

Mobile Crane
Grue mobile**Technical Data**
Caractéristiques techniques**LTM 1750-9.1****LIEBHERR**



Sales · Service · Rental

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LTM 1750-9.1



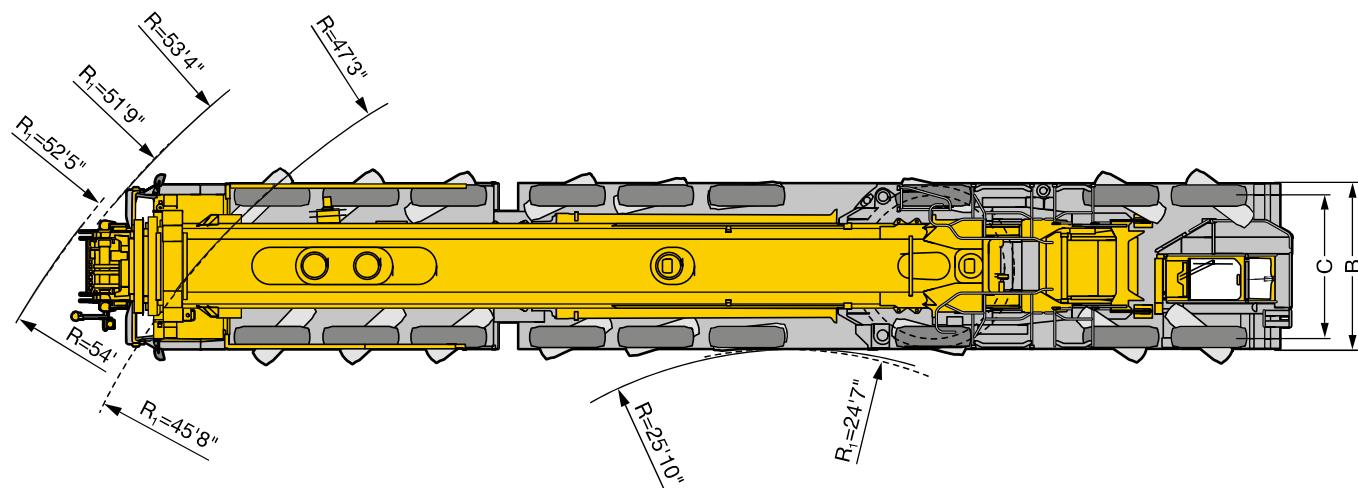
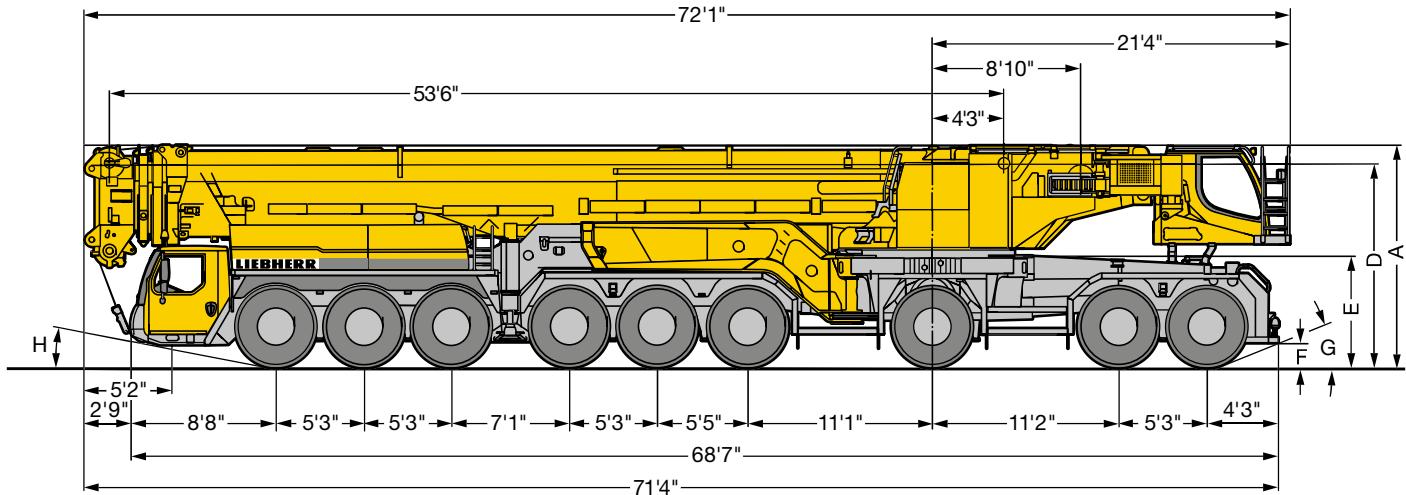
This document is for informational purposes only. All specifications should be verified against operators manuals provided with the equipment.



Table of content
Tables des matières**Technical Data · Caractéristiques techniques**

Dimensions · Encombrement	
Operation condition · État de marche	
Transportation plan · Plan de transport	A
Boom/jib combinations · Configurations de flèche	
Weights, Working speeds · Poids, Vitesses	
T	B
TY	C
TNZF	D
TYVENZF	E
TYV2ENZF	F
TYV23ENZF	G
TYV23E3NZF	H
TN	I
TYVEN	J
TYV2EN	K
Wind power applications · Applications de centrale éolienne	
Equipment · Equipement	
Description of symbols · Explication des symboles	L
Remarks referring to load charts · Remarques relatives aux tableaux des charges	



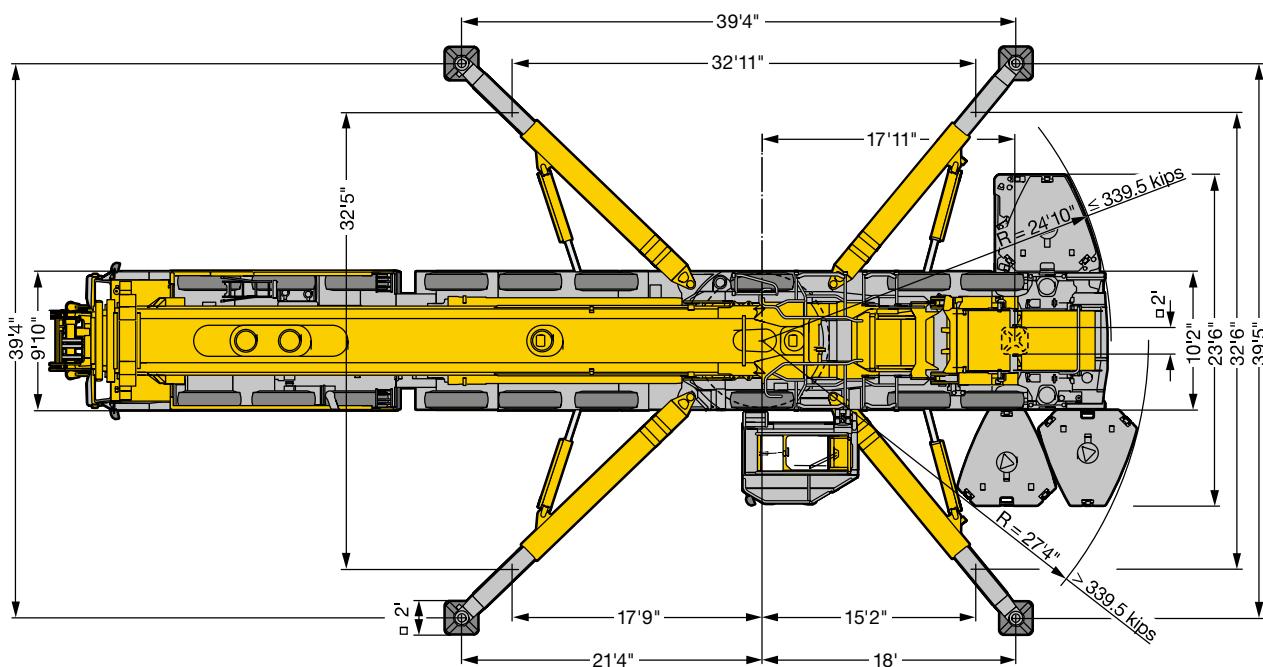
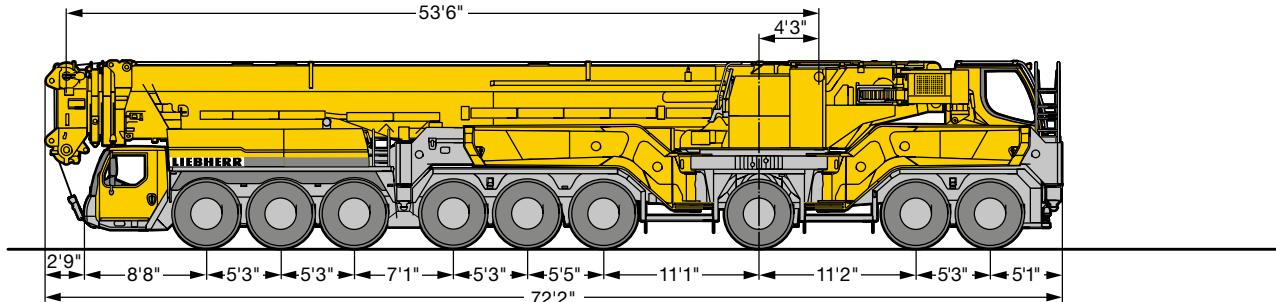
A
**Dimensions - Operating on road
Encombrement - Déplacement sur route**

US2495.02
R_i = All-wheel steering · Direction toutes roues

	Dimensions · Encombrement								
	A	A 6" *	B	C	D	E	F	G	H
385/95 R 25 (14.00 R 25)	13'	12'7"	9'10"	8'5"	11'10"	6'4"	1'2"	17°	8°
445/95 R 25 (16.00 R 25)	13'1"	12'9"	9'10"	8'4"	12'	6'6"	1'4"	19°	10°
525/80 R 25 (20.5 R 25)	13'1"	12'9"	10'2"	8'5"	12'	6'6"	1'4"	19°	10°

** lowered · abaissé*
LTM 1750-9.1

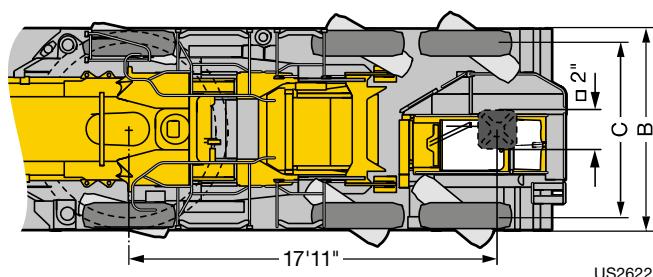
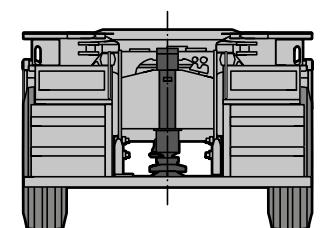
Dimensions - Procédure on site Encombrement - Déplacement sur le chantier

A



US2519.01

Additional support chassis rear end Stabilisateur additionnel arrière du véhicule

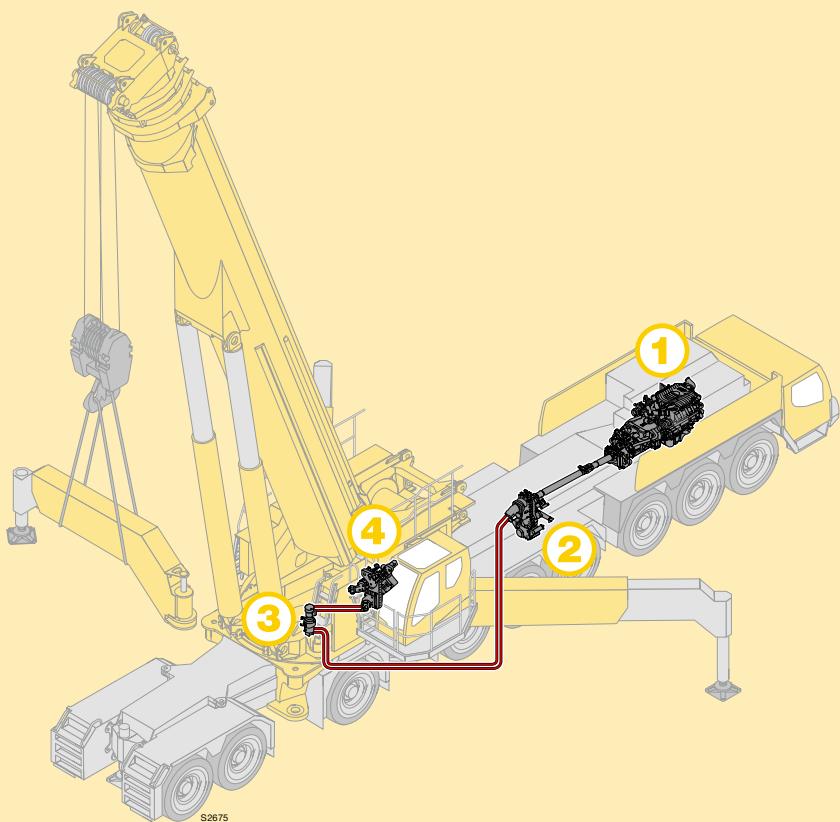


US2622

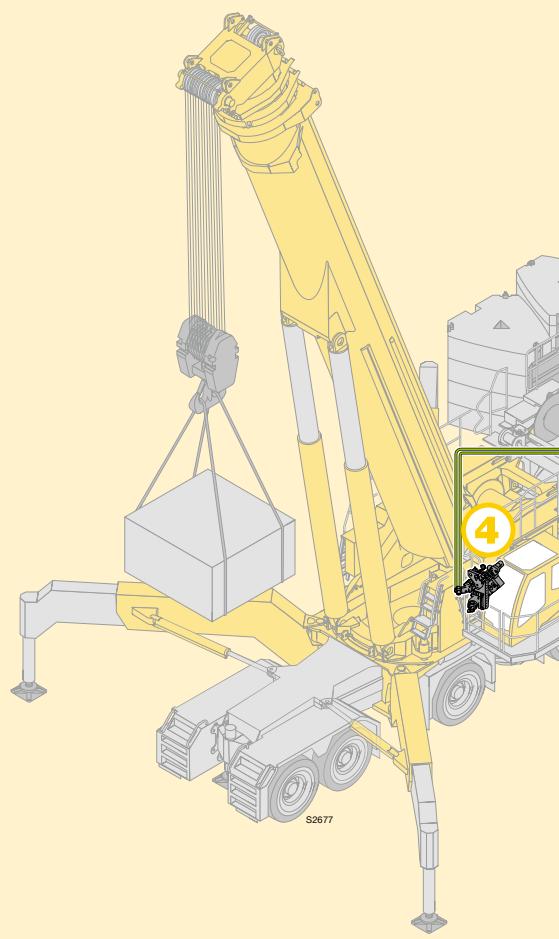
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Operation condition État de marche

■ Erection operation · Mode de montage



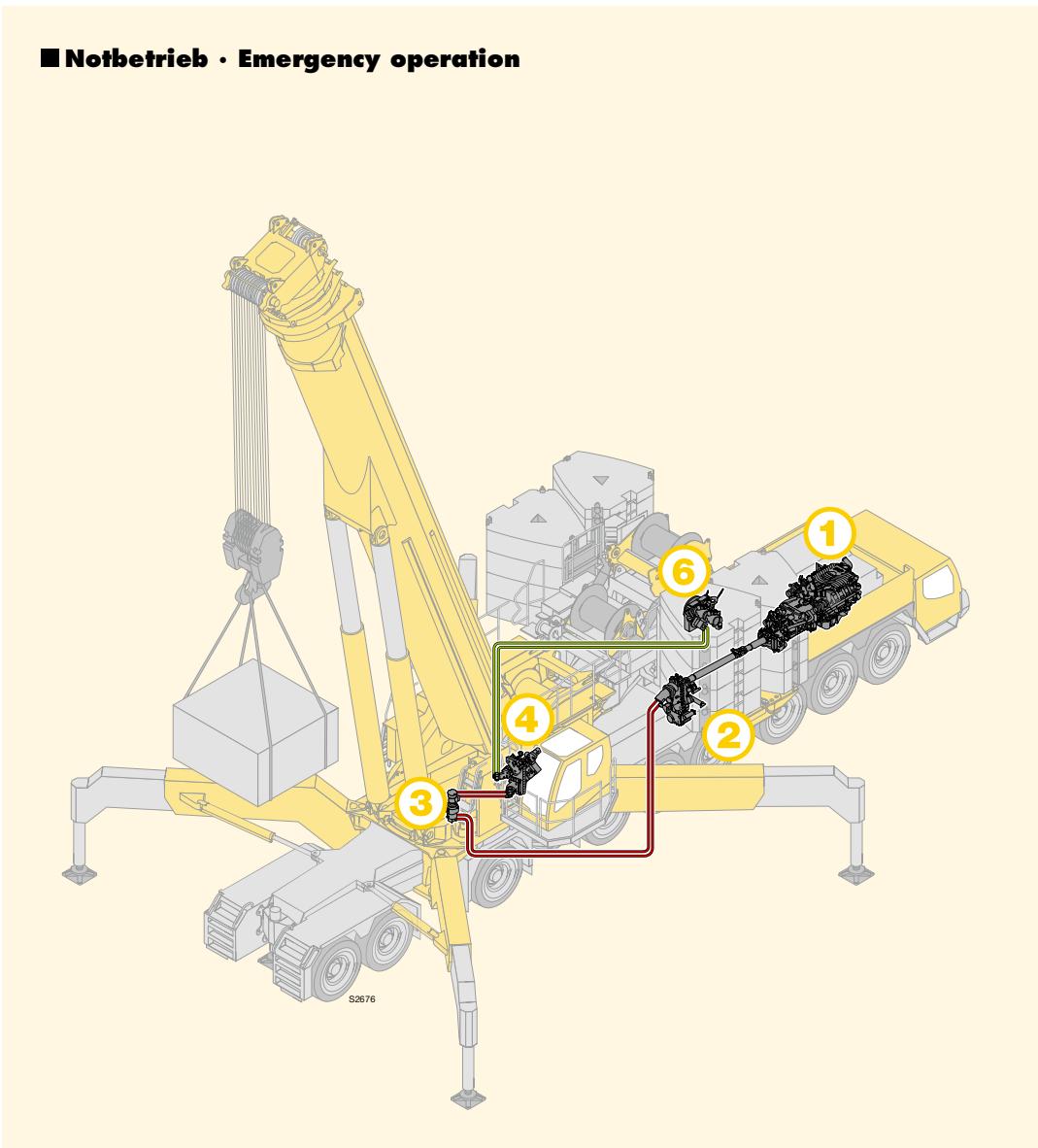
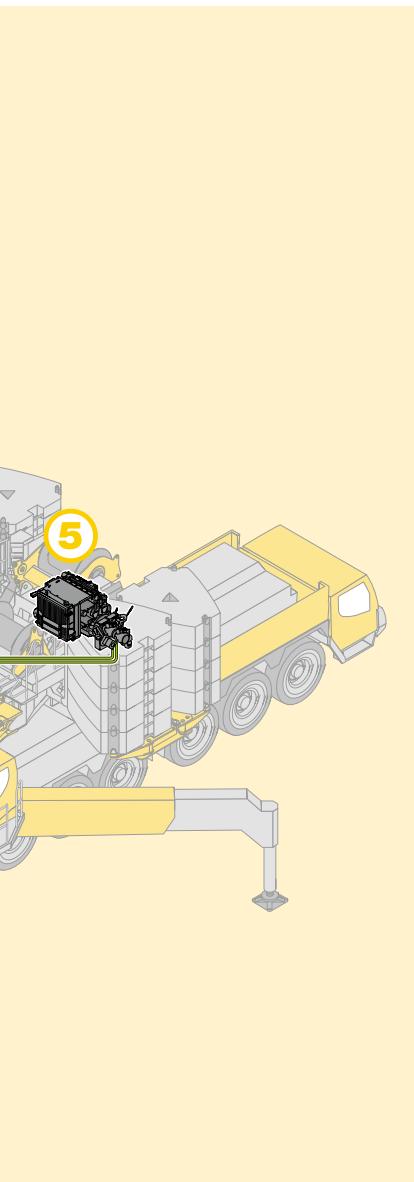
■ Working operation · Mode de travail



1 Diesel engine chassis
Moteur Diesel, châssis

2 Hydraulic pump distribution gearbox
for drive pump assembly
Pompe hydraulique, engrenage
distributeur pour l'entraînement du
groupe moto-pompe

3 Hydraulic swivel
Joint tournant



4 Pump assembly for drive:
 - Winch 1, slewing gear, telescoping cylinder, luffing cylinder

Groupe moto-pompe pour l'entraînement :
 - Treuil 1, mécanisme d'orientation, cylindre de télescopage, vérin de relevage

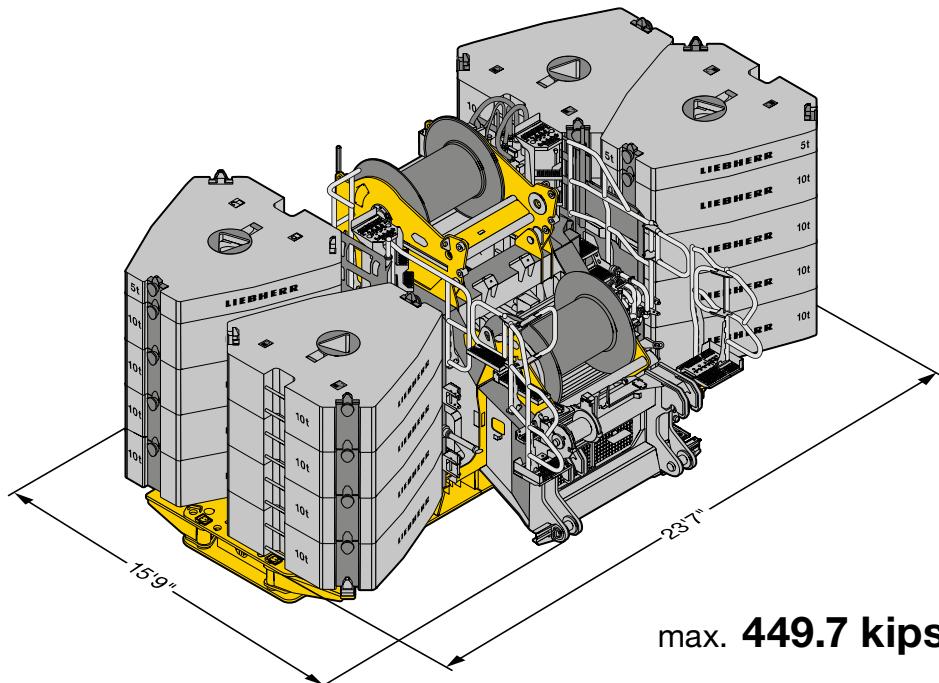
5 Diesel engine superstructure for drive:
 - Pump assembly, winch 2, winch 3

Moteur Diesel, partie tournante pour l'entraînement :
 - Groupe moto-pompe, treuil 2, treuil 3

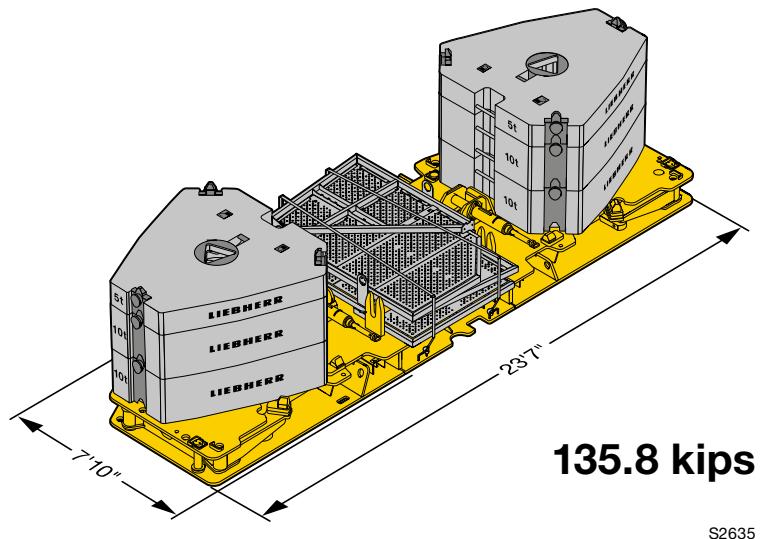
6 Drive winch 2 and winch 3 by pump assembly

Entraînement, treuil 2 et treuil 3 par le groupe moto-pompe

A

**Dimensions - Counterweight
Encombrement - Contrepoids**


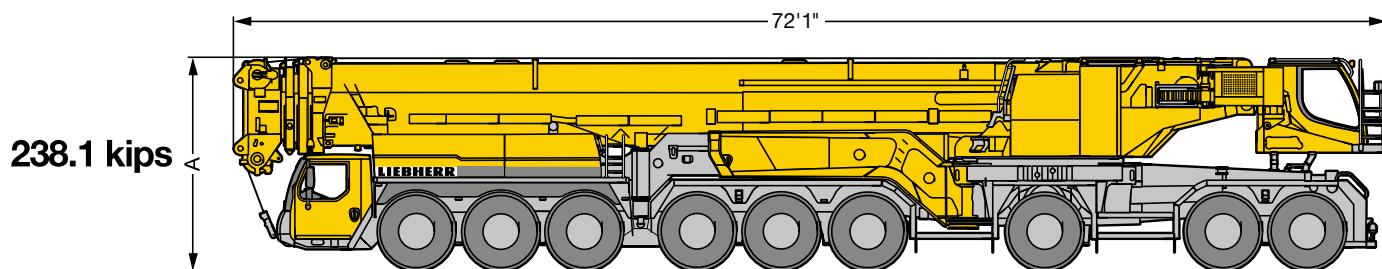
US2634



S2635

Transportation plan Plan de transport

A

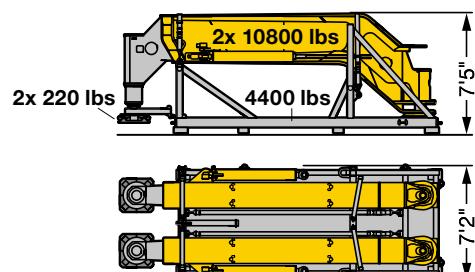


Folding outriggers front
Poutre rabattable avant

26440 lbs

Folding outriggers rear
Poutre rabattable arrière

24910 lbs

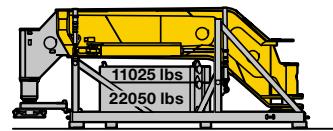
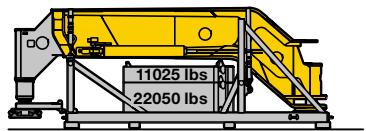


with 33070 lbs counterweight
avec contrepoids 33070 lbs

59515 lbs

with 33070 lbs counterweight
avec contrepoids 33070 lbs

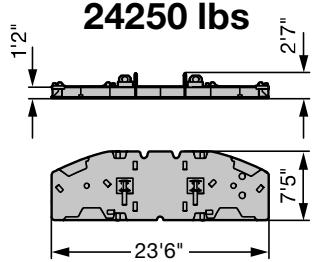
57985 lbs



Base plate
Plaque d'appui

24250 lbs

Base plate with erection platform
Plaque d'appui avec plateforme de montage



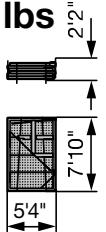
25575 lbs

Erection platform
Plateforme de montage

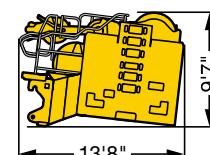
1325 lbs

Ballast frame with winch 2,
winch 3, adjustment block and engine
Bâti de contrepoids avec treuil 2,
treuil 3, palonnier de renvoi et moteur

