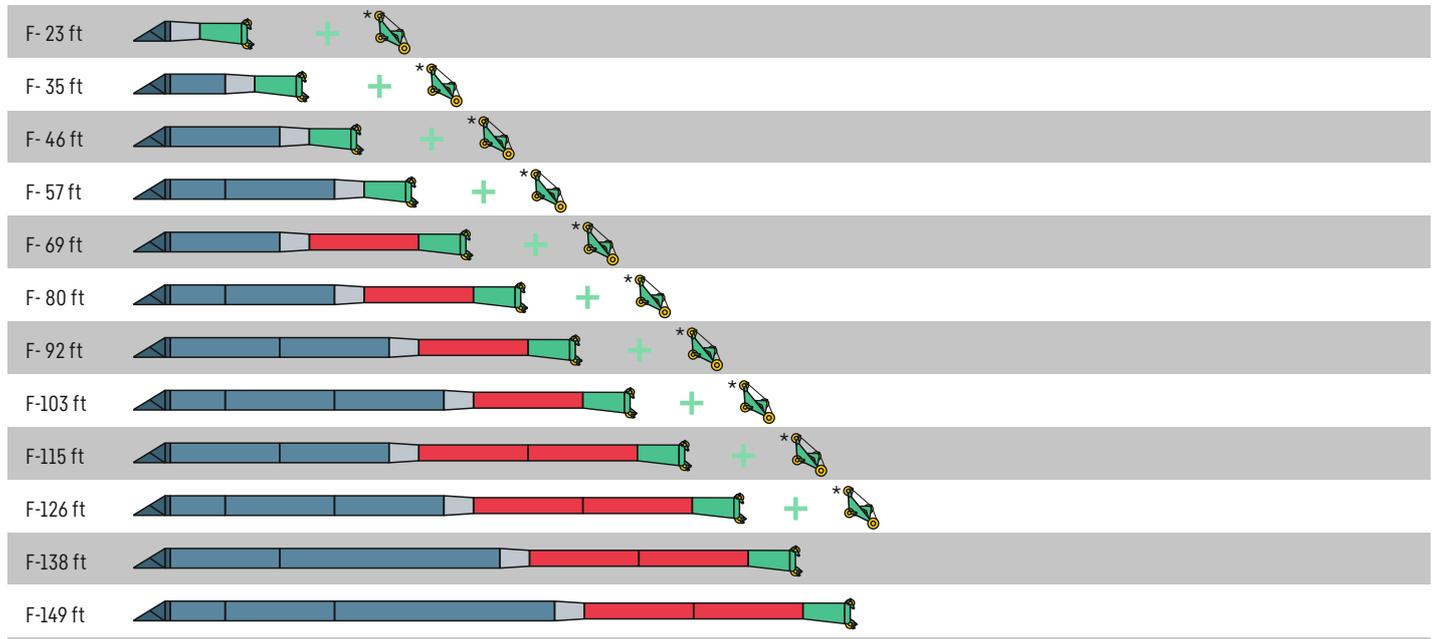
*only - seulement T, TY
¹¹ TY
¹² TYVEF

US3749

Boom/jib combinations – Fixed fly jib

Configurations de flèche – Fléchette fixe

F



6'7" TF-adapter · TF-adaptateur



NA-11'6"



NA-23'



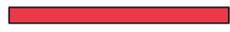
NA-46'



6'7" NI reduction section · Élément réducteur NI



NI-23'



NI-46'

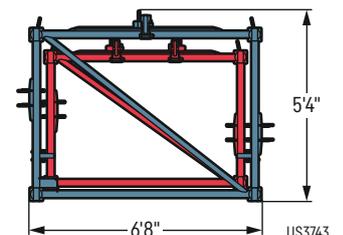
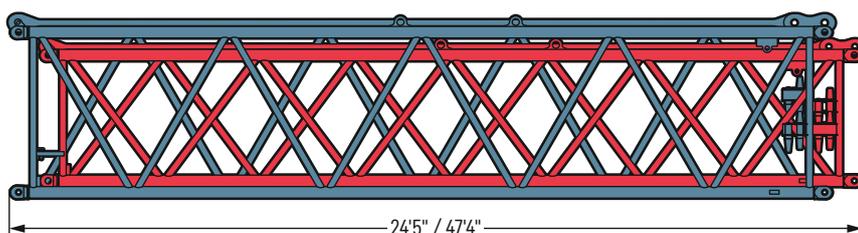


9'10" N head section · Élément de tête N



4'3" H auxiliary jib optional, dependent on boom system · Fléchette auxiliaire H en option, selon le système de flèche

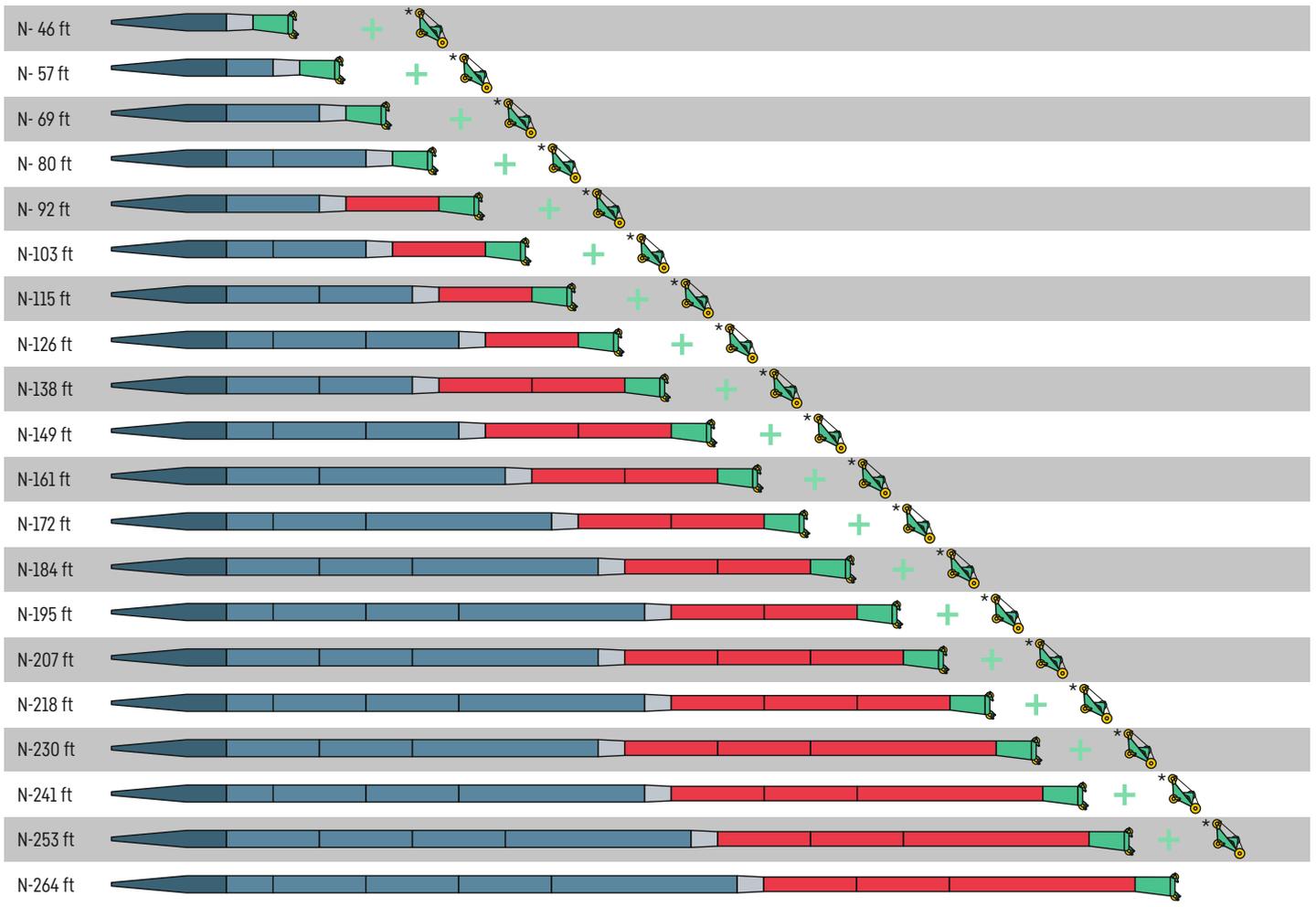
US3742



US3743

Boom/jib combinations – Luffing fly jib N

Configurations de flèche – Fléchette à volée variable



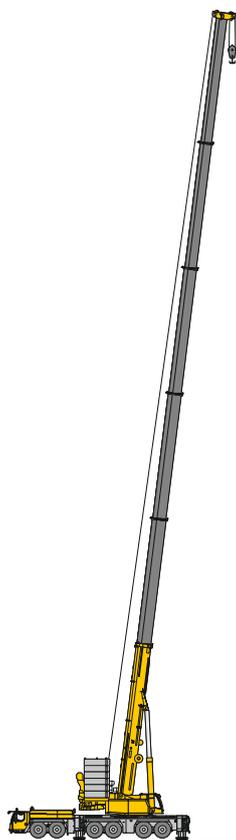
-  **29'6" N-shaped base section** · Élément de base N
-  **NA-11'6"**
-  **NA-23'**
-  **NA-46'**
-  **6'7" NI reduction section** · Élément réducteur NI
-  **NI-23'**
-  **NI-46'**
-  **9'10" N head section** · Élément de tête N
-  **4'3" H auxiliary jib optional** · Fléchette auxiliaire H en option

US3741

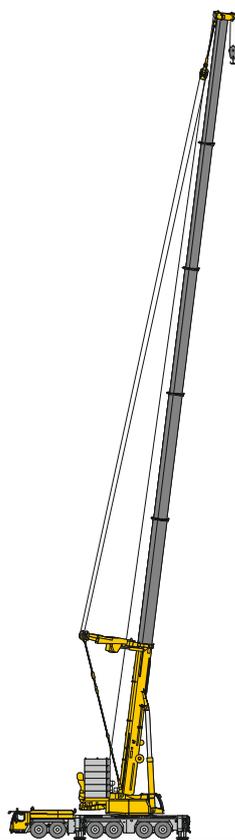
Boom/jib combinations

Configurations de flèche

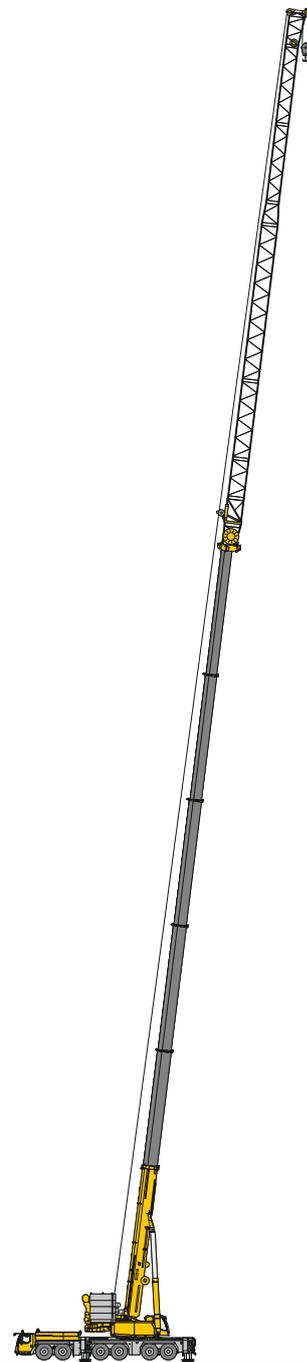
T	Telescopic boom · Flèche télescopique
Y	Y-shaped guying system · Haubanage Y
VE	11 ft 6 in Telescopic boom extension + Eccentric · Rallonge de flèche télescopique + Axe excentrique
F	Fixed lattice jib · Fléchette treillis fixe
NZF	Hydraulically adjustable lattice jib · Fléchette treillis à bras réglable hydrauliquement
N	Luffing fly jib · Fléchette treillis à volée variable



T



TY



TF/TNZF

S3723.01



TYVEF/TYVENZF

TN

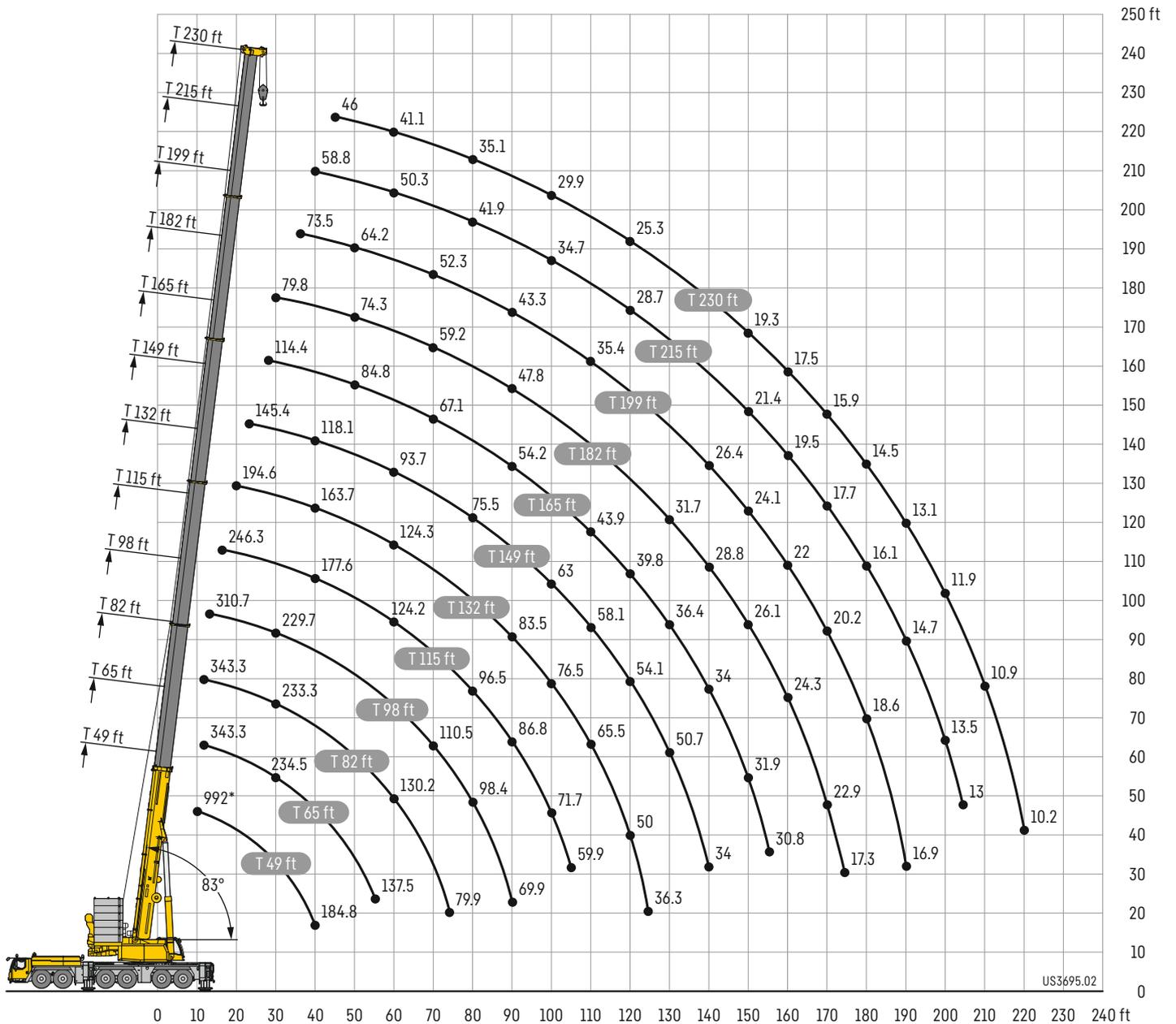
TYVEN

S3723.01

Lifting heights

Hauteurs de levage

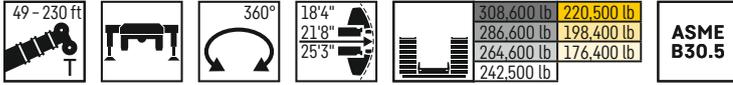
T



Lifting capacities

Forces de levage

T



49 - 230 ft

360°

18'4"
21'8"
25'3"

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

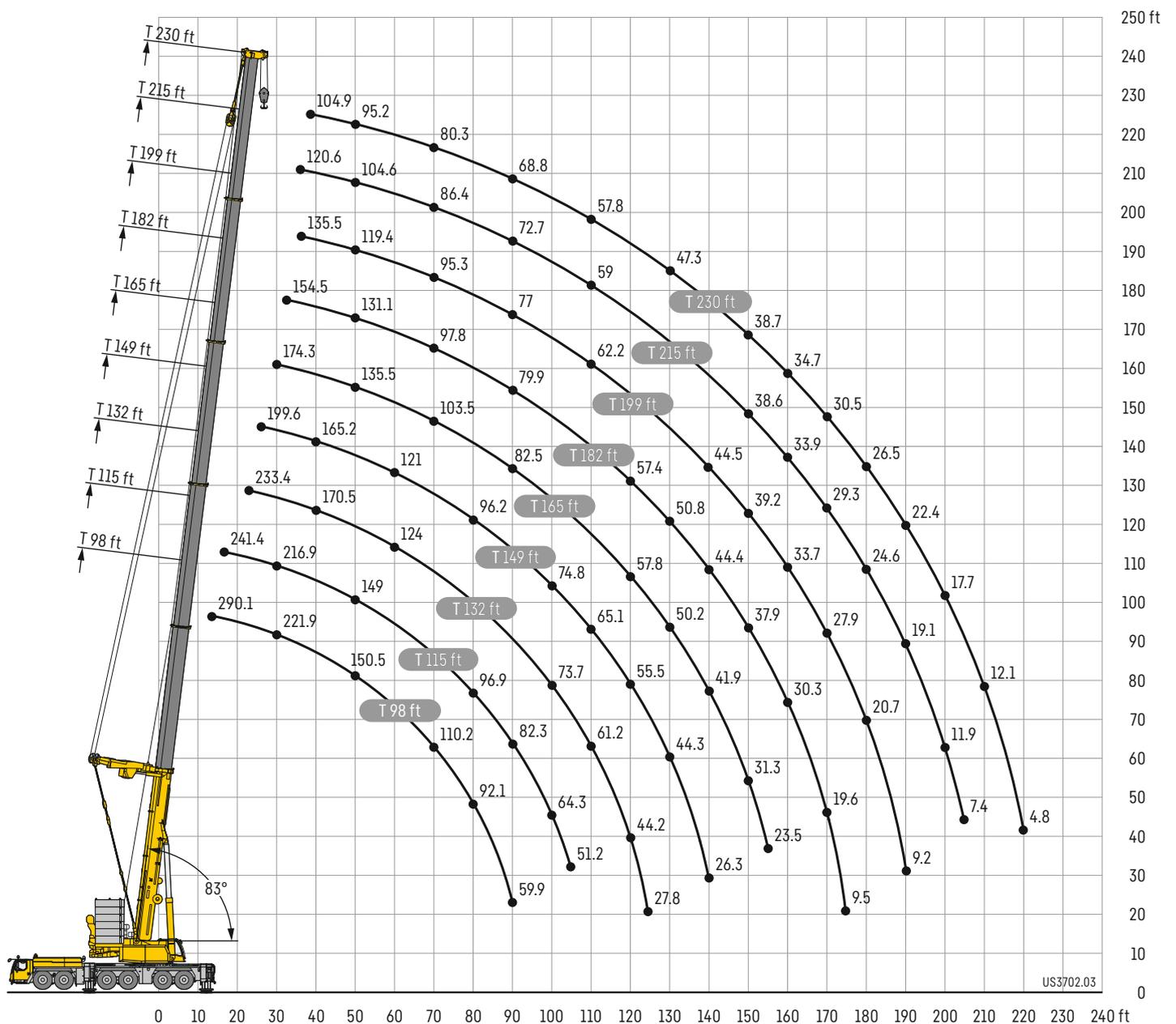
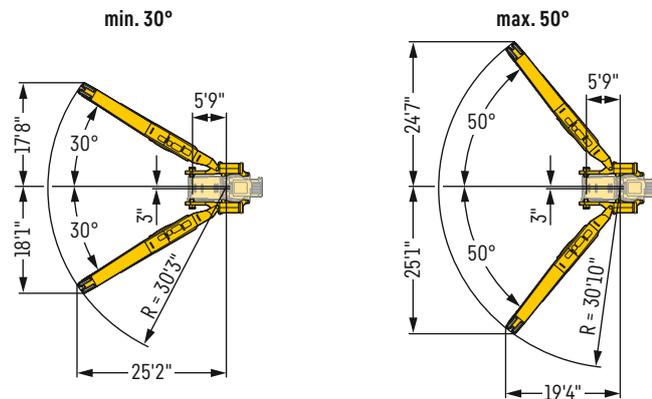
ASME B30.5

	49 ft	65 ft	82 ft	98 ft	115 ft	132 ft	149 ft	157 ft	165 ft	174 ft	182 ft	188 ft	194 ft	199 ft	204 ft	210 ft	215 ft	221 ft	227 ft	230 ft		
10	992																					
12	901.1	343.3	343.3	343.3																		12
13	343.3	343.3	343.3	343.3	310.7																	13
14	343.3	343.3	343.3	343.3	326.2																	14
15	343.3	343.3	343.3	343.3	326.2																	15
16	343.3	343.3	343.3	342.5	318.6	246.3																16
17	343.3	340.4	341.1	339.7	311.4	251.1																17
18	343.3	330.8	331.8	329.3	307.7	247.8																18
19	343.3	318.8	320.5	316.6	303.9	246.3																19
20	335.5	310.8	309.5	306.2	295.7	246.3	194.6															20
22	325.2	289.7	291.1	287.1	277.6	247.6	194.6															22
24	304.1	271	277.1	270.4	264.3	243.5	195.8	145.4														24
26	285.2	262	261.3	259.3	249.4	238.9	194.8	141.7	76.9													26
28	268.6	246.6	248.5	244.5	236	231.8	193.4	138	74.6	114.4												28
30	253.3	233	234.5	233.3	229.7	220.3	189.8	134.7	72	112	70.1	79.8										30
32	239.9	220.5	223	220.4	218.5	210.5	184.5	131.2	69.9	109.1	68.2	90.3										32
34	227.5	213.7	211.3	211.5	207.7	202.7	179	127.7	67.7	106.1	66.4	89	69.5	60.8								34
36	216.1	203.1	202	201.7	196.8	195.6	173.3	124.4	65.7	103.1	64.6	87.1	68	59.5	73.5	63.4	53.6					36
38	205.8	193.5	193.7	191.9	188.3	185.3	168.4	121	63.6	99.9	62.9	85	66.2	58.1	72.5	62.5	53.6					38
40	196.3	184.8	186.2	184.8	183.3	177.6	163.7	118.1	61.8	97.2	61.5	83.4	64.8	56.8	71.1	61.5	53.2	58.8				40
45	187.7		168	167.5	164.6	162.4	152.9	111.3	57.3	90.8	57.6	78.7	61	53.7	67.6	58.5	51.1	57	53.7	46.8	46	45
50			154.1	152.3	150.8	149.4	142.6	105	53.4	84.8	54.2	74.3	57.6	50.5	64.2	55.9	48.8	54.7	51.8	45.1	44.4	50
55			137.5	139.4	137.5	136.2	133.6	99.1	50	79.4	51.2	69.8	54.4	47.7	61	53.1	46.3	52.3	49.6	43.4	42.7	55
60				130.2	127.3	124.2	124.3	93.7	46.7	74.4	48.4	66.2	51.6	45	57.8	50.5	44.2	50.3	47.7	41.7	41.1	60
65				119.5	118.1	117	115	88.6	43.4	70.6	45.7	62.7	48.9	42.5	55	48	42.2	48.1	45.9	40.1	39.5	65
70				108.9	110.5	108.2	106.3	84	40.6	67.1	43.2	59.2	46.3	40.3	52.3	45.9	40.2	45.9	43.9	38.4	38	70
75				79.9	104.8	103.1	99.9	79.6	38.1	63.7	40.7	56.2	43.7	38.1	49.7	43.8	38.5	43.9	42.2	36.9	36.5	75
80					98.4	96.5	92	75.5	35.6	60.4	38.5	53.2	41.5	36	47.5	41.9	36.7	41.9	40.5	35.4	35.1	80
85					87.1	92.7	89.8	71.9	33.5	57.2	36.4	50.4	39.4	34	45.4	39.9	35	40	38.6	34.1	33.8	85
90					69.9	86.8	83.5	68.7	31.6	54.2	34.2	47.8	37.2	32.1	43.3	38.1	33.3	38.2	36.9	32.8	32.5	90
95					79.9	80.9	65.7	29.7	51.2	32.6	45.2	35.1	30.4	41.2	36.4	31.8	36.4	35.4	31.4	31.2		95
100					71.7	76.5	63	28.1	48.5	31	42.9	33.2	28.6	39.1	34.7	30.2	34.7	33.8	30.1	29.9		100
105					59.9	71.6	60.4	26.5	46.1	29.5	40.7	31.4	27	37.2	33.1	28.8	33.2	32.3	28.8	28.7		105
110					65.5	58.1	25.2	43.9	28.1	38.5	29.8	25.6	35.4	31.3	27.4	24.3	31.6	30.8	27.6	27.5		110
115						58.8	56	23.9	41.8	26.8	36.8	28.3	24.1	33.7	29.5	26.1	30.1	29.4	26.5	26.3		115
120						50	54.1	22.7	39.8	25.6	34.9	26.8	22.8	32	27.5	24.8	28.7	27.9	25.3	25.3		120
125						36.3	52.4	21.6	38	24.6	33.3	25.4	21.6	30.5	25.8	23.7	27.3	26.5	24.3	24.2		125
130							50.7	20.6	36.4	23.5	31.7	24.2	20.5	29.1	25	22.5	25.8	25.3	23.2	23.1		130
135							43.6	19.7	35.1	22.5	30.2	23	19.5	27.7	24.3	21.5	24.6	24	22.2	22.2		135
140							34	18.9	34	21.6	28.8	21.9	18.5	26.4	23.6	20.5	23.5	22.9	21.3	21.2		140
145								18.2	32.9	20.7	27.4	20.9	17.6	25.1	22.7	19.6	22.4	21.9	20.4	20.2		145
150								17.7	31.9	20	26.1	19.9	16.7	24.1	21.9	18.7	21.4	20.9	19.6	19.3		150
155									30.8	19.3	25	19.1	15.9	23	21.1	17.9	20.4	19.9	18.8	18.3		155
160										18.8	24.3	18.3	15.1	22	20.2	17.1	19.5	19	18.1	17.5		160
165										18.3	23.6	17.5	14.4	21	19.4	16.4	18.5	18.1	17.4	16.6		165
170											22.9	16.7	13.8	20.2	18.7	15.7	17.7	17.3	16.7	15.9		170
175											17.3	16.1	13.2	19.4	18	15.1	16.8	16.5	16	15.2		175
180												15.5	12.7	18.6	17.4	14.5	16.1	15.8	15.4	14.5		180
185													12.1	17.9	16.7	13.9	15.4	15.1	14.7	13.8		185
190														16.9	16.2	13.5	14.7	14.4	14	13.1		190
195															15.8	13	14.1	13.7	13.3	12.5		195
200																12.6	13.5	13.2	12.8	11.9		200
205																	13	12.7	12.3	11.3		205
210																		12.2	11.8	10.9		210
215																			5.6	11.2	10.5	215
220																				7.2	10.2	220

*to the rear. Ballast radius 18 ft 4 in/21 ft 8 in - à l'arrière. Rayon de lest 18 ft 4 in/21 ft 8 in

Lifting heights

Hauteurs de levage



Angle of the Y-suspension between 30° and 50° depending on the extension condition of the individual telescopic sections
 Angle du haubanage Y entre 30° et 50°, en fonction de l'état de sortie des différents éléments télescopiques

Lifting capacities

Forces de levage

TY

98 - 230 ft

18'4"
21'8"
25'3"

360°

ASME B30.5

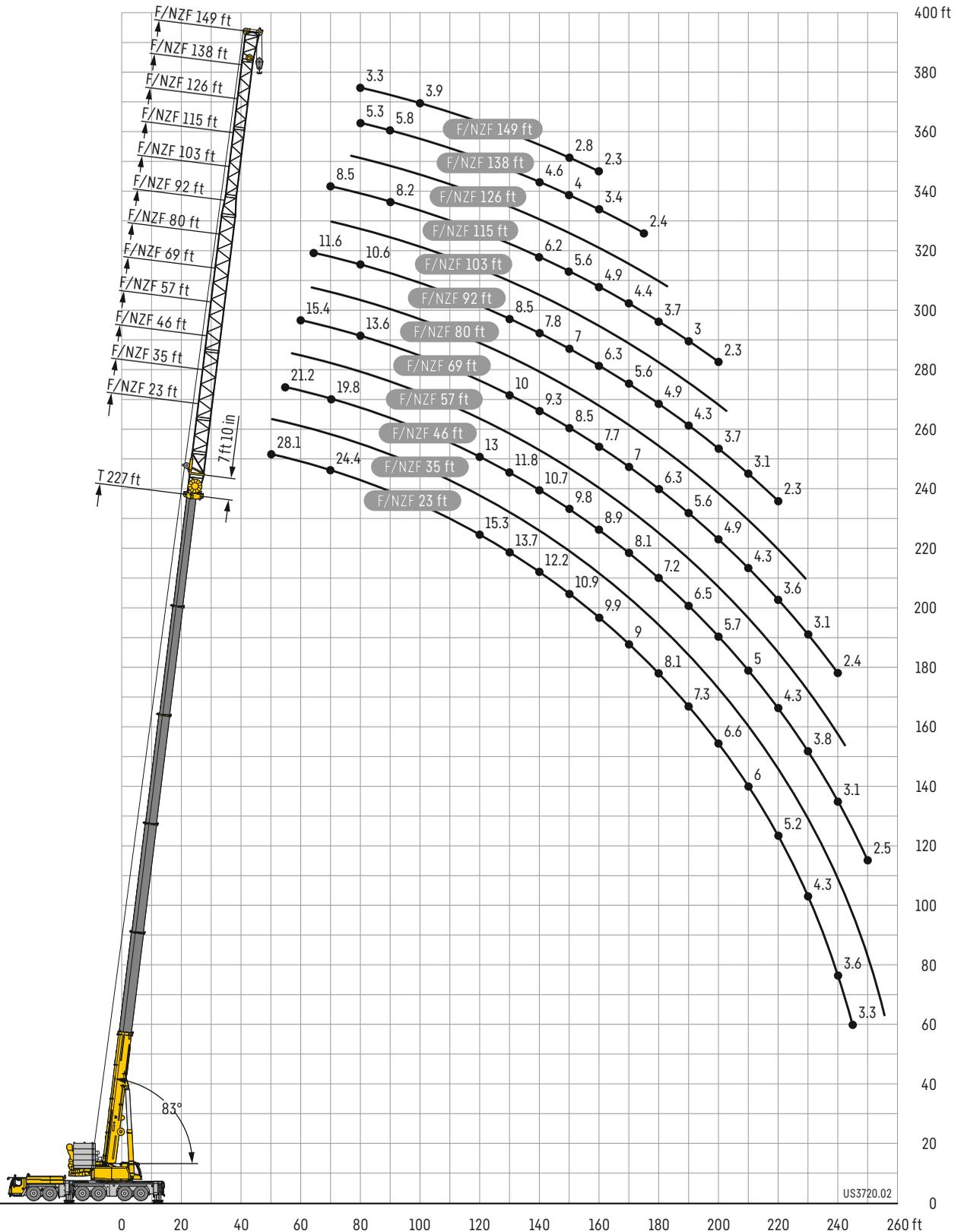
308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