52030 lbs



Width/largeur 9'7"
13'8"
US2620.01



A

Boom/jib combinations Configurations de flèche

- T** Telescopic boom · Flèche télescopique
- N** Luffing fly jib · Fléchette treillis à volée variable
- F** Fixed lattice jib · Fléchette treillis fixe
- NZF** Hydraulically adjustable lattice jib · Fléchette treillis à bras réglable hydrauliquement
- H** Auxiliary jib · Fléchette auxiliaire


TH
TYH
TFH
TNZFH
TYFH
TYNZFH
B
C
D

Boom/jib combinations Configurations de flèche

A

Y Y-shaped guying system · Haubanage Y

VE Telescopic boom extension 16.4 ft + Eccentric · Rallonge de flèche télescopique 16.4 ft + Axe excentrique



TYVEFH
TYVENZFH

 E

TYV2EFH
TYV2ENZFH

 F

TYV23EFH
TYV23ENZFH

 G

TYV23E3FH
TYV23E3NZFH

 H

Boom/jib combinations Configurations de flèche

V2 Telescopic boom extension 32.8 ft · Rallonge de flèche télescopique 32.8 ft

V3 Telescopic boom extension 16.4 ft · Rallonge de flèche télescopique 16.4 ft



TNH

TYVENH

TYV2ENH

S2607.01



I



J



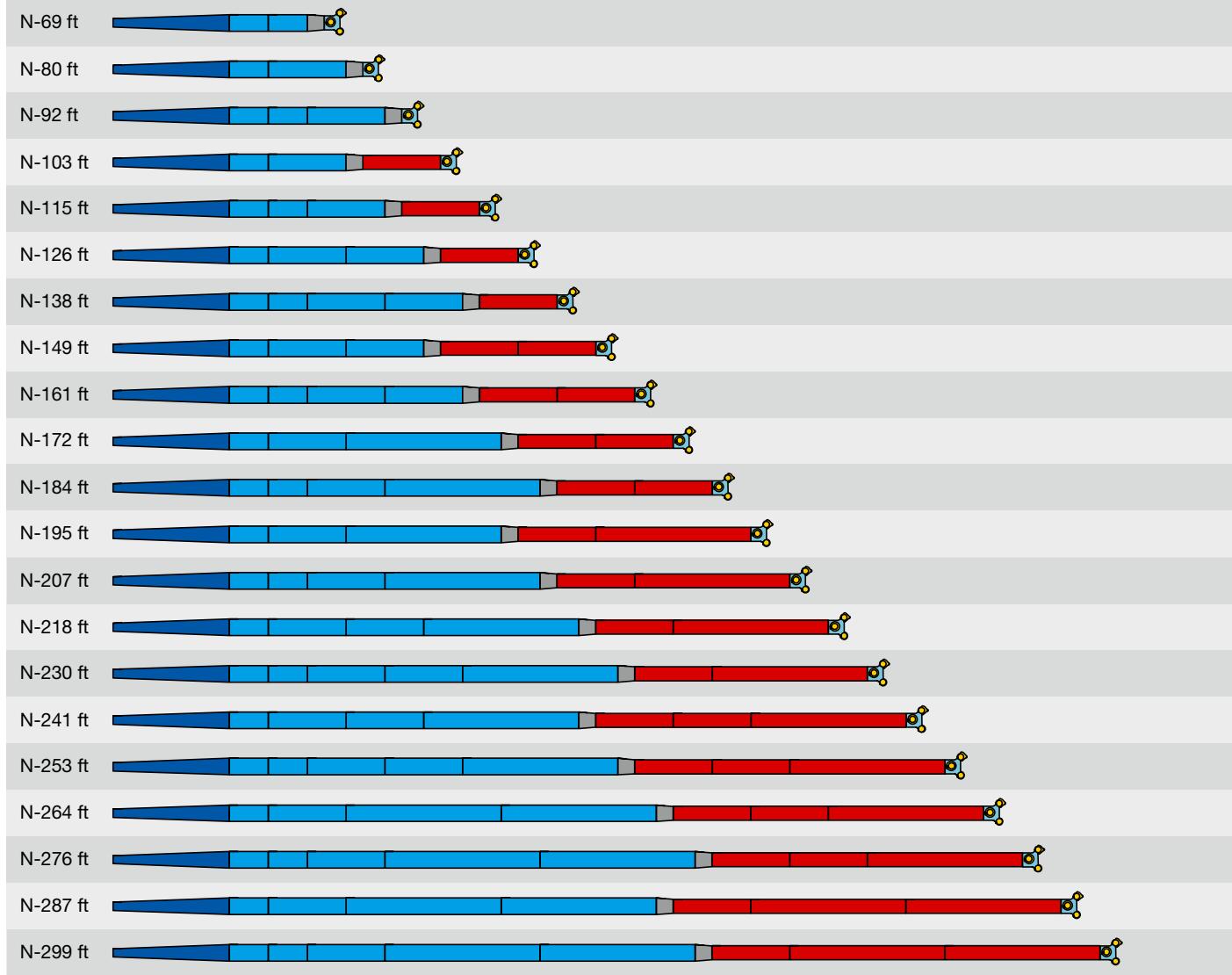
K

ITM 1750-9.1

Boom/jib combinations – Luffing fly jib

Configurations de flèche – Fléchette à volée variable

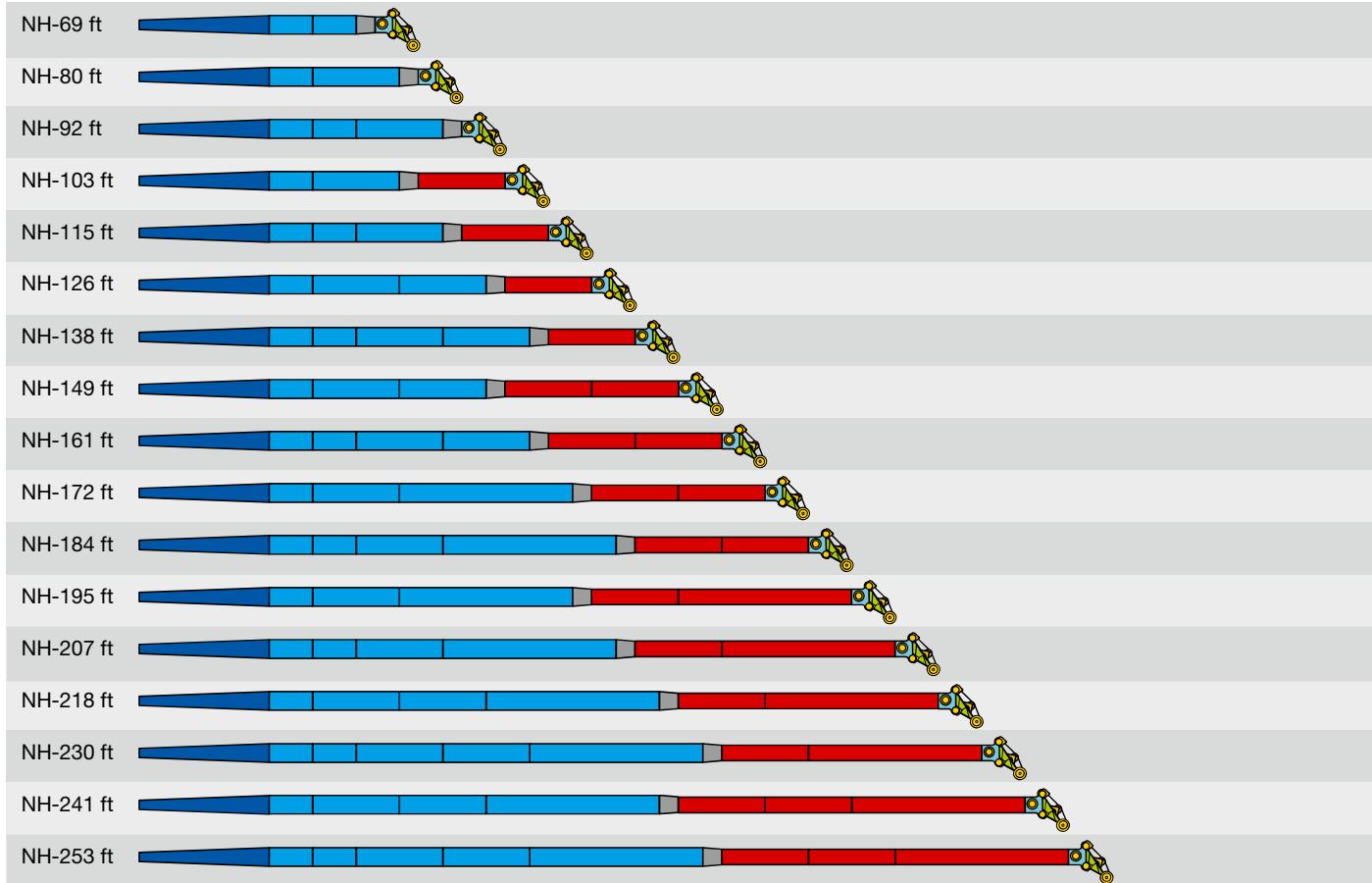
A



A

Boom/jib combinations – Luffing fly jib

Configurations de flèche – Fléchette à volée variable



34'5" N-shaped base section · Élément de base N



NA-11'6"



NA-23'



NA-46'



4'11" NM reduction section · Élément réducteur NM



NI-23'



NI-46'



6'7" N head section · Élément de tête N



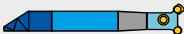
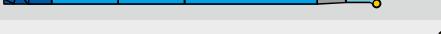
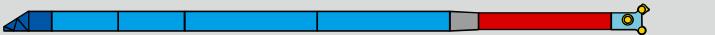
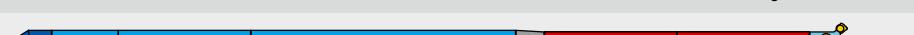
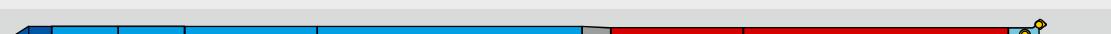
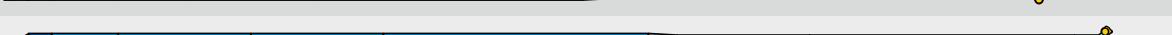
5'7" H auxiliary jib · Fléchette auxiliaire H

US2605

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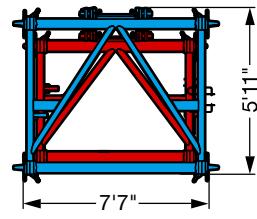
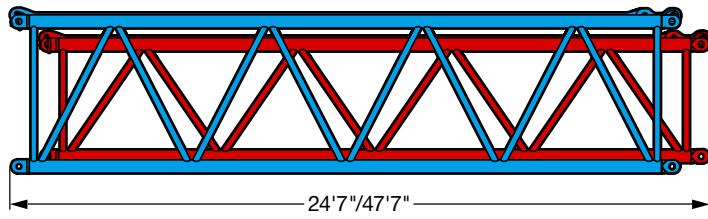
Boom/jib combinations – Fixed fly jib Configurations de flèche – Fléchette fixe

A

F-20 ft	
F-31 ft	
F-43 ft	
F-54 ft	
F-66 ft	
F-77 ft	
F-89 ft	
F-100 ft	
F-112 ft	
F-123 ft	
F-135 ft	
F-146 ft	
F-157 ft	
F-169 ft	
F-180 ft	
F-192 ft	
F-203 ft	

After the TF-adapter a 11'6" long NA-extension has to be installed. (Exception F-20 ft) · un élément NA de 11'6" doit être monté en bout de l'adaptateur TD. (Exception F-20 ft)

US2516

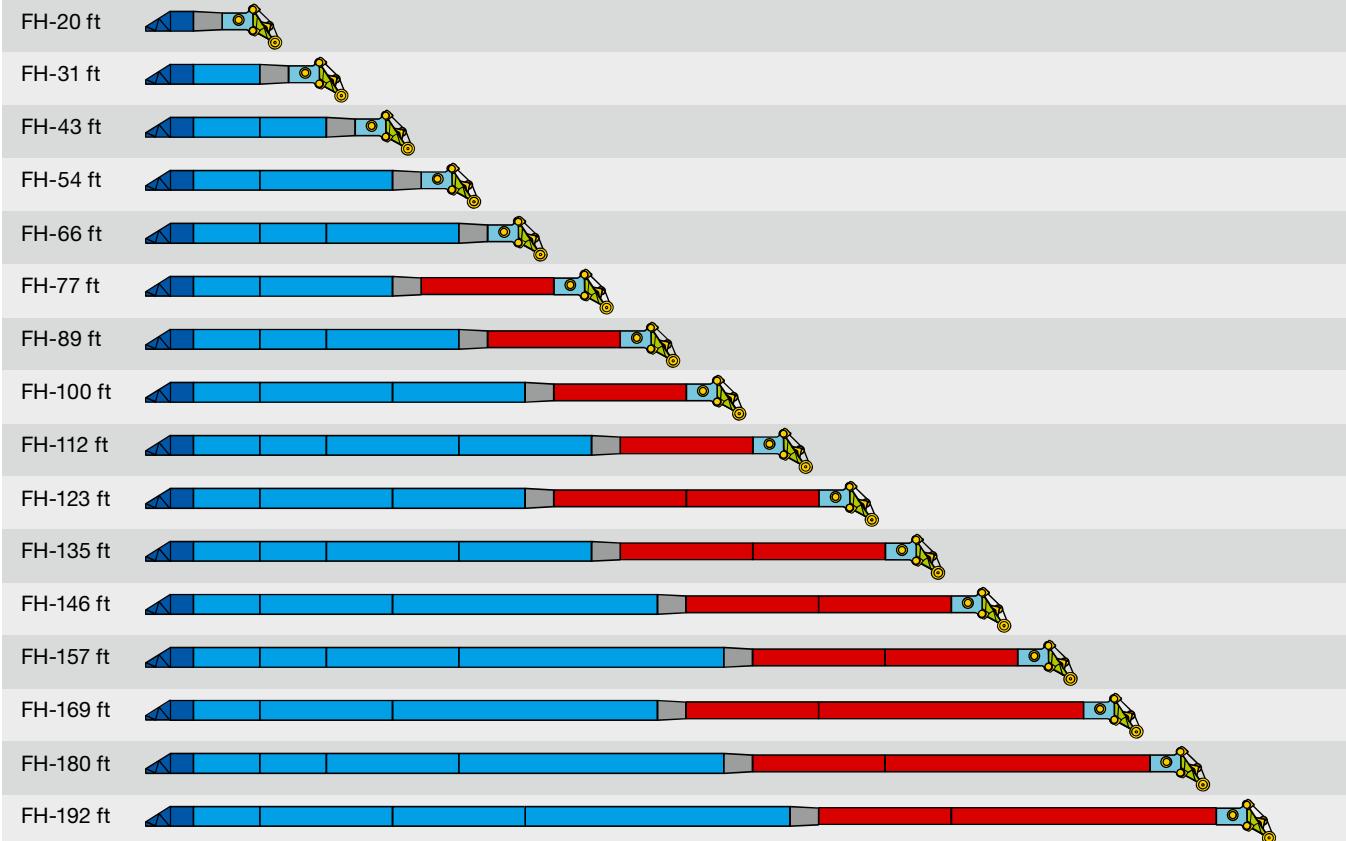


US2517

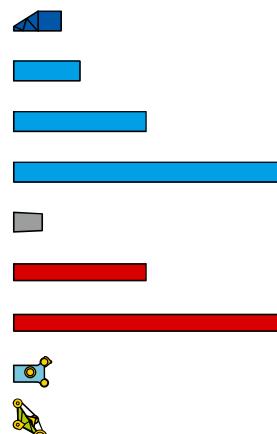
LTM 1750-9.1

A

Boom/jib combinations – Fixed fly jib Configurations de flèche – Fléchette fixe



After the TF-adapter a 11'6" long NA-extension has to be installed. (Exception F-20 ft) · un élément NA de 11'6" doit être monté en bout de l'adaptateur TD. (Exception F-20 ft)



8'2" TF-adapter · TF-adaptateur

NA-11'6"

NA-23'

NA-46'

4'11" NM reduction section · Elément réducteur NM

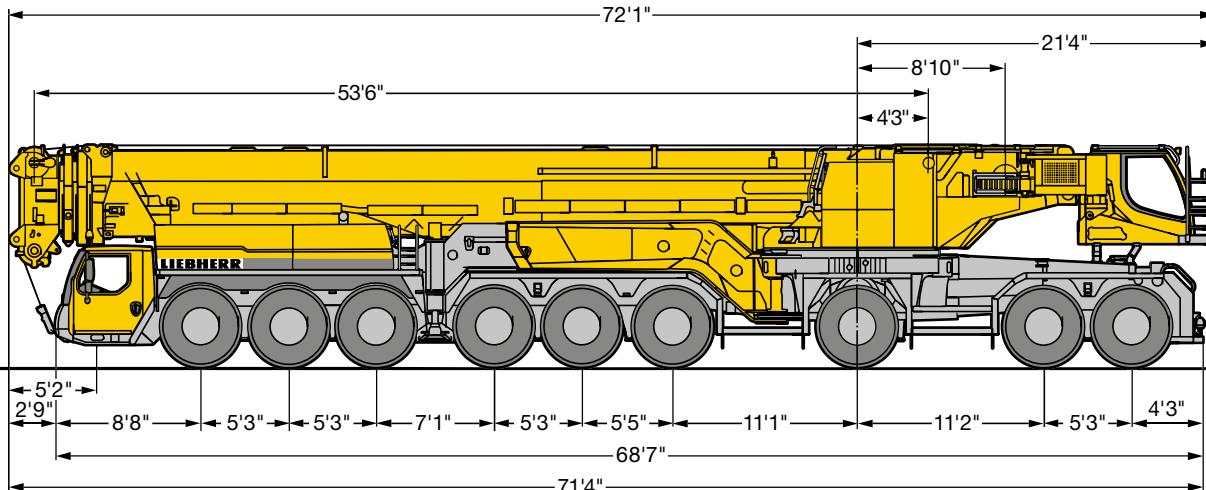
NI-23'

NI-46'

6'7" N head section · Élément de tête N

5'7" H auxiliary jib · Fléchette auxiliaire H

US2606

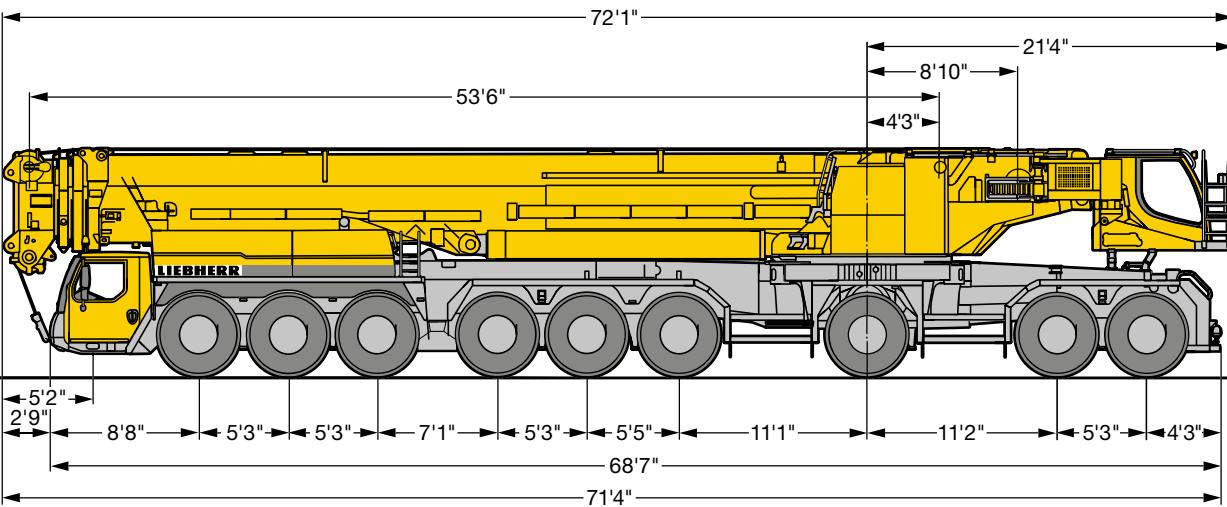
**Weights
Poids**


US2809



Axle Essieu	1	2	3	4	5	6	7	8	9	Total weight lbs Poids total lbs
Ibs	26400	26400	26400	26400	26400	26400	26400	26400	26400	237600*

* incl. front outriggers · stabilisateurs avant inclus



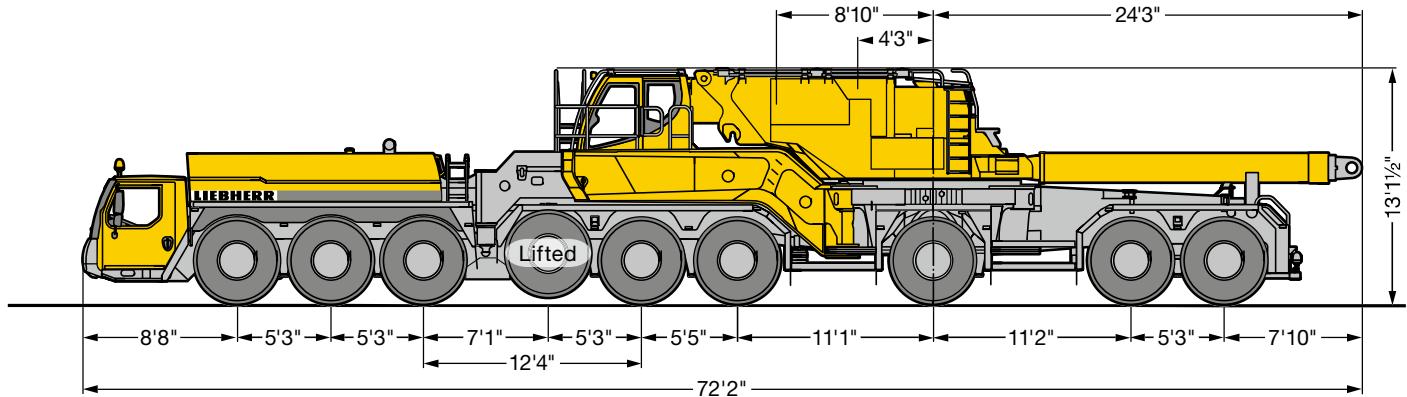
US2491.02



Axle Essieu	1	2	3	4	5	6	7	8	9	Total weight lbs Poids total lbs
Ibs	24250	24250	24250	24250	24250	24250	24250	24250	24250	218250**

** without outriggers · sans verins de calage

A

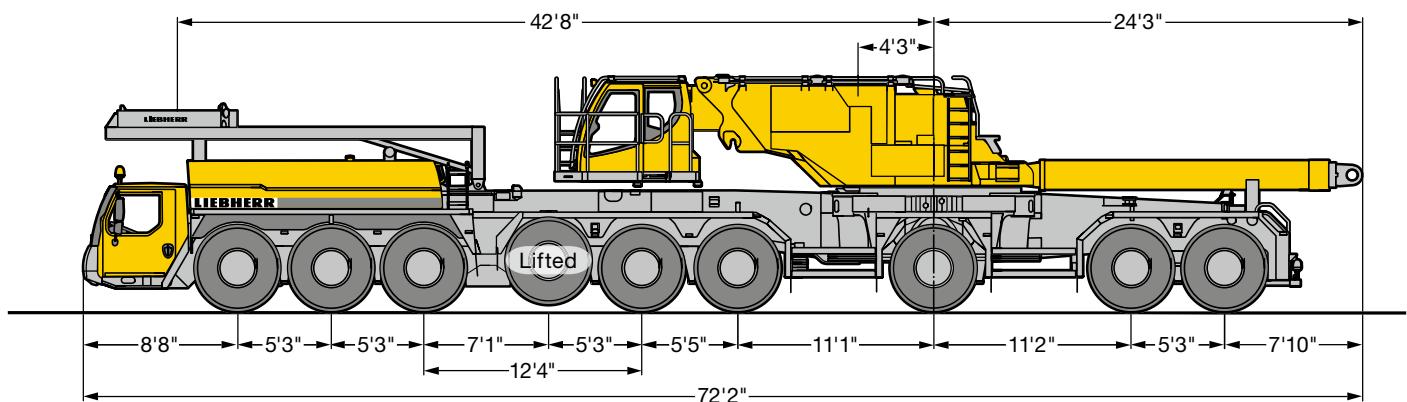
**Weights
Poids**


US2520.02

Tyre equipment 525/80 R 25 (20.5 R 25) · Pneumatiques 525/80 R 25 (20.5 R 25)



Axle Essieu	1	2	3	4	5	6	7	8	9	Total weight lbs Poids total lbs
Ibs	18400	18400	18400	–	18500	18500	23600	23600	23600	163000



US2521.02

Tyre equipment 525/80 R 25 (20.5 R 25) and 11025 lbs counterweight at carrier · Pneumatiques 525/80 R 25 (20.5 R 25) et contrepoids de 11025 lbs sur châssis



Axle Essieu	1	2	3	4	5	6	7	8	9	Total weight lbs Poids total lbs
Ibs	19200	19200	19200	–	19300	19300	19400	19400	19400	154400

Weights Poids

A



Load kips Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
593	11	22	11685 / 9920 / 8160
522.4	9	19	11025 / 8820 / 6615
425.4	7	15	9920 / 8600 / 7275 / 5950
209.4	3	7	8380 / 7055 / 5730 / 4410
92.6	1	3	4410 / 2205
30.8	–	1	1545

Working speeds Vitesses



Drive Mécanismes	1	2	3	4	5	6	7	8	9	10	11	12	R 1	R 2	boom
385/95 R 25 (14.00 R 25)	1.1 – 3.4	4.3	5.7	7.3	9.2	11.8	15.6	20	25.9	33.1	41.9	50	1.2 – 3.7	4.7	41.8 %
445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	1.2 – 3.7	4.8	6.2	7.9	10	12.8	17	21.8	28.1	36	45.7	50	1.3 – 4	5.2	37.8 %



Drive Mécanismes	infinitely variable en continu	Rope diameter / length Diamètre / longueur du câble	Max. single line pull Effort au brin maxi.
1	0 – 348 ft/min single line · au brin simple	0.98" / 2296 ft	31923 kips
2	0 – 341 ft/min single line · au brin simple	0.98" / 3051 ft	31923 kips
3	0 – 341 ft/min single line · au brin simple	0.98" / 3265 ft	31923 kips
360°	0 – 0.9 rpm		
	approx. 120 seconds to reach 85° boom angle · env. 120 s jusqu'à 85°		
	approx. 300 seconds for boom extension from 53 ft – 171 ft · env. 300 s pour passer de 53 ft – 171 ft		