	98 ft	115 ft	132 ft	149 ft	157 ft	165 ft	182 ft	194 ft	199 ft	207 ft	210 ft	215 ft	221 ft	227 ft	230 ft	
14	290.1															14
15	295															15
16	296.8	241.4														16
17	294.9	257.3														17
18	292.8	260.7														18
19	290.8	261.8														19
20	285.8	261.5														20
22	274	257.9	233.4													22
24	256.8	251.7	230.4													24
26	248.7	239.5	226.1	199.6	179.1											26
28	234.9	229.6	220.2	197.6	177.8											28
30	221.9	216.9	210.2	195.7	174.6	174.3										30
32	215.4	207.4	202.5	190.9	171.2	172.8	154.5	142.9								32
34	204.5	198.4	193	185.9	167.4	170.6	152.9	141								34
36	194.1	190.8	183.7	178.5	164.4	167.5	151.2	138.6	135.5	124.2	122	120.6	112.2			36
38	187.5	183.3	177.4	171.4	161.2	160.7	148.4	135.8	134.2	123.4	121	118.3	112.2	107.8	104.9	38
40	180.8	175.4	170.5	165.2	158.4	158.9	145.6	133.2	132.4	122	119.9	115.6	110.7	106.2	104.2	40
45	163.1	161.4	158.4	151.8	150	146.6	138.6	126.7	125.6	118.4	116.1	110.2	107.4	101.5	99.7	45
50	150.5	149	143.2	139.8	136.9	135.5	131.1	120	119.4	113.7	111.1	104.6	102.9	96.9	95.2	50
55	137.9	136.8	134.8	129.1	127.6	125.2	120	114	113.6	108.4	105.8	99.4	98.1	92.8	91.1	55
60	126.9	125.6	124	121	118.9	116.8	114.1	108.3	108.3	103.7	101.2	94.8	94.1	88.9	87.3	60
65	118.7	117.5	117	111.8	110.1	108.2	105.7	103.1	102.6	99.1	97	90.4	90	85.1	83.6	65
70	110.2	110.7	109.1	104.1	101.9	103.5	97.8	96.5	95.3	94.7	92.9	86.4	86.3	81.6	80.3	70
75	102.9	102.2	101.9	100.8	98.5	96.8	94.4	92.6	88.7	88.3	87.9	82.9	83.2	78.5	77.2	75
80	92.1	96.9	96.3	96.2	90.9	92.8	87.2	86.4	84.5	84.4	84.2	79.2	79.8	75.4	74.2	80
85	79	90.3	91.5	89.2	89.1	88.1	85.2	80.1	81.4	78.5	78.2	76.2	76.1	72.6	71.4	85
90	59.9	82.3	85.6	85.5	83.1	82.5	79.9	78.7	77	76.5	75.7	72.7	72.6	69.9	68.8	90
95		74.1	79.8	80	80.1	79.1	76.2	74.6	72.3	72.4	71.8	69.2	68.7	67.3	66.3	95
100		64.3	73.7	74.8	75.2	74.5	72.1	70.6	69	68.7	68	65.5	65.1	64.3	63.7	100
105		51.2	67.6	69.9	70.6	70	68.3	67	65.4	65.2	64.6	62.2	61.8	60.9	60.7	105
110			61.2	65.1	66.2	65.8	64.6	63.6	62.2	61.9	61.4	59	58.7	58	57.8	110
115			53.7	60.3	61.8	61.7	61	60.4	59	58.8	58.4	56	55.8	55.1	54.9	115
120			44.2	55.5	57.6	57.8	57.4	57.3	55.9	55.9	55.6	53.2	53	52.4	52.3	120
125			27.8	50.2	53.2	54	54	54.1	53	53.2	52.9	50.5	50.4	49.8	49.8	125
130				44.3	48.8	50.2	50.8	51.1	50.2	50.6	50.2	48	47.9	47.4	47.3	130
135				37.1	43.9	46.2	47.6	48.2	47.3	47.9	47.7	45.6	45.5	45.1	45.1	135
140				26.3	38.3	41.9	44.4	45.3	44.5	45.3	45.2	43.3	43.2	42.9	42.9	140
145					31	37.1	41.2	42.5	41.7	42.7	42.7	40.9	41.1	40.7	40.7	145
150					19	31.3	37.9	39.7	39.2	40.3	40.2	38.6	38.9	38.7	38.7	150
155						23.5	34.3	36.8	36.5	37.7	37.8	36.2	36.6	36.6	36.7	155
160							30.3	33.8	33.7	35.3	35.4	33.9	34.5	34.5	34.7	160
165							25.6	30.7	30.9	32.8	33	31.6	32.3	32.4	32.6	165
170							19.6	27.2	27.9	30.2	30.5	29.3	30.1	30.4	30.5	170
175							9.5	23.3	24.6	27.6	28	27	27.9	28.3	28.6	175
180								18.2	20.7	24.6	25.3	24.6	25.7	26.3	26.5	180
185								10.8	16	21.4	22.3	21.9	23.4	24.1	24.5	185
190									9.2	17.6	18.9	19.1	21	22	22.4	190
195										12.7	14.9	15.9	18.2	19.7	20.2	195
200										5.8	9.6	11.9	15.2	17	17.7	200
205												7.4	11.6	14.3	15.2	205
210													7.5	10.9	12.1	210
215														7.3	9	215
220															4.8	220

Lifting heights

Hauteurs de levage

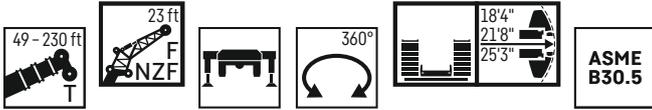
TF/TNZF



Lifting capacities

Forces de levage

TF/TNZF 23 ft



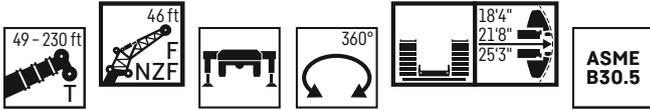
	199 ft + 7'10"*				210 ft + 7'10"*				215 ft + 7'10"*				227 ft + 7'10"*				230 ft + 7'10"*							
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°				
45	43.9				32.8																45			
50	42.3	42.3			31.5	31.4			35							28.1				27.1	50			
55	40.6	40.6	40.7		30.3	30.2	30.1		33.4	33.9					27.4	27.3			25.7	25.9	55			
60	38.9	38.9	39	39.4	29.1	28.9	28.9		32.6	32.5	32.6				26.5	26.5	26.5		25.6	25.9	60			
65	37.2	37.3	37.4	37.7	27.9	27.7	27.7	28	31.7	31.7	31.6	32			25.3	25.5	25.7		24.9	25	25.2	65		
70	35.6	35.6	35.8	36.2	26.6	26.6	26.6	26.9	30.5	30.5	30.6	30.9			24.4	24.5	24.8	25.2	23.9	24	24.3	24.6	70	
75	34.2	34.2	34.2	34.7	25.4	25.5	25.5	25.8	29.3	29.4	29.5	29.8			23.4	23.6	23.8	24.2	23	23	23.3	23.7	75	
80	32.6	32.7	32.8	33.2	24.1	24.2	24.6	24.6	28.1	28.2	28.3	28.7			22.4	22.6	22.8	23.3	22	22.2	22.4	22.8	80	
85	31.1	31.3	31.3	31.8	22.9	23	23.3	23.6	27	27.1	27.2	27.6			21.5	21.6	21.8	22.4	21.1	21.2	21.5	22	85	
90	29.6	29.9	30	30.3	21.8	21.9	22.2	22.5	25.9	26	26.1	26.6			20.5	20.6	20.9	21.3	20.2	20.3	20.5	21	90	
95	28.2	28.4	28.7	29	20.7	20.9	21.1	21.5	24.8	24.9	24.9	25.5			19.5	19.7	19.9	20.4	19.3	19.4	19.6	20.1	95	
100	26.8	27.1	27.3	27.7	19.6	19.9	19.9	20.4	23.8	23.9	23.9	24.4			18.7	18.8	19	19.5	18.5	18.7	18.8	19.2	100	
105	25.4	25.8	25.9	26.4	18.6	18.8	18.9	19.3	22.7	22.9	22.9	23.3			17.8	18	18.2	18.5	17.6	17.8	18	18.3	105	
110	24.2	24.4	24.7	25.1	17.5	17.7	17.8	18.3	21.6	21.8	21.9	22.2			17	17.1	17.3	17.6	16.8	17	17.1	17.4	110	
115	22.9	23.2	23.4	23.8	16.6	16.7	16.9	17.2	20.7	20.8	20.9	21.2			16.1	16.3	16.4	16.7	16	16.1	16.2	16.6	115	
120	21.7	21.9	22.1	22.5	15.6	15.7	15.9	16.2	19.7	19.9	19.9	20.2			15.3	15.4	15.5	15.9	15.2	15.3	15.3	15.7	120	
125	20.4	20.7	20.8	21.3	14.7	14.8	14.9	15.2	18.7	18.8	19	19.2			14.5	14.6	14.7	14.9	14.4	14.4	14.5	14.6	14.9	125
130	19.2	19.4	19.6	20	13.8	13.9	14	14.3	17.7	17.9	18	18.3			13.7	13.8	13.9	14.1	13.6	13.7	13.8	14.1	130	
135	18.2	18.3	18.4	18.8	12.9	13	13.2	13.5	16.7	16.9	17	17.3			12.9	13.1	13.1	13.4	12.9	13	13.1	13.3	135	
140	17.1	17.2	17.4	17.6	12.1	12.2	12.4	12.6	15.7	15.9	16.1	16.3			12.2	12.3	12.5	12.7	12.2	12.3	12.4	12.6	140	
145	15.9	16.1	16.3	16.6	11.4	11.5	11.7	11.9	14.8	15	15.1	15.4			11.5	11.6	11.8	12	11.5	11.7	11.7	11.9	145	
150	14.9	15.2	15.3	15.5	10.7	10.9	11	11.2	13.9	14.1	14.2	14.5			10.9	11	11.1	11.4	10.9	11.1	11.1	11.3	150	
155	14	14.1	14.3	14.6	10.1	10.2	10.4	10.5	13	13.2	13.4	13.6			10.4	10.5	10.6	10.8	10.3	10.5	10.6	10.7	155	
160	13	13.2	13.4	13.7	9.6	9.7	9.8	9.9	12.3	12.4	12.5	12.7			9.9	10	10.1	10.2	9.9	10	10	10.2	160	
165	12.2	12.4	12.5	12.8	9.1	9.2	9.3	9.4	11.6	11.7	11.8	11.9			9.4	9.5	9.6	9.7	9.4	9.5	9.6	9.7	165	
170	11.5	11.7	11.7	12	8.6	8.7	8.8	8.9	10.8	11	11.1	11.3			9	9	9.1	9.3	8.9	9	9.1	9.3	170	
175	10.7	10.9	11		8.1	8.2	8.3	8.4	10.2	10.3	10.5	10.6			8.5	8.6	8.7	8.8	8.5	8.6	8.7	8.8	175	
180	10.2	10.3	10.3		7.7	7.8	7.9	7.9	9.6	9.7	9.9	10			8.1	8.2	8.3	8.4	8.1	8.2	8.2	8.4	180	
185	9.7	9.8	9.9		7.3	7.4	7.4		9.1	9.2	9.3	9.4			7.7	7.8	7.8	8	7.7	7.8	7.8	8	185	
190	9.3	9.4	9.4		6.9	7	7		8.6	8.7	8.8				7.3	7.4	7.4	7.5	7.2	7.3	7.4	7.5	190	
195	8.9	9	9		6.5	6.6	6.6		8.1	8.2	8.3				7	7.1	7.1		6.7	6.8	6.9	7	195	
200	8.5	8.5	8.6		6.1	6.2	6.2		7.7	7.7	7.8				6.6	6.7	6.7		6.2	6.3	6.4		200	
205	8.1	8.1	8.2		5.8	5.8	5.9		7.2	7.3	7.4				6.3	6.4	6.4		5.7	5.8	5.9		205	
210	7.8	7.8	7.9		5.5	5.5	5.6		6.7	6.8	6.9				6	6	6.1		5.2	5.3	5.4		210	
215	7.5	7.5			5.2	5.2	5.2		6.3	6.4	6.4				5.6	5.7	5.7		4.8	4.9	5		215	
220	7.2	7.3			4.9	4.9	4.9		6	6	6				5.2	5.2	5.3		4.3	4.4	4.5		220	
225					4.7	4.7			5.6	5.7	5.7				4.7	4.8	4.9		3.9	4	4.1		225	
230					4.4	4.4			5.3	5.3					4.3	4.4	4.4		3.5	3.6	3.7		230	
235									4.9	4.9					4	4	4		3.2	3.2	3.3		235	
240															3.6	3.7			2.8	2.9			240	
245															3.3	3.4			2.5	2.5			245	
250																			2.3	2.3			250	

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TF/TNZF 46 ft

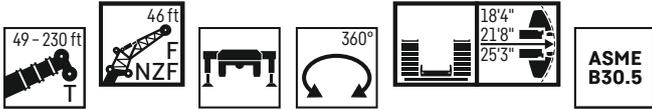


	49 ft + 7'10"				132 ft + 7'10"				149 ft + 7'10"				165 ft + 7'10"				182 ft + 7'10"				194 ft + 7'10"								
	F/NZF 46 ft																												
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
14	68.3																												14
15	66.8																												15
16	65.7																												16
17	64.4																												17
18	63.2																												18
19	61.9																												19
20	60.9																												20
22	58.7	52.8																											22
24	56.6	50.9																											24
26	54.8	49.1																											26
28	53	47.4																											28
30	51.2	45.9	41		65.2																								30
32	49.4	44.4	39.7		64																								32
34	47.9	43	38.6		62.5				58.7																				34
36	46.3	41.7	37.7		61.3				57.8																				36
38	44.7	40.5	36.7		60.2	50.8			56.8																				38
40	43.4	39.5	35.8		58.9	49.8			55.8																				40
45	40.2	36.8	33.7	28.6	56.1	47.5	40.2		53.5	46.2																			45
50	37.6	34.6	31.9	27.6	53.6	45.4	38.7		51.6	44.3	38.1																		50
55	35.2	32.7	30.4	26.8	51.2	43.4	37.4		49.6	42.6	36.8																		55
60	33.1	31	29.2	26.1	48.9	41.7	36.2	28.7	47.7	41.1	35.7																		60
65	31.3	29.6	28.1	25.6	46.7	40.1	35	28.1	45.8	39.7	34.7	27.9																	65
70	29.7	28.4	27.1	25.3	44.6	38.6	33.8	27.6	44.1	38.3	33.8	27.5																	70
75	28.4	27.4	26.4	25	42.8	37.2	32.9	27.2	42.5	37	32.8	27.1																	75
80	27.2	26.5	25.9	24.9	41	36	32	26.8	40.8	35.9	32	26.7																	80
85	26.2	25.8	25.6	24.8	39.5	34.9	31.2	26.5	39.4	34.8	31.2	26.3																	85
90	25.6	25.4	25.5		38.1	33.8	30.4	26.2	38	33.8	30.4	26.1																	90
95	24.9	24.9			36.6	32.8	29.7	25.9	36.6	32.9	29.8	25.8																	95
100					35.4	31.8	29.1	25.7	35.3	32.1	29.1	25.6																	100
105					34.2	31	28.5	25.5	33.9	31.3	28.6	25.4																	105
110					33.2	30.2	28	25.4	32.4	30.5	28.1	25.2																	110
115					32.2	29.5	27.6	25.2	30.7	29.5	27.6	25.1																	115
120					31.2	28.9	27.1	25.1	29.1	28.4	27.1	25																	120
125					30.3	28.3	26.7	24.9	27.4	27.2	26.5	24.9																	125
130					29.5	27.7	26.4	24.9	25.9	26	25.8	24.8																	130
135					28.7	27.2	26.1	24.9	24.5	24.8	24.9	24.7																	135
140					28.1	26.8	25.8	24.9	23.2	23.4	23.7	24.2																	140
145					27.5	26.4	25.7	24.9	22	22.3	22.5	22.9																	145
150					26.9	26	25.6		20.8	21.1	21.3	21.7																	150
155					26.4	25.7	25.6		19.7	19.9	20.2	20.6																	155
160					26	25.6	25.5		18.7	18.9	19.1																		160
165					25.7	25.3	25.3		17.6	17.9	18.1																		165
170					25.2	25	25.2		16.6	16.9	17.1																		170
175					20.2	22.3			15.7	15.9	16.1																		175
180									15	15.1	15.2																		180
185									14.4	14.5	14.6																		185
190									13.9	14																			190
195									9.1																				195
200																													200
205																													205
210																													210
215																													215
220																													220
225																													225
230																													230
235																													235

Lifting capacities

Forces de levage

TF/TNZF 46 ft



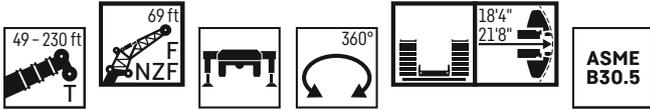
	199 ft + 7'10"*				210 ft + 7'10"*				215 ft + 7'10"*				227 ft + 7'10"*				230 ft + 7'10"*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
50	33.4				24.7				26.1				21.2				20.6				50
55	33				24.4				26.1				21.2				20.6				55
60	32.3	32.1			23.7				25.5				20.8				20.1				60
65	31.2	31.1			22.8	22.8			24.6	24.7			20.2				19.6				65
70	30	30	29.5		21.9	22	22		24.5	24.4			19.8	19.8			19.2	19.2			70
75	28.8	28.9	28.8		21.1	21.1	21.1		24.2	24	23.8		19.1	19.2	19.2		18.8	18.8			75
80	27.7	27.8	27.8	25.3	20.4	20.3	20.3		23.4	23.4	23.3		18.6	18.6	18.6		18.2	18.1	18.2		80
85	26.7	26.8	26.8	25	19.5	19.5	19.4	19.6	22.7	22.6	22.5		18	17.9	17.9		17.6	17.6	17.5		85
90	25.7	25.8	25.8	24.8	18.8	18.7	18.5	18.8	22	21.8	21.7	21.8	17.3	17.3	17.3	17.5	16.9	17	17	17.2	90
95	24.6	24.7	24.8	24.4	17.9	17.8	17.7	17.9	21.1	21	20.9	21	16.6	16.6	16.7	16.9	16.2	16.3	16.4	16.6	95
100	23.6	23.8	23.9	23.7	17.1	17	17	17.2	20.4	20.2	20.1	20.2	15.8	16	16	16.2	15.5	15.7	15.7	16	100
105	22.6	22.7	22.8	22.8	16.2	16.2	16.2	16.5	19.5	19.4	19.4	19.5	15.1	15.3	15.4	15.6	14.9	15	15.1	15.4	105
110	21.7	21.7	21.8	21.9	15.3	15.5	15.4	15.7	18.7	18.7	18.6	18.8	14.4	14.6	14.7	15	14.2	14.4	14.6	14.8	110
115	20.7	20.7	20.9	21.2	14.5	14.7	14.8	15	17.9	17.9	17.9	18.1	13.8	14	14.1	14.3	13.5	13.7	13.9	14.2	115
120	19.7	19.8	19.9	20.3	13.7	14	14.1	14.3	17.1	17.2	17.2	17.4	13	13.3	13.4	13.8	12.9	13.1	13.3	13.6	120
125	18.7	18.9	19	19.4	12.9	13.2	13.4	13.7	16.3	16.5	16.5	16.8	12.4	12.7	12.8	13.2	12.2	12.4	12.7	13.1	125
130	17.7	18	18.1	18.5	12.2	12.4	12.7	13.1	15.6	15.7	15.9	16.1	11.8	12	12.2	12.6	11.6	11.8	12.1	12.5	130
135	16.8	17	17.3	17.7	11.6	11.7	12	12.4	14.8	14.9	15.2	15.5	11.3	11.4	11.5	12	11.1	11.2	11.4	12	135
140	15.8	16.1	16.4	16.9	10.9	11.1	11.3	11.8	14.1	14.2	14.4	14.9	10.7	10.9	11	11.4	10.5	10.7	10.9	11.4	140
145	14.9	15.2	15.4	16	10.3	10.5	10.7	11.1	13.3	13.6	13.7	14.1	10.2	10.3	10.5	10.9	10.1	10.3	10.4	10.8	145
150	14	14.4	14.6	15.2	9.8	10	10.2	10.6	12.6	12.9	13	13.5	9.8	9.9	10.1	10.4	9.6	9.8	10	10.4	150
155	13.1	13.5	13.7	14.3	9.3	9.5	9.7	10	11.9	12.2	12.4	12.8	9.3	9.4	9.6	9.9	9.2	9.4	9.5	9.9	155
160	12.2	12.6	12.9	13.5	8.8	9	9.2	9.5	11.4	11.6	11.8	12.3	8.9	9	9.2	9.5	8.8	8.9	9.1	9.4	160
165	11.6	11.8	12.1	12.7	8.3	8.5	8.7	9	10.8	11	11.2	11.6	8.5	8.6	8.7	9.1	8.4	8.5	8.7	9	165
170	10.9	11.1	11.3	11.9	7.9	8	8.2	8.5	10.2	10.4	10.6	11.1	8.1	8.1	8.3	8.6	8	8.1	8.3	8.6	170
175	10.3	10.6	10.7	11.1	7.5	7.6	7.8	8.1	9.7	9.9	10.1	10.5	7.7	7.8	7.9	8.2	7.6	7.7	7.9	8.2	175
180	9.8	10	10.2	10.5	7.1	7.2	7.4	7.6	9.1	9.3	9.6	10	7.2	7.4	7.5	7.8	7.2	7.4	7.5	7.8	180
185	9.2	9.5	9.6	10	6.7	6.8	7	7.2	8.6	8.8	9.1	9.4	6.8	7	7.2	7.4	6.8	7	7.2	7.4	185
190	8.7	9	9.1	9.4	6.3	6.5	6.6	6.7	8.2	8.4	8.6	8.9	6.5	6.7	6.8	7	6.4	6.6	6.8	7	190
195	8.2	8.4	8.6	8.8	5.9	6.1	6.2	6.4	7.7	7.9	8.1	8.4	6.1	6.3	6.5	6.7	6	6.3	6.4	6.7	195
200	7.8	7.9	8.1		5.5	5.7	5.8	6	7.3	7.5	7.6	7.9	5.7	5.9	6.1	6.3	5.6	5.8	6	6.3	200
205	7.3	7.5	7.6		5.1	5.3	5.4	5.6	6.8	7	7.2	7.4	5.4	5.6	5.7	5.9	5.2	5.4	5.6	5.9	205
210	7	7.1	7.2		4.8	4.9	5		6.4	6.6	6.8		5	5.2	5.3	5.6	4.8	5	5.3	5.5	210
215	6.7	6.8	6.8		4.4	4.5	4.7		6	6.2	6.4		4.7	4.9	5	5.2	4.4	4.6	4.8	5.1	215
220	6.3	6.4	6.5		4.1	4.2	4.3		5.5	5.8	5.9		4.3	4.5	4.6		4	4.2	4.4		220
225	6	6.1	6.1		3.8	3.9	4		5.1	5.3	5.5		4.1	4.2	4.3		3.6	3.7	3.9		225
230	5.7	5.8	5.8		3.4	3.5	3.6		4.7	4.9	5		3.8	3.9	4		3.2	3.4	3.5		230
235	5.5	5.5			3.1	3.2	3.3		4.3	4.5	4.6		3.5	3.6	3.7		2.8	3	3.1		235
240	5.2	5.2			2.9	3	3		3.9	4.1	4.2		3.1	3.3	3.4		2.3	2.6	2.7		240
245					2.6	2.7			3.6	3.7	3.8		2.8	3	3				2.2		245
250					2.4	2.5			3.3	3.4			2.5	2.6	2.7						250
255					2.3				3	3					2.3						255

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TF/TNZF 69 ft

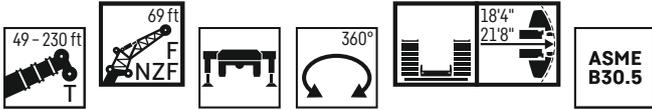


	49 ft + 7'10"				132 ft + 7'10"				149 ft + 7'10"				165 ft + 7'10"				182 ft + 7'10"				194 ft + 7'10"									
	F/NZF 69 ft																													
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°		
18	46.5																												18	
19	45.5																												19	
20	44.5																												20	
22	43																												22	
24	41.6																												24	
26	40.1																												26	
28	38.9																												28	
30	37.6	34																											30	
32	36.4	32.9			45.5																								32	
34	35.3	31.9			44.4																								34	
36	34.2	30.8			43.5																								36	
38	33.2	29.8			42.5			40.3																					38	
40	32.2	28.9			41.7			39.6																					40	
45	29.6	26.7	23.9		39.7	33.3		37.9					35.1																45	
50	27.3	24.9	22.4		37.7	31.7		36.3	30.9				33.8								30.6								50	
55	25.4	23.2	21.1		36	30.2		34.8	29.6				32.6	28.2							29.7						20.9		55	
60	23.7	21.7	19.9	16.7	34.4	28.7	24	33.5	28.3				31.5	27.2							28.7						20.3		60	
65	22	20.4	18.9	16	32.8	27.4	23	32.1	27	22.8			30.4	26.1							27.8	24.4					19.6		65	
70	20.8	19.3	17.9	15.4	31.2	26.2	22.3		30.8	26	22		29.4	25.2	21.6					26.9	23.6					19	18.7		70	
75	19.5	18.3	17.1	14.8	29.8	25.1	21.5	16.5	29.5	25	21.4		28.2	24.2	20.9					26.1	23	20				18.2	18.1		75	
80	18.4	17.4	16.3	14.4	28.4	24.1	20.7	16.2	28.3	24.1	20.7	16	27.2	23.4	20.2					25.3	22.2	19.5				17.5	17.4	17.2	80	
85	17.5	16.6	15.7	14	27.1	23.2	20.1	15.8	27.1	23.2	20.1	15.7	26.2	22.7	19.7	15.4				24.4	21.6	19				16.7	16.8	16.5	85	
90	16.6	15.8	15.1	13.8	25.9	22.3	19.5	15.4	26	22.4	19.5	15.4	25.2	21.9	19.1	15.2	23.7	20.9	18.5	14.8	18	14.7				16	16	16	90	
95	15.8	15.2	14.6	13.6	24.9	21.5	18.9	15.2	25	21.6	18.9	15.1	24.3	21.3	18.6	14.9	23	20.3	18	14.7	15.2	15.2	15.3						95	
100	15.2	14.7	14.2	13.5	23.8	20.7	18.4	14.9	24	20.9	18.4	14.9	23.5	20.6	18.2	14.7	22.3	19.8	17.6	14.5	14.5	14.5	14.6	14.1						100
105	14.6	14.2	13.9	13.5	22.8	20.1	17.8	14.7	23.1	20.3	17.9	14.6	22.8	20	17.7	14.5	21.7	19.3	17.2	14.3	13.8	13.8	13.9	13.9						105
110	14.1	14	13.8		21.9	19.4	17.3	14.4	22.3	19.6	17.4	14.3	22	19.4	17.3	14.2	21	18.8	16.8	14.2	13.1	13.1	13.3	13.6						110
115	13.8	13.8	13.8		21.2	18.8	16.9	14.2	21.5	19.1	17	14.2	21.3	18.9	16.9	14	20.4	18.3	16.5	14	12.5	12.5	12.6	13						115
120					20.4	18.2	16.5	14	20.7	18.5	16.6	14	20.6	18.4	16.5	13.9	19.8	17.8	16.1	13.9	11.9	11.9	12	12.4						120
125					19.7	17.7	16.1	13.9	20.1	18	16.2	13.9	20	17.9	16.2	13.8	19.1	17.4	15.8	13.7	11.3	11.4	11.5	11.8						125
130					19	17.2	15.7	13.8	19.5	17.5	15.9	13.7	19.4	17.5	15.8	13.6	18.3	17	15.5	13.6	10.7	10.8	11	11.3						130
135					18.4	16.7	15.4	13.7	18.9	17	15.5	13.6	18.7	17.1	15.5	13.5	17.3	16.6	15.2	13.3	10.2	10.4	10.5	10.8						135
140					17.8	16.3	15.1	13.6	18.3	16.6	15.2	13.5	18	16.6	15.2	13.4	16.4	16	14.9	13.3	9.7	9.9	10.1	10.4						140
145					17.2	15.9	14.8	13.5	17.8	16.2	15	13.5	17.3	16.2	15	13.4	15.4	15.4	14.6	13.2	9.2	9.5	9.7	10						145
150					16.7	15.5	14.6	13.5	17.3	15.8	14.7	13.4	16.6	15.9	14.7	13.3	14.5	14.8	14.3	13.1	8.7	9	9.2	9.6						150
155					16.2	15.2	14.3	13.5	16.8	15.5	14.5	13.4	15.8	15.6	14.5	13.3	13.7	14.1	13.9	13	8.2	8.5	8.8	9.2						155
160					15.8	14.9	14.2	13.5	16.3	15.2	14.3	13.4	14.9	15.1	14.3	13.3	12.9	13.3	13.5	13	7.7	8.1	8.3	8.8						160
165					15.4	14.6	14	13.5	15.9	14.9	14.1	13.4	14	14.4	14.1	13.3	12.1	12.5	12.9	12.9	7.3	7.6	7.9	8.4						165
170					15	14.4	13.9	13.5	15.4	14.6	14	13.4	13.2	13.6	13.6	13.3	11.5	11.7	12.3	12.8	6.9	7.2	7.4	7.9						170
175					14.7	14.1	13.8		14.9	14.4	13.8	13.4	12.4	12.8	13	13.1	10.8	11	11.5	12.2	6.4	6.7	7	7.4						175
180					14.4	14	13.8		14.3	14.1	13.7	13.4	11.7	12.1	12.4	12.7	10.2	10.5	10.8	11.4	6	6.3	6.6	7						180
185					14.1	13.9	13.8		13.6	13.8	13.5		11.1	11.5	11.8	12.2	9.6	9.9	10.3	10.8	5.5	5.9	6.2	6.6						185
190					13.9	13.8	13.8		12.9	13.1	13.4		10.5	10.8	11	11.5	9.1	9.4	9.7	10.1	5.1	5.4	5.7	6.1						190
195					13.8	13.8			12.2	12.4	12.6		10	10.3	10.4		8.6	8.9	9.2	9.6	4.7	5	5.3	5.7						195
200					12.1	13.8			11.5	11.7	11.9		9.5	9.7	9.9		8.2	8.5	8.7	9.1	4.3	4.6	4.9	5.3						200
205									11	11.1	11.3		9	9.2	9.4		7.7	8	8.2	8.6	3.9	4.2	4.5	4.8						205
210									10.4	10.6			8.6	8.7	8.9		7.3	7.6	7.8		3.5	3.8	4.1	4.4						210
215									10.1	10.2			8.2	8.3	8.4		6.9	7.1	7.3		3.2	3.4	3.7	3.9						215
220													7.8	7.9	8		6.5	6.7	6.9		2.8	3.1	3.3							220
225													7.4	7.5	7.6		6.1	6.3	6.5		2.3	2.6	2.9							225
230													7.1	7.2			5.8	5.9	6				2.4							230
235													5.2				5.5	5.6	5.7											235
240																	5.3	5.3	5.4											240
245																	5	5.1												245
250																	3.6													250