Lifting capacities Forces de levage

T

B

ft	53 - 171 ft		360°	449700 lbs	85%	ft						
	53 ft	72 ft	89 ft	107 ft	125 ft	143 ft	161 ft	164 ft	167 ft	171 ft		
10	1637	592.8	592.8	592.8							10	
11	977.3	592.8	592.8	592.8							11	
12	868	592.8	592.8	592.8							12	
13	806.1	592.8	592.8	592.8	590.8						13	
14	756.6	592.8	592.8	592.8	588.8						14	
15	722.7	592.8	592.8	592.8	586.8	423.1					15	
16	697.3	592.8	592.8	589.7	584.8	413					16	
17	675.6	592.8	592.8	585.7	582.8	402.9					17	
18	654.9	592.8	592.8	581.8	580.8	392.8	321.2				18	
19	634.9	592.8	592.8	577.8	578.8	382.7	315.4				19	
20	616.5	592.8	592.8	573.9	568.5	372.6	309.1				20	
22	582.3	581.5	582.1	566	539.2	352.4	296.4	248.7	240.5	223.6	214.5	22
24	551.2	551.2	550.8	549.4	509.5	336.3	283.7	240.3	232.8	217.6	208.1	24
26	523.1	523.1	523	521.3	479.8	322.4	271.3	231.9	225.1	211.4	201.1	26
28	497.3	497.3	497.3	495.6	450.1	309	260	223.5	217.4	205.2	194.1	28
30	473.8	473.8	473.8	469.4	425	295.6	251.2	215.2	209.6	199	187.1	30
32	452.5	452.5	452.3	440.8	406.2	282.2	242.4	207.5	201.9	192.9	180.1	32
34	432.7	432.7	432.6	416.2	387.8	269.2	233.6	201.6	196.2	187.5	174	34
36	414.6	414.6	414.4	400.7	369.4	258.3	224.8	195.6	190.5	182.6	169	36
38	397.8	397.8	397.6	385.6	351.1	249.3	215.9	189.6	184.9	177.8	164.2	38
40	382.2	382.2	382	370.7	332.7	240.3	207.1	183.6	179.3	173	159.3	40
45	347.9	347.9	347.7	333.5	299.8	217.9	191.3	168.7	165.3	160.9	147.1	45
50			318.6	300	274.3	197.6	176.5	156.9	153.2	149.5	135.5	50
55			293.4	277.8	248.7	182.4	161.9	146.9	143.8	140.8	127.3	55
60			271.7	255.7	224.9	168.4	149.5	136.9	134.5	132	119.3	60
65			236	237.3	209.7	155.8	140.5	126.9	125.1	123.3	111.3	65
70				222.2	194.6	143.7	131.4	119.6	117.4	115.3	103.5	70
75				207.7	179.8	136.2	122.3	113	111.1	109.1	98	75
80				196.4	168.7	128.8	113.2	106.4	104.8	103.2	92.7	80
85				127.9	158.4	121.4	107	99.8	98.6	97.3	87.4	85
90					148.3	114.5	101.4	93.2	92.4	91.4	82.1	90
95					140.4	109.4	95.9	88	86.9	85.8	76.8	95
100					132.1	104.3	90.4	84	82.7	81.3	72.4	100
105						99.3	85.5	79.9	78.8	77.6	69.1	105
110						95.5	81.2	75.9	75	74	65.8	110
115						92	77	71.8	71.1	70.3	62.5	115
120						89.6	72.8	68.7	67.6	66.7	59.1	120
125							69.8	66	64.9	63.8	56.2	125
130							67.4	63.2	62.3	61.3	53.9	130
135							65.1	60.5	59.7	58.8	51.7	135
140								57.9	57.1	56.3	49.4	140
145								55.6	55	54	47.2	145
150								53.4	52.9	52.1	45.4	150
155								51.5	50.9	50.3	43.8	155
160									44.1	48.5	42.2	160
165										41.3	41.3	165

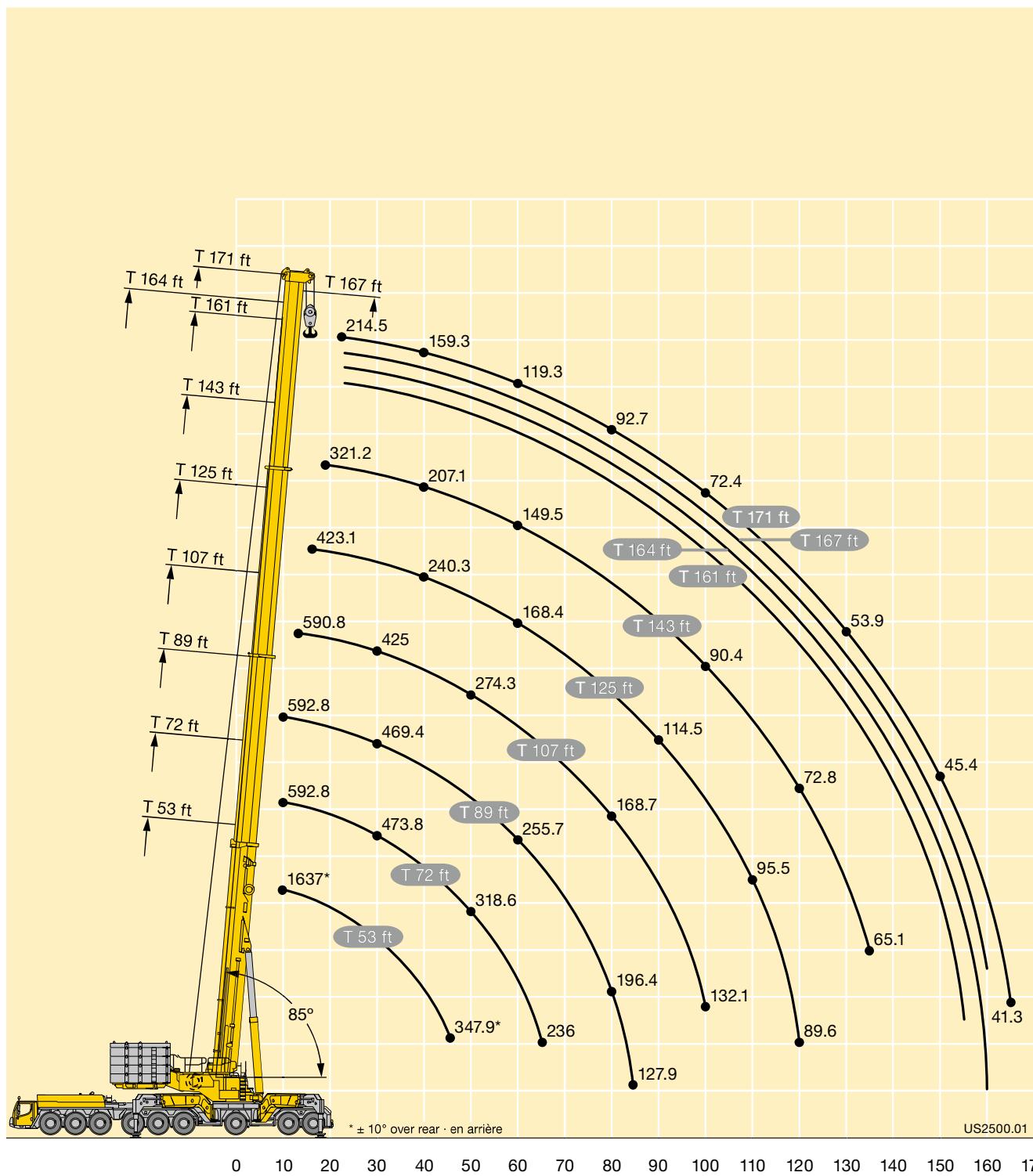
* ± 10° over rear · en arrière

t_198_001_00000_00_000 / 001_00001_00_000

Lifting heights Hauteurs de levage

T

B



Lifting capacities
Forces de levage
TY

C

	89 ft	107 ft	125 ft	143 ft	161 ft	164 ft	167 ft	171 ft	
10	592.8								10
11	592.8								11
12	592.8	590.7							12
13	592.8	591.8							13
14	592.8	590.9							14
15	592.8	589.9	561.6						15
16	592.8	589	577.2						16
17	592.8	588.1	571.3						17
18	592.8	587.2	565.3	536					18
19	592.8	585.2	559.3	530.1					19
20	592.8	581.4	553.4	524.3	489.6	478.6			20
22	577.1	570.3	541.9	512.6	475.6	467.5	459.2	450.5	22
24	546.9	548.4	530	501	461.2	454	446.4	438.4	24
26	518.1	520.1	510	488.7	446.8	440.6	433.7	426.2	26
28	491.8	494	487.6	472.4	432.5	427.1	420.9	414	28
30	467.9	470.1	466.2	452.4	418.2	413.6	408.1	401.9	30
32	446.3	448.2	446.4	433.8	403.9	400	395.1	389.6	32
34	425.8	428.3	427.9	416.4	389.6	386.3	382.1	377.2	34
36	407.4	409.7	410	400.2	375.3	372.6	369	364.7	36
38	390.2	392.8	392.9	385.1	361.1	358.9	355.8	352.2	38
40	374	376.9	377	370.9	346.8	345.2	342.7	339.7	40
45	338.5	341.6	342.3	339.4	312.6	311.6	310.2	308.5	45
50	308.4	311.7	312.4	312.2	290.7	288.5	286.1	283	50
55	282.6	286	286.5	287	268.7	267.4	266	263.6	55
60	260	263.5	264.4	264.8	246.8	246.4	246	244.2	60
65	240.2	243.9	244.8	245.3	228.2	227.5	227.1	225.2	65
70	221.3	225.9	227.3	227.5	213.8	212.5	211.5	208.9	70
75	202.5	207.7	209.2	209.8	200.2	199.5	199	197	75
80	184.9	191.4	192.8	193.4	186.5	186.5	186.5	185.1	80
85	108.1	177	178.6	179.3	172.9	173.5	173.9	173.2	85
90		164.2	165.9	166.6	159.6	160.6	161.4	161.3	90
95		152.7	154.5	155.2	151.2	150.8	150.3	149.4	95
100		125.7	144.2	145.1	142.9	142.7	142.6	141.6	100
105			135	135.9	134.5	134.6	134.8	134.1	105
110			126.7	127.5	126.2	126.6	127.1	126.7	110
115			114.8	119.9	118.3	118.7	119.4	119.3	115
120			77	112.9	112.4	112.2	112.1	112	120
125				106.6	106.2	106.5	106.8	106.1	125
130				100.7	100.3	100.7	101	100.8	130
135				80.7	94.8	95.2	95.6	95.4	135
140					89.8	90.2	90.5	90.3	140
145					85.1	85.5	85.8	85.7	145
150					74.3	81.2	81.5	81.3	150
155					51.6	65.3	73.3	77.3	155
160						30.3	54.9	64.7	160
165							41.6	41.6	165

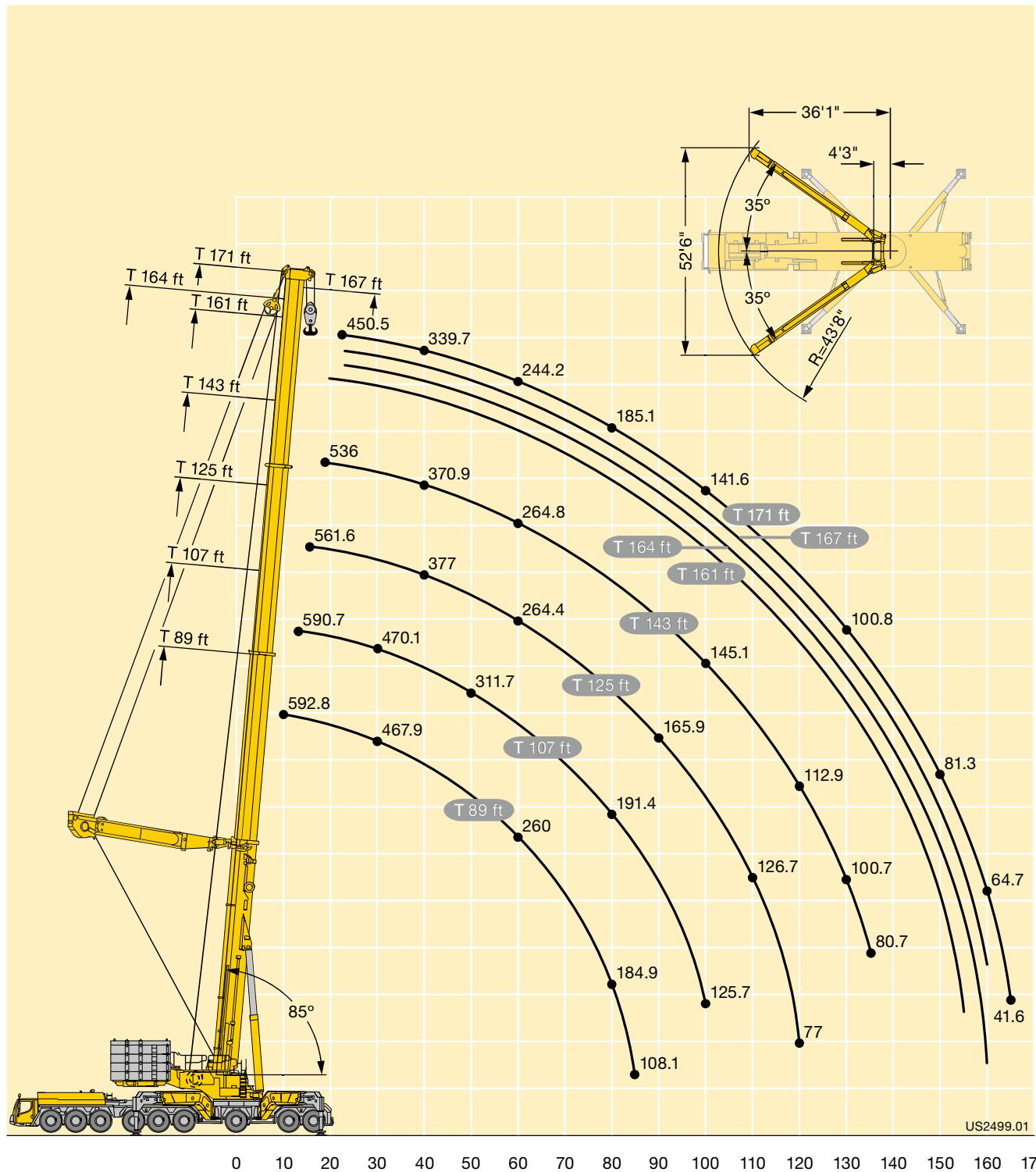
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Lifting heights Hauteurs de levage

TY

C



Lifting capacities Forces de levage

TY

C

	89 ft	107 ft	125 ft	143 ft	161 ft	164 ft	167 ft	171 ft	
11	592.8								11
12	592.8								12
13	592.8	592.8							13
14	592.8	592.8							14
15	592.8	592.8	525.6						15
16	592.8	592.8	531.6						16
17	592.8	592.8	534	409.2					17
18	592.8	592.8	535.4	410					18
19	592.8	591.9	536.5	410.5	308.9	293	279.4		19
20	592.8	589.3	537.4	410.9	308.9	293.1	280.1	265.6	20
22	579.8	577	539.4	411.7	308.9	293.3	280.6	265.8	22
24	549.5	551.5	533.5	412.6	308.9	293.5	281.2	266	24
26	520.6	522.6	513.7	412.9	308.9	293.7	281.8	266.2	26
28	494.1	496.3	490.4	411.4	308.8	293.9	282.3	266.4	28
30	470.1	472.3	468.9	409	307.5	293.5	282.6	266.5	30
32	448.4	450.4	449	406.7	305.5	293.1	281	266.5	32
34	427.8	430.3	430.4	404.3	303.5	291.9	279.3	266.5	34
36	409.3	411.7	412.4	399.2	301.6	290.4	277.6	266.5	36
38	392	394.7	395.2	388.6	299.6	288.5	275.9	265.4	38
40	375.8	378.6	379.3	374.4	297.6	286.7	274.1	264.1	40
45	340	343.2	344.3	342.6	290.2	280.8	269.3	260	45
50	309.8	313.1	314.3	315.3	274.4	267.8	259.2	251.9	50
55	283.8	287.3	288.3	289.8	258.5	253.9	247.3	241.4	55
60	261.1	264.7	266	267.5	242.6	239.9	235.5	230.8	60
65	241.1	245	246.3	247.8	228.1	226.4	223.6	220.2	65
70	222.3	227	228.8	230	215	213.7	211.8	209.3	70
75	203.3	208.7	210.7	212.3	202.1	201.3	200	198.1	75
80	185.5	192.3	194.2	195.8	189.2	188.9	188.1	186.8	80
85	108.3	177.7	179.9	181.5	176.3	176.5	176.3	175.6	85
90		164.8	167	168.8	164	164.4	164.6	164.3	90
95		153.2	155.5	157.2	155.7	155.1	154.3	153.3	95
100		126.1	145.2	147	147.2	147.2	146.8	145.8	100
105			135.8	137.6	137.9	138.5	138.7	138.5	105
110			127.4	129.1	129.4	130	130.3	130.4	110
115			115.4	121.4	121.6	122.3	122.5	122.7	115
120			77.4	114.2	114.5	115.2	115.4	115.6	120
125				107.7	108	108.6	108.9	109	125
130				101.7	102	102.6	102.9	103	130
135				81.6	96.3	97	97.3	97.4	135
140					91.2	91.8	92.1	92.2	140
145					86.3	87	87.3	87.4	145
150					75.5	82.4	82.7	82.8	150
155					52.3	66.3	74.5	78.5	155
160						30.7	55.7	65.8	160
165								42.3	165

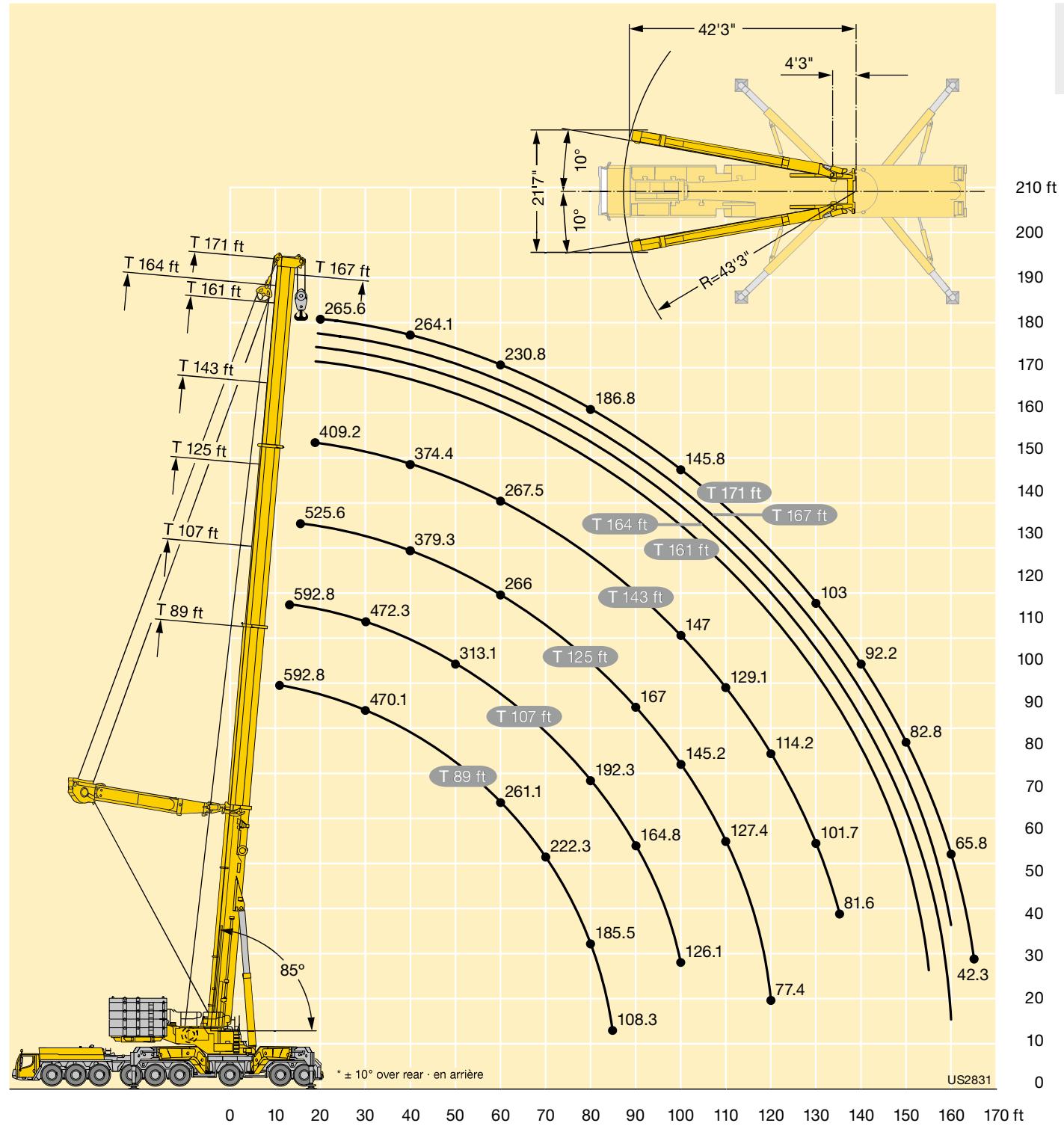
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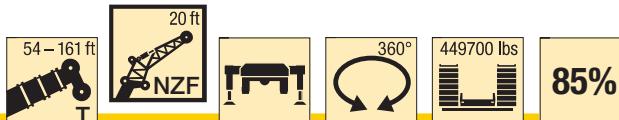


Lifting heights Hauteurs de levage

TY

C



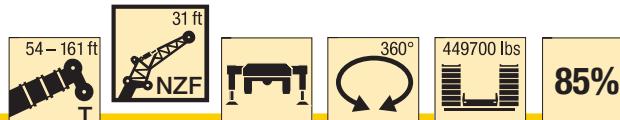
**Lifting capacities
Forces de levage**
TNZF 20 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*					
		20 ft				20 ft				20 ft				20 ft				20 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	10	253.9																			10		
	11	251																			11		
	12	248.1																			12		
	13	245.2	210.7																		13		
	14	242.3	207.1																		14		
	15	239.4	203.5																		15		
	16	236.4	199.9	162.7		238.3															16		
	17	233.4	196.2	160.5		236.7															17		
	18	230.4	192.6	158.3		235.1															18		
	19	227.4	189	156.1		233.5				227.5											19		
	20	224.4	185.4	153.9		231.9	204.3			226.4											20		
	22	217	178.1	149.5	120.4	228.8	200.8			223.9											22		
	24	208.7	170.9	145.1	118.6	225.5	197.3	159		221.5	196.3			198.8							24		
	26	201.1	163.9	141.2	116.3	222.2	193.9	156.4		219	193.4	159.1		195.5				167.9			26		
	28	193.5	159.2	137.8	113.6	218.9	189.7	153.8	120.1	216.3	190.5	156.8		192.3	185.5			163.9			28		
	30	185.9	154.6	134.4	110.9	215.6	185.4	151.2	118.2	212	187.6	154.5	118.3	189	181.8	157.2		159.2	153.3		30		
	32	178.3	150	131	108.2	212.3	181.1	148.5	116.4	207.5	184.8	152.2	116.8	185.4	178.1	155.1		154.6	149.6		32		
	34	170.8	145.4	127.5	106	208.9	176.7	145.9	114.5	203	182	149.9	115.1	181	174.5	153.1	114.6	150	145.6	141.8		34	
	36	164.2	141.3	124.7	103.9	205.6	172.4	143.3	112.8	198.5	179.2	147.6	113.6	175.8	170.3	151	113.2	145.6	141.5	138.5		36	
	38	158.6	137.6	122.7	101.7	202.2	168.1	141.3	111.2	194	176.1	145.3	112.1	170.5	165.8	148.9	111.8	141.4	137.5	134.9	110.2		38
	40	153.6	134	120.6	99.7	198.8	163.9	139.3	109.7	189.4	172.7	143.1	110.6	165.2	161.2	146.9	110.5	137.9	133.9	131.2	109		40
	45	141.6	125.1	115.3	95.7	190.4	157.1	134.3	106.1	176.4	163.6	138.6	107.3	151.9	149.7	141	107.3	129.4	125.7	123.3	106.2		45
	50	131.5	119.4	107.8	92	181.9	150.2	129.2	102.9	163	156.4	134.2	104.3	141.3	139.5	134.4	104.6	120.8	117.7	115.8	103.6		50
	55	122.9	112.6	101.7	89.1	172	143.4	124.7	100	150.2	147.6	129.6	101.6	131.9	130.1	127.3	102	113.4	110.7	109.1	101.3		55
	60	116	104.1	95.9	87	162.2	138	120.6	97.3	139.6	138.2	124.5	99.1	122.5	120.8	120.2	99.8	107.3	104.7	103.2	99		60
	65	106.5	97.7	91.7	46.7	154.6	132.6	115.7	95.1	130.5	128.7	119.5	96.9	113.9	113.1	113.2	97.6	101.1	98.8	97.3	95		65
	70	97.5	91.5	87.9	11	147.3	127.3	111.1	93	121.4	119.3	114.3	94.8	107.4	106.5	106.2	95.7	95.1	93.1	92.4	90.7		70
	75	89.9	87.1	37.3	11	140.6	122.2	106.7	91.2	112.3	111.1	108.5	93.1	101	100	99.3	94	89.8	88.6	87.9	86.3		75
	80					134.1	116.3	103.3	89.7	104.8	104.5	102.7	91.4	94.6	93.5	93.2	92	85.3	84.2	83.3	82.1		80
	85					127.1	111.6	99.9	88.2	99	98.2	97.1	89.7	88.3	87.6	87.9	87.2	80.8	79.9	78.9	77.8		85
	90					120.9	107.2	96.8	87.2	93.2	92	91.9	88	82.9	82.9	82.7	82.4	76.4	75.5	74.9	73.9		90
	95					115.3	102.9	94.3		87.4	86.8	86.9	85.8	78.5	78.2	77.7	77.9	71.9	71.5	71.3	70.5		95
	100					109.6	99.1	91.8		82.1	82.4	82	82	74.2	73.5	73.5	73.8	67.8	67.9	67.7	67.1		100
	105					104.3	96	89.7		78.1	78	77.7	77.7	70	69.1	69.7	69.7	64.4	64.4	64.1	63.9		105
	110					100	92.8	88		74	73.7	73.9		65.7	65.8	65.9	66.1	61.2	60.8	60.9	60.9		110
	115					95.8	90.2	86.6		70	69.9	70.2		62.4	62.5	62.1	62.7	57.9	57.4	57.9	57.9		115
	120					91.9	87.9			66.2	66.4	66.6		59.5	59.2	59.3		54.7	54.5	55	55		120
	125					88.6				62.8	62.8	63.2		56.5	56	56.4		51.7	52	52	52.3		125
	130									59.4	59.6	59.8		53.5	53.5	53.5		49.3	49.4	49.5			130
	135									56.1	56.5			50.7	51	51		47	46.9	47.2			135
	140									53.4	53.6			48.6	48.5	48.7		44.8	44.5	45			140
	145									50.7				46.5	46.2	46.4		42.6	42.5	42.7			145
	150													44.3	44.3			40.4	40.6	40.8			150
	155													42.3	42.4			38.7	38.7	39			155
	160													40.4				37.1	36.9	37.2			160
	165																	35.4	35.4				165
	170																	33.8	33.9				170
	175																	32.5					175
	180																	31.3					180

* adapter · pièce d'adaptateur

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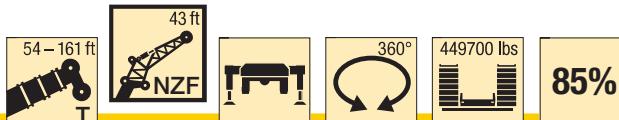
Lifting capacities
Forces de levage
TNZF 31 ft


ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				
	31 ft				31 ft				31 ft				31 ft				31 ft				
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	
11	249.8																			11	
12	247.3																			12	
13	244.8																			13	
14	242.4																			14	
15	239.9																			15	
16	237.5																			16	
17	234.9	207.7																		17	
18	232.2	204.6			231.2															18	
19	229.5	201.5			230															19	
20	226.8	198.3			228.6															20	
22	221.4	191.9	153.4		225.9				217.3											22	
24	216	185	147.2		223.1	192.7			214.9											24	
26	210.1	177.2	141.1		220.3	188.3			212.4				180							26	
28	203.3	169.3	135.9		216.4	183.9			210	179.2			175.9				147.1			28	
30	196.5	161.7	131.3	98.4	212.5	179.5	139.9		207.5	175.1			171.8				143.3			30	
32	189.8	155.2	126.6	96	208.5	174.6	136.4		202.5	171.1	135.5		167.7	160.4			139.6			32	
34	183.1	149.1	122	93.7	204.6	169.6	133.1		196.6	167.1	132.7		163.6	156.1			135.9			34	
36	176.3	143.1	118	91.8	200.7	164.6	130.2	94.9	190.3	163.2	129.9		159.5	151.7	126.9		132.2	126.9		36	
38	169.5	137	114.6	89.8	196.4	159.6	127.3	93.6	184	159.5	127.2		155.4	147.3	124.7		128.6	123.7		38	
40	162.7	131.1	111.1	87.9	191.4	154.7	124.5	92.3	177.7	155.7	124.8	92.3	151.3	143.4	122.4		125	120.6	117.1	40	
45	145.7	120.4	102.6	83.8	178.1	145.1	118.1	89.2	162.8	146.3	118.9	89.7	141.1	134.6	117.3	89.5	117.9	113.2	110.4	45	
50	128.7	110.8	96.6	80	164.8	135.9	112.3	86.4	152	138.4	113.6	87.1	131.2	126.1	112.5	87.1	110.8	106.9	104.2	85.7	50
55	117	101.5	90.6	77.1	153.9	127.7	107	83.9	141.2	131.1	108.8	84.8	123.1	118.7	108	84.9	103.9	100.6	98.5	83.8	55
60	107.2	94.8	85.1	74.5	144.9	121.3	102.5	81.5	131.1	123.8	104.2	82.6	115.4	112.3	104.2	83	98.2	95	93.1	82	60
65	97.5	88.5	81	72.3	136.3	114.8	98	79.4	122.5	117.5	100.4	80.7	107.7	105.9	100.4	81.2	93.1	90.3	88.5	80.3	65
70	90.6	82.8	76.9	70.7	127.7	108.3	94	77.5	115.2	111.2	96.8	78.8	100.5	99.8	96.3	79.5	88	85.5	84	78.7	70
75	84.1	78.4	73.8	61.5	119.9	103.5	90.7	75.8	107.8	105	93.2	77.2	95.3	94.6	91.8	77.8	82.9	80.8	79.7	76.2	75
80	78.2	74.1	71.1	12.2	114.4	99	87.4	74.3	100.4	98.9	90.1	75.7	90.1	89.4	87.4	76.4	78.9	77.2	76.1	73.7	80
85	73.1	71	61.5	11	108.9	94.6	84.5	72.9	93.7	93.4	87.5	74.1	84.9	84.1	82.9	75.2	75.4	73.7	72.6	71.1	85
90					103.4	90.5	82	71.8	88.7	88.4	84.8	72.9	79.6	79	78.7	73.9	71.9	70.2	69.1	67.9	90
95					98.3	87.3	79.5	70.7	83.9	83.3	81.9	71.8	74.9	74.8	74.7	71.7	68.4	66.8	65.8	64.7	95
100					94.2	84.2	77.3	69.9	79.1	78.4	78.2	70.9	70.9	71	70.6	69.5	64.9	63.3	62.7	61.7	100
105					90.2	81	75.4		74.3	74.4	74.3	70	67.3	67.1	66.6	67.1	61.6	60.5	60	59	105
110					86.1	78.4	73.6		70.6	70.8	70.4	68.4	63.8	63.2	63.4	64	58.6	57.9	57.2	56.4	110
115					82.4	76.2	71.9		67.3	67.3	67	66.6	60.2	59.9	60.3	60.7	55.9	55.2	54.5	53.9	115
120					79.4	74	70.7		64	63.8	63.9		56.9	57.1	57.2	57.6	53.1	52.6	52.1	51.8	120
125					76.5	72	69.6		60.8	60.9	60.9		54.2	54.3	54.2	54.9	50.4	50	49.9	49.7	125
130					73.7	70.5			57.7	58.2	58.1		51.6	51.6	51.8		47.7	47.8	47.7	47.6	130
135					71.3	69.1			55.1	55.5	55.6		49.1	48.8	49.4		45.3	45.6	45.5	45.7	135
140					69.2				52.4	52.9	53.2		46.6	46.8	47		43.3	43.4	43.4		140
145									49.8	50.3			44.3	44.7	44.8		41.3	41.3	41.5		145
150									47.4	47.9			42.5	42.7	42.8		39.4	39.3	39.6		150
155									45.2				40.7	40.7	40.9		37.4	37.5	37.7		155
160													38.9	39			35.6	35.9	36		160
165													37.2	37.3			34.2	34.2	34.4		165
170													35.7				32.7	32.6	32.9		170
175													34.3				31.3	31.2			175
180																	29.9	29.9			180
185																	28.7	28.7			185
190																	27.6				190

* adapter · pièce d'adaptateur

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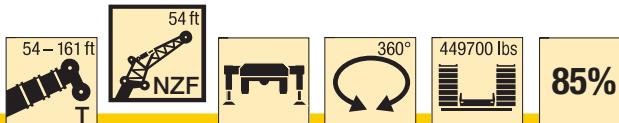
**Lifting capacities
Forces de levage**
TNZF 43 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				
		43 ft				43 ft				43 ft				43 ft				43 ft				
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	
	12	244.6																	12			
	13	240.1																	13			
	14	234.5																	14			
	15	229																	15			
	16	223.4																	16			
	17	217.8																	17			
	18	212.3																	18			
	19	207.1																	19			
	20	202.8	162.1			206.6													20			
	22	194.1	156.3			200.8													22			
	24	185.5	150.6			195				185.7									24			
	26	176.8	144.9			189.2				181.5				148.3					26			
	28	168.4	140.6	120.6		183.5	146.8			177.3				162.3					28			
	30	162.1	136.3	117.6		178.9	143.5			173				157.9				129			30	
	32	156.6	132	114.6		174.4	140.2			168.8	138.7			153.5				126			32	
	34	151.1	127.8	111.9		169.9	137	115.2		165.2	136			149				122.9			34	
	36	145.5	123.9	109.3		165.4	134.2	113.2		161.9	133.3			144.7	129.1			119.9			36	
	38	140	120.8	106.7	78.7	160.9	131.6	111.1		158.6	130.6	110.3		140.7	127			116.8			38	
	40	134.5	117.7	104.2	77.3	156.5	129	109.2		155.3	128.3	108.6		137.1	124.9			113.8	109.2		40	
	45	125.2	109.9	98.5	74.1	147.7	122.5	104.9	75.8	147.2	122.9	104.5		128.7	119.5	102.4		107.2	103		45	
	50	116.7	103.5	93.3	71.1	139.5	117.2	100.9	73.7	139	117.5	100.8	73.6	120.4	113.4	99.1		101.3	97.2	93.9	50	
	55	108.2	98.2	88.6	68.7	131.3	112	97.2	71.8	131	113	97.3	71.9	112.8	107.4	96	71.3	95.4	92.2	89.3	55	
	60	101.1	92.9	84.8	66.5	124.3	107.1	93.6	70.1	122.9	108.8	94.2	70.3	106.9	101.7	93	69.9	89.6	87.2	84.9	68.8	
	65	95.8	88.1	81.1	64.8	118.1	103.3	90.6	68.5	115.2	104.6	91.2	68.7	101	96.6	90.1	68.5	85.3	82.5	80.5	67.6	
	70	90.4	84.7	77.7	63.3	112	99.6	87.7	67	108.5	100.5	88.5	67.4	95.2	91.5	87.2	67.3	81.1	78.7	76.7	66.5	
	75	85.5	81.1	75.2	62	105.8	95.8	85	65.7	102.5	96.4	86.2	66.2	89.7	86.5	84.2	66.1	76.8	74.9	73.1	65.5	
	80	81.9	77.9	72.7	61.3	99.8	92.1	82.5	64.6	96.5	92.3	83.9	65.1	85.3	82.6	80.5	65.1	72.6	71.1	69.6	64.4	
	85	78.3	75.3	70.9	60.7	95.4	88.3	80.4	63.6	90.5	88.2	81.6	64.1	81	78.8	76.7	64.1	69.3	67.9	66.4	62.8	
	90	74.9	72.6	69.6	23.5	91	84.6	78.3	62.6	84.7	84.1	79	63.1	76.7	75	72.9	63.3	66.3	65	63.6	61.1	
	95	71.5	70	68.7	11	86.7	80.8	76.1	61.8	80.2	79.9	76.3	62.3	72.4	71.1	69.3	62.5	63.4	62.2	60.9	59.4	
	100	68.1	42.9			82.4	77.6	73.7	61.2	76.2	75.8	73.7	61.7	68.2	67.5	66.2	61.8	60.5	59.3	58.1	57	
	105					78.9	74.9	71.2	60.7	72.2	71.6	71	61.1	64.6	64.3	63.5	60.2	57.6	56.5	55.4	54.5	
	110					75.9	72.2	68.9	60.3	68.2	67.5	67.8	60.6	61.5	61.2	60.7	58.5	54.8	54	53.1	52.2	
	115					73	69.4	67	60.1	64.4	64.5	64.5	60.2	58.4	58.1	57.9	56.7	52.2	51.7	50.8	50	
	120					70	67.2	65.1		61.5	61.6	61.3	59.3	55.3	55	55.3	54.7	50.1	49.5	48.5	48	
	125					67.4	65.3	63.2		58.7	58.6	58.4	57.9	52.2	52.4	52.7	52.6	47.9	47.3	46.3	45.9	
	130					65.3	63.3	61.8		55.9	55.8	55.9		49.6	50	50.2	50.4	45.7	45.2	44.4	44.2	
	135					63.2	61.6	60.5		53.1	53.3	53.4		47.4	47.7	47.6	48.2	43.6	43.2	42.7	42.5	
	140					61.2	60.1			50.6	51.1	51		45.3	45.3	45.5		41.5	41.4	41	40.8	
	145					59.6	58.7			48.5	48.9	48.9		43.1	43.1	43.5		39.6	39.7	39.3	39.3	
	150					58.1				46.4	46.7	46.8		41	41.3	41.5		37.9	38	37.7	37.8	
	155									44.3	44.7			39.1	39.5	39.6		36.2	36.3	36.2	155	
	160									42.3	42.8			37.5	37.7	37.9		34.5	34.7	34.7	160	
	165									40.4				35.9	36	36.3		32.8	33.2	33.2	165	
	170													34.3	34.5			31.2	31.8	31.7	170	
	175													32.8	33.1			29.9	30.3	30.4	175	
	180													31.6	31.8			28.7	28.9	29	180	
	185													30.4				27.4	27.7		185	
	190																	26.2	26.5		190	
	195																	25.1	25.4		195	
	200																	24.2			200	

* adapter · pièce d'adaptateur

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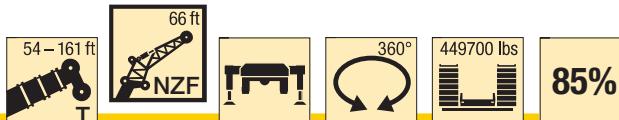
**Lifting capacities
Forces de levage**
TNZF 54 ft


ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*			
	54 ft				54 ft				54 ft				54 ft				54 ft			
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°
14	208.3																			14
15	203																			15
16	197.7																			16
17	192.4																			17
18	187.1																			18
19	181.8																			19
20	176.5																			20
22	168				167.8															22
24	160.9	126			163				153.8											24
26	153.7	120			158.1				150.2											26
28	146.6	114			153.2				146				134.8							28
30	139.4	108.1			148.3	111.4			141.9				131.8							30
32	132.6	103.9	84.5		143.8	108.5			137.7				128.6				114.4			32
34	126.9	99.7	81.6		139.3	105.5			133.6	102.8			125.4				112			34
36	121.2	95.6	78.8		134.8	102.5			130.1	100.4			122.2				109.4			36
38	115.4	91.4	76		130.2	99.7			126.7	98			119	93.7			106.9			38
40	109.7	87.3	73.7		125.7	97.3	77.6		123.3	95.6			116.2	91.9			104.4			40
45	95.7	80.2	68.3		115.8	91.3	73.3		114.9	90.5	73.5		109.9	87.4			98.2	83.4		45
50	87.6	73.3	63.4	50.5	108.2	85.6	69.5		106.7	85.8	69.9		103.9	83.5	69.2		93.3	80	66.9	50
55	80	67.3	59.4	48.1	100.7	80.7	65.9	50	101	81.3	66.8	50.1	97.9	79.8	66.3		88.3	76.9	64.7	55
60	72.4	63	55.4	45.9	93.5	75.8	63	48.4	95.3	77.4	63.8	48.6	93.1	76.2	63.7	48.4	83.4	74.2	62.4	60
65	65.6	58.7	52.5	44.1	87.9	71.4	60	46.9	89.6	73.5	61.2	47.2	88.9	73.1	61.1	47.1	79	71.4	60.2	46.6
70	61	54.4	49.7	42.3	83	68.1	57.5	45.5	84.7	69.7	58.7	45.9	84.7	70.1	59	46	75.4	68.8	58.1	45.6
75	56.7	51.2	46.9	40.8	78	64.8	55.3	44.3	80.5	66.7	56.4	44.8	80.5	67.1	56.9	44.9	71.8	66.4	56.2	44.6
80	52.3	48.3	44.6	39.5	73	61.5	53	43.1	76.6	63.9	54.5	43.7	76.7	64.2	54.9	43.9	68.2	64.1	54.5	43.6
85	49	45.5	42.7	38.2	68.4	58.4	51	42.1	72.7	61.2	52.6	42.7	73.7	62	53.2	42.9	64.6	61.8	52.8	42.7
90	46.1	43.1	40.8	37.4	65	56	49.2	41.1	68.8	58.4	50.7	41.8	70.8	59.7	51.6	42	61.9	59.5	51.2	41.9
95	43.3	41.1	39.2	36.7	61.9	53.7	47.6	40.2	64.9	56	49	40.9	67.8	57.5	50	41.2	59.3	57.3	50	41.2
100	40.8	39.2	37.9	34	58.8	51.4	45.9	39.4	62.2	53.9	47.6	40.1	64.8	55.3	48.4	40.5	56.9	55.2	48.7	40.4
105	38.7	37.6	36.8	11	55.7	49.3	44.5	38.6	59.7	52	46.2	39.4	61.8	53.1	47.1	39.8	54.4	53	47.4	39.8
110	36.7	36.2	27.2		53	47.6	43.3	38	57.1	50.1	44.8	38.7	59	51.5	45.9	39.1	51.9	50.8	46.1	39.3
115					50.9	46	42	37.4	54.6	48.3	43.6	38.1	56.4	50	44.8	38.6	49.5	48.7	44.9	38.7
120					48.9	44.4	40.9	37	52.1	46.7	42.6	37.6	53.8	48.5	43.6	38.1	47.2	46.7	43.7	38.2
125					46.8	42.8	39.9	36.5	50.1	45.4	41.5	37.1	51.2	46.9	42.5	37.6	45.4	44.9	42.6	37.7
130					44.7	41.6	39		48.4	44	40.5	36.7	48.6	45.4	41.7	37.1	43.6	43	41.4	37.3
135					43.1	40.4	38.1		46.7	42.7	39.6	36.4	46.1	44	40.8	36.8	41.8	41.2	40.1	36.9
140					41.7	39.2	37.4		45.1	41.4	38.9		44	42.6	40	36.4	40	39.4	38.8	36.4
145					40.2	38.2	36.7		43.4	40.4	38.1		42.1	41.2	39.1	36.2	38.2	37.7	37.4	35.9
150					38.8	37.3	36.3		42	39.5	37.4		40.3	39.8	38.2	35.9	36.4	36.3	35.9	35.3
155					37.6	36.5			40.8	38.5	36.9		38.4	38.4	37.3		35	35	34.5	34.4
160					36.6				39.6	37.6	36.4		36.5	36.9	36.4		33.6	33.6	33.2	33.2
165									38.4	37	36		34.9	35.4	35.4		32.1	32.2	32	165
170									37.3	36.4			33.5	33.8	34.1		30.7	30.9	30.8	170
175									36.2	35.9			32.2	32.3	32.7		29.3	29.6	29.7	175
180									35.1				30.8	31	31.3		28	28.4	28.5	180
185													29.5	29.7			26.9	27.2	27.4	185
190													28.4	28.5			25.7	26	26.2	190
195													27.3				24.6	24.9	25	195
200																	23.5	23.9		200
205																	22.6	22.8		205
210																	21.7			210
215																	20.9			215

* adapter · pièce d'adaptateur

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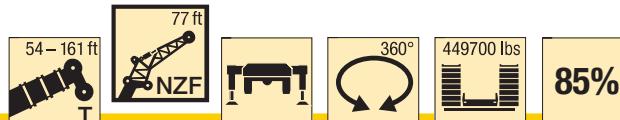
Lifting capacities
Forces de levage
TNZF 66 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				
		66 ft				66 ft				66 ft				66 ft				66 ft				
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	
	15	177.8																			15	
	16	173.7																			16	
	17	169.5																			17	
	18	165.4																			18	
	19	161.2																			19	
	20	157.1																			20	
	22	148.7				143.3															22	
	24	141.9				139.5															24	
	26	136.3				135.5				128.6											26	
	28	130.6	105.7			131.4				125.6											28	
	30	125	102			127.3				122.5				114.3							30	
	32	119.3	98.4			123.5				119.5				112.1							32	
	34	113.6	94.8			120.5	96.9			116.4				109.9				99.4			34	
	36	109.4	91.9			117.5	95			113.4				107.8				97.7			36	
	38	105.8	89.2	76.7		114.6	93			111.1	91.6			105.6				95.9			38	
	40	102.2	86.5	74.8		111.7	91			108.8	90			103.4				94.1			40	
	45	93.4	79.7	70		104.4	86.3	72		103.2	86			98.8	83			89.6			45	
	50	85.1	74.8	66.2		98.6	81.8	69		97.6	82.3	68.7		94.6	79.8			85.3	75.8		50	
	55	79.5	70.1	62.3	49.3	93.4	77.5	66.2		92.6	78.6	66		90.5	76.8	65.3		81.1	73.4		55	
	60	74.3	65.5	59.1	47.2	88.3	74	63.4		88.7	75	63.7		86.4	74.1	63		77	71	61.4	60	
	65	69.2	62	55.9	45.3	83.5	70.6	61.2	46.6	84.8	72.1	61.5	46.5	83	71.3	61.1		72.9	68.7	59.6	65	
	70	64.2	58.6	52.9	43.5	79.5	67.3	59	45.3	80.9	69.3	59.4	45.3	79.7	68.7	59.2	45	69.3	66.4	57.9	70	
	75	60.4	55.3	50.4	42.1	75.9	64.8	56.9	44.2	77.2	66.4	57.4	44.2	76.5	66.4	57.4	44	66.3	64	56.3	43.4	
	80	57	52.1	48	40.7	72.3	62.3	54.8	43.1	74.2	63.9	55.5	43.2	73.3	64.2	55.6	43.1	63.3	61.4	54.7	42.5	
	85	53.7	49.5	45.6	39.6	68.7	59.9	52.9	42.1	71.2	61.8	53.8	42.3	70.2	61.9	53.9	42.3	60.3	58.7	53.2	41.7	
	90	50.4	47.1	43.7	38.6	65.2	57.5	50.9	41.1	68.3	59.7	52.1	41.5	67.4	59.9	52.3	41.4	57.3	56.1	51.7	41	
	95	47.8	44.6	42	37.6	62.4	55.3	49.1	40.3	65.4	57.7	50.4	40.7	64.6	58.1	50.9	40.7	54.9	53.7	50.3	40.3	
	100	45.3	42.5	40.4	37	60.1	53.3	47.6	39.5	62.4	55.6	48.8	39.9	61.8	56.4	49.5	40	52.6	51.4	48.8	39.7	
	105	42.8	40.8	38.9	36.4	57.8	51.4	46.2	38.8	60.1	53.7	47.4	39.3	59	54.6	48.1	39.3	50.5	49.5	47.3	39.1	
	110	40.6	39.1	37.8	36.2	55.4	49.4	44.7	38.2	58	52	46.1	38.6	56.3	52.8	46.7	38.8	48.4	47.5	45.7	38.6	
	115	38.7	37.7	36.7	11	53.1	47.7	43.5	37.5	56	50.4	44.9	38.1	53.6	51.1	45.5	38.2	46.3	45.6	44.2	38	
	120	36.9	36.5	36.4		51.1	46.2	42.4	37.1	54	48.7	43.7	37.5	51.4	49.3	44.5	37.7	44.1	43.6	42.7	37.6	
	125					49.3	44.7	41.3	36.7	52.1	47.1	42.6	37	49.2	47.5	43.5	37.3	42	41.8	41.1	37.2	
	130					47.5	43.3	40.2	36.3	50.1	45.7	41.7	36.7	47	45.7	42.5	36.9	40.4	40.2	39.6	36.7	
	135					45.6	41.9	39.3	36.1	48.4	44.5	40.8	36.3	44.8	44	41.4	36.5	38.9	38.6	38	36	
	140					43.9	40.8	38.5		46.6	43.4	39.9	36	42.6	42.2	40.3	36.2	37.3	37	36.4	35.2	
	145					42.4	39.8	37.7		44.9	42.2	39.1	35.8	40.6	40.6	39.2	35.9	35.8	35.5	34.9	34.4	
	150					41.1	38.8	37.1		43.2	41	38.4	35.7	38.9	39	38.1	35.7	34.3	34	33.6	33.4	
	155					39.8	37.8	36.5		41.5	40	37.7		37.3	37.4	37	35.4	32.8	32.6	32.3	32.3	
	160					38.6	37.1	36.1		39.9	39	37.1		35.6	35.8	35.7	35.1	31.4	31.4	31.1	31.1	
	165					37.6	36.4			38.4	38	36.6		34	34.2	34.3		30.3	30.3	29.9	29.9	
	170					36.6				36.9	37	36.2		32.3	32.8	32.9		29.1	29.1	28.7	28.9	
	175									35.4	35.7	35.6		30.9	31.4	31.5		28	27.9	27.7	175	
	180									34	34.4			29.7	30.1	30.2		26.8	26.8	26.7	180	
	185									32.7	33.1			28.5	28.7	28.9		25.7	25.7	25.7	185	
	190									31.5				27.3	27.6	27.7		24.6	24.8	24.7	190	
	195													26.1	26.4			23.6	23.8	23.8	195	
	200													25.1	25.3			22.6	22.8	22.9	200	
	205														24.2				21.6	21.9	22	205
	210															20.6	21			210		
	215															19.7	20.1			215		
	220															19				220		
	225															18.2				225		

*adapter · pièce d'adaptateur

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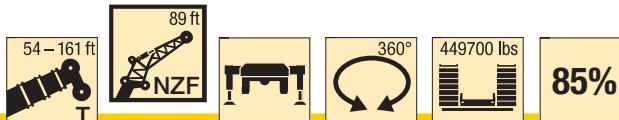
Lifting capacities
Forces de levage
TNZF 77 ft


ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*			
	77 ft				77 ft				77 ft				77 ft				77 ft			
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°
17	149.2																			17
18	145.8																			18
19	142.6																			19
20	139.3																			20
22	132.7																			22
24	126.1				121.2															24
26	120.5				117.9															26
28	116.2				114.5				108.9											28
30	111.9	91.7			111.2				106.4				98.3							30
32	107.6	89			107.9				103.9				96.6							32
34	103.3	86			104.7				101.3				94.7				86.5			34
36	99	83			102.2				98.8				92.9				85.2			36
38	94.9	80.1			99.8	80.9			96.3				91				83.9			38
40	91.7	77.7			97.4	79.3			94.3				89.2				82.6			40
45	84.5	72.2	62.1		91.5	75.3			89.6	73.9			84.9	71.1			79.4			45
50	77.4	66.7	58.3		85.9	71.7	60.5		85	70.6			81.4	68.4			76.2	64.6		50
55	70.9	62.7	55.1		81.5	68.2	58		80.3	67.7	57.8		77.9	65.8			73.3	62.7		55
60	66.3	58.9	52.1		77.4	64.9	55.6		76.8	65	55.6		74.4	63.5	54.9		70.4	60.6		60
65	62.2	55.1	49.4	39.9	73.3	62	53.4		73.6	62.3	53.6		71.3	61.3	53		67.6	58.8	51.7	65
70	58.1	52.2	47.1	38.3	69.6	59.1	51.3	39	70.3	59.9	51.7		68.8	59.2	51.3		64.8	57.2	50.1	70
75	54	49.7	44.8	36.8	66.4	56.4	49.5	37.9	67.2	57.5	49.9	37.9	66.3	57.1	49.7		62.1	55.5	48.7	75
80	50.7	47.1	42.9	35.5	63.4	54.2	47.7	36.9	64.2	55.2	48.3	36.9	63.8	55.2	48.2	36.7	59.4	53.8	47.3	80
85	48.2	44.6	41.3	34.3	60.5	52.2	46.2	36	61.8	53	46.8	36.1	61.3	53.3	46.8	35.9	56.8	52.2	46	85
90	45.7	42.5	39.6	33.2	57.5	50.2	44.8	35.1	59.4	51.3	45.4	35.2	59.1	51.4	45.5	35.1	54.2	50.7	44.9	90
95	43.2	40.8	38	32.3	54.6	48.2	43.4	34.3	57	49.6	44.2	34.5	57.2	49.7	44.1	34.4	51.7	49.2	43.8	34
100	41	39.1	36.7	31.5	52.2	46.4	42	33.5	54.7	47.9	43	33.8	55.3	48.3	43.1	33.7	49.5	47.6	42.7	33.5
105	39.3	37.4	35.6	30.7	50.4	44.9	40.9	32.8	52.3	46.2	41.8	33.1	53.4	47	42.1	33.1	47.6	46	41.6	32.9
110	37.6	36.1	34.4	30.2	48.5	43.5	39.8	32.2	50.3	44.7	40.6	32.5	51.5	45.6	41.1	32.5	45.8	44.4	40.8	32.4
115	36	34.9	33.5	29.8	46.6	42.1	38.7	31.6	48.6	43.4	39.7	31.9	49.7	44.2	40.1	32	43.9	42.8	40	31.9
120	34.5	33.8	32.8	29.4	44.7	40.7	37.7	31.1	47	42.2	38.8	31.4	47.8	42.8	39.2	31.5	42.1	41.1	39.2	31.4
125	33.4	32.9	32.2	17	42.9	39.5	36.9	30.6	45.5	41.1	37.9	30.9	46.1	41.8	38.4	31.1	40.3	39.5	38.3	31
130	32.3	32.3	31.9		41.6	38.5	36.1	30.2	43.9	39.9	37	30.5	44.4	40.8	37.6	30.6	38.5	37.9	37.5	30.6
135	31.8	27.3			40.4	37.5	35.3	29.8	42.4	38.7	36.2	30.1	42.7	39.8	36.8	30.3	36.9	36.4	36.3	30.2
140					39.1	36.5	34.6	29.5	41.1	37.9	35.6	29.8	41	38.8	36.1	29.9	35.6	35	34.9	29.9
145					37.8	35.5	34	29.2	40	37	34.9	29.5	39.4	37.8	35.4	29.6	34.3	33.7	33.6	29.6
150					36.6	34.7	33.4		38.9	36.2	34.2	29.2	37.7	36.8	34.7	29.3	32.9	32.4	32.3	29.3
155					35.7	34	32.9		37.8	35.4	33.7	29	36.1	35.6	34	29.1	31.6	31.1	31	29.1
160					34.8	33.3	32.5		36.8	34.5	33.3	28.9	34.7	34.3	33.4	28.9	30.3	29.8	28.6	160
165					33.9	32.7	32.1		35.7	33.9	32.8		33.3	33.1	32.7	28.8	29	28.6	28.8	27.9
170					33.1	32.3	31.9		34.7	33.4	32.4		31.8	31.9	31.8	28.7	27.9	27.6	27.7	170
175					32.5	31.8			33.7	32.8	32.1		30.4	30.7	30.7		26.9	26.6	26.6	175
180					31.9	31.6			32.7	32.3	31.9		28.9	29.5	29.6		25.9	25.6	25.6	180
185					31.4				31.7	31.5	31.7		27.7	28.3	28.6		24.9	24.6	24.7	185
190									30.7	30.7			26.7	27.1	27.5		23.9	23.6	23.8	190
195									29.7	29.8			25.6	25.9	26.3		22.9	22.7	22.9	195
200									28.7				24.5	24.8	25.2		22	22	22.1	200
205													23.5	23.9			21.1	21.2	21.3	205
210													22.6	22.9			20.3	20.4	20.6	210
215													21.7				19.4	19.6	19.9	215
220													20.9				18.6	18.8		220
225													17.8	18			225			
230													17.1	17.3			230			
235													16.4				235			