Lifting capacities

Forces de levage

TF/TNZF 69 ft



ASME B30.5

	199 ft + 7'10"*				210 ft + 7'10"*				215 ft + 7'10"*				227 ft + 7'10"*				230 ft + 7'10"*					
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°**		
55	25				18.1				19.2												55	
60	24.2				17.4				18.5								15.4				60	
65	23.8				17.4				18.3								15.1				65	
70	23.6	21.8			17.2				18.2								14.7				70	
75	23.1	21.3			16.7	16.6			18.1	18.1							14.1	14.3			75	
80	22.6	20.8	18.8		16.1	16.1			17.9	17.9							13.6	14.1			80	
85	22.1	20.3	18.3		15.6	15.6	15.4		17.8	17.7							13.6	13.8			85	
90	21.5	19.9	17.9		14.9	15	14.9		17.4	17.4	16.4						13.5	13.5	13.5		90	
95	20.8	19.4	17.6		14.4	14.4	14.4		16.9	16.8	16.2						13.1	13.1	13.2		95	
100	20.1	19	17.3	14.4	13.8	13.8	13.8		16.4	16.3	15.9						12.6	12.6	12.7		100	
105	19.3	18.6	17	14.3	13.2	13.2	13.3	13.5	15.8	15.7	15.6	13.7					12.2	12.2	12.3		105	
110	18.5	18.1	16.6	14.1	12.6	12.6	12.7	13	15.2	15.2	15.1	13.6					11.7	11.7	11.8	12.1	110	
115	17.8	17.6	16.3	14	12	12.1	12.2	12.5	14.7	14.6	14.6	13.4					11.2	11.3	11.3	11.7	115	
120	17	17	16	13.8	11.5	11.6	11.6	11.9	14.1	14	14.1	13.3					10.8	10.9	11	11.2	120	
125	16.2	16.4	15.7	13.7	11	11.1	11.2	11.4	13.6	13.5	13.5	13.3					10.5	10.5	10.6	10.8	125	
130	15.5	15.7	15.3	13.6	10.5	10.7	10.8	11	13	13	13	13.2					10	10.2	10.2	10.5	130	
135	14.8	15	14.9	13.5	10.1	10.2	10.4	10.6	12.5	12.5	12.6	12.8					9.7	9.9	9.9	10.2	135	
140	14.1	14.3	14.5	13.5	9.7	9.8	10	10.2	12	12	12.1	12.4					9.3	9.5	9.6	9.8	140	
145	13.4	13.7	13.9	13.4	9.2	9.4	9.6	9.9	11.4	11.6	11.6	11.9					8.9	9.1	9.3	9.5	145	
150	12.8	13	13.2	13.3	8.8	9	9.2	9.5	11	11.2	11.2	11.5					8.5	8.8	8.9	9.2	150	
155	12.2	12.5	12.6	13	8.4	8.7	8.8	9.2	10.6	10.8	10.8	11.1					8.1	8.4	8.6	8.9	155	
160	11.5	11.9	12.1	12.5	8	8.3	8.5	8.8	10.1	10.4	10.5	10.7					7.7	8	8.2	8.6	160	
165	11	11.3	11.5	12	7.6	7.8	8.1	8.5	9.7	10	10.1	10.4					7.4	7.6	7.9	8.3	165	
170	10.4	10.7	11	11.5	7.2	7.4	7.7	8.1	9.3	9.6	9.8	10.1					7	7.3	7.6	7.9	170	
175	9.8	10.2	10.5	11	6.8	7	7.3	7.7	9	9.2	9.4	9.7					6.6	6.9	7.2	7.6	175	
180	9.3	9.7	10	10.4	6.4	6.6	6.9	7.3	8.5	8.8	9	9.4					6.3	6.5	6.8	7.2	180	
185	8.8	9.2	9.5	9.9	6	6.2	6.5	6.9	8.1	8.4	8.6	9					5.9	6.2	6.5	6.9	185	
190	8.4	8.7	9	9.5	5.6	5.9	6.2	6.5	7.7	8	8.3	8.6					5.6	5.9	6.1	6.5	190	
195	7.9	8.2	8.6	9	5.2	5.5	5.8	6.1	7.3	7.6	7.9	8.3					5.2	5.5	5.8	6.2	195	
200	7.5	7.8	8.1	8.5	4.8	5.1	5.4	5.8	6.9	7.2	7.5	7.9					4.9	5.2	5.4	5.9	200	
205	7.1	7.3	7.6	8	4.5	4.7	5	5.4	6.4	6.8	7.1	7.5					4.6	4.8	5.1	5.5	205	
210	6.6	6.9	7.1	7.5	4.1	4.4	4.7	5	6	6.4	6.7	7.1					4.3	4.5	4.7	5.2	210	
215	6.2	6.5	6.7	7	3.8	4.1	4.3	4.6	5.6	5.9	6.3	6.6					3.9	4.2	4.4	4.8	215	
220	5.8	6.1	6.3		3.5	3.7	4	4.2	5.2	5.5	5.8	6.2					3.6	3.9	4.1	4.5	220	
225	5.5	5.7	5.9		3.2	3.4	3.6	3.9	4.8	5.1	5.4	5.7					3.4	3.6	3.8	4.1	225	
230	5.2	5.3	5.5		2.8	3.1	3.3		4.4	4.7	5	5.3					3.1	3.3	3.5	3.8	230	
235	4.9	5	5.1		2.4	2.7	2.9		4	4.3	4.6						2.8	3	3.2	3.4	235	
240	4.6	4.7	4.8			2.3	2.5		3.7	3.9	4.2						2.4	2.7	2.9	3.1	240	
245	4.3	4.4	4.5						3.3	3.5	3.7							2.3	2.5			245
250	4	4.1	4.2						3	3.2	3.4										2.2	250
255	3.7	3.8	3.8						2.7	2.9	3											255
260	3.5	3.5							2.3	2.5	2.6											260

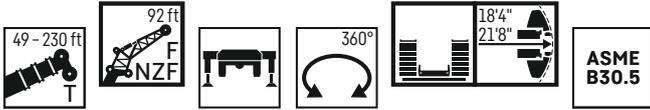
* Adapter - Pièce d'adaptateur

** only possible in TNZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TNZF)

Lifting capacities

Forces de levage

TF/TNZF 92 ft

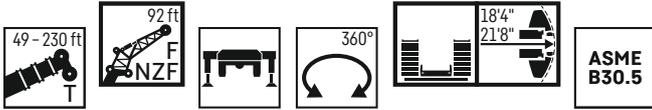


	49 ft + 7'10"				132 ft + 7'10"				149 ft + 7'10"				165 ft + 7'10"				182 ft + 7'10"				194 ft + 7'10"						
	F/NZF 92 ft																										
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°**			
22	33																							22			
24	31.9																							24			
26	30.9																							26			
28	30																							28			
30	29																							30			
32	28.1																							32			
34	27.2																							34			
36	26.4				32.6																			36			
38	25.7	23.3			31.9																			38			
40	24.8	22.6			31.3																			40			
45	23	20.7			29.6				28.2					26.7										45			
50	21.3	19.1			28.2				26.9					25.7					23.1					50			
55	19.6	17.7	15.9		26.8	22.3			25.7					24.8					22.4					55			
60	18.2	16.5	14.8		25.6	21.2			24.7	20.8				23.9					21.8				15.9	60			
65	16.8	15.4	13.9		24.4	20.1			23.6	19.8				23	19.8				21				15.7	65			
70	15.7	14.4	13		23.2	19.1	15.8		22.7	18.9				22.2	18.8				20.3	17.6			15.3	70			
75	14.6	13.4	12.2		22.1	18.2	15.1		21.8	18	15			21.4	18.1				19.6	17			14.7	75			
80	13.7	12.6	11.6	9.9	21	17.4	14.5		20.7	17.2	14.3			20.5	17.4	14.6			18.9	16.3			14.2	13.6	80		
85	12.8	11.9	11	9.6	19.9	16.6	13.9		19.8	16.5	13.8			19.7	16.8	14.1			18.2	15.8	13.5		13.8	13.2	85		
90	12.1	11.2	10.5	9.3	19	15.9	13.4		18.9	15.9	13.3			18.9	16.1	13.6			17.6	15.3	13.1		13.2	12.9	90		
95	11.4	10.8	10.1	8.9	18.1	15.3	12.8	9.9	18.1	15.2	12.8			18.2	15.5	13.2			17	14.7	12.7		12.6	12.5	11.1	95	
100	10.8	10.3	9.7	8.7	17.2	14.6	12.4	9.7	17.3	14.6	12.4	9.6		17.5	14.9	12.8			16.4	14.2	12.3		12.1	12.1	10.9	100	
105	10.3	9.9	9.4	8.5	16.4	14	12	9.5	16.6	14	12	9.4		16.8	14.4	12.4	9.7		15.8	13.8	11.9		11.5	11.6	10.7	105	
110	9.8	9.5	9.1	8.4	15.7	13.4	11.6	9.3	15.9	13.5	11.6	9.3		16.1	14	12	9.5		15.3	13.4	11.6	9.4	11	11.1	10.5	110	
115	9.5	9.1	8.8	8.2	15	12.9	11.2	9.2	15.2	13	11.3	9.1		15.5	13.5	11.6	9.4		14.8	13	11.3	9.2	10.6	10.7	10.3	115	
120	9.1	8.9	8.6	8.2	14.3	12.5	10.9	9	14.6	12.6	10.9	9		15	13	11.3	9.2		14.3	12.6	11.1	9.1	10.1	10.3	10.2	8.7	120
125	8.9	8.6	8.4	8.2	13.7	12	10.6	8.8	14	12.1	10.7	8.8		14.5	12.6	11.1	9.1		13.9	12.2	10.8	9	9.7	9.9	9.9	8.6	125
130	8.6	8.5	8.3	8.2	13.2	11.6	10.4	8.7	13.5	11.8	10.4	8.7		14	12.2	10.8	9		13.4	11.8	10.6	8.9	9.3	9.5	9.6	8.5	130
135	8.4	8.3	8.3		12.7	11.2	10.1	8.6	13	11.4	10.2	8.6		13.5	11.8	10.6	8.8		13	11.5	10.4	8.7	8.9	9.1	9.2	8.4	135
140	8.3	8.3	8.3		12.2	10.9	9.9	8.5	12.5	11	10	8.5		13	11.5	10.4	8.7		12.6	11.2	10.2	8.6	8.5	8.7	8.9	8.3	140
145					11.8	10.6	9.7	8.4	12	10.7	9.8	8.4		12.5	11.2	10.1	8.6		12.3	11	10	8.6	8.1	8.3	8.5	8.3	145
150					11.3	10.3	9.5	8.3	11.6	10.5	9.6	8.3		12.2	10.9	9.9	8.6		11.9	10.7	9.8	8.5	7.6	8	8.1	8.2	150
155					10.9	10	9.3	8.3	11.3	10.2	9.4	8.2		11.8	10.6	9.8	8.5		11.6	10.5	9.6	8.4	7.2	7.6	7.8	8.1	155
160					10.6	9.8	9.1	8.2	10.9	9.9	9.2	8.2		11.5	10.4	9.6	8.4		11.2	10.3	9.5	8.3	6.7	7.2	7.5	7.8	160
165					10.3	9.5	8.9	8.2	10.6	9.7	9	8.1		11.1	10.2	9.4	8.4		10.8	10.1	9.4	8.3	6.3	6.8	7.2	7.5	165
170					10	9.3	8.8	8.2	10.3	9.5	8.9	8.1		10.8	10	9.3	8.3		10.4	9.9	9.2	8.2	5.8	6.4	6.8	7.2	170
175					9.7	9.2	8.7	8.2	10.1	9.3	8.8	8.1		10.6	9.8	9.1	8.3		10	9.7	9.1	8.2	5.4	6	6.4	6.9	175
180					9.5	9	8.6	8.2	9.8	9.2	8.7	8.1		10.3	9.6	9	8.3		9.6	9.5	8.9	8.2	5	5.5	6	6.5	180
185					9.3	8.8	8.5	8.2	9.6	9	8.5	8.1		10.1	9.5	8.9	8.3		9.1	9.2	8.8	8.2	4.6	5.1	5.6	6.2	185
190					9.1	8.7	8.4	8.2	9.4	8.9	8.4	8.1		9.7	9.3	8.8	8.2		8.7	9	8.7	8.1	4.2	4.7	5.2	5.8	190
195					8.9	8.6	8.3		9.2	8.7	8.4	8.1		9.3	9.1	8.7	8.2		8.2	8.6	8.6	8.1	3.8	4.3	4.7	5.4	195
200					8.7	8.5	8.3		9	8.6	8.3	8.1		9	8.9	8.6	8.2		7.8	8.2	8.5	8.1	3.5	3.9	4.3	5	200
205					8.6	8.4	8.3		8.8	8.5	8.2	8.1		8.6	8.7	8.5	8.2		7.4	7.7	8.1	8.1	3	3.5	3.9	4.6	205
210					8.4	8.3	8.3		8.7	8.4	8.2			8.2	8.4	8.4	8.2		7	7.3	7.7	8.1	2.5	3.1	3.5	4.1	210
215					8.3	8.3	8.3		8.5	8.3	8.2			7.8	8	8.2	8.2		6.5	6.9	7.3	7.6		2.6	3.1	3.7	215
220					8.3	8.3			8.4	8.2	8.2			7.4	7.6	7.9			6.2	6.5	6.8	7.1		2.7	3.3	220	
225					5.6				8.3	8.2	8.2			7	7.2	7.4			5.8	6.1	6.4	6.7				2.8	225
230									8.1	8.2	8.2			6.6	6.8	7			5.4	5.7	6	6.3				2.2	230
235									7.9	8				6.2	6.4	6.6			5	5.3	5.6						235
240									5.4	7.2				5.9	6.1	6.2			4.6	4.9	5.2						240
245														5.6	5.7	5.8			4.2	4.5	4.8						245
250														5.2	5.3				3.9	4.1	4.3						250
255														4.6	5				3.7	3.8	3.9						255
260																			3.4	3.5	3.7						260
265																			3.2	3.3							265
270																			3	3							270

Lifting capacities

Forces de levage

TF/TNZF 92 ft



	199 ft + 7'10"*				210 ft + 7'10"*				215 ft + 7'10"*				227 ft + 7'10"*				230 ft + 7'10"*				
	0°	10°	20°	40°	0°	10°	20°	40°**	0°	10°	20°	40°	0°	10°	20°	40°**	0°	10°**	20°**	40°**	
60	18.5				13.1				14.2				11.6				10.9				60
65	18.1				13.1																65
70	17.6				13				14				11.2				10.6				70
75	17.1	15.3			12.6				14				10.8				10.6				75
80	16.7	14.8			12.4				13.2				10.6				10.5				80
85	16.2	14.4			12.3	12.2			12.9	12.6			10.4	10.5			10.2				85
90	15.7	14	12.2		12.1	12			12.7	12.4			10.4	10.4			10	10			90
95	15.3	13.6	11.9		11.7	11.6			12.4	12.1			10.3	10.3			9.9	9.9			95
100	14.8	13.2	11.6		11.3	11.3	10.6		12.2	11.8	10.7		10.2	10.2			9.9	9.9			100
105	14.4	12.8	11.3		10.9	10.9	10.4		12.2	11.5	10.5		10	10	9.9		9.7	9.8			105
110	14	12.5	11		10.5	10.5	10.2		12.1	11.2	10.3		9.7	9.8	9.7		9.5	9.6	9.6		110
115	13.6	12.1	10.8	9	10.1	10.2	10		11.9	11	10.1		9.4	9.5	9.5		9.2	9.3	9.4		115
120	13.3	11.8	10.6	8.9	9.8	9.9	9.9		11.6	10.8	10		9.2	9.2	9.3		9	9.1	9.1		120
125	12.9	11.4	10.4	8.8	9.5	9.5	9.6	8.4	11.2	10.7	9.8	8.5	8.8	8.9	9		8.6	8.8	8.9		125
130	12.5	11.2	10.2	8.7	9.1	9.2	9.3	8.4	10.8	10.5	9.6	8.4	8.5	8.6	8.7	8.2	8.3	8.5	8.6	8.1	130
135	12.1	11	10	8.6	8.7	8.8	8.9	8.3	10.5	10.3	9.5	8.3	8.2	8.3	8.5	8.1	8	8.2	8.3	8	135
140	11.7	10.7	9.8	8.5	8.3	8.5	8.6	8.2	10.1	10	9.4	8.2	7.8	8	8.2	8	7.6	7.9	8.1	8	140
145	11.3	10.5	9.7	8.4	8	8.2	8.3	8.1	9.8	9.8	9.3	8.2	7.4	7.7	7.9	8	7.2	7.7	7.8	7.9	145
150	11	10.3	9.5	8.3	7.5	7.9	8	8.1	9.5	9.5	9.1	8.1	7	7.4	7.6	7.9	6.9	7.3	7.5	7.8	150
155	10.6	10.2	9.4	8.3	7.1	7.5	7.7	7.9	9.2	9.2	9	8.1	6.7	7	7.3	7.7	6.5	7	7.3	7.6	155
160	10.2	10	9.2	8.2	6.7	7.2	7.4	7.7	8.8	8.9	8.8	8	6.3	6.7	7	7.4	6.2	6.6	7	7.3	160
165	9.8	9.7	9.1	8.2	6.3	6.8	7.1	7.4	8.5	8.6	8.6	8	5.9	6.3	6.7	7.1	5.9	6.3	6.7	7.1	165
170	9.4	9.4	9	8.1	6	6.4	6.7	7.1	8.1	8.3	8.4	7.9	5.6	6	6.4	6.9	5.5	6	6.4	6.8	170
175	9	9.1	8.8	8.1	5.6	6	6.4	6.8	7.8	8	8.1	7.9	5.3	5.7	6.1	6.7	5.2	5.6	6	6.6	175
180	8.6	8.8	8.6	8.1	5.2	5.7	6.1	6.5	7.4	7.7	7.8	7.9	4.9	5.3	5.7	6.4	4.9	5.3	5.7	6.3	180
185	8.1	8.5	8.4	8	4.9	5.3	5.7	6.2	7.1	7.4	7.6	7.8	4.6	5	5.4	6.1	4.6	5	5.4	6	185
190	7.6	8.1	8.2	7.9	4.5	4.9	5.3	6	6.7	7.1	7.3	7.6	4.3	4.7	5.1	5.8	4.3	4.6	5	5.7	190
195	7.2	7.7	8	7.9	4.2	4.5	5	5.6	6.3	6.8	7	7.4	4	4.4	4.8	5.4	4	4.3	4.7	5.4	195
200	6.8	7.3	7.7	7.8	3.8	4.2	4.6	5.2	5.9	6.4	6.7	7.1	3.7	4.1	4.4	5.1	3.7	4	4.4	5.1	200
205	6.3	6.9	7.2	7.7	3.5	3.9	4.3	4.9	5.5	6.1	6.4	6.8	3.4	3.8	4.2	4.8	3.4	3.7	4.1	4.7	205
210	5.9	6.4	6.8	7.4	3.1	3.5	3.9	4.5	5.1	5.7	6.1	6.5	3.1	3.5	3.8	4.4	3	3.5	3.8	4.4	210
215	5.5	6	6.4	7	2.7	3.1	3.6	4.1	4.7	5.2	5.7	6.3	2.7	3.2	3.5	4.1	2.6	3.2	3.5	4	215
220	5.1	5.5	6	6.6	2.3	2.8	3.2	3.7	4.4	4.8	5.3	5.9	2.3	2.8	3.2	3.8	2.3	2.8	3.2	3.7	220
225	4.7	5.1	5.5	6.1		2.3	2.8	3.4	4	4.5	4.9	5.5		2.4	2.9	3.4		2.4	2.8	3.4	225
230	4.3	4.7	5.1	5.6			2.4	3	3.7	4.1	4.5	5			2.5	3.1			2.5	3.1	230
235	3.9	4.3	4.7	5.1				2.5	3.3	3.7	4.1	4.6				2.7				2.7	235
240	3.6	4	4.3	4.7					3	3.4	3.7	4.2				2.3				2.3	240
245	3.3	3.6	3.9						2.5	3	3.3	3.7									245
250	3	3.3	3.5							2.6	3	3.3									250
255	2.8	3	3.1								2.6										255
260	2.5	2.7	2.8																		260
265		2.4	2.6																		265
270			2.2																		270

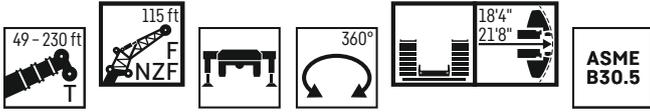
* Adapter - Pièce d'adaptateur

** only possible in TNZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TNZF)

Lifting capacities

Forces de levage

TF/TNZF 115 ft

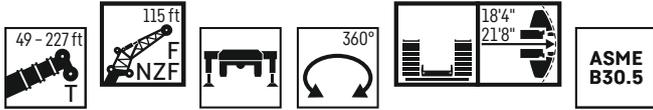


	49 ft + 7'10"				132 ft + 7'10"				149 ft + 7'10"				165 ft + 7'10"				182 ft + 7'10"				194 ft + 7'10"															
	F/NZF 115 ft																																			
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°				
26	25.1																																26			
28	24.3																																28			
30	23.6																																30			
32	22.8																																	32		
34	22.2																																	34		
36	21.5																																	36		
38	20.9																																	38		
40	20.3																																	40		
45	19																																	45		
50	17.6	15.9																																50		
55	16.3	14.7																																55		
60	15.1	13.6																																60		
65	13.8	12.5	11.2																															65		
70	12.8	11.6	10.6																															70		
75	11.9	10.9	10																															75		
80	11.2	10.3	9.5																															80		
85	10.5	9.8	9																															85		
90	9.9	9.2	8.6																															90		
95	9.3	8.8	8.2	7																														95		
100	8.8	8.4	7.8	6.7																														100		
105	8.4	8	7.5	6.5																														105		
110	8	7.6	7.2	6.2																														110		
115	7.6	7.2	6.8	6																														115		
120	7.3	6.9	6.6	5.8																														120		
125	6.9	6.6	6.3	5.7																														125		
130	6.6	6.4	6.1	5.5																														130		
135	6.4	6.2	5.9	5.4																														135		
140	6.1	5.9	5.7	5.3																														140		
145	5.9	5.8	5.6	5.3																															145	
150	5.7	5.6	5.4	5.3																															150	
155	5.5	5.4	5.4																																155	
160	5.4	5.4	5.4																																160	
165	5.4	5.4																																	165	
170																																			170	
175																																			175	
180																																			180	
185																																				185
190																																				190
195																																				195
200																																				200
205																																				205
210																																				210
215																																				215
220																																				220
225																																				225
230																																				230
235																																				235
240																																				240
245																																				245
250																																				250
255																																				255
260																																				260
265																																				265
270																																				270
275																																				275

Lifting capacities

Forces de levage

TF/TNZF 115 ft



	199 ft + 7'10"*				210 ft + 7'10"*				215 ft + 7'10"*				227 ft + 7'10"*				
	F/NZF 115 ft																
	0°	10°	20°	40°	0°	10°	20°**	40°**	0°	10°	20°	40°	0°	10°	20°**	40°**	
60	12.1																60
65	13.6				10.1												65
70	13.2				10				10.4				8.5				70
75	12.8				9.8				10.2				8.6				75
80	12.3				9.8				10.1				8.5				80
85	12	10.5			9.7				10				8.3				85
90	11.6	10.3			9.7				9.9				8.2				90
95	11.2	10			9.6	8.8			9.8	9			8.1				95
100	10.9	9.7			9.4	8.6			9.6	8.8			8	8			100
105	10.6	9.4	8.3		9.1	8.4			9.4	8.6			8	7.9			105
110	10.3	9.2	8.1		8.8	8.2			9.2	8.4			7.8	7.7			110
115	10	9	7.9		8.5	8.1	7.3		9	8.2	7.4		7.6	7.6			115
120	9.8	8.7	7.7		8.1	7.9	7.1		8.8	8	7.2		7.4	7.5	6.8		120
125	9.5	8.5	7.5		7.8	7.7	7		8.6	7.8	7.1		7.1	7.3	6.7		125
130	9.3	8.3	7.4		7.5	7.6	6.8		8.4	7.7	6.9		6.8	7.1	6.5		130
135	9	8.1	7.2	5.8	7.1	7.4	6.7		8.2	7.5	6.8		6.5	6.8	6.4		135
140	8.8	7.9	7.1	5.7	6.8	7.1	6.6		8.1	7.4	6.7		6.2	6.5	6.3		140
145	8.6	7.7	6.9	5.6	6.5	6.8	6.4	5.4	7.9	7.2	6.5	5.4	5.9	6.3	6.2		145
150	8.4	7.5	6.8	5.6	6.1	6.5	6.3	5.4	7.7	7.1	6.4	5.4	5.6	6	6.1	5.2	150
155	8.1	7.3	6.6	5.5	5.8	6.2	6.2	5.3	7.5	6.9	6.3	5.3	5.3	5.7	6	5.1	155
160	7.9	7.2	6.5	5.4	5.4	5.9	6.1	5.2	7.3	6.8	6.2	5.2	4.9	5.4	5.7	5.1	160
165	7.7	7	6.4	5.4	5.1	5.6	5.9	5.2	7	6.7	6.1	5.2	4.6	5.1	5.5	5	165
170	7.5	6.9	6.2	5.3	4.7	5.3	5.6	5.1	6.7	6.5	6	5.1	4.4	4.9	5.3	5	170
175	7.3	6.8	6.1	5.2	4.4	5	5.4	5.1	6.4	6.4	5.9	5.1	4	4.6	5	5	175
180	7.1	6.6	6	5.2	4.1	4.6	5.1	5	6.1	6.2	5.8	5.1	3.7	4.2	4.7	4.9	180
185	6.9	6.5	5.9	5.1	3.8	4.3	4.8	5	5.9	6	5.7	5	3.4	4	4.4	4.9	185
190	6.7	6.4	5.8	5.1	3.4	4	4.5	4.9	5.6	5.8	5.6	5	3	3.7	4.2	4.8	190
195	6.3	6.3	5.7	5.1	2.9	3.6	4.2	4.7	5.2	5.6	5.5	5	2.7	3.3	3.8	4.6	195
200	5.9	6.1	5.7	5	2.5	3.3	3.8	4.5	4.9	5.3	5.4	4.9	2.3	3	3.6	4.4	200
205	5.5	5.9	5.6	5		2.9	3.5	4.3	4.6	5.1	5.4	4.9		2.6	3.3	4.1	205
210	5.1	5.7	5.5	5		2.5	3.1	4	4.3	4.8	5.2	4.9		2.2	2.8	3.8	210
215	4.7	5.3	5.4	5			2.7	3.7	4	4.5	4.9	4.9			2.4	3.5	215
220	4.4	4.9	5.2	5			2.3	3.3	3.6	4.2	4.6	4.9				3.2	220
225	4	4.6	4.9	5				3	3.2	3.9	4.3	4.8				2.8	225
230	3.7	4.2	4.6	4.9				2.5	2.8	3.5	4	4.5				2.4	230
235	3.3	3.8	4.3	4.7					2.4	3.2	3.7	4.3					235
240	3	3.5	3.9	4.5						2.8	3.3	4					240
245	2.6	3.1	3.5	4.2						2.4	2.9	3.7					245
250		2.7	3.2	3.8							2.5	3.3					250
255		2.3	2.8	3.3								2.9					255
260			2.4	2.9								2.4					260
265				2.3													265

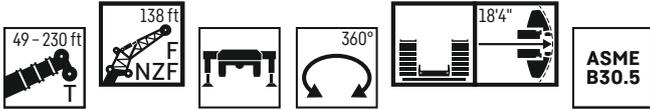
* Adapter - Pièce d'adaptateur

** only possible in TNZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TNZF)

Lifting capacities

Forces de levage

TF/TNZF 138 ft

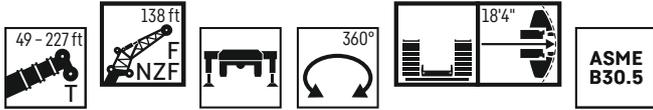


	49 ft + 7'10"				132 ft + 7'10"				149 ft + 7'10"				165 ft + 7'10"				182 ft + 7'10"				194 ft + 7'10"					
	F/NZF 138 ft																									
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°**	20°**	40°**		
28	18.9																								28	
30	18.6																								30	
32	18.2																								32	
34	17.7																								34	
36	17.2																								36	
38	16.7																								38	
40	16.2																								40	
45	15.2				18.4																				45	
50	14.2				17.5				16.5																50	
55	13.2	11.9			16.6				15.8				14.6												55	
60	12.2	10.9			15.9				15.1				13.9							12.5					60	
65	11.2	10.2			15.1				14.4				13.4							12.1					65	
70	10.5	9.6			14.4	11.8			13.8				12.9							11.7			9		70	
75	9.8	9			13.7	11.1			13.2	10.9			12.4							11.2			8.8		75	
80	9.1	8.4	7.7		13.1	10.5			12.6	10.4			11.9							10.8			8.6		80	
85	8.6	7.9	7.2		12.3	10.1			12	9.9			11.4	9.6						10.4			8.4		85	
90	8.1	7.5	6.8		11.6	9.6			11.4	9.5			10.9	9.2						10.1	8.7		8.2		90	
95	7.6	7	6.4		11	9.2	7.7		10.9	9.1			10.4	8.8						9.7	8.3		7.9		95	
100	7.1	6.6	6		10.5	8.8	7.4		10.3	8.7	7.3		10	8.5						9.4	8		7.7	6.8	100	
105	6.7	6.2	5.6		10	8.5	7.1		9.9	8.4	7.1		9.6	8.2	6.9					9	7.8		7.5	6.7	105	
110	6.3	5.8	5.3		9.5	8.1	6.9		9.5	8.1	6.8		9.3	7.9	6.7					8.7	7.5		7.3	6.4	110	
115	6	5.5	4.9	3.9	9.1	7.8	6.6		9.1	7.8	6.6		8.9	7.6	6.4					8.4	7.2	6.2	7.1	6.2	115	
120	5.6	5.1	4.6	3.7	8.7	7.4	6.4		8.7	7.4	6.3		8.6	7.3	6.2					8.1	7	6	6.8	6.1	120	
125	5.3	4.8	4.3	3.5	8.4	7.2	6.1		8.4	7.2	6.1		8.3	7	6					7.9	6.8	5.8	6.6	5.9	125	
130	5	4.6	4.1	3.3	8	6.9	5.9	4.2	8.1	6.9	5.9		8	6.8	5.8					7.6	6.6	5.6	6.3	5.7	130	
135	4.7	4.3	3.9	3.1	7.7	6.6	5.7	4	7.7	6.6	5.7	4	7.6	6.6	5.6					7.3	6.4	5.5	6	5.5	135	
140	4.4	4.1	3.7	2.9	7.3	6.3	5.5	3.9	7.4	6.4	5.5	3.9	7.4	6.3	5.5	3.8				7.1	6.1	5.3	5.7	5.4	140	
145	4.1	3.9	3.5	2.8	7	6.1	5.3	3.8	7.2	6.2	5.3	3.8	7.1	6.1	5.3	3.7				6.8	5.9	5.1	5.4	5.3	145	
150	3.9	3.6	3.3	2.7	6.7	5.9	5.1	3.7	6.9	6	5.1	3.7	6.9	5.9	5.1	3.6				6.6	5.8	5	3.5	5.1	4.5	150
155	3.7	3.4	3.1	2.6	6.5	5.7	5	3.6	6.6	5.8	5	3.6	6.6	5.7	5	3.6				6.4	5.6	4.8	3.4	4.8	4.4	155
160	3.5	3.3	3	2.6	6.2	5.5	4.8	3.5	6.4	5.6	4.8	3.5	6.4	5.5	4.8	3.5				6.2	5.4	4.7	3.4	4.4	4.8	160
165	3.4	3.2	2.9	2.5	6	5.2	4.6	3.4	6.1	5.4	4.7	3.4	6.2	5.4	4.7	3.4				6	5.3	4.6	3.3	4	4.5	165
170	3.3	3.1	2.8	2.5	5.7	5.1	4.5	3.3	5.9	5.2	4.6	3.4	5.9	5.2	4.5	3.3				5.8	5.1	4.5	3.2	3.6	4.3	170
175	3.2	3	2.8	2.5	5.5	4.9	4.4	3.3	5.7	5	4.4	3.3	5.7	5	4.4	3.3				5.6	4.9	4.3	3.2	3.2	4	175
180	3.2	3	2.8		5.4	4.8	4.2	3.2	5.5	4.9	4.3	3.2	5.5	4.9	4.3	3.2				5.4	4.8	4.2	3.1	2.8	3.7	180
185	3.1	3	2.8		5.2	4.6	4.1	3.2	5.3	4.7	4.2	3.2	5.4	4.7	4.2	3.1				5.3	4.6	4.1	3.1	2.4	3.3	185
190					5	4.5	4	3.1	5.1	4.6	4.1	3.2	5.2	4.6	4.1	3.1				5.1	4.5	4	3		2.9	190
195					4.8	4.3	3.9	3.1	4.9	4.4	4	3.1	5	4.4	3.9	3				5	4.4	3.9	3		2.5	195
200					4.6	4.2	3.8	3.1	4.8	4.3	3.8	3.1	4.8	4.3	3.8	3				4.8	4.3	3.8	2.9		2.9	200
205					4.4	4.1	3.7	3	4.6	4.2	3.7	3	4.7	4.2	3.7	3				4.7	4.1	3.7	2.9		2.5	205
210					4.3	3.9	3.6	3	4.5	4	3.6	3	4.5	4.1	3.7	2.9				4.5	4	3.6	2.9			210
215					4.1	3.8	3.5	3	4.3	3.9	3.6	3	4.4	4	3.6	2.9				4.3	3.9	3.5	2.8			215
220					4	3.7	3.4	3	4.2	3.8	3.5	3	4.3	3.9	3.5	2.9				4.2	3.8	3.5	2.8			220
225					3.8	3.6	3.3	3	4	3.7	3.4	3	4.1	3.8	3.4	2.9				4	3.7	3.4	2.8			225
230					3.7	3.5	3.3	3	3.9	3.6	3.3	3	4	3.7	3.3	2.9				3.8	3.6	3.3	2.8			230
235					3.6	3.4	3.2	3	3.8	3.5	3.3	3	3.9	3.6	3.3	2.9				3.6	3.5	3.3	2.8			235
240					3.5	3.3	3.2		3.7	3.4	3.2	3	3.8	3.5	3.2	2.9				3.3	3.4	3.2	2.8			240
245					3.4	3.2	3.1		3.6	3.3	3.2	3	3.7	3.4	3.2	2.9				3	3.3	3.1	2.8			245
250					3.3	3.2	3.1		3.5	3.3	3.1	3	3.6	3.3	3.1	2.9				2.7	3.1	3.1	2.8			250
255					3.2	3.1	3.1		3.4	3.2	3.1		3.5	3.2	3.1	2.9				2.2	2.9	3	2.8			255
260					3.2	3.1	3.1		3.3	3.1	3.1		3.1	3.2	3	2.9				2.5	2.9	2.8				260
265					3.1	3.1			3.2	3.1	3.1		2.8	3.1	3						2.6	2.8				265
270									3.1	3.1	3.1		2.6	2.8	3								2.7			270
275									3.1	3.1	3.1		2.3	2.5	2.9								2.3			275
280									3	3.1				2.3	2.5											280
285										2.8																285