*adapter · pièce d'adaptateur

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Lifting capacities
Forces de levage
TNZF 89 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*			
		89 ft				89 ft				89 ft				89 ft				89 ft			
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°
	18	129.2																			18
	19	126.7																			19
	20	124																			20
	22	118.6																			22
	24	113.2																			24
	26	107.8				103.2															26
	28	103.1				100.5				94.7											28
	30	99.7				97.7				92.9											30
	32	96.3				95				90.8				85							32
	34	92.9	78			92.2				88.7				83.4							34
	36	89.5	75.5			89.6				86.6				81.8				74.2			36
	38	86.1	73.1			87.5				84.5				80.2				73.1			38
	40	82.7	70.7			85.5				82.3				78.6				71.9			40
	45	76.1	65.3			80.5	66.1			78.3	64.3			74.8				69.1			45
	50	70.4	60.8	53.2		75.4	62.8			74.4	61.6			71.6	60.3			66.3			50
	55	64.7	56.2	49.9		71.2	60			70.5	58.9			68.6	58			64	55		55
	60	59.7	52.9	47.2		67.8	57.2	48.9		66.8	56.7	48.7		65.6	55.8			61.7	53.2		60
	65	55.9	49.8	44.7		64.4	54.5	46.8		64.1	54.4	46.7		62.7	53.9	46.1		59.5	51.5		65
	70	52.6	46.7	42.2		61	52.2	45		61.4	52.2	45		60.3	52	44.5		57.3	50	43.4	70
	75	49.2	44.1	40.3	32.6	58.1	49.8	43.2		58.7	50.3	43.4		58.2	50.2	43.1		55.2	48.5	42.1	75
	80	45.9	42	38.4	31.3	55.5	47.5	41.6	32	56.1	48.3	41.9		56	48.5	41.7		53.3	47.1	40.8	80
	85	42.8	40	36.6	30.2	53.2	45.6	40.1	31.1	53.6	46.4	40.6	31.3	53.9	46.9	40.3	31.4	51.4	45.7	39.7	85
	90	40.8	37.9	35.2	29.1	50.8	43.9	38.7	30.3	51.7	44.6	39.3	30.8	51.8	45.4	39.2	31	49.6	44.4	38.6	30.5
	95	38.7	36	33.8	28.1	48.4	42.3	37.5	29.5	49.8	43.1	38	30	50	43.8	38.1	30.3	47.7	43.2	37.5	29.9
	100	36.7	34.4	32.4	27.2	46	40.6	36.4	28.7	47.8	41.7	36.9	29.3	48.4	42.4	37	29.6	45.9	41.9	36.6	29.3
	105	34.7	33	31.1	26.4	43.9	39	35.2	28	45.9	40.2	35.9	28.7	46.9	41.2	35.9	29.1	44.1	40.6	35.7	28.7
	110	33.1	31.7	30.1	25.8	42.3	37.6	34.1	27.4	44	38.8	34.9	28.1	45.3	40	35.1	28.5	42.5	39.4	34.8	28.2
	115	31.8	30.3	29.1	25.1	40.8	36.5	33.2	26.8	42.2	37.5	33.9	27.6	43.7	38.8	34.3	28	40.9	38.3	34	27.7
	120	30.4	29.3	28.2	24.6	39.2	35.3	32.3	26.3	40.7	36.3	33	27	42.2	37.6	33.4	27.4	39.3	37.2	33.3	27.3
	125	29.1	28.3	27.3	24.2	37.6	34.1	31.4	25.8	39.4	35.3	32.2	26.6	40.7	36.4	32.6	26.9	37.7	36.2	32.6	26.8
	130	28	27.4	26.7	23.9	36.1	33	30.6	25.3	38.1	34.3	31.4	26.1	39.3	35.4	31.8	26.5	36.1	35.1	31.8	26.4
	135	27	26.6	26.2	23.9	34.8	32.1	29.9	24.9	36.8	33.3	30.7	25.7	38.2	34.5	31.2	26.1	34.5	34	31.1	26
	140	26.1	26	25.9	11	33.8	31.2	29.2	24.5	35.5	32.4	30	25.3	37.1	33.7	30.6	25.7	33.1	32.9	30.4	25.7
	145	25.6	25.6	22.1		32.7	30.4	28.6	24.2	34.3	31.5	29.3	25	36.1	32.8	29.9	25.4	31.9	31.8	29.7	25.4
	150					31.7	29.5	27.9	23.9	33.2	30.7	28.8	24.7	35	32	29.3	25.1	30.7	30.6	29	25.1
	155					30.6	28.8	27.4	23.7	32.4	30	28.2	24.5	33.9	31.2	28.8	24.8	29.6	29.5	28.3	24.8
	160					29.6	28.1	27	23.5	31.5	29.3	27.7	24.2	32.8	30.4	28.3	24.5	28.4	28.4	27.6	24.6
	165					28.9	27.5	26.5		30.6	28.6	27.2	23.8	31.6	29.7	27.8	24.3	27.3	27.2	26.8	24.4
	170					28.1	26.9	26.1		29.7	27.9	26.8	23.4	30.4	29.1	27.3	24.1	26.1	25.9	24.1	170
	175					27.4	26.4	25.9		28.9	27.4	26.5		29.2	28.4	26.9	23.9	25.1	25.2	25	175
	180					26.7	25.9	25.6		28.2	27	26.1		28.1	27.7	26.4	23.9	24.1	24.3	24.1	180
	185					26.1	25.6			27.6	26.5	25.8		26.9	27	25.9		23.2	23.4	23.1	23.1
	190					25.6	25.3			27	26	25.6		25.7	26.1	25.4		22.4	22.5	22.2	22.5
	195					25.2				26.4	25.7	25.4		24.6	25.1	24.8		21.5	21.6	21.4	21.7
	200									25.9	25.4			23.7	24.1	24.2		20.6	20.7	20.6	
	205									25.5	25.2			22.7	23.1	23.2		19.8	19.9	19.9	
	210									25.2				21.7	22.1	22.3		19	19.2	19.1	
	215													20.8	21.2			18.2	18.5	18.4	
	220													20	20.3			17.5	17.8	17.8	
	225													19.2	19.5			16.8	17.1	17.1	
	230														18.5			16.1	16.4		230
	235															15.4	15.8			235	
	240															14.8	15.1			240	
	245															14.2				245	

*adapter · pièce d'adaptateur

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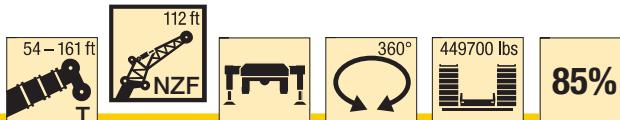


Lifting capacities
Forces de levage
TNZF 100 ft


 ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*								
	100 ft				100 ft				100 ft				100 ft				100 ft								
0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
19	113.4																							19	
20	111.6																							20	
22	107.2																							22	
24	102.8																							24	
26	98.4				92																			26	
28	94				89.7																			28	
30	90.1				87.4				82.6															30	
32	87.2				85				80.9															32	
34	84.4				82.7				79.1				73.3											34	
36	81.6				80.3				77.3				72											36	
38	78.7	66.4			78.1				75.5				70.6				64.2							38	
40	75.9	64.4			76.3				73.7				69.3				63.2							40	
45	69.2	59.7			72.2	59.5			69.9				66				60.8							45	
50	64.3	55.6			68	56.6			66.5	55.3			63				58.4							50	
55	59.8	51.9	45.5		64	53.9			63.2	52.9			60.5	51			56.2							55	
60	55.2	48.1	42.9		60.7	51.5			59.9	50.7			57.9	49.1			54.3	46.6						60	
65	51.2	45.3	40.5		57.9	49.3	41.7		57.2	48.8	41.5		55.4	47.3			52.4	45.1						65	
70	48.1	42.7	38.4		55	47.1	40		54.8	46.9	39.9		53	45.7	39.3		50.5	43.7						70	
75	45.4	40.2	36.3		52.1	45.1	38.4		52.5	45	38.4		51.1	44.1	38		48.6	42.4	36.9					75	
80	42.6	37.9	34.6	29	49.8	43.2	36.9		50.2	43.3	37.1		49.3	42.6	36.7		47	41.2	35.8					80	
85	39.8	36	33	27.8	47.6	41.2	35.5		48	41.7	35.7		47.5	41.2	35.5		45.5	39.9	34.8					85	
90	37.1	34.4	31.5	26.7	45.7	39.5	34.3	27.3	46	40.1	34.6	27.3	45.6	39.9	34.4		44.1	38.7	33.8					90	
95	35.2	32.7	30.1	25.7	43.7	38.1	33	26.6	44.4	38.6	33.5	26.6	43.8	38.6	33.3	26.4	42.7	37.7	32.8					95	
100	33.5	31	28.9	24.7	41.7	36.7	32	25.8	42.8	37.3	32.4	25.9	42.4	37.3	32.4	25.7	41.3	36.6	31.9	25.4				100	
105	31.9	29.4	27.8	23.9	39.7	35.2	31	25.1	41.2	36.1	31.4	25.3	41.1	36.1	31.4	25.1	40	35.6	31	24.8				105	
110	30.2	28.3	26.7	23.1	37.9	33.8	30	24.5	39.5	34.9	30.5	24.7	39.8	35.1	30.5	24.6	38.6	34.6	30.2	24.3				110	
115	28.6	27.1	25.6	22.4	36.5	32.5	29	23.9	37.9	33.6	29.6	24.1	38.5	34	29.7	24.1	37.3	33.6	29.5	23.8				115	
120	27.4	26	24.7	21.8	35.2	31.4	28.1	23.3	36.4	32.5	28.7	23.6	37.2	33	29	23.6	36.1	32.7	28.7	23.4				120	
125	26.2	24.9	24	21.2	33.8	30.4	27.4	22.8	35.1	31.3	27.9	23.1	35.9	32	28.3	23.1	34.8	31.9	28.1	23				125	
130	25.1	24	23.2	20.7	32.5	29.4	26.6	22.3	34	30.4	27.2	22.6	34.7	31	27.5	22.7	33.5	31.1	27.5	22.6				130	
135	24	23.3	22.4	20.4	31.1	28.4	25.8	21.9	32.8	29.6	26.5	22.2	33.5	30	26.8	22.3	32.3	30.2	26.9	22.2				135	
140	23	22.5	21.9	20.1	29.9	27.5	25.2	21.5	31.7	28.7	25.9	21.8	32.5	29.2	26.2	21.9	31	29.4	26.3	21.9				140	
145	22.3	21.7	21.4	20	29	26.8	24.6	21.1	30.6	27.8	25.2	21.4	31.6	28.5	25.7	21.5	29.8	28.6	25.6	21.5				145	
150	21.5	21.3	21	11	28.1	26.1	24	20.8	29.5	27	24.6	21.1	30.6	27.8	25.1	21.2	28.7	27.7	25.1	21.2				150	
155	21	20.9	21		27.2	25.3	23.4	20.5	28.5	26.3	24.1	20.8	29.7	27.1	24.6	20.9	27.7	26.9	24.7	20.9				155	
160					26.3	24.6	22.9	20.2	27.7	25.7	23.6	20.5	28.8	26.4	24	20.7	26.7	26.1	24.2	20.6				160	
165					25.4	23.9	22.5	20	26.9	25	23.2	20.2	27.9	25.7	23.6	20.4	25.7	25.3	23.8	20.4				165	
170					24.6	23.4	22.1	19.8	26.2	24.4	22.7	20	27	25.1	23.2	20.1	24.7	24.5	23.3	20.2				170	
175					23.9	22.9	21.7		25.4	23.8	22.3	19.8	26.3	24.6	22.8	20	23.8	23.6	22.8	20				175	
180					23.3	22.3	21.3		24.7	23.2	22	19.7	25.6	24.1	22.4	19.8	22.8	22.2	21.8	19.8				180	
185					22.7	21.8	21.1		23.9	22.8	21.6		24.9	23.6	22	19.6	21.9	22	21.5	19.7				185	
190					22.1	21.4	20.8		23.4	22.4	21.3		24.1	23.1	21.7	19.5	21.1	21.2	20.8	19.5				190	
195					21.6	21.1			22.9	22	21		23.4	22.5	21.4	19.5	20.3	20.4	20.1	19.4				195	
200					21.1	20.8			22.4	21.6	20.8		22.7	22	21.2		19.5	19.6	19.4	19.1				200	
205					20.7				21.8	21.2	20.7		21.9	21.4	20.9		18.7	18.8	18.7	18.8				205	
210									21.4	21	20.6		21.1	20.8	20.6		17.9	18	18					210	
215									21	20.7			20.2	20.3	20.1		17.1	17.4	17.4					215	
220									20.7				19.4	19.7	19.6		16.5	16.8	16.7					220	
225									20.4				18.5	18.9	19.1		15.9	16.1	16.1					225	
230													17.8	18.1			15.3	15.5	15.5					230	
235													17.1	17.3			14.7	14.9	14.9					235	
240													16.4				14.1	14.3	14.4					240	
245																	13.5	13.8						245	
250																	12.9	13.3						250	
255																	12.4								255
260																	11.9								260

*adapter · pièce d'adaptateur

t_198_003_00701_00_0

Lifting capacities
Forces de levage
TNZF 112 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				
		112 ft				112 ft				112 ft				112 ft				112 ft				
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	
	22	96.3																			22	
	24	92.6																			24	
	26	89																			26	
	28	85.4				79.7															28	
	30	81.8				77.7															30	
	32	78.4				75.8				71.7											32	
	34	76.1				73.8				70.2				64.8							34	
	36	73.8				71.9				68.7				63.7							36	
	38	71.5				69.9				67.2				62.6				57.3			38	
	40	69.1				68.1				65.6				61.4				56.5			40	
	45	63.3	55.6			64.3				62				58.6				54.5			45	
	50	58.3	51.7			60.8	50.5			59.1				55.9				52.4			50	
	55	54.6	48.4			57.2	48.1			56.3	47			53.5				50.2			55	
	60	50.9	45.2	39.2		54	45.9			53.4	45			51.3	43.4			48.5			60	
	65	47.2	42	37		51.5	44			50.6	43.2			49.2	41.8			46.9	39.7		65	
	70	44	39.6	35		49.1	42	35.9		48.6	41.6			47	40.3			45.3	38.5		70	
	75	41.4	37.4	33.2		46.8	40.2	34.3		46.6	40	34.2		45.1	39	33.5		43.6	37.2		75	
	80	39.1	35.2	31.4		44.4	38.6	33		44.6	38.4	32.9		43.5	37.6	32.5		42	36.1	31.4		80
	85	36.8	33.2	29.8		42.4	37	31.6		42.7	37	31.7		42	36.3	31.4		40.7	35.1	30.5		85
	90	34.4	31.5	28.5	24	40.7	35.4	30.4		40.9	35.7	30.6		40.4	35.1	30.4		39.5	34	29.6		90
	95	32.1	30	27.1	23	39	33.9	29.4	23.4	39.2	34.4	29.5		38.8	34.1	29.4		38.2	33	28.8		95
	100	30.3	28.6	25.9	22.1	37.4	32.7	28.3	22.7	37.9	33.1	28.6	22.7	37.3	33	28.4		37	32.1	28		100
	105	28.9	27.2	24.8	21.3	35.7	31.5	27.3	22	36.5	32	27.6	22	36.1	31.9	27.6	21.9	35.8	31.2	27.1		105
	110	27.5	25.8	23.8	20.5	34.1	30.3	26.4	21.4	35.2	30.9	26.7	21.4	35	30.9	26.8	21.3	34.7	30.3	26.4	21	110
	115	26.1	24.6	22.9	19.8	32.5	29	25.6	20.8	33.9	29.9	25.9	20.9	33.9	30	26	20.8	33.6	29.5	25.7	20.5	115
	120	24.7	23.6	21.9	19.1	31.3	27.9	24.7	20.3	32.5	28.8	25.2	20.4	32.8	29.1	25.2	20.3	32.6	28.7	25	20.1	120
	125	23.4	22.6	21	18.5	30.1	26.9	23.9	19.8	31.2	27.8	24.5	19.9	31.7	28.2	24.6	19.9	31.7	27.9	24.4	19.7	125
	130	22.5	21.7	20.4	18	29	26	23.2	19.3	30.1	26.8	23.7	19.5	30.7	27.3	24	19.5	30.7	27.2	23.7	19.3	130
	135	21.6	20.7	19.7	17.5	27.8	25.2	22.6	18.8	29.1	25.9	23	19	29.6	26.4	23.3	19.1	29.8	26.4	23.2	18.9	135
	140	20.6	20	19	17	26.7	24.3	21.9	18.4	28.1	25.2	22.4	18.6	28.5	25.6	22.7	18.7	28.8	25.7	22.7	18.6	140
	145	19.7	19.3	18.4	16.7	25.6	23.5	21.3	18	27.1	24.4	21.9	18.3	27.7	24.8	22.1	18.3	27.8	25	22.2	18.3	145
	150	18.9	18.7	17.9	16.5	24.7	22.7	20.7	17.7	26.2	23.7	21.3	17.9	26.9	24.2	21.6	18	26.9	24.3	21.6	18	150
	155	18.3	18	17.5	16.3	23.9	22.1	20.2	17.3	25.2	23	20.7	17.6	26.1	23.6	21.1	17.7	26	23.6	21.1	17.7	155
	160	17.6	17.6	17.1	13.8	23.1	21.4	19.7	17	24.3	22.3	20.2	17.3	25.3	22.9	20.6	17.4	25.1	23	20.7	17.4	160
	165	17.1	17.2	17.1		22.3	20.8	19.2	16.8	23.5	21.7	19.8	17	24.5	22.3	20.2	17.2	24.2	22.4	20.3	17.2	165
	170					21.6	20.2	18.7	16.5	22.9	21.2	19.4	16.7	23.7	21.7	19.7	16.9	23.3	21.9	19.9	16.9	170
	175					20.8	19.6	18.4	16.3	22.2	20.6	19	16.5	22.9	21.1	19.3	16.7	22.5	21.4	19.5	16.7	175
	180					20.2	19.2	18	16.2	21.5	20.1	18.6	16.3	22.3	20.7	19	16.5	21.6	20.8	19.1	16.5	180
	185					19.6	18.7	17.7		20.9	19.6	18.2	16.2	21.7	20.2	18.6	16.3	20.7	20.3	18.7	16.3	185
	190					19.1	18.3	17.4		20.2	19.1	17.9	16	21.2	19.8	18.3	16.2	19.8	19.7	18.3	16.2	190
	195					18.6	17.9	17.2		19.6	18.7	17.6	15.9	20.6	19.4	18	16	19.1	19	17.9	16	195
	200					18	17.5	17		19.2	18.3	17.3		20.1	18.9	17.7	15.9	18.4	18.3	17.5	15.9	200
	205					17.6	17.2	16.8		18.7	18	17.1		19.6	18.5	17.4	15.9	17.7	17.6	17	15.8	205
	210					17.2	16.9			18.3	17.6	16.9		19	18.2	17.2		17	16.9	16.6	15.7	210
	215					16.9				17.8	17.3	16.8		18.4	17.9	17		16.3	16.2	16.1	15.6	215
	220									17.4	17.1	16.7		17.8	17.6	16.8		15.6	15.5	15.5		220
	225									17.1	16.8			17.2	17.3	16.7		14.9	14.9	14.9		225
	230									16.8	16.7			16.6	16.9	16.6		14.3	14.3	14.3		230
	235									16.6				15.9	16.4	16.4		13.7	13.7	13.7		235
	240													15.4	15.7			13.2	13.2	13.2		240
	245													14.7	15.1			12.7	12.6	12.7		245
	250													14.2				12.1	12.1	12.2		250
	255																	11.6	11.6			255
	260																	11.1	11.2			260
	265																	10.6				265
	270																	10.1				270

*adapter · pièce d'adaptateur

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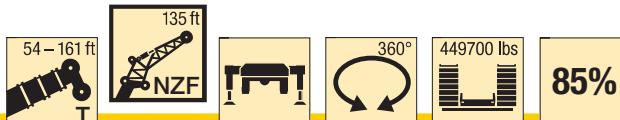
Lifting capacities Forces de levage

TNZF 123 ft



*adapter · pièce d'adaptateur

t_198_003_00901_00_000

Lifting capacities
Forces de levage
TNZF 135 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				
		135 ft				135 ft				135 ft				135 ft				135 ft				
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	
	24	75.8																			24	
	26	73.4																			26	
	28	70.9																			28	
	30	68.5				62.3															30	
	32	66				61															32	
	34	63.6				59.7				56.6											34	
	36	61.2				58.3				55.6											36	
	38	59.5				57				54.4				50.4							38	
	40	57.8				55.7				53.3				49.5							40	
	45	53.8				52.4				50.5				47.4				43.1			45	
	50	49.7	43.4			49.9				48				45.2				41.5			50	
	55	45.8	40.7			47.3				45.8				43.2				39.9			55	
	60	43.2	38.2			44.7	37.2			43.7	36.1			41.5				38.3			60	
	65	40.6	36			42.3	35.4			41.6	34.6			39.8	33.2			37			65	
	70	38.1	33.9	30.5		40.3	33.9			39.6	33.2			38.2	32			35.8	31.1		70	
	75	35.6	31.8	28.8		38.6	32.5			37.9	31.9			36.6	30.8			34.6	30.1		75	
	80	33.4	29.9	27.2		36.8	31.1	27.7		36.4	30.7			35	29.8			33.3	29.2		80	
	85	31.6	28.4	25.8		35	29.8	26.5		34.9	29.5	26.2		33.8	28.8			32.1	28.3		85	
	90	29.9	26.8	24.5		33.4	28.7	25.5		33.5	28.4	25.3		32.6	27.8	24.7		31	27.5		90	
	95	28.2	25.2	23.2		31.9	27.6	24.5		32	27.4	24.5		31.5	26.8	24		30.1	26.6	23.2	95	
	100	26.5	23.8	22.1		30.7	26.5	23.5		30.6	26.5	23.6		30.3	25.9	23.3		29.2	25.8	22.5	100	
	105	24.8	22.7	21.1	17.4	29.5	25.4	22.6		29.5	25.6	22.7		29.1	25.1	22.5		28.2	25	21.9	105	
	110	23.1	21.7	20.1	16.6	28.4	24.5	21.8		28.6	24.6	21.9		28.1	24.3	21.8		27.3	24.3	21.3	110	
	115	22	20.6	19.1	15.9	27.2	23.6	20.9	16.2	27.6	23.7	21.2		27.2	23.6	21.1		26.4	23.7	20.7	115	
	120	21	19.6	18.2	15.3	26	22.6	20.2	15.7	26.6	23	20.4	15.7	26.4	22.8	20.4	15.5	25.6	23.1	20.1	120	
	125	20	18.6	17.5	14.7	24.8	21.7	19.5	15.2	25.6	22.2	19.7	15.2	25.6	22.1	19.8	15.1	24.8	22.4	19.5	14.8	125
	130	18.9	17.6	16.8	14.1	23.9	20.8	18.9	14.8	24.7	21.4	19.1	14.8	24.8	21.4	19.2	14.7	24.1	21.8	19	14.5	130
	135	17.9	16.9	16.1	13.6	22.9	20	18.2	14.3	23.7	20.7	18.5	14.4	24	20.8	18.6	14.4	23.5	21.2	18.4	14.1	135
	140	16.9	16.2	15.4	13.1	22.1	19.2	17.5	14	22.8	19.9	18	14	23.2	20.1	18.1	14	22.8	20.6	17.9	13.8	140
	145	16.2	15.5	14.8	12.6	21.2	18.6	17	13.6	22	19.1	17.4	13.7	22.4	19.5	17.6	13.6	22.2	20.1	17.4	13.5	145
	150	15.5	14.8	14.3	12.3	20.3	18	16.5	13.2	21.3	18.5	16.8	13.3	21.6	18.8	17.1	13.3	21.5	19.5	17	13.2	150
	155	14.8	14.1	13.7	11.9	19.5	17.3	16	12.9	20.5	17.9	16.3	13	20.9	18.2	16.6	13	20.9	19	16.6	12.9	155
	160	14.2	13.6	13.2	11.5	18.6	16.7	15.5	12.5	19.8	17.4	15.9	12.7	20.2	17.6	16.1	12.7	20.2	18.4	16.1	12.7	160
	165	13.5	13.1	12.7	11.2	17.9	16.1	15	12.2	19.1	16.8	15.5	12.4	19.6	17.1	15.7	12.5	19.6	17.9	15.7	12.4	165
	170	12.9	12.6	12.3	11	17.3	15.6	14.5	11.9	18.3	16.2	15	12.1	19	16.6	15.3	12.2	19	17.4	15.3	12.2	170
	175	12.4	12.2	12	10.8	16.7	15.1	14.2	11.7	17.6	15.7	14.6	11.9	18.4	16.2	14.9	12	18.4	16.9	15	11.9	175
	180	12	11.8	11.7	10.7	16.2	14.6	13.8	11.4	17	15.2	14.2	11.6	17.8	15.7	14.6	11.7	17.9	16.5	14.6	11.7	180
	185	11.5	11.5	11.5	10.7	15.6	14.2	13.4	11.2	16.5	14.8	13.9	11.4	17.2	15.2	14.2	11.5	17.3	16.1	14.3	11.5	185
	190	11.2	11.2	11.5		15	13.7	13	11	16	14.4	13.6	11.2	16.6	14.8	13.8	11.3	16.8	15.7	14	11.4	190
	195					14.4	13.3	12.7	10.9	15.5	14	13.2	11	16.1	14.4	13.5	11.2	16.2	15.3	13.7	11.2	195
	200					14	12.9	12.4	10.7	15	13.6	12.9	10.9	15.6	14	13.3	11	15.6	14.8	13.4	11	200
	205					13.5	12.6	12.2	10.6	14.5	13.2	12.6	10.7	15.2	13.7	13	10.8	15.1	14.4	13.1	10.9	205
	210					13.1	12.3	11.9		14	12.9	12.4	10.6	14.8	13.4	12.7	10.7	14.5	14	12.8	10.7	210
	215					12.7	11.9	11.7		13.6	12.6	12.2	10.5	14.4	13	12.4	10.6	14	13.6	12.6	10.6	215
	220					12.3	11.7	11.5		13.2	12.3	11.9		13.9	12.7	12.2	10.5	13.4	13.2	12.4	10.5	220
	225					12	11.4	11.3		12.8	12	11.7		13.5	12.4	12	10.4	12.9	12.8	12.2	10.4	225
	230					11.7	11.2			12.5	11.7	11.5		13.1	12.1	11.8		12.4	12.4	12	10.4	230
	235					11.4	11.1			12.2	11.4	11.4		12.8	11.9	11.6		11.8	12	11.7	10.3	235
	240					11.1				11.8	11.3	11.2		12.5	11.7	11.4		11.3	11.5	11.3	10.3	240
	245									11.6	11.1			12.2	11.5	11.3		10.7	11.1	10.9		245
	250									11.3	11			11.9	11.2	11.2		10.3	10.7	10.5		250
	255									11.1				11.6	11.1	11.1		9.9	10.2	10.1		255
	260													11.3	10.9			9.5	9.7	9.7		260
	265													11	10.8			9.1	9.3	9.4		265
	270													10.6	10.7			8.7	8.9	9		270
	275													10.2				8.3	8.5			275
	280																7.9	8.1			280	
	285																7.5	7.8			285	
	290																7.1				290	

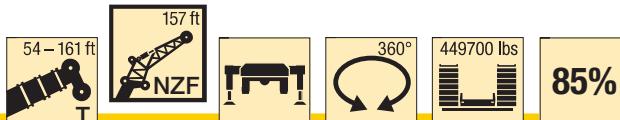
*adapter · pièce d'adaptateur

Lifting capacities
Forces de levage
TNZF 146 ft


ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*					
	146 ft				146 ft				146 ft				146 ft				146 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
26	66.7																			26		
28	64.7																			28		
30	62.6				55.3															30		
32	60.5					54.2														32		
34	58.5						50.1													34		
36	56.4				53			50.1												36		
38	54.4					51.8			49.1											38		
40	52.9					50.6			48.1				44.5							40		
45	49.3					47.6			45.7				42.7				38.7			45		
50	45.9					45.1			43.3				40.8				37.3			50		
55	42.5	37.6				42.9			41.3				39				35.9			55		
60	39.5	35.3				40.7	33.7		39.5				37.4				34.5			60		
65	37.4	33.2				38.5	32.3		37.7	31.3			35.9				33.2			65		
70	35.2	31.4				36.5	30.8		35.9	30.2			34.5	29.7			32.1			70		
75	33.1	29.6				35	29.5		34.2	29.3			33.1	28.7			31	27.1		75		
80	31	27.9	25.4			33.4	28.3		32.8	28.3			31.7	27.6			29.9	26.2		80		
85	29.1	26.3	24			31.9	27.1	24.1	31.6	27.3			30.4	26.6			28.8	25.4		85		
90	27.6	25	22.7			30.4	25.9	23.2	30.3	26.3	22.8		29.4	25.8			27.8	24.6		90		
95	26.1	23.6	21.6			29	25	22.3	29	25.3	22.1		28.4	24.9	21.5		26.9	23.9		95		
100	24.7	22.2	20.4			27.8	24	21.4	27.8	24.4	21.3		27.3	24	20.8		26	23.1	20	100		
105	23.2	21	19.4			26.7	23.1	20.6	26.6	23.6	20.6		26.3	23.2	20.2		25.2	22.4	19.5	105		
110	21.8	19.9	18.5			25.7	22.2	19.7	25.6	22.8	19.8		25.3	22.5	19.6		24.4	21.7	18.9	110		
115	20.4	19	17.7	14.6		24.7	21.3	19	24.8	22	19.1		24.4	21.8	19		23.6	21.1	18.4	115		
120	19.2	18.1	16.8	13.9		23.7	20.5	18.3	23.9	21.2	18.4		23.6	21.1	18.3		22.8	20.5	17.9	120		
125	18.3	17.2	16	13.3		22.7	19.7	17.6	13.6	23.1	20.5	17.8	13.5	22.9	20.4	17.8		22.1	20	17.4	125	
130	17.5	16.3	15.3	12.8		21.7	18.9	16.9	13.1	22.2	19.8	17.1	13.1	22.2	19.8	17.2	13	21.3	19.4	16.9	130	
135	16.6	15.4	14.7	12.2		20.8	18.1	16.4	12.7	21.4	19.1	16.6	12.7	21.5	19.2	16.6	12.6	20.8	18.9	16.4	135	
140	15.7	14.7	14	11.8		20	17.4	15.8	12.3	20.5	18.5	16	12.4	20.8	18.6	16.1	12.3	20.2	18.3	16	140	
145	14.8	14.1	13.4	11.3		19.2	16.7	15.2	11.9	19.8	17.8	15.6	12	20.1	18.1	15.6	11.9	19.6	17.8	15.5	145	
150	14	13.5	12.8	10.8		18.5	16.1	14.6	11.6	19	17.1	15	11.7	19.3	17.5	15.2	11.6	19.1	17.3	15	150	
155	13.4	12.9	12.2	10.5		17.7	15.5	14.2	11.3	18.4	16.5	14.5	11.3	18.6	16.9	14.7	11.3	18.5	16.9	14.6	155	
160	12.8	12.2	11.8	10.1		17	15	13.7	10.9	17.8	15.9	14.1	11	18	16.3	14.3	11	17.9	16.4	14.2	160	
165	12.3	11.7	11.4	9.8		16.2	14.4	13.3	10.6	17.1	15.4	13.6	10.7	17.4	15.8	13.9	10.8	17.4	15.9	13.9	165	
170	11.7	11.2	10.9	9.4		15.5	13.9	12.8	10.3	16.5	15	13.3	10.5	16.9	15.3	13.5	10.5	16.8	15.4	13.5	170	
175	11.1	10.8	10.5	9.2		15	13.3	12.4	10.1	15.9	14.5	12.9	10.2	16.4	14.9	13.1	10.3	16.3	15	13.1	175	
180	10.6	10.4	10.1	9		14.4	12.9	12.1	9.8	15.2	14	12.5	10	15.9	14.5	12.7	10	15.9	14.5	12.8	180	
185	10.2	10	9.8	8.8		13.9	12.5	11.7	9.6	14.7	13.5	12.1	9.7	15.3	14	12.4	9.8	15.4	14.1	12.4	185	
190	9.8	9.6	9.6	8.8		13.4	12.1	11.4	9.4	14.2	13.1	11.8	9.5	14.8	13.6	12.1	9.6	15	13.8	12.1	9.6	190
195	9.4	9.4	9.3	8.8		12.9	11.7	11.1	9.2	13.7	12.7	11.5	9.3	14.3	13.2	11.8	9.4	14.6	13.4	11.9	9.4	195
200	9.2	9.1	9.3			12.4	11.3	10.7	9	13.3	12.3	11.2	9.2	13.8	12.8	11.5	9.3	14.1	13.1	11.6	9.3	200
205						11.9	10.9	10.5	8.9	12.9	12	10.9	9	13.4	12.4	11.2	9.1	13.7	12.7	11.3	9.1	205
210						11.5	10.6	10.2	8.8	12.4	11.6	10.6	8.9	13	12.1	10.9	8.9	13.3	12.3	11	9	210
215						11.2	10.3	10	8.6	12	11.3	10.3	8.8	12.6	11.8	10.7	8.8	12.8	12	10.7	8.8	215
220						10.8	10	9.7		11.5	10.9	10.1	8.6	12.2	11.5	10.4	8.7	12.4	11.7	10.5	8.7	220
225						10.5	9.7	9.5		11.2	10.7	9.9	8.6	11.9	11.2	10.2	8.6	11.9	11.4	10.3	8.6	225
230						10.1	9.5	9.4		10.9	10.4	9.7		11.5	10.9	10	8.5	11.5	11.1	10.2	8.6	230
235						9.8	9.3	9.2		10.6	10.1	9.5		11.1	10.6	9.8	8.5	11	10.8	10	8.5	235
240						9.5	9.1			10.2	9.9	9.3		10.7	10.3	9.6	8.4	10.6	10.6	9.7	8.4	240
245						9.3	9			9.9	9.6	9.2		10.5	10.1	9.5		10.1	10.3	9.5	8.4	245
250						9				9.6	9.4	9.1		10.2	9.9	9.3		9.7	10	9.3	8.4	250
255										9.4	9.3	9		9.9	9.7	9.1		9.2	9.6	9.1		255
260										9.2	9.1			9.7	9.5	9.1		8.8	9.3	8.9		260
265										9				9.4	9.3	9		8.5	8.9	8.7		265
270										8.9				9.2	9.2	9		8.1	8.5	8.5		270
275											9	9.1			7.8	8.1	8.2				275	
280											8.9	9			7.4	7.8	7.8				280	
285												8.8				7	7.4	7.5				285
290																6.7	7.1					290
295																6.4	6.7					295
300																6						300
305																5.7						305

*adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TNZF 157 ft


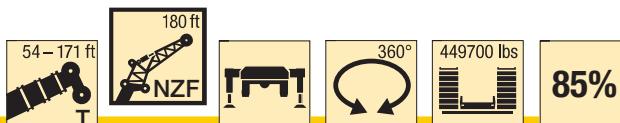
D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*			
		157 ft				157 ft				157 ft				157 ft				157 ft			
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°
	28	59.5																			28
	30	57.8																			30
	32	56																			32
	34	54.3				48.7															34
	36	52.5				47.8															36
	38	50.7				46.7															38
	40	49				45.7															40
	45	45.7				43.1															45
	50	42.8				40.6															50
	55	39.8				38.7															55
	60	36.9	32.5			36.8															60
	65	34.6	30.5			34.9	30														65
	70	32.7	28.7			33.1	28.7														70
	75	30.9	27.2			31.5	27.4														75
	80	29	25.8			30.2	26.3														80
	85	27.2	24.3	22.2		28.8	25.2														85
	90	25.6	23	20.9		27.5	24.1	20.7													90
	95	24.3	21.8	19.7		26.2	23.1	20													95
	100	23.1	20.6	18.8		25	22.2	19.2													100
	105	21.8	19.4	17.8		23.9	21.4	18.5													105
	110	20.6	18.3	16.8		23	20.5	17.7													110
	115	19.4	17.2	16		22.1	19.7	17													115
	120	18.1	16.4	15.2		21.3	18.9	16.4													120
	125	17	15.6	14.5	11.9	20.4	18.2	15.7													125
	130	16.2	14.9	13.7	11.3	19.5	17.6	15.1	11.5												130
	135	15.4	14.1	13	10.8	18.7	16.9	14.5	11												135
	140	14.6	13.3	12.5	10.4	17.9	16.2	14	10.6												140
	145	13.9	12.5	11.9	9.9	17.1	15.5	13.4	10.3												145
	150	13.1	12	11.4	9.5	16.5	14.9	12.9	9.9												150
	155	12.3	11.4	10.9	9.1	15.8	14.3	12.4	9.6												155
	160	11.7	10.9	10.3	8.7	15.2	13.7	12	9.3												160
	165	11.1	10.4	9.9	8.4	14.5	13.2	11.5	9												165
	170	10.6	9.8	9.5	8.1	13.9	12.7	11.2	8.8												170
	175	10.1	9.3	9.2	7.9	13.2	12.2	10.8	8.5												175
	180	9.6	9	8.8	7.6	12.7	11.7	10.4	8.3												180
	185	9.1	8.7	8.5	7.4	12.2	11.3	10	8.1												185
	190	8.7	8.4	8.1	7.2	11.8	10.9	9.7	7.9												190
	195	8.4	8	7.9	7.1	11.3	10.5	9.4	7.7												195
	200	8	7.7	7.7	7	10.9	10.1	9.1	7.5												200
	205	7.7	7.6	7.5	7	10.4	9.7	8.9	7.4												205
	210	7.5	7.4	7.5		9.9	9.4	8.6	7.2												210
	215	7.3	7.3			9.5	9	8.4	7.1												215
	220					9.2	8.8	8.2	7												220
	225					8.9	8.6	8	6.9												225
	230					8.6	8.3	7.8													230
	235					8.4	8.1	7.7													235
	240					8.1	7.9	7.5													240
	245					7.8	7.7	7.4													245
	250					7.6	7.6	7.3													250
	255					7.4	7.4														255
	260					7.3															260
	265																				265
	270																				270
	275																				275
	280																				280
	285																				285
	290																				290
	295																				295
	300																				300
	305																				305
	310																				310
	315																				315

*adapter · pièce d'adaptateur

t_198_003_01201_00_000

Lifting capacities
Forces de levage
TNZF 169 ft


ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				
	169 ft				169 ft				169 ft				169 ft				169 ft				
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	
28	54																			28	
30	52.5																			30	
32	51.1																			32	
34	49.6																			34	
36	48.1				43.1															36	
38	46.7				42.3				39.6											38	
40	45.2				41.4				39											40	
45	42				39.2				37.3				34.5				31.3				45
50	39.4				37				35.5				33.1				30.4				50
55	36.9				35.2				33.7				31.7				29.4				55
60	34.5	30.9			33.6				32.2				30.3				28.5				60
65	32	29.2			31.9				30.9				29.1				27.5				65
70	30.2	27.5			30.3	26.2			29.5				28				26.6				70
75	28.7	25.9			28.6	25.1			28.2	24.4			26.9				25.8				75
80	27.1	24.7			27.5	24			26.8	23.4			25.8	22.4			24.9				80
85	25.5	23.4			26.3	23			25.7	22.5			24.7	21.6			24	20.4			85
90	23.9	22.1	19.7		25.1	22.1			24.7	21.6			23.6	20.8			23.2	19.7			90
95	22.5	20.9	18.6		24	21.2			23.7	20.8			22.8	20.1			22.3	19			95
100	21.4	19.8	17.5		22.9	20.3	17.5		22.8	20	17.1		22	19.4			21.5	18.4			100
105	20.3	18.8	16.6		21.8	19.5	16.9		21.8	19.2	16.6		21.2	18.7	16.1		20.9	17.9			105
110	19.3	17.8	15.8		20.9	18.8	16.2		20.8	18.5	16		20.4	18	15.5		20.3	17.3			110
115	18.2	16.7	14.9		20.1	18	15.6		19.9	17.9	15.5		19.7	17.4	15		19.6	16.8	14.4		115
120	17.2	15.8	14.1		19.4	17.3	15		19.2	17.3	14.9		18.9	16.9	14.6		19	16.2	14		120
125	16.1	15	13.5		18.6	16.6	14.4		18.6	16.6	14.4		18.2	16.3	14.1		18.3	15.7	13.6		125
130	15.1	14.3	12.8	10.5	17.8	16	13.8		17.9	16	13.9		17.6	15.8	13.7		17.7	15.3	13.2		130
135	14.3	13.6	12.2	10	17.1	15.4	13.2		17.3	15.4	13.4		17	15.3	13.2		17.1	14.8	12.8		135
140	13.6	12.9	11.5	9.5	16.3	14.8	12.7	9.6	16.6	14.9	12.9		16.5	14.8	12.8		16.5	14.4	12.5		140
145	12.9	12.2	11	9.1	15.6	14.2	12.2	9.2	16	14.4	12.3	9.2	15.9	14.3	12.3		16.1	13.9	12.1		145
150	12.3	11.5	10.5	8.7	14.9	13.6	11.7	8.9	15.3	13.9	11.9	8.9	15.4	13.8	11.9	8.8	15.6	13.5	11.7		150
155	11.6	10.9	10	8.3	14.4	13	11.3	8.7	14.7	13.4	11.5	8.6	14.8	13.4	11.5	8.6	15.2	13.1	11.4	8.4	155
160	10.9	10.4	9.6	8	13.8	12.4	10.8	8.4	14.1	12.9	11.1	8.4	14.3	13	11.1	8.3	14.7	12.7	11	8.2	160
165	10.3	9.9	9.1	7.7	13.2	12	10.4	8.1	13.6	12.4	10.7	8.1	13.7	12.5	10.8	8.1	14.3	12.3	10.6	8	165
170	9.7	9.5	8.7	7.4	12.7	11.5	10	7.9	13.1	11.9	10.3	7.9	13.2	12.1	10.4	7.9	13.8	12	10.3	7.8	170
175	9.3	9	8.3	7.1	12.1	11.1	9.7	7.6	12.7	11.5	9.9	7.7	12.8	11.7	10.1	7.7	13.4	11.6	10	7.6	175
180	8.9	8.6	8	6.9	11.6	10.6	9.4	7.4	12.2	11.1	9.6	7.5	12.3	11.3	9.7	7.5	12.9	11.3	9.7	7.4	180
185	8.5	8.2	7.7	6.7	11.1	10.2	9	7.2	11.7	10.7	9.3	7.3	11.9	10.9	9.4	7.3	12.5	10.9	9.4	7.2	185
190	8.1	7.8	7.4	6.5	10.6	9.7	8.7	7	11.2	10.3	9	7.1	11.5	10.6	9.1	7.1	12.1	10.5	9.2	7.1	190
195	7.7	7.6	7.1	6.2	10.2	9.4	8.4	6.8	10.8	9.7	8.7	6.9	11.1	10.2	8.8	6.9	11.7	10.2	8.9	6.9	195
200	7.3	7.3	6.9	6.1	9.8	9.1	8.2	6.7	10.3	9.5	8.4	6.7	10.8	9.9	8.6	6.8	11.4	9.9	8.6	6.8	200
205	7.1	7	6.7	6	9.5	8.8	7.9	6.5	9.9	9.2	8.2	6.6	10.4	9.6	8.4	6.7	11.1	9.7	8.4	6.6	205
210	6.8	6.7	6.5	5.8	9.1	8.5	7.7	6.3	9.6	8.9	8	6.4	10	9.2	8.2	6.5	10.7	9.4	8.2	6.5	210
215	6.5	6.5	6.3	5.8	8.7	8.2	7.5	6.2	9.3	8.6	7.8	6.3	9.6	8.9	7.9	6.4	10.4	9.1	8	6.4	215
220	6.3	6.3	6.2		8.3	7.9	7.2	6.1	9	8.4	7.5	6.2	9.3	8.6	7.7	6.2	10	8.9	7.8	6.2	220
225	6.2	6.2	6.2		8	7.7	7.1	5.9	8.7	8.1	7.4	6	9	8.4	7.5	6.1	9.7	8.6	7.6	6.1	225
230					7.7	7.5	6.9	5.8	8.4	7.9	7.2	5.9	8.7	8.2	7.4	6	9.4	8.3	7.4	6	230
235					7.5	7.3	6.7	5.8	8	7.6	7	5.8	8.5	8	7.2	5.9	9	8.1	7.3	5.9	235
240					7.3	7	6.6		7.7	7.4	6.8	5.7	8.2	7.7	7	5.8	8.7	7.9	7.1	5.8	240
245					7	6.9	6.4		7.5	7.2	6.7	5.7	8	7.5	6.9	5.7	8.4	7.7	7	5.7	245
250					6.8	6.6	6.3		7.3	7	6.6	5.6	7.7	7.3	6.7	5.6	8.1	7.5	6.9	5.7	250
255					6.6	6.5	6.2		7.1	6.8	6.4		7.4	7.1	6.6	5.6	7.8	7.3	6.7	5.6	255
260					6.4	6.3	6.1		6.9	6.7	6.3		7.2	6.9	6.5	5.5	7.4	7.2	6.6	5.5	260
265					6.2	6.2			6.7	6.5	6.2		7	6.8	6.4		7.1	7	6.4	5.5	265
270					6.1	6.1			6.4	6.4	6.1		6.8	6.7	6.2		6.8	6.8	6.3	5.5	270
275					5.9				6.3	6.2	6		6.7	6.5	6.1		6.5	6.6	6.2		275
280									6.1	6.1			6.5	6.4	6.1		6.2	6.3	6.1		280
285									6	6			6.3	6.2	6		5.9	6	5.9		285
290									5.9				6.2	6.1	5.9		5.6	5.7	5.8		290
295													6	6	6.1		5.2	5.4	5.6		295
300													5.9	6			4.9	5	5.2		300
305													5.8				4.6	4.7	4.9		305
310																	4.3	4.5			310
315																	4	4.2			315
320																					

Lifting capacities
Forces de levage
TNZF 180 ft


D	ft	54 ft + 9 ft*				107 ft + 9 ft*				125 ft + 9 ft*				143 ft + 9 ft*				161 ft + 9 ft*				ft	
		180 ft				180 ft				180 ft				180 ft				180 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	30	47.7																					30
	32	46.5																					32
	34	45.2																					34
	36	44																					36
	38	42.7				38.2																	38
	40	41.5				37.4				35.1													40
	45	38.5				35.5				33.6													45
	50	36				33.6				32													50
	55	33.9				31.8				30.4													55
	60	31.7				30.3				29													60
	65	29.6	26.7			28.9				27.7													65
	70	27.6	25.3			27.4				26.6													70
	75	26.2	23.8			26	22.7			25.4	21.8												75
	80	24.8	22.5			24.7	21.7			24.2	21												80
	85	23.4	21.4			23.6	20.7			23.1	20.1												85
	90	22	20.3			22.6	19.9			22.1	19.3												90
	95	20.7	19.1	17.1		21.6	19			21.2	18.6												95
	100	19.4	18.1	16.1		20.6	18.2			20.4	17.9												100
	105	18.5	17.1	15.2		19.6	17.4	15		19.5	17.2												105
	110	17.6	16.2	14.4		18.7	16.7	14.4		18.7	16.4	14.1											110
	115	16.6	15.4	13.6		17.9	16.1	13.8		17.8	15.8	13.6											115
	120	15.7	14.5	12.9		17.2	15.4	13.3		17	15.2	13.1											120
	125	14.8	13.6	12.1		16.5	14.8	12.8		16.4	14.7	12.6											125
	130	13.9	12.9	11.5		15.9	14.1	12.2		15.8	14.1	12.2											130
	135	13	12.3	10.9		15.2	13.6	11.7		15.2	13.5	11.7											135
	140	12.3	11.6	10.3	8.4	14.5	13.1	11.2		14.7	13	11.3											140
	145	11.6	11	9.8	8	13.8	12.6	10.7		14.1	12.6	10.8											145
	150	11	10.4	9.2	7.7	13.2	12	10.3	7.8	13.5	12.2	10.4											150
	155	10.5	9.8	8.8	7.3	12.6	11.5	9.9	7.5	12.9	11.7	10	7.5										155
	160	9.9	9.1	8.4	7	12.1	11	9.5	7.2	12.4	11.3	9.6	7.2										160
	165	9.3	8.7	8.1	6.7	11.6	10.5	9.1	6.9	11.8	10.9	9.3	6.9										165
	170	8.7	8.3	7.7	6.3	11.1	10.1	8.8	6.6	11.4	10.4	9	6.6										170
	175	8.2	8	7.4	6	10.6	9.7	8.4	6.3	11	10	8.7	6.4										175
	180	7.7	7.6	7		10.2	9.4	8.1	6.1	10.6	9.7	8.3	6.1										180
	185	7.3	7.2	6.7		9.7	9	7.8	5.8	10.2	9.3	8	5.9										185
	190	6.9	6.9	6.4		9.2	8.6	7.5	5.6	9.8	9	7.7	5.7										190
	195	6.5	6.6	6.1		8.8	8.2	7.3	5.3	9.4	8.7	7.5	5.5										195
	200	6	6.3	5.8		8.4	7.9	7	5.1	9	8.3	7.3	5.3										200
	205	6	5.5			8.1	7.6	6.8	4.9	8.6	8	7	5.1										205
	210	5.8				7.8	7.3	6.6	4.7	8.2	7.7	6.8	4.9										210
	215	5.5				7.5	7.1	6.4	4.6	8	7.4	6.6	4.7										215
	220					7.2	6.8	6.2	4.4	7.7	7.2	6.4	4.6										220
	225					6.9	6.6	5.9	4.3	7.4	7	6.2	4.4										225
	230					6.6	6.3	5.7	4.1	7.1	6.7	6	4.3										230
	235					6.4	6.1	5.6	4	6.9	6.5	5.8	4.2										235
	240					6.1	5.9	5.4	3.9	6.6	6.3	5.7	4.1										240
	245					5.9	5.7	5.3	3.9	6.3	6.1	5.5	4										245
	250					5.7	5.6	5.1	3.8	6.1	5.9	5.3	3.9										250
	255					5.5	5.4	4.9		5.8	5.7	5.2	3.8										255
	260					5.3	5.2	4.8		5.7	5.5	5.1	3.8										260
	265					5.1	5	4.8		5.5	5.4	4.9											265
	270					4.9	4.9	4.7		5.3	5.2	4.8											270
	275					4.8	4.8			5.1	5	4.7											275
	280					4.6	4.7			4.9	4.9	4.6											280
	285					4.5				4.7	4.8	4.6											285
	290									4.6	4.7												290
	295									4.5	4.6												295
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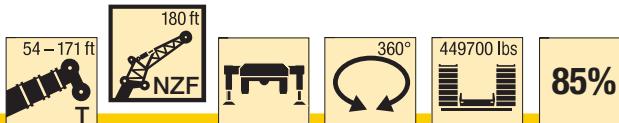
*adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

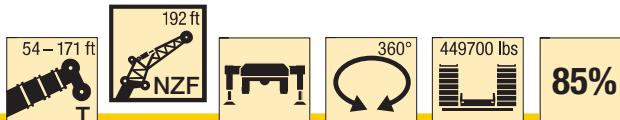
TNZF 180 ft



 ft	164 ft + 9 ft*				167 ft + 9 ft*				171 ft + 9 ft*				 ft	
	180 ft				180 ft				180 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
50	26.9				26.4				26				50	
55	26				25.6				25.2				55	
60	25.1				24.7				24.3				60	
65	24.2				23.8				23.5				65	
70	23.3				22.9				22.7				70	
75	22.5				22.2				21.9				75	
80	21.8				21.5				21.2				80	
85	21				20.7				20.5				85	
90	20.3	17.2			20	16.9			19.9	16.8			90	
95	19.6	16.6			19.3	16.4			19.2	16.2			95	
100	18.9	16			18.6	15.9			18.5	15.7			100	
105	18.2	15.5			18	15.3			17.8	15.2			105	
110	17.6	15			17.4	14.9			17.3	14.7			110	
115	17.1	14.5			16.9	14.4			16.7	14.3			115	
120	16.5	14	12		16.4	13.9	11.9		16.2	13.8	11.8		120	
125	16	13.6	11.6		15.8	13.4	11.5		15.7	13.3	11.4		125	
130	15.4	13.1	11.2		15.3	13	11.2		15.2	12.9	11.1		130	
135	14.9	12.7	10.9		14.8	12.6	10.8		14.7	12.5	10.7		135	
140	14.3	12.3	10.6		14.3	12.2	10.5		14.2	12.1	10.4		140	
145	13.8	11.9	10.2		13.7	11.9	10.2		13.7	11.8	10.1		145	
150	13.4	11.6	9.9		13.3	11.5	9.8		13.2	11.4	9.8		150	
155	13	11.2	9.6		12.9	11.1	9.5		12.9	11.1	9.5		155	
160	12.7	10.8	9.3		12.6	10.7	9.3		12.5	10.7	9.2		160	
165	12.3	10.5	9	6.5	12.2	10.4	9	6.5	12.1	10.4	9	6.4	165	
170	11.9	10.2	8.8	6.3	11.8	10.1	8.7	6.2	11.8	10.1	8.7	6.2	170	
175	11.5	9.9	8.5	6.1	11.5	9.8	8.5	6.1	11.4	9.8	8.4	6	175	
180	11.1	9.6	8.3	5.9	11.1	9.5	8.2	5.9	11	9.5	8.2	5.8	180	
185	10.7	9.3	8	5.7	10.7	9.2	8	5.7	10.7	9.2	8	5.6	185	
190	10.3	9	7.8	5.5	10.3	9	7.8	5.5	10.3	8.9	7.7	5.5	190	
195	10	8.7	7.6	5.3	10	8.7	7.6	5.3	9.9	8.6	7.5	5.3	195	
200	9.6	8.4	7.4	5.2	9.6	8.4	7.3	5.2	9.6	8.4	7.3	5.1	200	
205	9.3	8.1	7.1	5	9.2	8.1	7.1	5	9.2	8.1	7.1	5	205	
210	9.1	7.9	6.9	4.9	8.8	7.8	6.9	4.9	8.8	7.8	6.9	4.9	210	
215	8.8	7.7	6.7	4.7	8.4	7.6	6.7	4.7	8.4	7.6	6.7	4.7	215	
220	8.5	7.5	6.5	4.6	8	7.3	6.5	4.6	8	7.3	6.5	4.5	220	
225	8.2	7.2	6.3	4.5	7.6	7.1	6.3	4.5	7.6	7.1	6.3	4.4	225	
230	8	7	6.2	4.3	7.2	6.8	6.2	4.3	7.2	6.8	6.2	4.3	230	
235	7.7	6.8	6	4.2	6.8	6.6	6	4.2	6.8	6.6	6	4.2	235	
240	7.4	6.6	5.8	4.1	6.4	6.4	5.8	4.1	6.4	6.3	5.8	4.1	240	
245	7.2	6.4	5.7	4	6	6.1	5.7	4	6	6.1	5.7	4	245	
250	6.8	6.2	5.5	3.9	5.6	5.9	5.5	3.9	5.6	5.9	5.5	3.9	250	
255	6.5	5.9	5.4	3.8	5.3	5.5	5.2	3.8	5.2	5.6	5.3	3.8	255	
260	6.1	5.7	5.2	3.8	4.9	5.2	4.9		4.7	5.2	5		260	
265	5.8	5.5	5.1		4.4	4.8	4.6		4.2	4.8	4.7		265	
270	5.4	5.3	5		4	4.3	4.3			4.4	4.3		270	
275	5.1	5	4.9			3.8	4			3.9	4		275	
280	4.8	4.8	4.7										280	
285	4.4	4.6	4.5										285	
290	4	4.3	4.2										290	
295		3.9	3.9										295	