Lifting capacities

Forces de levage

TF/TNZF 138 ft



	199 ft + 7'10"*				210 ft + 7'10"*				215 ft + 7'10"*				227 ft + 7'10"*				
	F/NZF 138 ft																
	0°	10°	20°	40°	0°	10°**	20°**	40°**	0°	10°	20°	40°	0°	10°**	20°**	40°**	
70	10.1				7.6				7.9								70
75	9.8				7.6				7.9				5.3				75
80	9.5				7.6				7.8				5.6				80
85	9.3				7.5				7.7				5.8				85
90	9				7.3				7.5				6				90
95	8.7	7.7			7.2				7.3				6.1				95
100	8.5	7.4			7	6.3			7.2	6.4			6.1				100
105	8.2	7.2			6.8	6.1			6.9	6.3			6				105
110	7.9	7			6.6	6			6.8	6.1			5.9	5.5			110
115	7.7	6.8			6.3	5.8			6.6	5.9			5.6	5.4			115
120	7.5	6.5	5.6		6.1	5.7			6.4	5.7			5.4	5.3			120
125	7.2	6.3	5.5		5.8	5.5	4.8		6.2	5.6	4.9		5.1	5.2			125
130	7	6.2	5.3		5.5	5.3	4.7		6.1	5.4	4.8		4.9	5			130
135	6.8	6	5.2		5.3	5.2	4.6		5.9	5.3	4.7		4.6	4.9	4.3		135
140	6.6	5.8	5		5.1	5.1	4.5		5.8	5.2	4.5		4.3	4.7	4.2		140
145	6.4	5.6	4.9		4.7	4.9	4.4		5.6	5	4.4		4	4.5	4.1		145
150	6.2	5.5	4.8		4.5	4.8	4.3		5.5	4.9	4.3		3.7	4.3	4		150
155	6	5.3	4.6	3.2	4.1	4.6	4.2		5.3	4.8	4.2		3.4	4.1	3.9		155
160	5.8	5.2	4.5	3.2	3.8	4.3	4.1	2.9	5.2	4.6	4.1	2.9	3	3.8	3.8		160
165	5.7	5	4.4	3.1	3.4	4.1	4	2.8	5.1	4.5	4	2.9	2.7	3.5	3.7		165
170	5.5	4.9	4.3	3	3	3.8	3.9	2.8	4.9	4.4	3.9	2.8	2.4	3.2	3.6	2.6	170
175	5.3	4.7	4.2	3	2.6	3.5	3.8	2.8	4.7	4.3	3.8	2.8		2.9	3.4	2.6	175
180	5.2	4.6	4.1	3	2.2	3.1	3.6	2.7	4.5	4.2	3.8	2.8		2.5	3.2	2.6	180
185	5	4.5	4	2.9													185
190	4.9	4.4	3.9	2.9		2.8	3.3	2.7	4.3	4.1	3.7	2.7			2.9	2.6	190
195	4.8	4.3	3.8	2.9		2.4	3.1	2.7	4	4	3.6	2.7			2.6	2.6	195
200	4.6	4.1	3.7	2.8			2.8	2.7	3.8	3.9	3.5	2.7			2.3	2.5	200
205	4.4	4	3.6	2.8			2.4	2.6	3.5	3.7	3.5	2.7				2.5	205
210	4.3	3.9	3.5	2.8				2.6	3.2	3.6	3.4	2.7				2.5	210
215	3.9	3.8	3.4	2.8				2.5	2.9	3.4	3.3	2.6				2.4	215
220	3.6	3.7	3.4	2.8				2.3	2.6	3.2	3.2	2.6				2.2	220
225	3.3	3.6	3.3	2.8					2.9	3.2	2.6						225
230	2.9	3.4	3.2	2.8					2.5	3	2.6						230
235	2.5	3.1	3.1	2.8					2.2	2.8	2.6						235
240		2.8	3	2.8						2.4	2.6						240
245		2.4	2.8	2.8							2.6						245
250			2.5	2.8							2.5						250
255			2.2	2.7							2.2						255
260				2.5													260
265				2.2													265

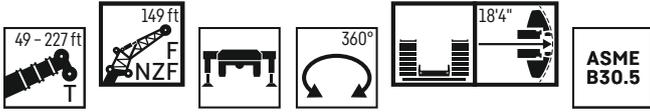
* Adapter - Pièce d'adaptateur

** only possible in TNZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TNZF)

Lifting capacities

Forces de levage

TF/TNZF 149 ft

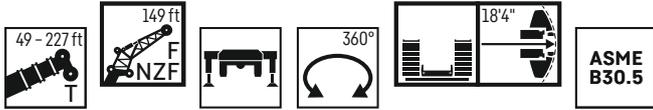


	49 ft + 7'10"				132 ft + 7'10"				149 ft + 7'10"				165 ft + 7'10"				182 ft + 7'10"			194 ft + 7'10"			
	F/NZF 149 ft																						
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	0°	10°**	20°**	
30	15.5																						30
32	15.3																						32
34	15																						34
36	14.8																						36
38	14.5																						38
40	14.2																						40
45	13.5																						45
50	12.5				15.4																		50
55	11.7				14.7				13.9														55
60	10.9	10			14				13.3				12.2										60
65	10.2	9.3			13.3				12.6				11.6					10.4					65
70	9.5	8.6			12.6				12				11.2				10.1						70
75	8.9	8			12	9.9			11.5				10.7				9.7				7.4		75
80	8.3	7.4			11.4	9.5			11	9.2			10.3				9.3				7.3		80
85	7.7	6.9	6.1		10.9	9			10.5	8.8			9.9				9				7.1		85
90	7.2	6.4	5.7		10.4	8.6			10	8.5			9.5	8			8.7				6.9		90
95	6.6	6	5.3		9.8	8.2			9.6	8.1			9.1	7.7			8.4	7.1			6.7		95
100	6.2	5.6	4.9		9.4	7.8	6.5		9.2	7.7			8.8	7.4			8.1	6.9			6.6		100
105	5.7	5.2	4.6		8.9	7.5	6.2		8.8	7.4	6.1		8.4	7.1			7.8	6.6			6.3	5.4	105
110	5.3	4.8	4.2		8.5	7.1	5.9		8.5	7.1	5.9		8.1	6.8			7.5	6.4			6.2	5.3	110
115	4.9	4.5	4		8.1	6.8	5.7		8.1	6.8	5.7		7.7	6.6	5.5		7.2	6.2			6	5.1	115
120	4.5	4.1	3.6		7.7	6.5	5.5		7.7	6.5	5.4		7.5	6.3	5.3		7	5.9	5		5.8	4.9	120
125	4.2	3.8	3.4	2.6	7.4	6.2	5.2		7.4	6.2	5.2		7.2	6.1	5.1		6.7	5.7	4.8		5.6	4.8	125
130	3.9	3.5	3.1	2.4	7	6	5		7.1	6	5		6.9	5.9	4.9		6.5	5.5	4.6		5.4	4.6	130
135	3.7	3.3	2.9	2.3	6.7	5.7	4.8		6.8	5.8	4.8		6.6	5.7	4.7		6.2	5.3	4.4		5.1	4.5	135
140	3.4	3	2.7		6.4	5.5	4.6	2.8	6.5	5.5	4.7		6.3	5.5	4.6		6	5.1	4.3		4.8	4.3	140
145	3.1	2.8	2.5		6.2	5.3	4.5	2.6	6.2	5.3	4.5	2.6	6.1	5.3	4.4		5.7	5	4.1		4.5	4.1	145
150	2.9	2.6	2.4		5.9	5	4.3	2.5	6	5.1	4.3	2.5	5.8	5.1	4.2	2.4	5.5	4.8	4		4.2	4	150
155	2.7	2.4	2.2		5.6	4.8	4.1	2.4	5.7	4.9	4.1	2.4	5.6	4.9	4	2.3	5.3	4.6	3.8		3.8	3.9	155
160	2.5	2.3			5.4	4.6	3.9	2.3	5.5	4.7	3.9	2.3	5.4	4.7	3.9	2.3	5.1	4.5	3.7		3.5	3.7	160
165	2.5				5.1	4.5	3.7	2.2	5.2	4.5	3.8	2.3	5.2	4.5	3.7		4.9	4.3	3.5		3.1	3.6	165
170	2.5				4.9	4.3	3.5		5	4.4	3.6		5	4.3	3.5		4.8	4.1	3.4		2.7	3.3	170
175	2.5				4.7	4.1	3.4		4.8	4.2	3.4		4.8	4.2	3.4		4.6	4	3.3		2.3	3	175
180	2.5				4.5	3.9	3.2		4.7	4	3.3		4.6	4.1	3.3		4.5	3.9	3.1			2.7	180
185	2.3				4.3	3.8	3.1		4.5	3.9	3.2		4.4	3.9	3.2		4.3	3.7	3			2.4	185
190	2.2				4.2	3.6	2.9		4.3	3.7	3.1		4.3	3.7	3.1		4.1	3.6	2.9				190
195	2.2				4	3.4	2.8		4.1	3.6	2.9		4.1	3.6	3		4	3.4	2.8				195
200	2.2				3.8	3.3	2.7		3.9	3.5	2.8		4	3.5	2.8		3.8	3.3	2.7				200
205					3.7	3.2	2.6		3.8	3.3	2.7		3.8	3.3	2.7		3.7	3.2	2.6				205
210					3.5	3	2.5		3.6	3.2	2.6		3.7	3.2	2.6		3.6	3	2.5				210
215					3.3	2.9	2.4		3.5	3	2.5		3.5	3.1	2.4		3.4	2.9	2.4				215
220					3.2	2.8	2.3		3.4	2.9	2.4		3.4	2.9	2.4		3.3	2.8	2.3				220
225					3.1	2.7	2.2		3.2	2.8	2.3		3.3	2.8	2.3		3.2	2.7	2.2				225
230					2.9	2.5			3.1	2.7	2.2		3.1	2.7			2.9	2.6					230
235					2.8	2.5			3	2.6			3	2.6			2.7	2.5					235
240					2.7	2.4			2.9	2.4			2.9	2.4			2.5	2.4					240
245					2.6	2.3			2.7	2.3			2.8	2.3			2.2	2.2					245
250					2.5	2.2			2.6	2.3			2.6	2.3									250
255					2.4				2.5				2.5										255
260					2.4				2.4				2.4										260
265					2.3				2.3				2.3										265
270					2.2				2.2				2.2										270

Lifting capacities

Forces de levage

TF/TNZF 149 ft



	199 ft + 7'10"*			210 ft + 7'10"*			215 ft + 7'10"*			227 ft + 7'10"*			
	F/NZF 149 ft												
	0°	10°	20°	0°	10°**	20°**	0°	10°	20°	0°	10°**	20°**	
70	8.7												70
75	8.4												75
80	8.2			6.1			6.4			3.3			80
85	7.9			6.2			6.4			3.4			85
90	7.6			6.1			6.3			3.6			90
95	7.4			6			6.2			3.7			95
100	7.2			5.9			6			3.9			100
105	6.9	6		5.8			5.9			4.1			105
110	6.7	5.8		5.6	4.7		5.8	4.8		4.3			110
115	6.5	5.6		5.5	4.6		5.6	4.7		4.4			115
120	6.2	5.4		5.3	4.4		5.4	4.6		4.4	3.9		120
125	6	5.2		5.1	4.3		5.3	4.4		4.1	3.8		125
130	5.8	5	4.1	4.8	4.2		5.1	4.3		3.9	3.7		130
135	5.6	4.9	3.9	4.5	4.1		5	4.2		3.6	3.6		135
140	5.4	4.7	3.8	4.2	4	3.2	4.8	4.1	3.3	3.4	3.5		140
145	5.3	4.6	3.7	3.9	3.8	3.1	4.7	3.9	3.2	3.1	3.4	2.7	145
150	5.1	4.4	3.5	3.6	3.7	3	4.5	3.7	3	2.8	3.2	2.7	150
155	4.9	4.3	3.4	3.3	3.6	2.9	4.4	3.6	2.9	2.6	3.1	2.6	155
160	4.8	4.1	3.3	3	3.5	2.8	4.3	3.5	2.9	2.3	2.9	2.5	160
165	4.6	4	3.2	2.7	3.2	2.7	4.1	3.4	2.7		2.7	2.4	165
170	4.4	3.8	3.1	2.4	3	2.7	4	3.3	2.6		2.4	2.3	170
175	4.3	3.7	3		2.7	2.6	3.8	3.2	2.6			2.3	175
180	4.1	3.5	2.9		2.4	2.5	3.6	3.1	2.5				180
185	4	3.4	2.8			2.4	3.5	3	2.4				185
190	3.8	3.3	2.7			2.2	3.3	2.9	2.3				190
195	3.7	3.2	2.5				3.1	2.7	2.2				195
200	3.6	3.1	2.4				2.8	2.6					200
205	3.5	2.9	2.3				2.6	2.5					205
210	3.4	2.8	2.3				2.3	2.4					210
215	3.2	2.7						2.3					215
220	2.9	2.6											220
225	2.5	2.5											225
230		2.4											230

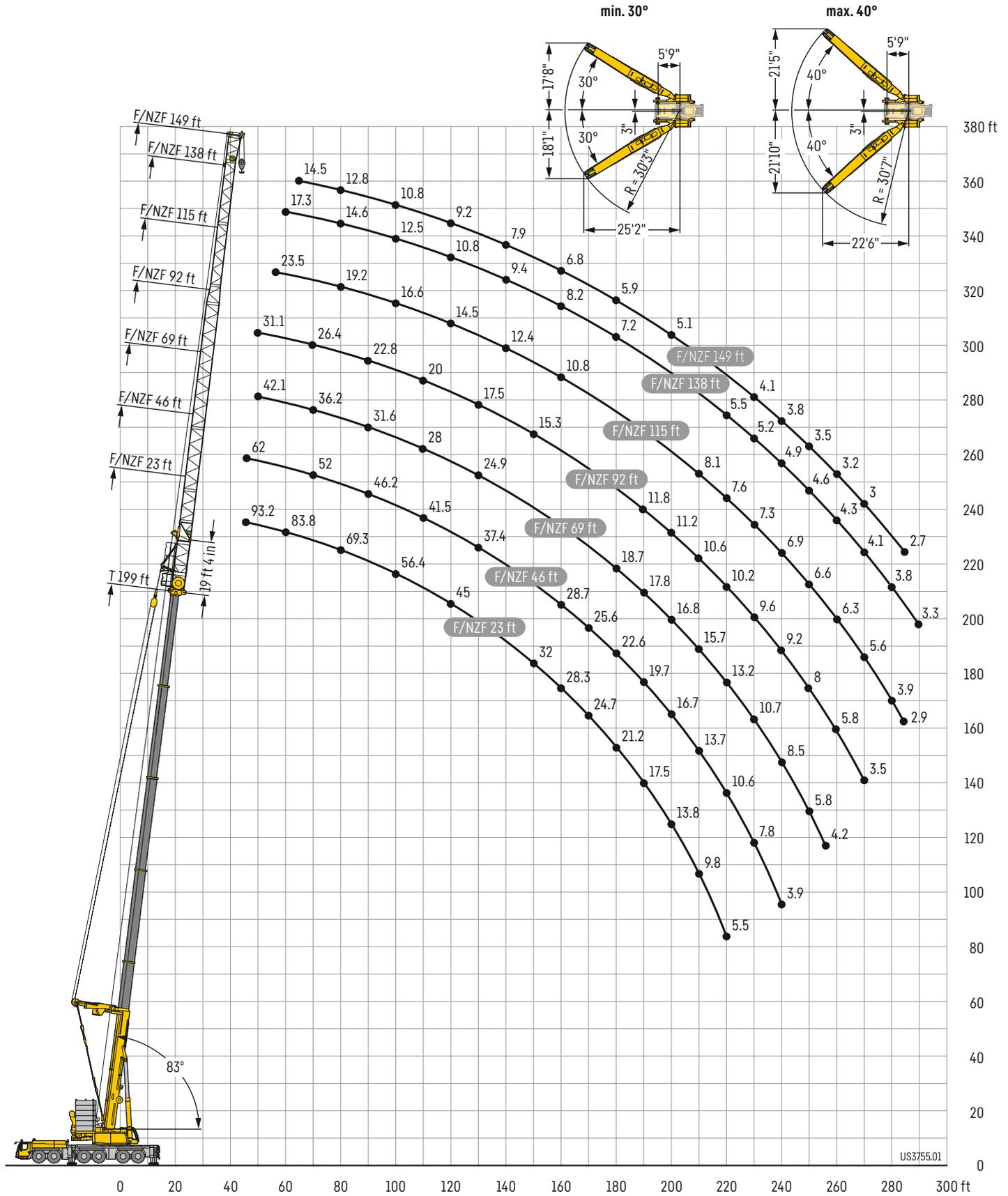
* Adapter - Pièce d'adaptateur

** only possible in TNZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TNZF)

Lifting heights

Hauteurs de levage

TYVEF/TYVENZF



Angle of the Y-suspension between 30° and 40° depending on the extension condition of the individual telescopic sections
 Angle du haubanage Y entre 30° et 40°, en fonction de l'état de sortie des différents éléments télescopiques

Lifting capacities Forces de levage

TYVEF/TYVENZF 23 ft

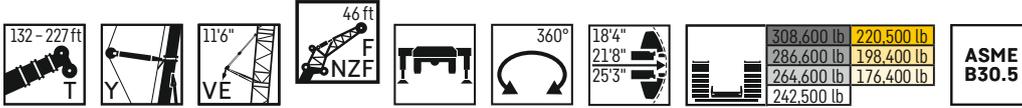


Height (ft)	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*				182 ft + 19 ft 4 in*				194 ft + 19 ft 4 in*						
	F/NZF 23 ft																						
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°			
26	122.4																				26		
28	120.3																					28	
30	118.4	95.3			119.1																	30	
32	116.1	93.5			117.4																	32	
34	113.7	92	75.9		115.2	93.2				112.6												34	
36	111.3	90.4	75.1		113.3	91.8	76.5			112.8												36	
38	109.3	89.1	74		111.2	90.6	75.6			111.2	90.8			105.6								38	
40	107.1	87.6	73	56.3	109.2	89.3	74.7			109.2	89.5			105.2						99.1		40	
45	102	84.2	70.6	55.4	104.3	86.2	72.4	56	104.9	86.6	73.2			101.8	85.7	73.5			95.5	83.9		45	
50	97.1	80.6	68.3	54.5	100.2	83.3	70.2	55.3	101	83.9	71.1	55.5		96.9	83.2	71.7	55.8		91.2	81.5	70.7	50	
55	93	77.6	66.3	53.5	96	80.4	68.4	54.3	97.1	81.4	69.2	54.6		93.7	81	69.8	55		86.9	79.5	69	54.4	55
60	89.1	74.9	64.5	52.7	92.3	77.7	66.7	53.5	93.6	78.9	67.5	53.9		90.6	78.8	68.1	54.3		83	77.3	67.4	53.8	60
65	85.6	72.3	62.8	52.1	88.9	75.3	64.7	52.9	90.1	76.7	65.9	53.3		87.2	76.7	66.6	53.7		79.5	75.4	65.9	53.2	65
70	82.1	70	61.3	51.4	85.6	72.8	63.2	52.3	86.1	74.5	64.3	52.7		83	74.9	65.2	53.1		75.8	73.7	64.6	52.6	70
75	79	67.9	59.8	50.9	82.6	70.7	61.7	51.7	82.6	72.4	62.8	52.1		78.5	73	63.8	52.6		72.5	71.1	63.3	52.1	75
80	75.9	65.8	58.4	50.4	79.4	68.6	60.4	51.2	79.2	70.4	61.5	51.6		73.8	70.5	62.5	52.1		69.5	68.1	62.1	51.6	80
85	72.9	63.8	57.2	50	75.4	66.6	59.1	50.7	75.2	68.6	60.2	51.1		69.7	68.3	61.4	51.6		66.6	65.5	61	51.2	85
90	70.4	61.9	56	49.7	70.8	64.9	57.9	50.4	70.9	66.7	59.1	50.7		66.6	65.3	60.2	51.2		63.8	62.7	59.2	50.7	90
95	68.1	60.3	54.9	49.4	66.4	63.2	56.9	50	66.8	64.4	58	50.4		63.2	62.7	59.2	50.8		61	60.4	58.6	50.4	95
100	64.9	58.8	54	49.2	62.3	61.6	55.8	49.8	63	62.8	57	50.1		59.8	60.2	58.1	50.5		57.5	57.9	57	50	100
105	60.9	57.4	53	49.1	58.7	59.2	54.8	49.5	59.6	59.9	56	49.8		56.3	56.9	56.8	50.2		54.4	54.8	54.8	49.8	105
110	57	56.1	52.3	49.1	55	55.9	54	49.4	56.2	56.8	54.7	49.6		53.2	53.8	54.2	50		51.4	51.9	52.3	49.4	110
115	53.1	53.9	51.5	49.1	51.9	52.6	52.7	49.3	53.3	53.7	53.6	49.4		50.3	50.9	51.4	49.7		48.6	49.1	49.5	48.7	115
120	49.5	50.2	50.6	49.1	48.8	49.4	49.9	49	50.3	50.9	51.3	49.2		47.7	48.2	48.6	49.1		45.9	46.5	46.9	47.5	120
125	46	46.7	47.3	47.7	45.6	46.4	46.8	47.4	47.6	48.1	48.6	48.7		45.2	45.6	46	46.7		43.5	43.9	44.4	45	125
130	42.4	43.2	43.8	44.4	42.4	43.2	43.8	44.3	45	45.5	46	46.6		42.7	43.1	43.5	44.3		41.1	41.5	42	42.7	130
135	38.9	39.7	40.3		39.5	40.2	40.6	41.3	42.4	43	43.4	44.1		40.3	40.8	41.2	41.9		38.9	39.3	39.8	40.5	135
140	35.4	36.3	36.9		36.5	37.3	37.7	38.3	39.9	40.5	40.9	41.5		38.1	38.5	39	39.7		36.8	37.2	37.7	38.3	140
145	31.7	32.7	33.3		33.6	34.3	34.8		37.4	37.9	38.4	38.9		35.9	36.4	36.8	37.5		34.7	35.2	35.6	36.3	145
150	27.8	28.7	29.3		30.7	31.5	32	35.4	34.8	35.4	35.8	36.3		33.8	34.3	34.7	35.4		32.7	33.2	33.7	34.2	150
155	23.1	24.2	24.8		27.7	28.5	29		32.4	33	33.5	33.9		31.7	32.3	32.7	33.2		30.8	31.3	31.7	32.3	155
160	17.6	18.7			24.6	25.4	26		29.9	30.5	31			29.7	30.2	30.5	31		29	29.5	29.8	30.5	160
165	9.9	10.8			21.2	22.1	22.6		27.5	28.1	28.5			27.4	28.1	28.5			27.2	27.7	28.1	28.5	165
170					17.4	18.3	18.8		25	25.6	26			25.4	25.9	26.3			25.4	25.9	26.3	26.7	170
175					12.8	13.8			22.3	22.9	23.4			23.2	23.8	24.2			23.4	24	24.4	24.7	175
180					7.6	8.4			19.4	20.2	20.5			21.1	21.7	22.1			21.6	22.1	22.5		180
185									16.2	17	17.4			18.9	19.5	19.9			19.7	20.2	20.6		185
190									12.5	13.2	13.6			16.6	17.2	17.7			17.8	18.3	18.6		190
195									8.4	9				14.1	14.7	15.2			15.8	16.3	16.7		195
200														11.5	12.1	12.3			13.7	14.2	14.6		200
205														8.8	9.4	9.5			11.5	12	12.4		205
210														5.5	6.2				9.5	10	10.2		210
215																			7.2	7.7	7.9		215
220																			4.1	4.7			220

Height (ft)	199 ft + 19 ft 4 in*				210 ft + 19 ft 4 in*				215 ft + 19 ft 4 in*				221 ft + 19 ft 4 in*				227 ft + 19 ft 4 in*				230 ft + 19 ft 4 in*					
	F/NZF 23 ft																									
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°**	40°**		
45	93.2				85.4				82.2					79.5				74.6						45		
50	89.8	81.5			81.5	78.8			80.2	77.5				75.8	73.1			72.8	70.1			71.3	68.5		50	
55	86.4	79.5	69		78.1	75.4	68.9	54.7	77	74.8	68.8			72.4	69.7	67.7		70.1	67.5	65.3		68.5	65.9	63.7	55	
60	83.8	77.5	67.6	54	74.7	72.5	67.4	54.1	74	71.7	67.2	54		69.1	66.7	64.9	54.7	67.2	64.8	63	54.7	65.8	63.4	61.4	54.6	60
65	81.2	75.8	66	53.5	71.5	69.5	66.1	53.5	70.7	68.6	66	53.5		65.9	63.9	62.3	53.9	64.4	62.4	60.7	54.1	63.1	61	59.2	54	65
70	78	74	64.8	52.9	68.5	66.7	64.6	53	67.7	66.1	64.4	53		63.1	61.4	59.6	53.4	61.9	60	58.5	53.5	60.5	58.7	57.1	53.5	70
75	73.4	72.4	63.5	52.4	65.6	64.1	62.7	52.5	65.2	63.4	62.2	52.5		60.5	58.8	57.4	52.8	59.3	57.7	56.3	53	58.2	56.5	55.2	52.8	75
80	69.3	69.5	62.3	52	62.9	61.6	60.5	52	62.5	61.1	60	52		57.8	56.3	55	52.3	57	55.6	54.3	52.3	55.9	54.5	53.3	51.6	80
85	66.4	66.4	61.3	51.5	60.5	59.1	58.2	51.6	60.1	58.8	57.8	51.6		55.5	54	53	51.2	54.9	52.4	51	53.8	52.5	51.4	50	85	
90	63.5	62.8	60	51.1	58.2	57	56.1	51.1	57.7	56.6	55.7	51.1		53.2	51.8	50.9	49.9	52.8	51.5	50.5	49.4	51.9	50.6	49.4	48.3	90
95	59.8	60	58.5	50.8	56	54.8	54	50.6	55.5	54.6	53.8	50.8		50.9	50	49	48.1	50.8	49.6	48.8	47.8	50	48.8	47.8	46.8	95
100	56.4	56.2	56.6	50.5	53.8	52.9	52.1	49.9	52.4	51.7	49.2	49		49	47.9	47.2	46.3	48.9	47.9	47.1	46.2	47.9	47	46.3	45.2	100
105	53.3	53.8	54.3	50.2	51.5	50.9	50.3	49.1	49.5	49.7	49.7	48.6		47.1	46.1	45.3	44.7	47.1	46.1	45.5	44.7	46.3	45.3	44.6	43.9	105
110	50.2	50.8	51.2	49.7	48.7	48.9	48.5	47.8	46.5	47.2	47.7	47.3		45	44.4	43.7	43.1	45.1	44.5	43.9	43.3	44.5	43.7	43	42.5	110
115	47.6	48.1	48.6	49.2	46.1	46.6	46.8	46.4	44	44.4	45	45.8		42.7	42.7	42.1	41.5	42.9	43	42.4	41.9	42.3	42.1	41.7	41.1	115
120	45	45.5	46	46.6	43.6	44.1	44.5	44.9	41.4	42.1	42.5	43.3		40.4	40.7	40.6	40.1	40.6	41.3	41	40.6	40.2	40.5	40.3	39.8	120
125	42.5	43	43.3	44.2	41.2	41.8	42.1	42.8	39.1	39.7	40.1	40.9		38.2	38.6	38.8	38.6	38.4	39.1	39.4	39.2	38	38.5	38.9	38.5	125
130	40.1																									

Lifting capacities Forces de levage

TYVEF/TYVENZF 46 ft



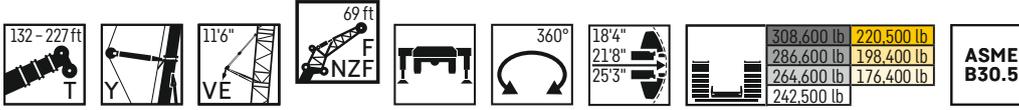
	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*				182 ft + 19 ft 4 in*				194 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
30	72																				30
32	70.3																				32
34	68.8				69.6																34
36	67.3				68.1							69.7									36
38	65.8	53.3			66.9							68.4									38
40	64.4	52.5			65.5							66.8									40
45	61.1	50.3	41.2		62.6	51				64	51.6										45
50	58.3	48.1	39.8		59.7	49.2	40.5			61.2	50.1										50
55	55.8	46	38.5		57	47.4	39.2			58.7	48.4	40.1									55
60	53.2	44.1	37.3	28.7	54.7	45.6	38.1	29		56.3	46.9	38.9									60
65	51.1	42.5	36.2	28.2	52.6	43.9	36.9	28.5		54.1	45.5	37.9	28.9								65
70	48.9	40.9	35.1	27.7	50.6	42.2	35.9	28.1		52.1	44.4	36.9	28.4								70
75	46.9	39.5	34.1	27.3	48.8	40.9	35	27.6		50.4	42.4	35.9	28								75
80	44.9	38.1	33.2	26.9	47	39.5	34.1	27.2		48.7	41	35	27.7								80
85	43.1	36.9	32.4	26.5	45.3	38.3	33.2	26.9		47	39.7	34.1	27.3								85
90	41.5	35.8	31.6	26.2	43.6	37.2	32.5	26.5		45.5	38.6	33.4	26.9								90
95	39.8	34.7	30.9	25.9	42.1	36.1	31.7	26.2		44.2	37.5	32.7	26.6								95
100	38.3	33.7	30.2	25.6	40.6	35	31	25.9		42.7	36.5	32	26.3								100
105	37	32.7	29.5	25.4	39.1	34.2	30.4	25.7		41.4	35.5	31.3	26.1								105
110	35.8	31.9	28.9	25.2	37.7	33.2	29.8	25.5		40	34.6	30.7	25.8								110
115	34.6	31.1	28.4	25	36.6	32.4	29.2	25.3		38.6	33.8	30.1	25.6								115
120	33.5	30.3	27.8	24.9	35.5	31.6	28.7	25.1		37.4	32.9	29.6	25.4								120
125	32.5	29.6	27.3	24.7	34.3	30.9	28.2	25		36.3	32.2	29	25.2								125
130	31.5	28.9	26.9	24.6	33.4	30.1	27.7	24.8		35.3	31.5	28.5	25								130
135	30.7	28.3	26.5	24.6	32.5	29.5	27.2	24.7		34.3	30.8	28.1	24.9								135
140	29.9	27.7	26.2	24.6	31.6	28.9	26.8	24.6		33.4	30.1	27.6	24.8								140
145	29.1	27.1	25.8	24.6	30.8	28.3	26.4	24.6		32.6	29.5	27.1	24.7								145
150	28.3	26.5	25.5	24.6	30.1	27.8	26	24.6		31.7	28.9	26.8	24.7								150
155	27.6	26.2	25.3	24.6	29.3	27.2	25.8	24.6		30.9	28.4	26.5	24.6								155
160	27	25.9	25.1	24.6	28.6	26.8	25.5	24.6		30.2	27.8	26.1	24.6								160
165	26.1	25.5	25	24.6	27.9	26.4	25.3	24.6		29.7	27.4	25.9	24.6								165
170	25.4	25	25	24.6	27.1	26	25.2	24.6		29.1	27	25.7	24.6								170
175	24.8	24.4	25	24.6	26.4	25.4	25.2	24.6		28.2	26.6	25.7	24.6								175
180	24.2	24.1	22.1	24.6	25.8	24.8	24.8	24.5		27.6	26.2	25.2	24.6								180
185	23.6	23.5	22.1	24.6	25.2	24.2	24.2	24.5		27	25.5	25	24.5								185
190	23	23.4	22.1	24.6	24.6	23.6	23.6	24.1		26.4	24.9	24.1	24.5								190
195	22.4	23.3	22.1	24.6	24	23	23	24.1		25.8	24.3	24.1	24.5								195
200	21.8	23.2	22.1	24.6	23.4	22.4	22.4	24.1		25.2	23.7	23.7	24.1								200
205	21.2	23.1	22.1	24.6	22.8	21.8	21.8	24.1		24.6	23.1	23.1	24.1								205
210	20.6	23	22.1	24.6	22.2	21.2	21.2	24.1		24	22.5	22.5	24.1								210
215	20	22.9	22.1	24.6	21.6	20.6	20.6	24.1		23.4	21.9	21.9	24.1								215
220	19.4	22.8	22.1	24.6	21	20	20	24.1		22.8	21.3	21.3	24.1								220
225	18.8	22.7	22.1	24.6	20.4	19.4	19.4	24.1		22.2	20.7	20.7	24.1								225
230	18.2	22.6	22.1	24.6	19.8	18.8	18.8	24.1		21.6	20.1	20.1	24.1								230
235	17.6	22.5	22.1	24.6	19.2	18.2	18.2	24.1		21	19.5	19.5	24.1								235
240	17	22.4	22.1	24.6	18.6	17.6	17.6	24.1		20.4	18.9	18.9	24.1								240
245	16.4	22.3	22.1	24.6	18	17	17	24.1		19.8	18.3	18.3	24.1								245
250	15.8	22.2	22.1	24.6	17.4	16.4	16.4	24.1		19.2	17.7	17.7	24.1								250

	199 ft + 19 ft 4 in*				210 ft + 19 ft 4 in*				215 ft + 19 ft 4 in*				221 ft + 19 ft 4 in*				227 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°**	20°**	40°**	0°	10°	20°	40°	
45	62				60.3																45
50	59.8	49			58.1							57.4									50
55	57.8	47.7			56.1	47						55.6									55
60	55.8	46.5	39.1		54.4	45.7	38.9					53.7	45.3								60
65	53.9	45.2	38.1		52.7	44.5	38					52.2	44.2	37.7							65
70	52	43.9	37.1	28.4	51	43.3	37					50.6	43	36.8							70
75	50.4	42.9	36.2	28	49.4	42.3	36.2	27.9				49.1	42	35.9	27.8						75
80	49	41.9	35.4	27.7	47.9	41.3	35.4	27.6				47.8	41.1	35.2	27.5						80
85	47.6	40.8	34.7	27.3	46.4	40.4	34.5	27.3				46.4	40.2	34.4	27.2						85
90	46.2	39.7	33.9	27	45.4	39.4	33.9	26.9				45.1	39.3	33.7	26.9						90
95	45	38.7	33.2	26.7	44.2	38.5	33.1	26.7				43.9	38.3	33.1	26.6						95
100	43.7	37.7	32.6	26.4	43.1	37.6	32.5	26.4				42.9	37.4	32.4	26.3						100
105	42.6	36.7	32	26.2	42	36.7	32	26.1				41.8	36.6	31.9	26.1						105
110	41.5	35.8	31.4	26	41	35.8	31.4	25.9				40.8	35.8	31.3	25.9						110
115	40.4	35	30.8	25.7	40	35.1	30.8	25.7				39.8	35	30.8	25.7						115
120	39.4	34.1	30.3	25.5	39	34.2	30.3	25.5				38.8	34.2	30.3	25.5						120
125	38.3	33.5	29.8	25.3	37.9	33.4	29.8	25.3				37.7	33.5	29.8	25.3						125
130	37.4	32.7	29.3	25.1	36.8	32.8	29.3	25.1				36.4	32.8	29.3	25.1						130
135	36.2	32.1	28.9	24.9	35.6	32.1	28.9	24.9				34.5	32.2	28.9	24.9						135
140	35.1	31.5	28.5	24.8	34.2	31.5	28.5	24.8				32.7	31.6	28.5	24.8						140
145	33.7	30.8	28.1	24.7	32.7	30.9	28.1	24.6				31	31	28.1	24.6						145
150	32	30.3	27.7	24.6	31	30.3	27.7	24.5				29.1	29.8	27.8	24.6						150
155	30.4	29.6	27.3	24.5	29.4	29.6	27.3	24.4				27.6	28.5	27.4	24.5						155
160	28.7	29.1	26.9	24.4	27.8	28.7	27	24.4				26	26.9	26.9	24.4						160
165	27.1	27.8	26.5	24.4	26.3	27	26.6	24.3				24.6	25.4	26	24.4						165
170	25.6	26.4	26.2	24.4	24.8	25.6	26.1	24.3				23.1	23.9	24.6	24.3						170
175	24.1	24.9	25.4	24.4	23.4	24.2	25	24.3				21.7	22.5	23.3	24						175
180	22.6	23.4	24.2	24.3	22	22.8	23.6	24													

Lifting capacities

Forces de levage

TYVEF/TYVENZF 69 ft

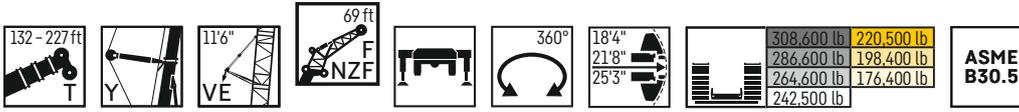


	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*				182 ft + 19 ft 4 in*				194 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°**	
34	48.3																				34
36	47.3																				36
38	46.2				46.9																38
40	45.3				45.9				47												40
45	42.7				43.6				44.6				44.7				43.3				45
50	40.7	33.2			41.4	33.6			42.6				42.8				41.4				50
55	38.6	31.6			39.6	32.3			40.6	32.8			41	32.9			39.8				55
60	36.9	30.2	24.7		37.8	31	25.1		38.9	31.7			39.2	31.8			38.4	31.2			60
65	35.3	28.9	23.8		36.2	29.7	24.3		37.3	30.6	24.9		37.7	30.8	25.1		36.9	30.2			65
70	33.7	27.6	23		34.7	28.6	23.5		35.9	29.6	24.1		36.2	29.8	24.4		35.6	29.5	24.1		70
75	32.2	26.5	22.2	16.5	33.3	27.5	22.7		34.5	28.5	23.4		34.9	29	23.7		34.4	28.5	23.5		75
80	30.8	25.5	21.5	16.2	32.1	26.4	22	16.3	33.2	27.5	22.6	16.4	33.7	28.1	23		33.2	27.7	22.8		80
85	29.4	24.6	20.8	15.9	30.8	25.5	21.3	16	32	26.5	22	16.2	32.6	27.1	22.3	16.3	32.1	26.9	22.2	16.3	85
90	28.2	23.6	20.2	15.5	29.6	24.6	20.7	15.7	30.9	25.6	21.4	16	31.5	26.2	21.8	16	31	26.1	21.6	15.9	90
95	26.9	22.8	19.5	15.2	28.4	23.7	20.2	15.4	29.8	24.7	20.8	15.7	30.5	25.4	21.2	15.8	30.1	25.3	21.1	15.7	95
100	25.8	21.9	19	14.9	27.3	22.9	19.6	15.2	28.7	24	20.2	15.4	29.5	24.6	20.6	15.5	29.2	24.5	20.6	15.5	100
105	24.9	21.2	18.4	14.7	26.2	22.1	19	14.9	27.7	23.1	19.7	15.2	28.6	23.9	20	15.3	28.3	23.8	20	15.2	105
110	23.8	20.5	18	14.5	25.2	21.4	18.5	14.7	26.7	22.4	19.2	14.9	27.6	23.1	19.6	15	27.5	23.1	19.5	15	110
115	22.9	19.8	17.5	14.2	24.3	20.7	18.1	14.4	25.8	21.8	18.7	14.7	26.8	22.4	19.1	14.8	26.8	22.5	19.1	14.8	115
120	22	19.2	17.1	14	23.4	20.2	17.6	14.2	24.8	21.1	18.2	14.5	25.9	21.8	18.7	14.6	25.9	21.8	18.7	14.6	120
125	21.2	18.6	16.6	13.8	22.5	19.6	17.2	14	23.9	20.5	17.8	14.3	25.1	21.2	18.2	14.4	25.2	21.3	18.3	14.4	125
130	20.4	18.1	16.2	13.7	21.8	19	16.8	13.9	23.1	19.9	17.4	14.1	24.2	20.6	17.8	14.2	24.4	20.7	17.9	14.2	130
135	19.7	17.5	15.9	13.5	21	18.5	16.4	13.7	22.4	19.4	17	14	23.4	20.1	17.4	14.1	23.6	20.1	17.5	14.1	135
140	19.1	17.1	15.5	13.4	20.3	18	16.1	13.6	21.7	18.9	16.7	13.8	22.7	19.5	17.1	13.9	22.9	19.7	17.1	13.9	140
145	18.4	16.6	15.2	13.3	19.7	17.4	15.8	13.5	21	18.4	16.3	13.7	22	19	16.7	13.8	22.2	19.2	16.8	13.8	145
150	17.9	16.2	14.9	13.3	19	17	15.5	13.4	20.4	17.9	16	13.6	21.3	18.5	16.4	13.7	21.5	18.7	16.5	13.7	150
155	17.3	15.8	14.6	13.2	18.5	16.6	15.1	13.3	19.7	17.5	15.7	13.5	20.6	18.1	16.1	13.6	21	18.3	16.2	13.6	155
160	16.8	15.5	14.4	13.2	17.9	16.2	14.9	13.3	19.1	17	15.4	13.4	20	17.7	15.8	13.5	20.3	17.9	15.9	13.5	160
165	16.4	15.1	14.2	13.2	17.4	15.9	14.6	13.2	18.6	16.7	15.2	13.4	19.5	17.3	15.6	13.4	19.8	17.5	15.6	13.4	165
170	15.9	14.8	14	13.2	17	15.5	14.4	13.2	18.1	16.3	14.9	13.3	19	16.9	15.3	13.3	19.3	17.1	15.4	13.3	170
175	15.5	14.6	13.8	13.2	16.5	15.2	14.2	13.2	17.6	16	14.7	13.2	18.5	16.5	15	13.3	18.7	16.7	15.1	13.3	175
180	15.1	14.3	13.7		16.1	14.9	14	13.2	17.2	15.6	14.5	13.2	18	16.2	14.8	13.2	18.2	16.4	14.9	13.2	180
185	14.7	14.1	13.6		15.7	14.6	13.8	13.2	16.7	15.3	14.3	13.2	17.5	15.9	14.6	13.2	17.8	16.1	14.7	13.1	185
190	14.4	13.9	13.5		15.3	14.3	13.7	13.2	16.3	15	14.1	13.2	17.1	15.6	14.4	13.2	17.4	15.8	14.5	13.1	190
195	14.1	13.7	13.5		14.9	14.1	13.6		15.9	14.7	13.9	13.2	16.6	15.3	14.2	13.1	17	15.5	14.3	13.1	195
200	12.8	13.6	13.5		14.6	13.9	13.5		15.5	14.5	13.8	13.2	16.2	15	14	13.1	16.6	15.2	14.1	13.1	200
205	9.5	11.5	12.4		13.8	13.7	13.4		15.1	14.2	13.7		15.8	14.7	13.9	13.1	16.2	14.9	13.9	13.1	205
210	5.2	7			11.5	13.2	13.4		14.7	14	13.5		15.4	14.4	13.7	13.1	15.9	14.7	13.8	13.1	210
215					9.3	10.8	11.8		14.3	13.8	13.4		14.8	14.2	13.6	13.1	15.2	14.4	13.7	13.1	215
220					6.7	8.3	9		12.8	13.6	13.3		13.4	14	13.5		13.8	14.2	13.5	13.1	220
225					2.9	4.8			10.8	12.3	13.1		11.9	13.1	13.3		12.5	13.5	13.4		225
230									8.9	10.2	11		10.4	11.6	12.5		11.2	12.3	13.1		230
235									6.7	8.1	8.7		9.1	10.2	10.9		10	11	11.7		235
240									3.6	5.3			7.5	8.7	9.4		8.8	9.8	10.5		240
245													5.8	7.1	7.8		7.5	8.6	9.3		245
250													3.5	5	5.7		5.9	7.2	7.9		250
255																	4.1	5.4	6.2		255
260																		3.4	4.1		260

Lifting capacities

Forces de levage

TYVEF/TYVENZF 69 ft



	199 ft + 19 ft 4 in*				210 ft + 19 ft 4 in*				215 ft + 19 ft 4 in*				227 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°***	0°	10°	20°	40°	0°	10°	20°	40°**	
50	42.1				41				41.2				40.5				50
55	40.6				39.4				39.6				39				55
60	39	31.6			38.1	31			38.3	31.1			37.7				60
65	37.6	30.6			36.8	30.1			37	30.2			36.4	29.8			65
70	36.2	29.7	24.4		35.5	29.3	24.2		35.7	29.4			35.2	29.1			70
75	34.9	28.9	23.8		34.3	28.5	23.5		34.5	28.6	23.7		34.1	28.3	23.6		75
80	33.7	28.1	23.1		33.2	27.8	22.9		33.5	27.8	23		33.2	27.6	23		80
85	32.6	27.3	22.5		32.2	27.1	22.4		32.4	27.2	22.5		32.2	27	22.5		85
90	31.6	26.5	21.9	16	31.2	26.3	21.8	16	31.5	26.5	21.9	16	31.3	26.4	21.9	16	90
95	30.7	25.7	21.4	15.8	30.3	25.6	21.3	15.7	30.6	25.8	21.4	15.8	30.3	25.7	21.4	15.7	95
100	29.7	24.9	20.8	15.5	29.4	24.9	20.8	15.5	29.7	25.1	20.9	15.6	29.4	25.1	21	15.5	100
105	28.8	24.3	20.3	15.3	28.6	24.2	20.3	15.3	28.9	24.4	20.5	15.3	28.7	24.5	20.5	15.3	105
110	28	23.6	19.8	15.1	27.8	23.5	19.8	15.1	28	23.8	19.9	15.1	28	23.8	20	15.1	110
115	27.2	22.9	19.3	14.9	27.1	22.9	19.4	14.9	27.2	23.1	19.5	14.9	27.2	23.2	19.6	14.9	115
120	26.4	22.3	18.9	14.7	26.4	22.3	18.9	14.6	26.6	22.5	19.1	14.7	26.5	22.6	19.1	14.7	120
125	25.7	21.6	18.5	14.5	25.6	21.7	18.5	14.5	25.9	22	18.7	14.5	25.9	22.1	18.8	14.5	125
130	24.9	21.1	18.1	14.3	24.9	21.2	18.1	14.3	25.2	21.4	18.3	14.4	25.2	21.5	18.4	14.3	130
135	24.1	20.5	17.7	14.2	24.3	20.6	17.8	14.2	24.5	20.8	17.9	14.2	24.6	21.1	18	14.2	135
140	23.4	20	17.4	14	23.6	20.1	17.4	14	23.9	20.3	17.6	14.1	24	20.6	17.7	14.1	140
145	22.7	19.5	17	13.9	22.9	19.6	17.1	13.9	23.3	19.8	17.3	13.9	23.4	20.1	17.4	13.9	145
150	22	19	16.7	13.8	22.2	19.2	16.8	13.8	22.6	19.4	16.9	13.8	22.8	19.6	17	13.8	150
155	21.4	18.6	16.4	13.6	21.6	18.8	16.5	13.7	22	19	16.6	13.7	22.2	19.3	16.7	13.7	155
160	20.8	18.1	16.1	13.5	21.1	18.4	16.2	13.5	21.4	18.5	16.3	13.6	21.6	18.8	16.5	13.6	160
165	20.3	17.8	15.8	13.4	20.5	18	15.9	13.4	20.8	18.1	16.1	13.5	21	18.4	16.2	13.5	165
170	19.7	17.4	15.6	13.4	19.9	17.6	15.7	13.4	20.3	17.7	15.8	13.4	20.5	18	15.9	13.4	170
175	19.2	17	15.4	13.3	19.4	17.2	15.4	13.3	19.7	17.4	15.6	13.3	20	17.6	15.7	13.3	175
180	18.7	16.7	15.1	13.2	18.9	16.9	15.2	13.2	19.2	17	15.3	13.2	19.5	17.3	15.4	13.2	180
185	18.2	16.3	14.9	13.1	18.5	16.5	15	13.1	18.8	16.7	15.1	13.1	18.8	17	15.2	13.1	185
190	17.8	16	14.7	13.1	18	16.2	14.8	13.1	18.1	16.4	14.9	13.1	17.6	16.6	15	13	190
195	17.2	15.7	14.5	13	17.6	15.9	14.6	13	17.3	16.1	14.7	13	16.6	16.3	14.8	13	195
200	16.8	15.4	14.3	13	17.1	15.6	14.4	13	16.1	15.8	14.5	13	15.5	16	14.6	12.9	200
205	16.4	15.1	14.1	13	16.5	15.3	14.2	13	15	15.4	14.3	13	14.5	15.3	14.4	12.9	205
210	15.7	14.8	13.9	13	15.4	15.1	14	13	13.9	15	14.1	12.9	13.4	14.5	14.2	12.9	210
215	14.5	14.6	13.7	13	14.3	14.7	13.9	12.9	12.8	13.9	13.9	12.9	12.4	13.4	14.1	12.9	215
220	13.2	14.1	13.6	13	13.2	14.3	13.7	12.9	11.8	12.8	13.5	12.9	11.4	12.5	13.3	12.9	220
225	11.9	13.1	13.3	13	12	13.1	13.6	12.9	10.7	11.8	12.7	12.9	10.5	11.5	12.3	12.8	225
230	10.7	11.8	12.7		11	11.9	12.7	12.9	9.7	10.8	11.6	12.6	9.5	10.5	11.3	12.4	230
235	9.6	10.6	11.3		9.9	10.8	11.7	12.3	8.7	9.7	10.5	11.4	8.5	9.5	10.4	11.4	235
240	8.5	9.5	10.2		8.9	9.9	10.6		7.6	8.7	9.5	10.3	7.5	8.6	9.4	10.4	240
245	7.2	8.3	9.1		7.7	8.8	9.5		6.5	7.6	8.4		6.6	7.6	8.4	9.3	245
250	5.8	7	7.8		6.5	7.6	8.4		5.4	6.5	7.4		5.6	6.6	7.4		250
255	4.2	5.5	6.3		5.3	6.5	7.2		4.3	5.4	6.2		4.6	5.6	6.4		255
260		3.7	4.5		4	5.2	5.9		3.1	4.2	5			4.6	5.4		260
265						3.8	4.5				3.7			3.6	4.3		265
270							2.9								3.2		270

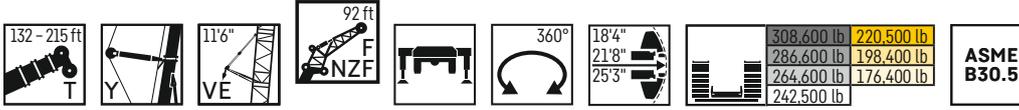
* Adapter - Pièce d'adaptateur

** only possible in TYVENZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TYVENZF)

Lifting capacities

Forces de levage

TYVEF/TYVENZF 92 ft

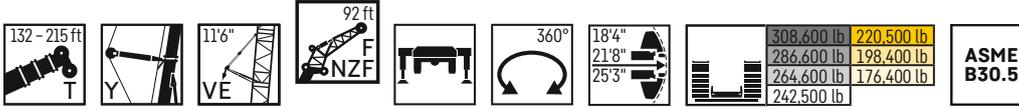


	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*				182 ft + 19 ft 4 in*				194 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°**	20°**	40°**	
38	34.3																				38
40	33.5																				40
45	31.9				32.4				33.1												45
50	30.2				30.8				31.4				31.6				30.5				50
55	28.7	23.3			29.2				30.1				30.1				29.3				55
60	27.2	22.2			27.9	22.6			28.7	22.5			28.9				28.1				60
65	26	21.1			26.6	21.7			27.3	22.1			27.5	22.1			26.9	21.6			65
70	24.8	20.1	16.2		25.5	20.8			26.3	21.4			26.5	21.4			26	21			70
75	23.6	19.3	15.5		24.4	19.8	15.8		25.2	20.6	16.3		25.4	20.7			25	20.3			75
80	22.6	18.3	14.9		23.4	19	15.3		24.2	19.8	15.7		24.5	20	15.9		24.1	19.7	15.7		80
85	21.5	17.5	14.4		22.4	18.2	14.7		23.2	18.9	15.2		23.6	19.3	15.4		23.2	19.1	15.2		85
90	20.5	16.8	13.8		21.5	17.4	14.2		22.3	18.2	14.6		22.7	18.6	14.9		22.4	18.5	14.7		90
95	19.5	16.1	13.3	9.9	20.6	16.7	13.7		21.6	17.5	14.1		21.9	17.9	14.4		21.7	17.8	14.2		95
100	18.7	15.4	12.8	9.7	19.7	16.1	13.2	9.8	20.8	16.8	13.7	9.9	21.2	17.2	13.9		21	17.2	13.8		100
105	17.8	14.8	12.4	9.5	18.9	15.5	12.8	9.6	20.1	16.1	13.2	9.7	20.4	16.6	13.5	9.8	20.3	16.6	13.4	9.7	105
110	17.1	14.2	12	9.3	18.1	14.8	12.4	9.4	19.2	15.6	12.8	9.6	19.8	16	13.1	9.6	19.7	16.1	13.1	9.6	110
115	16.3	13.7	11.7	9.1	17.3	14.3	12	9.3	18.4	15	12.5	9.4	19	15.5	12.7	9.5	18.9	15.5	12.7	9.4	115
120	15.6	13.2	11.3	9	16.6	13.8	11.6	9.1	17.6	14.5	12.1	9.3	18.3	15	12.4	9.3	18.3	15	12.3	9.3	120
125	14.9	12.7	11	8.8	16	13.3	11.3	9	16.9	14	11.7	9.1	17.7	14.5	12	9.1	17.8	14.5	12	9.1	125
130	14.3	12.2	10.7	8.7	15.3	12.9	11	8.8	16.3	13.5	11.4	9	17	14.1	11.7	9	17.1	14.1	11.7	9	130
135	13.8	11.8	10.4	8.6	14.7	12.5	10.7	8.7	15.7	13.1	11.1	8.8	16.4	13.6	11.3	8.9	16.6	13.6	11.4	8.9	135
140	13.2	11.4	10.2	8.5	14.1	12	10.5	8.6	15.1	12.7	10.8	8.7	15.9	13.1	11	8.8	16	13.2	11.1	8.8	140
145	12.7	11.1	9.9	8.4	13.6	11.6	10.3	8.5	14.5	12.3	10.6	8.6	15.3	12.8	10.8	8.7	15.4	12.8	10.9	8.7	145
150	12.2	10.7	9.7	8.3	13	11.3	10	8.4	14	11.9	10.4	8.5	14.7	12.4	10.6	8.6	14.9	12.5	10.7	8.6	150
155	11.7	10.5	9.5	8.2	12.5	11	9.8	8.3	13.5	11.5	10.1	8.4	14.2	12	10.4	8.5	14.3	12.1	10.4	8.5	155
160	11.3	10.2	9.3	8.1	12.1	10.7	9.6	8.2	13	11.2	9.9	8.3	13.8	11.6	10.2	8.4	13.8	11.7	10.2	8.4	160
165	11	10	9.2	8.1	11.7	10.4	9.5	8.2	12.6	10.9	9.8	8.3	13.3	11.3	10	8.3	13.4	11.4	10.1	8.3	165
170	10.7	9.8	9	8	11.3	10.2	9.3	8.1	12.1	10.7	9.6	8.2	12.8	11.1	9.8	8.3	13	11.1	9.9	8.3	170
175	10.3	9.5	8.9	8	11	10	9.1	8	11.7	10.4	9.4	8.1	12.4	10.8	9.7	8.2	12.6	10.9	9.7	8.2	175
180	10.1	9.3	8.7	8	10.7	9.8	9	8	11.4	10.2	9.3	8.1	12	10.5	9.5	8.1	12.2	10.7	9.6	8.1	180
185	9.8	9.1	8.6	8	10.4	9.5	8.8	8	11	10	9.1	8.1	11.6	10.3	9.3	8.1	11.9	10.4	9.4	8	185
190	9.6	9	8.5	8	10.1	9.3	8.7	7.9	10.8	9.8	9	8	11.3	10.1	9.2	8	11.5	10.2	9.3	8	190
195	9.3	8.8	8.4	8	9.9	9.1	8.6	7.9	10.5	9.6	8.8	8	10.9	9.9	9	8	11.2	10	9.1	7.9	195
200	9.1	8.6	8.3	8	9.6	9	8.5	7.9	10.3	9.4	8.7	8	10.7	9.7	8.9	7.9	10.8	9.8	9	7.9	200
205	8.9	8.5	8.2		9.4	8.8	8.4	7.9	10	9.2	8.6	7.9	10.4	9.5	8.8	7.9	10.6	9.6	8.8	7.9	205
210	8.7	8.4	8.1		9.2	8.7	8.3	7.9	9.8	9	8.5	7.9	10.2	9.3	8.7	7.9	10.4	9.5	8.7	7.9	210
215	8.6	8.3	8.1		9	8.5	8.2		9.5	8.9	8.4	7.9	10	9.2	8.5	7.9	10.2	9.3	8.6	7.8	215
220	8.4	8.2	8.1		8.8	8.4	8.1		9.3	8.8	8.3	7.9	9.7	9	8.4	7.8	9.9	9.1	8.5	7.8	220
225	8	8.2	8.1		8.6	8.3	8.1		9.1	8.6	8.2	7.9	9.5	8.9	8.3	7.8	9.7	9	8.4	7.8	225
230	5.1	7.2			8.5	8.2	8.1		8.9	8.5	8.1		9.3	8.7	8.3	7.8	9.5	8.8	8.3	7.8	230
235					7.5	8.1	8.1		8.8	8.4	8.1		9.1	8.6	8.2	7.8	9.3	8.7	8.2	7.8	235
240					5.4	7.3	7.9		8.5	8.3	8.1		8.9	8.5	8.1		9.1	8.6	8.1	7.8	240
245					2.4	4.7			8.4	8.1	8		8.7	8.3	8.1		8.9	8.4	8.1	7.8	245
250									7.2	8.1	8		8.1	8.2	8		8.6	8.3	8		250
255									5.3	7	7.6		6.9	8	8		7.4	8.2	8		255
260									2.7	4.8			5.4	7	7.7		6.3	7.6	7.9		260
265													3.8	5.5	6.5		5.1	6.5	7.5		265
270														3.7	4.6		3.7	5.3	6.2		270
275																		3.8	4.7		275
280																			3.1		280

Lifting capacities

Forces de levage

TYVEF/TYVENZF 92 ft



	199 ft + 19 ft 4 in*				210 ft + 19 ft 4 in*				215 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°**	20°**	40°**	0°	10°	20°	40°	
50	31.1												50
55	29.8				28.9				29.1				55
60	28.5				27.8				28				60
65	27.5				26.8				27				65
70	26.4	21.2			25.8	20.9			26	20.9			70
75	25.4	20.6			24.9	20.2			25.1	20.3			75
80	24.5	19.9	15.9		24	19.7			24.2	19.8			80
85	23.6	19.3	15.4		23.2	19	15.3		23.5	19.1	15.4		85
90	22.8	18.8	14.9		22.5	18.5	14.8		22.7	18.6	15		90
95	22	18.1	14.5		21.8	18	14.3		21.9	18.1	14.5		95
100	21.3	17.5	14		21.1	17.4	13.9		21.2	17.6	14		100
105	20.6	16.9	13.6	9.8	20.5	16.9	13.5		20.6	17	13.6		105
110	20	16.3	13.3	9.6	19.8	16.3	13.2	9.6	19.9	16.5	13.3	9.6	110
115	19.3	15.8	12.9	9.5	19.3	15.8	12.8	9.4	19.4	16	12.9	9.5	115
120	18.7	15.3	12.5	9.3	18.6	15.3	12.5	9.3	18.8	15.5	12.6	9.3	120
125	18.1	14.8	12.2	9.2	18.1	14.9	12.1	9.1	18.3	15	12.3	9.2	125
130	17.5	14.4	11.8	9	17.5	14.4	11.8	9	17.7	14.6	11.9	9	130
135	16.9	13.9	11.5	8.9	17	13.9	11.6	8.9	17.2	14.1	11.7	8.9	135
140	16.4	13.5	11.2	8.8	16.5	13.5	11.3	8.8	16.7	13.7	11.4	8.8	140
145	15.8	13.1	11	8.7	15.9	13.2	11.1	8.7	16.2	13.3	11.2	8.7	145
150	15.3	12.7	10.8	8.6	15.4	12.8	10.8	8.6	15.7	12.9	10.9	8.6	150
155	14.8	12.4	10.6	8.5	14.9	12.4	10.6	8.5	15.2	12.5	10.7	8.5	155
160	14.3	12	10.4	8.4	14.4	12.1	10.4	8.4	14.7	12.2	10.5	8.5	160
165	13.8	11.7	10.2	8.4	14	11.8	10.2	8.3	14.2	11.9	10.3	8.4	165
170	13.4	11.4	10	8.3	13.5	11.4	10	8.3	13.8	11.6	10.1	8.3	170
175	12.9	11.1	9.8	8.2	13.1	11.2	9.9	8.2	13.4	11.3	10	8.2	175
180	12.5	10.9	9.7	8.2	12.7	10.9	9.7	8.2	12.9	11.1	9.8	8.2	180
185	12.2	10.6	9.5	8.1	12.3	10.7	9.6	8.1	12.6	10.8	9.6	8.1	185
190	11.8	10.4	9.4	8	12	10.5	9.4	8	12.2	10.6	9.5	8.1	190
195	11.5	10.2	9.2	8	11.7	10.3	9.3	8	11.8	10.4	9.3	8	195
200	11.2	10	9	7.9	11.4	10.1	9.1	7.9	11.5	10.2	9.2	7.9	200
205	10.8	9.8	8.9	7.9	11.1	9.9	9	7.9	11.3	10	9.1	7.9	205
210	10.6	9.6	8.8	7.8	10.8	9.7	8.8	7.8	11	9.8	9	7.8	210
215	10.4	9.4	8.7	7.8	10.5	9.5	8.7	7.8	10.7	9.7	8.8	7.8	215
220	10.2	9.3	8.6	7.8	10.3	9.4	8.6	7.8	10.5	9.5	8.7	7.8	220
225	9.9	9.1	8.4	7.8	10.1	9.2	8.5	7.8	10.2	9.3	8.6	7.7	225
230	9.6	9	8.4	7.8	9.9	9.1	8.4	7.8	9.9	9.2	8.5	7.7	230
235	9.4	8.8	8.3	7.8	9.7	8.9	8.3	7.7	9.3	9	8.4	7.7	235
240	9.2	8.7	8.2	7.8	9.3	8.8	8.2	7.7	8.4	8.9	8.3	7.7	240
245	8.7	8.5	8.1	7.8	8.8	8.6	8.2	7.7	7.5	8.5	8.2	7.7	245
250	8	8.4	8.1	7.8	7.9	8.5	8.1	7.7	6.6	7.9	8.1	7.7	250
255	6.9	8.1	8		7	8.1	8.1	7.7	5.7	7	7.8	7.7	255
260	5.8	7.2	7.9		6	7.3	7.9		4.8	6.1	7.1	7.6	260
265	4.7	6.1	7.1		5	6.3	7.3		3.9	5.2	6.2		265
270	3.5	4.9	5.9		4	5.3	6.3		2.9	4.2	5.2		270
275		3.6	4.6		3	4.3	5.2			3.3	4.2		275
280			3.2			3.2	4.1				3.2		280
285							3						285