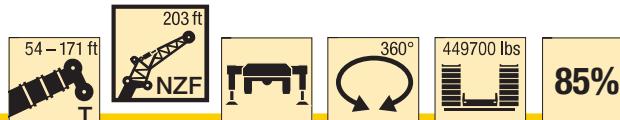
*adapter · pièce d'adaptateur

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Lifting capacities
Forces de levage
TNZF 192 ft


D	ft	54 ft + 9 ft*			107 ft + 9 ft*			125 ft + 9 ft*			143 ft + 9 ft*			161 ft + 9 ft*			164 ft + 9 ft*			167 ft + 9 ft*			171 ft + 9 ft*						
		192 ft			192 ft			192 ft			192 ft			192 ft			192 ft			192 ft			192 ft						
		0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°				
	32	42.3																									32		
	34	41.3																									34		
	36	40.2																									36		
	38	39.1	34.3																								38		
	40	38		33.8			31.3																				40		
	45	35.3		32.1			30.3				28.6																45		
	50	32.9		30.4			29.1				27.5			24.6			24.1			23.5							50		
	55	31		28.8			28				26.4			23.8			23.3			22.8			22.4				55		
	60	29.2		27.4			26.9				25.2			22.9			22.4			22			21.7				60		
	65	27.3		26.1			25.8				24.1			22			21.6			21.2			20.9				65		
	70	25.4	23.2		24.9			24.7				23.2			21.2			20.8			20.4			20.2				70	
	75	23.9	21.9		23.6	20.4		23.7				22.3			20.4			20.1			19.7			19.5				75	
	80	22.6	20.6		22.3	19.5		22.6	18.8			21.5			19.7			19.4			19			18.8				80	
	85	21.4	19.5		21.3	18.7		21.5	18			20.6	17.1		19			18.7			18.4			18.2				85	
	90	20.2	18.5		20.3	17.8		20.5	17.3			19.7	16.5		18.4	15.3		18.1			17.8			17.6				90	
	95	19	17.5		19.5	17.1		19.7	16.5			18.8	15.8		17.7	14.8		17.4	14.6		17.2	14.4		17	14.2			95	
	100	17.8	16.5	14.7	18.6	16.3		19	15.9			18.1	15.2		17	14.3		16.7	14.1		16.5	13.9		16.4	13.8			100	
	105	16.7	15.6	13.9	17.7	15.6		18.2	15.3			17.5	14.6		16.3	13.8		16.1	13.6		15.9	13.4		15.8	13.3			105	
	110	15.9	14.7	13.1	16.8	14.9	12.7	17.4	14.6			16.8	14.1		15.8	13.3		15.5	13.1		15.3	12.9		15.2	12.8			110	
	115	15.1	14	12.4	16	14.3	12.2	16.6	14	11.9	16.2	13.6			15.2	12.8		15	12.7		14.8	12.5		14.7	12.4			115	
	120	14.3	13.2	11.7	15.3	13.7	11.7	15.9	13.5	11.4	15.6	13	11		14.7	12.4		14.5	12.2		14.4	12.1		14.2	12			120	
	125	13.5	12.5	11.1	14.7	13.1	11.2	15.2	13	11	14.9	12.5	10.6	14.2	12	10.1	14	11.8	9.9	13.9	11.7	9.8	13.8	11.6			125		
	130	12.7	11.7	10.4	14.1	12.5	10.8	14.6	12.4	10.6	14.3	12.1	10.2	13.7	11.5	9.7	13.5	11.4	9.6	13.4	11.3	9.5	13.3	11.2	9.4		130		
	135	11.9	11	9.8	13.5	12	10.3	14.1	11.9	10.1	13.7	11.6	9.8	13.2	11.1	9.4	13	11	9.3	12.9	10.8	9.2	12.8	10.8	9.1		135		
	140	11.1	10.5	9.3	12.9	11.5	9.9	13.6	11.4	9.7	13.2	11.2	9.5	12.7	10.7	9	12.5	10.6	8.9	12.4	10.5	8.8	12.4	10.4	8.8		140		
	145	10.4	10	8.8	12.2	11	9.4	13	11	9.4	12.8	10.8	9.1	12.2	10.4	8.7	12.1	10.2	8.6	12	10.1	8.6	11.9	10.1	8.5		145		
	150	9.8	9.5	8.4	11.6	10.6	9	12.5	10.6	9	12.3	10.4	8.8	11.7	10	8.4	11.6	9.9	8.3	11.5	9.8	8.3	11.5	9.7	8.2		150		
	155	9.3	9	7.9	11	10.2	8.6	12	10.2	8.7	11.9	10	8.4	11.4	9.6	8.1	11.2	9.5	8.1	11.1	9.5	8	11.1	9.4	7.9		155		
	160	8.9	8.5	7.4	10.5	9.7	8.3	11.5	9.8	8.3	11.4	9.6	8.1	11	9.3	7.9	10.9	9.2	7.8	10.8	9.1	7.7	10.7	9.1	7.6		160		
	165	8.4	7.9	7.1	10	9.3	8	10.9	9.4	8	11	9.3	7.8	10.6	8.9	7.6	10.5	8.8	7.5	10.5	8.8	7.4	10.4	8.8	7.4		165		
	170	7.9	7.5	6.8	9.6	8.8	7.7	10.4	9	7.7	10.6	8.9	7.5	10.3	8.6	7.3	10.2	8.5	7.2	10.1	8.5	7.2	10.1	8.4	7.1		170		
	175	7.4	7	6.5	9.2	8.4	7.3	10	8.6	7.4	10.1	8.6	7.3	9.9	8.3	7	9.8	8.3	7	9.8	8.2	6.9	9.7	8.2	6.8		175		
	180	7	6.7	6.1	8.8	8.1	7	9.6	8.2	7.1	9.7	8.3	7	9.5	8.1	7.6	9.5	8	6.6	9.4	7.9	6.6	9.4	7.9	6.5		180		
	185	6.6	6.4		8.4	7.8	6.7	9.2	7.9	6.8	9.3	8	6.7	9.2	7.8	6.4	9.1	7.7	6.4	9.1	7.7	6.3	9.1	7.6	6.2		185		
	190	6.3	6.1		8	7.5	6.4	8.9	7.6	6.5	8.9	7.6	6.4	8.8	7.5	6.2	8.8	7.5	6.1	8.8	7.4	6.1	8.7	7.4	6		190		
	195	6.1	5.8		7.6	7.1	6	8.5	7.3	6.1	8.6	7.3	6.1	8.5	7.2	6	8.4	7.2	5.9	8.4	7.2	5.8	8.4	7.1	5.8		195		
	200	5.9			7.2	6.8	5.7	8.2	7	5.8	8.3	7	5.8	8.1	7	5.7	8.1		8.1	6.9	5.6	8.1	6.9	5.6	8.1	6.9	5.6		200
	205	5.7			6.9	6.5	5.4	7.8	6.8	5.6	8	6.8	5.5	7.5	7.8	6.7	5.5	7.7		6.7	5.4	7.8	6.6	5.4	7.8	6.6	5.3		205
	210	5.5			6.6	6.2	5.1	7.5	6.5	5.3	7.7	6.6	5.3	7.6	6.4	5.2	7.5		6.4	5.2	7.4	6.4	5.1	7.4	6.4	5.1		210	
	215				6.3	5.9	4.8	7.1	6.2	5	7.4	6.3	5.1	7.3	6.2	5	7.3		6.2	4.9	7.1	6.2	4.9	7.1	6.1	4.9		215	
	220				6	5.6	4.6	6.8	5.9	4.8	7.1	6.1	4.8	7.1	6	4.8	7		6	4.7	6.7	5.9	4.7	6.7	5.9	4.7		220	
	225				5.8	5.3	4.4	6.5	5.6	4.5	6.7	5.8	4.6	6.8	5.8	4.5	6.8		5.7	4.5	6.4	5.7	4.5	6.4	5.6	4.4		225	
	230				5.5	5	4.1	6.3	5.3	4.3	6.4	5.5	4.4	6.5	5.5	4.4	6.5		5.5	4.3	6.1	5.5	4.3	6.1	5.4	4.2		230	
	235				5.1	4.7	3.9	6	5.1	4.1	6.2	5.2	4.1	6.3	5.3	4.2	6.3		5.3	4.1	5.7	5.2	4.1	5.8	5.2	4.1		235	
	240				4.8	4.4		5.8	4.8	3.9	5.9	5	3.9	6	5	4	6		5	3.9	5.3	5	3.9	5.4	4.9	3.9		240	
	245				4.5	4.2		5.5	4.6		5.7	4.7		5.8	4.8	3.8	5.8	4.8		4.9	4.8	3.8	5	4					

Lifting capacities Forces de levage

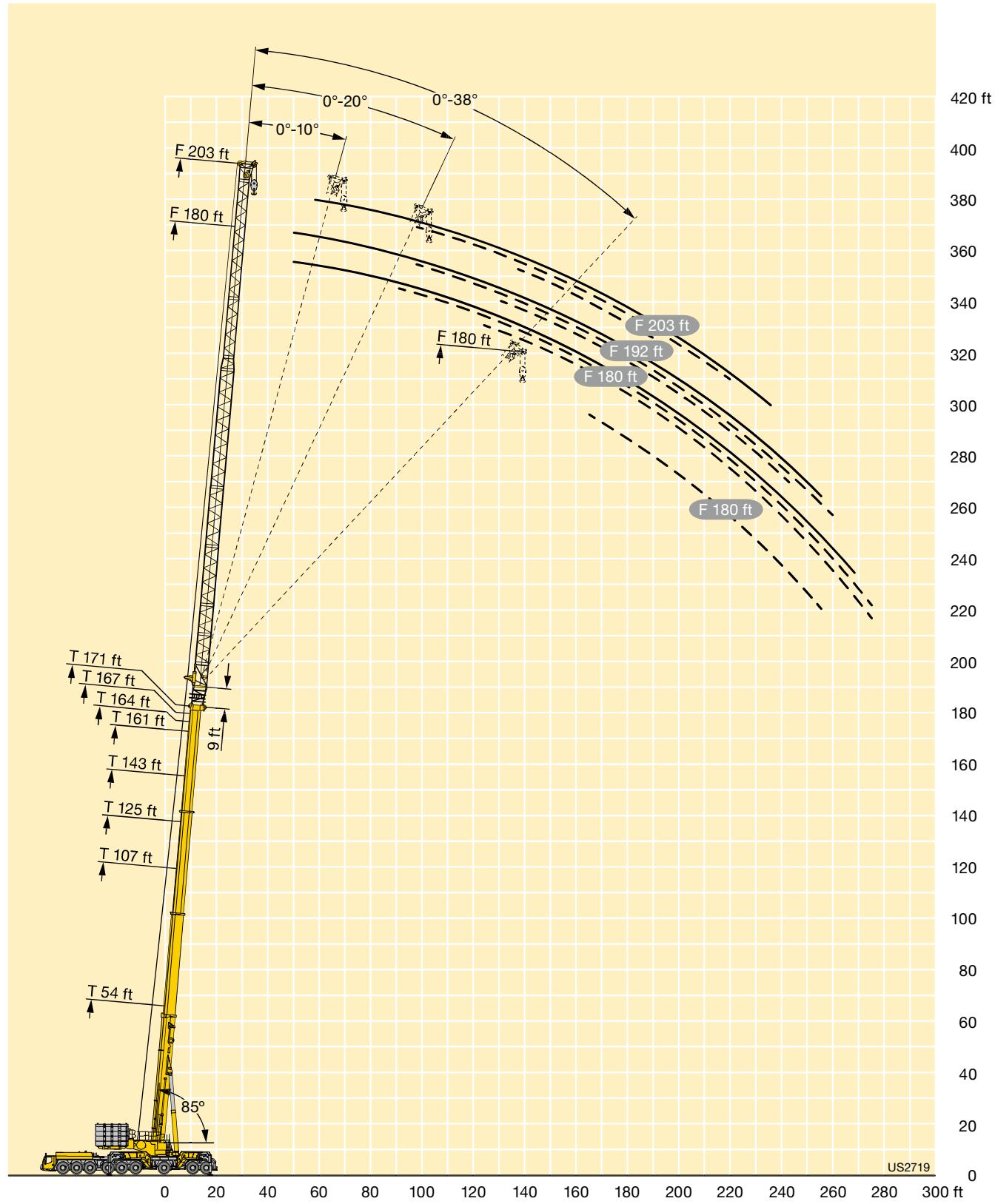
TNZF 203 ft


ft	54 ft + 9 ft*			107 ft + 9 ft*			125 ft + 9 ft*			143 ft + 9 ft*			161 ft + 9 ft*			164 ft + 9 ft*			167 ft + 9 ft*			171 ft + 9 ft*						
	203 ft			203 ft			203 ft			203 ft			203 ft			203 ft			203 ft			203 ft						
0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°		
34	31.5																										34	
36	31.5																										36	
38	31.5																										38	
40	31.5	31																									40	
45	31.5	29.6					28																				45	
50	30.1	28.2					26.7				24.5															50		
55	28.3			26.8			25.5				23.6				20.9				20.2				19.6				55	
60	26.6			25.5			24.3				22.6				20.3				19.8				19.4				60	
65	25			24.3			23.2				21.6				19.6				19.1				18.8				65	
70	23.3			23.2			22.2				20.7				18.8				18.4				18.1				70	
75	21.7	19.9		22			21.2				19.9				18.1				17.7				17.4				75	
80	20.5	18.8		20.9	17.4		20.3				19.1				17.4				17				16.7				80	
85	19.4	17.7		19.8	16.7		19.3	16			18.3				16.8				16.5				16.2				85	
90	18.3	16.7		18.9	15.9		18.4	15.3			17.5	14.5			16.2				15.9				15.6				90	
95	17.3	15.8		18.1	15.1		17.5	14.7			16.7	13.9			15.6	12.9			15.3	12.7			15.1				95	
100	16.2	14.9		17.3	14.5		16.8	14			16	13.3			15	12.4			14.7	12.2			14.5	12			100	
105	15.1	14.1	12.4	16.5	13.8		16.2	13.4			15.4	12.8			14.3	11.9			14.1	11.7			13.9	11.6			105	
110	14.1	13.2	11.8	15.7	13.2		15.5	12.9			14.8	12.3			13.8	11.5			13.5	11.3			13.4	11.2			110	
115	13.5	12.5	11.2	14.9	12.5	10.6	14.8	12.3			14.2	11.8			13.3	11			13	10.8			12.9	10.7			115	
120	12.8	11.9	10.5	14.1	12	10.1	14.1	11.7	9.8	13.6	11.3			12.8	10.6			12.6	10.4			12.4	10.3			120		
125	12.1	11.2	9.9	13.5	11.5	9.7	13.4	11.2	9.4	13.1	10.8	8.8	8.4	11.9	9.8	7.6	11.7	9.7	12.2	10.1	12	10	11.8	9.9		125		
130	11.5	10.6	9.4	13	10.9	9.2	12.8	10.8	8.9	12.5	10.4	8.4	8.4	11.9	9.8	7.6	11.7	9.7	11.6	9.6	11.4	9.5		130				
135	10.8	9.9	8.8	12.4	10.4	8.7	12.3	10.3	8.5	11.9	10	8	11.4	9.4	7.3	11.3	9.3	7.1	11.1	9.2	7	11	9.1	6.9		135		
140	10.1	9.2	8.3	11.9	9.9	8.3	11.8	9.9	8.1	11.5	9.6	7.6	11	9	7	10.8	8.9	6.8	10.7	8.8	6.7	10.6	8.7	6.6		140		
145	9.4	8.7	7.6	11.3	9.4	7.8	11.4	9.4	7.6	11	9.2	7.2	10.5	8.7	6.7	10.4	8.6	6.5	10.3	8.5	6.4	10.2	8.4	6.3		145		
150	8.8	8.1	7	10.8	9	7.4	10.9	9	7.2	10.6	8.8	6.9	10	8.4	6.4	9.9	8.3	6.2	9.8	8.1	6.1	9.8	8	6		150		
155	8.2	7.5	6.3	10.2	8.6	6.9	10.4	8.6	6.8	10.2	8.4	6.5	9.6	8.1	6	9.5	7.9	5.9	9.4	7.8	5.8	9.4	7.7	5.7		155		
160	7.7	6.9	5.7	9.7	8.3	6.5	9.9	8.3	6.5	9.8	8.1	6.2	9.3	7.7	5.7	9.2	7.5	5.6	9.1	7.4	5.5	9	7.4	5.4		160		
165	7.3	6.3		9.2	7.8	6.1	9.5	7.9	6.1	9.4	7.7	5.9	9	7.3	5.4	8.9	7.2	5.3	8.8	7.1	5.2	8.7	7	5.2		165		
170	6.8			8.7	7.4	5.7	9	7.6	5.7	9	7.4	5.5	8.7	6.9	5.1	8.6	6.8	5	8.5	6.7	5	8.4	6.7	4.9		170		
175	6.3				8.3	6.9	5.4	8.5	7.1	5.4	8.6	7	5.2	8.3	6.6	4.9	8.2	6.4	4.8	8.2	6.3	4.7	8.1	6.3	4.6		175	
180	5.9					7.9	6.5	5	8.1	6.7	5.1	8.2	6.7	4.9	8	6.3	4.6	7.9	6.1	4.5	7.8	6.1	4.4	7.8	6	4.4		180
185						7.6	6.1	4.7	7.7	6.3	4.8	7.8	6.3	4.6	7.7	6	4.3	7.6	5.9	4.2	7.5	5.8	4.2	7.5	5.8	4.1		185
190						7.2	5.7	4.3	7.4	5.9	4.5	7.4	6	4.4	7.3	5.7	4	7.3	5.6	4	7.2	5.5	3.9	7.2	5.5	3.9		190
195						6.8	5.4	4	7.1	5.5	4.1	7.1	5.6	4.1	7	5.4	3.8	7	5.3				6.9	5.2			195	
200						6.4	5		6.8	5.2	3.8	6.8	5.2	3.8	6.7	5.1		6.7	5			6.6	4.9			200		
205						6	4.7		6.4	4.9		6.5	4.9		6.3	4.8		6.3	4.7			6.2	4.7			205		
210						5.5	4.3		6.1	4.6		6.2	4.6		6	4.5		5.9	4.4			5.9	4.4			210		
215						5.2	3.9		5.7	4.3		5.9	4.3		5.7	4.2		5.6	4.1			5.5	4.1			215		
220						4.8			5.2	4		5.5	4.1		5.4	3.9		5.3	3.9			5.1	3.8			220		
225						4.5			4.8			5.2	3.8		5.1			5.1				4.7				225		
230						4.2			4.5			4.8			4.6			4.8				4.3				230		
235						3.9			4.2			4.5			4.6			4.5				4				235		
240									4			4.2			4.3			4.3									240	
245												3.9			4			4									245	

*adapter · pièce d'adaptateur

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Lifting heights
Hauteurs de levage
TNZF


**Lifting capacities
Forces de levage**
TYVENZF 20 ft


 ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				 ft	
	20 ft				20 ft				20 ft				20 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
18	240.2																18	
19	239.1																19	
20	237.8																20	
22	235.1	206.5			236.9												22	
24	232.5	202.8			234.6	205.7			235.5								24	
26	229.9	199	158.9		232.4	203.1			233.5	204.3			231.7				26	
28	227.4	195.1	156.6		230.2	199.8	159		231.5	202.7			230.9				28	
30	224.9	191.2	154.3	120.3	227.9	196.3	157		229.5	200.3	159.1		229.1	201.3			30	
32	222.5	187.4	151.9	119.2	225.8	192.9	154.9	120.3	227.5	197.4	157.3		227.3	199.3	159.2		32	
34	220	183.5	149.6	117.7	223.6	189.5	152.8	119.1	225.6	194.3	155.4	120.3	225.6	197.3	157.5		34	
36	217.5	179.7	147.3	116.1	221.4	186	150.7	117.7	223.7	191.2	153.5	119.1	223.8	195.1	155.8		36	
38	214.9	175.9	144.9	114.6	219.2	182.6	148.7	116.3	221.8	188	151.6	117.8	222.1	192.5	154.1	118.4	38	
40	211.9	172	142.8	113.1	217.1	179.2	146.6	115	219.8	184.9	149.8	116.5	220.3	189.7	152.4	117.2	40	
45	203.9	163.1	138.3	109.7	211	170.6	141.8	111.8	215	177.2	145.1	113.4	216	182.6	148.1	114.4	45	
50	195.4	157	133.8	106.7	204.2	162.8	137.8	108.8	209.6	169.4	141.1	110.7	211.7	175.5	143.8	111.8	50	
55	185.3	150.9	129.4	103.7	196.7	157.4	133.9	106.2	203.4	162.6	137.5	108.1	206.1	168.5	140.4	109.4	55	
60	175.2	144.8	125.2	101.2	187.7	151.9	129.9	103.6	197.2	157.7	133.9	105.8	197.5	162.4	137.1	107.1	60	
65	165.8	139.7	122.6	98.8	178.7	146.5	125.9	101.3	189.6	152.8	130.3	103.5	188.9	158	133.9	105	65	
70	158.2	134.9	119.7	96.6	169.7	141.6	123.4	99.2	181.5	147.9	126.7	101.4	180.3	153.5	130.6	103	70	
75	151.7	130.1	115.9	94.6	162.1	137.3	121.1	97.1	173.4	143.1	124.1	99.5	171.5	149	127.3	101	75	
80	145.1	125.5	111.6	92.7	156.1	133	117.9	95.4	165.9	139.2	122	97.6	162.5	144.6	124.7	99.4	80	
85	139.5	122.5	107.9	91.2	150.2	128.8	114.2	93.7	159.6	135.4	119.4	96	153.4	140.8	122.7	97.8	85	
90	134.2	119.1	104.7	89.7	144.4	125	110.4	92.1	154.3	131.5	116.1	94.5	144.2	137.3	120	96.2	90	
95	128.9	114.8	101.5	88.4	139.4	122.3	107.3	90.8	148.5	127.7	112.8	93.1	135.1	133.5	117.1	94.8	95	
100	124.3	110.5	98.5	87.3	134.7	119.1	104.5	89.5	139.3	124.5	109.5	91.8	126.1	128.3	114.2	93.5	100	
105	120.9	106.2	96.1		130	115	101.7	88.4	130.8	122	106.7	90.6	118	121.7	111.2	92.3	105	
110	115.7	102.3	93.8		124	111.2	99	87.4	123	118.7	104.2	89.5	112.1	114.9	108.1	91.2	110	
115	109.9	99.2	91.6		116.3	107.5	96.7	86.5	115.6	114.6	101.8	88.5	106.2	108.1	104.4	90.2	115	
120	105.3	96.1	89.8		109.2	103.8	94.7		108.5	109.5	99.3	87.7	100.4	101.6	100	89.2	120	
125	99.9	93.1	88.1		102.6	100.7	92.6		102	102.9	97	87	94.5	95.8	95.5	88.2	125	
130	93.8	90.7	86.8		96.6	97	90.7		95.9	96.8	95.2		88.9	91	91.1	87.2	130	
135	88.1	88.2			91	91.6	89.2		90.4	91.2	91.7		84	86.3	86.8	86.1	135	
140	79.4				85.7	86.3	86.7		85.2	85.9	86.4		80	81.6	82.5		140	
145	57.3				80.9	81.4	81.7		80.4	81	81.5		75.9	76.9	78.2		145	
150					76.3	76.7			75.9	76.4	76.9		71.9	72.7	74		150	
155					71.3	72.1			71.6	72.2	72.5		67.8	69	69.8		155	
160					57.5				67.7	68.1	68.4		64.1	65.4	66		160	
165									64	64.4			60.8	61.7	62.4		165	
170									60.4	60.8			57.6	58.2	58.8		170	
175									51.5				54.5	55.1	55.5		175	
180									36.6				51.4	52.1			180	
185													48.6	49.1			185	
190													44				190	
195													33.6				195	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYVENZF 31 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		31 ft				31 ft				31 ft				31 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	20	235.6																20	
	22	233.3																22	
	24	230.9				232												24	
	26	228.5	199.1			229.9												26	
	28	226.1	195.2			227.8	197.1				228.3							28	
	30	223.7	191.2	146.5		225.6	193.4				226.4	195						30	
	32	221.2	187.2	143.7		223.5	189.5				224.6	191.7						32	
	34	218.8	182.9	140.4		221.3	185.7	143			222.8	187.8						34	
	36	216.3	178.6	137.2		219.1	181.8	140.2			220.9	183.9	142.3					36	
	38	213.9	174.2	134.5	95.6	216.9	177.9	137.4			219	180	139.9					38	
	40	211.4	169.9	131.9	94.4	214.7	174	134.7	95.1	217	176.3	137.4						40	
	45	202.3	159.5	125.3	91.5	209.2	164.3	128.8	92.5	212.1	167.8	131.7	93.5	212	168			45	
	50	192.2	150.3	119.6	88.9	200.6	155.5	123.1	90	207.1	159.3	126.3	91.2	206.4	160.8	127.9	91.6	50	
	55	182	141.1	114.1	86.4	190.5	147.9	118.2	87.8	198.8	151.8	121.3	88.9	200.6	153.6	123.3	89.6	55	
	60	172	133.3	109.4	84.2	180.5	140.4	113.4	85.6	188.9	145.5	117	86.9	193.2	147.3	119	87.7	60	
	65	162.1	127	105.2	82	170.9	133.4	109.1	83.7	179.1	139.1	112.7	85	184.4	141.8	115.2	86	65	
	70	152.3	120.6	101	80.2	162.3	127.7	105.4	81.9	169.4	133	108.8	83.3	175.6	136.4	111.5	84.3	70	
	75	142.5	114.3	97.2	78.4	154.1	122.2	101.7	80.2	161.6	127.9	105.5	81.6	166.8	131	107.8	82.8	75	
	80	133.3	109	93.9	76.8	146	116.6	98.2	78.7	154.5	123	102.1	80	158.5	126.4	104.9	81.2	80	
	85	125.9	104.7	90.7	75.4	137.8	111	95	77.1	147.6	118.2	98.8	78.7	150.6	122.3	101.9	79.7	85	
	90	119.8	100.4	87.6	74	130.1	106.8	92.2	75.8	140.7	113.3	95.7	77.4	143	118.1	99	78.5	90	
	95	113.7	96.1	85.1	72.8	124	103	89.5	74.6	133.8	108.8	93.2	76.2	135.4	113.9	96.2	77.3	95	
	100	107.5	92.4	82.8	71.8	118.7	99.3	86.8	73.3	127.1	105.1	90.7	75	127.8	109.8	93.6	76.2	100	
	105	102.2	89.3	80.4	70.8	113.3	95.5	84.6	72.4	121.7	101.7	88.3	73.9	120.2	106.2	91.4	75.1	105	
	110	98	86.3	78.3	70	107.9	92.2	82.5	71.4	116.9	98.4	85.9	72.9	112.8	103	89.3	74.2	110	
	115	94	83.2	76.5	69.3	102.8	89.4	80.4	70.5	112.2	95	83.9	72	107.5	100	87.1	73.2	115	
	120	89.9	80.6	74.8		98.7	86.7	78.4	69.9	107.5	92	82.1	71.2	102.2	97	85.1	72.4	120	
	125	85.8	78.3	73.2		95.1	84	76.8	69.3	102.6	89.4	80.3	70.4	96.9	94	83.3	71.6	125	
	130	82.8	76.1	71.8		91.6	81.4	75.3		97.4	87	78.5	69.8	91.6	90.8	81.6	70.9	130	
	135	79.9	73.9	70.6		88.1	79.3	73.8		91.8	84.6	76.9	69.3	86.3	87.2	80	70.2	135	
	140	77	72.2	69.6		84.7	77.3	72.4		86.6	82.2	75.6		81.2	83.3	78.4	69.6	140	
	145	74.4	70.6			81.9	75.4	71.3		81.8	79.9	74.3		77.6	79.3	76.5	69.1	145	
	150	71.8	69.3			78.1	73.5	70.3		77.3	77.8	72.9		73.9	75.4	74	68.6	150	
	155	57				73.9	71.9	69.4		73.1	74	71.7		70.3	71.5	71.2		155	
	160					69.9	70.3			69.2	70	70.1		66.6	67.8	68.4		160	
	165					65.8	66.7			65.5	66.2	66.8		63	64.6	65.3		165	
	170					54.9				62	62.6	63.1		59.6	61.2	61.8		170	
	175									58.7	59.3			56.8	57.8	58.4		175	
	180									55.6	56.1			53.9	54.7	55.2		180	
	185									48.5				51	51.7	52.1		185	
	190									36.4				48.3	48.8			190	
	195													45.6	46.1			195	
	200													41	42.6			200	
	205													32.2				205	