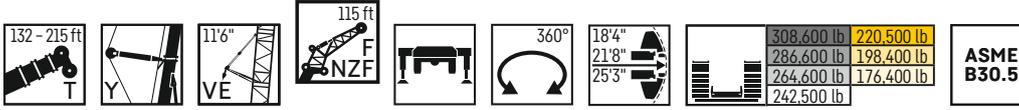
* Adapter - Pièce d'adaptateur

** only possible in TYVENZF mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TYVENZF)

Lifting capacities

Forces de levage

TYVEF/TYVENZF 115 ft



	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*				182 ft + 19 ft 4 in*				199 ft + 19 ft 4 in*				215 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
45	25.2				25.4				25																45
50	23.8				24.4																				50
55	22.7				23.2				23.8				23.8				23.5								55
60	21.7				22.1				22.7				22.7				22.5				21.9				60
65	20.6	16.8			21.2				21.7				21.8				21.6				21.2				65
70	19.7	15.8			20.2	16.3			20.7	16.7			20.9				20.7				20.3				70
75	18.8	15.1			19.3	15.6			19.8	16.1			20	16.1			19.9	16			19.6				75
80	17.9	14.3	11.3		18.5	14.9			19	15.4			19.2	15.6			19.2	15.5			18.9	15.3			80
85	17.1	13.6	10.9		17.7	14.1	11.2		18.3	14.8			18.5	15			18.5	15			18.3	14.8			85
90	16.2	13	10.5		17	13.5	10.8		17.5	14.1	11		17.8	14.4	11.2		17.8	14.5			17.6	14.4			90
95	15.5	12.4	10.2		16.2	12.9	10.4		16.8	13.5	10.7		17.2	13.8	10.8		17.2	14	10.8		17	13.9	10.8		95
100	14.6	11.9	9.9		15.5	12.4	10.1		16.2	12.9	10.4		16.5	13.3	10.5		16.6	13.5	10.6		16.5	13.5	10.5		100
105	13.9	11.4	9.5		14.8	11.8	9.8		15.6	12.4	10		15.9	12.7	10.2		16	12.9	10.3		16	13	10.3		105
110	13.2	10.9	9.2		14.1	11.3	9.5		15	11.9	9.8		15.4	12.2	9.9		15.5	12.4	10		15.4	12.5	10		110
115	12.6	10.5	8.9	6.7	13.4	10.9	9.2	6.8	14.3	11.4	9.4		14.9	11.7	9.6		15	11.9	9.7		14.9	12.1	9.8		115
120	12	10.1	8.7	6.6	12.8	10.5	8.9	6.7	13.7	11	9.2	6.8	14.3	11.3	9.4	6.8	14.5	11.5	9.5		14.5	11.6	9.5		120
125	11.5	9.8	8.4	6.4	12.2	10.2	8.7	6.5	13.1	10.7	9	6.6	13.7	10.9	9.1	6.7	14	11.1	9.2	6.7	14.1	11.3	9.2	6.7	125
130	11	9.4	8.2	6.3	11.8	9.8	8.4	6.4	12.4	10.3	8.7	6.5	13.1	10.6	8.9	6.6	13.5	10.8	9	6.6	13.6	10.9	9	6.6	130
135	10.6	9.1	8	6.2	11.3	9.5	8.2	6.3	12	10	8.5	6.4	12.6	10.3	8.7	6.5	13	10.5	8.8	6.5	13.1	10.6	8.8	6.5	135
140	10.1	8.8	7.7	6.1	10.8	9.2	8	6.2	11.6	9.7	8.3	6.3	12.1	10	8.4	6.3	12.4	10.2	8.6	6.3	12.7	10.3	8.6	6.4	140
145	9.8	8.5	7.5	5.9	10.4	9	7.8	6	11.1	9.4	8.1	6.2	11.7	9.7	8.2	6.2	12	9.9	8.4	6.2	12.2	10	8.5	6.3	145
150	9.4	8.3	7.3	5.8	10	8.7	7.6	5.9	10.7	9.1	7.9	6	11.2	9.4	8	6.1	11.6	9.6	8.2	6.1	11.8	9.8	8.3	6.2	150
155	9.1	8	7.1	5.7	9.7	8.4	7.4	5.8	10.3	8.9	7.7	5.9	10.9	9.2	7.8	6	11.2	9.4	8	6	11.4	9.5	8.1	6.1	155
160	8.8	7.8	6.9	5.6	9.4	8.2	7.2	5.7	10	8.6	7.5	5.8	10.5	8.9	7.6	5.9	10.8	9.1	7.8	6	11.1	9.3	7.9	6	160
165	8.5	7.6	6.8	5.6	9	7.9	7	5.6	9.6	8.4	7.3	5.8	10.1	8.7	7.5	5.9	10.5	8.9	7.6	5.9	10.8	9.1	7.7	5.9	165
170	8.2	7.3	6.6	5.5	8.7	7.7	6.8	5.6	9.4	8.1	7.1	5.7	9.8	8.4	7.3	5.8	10.1	8.7	7.4	5.8	10.4	8.8	7.6	5.8	170
175	7.9	7.2	6.5	5.4	8.5	7.5	6.7	5.5	9.1	7.9	7	5.6	9.5	8.2	7.2	5.7	9.8	8.4	7.3	5.7	10.1	8.6	7.4	5.8	175
180	7.7	7	6.3	5.4	8.2	7.3	6.6	5.5	8.8	7.7	6.8	5.6	9.2	8	7	5.6	9.5	8.2	7.1	5.7	9.8	8.4	7.2	5.7	180
185	7.5	6.8	6.2	5.3	7.9	7.1	6.4	5.4	8.5	7.5	6.7	5.5	8.9	7.8	6.9	5.5	9.3	8	7	5.6	9.5	8.2	7.1	5.6	185
190	7.2	6.6	6.1	5.3	7.7	7	6.3	5.3	8.3	7.3	6.5	5.4	8.6	7.6	6.7	5.5	9	7.8	6.9	5.5	9.3	8	7	5.6	190
195	7	6.4	5.9	5.2	7.5	6.8	6.2	5.3	8	7.1	6.4	5.4	8.4	7.4	6.6	5.4	8.7	7.6	6.7	5.5	9	7.8	6.8	5.5	195
200	6.8	6.3	5.8	5.2	7.3	6.6	6	5.2	7.8	7	6.3	5.3	8.2	7.2	6.4	5.4	8.5	7.5	6.6	5.4	8.8	7.6	6.7	5.4	200
205	6.6	6.1	5.7	5.1	7.1	6.5	5.9	5.2	7.6	6.8	6.2	5.3	7.9	7.1	6.3	5.3	8.3	7.3	6.5	5.3	8.6	7.5	6.6	5.4	205
210	6.4	6	5.6	5.1	6.9	6.3	5.8	5.2	7.4	6.6	6	5.2	7.7	6.9	6.2	5.3	8.1	7.1	6.4	5.3	8.3	7.3	6.5	5.3	210
215	6.2	5.9	5.5	5.1	6.7	6.2	5.7	5.1	7.2	6.5	5.9	5.2	7.5	6.8	6.1	5.2	7.8	7	6.2	5.3	8.1	7.2	6.4	5.3	215
220	6.1	5.7	5.4	5.1	6.5	6	5.6	5.1	7	6.3	5.8	5.2	7.3	6.6	6	5.2	7.6	6.8	6.1	5.2	7.9	7	6.2	5.2	220
225	5.9	5.6	5.4		6.3	5.9	5.5	5.1	6.8	6.2	5.7	5.2	7.1	6.5	5.9	5.2	7.5	6.7	6	5.2	7.7	6.9	6.1	5.2	225
230	5.8	5.5	5.3		6.2	5.8	5.5	5.1	6.6	6.1	5.6	5.1	6.9	6.3	5.8	5.1	7.3	6.5	5.9	5.1	7.5	6.7	6	5.2	230
235	5.7	5.4	5.3		6	5.7	5.4	5.1	6.4	6	5.6	5.1	6.8	6.2	5.7	5.1	7.1	6.4	5.8	5.1	7.4	6.6	6	5.1	235
240	5.5	5.4	5.2		5.9	5.6	5.3		6.3	5.8	5.5	5.1	6.6	6.1	5.6	5.1	6.9	6.3	5.8	5.1	7.2	6.5	5.9	5.1	240
245	5.4	5.3	5.2		5.7	5.5	5.3		6.1	5.7	5.4	5.1	6.4	6	5.6	5.1	6.7	6.2	5.7	5.1	7	6.3	5.8	5.1	245
250	4.6	5.3	5.2		5.6	5.4	5.3		6	5.6	5.4		6.3	5.8	5.5	5.1	6.6	6.1	5.6	5.1	6.8	6.2	5.7	5.1	250
255		3.7			5.4	5.3	5.2		5.8	5.5	5.3		6.1	5.8	5.4	5.1	6.4	5.9	5.5	5	6.5	6.1	5.6	5	255
260					4.1	5.3	5.2		5.7	5.5	5.3		6	5.7	5.4	5.1	6.3	5.8	5.4	5	6	6	5.5	5	260
265						4.2	5		5.5	5.4	5.3		5.9	5.6	5.3		6.1	5.7	5.3	5	5.2	5.9	5.5	5	265
270									5.4	5.3	5.2		5.7	5.5	5.3		5.6	5.6	5.3	5	4.4	5.7	5.4	5	270
275									3.9	5.2	5.2		4.9	5.4	5.2		4.8	5.5	5.2		3.6	5	5.3	5	275
280										4	4.9		3.7	5.1	5.2		3.9	5.1	5.2			4.2	5.1	5	280
285													2.3	4.1	5		2.9	4.4	5.1			3.4	4.5	5	285
290														2.6	3.7			3.4	4.5			2.6	3.7		290
295																		3.4							295

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TYVEF/TYVENZF 138 ft



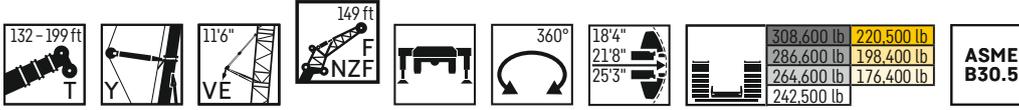
	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*				182 ft + 19 ft 4 in*				199 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	0°	10°	20°	40°	
50	18.6				19				18.6				18.5								50
55	17.7				18				18.6				18.5								55
60	16.9				17.3				17.7				17.6				17.3				60
65	16				16.4				16.8				16.8				16.6				65
70	15.2				15.6				16				16.1				15.9				70
75	14.5	11.5			14.9	11.9			15.3				15.4				15.2				75
80	13.9	11			14.3	11.3			14.7	11.7			14.8	11.8			14.6				80
85	13.3	10.5			13.6	10.9			14.1	11.3			14.2	11.3			14.1	11.2			85
90	12.7	10			13	10.4			13.4	10.8			13.6	10.9			13.5	10.8			90
95	12	9.6	7.8		12.4	10			12.9	10.3			13.1	10.5			13	10.4			95
100	11.4	9.2	7.6		11.9	9.5	7.7		12.4	9.9	7.8		12.5	10.1			12.5	10.1			100
105	10.8	8.8	7.3		11.3	9.2	7.4		11.9	9.5	7.7		12	9.7	7.8		12	9.7			105
110	10.2	8.5	7		10.8	8.8	7.2		11.4	9.2	7.4		11.6	9.4	7.5		11.6	9.4	7.6		110
115	9.8	8.1	6.7		10.3	8.5	6.9		10.9	8.8	7.2		11.2	9	7.2		11.2	9.1	7.3		115
120	9.4	7.8	6.5		9.9	8.1	6.7		10.5	8.5	6.9		10.7	8.7	7		10.8	8.8	7.1		120
125	8.9	7.5	6.3		9.5	7.9	6.5		10.1	8.2	6.7		10.3	8.4	6.8		10.5	8.6	6.9		125
130	8.6	7.2	6.1	4.1	9.1	7.5	6.3		9.6	7.9	6.5		10	8.1	6.6		10.1	8.3	6.7		130
135	8.3	6.9	5.9	4	8.7	7.3	6.1	4.1	9.2	7.6	6.3	4.2	9.6	7.8	6.4		9.7	8	6.5		135
140	7.9	6.7	5.7	3.9	8.4	7	5.9	4	8.9	7.3	6.1	4.2	9.3	7.6	6.2	4.2	9.4	7.7	6.3		140
145	7.6	6.5	5.5	3.8	8	6.7	5.7	3.9	8.6	7.1	5.9	4.1	8.9	7.3	6	4.1	9.1	7.5	6.1	4.1	145
150	7.3	6.2	5.3	3.7	7.7	6.5	5.5	3.9	8.2	6.9	5.7	4	8.6	7.1	5.8	4	8.8	7.3	5.9	4	150
155	7	6	5.1	3.6	7.4	6.3	5.3	3.7	7.9	6.6	5.5	3.9	8.3	6.8	5.7	3.9	8.5	7.1	5.7	4	155
160	6.7	5.8	5	3.5	7.1	6.1	5.1	3.6	7.6	6.4	5.4	3.8	8	6.6	5.5	3.8	8.2	6.8	5.6	3.9	160
165	6.4	5.6	4.8	3.4	6.9	5.9	5	3.6	7.3	6.2	5.2	3.7	7.7	6.4	5.4	3.8	7.9	6.6	5.4	3.8	165
170	6.2	5.4	4.7	3.4	6.6	5.7	4.8	3.5	7.1	6	5	3.6	7.4	6.2	5.2	3.7	7.7	6.4	5.3	3.8	170
175	5.9	5.2	4.5	3.3	6.4	5.5	4.7	3.4	6.8	5.8	4.9	3.6	7.2	6	5.1	3.7	7.4	6.2	5.1	3.7	175
180	5.7	5	4.4	3.2	6.1	5.3	4.6	3.3	6.6	5.6	4.8	3.5	6.9	5.8	4.9	3.6	7.2	6	5	3.6	180
185	5.5	4.8	4.2	3.1	5.9	5.2	4.4	3.3	6.3	5.4	4.6	3.4	6.7	5.7	4.8	3.5	6.9	5.8	4.9	3.5	185
190	5.3	4.7	4.1	3.1	5.7	5	4.3	3.2	6.1	5.3	4.5	3.3	6.5	5.5	4.7	3.4	6.7	5.7	4.8	3.5	190
195	5.1	4.5	4	3	5.5	4.8	4.2	3.2	5.9	5.1	4.4	3.3	6.2	5.3	4.5	3.4	6.5	5.5	4.6	3.4	195
200	4.9	4.4	3.9	3	5.3	4.7	4.1	3.1	5.7	5	4.3	3.2	6	5.2	4.4	3.3	6.3	5.3	4.5	3.3	200
205	4.7	4.2	3.8	2.9	5.1	4.5	4	3.1	5.5	4.8	4.2	3.2	5.8	5	4.3	3.3	6.1	5.2	4.4	3.3	205
210	4.6	4.1	3.7	2.9	4.9	4.4	3.9	3	5.3	4.7	4.1	3.2	5.6	4.9	4.2	3.2	5.9	5	4.3	3.3	210
215	4.4	4	3.6	2.9	4.8	4.2	3.8	3	5.1	4.5	4	3.1	5.5	4.7	4.1	3.2	5.7	4.9	4.2	3.2	215
220	4.2	3.9	3.5	2.9	4.6	4.1	3.7	3	5	4.4	3.9	3.1	5.3	4.6	4	3.1	5.5	4.8	4.1	3.2	220
225	4.1	3.7	3.4	2.9	4.5	4	3.6	2.9	4.8	4.3	3.8	3	5.1	4.4	3.9	3.1	5.4	4.6	4	3.1	225
230	4	3.6	3.3	2.9	4.3	3.9	3.5	2.9	4.6	4.1	3.7	3	4.9	4.3	3.8	3.1	5.2	4.5	3.9	3.1	230
235	3.8	3.5	3.3	2.9	4.2	3.8	3.4	2.9	4.5	4	3.6	3	4.8	4.2	3.7	3	5	4.4	3.8	3	235
240	3.7	3.4	3.2	2.9	4	3.6	3.4	2.9	4.3	3.9	3.5	3	4.6	4.1	3.6	3	4.9	4.3	3.7	3	240
245	3.6	3.3	3.1	2.9	3.9	3.6	3.3	2.9	4.2	3.8	3.4	3	4.5	4	3.6	3	4.7	4.2	3.7	3	245
250	3.5	3.3	3.1		3.8	3.5	3.2	2.9	4.1	3.7	3.4	2.9	4.3	3.9	3.5	2.9	4.6	4.1	3.6	2.9	250
255	3.4	3.2	3.1		3.6	3.4	3.2	2.9	4	3.6	3.3	2.9	4.2	3.8	3.4	2.9	4.4	4	3.5	2.9	255
260	3.3	3.1	3		3.5	3.3	3.1		3.8	3.5	3.2	2.9	4.1	3.7	3.3	2.9	4.3	3.9	3.4	2.9	260
265	3.2	3.1	3		3.4	3.2	3.1		3.7	3.4	3.2	2.9	4	3.6	3.3	2.9	4.2	3.8	3.3	2.9	265
270	3.1	3.1	3		3.4	3.2	3		3.6	3.4	3.1	2.9	3.9	3.5	3.2	2.9	4.1	3.7	3.3	2.9	270
275		3			3.3	3.1	3		3.5	3.3	3.1		3.7	3.4	3.2	2.9	3.9	3.6	3.2	2.9	275
280						3.1	3		3.4	3.2	3.1		3.6	3.4	3.1	2.9	3.8	3.5	3.2	2.9	280
285						2.8	3		3.3	3.1	3		3.5	3.3	3.1		3.7	3.4	3.1	2.9	285
290									3.2	3.1	3		3.4	3.2	3		3.3	3.3	3.1	2.9	290
295									2.3	3	3		2.9	3.2	3			3.2	3	2.9	295
300										2.7	3				3			3			300
305															3				3		305
310															2.5						310

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TYVEF/TYVENZF 149 ft

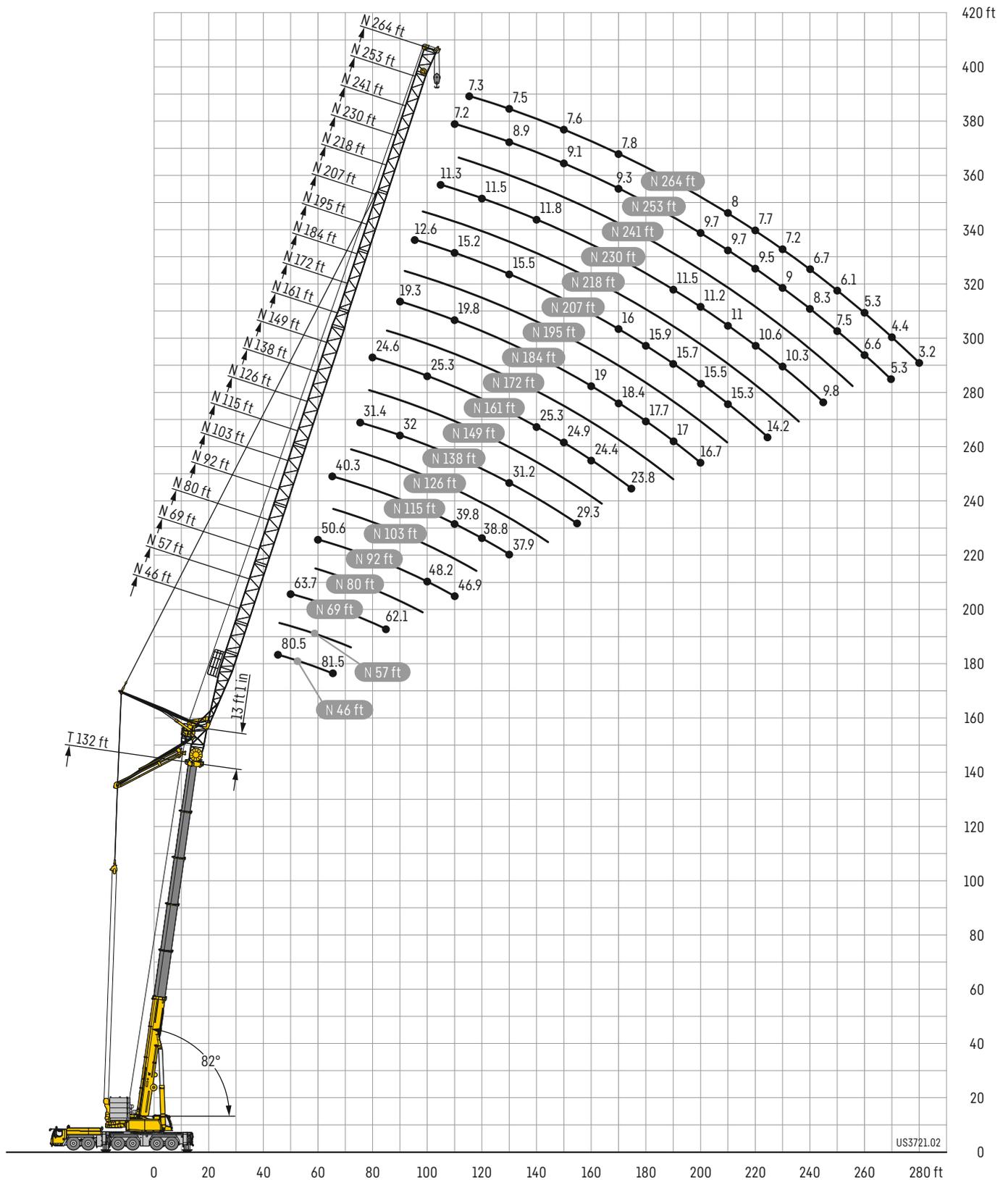


	132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*				165 ft + 19 ft 4 in*			182 ft + 19 ft 4 in*			199 ft + 19 ft 4 in*				
	0°	10°	20°	40°	0°	10°	20°	40°	F/NZF 149 ft			0°	10°	20°	0°	10°	20°		
50	16.5																		50
55	15.6				15.9					16									55
60	14.9				15.2					15.5			15.4						60
65	14.2				14.4					14.8			14.8			14.5			65
70	13.4				13.7					14.1			14.1			13.9			70
75	12.8	10.3			13.1					13.4			13.4			13.3			75
80	12.2	9.8			12.5	10				12.9			12.9			12.8			80
85	11.6	9.3			11.9	9.6				12.3	9.7		12.3	9.7		12.2			85
90	11.1	8.9			11.4	9.2				11.7	9.4		11.8	9.3		11.7	9.3		90
95	10.5	8.5			10.9	8.8				11.2	9		11.3	9		11.3	9		95
100	10.1	8.2	6.5		10.4	8.4				10.7	8.7		10.9	8.7		10.8	8.6		100
105	9.6	7.8	6.3		9.9	8.1	6.5			10.2	8.3		10.4	8.3		10.4	8.3		105
110	9.1	7.4	6.1		9.5	7.7	6.2			9.8	8	6.4	10	8	6.5	10	8		110
115	8.7	7.1	5.8		9.1	7.4	6			9.4	7.7	6.2	9.6	7.7	6.2	9.6	7.7	6.2	115
120	8.3	6.8	5.6		8.7	7.1	5.8			9.1	7.4	6	9.2	7.4	6	9.2	7.4	5.9	120
125	7.9	6.6	5.4		8.3	6.8	5.6			8.7	7.1	5.7	8.9	7.1	5.8	8.9	7.2	5.7	125
130	7.5	6.3	5.2		8	6.6	5.3			8.3	6.8	5.5	8.5	6.9	5.6	8.6	6.9	5.5	130
135	7.2	6	5		7.6	6.3	5.1			8	6.6	5.3	8.2	6.6	5.4	8.3	6.7	5.4	135
140	6.9	5.8	4.8	2.7	7.3	6	5			7.7	6.3	5.2	7.9	6.4	5.2	7.9	6.4	5.2	140
145	6.6	5.5	4.6	2.6	7	5.8	4.8	2.7		7.3	6.1	5	7.6	6.2	5	7.7	6.2	5	145
150	6.3	5.3	4.5	2.5	6.7	5.6	4.6	2.6		7.1	5.9	4.8	7.3	5.9	4.9	7.4	6	4.9	150
155	6.1	5.1	4.3	2.4	6.5	5.4	4.4	2.5		6.8	5.6	4.6	7	5.7	4.7	7.1	5.8	4.7	155
160	5.8	4.9	4.1	2.3	6.2	5.1	4.3	2.5		6.5	5.4	4.5	6.7	5.5	4.5	6.8	5.6	4.6	160
165	5.6	4.7	3.9	2.3	5.9	5	4.1	2.4		6.3	5.2	4.3	6.5	5.3	4.4	6.6	5.4	4.4	165
170	5.3	4.5	3.7		5.7	4.8	4	2.3		6	5	4.2	6.3	5.1	4.2	6.3	5.2	4.3	170
175	5	4.3	3.6		5.5	4.6	3.9			5.8	4.9	4	6	5	4.1	6.1	5	4.1	175
180	4.9	4.2	3.5		5.2	4.5	3.7			5.6	4.7	3.9	5.8	4.8	4	5.9	4.9	4	180
185	4.7	4	3.3		5	4.3	3.6			5.3	4.5	3.8	5.6	4.6	3.8	5.7	4.7	3.9	185
190	4.5	3.9	3.2		4.8	4.1	3.4			5.1	4.3	3.6	5.3	4.5	3.7	5.5	4.6	3.8	190
195	4.3	3.7	3		4.6	4	3.3			4.9	4.2	3.5	5.1	4.3	3.6	5.3	4.4	3.6	195
200	4.1	3.6	2.9		4.4	3.8	3.1			4.7	4	3.4	4.9	4.1	3.5	5.1	4.3	3.5	200
205	3.9	3.4	2.8		4.3	3.7	3			4.5	3.9	3.3	4.7	4	3.4	4.9	4.1	3.4	205
210	3.8	3.3	2.7		4.1	3.5	2.9			4.4	3.7	3.1	4.6	3.8	3.2	4.7	4	3.3	210
215	3.6	3.1	2.6		3.9	3.4	2.8			4.2	3.6	3	4.4	3.7	3.1	4.5	3.8	3.2	215
220	3.5	3	2.5		3.8	3.3	2.6			4	3.5	2.9	4.2	3.6	3	4.4	3.7	3.1	220
225	3.3	2.9	2.4		3.6	3.1	2.5			3.9	3.3	2.7	4.1	3.5	2.9	4.2	3.6	3	225
230	3.2	2.7	2.3		3.5	3	2.4			3.7	3.2	2.6	3.9	3.3	2.8	4.1	3.4	2.8	230
235	3.1	2.6			3.3	2.9	2.3			3.6	3.1	2.5	3.8	3.2	2.6	3.9	3.3	2.7	235
240	2.9	2.5			3.2	2.8	2.2			3.4	3	2.4	3.6	3.1	2.5	3.8	3.2	2.6	240
245	2.8	2.4			3.1	2.6				3.3	2.9	2.3	3.5	3	2.5	3.6	3.1	2.5	245
250	2.7	2.3			2.9	2.5				3.2	2.8	2.3	3.4	2.9	2.4	3.5	3	2.4	250
255	2.6	2.2			2.8	2.4				3	2.6		3.2	2.8	2.3	3.4	2.9	2.3	255
260	2.5				2.7	2.3				2.9	2.5		3.1	2.7		3.2	2.8	2.3	260
265	2.4				2.6	2.2				2.8	2.4		3	2.6		3.1	2.7		265
270	2.3				2.5					2.7	2.3		2.9	2.5		3	2.6		270
275					2.4					2.6	2.2		2.7	2.4		2.9	2.5		275
280					2.3					2.5			2.6	2.3		2.8	2.4		280
285										2.4			2.5	2.2		2.7	2.3		285
290										2.3			2.4				2.2		290
295													2.3						295
300													2.2						300

* Adapter - Pièce d'adaptateur

Lifting heights

Hauteurs de levage



Lifting capacities

Forces de levage

TN 46 ft – 69 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*	
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	
30	156.1			156.1																			30
32	156.1			156.1			148.2																32
34	156.1			156.1			148.4																34
36	156.1			156.1			148.6			126.4													36
38	153.5			156.1			148.6			127.5													38
40	148.2			156.1			148.6			128.4			104.4										40
45	129.8	135.4		143.8	148.3		147.8			129.4			105.6			80.8							45
50	108.6	125		119.9	142.5		135.3	137.5		129.2			105.6			80.2					62.2		50
55		117.9	114.6	98.7	132.2		112.8	136.4		127.2	120.6		105.6			80.3					62.4		55
60		98.5	106.9		120.3	123.4		126		106.6	122		105.6			81					62.1		60
65			101.9		97.7	115.8		117.3	118.6		114.7		105.6			81.5					61.8		65
70						108.5			110.1		107					77.4						47	70
75									101.9		101					77.7						54.6	75
80									95.7		95.4					76.6						53	80
85											91					88.5						51.3	85
90																84.2							90
95																					67.3		95
100																					66.1		100
105																						39.8	105
																						38.4	105

* Adapter - Pièce d'adaptateur
 Hookblock with deadweight of 6,065 lb necessary · Moufle à crochet de poids minimal de 6,065 lb nécessaire

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*				
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°		
38				121.8												38	
40	127			121.9					111.1							40	
45	125.8			121.9					111.9			96.6				45	
50	121.3			121.7					112.3			97.5			83	50	
55	112.8	114.5		121.2	112.2				112.5			98.2			83.8	55	
60	106	106.3		117.6	113.1				112.4	103.5		98.6			84.4	60	
65	94.3	99.5		106.3	112.9				111	105		98.7	90.8		84.9	65	
70	78.6	93.8		90.6	107.1				102.4	106.3		98.8	92.6		85.1	70	
75	67.9	89.6		87.5	77.2				87.2	101.4		97.4	94		85.3	75	
80		76.6		82.7	94.3		102.5		76.7	95.7		84.2	93.5		84.7	80	
85				79.4		78.9				90.3			88.1		81.6	85	
90				70.9						86.2			83.2		81.6	90	
95										80.8			79.1		85.3	95	
100															77.7	100	
105															75	105	
110																73	110
115																66.7	115

	132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*			182 ft + 13 ft 1 in*			199 ft + 13 ft 1 in*		215 ft + 13 ft 1 in*						
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	82°	75°					
50	63.7															50					
55	64.1				47.9											55					
60	64.2				48.3			36.2				25.1				60					
65	63.8				48.4			36.2				25			16.5	65					
70	63.1				48.5			36.3				24.9			16.4	70					
75	62.2				48.3			36.4				24.8			16.3	75					
80	61.9	58.5			48			36.4				24.8			16.3	80					
85	62.1	59.4			47.7	44.3		36.4				24.8			16.3	85					
90		60.1			47.3	43.9		36.2				24.7			16.3	90					
95		60.3				43.2						24.7			16.3	95					
100		60.3				42.3					32.6				16.3	100					
105		60	53.4			41.2					32.1				22.8	105					
110											31.6				22.5	110					
115							31.9				30.9				22.2	115					
120							33.6								21.9	120					
125							32.7					24.1				14.9	125				
130							31.7					23.6					10.1	130			
135												23					10	135			
140															16.3				140		
															15.9					135	
															15.5						140

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 92 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*				
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°		
45				93.8												45	
50	98.8			94.5			86									50	
55	98.6			94.8			86.8				75			64.3		55	
60	98			95			87.3				75.8			65		60	
65	96.3	91.2		94.9	86.9		87.7				76.3			65.6		65	
70	90.4	91.3		94.5	88.1		87.9	79.9			76.8			66		70	
75	82.5	87.3		89.2	89		87.7	81.3			77	69.8		66.3		75	
80	72.8	82.2		80.2	89.5		86.2	82.2			76.7	71		66.3		80	
85	63.8	77.9	78	72	87.8	80	78.3	82.9			75.8	71.9		66	61	85	
90	55	72.5	73.7	64.3	82.4	81.2	69.4	83.3			74.5	72.9		65.5	62	90	
95	51.9	63.9	70	55	74.2	80.4	63.1	81	74.4		68.4	73.6		64.8	62.9	95	
100		55.5	66.7	50.9	65.7	75.9	56.1	75.4	75.9		60.9	73.9	64.8	64	63.7	100	
105		49.3	63.2		59	74.2		67.7	76.3		57.2	72.3	66.4	57.9	64.4	105	
110			54.2		52.2	67.7		60.8	72.6			69.4	68		64.9	56.6	110
115						59.4		53.5	69			61.9	68.2		62.9	58.1	115
120									64.3				65.2		60.6	59.6	120
125									55.6				63			57.6	125
130													60.7				130
135																55.5	135

	132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*			182 ft + 13 ft 1 in*			199 ft + 13 ft 1 in*			215 ft + 13 ft 1 in*		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	
60	50.6			21.4														60
65	50.9			37.3			28											65
70	51			37.4			28.1			19.3			10.5					70
75	50.9			37.6			28.2			19.3			12.1			6.4		75
80	50.6			37.8			28.3			19.2			12			6.4		80
85	50.1			37.9			28.4			19.2			11.9			6.4		85
90	49.5	46.8		38			28.4			19.2			11.9			6.4		90
95	48.8	46.6		38	35.3		28.5			19.2			11.9			6.4		95
100	48.2	46.2		37.8	35.3		28.5			19.1			11.9			6.6		100
105	47.6	46		37.5	35.3		28.4	26.2		19.1			12			6.7		105
110	46.9	46.5		37.3	35		28.2	26		19	17.8		12.1			6.9		110
115		47	41		34.6		28.1	25.7		19	17.7		12.1	10.1		7.1		115
120		47.5	41.7		34			25.4			17.6		12.1	11.5		7.2		120
125		47.8	42.4		33.4	28.5		25			17.4			11.4			6.4	125
130			42.9		32.9	27.9		24.6			17.2			11.2			6.3	130
135			43.2			27.4		24.1	19.6		16.9			11.1			6.3	135
140			42.9			26.7			19.2		16.7			11			6.3	140
145						25.9			18.8			12.8		10.8				145
150						25.1			18.3				12.5					150
155									17.8				12.2		8.4			155
160													11.8		8.2			160
165															8			165

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 115 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 115 ft															
55				74			67.4									55
60	77.9			74.5			68.1			59.2						60
65	77.9			74.8			68.6			59.8			51.3			65
70	77.8			75.1			69.1			60.3			51.6			70
75	77.6			75	68		69.3			60.5			51.9			75
80	75.9	72.1		74.1	68.7		69	62.1		60.7			52.1			80
85	72	72.1		72.2	69.3		68.2	63		60.6			52.2			85
90	66.3	71.3		69.3	69.8		66.9	63.7		60.2	55.3		51.9			90
95	59.8	68.7		64.7	69.8		65.3	64.4		59.6	56.1		51.6	47.6		95
100	54.1	64.8	65.6	58.9	68.6	62.3	62.4	65		58.8	56.8		51.1	48.3		100
105	48.5	60.1	62.9	54.3	65.2	63.4	57.8	65.1	56.8	57.9	57.5		50.6	48.9		105
110	42.9	54.7	59.6	48.6	60.7	64.3	52.5	63.4	58	56.2	58		49.9	49.6		110
115	38	49.3	56.9	42.9	55.8	63.9	48.8	60.6	59.2	51.3	58.2	50.8	49.1	50.2		115
120	34.3	43.8	54	39.7	50.5	60.2	42.5	56.7	60.4	46.8	57.9	52	48.3	50.5	43.2	120
125		37.8	49.3		46	56.4	40.9	51.7	60.3	41.8	56.3	53.2	45.5	50.4	44.3	125
130			43.8		39.9	52.1		48.5	57.8		52.8	54.3	42.8	50.3	45.4	130
135			37			47.2		42.3	54.6		47.8	54.4		49.9	46.5	135
140						42.1			50.2		44.2	52.2		48.5	47.5	140
145									45.1			50		44.4	47.4	145
150												47.9			45.6	150
155												42.8			43.7	155
160															42	160

	132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*			182 ft + 13 ft 1 in*			199 ft + 13 ft 1 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 115 ft															
65	40.3															65
70	40.6			29.1												70
75	40.8			29.3			21.6			14.8						75
80	41			29.4			21.7			14.8			8.7			80
85	41			29.5			21.8			14.8			8.8			85
90	41			29.7			21.8			14.7			8.8			90
95	40.8			29.8			21.9			14.7			8.9			95
100	40.5	37.9		29.9			21.9			14.7			8.9			100
105	40.1	38		30	27.5		22			14.7			8.9			105
110	39.8	37.9		30.1	27.8		22			14.7			8.9			110
115	39.3	37.7		30.1	28.1		22.1	20.3		14.7			8.9			115
120	38.8	37.4		30.1	28.3		22	20.4		14.6	13.5		8.9			120
125	38.3	36.9		29.9	28.3		21.9	20.4		14.6	13.5		8.9			125
130	37.9	36.9	32.1	29.8	28.1		21.9	20.3		14.6	13.5		8.9	8.5		130
135		37.2	32.8	29.6	27.8		21.8	20.1		14.5	13.4		9.1	8.6		135
140		37.5	33.5		27.4	23.2		19.9		14.5	13.4		9.1	8.6		140
145		37.7	34.1		27.1	22.9		19.6			13.3			8.5		145
150		37.9	34.6		26.7	22.6		19.3	15.6		13.1			8.5		150
155			35		26.4	22.1		19.1	15.4		12.9			8.4		155
160			35.2			21.6			15		12.7	9.9		8.4		160
165			35.1			21			14.7			9.8		8.2		165
170						20.4			14.4			9.6			6.2	170
175									14			9.4			6.1	175
180									13.7			9.2			6	180
185												8.9			5.8	185
190															5.7	190

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 138 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
60				58.1												60
65				58.5			53.3									65
70	61.9			58.9			53.6						46.5			70
75	61.8			59			53.8						46.8			75
80	61.6			58.9			54						47			80
85	61.3			58.9	52.7		54.1						47.2			85
90	60.9	56.4		58.8	53.3		54.2	48					47.3			90
95	59.5	56.6		58.7	53.8		54.2	48.7					47.4			95
100	56.7	56.8		58.4	54.3		54.2	49.3					47.5	42.7		100
105	51.9	57		55.2	54.7		53.9	49.9					47.5	43.3		105
110	47.5	55.8		51.1	55.1	47.7	53.1	50.4					47.5	43.8		110
115	43.3	52	51.9	47	54.5	48.6	50.4	50.9					47.5	44.3		115
120	39.3	48.1	52.1	44.1	52.2	49.5	47.2	51.3	44.1				47.5	44.8		120
125	35.5	44.3	50.7	40.4	48.8	50.3	43.2	51.4	45				45.9	45.3	38.5	125
130	31.6	40.4	47.7	36.5	45.1	50.6	40	49.4	46				42.4	45.7	39.3	130
135	29.4	36.5	44.2	32.3	41.7	48.7	36.1	46.6	46.9				38.6	46.1	40.2	135
140	27.2	32.8	40.7	31.4	39	45.7	32.3	43	47.5				35.5	46	41.1	140
145		28.8	37.1	27.3	35.3	42.6	31.8	39.5	46.8				33.1	43.8	41.9	145
150		27.7	33.4		31	39.3		36.6	45				31.1	40.3	42.8	150
155			29.1		29.8	36.5		32.3	42					37	43.5	155
160						33.1		30.2	38.7					33.5	43	160
165						27.8			35.8					30.8	40.9	165
170									31.6						37.5	170
175															33.7	175
180																180

	132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*			182 ft + 13 ft 1 in*					
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°			
75	31.4			21.7									75		
80	31.6			21.8					15.9				80		
85	31.8			21.9					16			10.4	85		
90	32			22					16			10.5	90		
95	32.2			22.1					16			10.5	95		
100	32.3			22.2					16.1			10.5	100		
105	32.3			22.3					16.2			10.4	105		
110	32.2	29.5		22.3					16.2			10.4	110		
115	32	29.8		22.4	20.4				16.3			10.4	115		
120	31.8	29.9		22.5	20.6				16.4			10.4	120		
125	31.5	29.9		22.6	20.8				16.4	15.1		10.4	125		
130	31.2	29.9		22.6	21				16.5	15.1		10.4	9.6	130	
135	30.9	29.8		22.6	21.2				16.5	15.2		10.4	9.6	135	
140	30.6	29.6	23.5	22.7	21.5				16.5	15.2		10.4	9.6	140	
145	30.3	29.2	25.1	22.6	21.6				16.4	15.2		10.4	9.6	145	
150	30	28.9	24.6	22.4	21.6	17.9			16.4	15.2		10.3	9.6	150	
155	29.3	28.4	25.1	22.2	21.4	17.9			16.3	15		10.3	9.6	155	
160		28.5	25.6		21.3	17.8			16.2	14.9	11.7	10.2	9.5	160	
165		28.7	26		21.1	17.6				14.7	11.5		9.5	165	
170		28.8	26.5		20.9	17.4				14.6	11.3		9.4	170	
175			27		20.7	17.1				14.4	11.1		9.3	7.1	175
180			27.5			16.8				14.2	11		9.2	7	180
185			28.1			16.4					10.8		9.1	6.9	185
190			28.3			16					10.5			6.8	190
195						15.7					10.3			6.6	195
200											10			6.4	200
205														6.2	205

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 161 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
70				46.5												70
75				46.6			42.5			36.9						75
80	49			46.7			42.7			37.2			31.5			80
85	49			46.7			42.8			37.4			31.7			85
90	48.8			46.7			42.9			37.5			31.9			90
95	48.7			46.7			43			37.7			32.1			95
100	48.6			46.6	42		43			37.8			32.4			100
105	48.3	44.7		46.2	42.3		42.8	38.4		37.8			32.5			105
110	47.5	44.9		45.7	42.7		42.5	38.8		37.7	33.7		32.6			110
115	46	45.1		45.1	43		42.1	39.2		37.5	34.1		32.7	29		115
120	43.3	45.2		44.1	43.3		41.7	39.6		37.4	34.5		32.6	29.4		120
125	40.3	44.8		42.8	43.4	37.7	41.1	40		37.1	34.9		32.5	29.7		125
130	37.1	43.2	40.9	39.8	43.3	38.3	40.3	40.1	34.1	36.8	35.3		32.4	30.1		130
135	33.9	40.6	41.3	36.8	42.6	39	38.8	40.1	34.8	36.4	35.7		32.3	30.5		135
140	31	37.8	41.6	34.3	40.9	39.6	36.4	39.9	35.5	36	35.9	30.4	32	30.9		140
145	28.2	34.9	40.2	31.5	38.5	40.1	33.6	39.7	36.2	35.4	35.8	31.1	31.8	31.2	25.8	145
150	25.4	32.1	37.8	28.6	35.7	40	31.3	38.5	36.8	33.1	35.7	31.7	31.5	31.4	26.4	150
155	22.6	29.3	35.3	25.7	33.4	38.6	28.5	36.3	37.4	30.4	35.7	32.4	31.2	31.6	27	155
160	21.8	26.6	32.7	22.7	30.9	36.4	25.5	33.8	37.5	28.1	35.4	33	29.9	31.6	27.6	160
165	18.8	23.7	30.2	22.6	28.2	34.2	23.9	31.7	36.9	25.1	34.1	33.6	27.1	31.6	28.2	165
170		20.5	27.4	18	25.2	31.8	22.4	29.1	35.4	24.3	31.8	33.8	25.4	31.5	28.8	170
175		19	24.4		21.8	29.6		26.3	33.2	21.2	29.5	34	25.3	31.4	29.4	175
180			20.8			27		22.8	30.9		27.1	33.9		30	29.9	180
185						23.8			28.9		23.8	32.3		27.4	30.2	185
190									26.1			29.9		25.7	30.5	190
195												27.4		30.2	195	
200												25.1		29.1	200	
205														26.6	205	

	132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*			182 ft + 13 ft 1 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
80	24.6												80
85	24.8			16.8									85
90	25			16.9			11.9			6.4			90
95	25.1			17			12			6.6			95
100	25.3			17.1			12			6.7			100
105	25.4			17.2			12.1			6.8			105
110	25.5			17.2			12.1			6.9			110
115	25.6			17.3			12.2			7.1			115
120	25.7	23.1		17.4			12.2			7.2			120
125	25.7	23.4		17.4	15.6		12.3			7.4			125
130	25.6	23.7		17.5	15.8		12.3			7.6			130
135	25.5	24		17.6	15.9		12.4		11.1	7.7			135
140	25.3	24		17.6	16.1		12.4	11.2		7.8	6		140
145	25.1	24		17.7	16.3		12.5	11.4		7.9	6.2		145
150	24.9	23.9		17.7	16.5		12.6	11.5		7.9	6.5		150
155	24.7	23.9	20.3	17.7	16.7		12.6	11.5		7.8	6.7		155
160	24.4	23.7	20.4	17.7	16.8		12.6	11.5		7.8	6.9		160
165	24.2	23.5	20.3	17.5	17	14	12.5	11.5		7.8	7.1		165
170	24	23.3	20	17.4	17	14	12.5	11.5		7.8	7.2		170
175	23.8	23.1	19.7	17.3	17	14	12.4	11.4	9.1	7.8	7.2		175
180		22.8	20	17.2	16.9	13.9	12.3	11.3	9	7.7	7.2		180
185		22.4	20.3		16.8	13.8		11.2	8.9	7.6	7.1		185
190		22.5	20.7		16.6	13.6		11.1	8.8		7.1	5.2	190
195		22.6	21.1		16.6	13.4		11	8.7		7	5.1	195
200			21.4		16.4	13.2		10.9	8.6		6.9	4.9	200
205			21.8			12.9		10.8	8.4		6.8	4.9	205
210			22.3			12.7			8.2			4.8	210
215						12.4			8			4.7	215
220									7.8			4.5	220
225									7.6			4.4	225
230												4.2	230

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 184 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*				
	N 184 ft																									
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°		
80			36.9			33.6																			80	
85	38.9		37			33.7			29.2			24.6													85	
90	38.8		36.9			33.8			29.4			24.8			19.3										90	
95	38.3		36.5			33.7			29.5			24.9			19.4			12.7			8.5				95	
100	37.8		36.1			33.5			29.5			25.1			19.5			12.7			8.7				100	
105	37		35.7			33.2			29.4			25.2			19.6			12.8			8.8				105	
110	36.2		35.1	32.9		32.8			29.2			25.1			19.8			12.9			9				110	
115	35.3	34.8	34.3	33		32.4	30.1		29			24.9			19.9			12.9			9.1				115	
120	34.3	34.3	33.5	32.9		31.8	30.3		28.7	26.4		24.7			20			13			9.1				120	
125	33.3	33.7	32.6	32.6		31.3	30.3		28.4	26.7		24.5	22.6		20			13			9.1				125	
130	32.3	33	31.7	32.2		30.6	30.2		28.1	26.8		24.2	22.8		20	17.9		13.1			9.2				130	
135	31.2	32.2	30.8	31.6	29.1	29.8	30		27.6	26.8		23.9	22.9		20	18.2		13.1	11.5		9.2				135	
140	30.1	31.3	29.9	31	29.3	29	29.6		27.1	26.8		23.5	22.9		19.9	18.4		13.2	11.7		9.2				140	
145	29	30.4	30.2	28.9	30.2	29.2	28.2	29.1	26.7	26.6	26.7	23.1	22.9		19.7	18.6		13.3	11.8		9.2	8			145	
150	27.8	29.5	29.7	27.9	29.4	29	27.4	28.6	26.9	25.9	26.5	23.3	22.6	22.9	19.5	18.7		13.3	11.9		9.3	8.3			150	
155	26.4	28.5	29	26.9	28.6	28.6	26.5	28	27	25.3	26.2	23.7	22.1	22.7	19.3	18.8		13.4	12.1		9.3	8.5			155	
160	24.2	27.5	28.3	25.9	27.7	28.1	25.7	27.4	26.8	24.7	25.8	24	21.6	22.5	20.1	19	18.8		13.4	12.2		9.4	8.6		160	
165	22	26.5	27.5	24.3	26.9	27.6	24.8	26.7	26.6	24	25.3	24.1	21	22.2	20.4	18.7	18.8	13.3	13.5	12.4		9.4	8.7		165	
170	19.9	25.2	26.7	22.5	26	26.9	23.9	26	26.2	23.3	24.9	24.2	20.5	21.8	20.6	18.4	18.8	15.9	13.4	12.5		9.5	8.7		170	
175	17.7	23.2	25.8	20.3	25.1	26.2	22	25.2	25.8	22.6	24.4	24.1	19.9	21.5	20.7	18.1	18.8	16	13.4	12.7		9.5	8.8		175	
180	16.6	21.2	25	18.1	24	25.5	19.9	24.4	25.4	21.6	23.9	24	19.4	21.1	20.7	17.7	18.6	16.1	13.3	12.8	10.5	9.4	8.8		180	
185	15.9	19	24	17.5	22.3	24.8	18.8	23.7	24.9	19.5	23.3	23.7	18.9	20.7	20.6	17.4	18.5	16	13.3	12.9	10.6	9.4	8.8		185	
190	12	16.6	22	15.9	20.2	24.1	18.4	22.7	24.3	18.9	22.7	23.4	18.3	20.2	20.5	17	18.3	15.8	13.2	13	10.6	9.4	8.8	6.7	190	
195		15.5	19.8		17.8	23.2	16	20.6	23.7	17.7	22.1	23.1	18.1	19.7	20.3	16.7	18.1	15.6	13.1	13.1	10.6	9.2	8.8	6.7	195	
200			17.4		16.6	21.6		18.7	23		21.1	22.7	17.2	19.3	20.1	16.7	17.8	15.3	13.1	13.1	10.6	8.9	8.7	6.6	200	
205			15.5			19.6		17.7	22.3		18.9	22.2		18.8	19.8		17.6	15.6		13	10.5	8.7	8.7	6.6	205	
210						16.6			20.7			17.8	21.8		18.3	19.5		17.3	15.8		12.9	10.5		8.6	6.5	210
215									18.6				21.4		18.1	19.2		17.1	15.9		12.8	10.3		8.5	6.4	215
220													19.9			18.8			15.9		12.8	10.2		8.4	6.3	220
225																18.5			16		10		8.3	6.2	225	
230																18.2			16			9.9		6	230	
235																		16				9.7		5.9	235	
240																						9.6		5.8	240	
245																							5.6		245	

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 207 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*			165 ft + 13 ft 1 in*			
	N 207 ft																								
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
85			29.4																						85
90			29.5			26.8			23																90
95	31.1		29.5			26.9			23.1			19.4			12.6										95
100	31.1		29.5			27			23.3			19.5			15			9.7							100
105	31		29.5			27			23.4			19.7			15.1			9.7			5.2				105
110	30.7		29.5			27.1			23.5			19.8			15.2			9.7			5.3				110
115	30.4		29.4			27.1			23.6			19.9			15.3			9.8			5.5				115
120	30		29.1	26.1		27.2			23.7			20			15.3			9.8			5.6				120
125	29.6	27.9	28.9	26.3		27.2	23.7		23.8			20.1			15.4			9.9			5.7				125
130	29.3	28.1	28.6	26.5		27.1	23.9		23.8	20.7		20.2			15.5			9.9			5.9				130
135	28.9	28.2	28.3	26.7		26.9	24.2		23.8	21		20.3	17.7		15.6			9.9			6				135
140	28.5	28.2	27.9	26.9		26.7	24.4		23.7	21.2		20.3	17.9		15.6	13.8		10			6.2				140
145	28.2	28	27.6	27		26.5	24.6		23.7	21.4		20.4	18.1		15.7	14		10	8.8		6.4				145
150	27.8	27.7	27.3	27	23	26.3	24.8		23.7	21.6		20.4	18.3		15.8	14.1		10	8.9		6.5				150
155	27.1	27.5	25.2	27.1	26.9	23.4	26.1	25	20.7	23.7	21.8		20.4	18.5		15.9	14.4		10.1	9		6.7	4.7		155
160	25.7	27.3	25.5	26.5	26.7	23.7	25.9	25.2	21.1	23.7	22		20.4	18.7		16	14.6		10.1	9.1		6.7	4.9		160
165	24.1	26.9	25.8	25.8	26.5	24.1	25.7	25.4	21.4	23.6	22.2	18.3	20.4	18.9		16	14.7		10.2	9.2		6.7	5.1		165
170	22.5	26.3	26	24.3	26.4	24.4	25.2	25.3	21.8	23.6	22.4	18.7	20.4	19.1	15.3	16	14.9		10.2	9.3		6.6	5.4		170
175	20.7	25	26.1	23.3	26.2	24.8	24.5	25.3	22.2	23.6	22.6	19	20.3	19.3	15.7	16	15		10.2	9.4		6.6	5.6		175
180	18.9	23.3	26	22	25.2	25.1	23.2	25.1	22.6	23.5	22.8	19.3	20.3	19.5	16	15.9	15.1	11.9	10.3	9.5		6.5	5.9		180
185	17.2	21.7	25.2	20.3	23.8	25.3	21.5	24.9	23	22.9	23	19.7	20.2	19.6	16.3	15.8	15.1	12.2	10.3	9.6		6.4	6.1		185
190	15.5	20	23.7	18.4	22.4	25	20	24.7	23.3	21.4	23.1	20.1	20.2	19.7	16.6	15.7	15.1	12.4	10.3	9.7	7.8	6.3	6.3		190
195	13.8	18.4	22.2	16.6	21.8	24.1	18.5	23.6	23.7	19.7	23.2	20.4	20	19.9	17	15.6	15	12.5	10.2	9.7	8	6.1	6.5		195
200	12.6	16.8	20.7	14.8	20.2	23	16.6	22.1	23.8	18	23	20.8	19.4	20	17.3	15.5	15	12.6	10.2	9.8	8.1	6	6.6		200
205	12.6	15	19.2	13.8	18.5	21.6	14.8	20.5	23.4	16.5	22.4	21.2	17.7	20.2	17.6	15.4	14.9	12.6	10.1	9.9	8.2	5.8	6.7	4.3	205
210	10.6	13.3	17.6	13.6	16.8	20.2	14.8	19.2	23	15.3	20.8	21.6	16	20.3	18	15.3	14.8	12.5	10.1	9.9	8.3	5.6	6.7	4.7	210
215		11.5	16	10.7	14.9	19.7	13.4	17.5	21.9	15.1	19.3	21.9	15.3	20.4	18.4	15.2	14.7	12.3	10	10	8.3	5.4	6.7	4.8	215
220		11.1	14.1		12.9	18.2		15.6	20.4	12.7	17.9	21.9	15.2	19.8	18.8	14.9	14.6	12.1	9.8	10.1	8.3	5.2	6.6	4.7	220
225			11.9		12.6	16.4		13.6	19.1		16.3	21.4		18.1	19.1	14.2	14.5	11.8	9.4	10.1	8.3	4.9	6.6	4.7	225
230					14.3				17.8		14.1	19.9		16.4	19.5		14.4	12	10.1	10.1	8.2	4.7	6.5	4.7	230
235									15.9			18.5		14.7	19.8		14.3	12.3		10.1	8.1		6.5	4.6	235
240									13.4			17.3			19.6		14.2	12.5		10.1	8		6.4	4.5	240
245												15.4			18.1			12.8		10.1	7.9		6.4	4.4	245
250															16.3			13.1			7.8		6.3	4.3	250
255																		13.4			7.7			4.2	255
260																					7.6			4.1	260
265																					7.5			3.9	265
270																								3.8	270

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 230 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*				
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°		
95				23.1			20.9						15										95
100				23.1			21			18													100
105	24.3			23.1			21.1			18.1			15.1			11.3							105
110	24.2			23.1			21.1			18.2			15.2			11.4			6.8				110
115	24.2			23			21.1			18.2			15.3			11.5			6.9				115
120	24.1			22.9			21			18.3			15.3			11.5			7.1				120
125	24.1			22.8			20.9			18.3			15.4			11.6			7.3				125
130	24			22.7	20.2		20.8			18.3			15.4			11.7			7.3				130
135	23.9			22.5	20.4		20.7	18.4		18.2			15.5			11.7			7.4				135
140	23.7	21.7		22.4	20.5		20.5	18.6		18.1	16.1		15.5			11.8			7.4				140
145	23.5	21.7		22.2	20.5		20.4	18.7		18	16.2		15.5	13.5		11.8			7.5				145
150	23.3	21.8		22	20.5		20.2	18.7		17.8	16.3		15.4	13.7		11.9	10.3		7.5				150
155	23	21.8		21.7	20.5		20	18.7		17.7	16.4		15.3	13.9		11.9	10.5		7.6				155
160	22.7	21.7		21.4	20.5	17.5	19.8	18.7		17.5	16.4		15.2	14		12	10.7		7.6	6.3			160
165	22.2	21.5		21	20.4	17.8	19.5	18.6		17.3	16.4		15.1	14		12	10.8		7.6	6.5			165
170	21.7	21.3	19.3	20.6	20.2	17.9	19.1	18.5	16	17.1	16.4		14.9	14		11.9	10.9		7.7	6.7			170
175	20.9	21	19.3	20.1	20	18	18.8	18.4	16.2	16.8	16.3	13.8	14.8	14.1		11.9	11		7.8	6.9			175
180	20	20.6	19.3	19.5	19.7	18	18.3	18.3	16.3	16.5	16.3	14	14.6	14.1		11.8	11		7.8	7			180
185	19.2	20.1	19.1	18.8	19.4	18	17.9	18.1	16.3	16.2	16.2	14.2	14.4	14	11.6	11.7	11.1		7.8	7.1			185
190	18.3	19.5	18.9	18	19	17.9	17.3	17.9	16.4	15.9	16.1	14.3	14.1	14	11.9	11.5	11.1		7.9	7.2			190
195	16.8	18.8	18.6	17.3	18.5	17.8	16.7	17.5	16.4	15.5	15.9	14.4	13.8	13.9	12	11.4	11.1	9.2	7.8	7.2			195
200	15.5	18	18.2	16.5	18	17.6	16.1	17.2	16.3	15.1	15.7	14.4	13.6	13.9	12.1	11.2	11.1	9.4	7.8	7.3			200
205	14	17.3	17.7	15.6	17.4	17.4	15.5	16.8	16.2	14.6	15.5	14.4	13.3	13.7	12.2	11.1	11.1	9.6	7.7	7.4	5.5		205
210	12.6	16.5	17.2	14.3	16.8	17	14.9	16.4	16.1	14.2	15.2	14.4	12.9	13.6	12.3	11	11.1	9.7	7.5	7.4	5.8		210
215	11.3	15.2	16.6	13	16.1	16.7	14.1	15.9	15.9	13.7	14.9	14.4	12.6	13.4	12.4	10.8	11	9.8	7.3	7.5	6		215
220	10.3	13.8	16	11.7	15.4	16.2	13	15.3	15.7	13.2	14.5	14.3	12.3	13.3	12.4	10.6	11	9.9	7.1	7.5	6.1		220
225	10.1	12.4	15.4	10.8	14.4	15.7	11.7	14.8	15.4	12.7	14.2	14.2	11.9	13	12.4	10.5	10.9	9.9	6.9	7.6	6.3		225
230	9.4	11.1	14.6	10.7	13.2	15.2	11.4	14.2	15.1	11.8	13.8	14	11.6	12.8	12.4	10.3	10.9	9.9	6.6	7.6	6.3		230
235	7.5	9.8	13.3	9.5	12	14.6	11.2	13.6	14.7	11.7	13.4	13.9	11.3	12.5	12.4	10.1	10.8	9.8	6.3	7.7	6.3		235
240		9.3	11.8		10.5	14.1	9.7	12.3	14.3	10.8	13	13.6	11.2	12.3	12.3	10	10.7	9.7	6	7.7	6.3		240
245			10.4		10.1	13		11	13.8		12.4	13.4	10.2	12	12.2	9.8	10.6	9.5	5.6	7.8	6.3		245
250			8.6			11.7		10.5	13.4		11.2	13.1		11.7	12.1		10.5	9.3	5.1	7.8	6.3		250
255						10.1			12.6		10.8	12.8			11.4	12		10.4	9.2		7.9	6.3	255
260									11.3			12.5			10.9	11.8		10.3	9.2		8	6.2	260
265												12.1				11.7		10.2	9.3		8	6.1	265
270																11.5			9.3			6	270
275																11.4			9.4			6	275
280																			9.5			5.9	280
285																						5.8	285

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 253 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

ASME B30.5

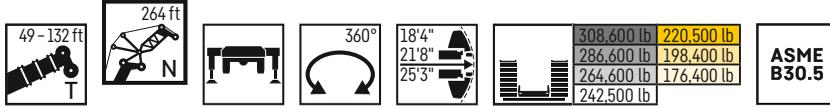
	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			132 ft + 13 ft 1 in*			149 ft + 13 ft 1 in*					
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°			
100				18.4																			100	
105				18.2																				105
110				17.9																				110
115	18.1			17.7																				115
120	17.7			17.4																				120
125	17.4			17.1																				125
130	17.1			16.8																				130
135	16.8			16.5																				135
140	16.4			16.2	15.7																			140
145	16.1			15.9	15.5																			145
150	15.8	15.7		15.6	15.4																			150
155	15.5	15.5		15.3	15.2																			155
160	15.2	15.2		15	15																			160
165	14.9	15		14.8	14.8																			165
170	14.6	14.7		14.5	14.6																			170
175	14.4	14.5		14.3	14.4	13.7																		175
180	14.1	14.3		14	14.2	13.6																		180
185	13.9	14.1	13.8	13.8	14	13.5																		185
190	13.6	13.9	13.7	13.6	13.8	13.4																		190
195	13.3	13.6	13.5	13.3	13.6	13.3																		195
200	13.1	13.4	13.4	13.1	13.4	13.2	13																	200
205	12.9	13.2	13.2	12.9	13.2	13.1	12.8																	205
210	12.7	13	13.1	12.7	13	13	12.6																	210
215	12.4	12.8	12.9	12.5	12.8	12.9	12.4																	215
220	11.8	12.6	12.7	12.3	12.6	12.7	12.2																	220
225	10.9	12.3	12.5	11.9	12.4	12.6	12																	225
230	9.9	12.1	12.4	11.2	12.3	12.4	11.7																	230
235	8.9	11.7	12.2	10.3	12.1	12.3	11.1																	235
240	8	10.8	12	9.4	11.8	12.1	10.4																	240
245	7.7	9.9	11.8	8.4	11.3	11.9	9.5																	245
250	7.6	8.9	11.5	8.3	10.6	11.8	9																	250
255	6.4	7.9	10.5	8	9.6	11.6	9																	255
260		7.1	9.6	6.3	8.6	11.4	7.9																	260
265		7	8.6		7.8	10.6																		265
270			7.4		7.7	9.7																		270
275						8.6																		275
280						7																		280
285																								285
290																								290
295																								295
300																								300
305																								305
310																								310

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TN 264 ft



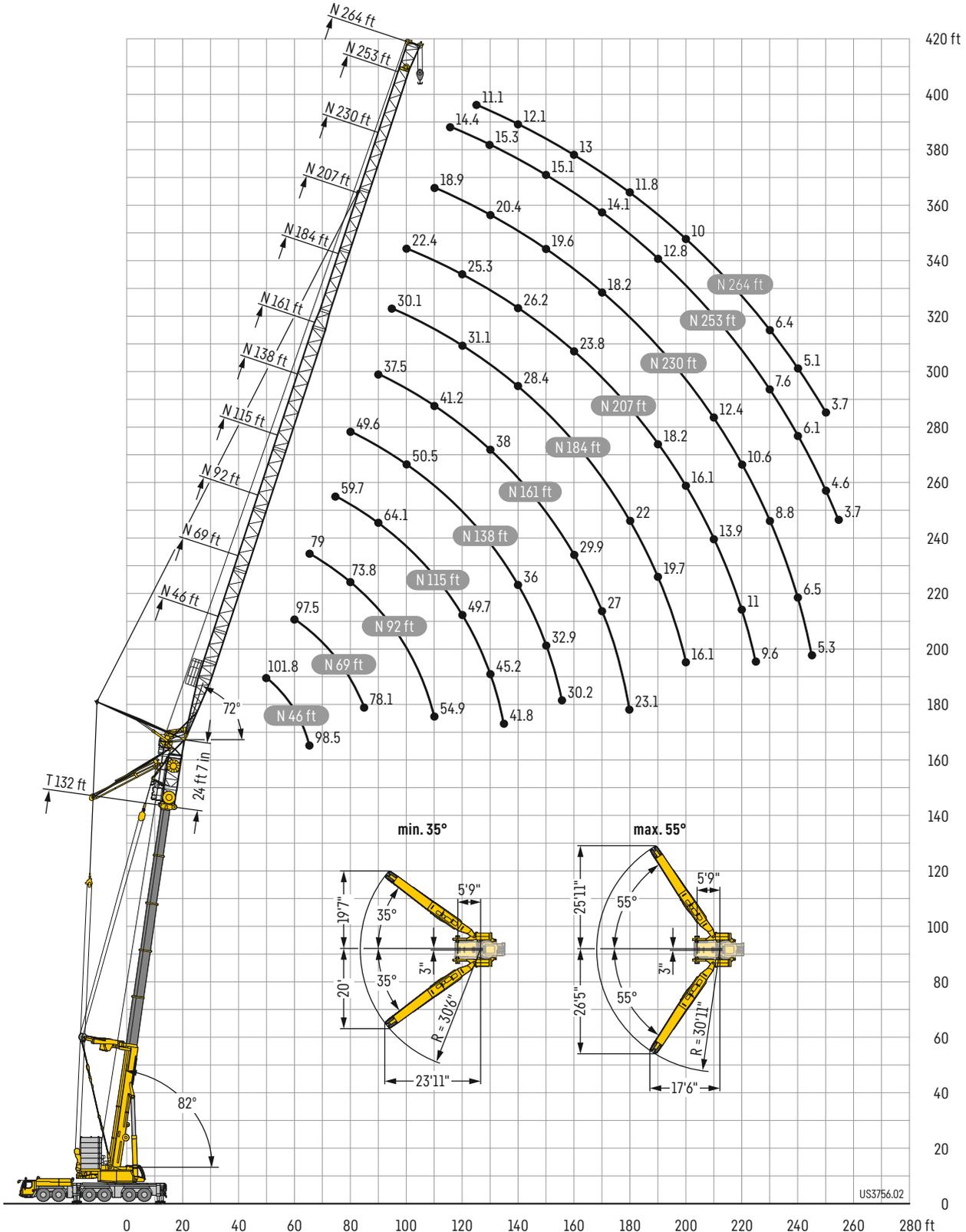
	49 ft + 13 ft 1 in*			65 ft + 13 ft 1 in*			82 ft + 13 ft 1 in*			98 ft + 13 ft 1 in*			115 ft + 13 ft 1 in*			132 ft + 13 ft 1 in*			
	N 264 ft																		
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
105				16															105
110				16															110
115				16															115
120	16.6			16															120
125	16.4			15.9															125
130	16.1			15.7															130
135	15.9			15.5															135
140	15.6			15.3															140
145	15.3			15	13.8														145
150	15.1			14.8	14														150
155	14.8	14.5		14.6	14														155
160	14.6	14.4		14.4	14														160
165	14.3	14.2		14.2	13.8														165
170	14.1	14		13.9	13.7														170
175	13.9	13.9		13.7	13.6														175
180	13.7	13.7		13.5	13.5	11.8													180
185	13.5	13.5		13.3	13.3	12	13	12.8											185
190	13.3	13.4		13.2	13.2	12.1	12.9	12.7	10.7	12.2	11.4								190
195	13.1	13.2	12.8	13	13.1	12.3	12.7	12.6	10.8	12.1	11.5	9.2	10.6	9.7					195
200	12.9	13	12.7	12.8	12.9	12.3	12.6	12.5	11	12	11.6	9.4	10.6	9.7					200
205	12.8	12.9	12.6	12.7	12.8	12.3	12.5	12.4	11.1	11.9	11.6	9.6	10.6	9.8	7.7				205
210	12.6	12.7	12.5	12.5	12.7	12.3	12.3	12.3	11.3	11.8	11.6	9.7	10.5	9.8	7.8	8			210
215	12.4	12.6	12.5	12.4	12.5	12.2	12.2	12.2	11.4	11.7	11.6	9.9	10.5	9.9	8	7.9	7.6	5.7	215
220	12	12.5	12.4	12.2	12.4	12.2	12.1	12.2	11.6	11.6	11.6	10	10.5	9.9	8.2	7.7	7.7	5.9	220
225	11.2	12.3	12.3	12	12.3	12.1	12	12.1	11.6	11.5	11.5	10.1	10.5	9.9	8.4	7.5	7.7	6.1	225
230	10.3	12.2	12.2	11.5	12.2	12	11.7	12	11.6	11.4	11.5	10.3	10.5	10	8.5	7.2	7.7	6.2	230
235	9.4	12	12.1	10.8	12.1	12	11.3	11.9	11.6	11.4	11.4	10.4	10.4	10	8.6	7	7.8	6.4	235
240	8.6	11.2	12	9.9	11.9	11.9	10.7	11.8	11.6	11.2	11.4	10.5	10.4	10.1	8.7	6.7	7.8	6.5	240
245	7.8	10.3	11.9	9	11.6	11.8	10	11.7	11.6	10.6	11.3	10.6	10.4	10.2	8.8	6.4	7.8	6.6	245
250	6.9	9.5	11.6	8.2	10.9	11.8	9.2	11.6	11.5	9.8	11.3	10.8	10.3	10.2	8.9	6.1	7.8	6.6	250
255	6.6	8.7	11	7.3	10.2	11.7	8.3	11.1	11.5	9	11.2	10.9	9.7	10.3	9	5.7	7.9	6.6	255
260	6.6	7.8	10.2	7.1	9.4	11.4	7.7	10.6	11.4	8.3	11.1	11	8.9	10.4	9.1	5.3	7.9	6.7	260
265	5.6	6.9	9.3	7.1	8.5	10.9	7.7	9.8	11.4	8	10.6	11	8.1	10.5	9.2	4.9	7.9	6.7	265
270	4	5.9	8.5	5.7	7.6	10.2	7	8.9	11.2	7.9	9.8	11	7.9	10.5	9.3	4.4	7.9	6.6	270
275		5.5	7.6		6.5	9.4	6	8	10.6	6.9	9.2	11	7.5	10.2	9.4	3.8	7.9	6.5	275
280			6.5		6	8.6		7	10.1		8.4	10.9	6.4	9.3	9.6	3.2	7.8	6.4	280
285			5.3			7.6		6.4	9.3		7.4	10.4		8.5	9.7		7.8	6.2	285
290						6.3			8.4		6.6	9.6		7.7	9.9		7.8	6.2	290
295									7.3			9.1		6.8	10		7.8	6.3	295
300												8.2			9.4			6.5	300
305																8.6		6.6	305
310																7.9		6.7	310
315																		6.9	315

* Adapter - Pièce d'adaptateur

Lifting heights

Hauteurs de levage

TYVEN



Angle of the Y-suspension between 35° and 55° depending on the extension condition of the individual telescopic sections
 Angle du haubannage Y entre 35° et 55°, en fonction de l'état de sortie des différents éléments télescopiques.

Lifting capacities Forces de levage

TYVEN 46 – 92 ft

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

	115 ft + 19 ft 4 in*		132 ft + 19 ft 4 in*				149 ft + 19 ft 4 in*		165 ft + 19 ft 4 in*	
	N 46 ft		82°		75°		82°		75°	
45	123.1									45
50	121.2									50
55	113.6									55
60	106.3									60
65										65
70										70
75										75
80										80
85										85

* Adapter - Pièce d'adaptateur

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			165 ft + 19 ft 4 in*			182 ft + 19 ft 4 in*			199 ft + 19 ft 4 in*		
	N 69 ft			82°			75°			82°			75°			82°		
55	100.7																	55
60	98.7																	60
65	93.1																	65
70	88.2																	70
75	83.6																	75
80	79.1	81.5																80
85	74.7	77.9																85
90		74.5																90
95		71																95
100		67.6																100
105																		105
110																		110
115																		115
120																		120
125																		125
130																		130
135																		135
140																		140
145																		145
150																		150

* Adapter - Pièce d'adaptateur

308,600 lb	220,500 lb
286,600 lb	198,400 lb
264,600 lb	176,400 lb
242,500 lb	

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			165 ft + 19 ft 4 in*			182 ft + 19 ft 4 in*			199 ft + 19 ft 4 in*		
	N 92 ft			82°			75°			82°			75°			82°		
60	75.2																	60
65	78																	65
70	79.8																	70
75	79.3																	75
80	76.6																	80
85	73																	85
90	69.6	70.2																90
95	66.4	67.5																95
100	63.2	64.7																100
105	59.9	62.1																105
110	55.9	59.6																110
115		57.2																115
120		54.7																120
125		52.2																125
130																		130
135																		135
140																		140
145																		145
150																		150
155																		155
160																		160
165																		165
170																		170

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TYVEN 115 – 138 ft

308.600 lb	220.500 lb
286.600 lb	198.400 lb
264.600 lb	176.400 lb
242.500 lb	

ASME B30.5

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			165 ft + 19 ft 4 in*			182 ft + 19 ft 4 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 115 ft															
70	63															70
75	66.7			59.7												75
80	66.9			66.1			62.1									80
85	65.6			66.1			61.8			53.6						85
90	64.2			64.1			61			56.5				51.1		90
95	62.2			61.5			58.6			55.1				51		95
100	59.6	59.3		59.1			57.1			53.3				49.5		100
105	57	57		56.5	51		55.4			51.9				47.3		105
110	54.7	55		54.1	53.8		53.6			50.4				45.4		110
115	52.4	52.9		51.9	51.6		51.7	48.6		48.8				44		115
120	50.2	50.8		49.7	49.7		49.7	49.1		47.2				43.2		120
125	45.7	49	45.6	47.4	47.9		47.7	47.3		45.4	44.2			41.7		125
130	41.7	47.1	46.4	45.2	46.1		45.7	45.6		43.8	42.7			40.5	39.7	130
135		45.5	45.1	41.8	44.4		43.7	44.1		42.1	41.2			39.2	38.5	135
140		43.8	43.6		42.8	41.8		42.5		40.3	39.9			38	37.3	140
145		42	41.8		41.1	40.6		41	34.6		38.6				36.2	145
150			40.2		39.4	39.4		39.3	37		37.4				35	150
155			38.8			38.2		37.9	35.9		36.1	27			33.9	155
160			37.7			36.9			34.8		34.9	32.2			32.8	160
165			36.5			35.7			33.7			31.3			31.7	165
170						34.4			32.6			30.1			27.1	170
175									31.5			29			26.2	175
180												28			25.4	180
185															24.4	185
190															23.5	190

* Adapter - Pièce d'adaptateur

308.600 lb	220.500 lb
286.600 lb	198.400 lb
264.600 lb	176.400 lb
242.500 lb	

ASME B30.5

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			165 ft + 19 ft 4 in*			182 ft + 19 ft 4 in*			
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
	N 138 ft															
75	50.3															75
80	52.3			49.6												80
85	53.6			52.4			50.3									85
90	53.6			52.7			49.8									90
95	53.5			52.3			49.6			33						95
100	53			50.5			49.3			46.2				43		100
105	51.9			48.5			48.8			45.8				42.6		105
110	49.9	49.1		46.4			48			45.7				41.9		110
115	47.9	47.6		44.4	43.8		46.1			43.7	43.8			41.1		115
120	45.9	45.8		42.6	42.1		44.3			42.2				39.9		120
125	43.9	44.1		40.9	40.6		42.6	41.2		40.7				38.3		125
130	42.1	42.5		39.3	39.1		41	39.8		39.3				37.3		130
135	40.3	41		37.6	37.8		39.3	38.4		37.8	35.5			36		135
140	37.8	39.5	38.5	36	36.4		37.7	37		36.4	34.2			34.7	31.3	140
145	34.2	38	37.4	34.4	34.9		36.2	35.6		35.2	33			33.5	30.8	145
150	33	36.7	36.2	32.9	33.6	32.6	34.7	34.4		33.9	32			32.3	30.2	150
155	28.6	35.2	35	30.2	32.3	31.6	32.9	33.1	23.6	32.7	31.1			31.1	29.6	155
160		33.8	33.9		31.1	30.6	31.1	31.9	30.4	31.5	30.3			30	28.7	160
165		32.1	32.9		29.9	29.5		30.7	29.3		29.5			28.9	27.7	165
170		30.3	31.7		28.7	28.5		29.4	28.4		28.7	24.1			26.8	170
175			30.7		27.3	27.5		28.2	27.4		27.9	23.5			25.9	175
180			29.5			26.6		27	26.5		26.9	22.9			25.1	180
185			28.3			25.7			25.7		25.9	22.4			24.2	185
190						24.7			24.8			21.8			20.9	190
195									23.8			21.3			20.1	195
200									22.9			20.7			19.1	200
205												20.1			18.3	205
210															17.5	210

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TYVEN 161 – 184 ft

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			165 ft + 19 ft 4 in*			
	82°	75°	68°	82°	75°	68°	N 161 ft			82°	75°	68°	
85	39.5												85
90	40.7			37.5									90
95	41.8			39.5			38.4						95
100	42.2			41.4			40.7			24.3			100
105	41.7			41.6			40.8			35.7			105
110	41.2			41.2			40.4			37.9			110
115	40.7			40.8			40.1			38.7			115
120	40.1	38.8		40.3			39.8			38.2			120
125	39.2	38.8		39.4	37.4		39.3			37.8			125
130	38	38.7		38	36.9		38.8			36.8			130
135	36.6	38.7		36.4	35.6		38	36		35.8			135
140	35.1	37.7		34.9	34.3		36.6	35.1		34.5			140
145	33.5	36.5		33.6	33		35.3	33.7		33.3	30.5		145
150	32	35.2	29.1	32.3	31.9		33.9	32.5		32.2	29.9		150
155	30.4	33.9	32.9	31.2	30.9		32.6	31.4		31	29.2		155
160	28.8	32.7	31.9	29.9	29.8	28.2	31.3	30.3		29.8	28.3		160
165	27	31.6	30.9	28.6	28.7	27.4	29.9	29.3		28.7	27.4		165
170	24.5	30.4	30.1	27	27.7	26.6	28.6	28.2	26.2	27.7	26.5		170
175	22.7	29.3	29.2	24.5	26.6	25.7	27.1	27.1	25.5	26.6	25.6		175
180		28	28.3	23.1	25.7	24.9	24.6	26.2	24.7	25.5	24.7	16.7	180
185		26.9	27.3		24.7	24.1		25.3	23.9	24.4	23.9	20.8	185
190		25	26.4		23.7	23.3		24.4	23.2		22.9	20.3	190
195		23	25.6		22.8	22.6		23.3	22.3		22.1	19.9	195
200			24.5			21.8		22.3	21.6		21.3	19.4	200
205			23.5			21			20.9		20.6	18.9	205
210			22.6			20.3			20.2			18.5	210
215						19.4			19.5			18	215
220									18.7			17.5	220
225												16.9	225
230												16.4	230

* Adapter - Pièce d'adaptateur

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			165 ft + 19 ft 4 in*			
	82°	75°	68°	82°	75°	68°	N 184 ft			82°	75°	68°	
90	29.4												90
95	30.8			30.1									95
100	31.5			31.2			25.8						100
105	31.9			32.2			27.5			21.1			105
110	31.9			32.2			29.8			27.5			110
115	31.4			31.7			30.6			30.3			115
120	30.8			31.1			30.2			30.3			120
125	30.1			30.5			29.8			30.2			125
130	29.4	29.3		29.9			29.2			29.8			130
135	28.7	29.2		29.2	28.7		28.7			28.9			135
140	27.8	28.9		28.4	28.6		28.1			27.8			140
145	27	28.5		27.6	28.4		27.5			26.7			145
150	26.1	28.1		26.7	27.8		26.8	26.8		25.6	18.1		150
155	25.3	27.5		25.9	26.8		26.1	26.6		24.6	22.1		155
160	24.6	26.9		25.1	25.9		25.3	26.1		23.6	21.3		160
165	23.7	26.2	25.4	24.3	25		24.3	25.1		22.7	20.5		165
170	22.9	25.5	25.3	23.5	24.1		23.2	24.3		21.8	19.7		170
175	22	24.8	25.1	22.8	23.3	21.9	22	23.4		21	18.9		175
180	21.3	24.1	24.9	22	22.5	21.1	20.7	22.5		20.1	18.2		180
185	20.6	23.4	24.5	21.1	21.6	20.5	19.4	21.7	19.7	19.2	17.4		185
190	19.2	22.7	24	19.7	20.8	19.9	18.1	21	19.1	18.4	16.8	10.8	190
195	17.5	22	23.5	18.2	20.2	19.4	16.7	20.2	18.4	17.5	16.1	13.8	195
200	15.9	21.3	23	16.1	19.4	18.7	15.6	19.4	17.8	16.7	15.5	13.3	200
205		20.7	22.3		18.6	18.1	13.6	18.7	17.3	15.8	15	12.8	205
210		20	21.6		17.9	17.5		17.9	16.7		14.3	12.4	210
215		17.8	20.9		17.1	16.8		17.2	16.1		13.7	11.9	215
220			20.2		16.2	16.3		16.4	15.5		13.1	11.4	220
225			19.4		15.7	15.7		15.6	14.9		12.5	11	225
230			18.5		15.1	15.1			14.4		11.8	10.7	230
235					14.5	14.5			13.8			10.3	235
240					13.8	13.8			13.2			9.9	240
245									12.6			9.5	245
250												9.2	250

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TYVEN 207 – 230 ft

115 - 149 ft TY VE 207 ft 360° 18'4" 21'8" 25'3" 308,600 lb 220,500 lb 286,600 lb 198,400 lb 264,600 lb 176,400 lb 242,500 lb ASME B30.5

	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			
	82°	75°	68°	N 207 ft			82°	75°	68°	
95	24									95
100	25.2			22.4						100
105	25.7			23.1						105
110	26.2			23.8			20.6			110
115	26.6			24.5			21.5			115
120	26.7			25.3			22.7			120
125	26.5			26			23.9			125
130	25.9			26.3			24.7			130
135	25.3			26.5			24.8			135
140	24.6	24.4		26.2			24.4			140
145	23.9	24.4		25.8	23.6		24			145
150	23.2	24.5		25.4	23.7		23.4	16.4		150
155	22.5	24.6		24.6	23.8		22.7			155
160	21.7	24.5		23.8	23.5		22	22.1		160
165	20.8	23.9		23	22.8		21.2	22.3		165
170	20	23.1		22.1	22		20.3	22.1		170
175	19.1	22.2		21.2	21.3		19.5	21.5		175
180	18.3	21.5	20.3	20.2	20.6		18.6	20.7		180
185	17.3	20.8	19.7	19.2	19.9	18.4	17.7	20		185
190	16.4	20.1	19	18.2	19.3	17.9	16.7	19.4		190
195	15.4	19.4	18.4	17.2	18.6	17.4	15.7	18.7		195
200	14.5	18.7	17.9	16.1	17.9	16.8	14.5	18	16.6	200
205	13.5	18	17.4	15.1	17.2	16.2	13.5	17.3	16.1	205
210	12.8	17.4	16.8	13.9	16.6	15.7	12.6	16.7	15.5	210
215	11.4	16.7	16.2	12.7	16.1	15.2	11.5	16.1	14.6	215
220	10.6	16	15.7	11	15.5	14.8	10.2	15.5	14.1	220
225		15.3	15.1	9.6	14.9	14.2	8.5	14.9	13.6	225
230		14.6	14.6		14.2	13.8		14.3	13.1	230
235		13.8	14.1		13.6	13.3		13.7	12.6	235
240		12.6	13.5		13	12.8		13.1	12.2	240
245			13		11.5	12.4		12.4	11.8	245
250			12.4			11.9			11.3	250
255			11.7			11.4			10.9	255
260						10.9			10.5	260
265									10.1	265

* Adapter - Pièce d'adaptateur

115 - 149 ft TY VE 230 ft 360° 18'4" 21'8" 25'3" 308,600 lb 220,500 lb 286,600 lb 198,400 lb 264,600 lb 176,400 lb 242,500 lb ASME B30.5

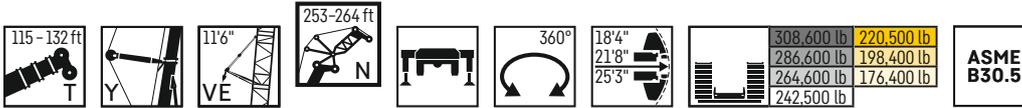
	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			149 ft + 19 ft 4 in*			
	82°	75°	68°	N 230 ft			82°	75°	68°	
105	18.8									105
110	19.2			18.9						110
115	19.5			19.3						115
120	19.7			19.8			13.2			120
125	20.1			20.2			13.7			125
130	20.1			20.4			14.3			130
135	19.9			20.3			14.7			135
140	19.6			20.2			15.2			140
145	19.1			19.9			15.7			145
150	18.8	18.3		19.6			16.1			150
155	18.6	18.3		19.3	18		16.6			155
160	18.2	18.2		19	17.7		16.8			160
165	17.7	18.1		18.7	17.7		16.1			165
170	17.2	18		18.2	17.7		15.4	13.3		170
175	16.5	17.8		17.7	17.6		14.7	12.7		175
180	15.9	17.6		17	17.4		14	12.2		180
185	15.3	17.4		16.3	17.3		13.5	11.7		185
190	14.6	17.1	15.5	15.6	17.2		12.8	11.2		190
195	13.9	16.8	15.5	14.8	17		12.2	10.8		195
200	13.2	16.3	15.4	14	16.7	14.8	11.7	10.4		200
205	12.5	15.9	15.4	13.2	16.2	14.7	11.2	10		205
210	11.9	15.5	15.3	12.4	15.7	14.4	10.8	9.6	7.8	210
215	11.1	15.1	15	11.5	15.2	13.9	10.3	9.3	7.5	215
220	10.4	14.5	14.6	10.6	14.6	13.5	9.6	9	7.2	220
225	9.6	14.1	14.1	9.7	14.1	13	8.7	8.6	7	225
230	8.7	13.6	13.6	8.8	13.6	12.4	7.8	8.3	6.7	230
235	7.7	13.1	13.1	7.9	13.1	12.2	7	8	6.5	235
240	6.5	12.6	12.7	6.5	12.5	11.8	6.1	7.7	6.3	240
245	5.6	12.1	12.3	5.3	12	11.4	5.2	7.3	6	245
250		11.6	11.8		11.5	11	3.7	7	5.8	250
255		11.2	11.3		11	10.7	2.6	6.7	5.5	255
260		10.5	10.9		10.6	10.3		6.4	5.3	260
265			10.6		10	10		6.1	5	265
270			10.2			9.7		5.8	4.8	270
275			9.7			9.4		5.5	4.6	275
280			9.2			9.1			4.5	280
285						8.6			4.1	285
290									3.8	290

* Adapter - Pièce d'adaptateur

Lifting capacities

Forces de levage

TYVEN 253 - 264 ft



	115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			115 ft + 19 ft 4 in*			132 ft + 19 ft 4 in*			
	N 253 ft						N 264 ft						
	82°	75°	68°	82°	75°	68°	82°	75°	68°	82°	75°	68°	
115	13.5			14.4									115
120	13.8			14.7			11						120
125	14.1			15			11.2			11.1			125
130	14.3			15.3			11.4			11.5			130
135	14.5			15.6			11.6			11.8			135
140	14.6			15.7			11.7			12.1			140
145	14.6			15.3			11.8			12.3			145
150	14.5			15.1			11.8			12.6			150
155	14.4			14.8			11.8			12.8			155
160	14	14.4		14.6			11.7			13			160
165	13.6	14.3		14.3	14.1		11.4	11.8		12.9			165
170	13.3	14.2		14.1	14.1		11	12		12.6			170
175	13.1	14		13.8	14		10.7	12.2		12.2	11.6		175
180	12.7	13.8		13.5	13.9		10.5	12.4		11.8	11.7		180
185	12.3	13.6		13.2	13.6		10.3	12.6		11.4	11.9		185
190	11.9	13.4		12.8	13.5		10	12.6		11	12.1		190
195	11.3	13.3		12.3	13.3		9.5	12.6		10.5	12.3		195
200	10.8	13.1		11.7	13.2		9.1	12.5		10	12.4		200
205	10.3	12.9	12.4	11.1	13		8.6	12.4		9.4	12.4		205
210	9.7	12.8	12.4	10.4	12.9	9.5	8.1	12.3	10.3	8.8	12.3		210
215	9.1	12.6	12.4	9.7	12.7	12	7.6	12.1	10.5	8.2	12.2		215
220	8.5	12.4	12.3	9.1	12.5	12	7	12	10.7	7.7	12	9.9	220
225	7.9	12.3	12.2	8.4	12.4	11.8	6.5	11.9	10.9	7	11.9	10.1	225
230	7.2	12.1	12.1	7.6	12.3	11.4	5.9	11.8	11.1	6.4	11.8	10.3	230
235	6.6	12	12	6.9	12.1	11	5.4	11.7	11.1	5.8	11.4	10.2	235
240	5.9	11.8	11.6	6.1	11.6	10.7	4.8	11.6	10.9	5.1	11	10	240
245	5.3	11.7	11.2	5.3	11.2	10.4	4.2	11.2	10.6	4.4	10.7	9.7	245
250	4.6	11.4	10.9	4.6	10.9	10.1	3.6	10.8	10.2	3.7	10.3	9.4	250
255	3.8	11	10.6	3.7	10.5	9.8	3	10.2	9.9		10	9.2	255
260	2.6	10.6	10.2		10.2	9.5	2.3	9.7	9.6		9.6	8.9	260
265		10.3	9.9		9.8	9.3		9.1	9.3		9.3	8.6	265
270		9.6	9.6		9.4	9		8.5	9		9	8.4	270
275		8.7	9.3		9.1	8.7		7.8	8.7		8.6	8.1	275
280		7.8	9		8.7	8.4		7	8.5		8.3	7.9	280
285		6	8.6		8.3	8.2		6.2	8.2		8	7.6	285
290			8.3		6.9	7.9		5.6	7.9		7.2	7.4	290
295			7.9			7.6		5	7.6		6.2	7.1	295
300			7.5			7.3			7.3		5	6.8	300
305						7			6.9			6.5	305
310									6.6			6.3	310
315												6	315
320												5.7	320

* Adapter - Pièce d'adaptateur

Equipment

Crane carrier

Frame	Self-manufactured, weight-optimized and torsion resistant box-type design of high-tensile structural steel.
Outriggers	4-point supporting system, hydraulically telescopable into horizontal and vertical direction. Automatic levelling of crane. Electronic inclination indicator.
Engine	8-cylinder Diesel, make Liebherr, watercooled, output 455 kW (619 h.p.), max. torque 2262 lb-ft. Exhaust emissions to (EU 2016/1628 and EPA/CARB or ECE-R96, spark arrestor. Fuel reservoir: 214 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 2, 3 and 5 are equipped with planetary gears, all driven axles with transverse differential locks.
Suspension	All axles are mounted on hydropneumatic suspension – “Niveumatik suspension” and are lockable hydraulically.
Tyres	12 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. Parking brake: Spring brake actuator, acting on the wheels of the 2 nd to 6 th axle. Additional brakes: exhaust flap brake, intarder in gearbox. Telma Eddy current brake (optional).
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 drive	Mechanical drive of the crane hydraulic from the chassis. Variable axial piston pumps with servo control and power regulation.
Control	Two self-centering control levers (joy-sticks). Pedal switches for telescoping. Infinitely variable crane motions through displacement control of the hydraulic pumps. Additional working speed control by variation of the Diesel engine speed.
Hoist gear	Axial piston variable displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake. Actuation by closed regulated oil circuit.
Luffing gear	1 differential ram with pilot-controlled brake valve.
Slewing gear	2 axial piston constant motors, planetary gear, spring loaded multiple disk brake. Actuation by closed regulated oil circuit.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
Telescopic boom	1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 49 ft to 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 23 ft – 149 ft Adjustment 0°; 10°; 20°; 40°
NZF	Fixed lattice jib 23 ft – 149 ft Hydraulic adjustment 0° – 40°.
N	Luffing fly jib 46 ft – 264 ft
H	Auxiliary jib 4 ft 7 in
Additional counterweight	4 additional counterweight slabs of 22,050 lb each for a total counterweight of 308,700 lb.
2nd hoist gear	For 2-hook operation or for operating the luffing lattice jib.
Tyres	12 tyres, size 525/80 R 25 (20.5 R 25).
Drive 12 x 8	Additional drive of the 4 th axle, axle 4 with transverse differential lock.
Other items of equipment available on request.	

Équipement

Châssis porteur

Cadre	Construction en caisse résistante à la torsion et optimisée en poids réalisée par Liebherr en acier de construction à grain fin très rigide.
Calage	Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Nivellement automatique du calage. Indicateurs électroniques d'inclinaison.
Moteur	Moteur diesel, 8 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 455 kW (619 ch), couple max. 2262 lb-ft. Emissions des gaz d'échappement conformes aux directives (EU) 2016/1628 et EPA/CARB ou ECE-R.96, pare-étincelles. Capacité du réservoir à carburant: 214 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 2, 3 et 5 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal.
Suspension	Suspension hydropneumatique «Niveumatik» - sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.
Pneumatiques	12 pneus. Taille: 445/95 R 25 (16.00 R 25).
Direction	2 circuits avec direction assistée hydraulique. Direction active des essieux arrière et dépendante de la vitesse, programmes de direction spéciaux pour les différents modes de déplacement.
Freins	Freins de service : servofrein à air comprimé, tous les essieux sont munis de freins à disque, à 2 circuits. Frein à main : ressort accumulé agissant sur les roues des essieux 2 à 6. Freins auxiliaire : par clapet sur échappement, ralentisseur monté sur boîte de vitesse. Frein Telma (option).
Cabine	Spacieuse cabine, traitement anticorrosion, équipement «grand confort», suspension par silentbloks, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts.

Partie tournante

Cadre	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
Entraînement	Entraînement mécanique de l'hydraulique de la grue par le châssis de la grue. Pompes réglables à pistons axiaux avec servocommande et réglage de puissance.
Commande	2 leviers à 4 directions avec rappel automatique au point mort. Commande des mouvements progressive en continu par variation de l'inclinaison des pompes et augmentation du régime moteur.
Mécanisme de levage	Moteur hydraulique à cylindrée variable, treuil avec réducteur planétaire à frein d'arrêt à lamelles intégrées, en circuit hydraulique ferme.
Mécanisme de relevage	1 vérin différentiel avec clapet de frein commandé.
Dispositif de rotation	2 moteur à débit constant et pistons axiaux, réducteur planétaire, frein d'arrêt à ressort commandé par ressort en circuit hydraulique ferme.
Cabine de grue	Construction en tôle d'acier entièrement zinguée avec peinture par poudrage et cuisson au four, avec glaces de sécurité, appareils de commande et de contrôle, équipement confortable. Cabine inclinable vers l'arrière.
Dispositif de sécurité	Contrôleur de charge, «LICCON2», système test, limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.
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. Courant continu 24 Volts.

Équipement 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	Fléchette treillis fixe 23 ft - 149 ft Positionnement 0°; 10°; 20°; 40°
NZF	Fléchette treillis fixe 23 ft - 149 ft Réglage hydraulique 0° - 40°.
N	Fléchette treillis à volée variable 46 ft - 264 ft
H	Fléchette auxiliaire 4 ft 7 in
Contrepoids complémentaire	4 blocs latéraux de suspension de 22,050 lb pour un contrepoids total de 308,700 lb.
2ème mécanisme de levage	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	Essieu 4 est entraîné additionnellement, essieux 4 moteur avec différentiel transversal.

Autres équipements supplémentaires sur demande.

Description of symbols

Explication des symboles



Max. capacity
Capacité max.



Max. supporting forces
Forces d'appui max.



Counterweight radius
Rayon de contrepoids



Max. hoist height
Hauteur de levage max.



Outriggers front
Calage avant



Standard
Norme



Max. radius
Portée max.



Outriggers rear
Calage arrière



Telescopic boom
Flèche télescopique



Tyres
Pneumatiques



Crane superstructure
Partie tournante de la grue



Guying system for telescopic boom Y
Haubanage de flèche Y



Hookblock/Capacity
Moufle à crochet/Capacité de charge



infinitely variable
en continu



Telescopic boom extension with eccentric
Rallonge fleche telescopique avec axe excentrique



No. of sheaves
Poulies



Rope diameter
Diamètre



Fixed / hydraulic lattice jib
Fléchette treillis fixe / hydraulique



No. of lines
Brins



Rope length
Longueur du câble



Luffing fly jib
Fléchette treillis à volée variable



Weight
Poids



Max. single line pull
Effort au brin maxi.



Crane carrier
Châssis porteur



Hoist gear
Treuil de levage



Driving speed
Vitesse de translation



Slewing speeds
Vitesse d'orientation



Gradability
Aptitude à gravir les pentes



Boom length
Longueur de la flèche



Transmission
Boîte de vitesse



Boom position
Position de la flèche



Gear
Vitesse



Counterweight
Contrepoids



Onroad gear
Vitesse de route



Outriggers
Calage

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. Working radii are measured from the slewing centre.
7. The stated lengths of the telescopic boom are maximum values and may deviate slightly.
8. Subject to modification of lifting capacities.
9. Lifting capacities above 343,26 kip only with additional special equipment.
10. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.
11. 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 calculées à partir de l'axe de rotation.
7. Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.
8. Charges données sous réserve de modification.
9. Forces de levage plus de 343,26 kip seulement avec moufle équipement supplémentaire.
10. 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.
11. Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

MyLiebherr

Our MyLiebherr portal is the easy way for you to access Liebherr's digital service world.
Take advantage of extensive basic and additional services for your mobile and crawler cranes.

Avec notre portail MyLiebherr, accédez facilement à l'univers numérique du service de Liebherr.
Bénéficiez dès maintenant d'un service global et de prestations complémentaires pour vos grues mobiles et sur chenilles.



One portal, all services

MyLiebherr



Planning

Crane Finder



Operations

Performance



Planning

Crane Planner 2.0



Operations

Documents



Maintenance

Spare Parts Catalogue



Planning

LICCON Work Planner



Training

Digital Crane Operator



Maintenance

Parts Shop

Proposition 65



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

Subject to modification · Sous réserve de modifications

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

MyLiebherr



Printed in Germany (3)
lwe-tg-304-02-us10-2025