*adapter · pièce d'adaptateur

t_198_004_00101_00_000



**Lifting capacities
Forces de levage**
TYVENZF 43 ft


ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
	43 ft				43 ft				43 ft				43 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
22	215.2																22	
24	209.4				209.1												24	
26	203.7				205.4												26	
28	198				200.6				201.4								28	
30	192.3	150.4			195.9				197.1				195.3				30	
32	187.7	147.3			191.1	150.1			192.9				191.7				32	
34	183.4	144.2			186.5	147.6			188.6	147.9			188.1				34	
36	179.2	141.1	117.1		182.6	144.9			184.4	145.9			184.5				36	
38	175	138.5	115.3		178.9	142.2	116.3		180.4	143.7			180.9	143.1			38	
40	170.8	136	113.4		175.3	139.6	114.9		177.2	141.5			177.3	141.2			40	
45	160.8	129.8	109.2		166.1	133.9	110.9		169.3	136.2	112.3		169.8	136.3	112.8		45	
50	152.6	124.1	105.2	74.8	157.5	128.4	107.2	75.5	161.3	131.3	108.7		162.9	131.9	109.4		50	
55	144.7	119.1	101.5	73.1	150.6	123.3	103.6	73.8	154	126.3	105.4	74.3	156.1	127.9	106.3	74.5	55	
60	136.7	114.2	98.1	71.4	144.1	118.8	100.4	72.2	148.1	121.9	102.1	72.9	149.6	123.8	103.4	73.1	60	
65	130.5	109.8	94.8	69.9	137.5	114.4	97.3	70.8	142.5	117.9	99.3	71.5	144.4	120.1	100.6	71.9	65	
70	125	106.2	92.1	68.6	131.6	110.2	94.3	69.5	136.8	113.9	96.5	70.2	139.5	116.5	98	70.7	70	
75	119.6	102.6	89.4	67.3	126.5	106.9	91.8	68.2	131.5	110.1	93.8	69.1	134.5	113	95.5	69.5	75	
80	114.3	99	86.8	66.1	121.8	103.7	89.4	67.1	126.8	106.9	91.6	67.9	129.6	109.5	93	68.5	80	
85	109.1	95.5	84.5	65	117	100.5	87	66	122.6	104.1	89.5	66.8	125.4	106.4	91	67.5	85	
90	104.8	92.8	82.4	64	112.3	97.3	84.8	65	118.3	101.2	87.4	65.8	121.6	103.8	89	66.5	90	
95	101.3	90.3	80.4	63.1	107.7	94.6	82.9	64.1	114.1	98.3	85.3	65	118	101.3	87.1	65.6	95	
100	97.8	87.7	78.4	62.3	104	92.2	81.1	63.3	109.9	95.5	83.4	64.1	114.5	98.7	85.2	64.8	100	
105	94.3	85.2	76.8	61.6	100.9	89.9	79.3	62.5	105.8	93.2	81.7	63.4	110.9	96.1	83.3	64.1	105	
110	91	83.2	75.3	61	97.8	87.6	77.7	61.8	102.7	91.1	80.1	62.7	107.3	93.7	81.8	63.4	110	
115	88.2	81.3	73.7	60.4	94.7	85.4	76.2	61.3	99.9	89	78.4	62	103.7	91.6	80.3	62.7	115	
120	85.8	79.4	72.4	60.2	91.6	83.4	74.8	60.8	97.1	87	76.9	61.4	99.7	89.7	78.9	62.1	120	
125	83.4	77.6	71.3	59.9	88.7	81.8	73.5	60.3	94.3	85	75.6	60.9	95.5	87.9	77.5	61.5	125	
130	81.1	76	70.3		86.6	80	72.2	60	91.5	83.1	74.5	60.5	91.4	86.1	76.2	61	130	
135	78.8	74.6	69.3		84.5	78.3	71.2	59.8	88.6	81.5	73.3	60	87.2	84.2	75	60.5	135	
140	77.1	73.3	68.5		82.4	76.6	70.3		86.6	80	72.1	59.7	83.1	82.1	74	60.2	140	
145	75.6	71.9	67.9		80.3	75.3	69.4		83.1	78.4	71.1	59.6	79	79.1	72.9	59.8	145	
150	74	70.6	67.4		78.2	74	68.5		78.7	76.8	70.3		75.2	76	71.9	59.5	150	
155	72.3	69.3			75.5	72.8	68		74.5	75.2	69.5		71.8	72.9	70.5	59.4	155	
160	68.9	68.1			71.6	71.6	67.5		70.6	71.8	68.7		68.2	69.6	68.5	59.2	160	
165	55.3				67.9	68.8	67.1		66.9	68	67.8		64.7	66.1	66.2		165	
170					64.4	65.2			63.4	64.5	65.3		61.5	62.7	63.6		170	
175					60.9	61.7			60.1	61.1	61.8		58.3	59.5	60.4		175	
180					52.2				57	57.9	58.5		55.2	56.3	57.2		180	
185					37.8				54.1	54.8			52.3	53.3	54.1		185	
190									51.3	51.9			49.6	50.5	51.1		190	
195									45.6	48.2			46.9	47.7	48.3		195	
200									35.5				44.4	45.1			200	
205													42	42.7			205	
210													38.2	40.1			210	
215													30.6				215	
220													20.2				220	

* adapter · pièce d'adaptateur

t_198_004_00201_00_000



**Lifting capacities
Forces de levage**
TYVENZF 54 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		54 ft				54 ft				54 ft				54 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	24	175.2																24	
	26	170.4				170.2												26	
	28	165.6				166.5				165.8								28	
	30	160.9				162.4				162.9								30	
	32	156.1	113.6			158.3				159.3				157.4				32	
	34	151.6	110.8			154.2				155.7				154.1				34	
	36	147.3	108			150.1	108.6			152.1				150.8				36	
	38	143	105.2			146.2	106.2			148.4	106.6			147.5				38	
	40	138.7	102.5			142.4	103.8			144.9	104.4			144.2	103.6			40	
	45	128	96.8	76.4		132.8	98	77.6		136.3	99			136.2	99			45	
	50	119.1	91.2	72.6		123.3	93.1	74.1		127.7	94.3	75		128.9	94.4	74.7		50	
	55	111.6	86.2	69.2	50.9	115.4	88.3	70.9		119.1	90	72.2		121.6	90.5	72.2		55	
	60	104.2	81.8	66.1	49.4	109	84.1	67.9	49.9	112.2	85.8	69.5	50.4	114.3	86.8	69.9		60	
	65	96.8	77.5	63.4	48	102.6	80.5	65.2	48.6	106.6	82.2	66.8	49.1	108.2	83.1	67.7	49.4	65	
	70	91.7	73.5	60.7	46.7	96.2	76.9	62.8	47.4	100.9	79.1	64.5	47.9	103.4	79.9	65.6	48.3	70	
	75	87	70.3	58.5	45.5	91.2	73.5	60.4	46.3	95.3	75.9	62.3	46.9	98.5	77.1	63.5	47.3	75	
	80	82.3	67.1	56.3	44.4	86.9	70.5	58.3	45.2	90.5	72.8	60.1	45.8	93.7	74.3	61.5	46.3	80	
	85	77.6	63.9	54.2	43.3	83	67.6	56.4	44.2	86.5	70.1	58.2	44.9	89.2	71.6	59.5	45.4	85	
	90	73.1	60.7	52.2	42.3	79	64.8	54.5	43.3	83	67.7	56.5	44	85.5	69.1	57.7	44.5	90	
	95	69.1	58.3	50.5	41.5	75.1	62	52.7	42.4	79.6	65.2	54.8	43.1	82.3	67	56.2	43.7	95	
	100	66.1	56.1	48.9	40.6	71.3	59.3	51	41.6	76.2	62.8	53.1	42.4	79.2	65	54.7	42.9	100	
	105	63	53.9	47.3	39.9	68	57.2	49.6	40.8	72.7	60.3	51.5	41.6	76.2	62.9	53.1	42.2	105	
	110	60	51.8	45.9	39.1	65.3	55.3	48.2	40.1	69.4	58.2	50.1	40.9	73.2	60.8	51.6	41.6	110	
	115	56.9	49.9	44.7	38.5	62.6	53.3	46.7	39.4	66.7	56.4	48.8	40.3	70.1	58.8	50.2	40.9	115	
	120	54.3	48.2	43.5	37.9	59.9	51.4	45.5	38.8	64.3	54.6	47.6	39.7	67.2	57	49.1	40.3	120	
	125	52.3	46.7	42.3	37.4	57.2	49.7	44.4	38.3	61.9	52.9	46.3	39.1	64.9	55.4	48	39.8	125	
	130	50.3	45.2	41.3	37	54.7	48.2	43.3	37.8	59.6	51.2	45.2	38.5	62.9	53.8	46.8	39.2	130	
	135	48.4	43.6	40.3	36.6	52.7	46.8	42.3	37.3	57.2	49.6	44.2	38.1	60.8	52.2	45.7	38.7	135	
	140	46.4	42.4	39.5		50.9	45.5	41.3	36.9	54.9	48.2	43.3	37.6	58.8	50.7	44.7	38.2	140	
	145	44.6	41.3	38.6		49.1	44.1	40.4	36.6	52.9	46.9	42.3	37.2	56.8	49.2	43.8	37.8	145	
	150	43.2	40.1	37.8		47.3	42.8	39.7		51.3	45.7	41.4	36.8	54.8	47.8	43	37.4	150	
	155	41.7	39	37.2		45.6	41.8	38.9		49.7	44.4	40.6	36.5	52.8	46.7	42.2	37	155	
	160	40.3	38.1	36.7		44	40.8	38.2		48.1	43.2	39.8	36.3	51.3	45.6	41.3	36.7	160	
	165	39	37.3			42.8	39.8	37.6		46.5	42.1	39.1		49.9	44.5	40.5	36.5	165	
	170	37.9	36.5			41.5	38.8	37		44.9	41.2	38.5		48.4	43.4	39.9	36.2	170	
	175	36.8				40.2	38	36.5		43.5	40.3	37.8		47	42.4	39.3		175	
	180					39	37.3			42.4	39.5	37.3		45.5	41.5	38.6		180	
	185					38	36.6			41.3	38.6	36.8		44.1	40.7	38		185	
	190					37	36.1			40.1	37.9	36.4		42.9	39.9	37.5		190	
	195									39	37.2			41.9	39.1	37		195	
	200									38	36.6			40.9	38.3	36.6		200	
	205									37.2	36.1			39.9	37.7	36.2		205	
	210									34.7				38.9	37.1			210	
	215													37.9	36.5			215	
	220													35.8	36			220	
	225													29.4				225	
	230													20.7				230	

* adapter · pièce d'adaptateur

t_198_004_00301_00_000

**Lifting capacities
Forces de levage**
TYVENZF 66 ft


 ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				 ft	
	66 ft				66 ft				66 ft				66 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
26	145.2																26	
28	141.3				141.5												28	
30	137.4					138.1				138							30	
32	133.4					134.7				135.1							32	
34	129.5					131.3				132.1				130.6			34	
36	126.2	98.3				127.9				129.1				128			36	
38	123.3	96.7				124.6				126.1				125.4			38	
40	120.4	94.8				121.7	95.1			123.1				122.8			40	
45	113.2	90.2				115.5	91			116.8	91.3			116.3	91.8		45	
50	106.2	86.2	71.4			109.3	87.2	72.2		111.3	87.6			111.3	88.6		50	
55	100.9	82.2	68.6			103.2	83.8	69.6		105.9	84.5	70.5		106.6	85.3	70.7	55	
60	96	78.6	66.1			98.5	80.5	67.2		100.6	81.5	68.2		101.8	82.6	68.6	60	
65	91.1	75.3	63.7	47.3		94.2	77.3	65		96.4	78.5	66.1		97.3	80	66.5	65	
70	86.4	72.1	61.6	46.1		89.9	74.5	62.9	46.5	92.6	75.9	64.1	46.8	93.6	77.4	64.7	46.9	
75	82.6	69	59.6	45		85.6	71.6	61	45.5	88.8	73.4	62.2	45.8	90.3	75	62.9	46	
80	79.1	66.5	57.6	44		82.2	68.8	59.2	44.5	84.9	71	60.5	44.9	86.9	72.9	61.3	45.1	
85	75.7	64.2	55.8	43		79.1	66.4	57.4	43.5	81.7	68.6	58.8	44.1	83.6	70.8	59.7	44.3	
90	72.2	61.8	53.9	42.1		76.1	64.4	55.7	42.7	78.8	66.4	57.2	43.2	80.6	68.7	58.2	43.5	
95	68.8	59.5	52.1	41.2		73.2	62.3	54.1	41.9	76.3	64.5	55.7	42.4	77.8	66.7	56.7	42.8	
100	65.7	57.3	50.4	40.5		70.2	60.2	52.5	41.1	73.7	62.6	54.2	41.7	75.6	65	55.3	42.1	
105	63.4	55.4	49	39.7		67.3	58.2	50.9	40.4	71.1	60.8	52.7	41	73.3	63.3	54	41.5	
110	61.2	53.6	47.6	39.1		64.7	56.4	49.5	39.8	68.6	58.9	51.2	40.4	71.1	61.5	52.6	40.8	
115	59	51.8	46.2	38.5		62.7	54.7	48.2	39.1	66.1	57.1	49.8	39.8	68.9	59.8	51.3	40.2	
120	56.7	50	44.9	37.9		60.7	53	46.9	38.6	63.8	55.4	48.6	39.2	66.7	58.1	50	39.7	
125	54.6	48.4	43.8	37.4		58.7	51.4	45.6	38.1	62	53.9	47.5	38.7	64.5	56.5	48.8	39.1	
130	52.6	47	42.7	36.9		56.7	49.7	44.5	37.6	60.2	52.4	46.3	38.2	62.6	55	47.8	38.6	
135	50.8	45.6	41.6	36.5		54.7	48.2	43.5	37.1	58.4	50.9	45.2	37.7	61	53.6	46.7	38.2	
140	49	44.2	40.7	36.2		52.8	47	42.6	36.8	56.6	49.4	44.2	37.2	59.3	52.3	45.7	37.7	
145	47.2	42.8	39.8	35.9		51.2	45.7	41.6	36.4	54.7	48	43.3	36.9	57.7	50.9	44.6	37.3	
150	45.4	41.7	39			49.6	44.5	40.7	36.1	53	46.8	42.4	36.6	56.1	49.5	43.7	37	
155	43.9	40.7	38.2			47.9	43.3	39.9	35.9	51.5	45.7	41.6	36.3	54.4	48.2	42.9	36.6	
160	42.6	39.7	37.5			46.3	42.1	39.2	35.7	50	44.6	40.7	36	52.8	47.1	42.2	36.4	
165	41.3	38.7	37			44.7	41.2	38.5		48.5	43.5	40	35.8	51.3	46.1	41.4	36.1	
170	40.1	37.9	36.4			43.4	40.2	37.8		47.1	42.4	39.3	35.6	50	45	40.6	35.8	
175	38.8	37.1	36			42.2	39.3	37.3		45.6	41.4	38.7		48.7	44	39.9	35.6	
180	37.8	36.4				41.1	38.5	36.8		44.1	40.6	38		47.4	42.9	39.3	35.5	
185	36.8					39.9	37.7	36.3		42.9	39.8	37.4		46.1	42	38.8		
190	35.9					38.8	37.1	35.9		41.9	39	37		44.8	41.1	38.2		
195						37.9	36.4			40.9	38.2	36.6		43.5	40.4	37.7		
200						37	35.9			39.9	37.5	36.2		42.5	39.6	37.2		
205						36.1				38.8	36.9	35.8		41.5	38.8	36.8		
210										38	36.4			40.6	38.1	36.4		
215										37.1	35.9			39.7	37.5	36		
220										33.1				38.1	37	35.7		
225										22.9				36.1	36.5			
230														33.4	35			
235														27.7				
240														20.2				

* adapter · pièce d'adaptateur

t_198_004_00401_00_000



**Lifting capacities
Forces de levage**
TYVENZF 77 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		77 ft				77 ft				77 ft				77 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	26	124.4																26	
	28	121.5																28	
	30	118.3				119.6												30	
	32	115.1				116.7				116.6								32	
	34	112				113.9				114.1				112.4				34	
	36	108.8				111.1				111.6				110.3				36	
	38	105.9				108.3				109.1				108.2				38	
	40	103.6	82			105.5				106.6				106				40	
	45	97.7	78.4			99.9	78.8			100.7	78.8			100.6				45	
	50	91.9	74.7			94.7	75.4			96.1	75.7			95.8	75.3			50	
	55	86.7	71.6	60.1		89.6	72.3	60.7		91.5	72.7			91.7	72.6			55	
	60	82.5	68.6	57.7		84.9	69.6	58.5		86.9	70.1	59.2		87.8	70	59		60	
	65	78.6	65.6	55.6		81.3	66.8	56.5		82.8	67.7	57.2		83.8	67.8	57.5		65	
	70	74.6	63	53.5		77.8	64.3	54.6		79.6	65.3	55.4		80.1	65.6	55.9		70	
	75	70.9	60.3	51.6	38.5	74.3	62	52.7	38.8	76.5	63.1	53.7		77.4	63.5	54.3		75	
	80	67.9	57.7	49.9	37.5	70.9	59.7	51.1	37.9	73.3	61.2	52.1	38.2	74.7	61.6	52.8	38.3	80	
	85	65.2	55.6	48.3	36.6	68.1	57.5	49.6	37.1	70.2	59.2	50.7	37.4	71.9	59.9	51.3	37.5	85	
	90	62.4	53.6	46.9	35.8	65.6	55.5	48.1	36.3	67.6	57.3	49.3	36.6	69.2	58.2	50	36.8	90	
	95	59.7	51.7	45.5	35	63.3	53.8	46.7	35.5	65.3	55.5	47.9	35.9	66.8	56.5	48.8	36.1	95	
	100	57	49.8	44.1	34.3	60.9	52.1	45.5	34.8	63.2	53.9	46.7	35.2	64.5	54.8	47.5	35.5	100	
	105	54.4	47.9	42.9	33.6	58.5	50.3	44.3	34.1	61.2	52.3	45.5	34.6	62.7	53.4	46.4	34.8	105	
	110	52.5	46.4	41.7	32.9	56.2	48.6	43.1	33.5	59.1	50.8	44.4	34	60.8	52.1	45.3	34.3	110	
	115	50.7	45	40.6	32.3	53.9	47.1	42	32.9	57.1	49.2	43.3	33.4	59	50.7	44.3	33.7	115	
	120	48.8	43.7	39.5	31.8	52.3	45.7	41.1	32.3	55	47.6	42.2	32.9	57.2	49.3	43.3	33.2	120	
	125	47	42.4	38.5	31.3	50.6	44.5	40.1	31.8	53.1	46.3	41.3	32.3	55.4	47.9	42.3	32.7	125	
	130	45.2	41.1	37.7	30.8	48.9	43.2	39.2	31.3	51.6	45.1	40.5	31.8	53.6	46.6	41.4	32.2	130	
	135	43.5	40	36.9	30.4	47.3	42	38.3	30.9	50.1	44	39.6	31.4	52	45.4	40.6	31.8	135	
	140	42.3	39	36.1	30	45.6	40.8	37.5	30.5	48.6	42.9	38.8	31	50.6	44.3	39.8	31.4	140	
	145	41	38	35.3	29.7	44	39.8	36.8	30.2	47.1	41.8	38	30.6	49.3	43.3	39.1	31	145	
	150	39.8	37.1	34.7	29.4	42.8	38.9	36.1	29.8	45.5	40.7	37.3	30.3	47.9	42.3	38.3	30.7	150	
	155	38.5	36.1	34.1	29.1	41.6	38	35.4	29.6	44	39.7	36.7	29.9	46.6	41.3	37.6	30.3	155	
	160	37.3	35.3	33.5	29	40.5	37.2	34.8	29.3	42.8	38.9	36	29.7	45.3	40.3	37	30	160	
	165	36.3	34.6	33		39.4	36.3	34.2	29.1	41.8	38.1	35.4	29.4	44	39.4	36.4	29.7	165	
	170	35.4	33.9	32.5		38.2	35.5	33.7	28.9	40.7	37.3	34.8	29.1	42.7	38.7	35.9	29.5	170	
	175	34.6	33.2	32.2		37.1	34.9	33.2		39.7	36.5	34.3	29	41.7	38	35.3	29.3	175	
	180	33.7	32.7	31.8		36.2	34.3	32.7		38.6	35.7	33.8	28.8	40.8	37.3	34.8	29	180	
	185	32.9	32.2	31.6		35.4	33.6	32.3		37.6	35	33.4		39.9	36.5	34.2	28.9	185	
	190	32.3	31.8			34.6	33	32		36.6	34.4	33		39	35.8	33.8	28.7	190	
	195	31.8	31.5			33.8	32.5	31.7		35.8	33.9	32.6		38	35.2	33.4	28.6	195	
	200	31.3				33.1	32.1	31.5		35.1	33.3	32.3		37.1	34.6	33		200	
	205					32.5	31.8			34.4	32.8	32		36.2	34.1	32.7		205	
	210					31.9	31.5			33.6	32.3	31.8		35.5	33.6	32.3		210	
	215					31.4				32.9	32	31.6		34.9	33.1	32		215	
	220									32.4	31.7			34.2	32.6	31.8		220	
	225									31.9	31.4			33.6	32.1	31.6		225	
	230									30.9				32.9	31.8	31.5		230	
	235									23.5				32.3	31.6			235	
	240													31.2	31.3			240	
	245													26.6	29.8			245	
	250													20				250	

* adapter · pièce d'adaptateur

t_198_004_00501_00_000



**Lifting capacities
Forces de levage**
TYVENZF 89 ft

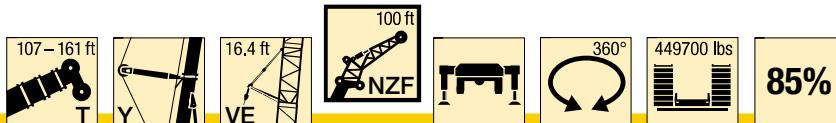

 ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				 ft	
	89 ft				89 ft				89 ft				89 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
28	106.6								75.7	60.6			76.1	60.5			28	
30	104.2								72	58.5	49.5		72.8	58.4			30	
32	101.5				101.7												32	
34	98.8				99.3				99.2								34	
36	96.2				97				97.1				95.5				36	
38	93.5				94.6				95				93.9				38	
40	91.1				92.2				92.9				92.1				40	
45	86.2	68.4			87				87.6				87.5				45	
50	81.3	65.3			82.7	65.5			83.4	65.6			83				50	
55	76.4	62.4			78.4	62.7			79.6	63.1			79.5	62.8			55	
60	72.5	59.8	50.4		74.2	60.3											60	
65	69.2	57.2	48.5		70.6	58	49.2		72	58.5	49.5						65	
70	65.8	54.8	46.7		67.7	55.8	47.4		68.9	56.5	48		69.6	56.6	48		70	
75	62.5	52.7	45		64.8	53.7	45.8		66.3	54.5	46.5		66.8	54.7	46.7		75	
80	59.7	50.6	43.4	32.4	61.9	51.9	44.3		63.7	52.7	45.1		64.5	52.9	45.4		80	
85	57.2	48.5	42	31.6	59.2	50.1	42.9	31.8	61.1	51.1	43.7	32	62.2	51.3	44.2		85	
90	55	46.7	40.5	30.8	56.8	48.2	41.6	31	58.5	49.4	42.4	31.3	59.9	49.9	42.9	31.4	90	
95	52.7	45.1	39.2	30.1	54.9	46.6	40.3	30.4	56.4	47.8	41.2	30.6	57.5	48.5	41.8	30.7	95	
100	50.5	43.5	38.1	29.3	52.9	45.1	39.1	29.7	54.5	46.3	40.1	30	55.6	47.1	40.7	30.1	100	
105	48.3	41.9	37	28.7	51	43.7	38	29	52.8	45	38.9	29.4	53.7	45.6	39.6	29.6	105	
110	46.1	40.2	35.9	28	49.1	42.2	37	28.5	51.1	43.7	38	28.8	52.2	44.5	38.6	29	110	
115	44.4	38.9	34.8	27.4	47.1	40.8	36	27.9	49.4	42.4	37.1	28.3	50.6	43.3	37.7	28.5	115	
120	42.9	37.7	33.9	26.9	45.2	39.4	35	27.4	47.6	41.1	36.2	27.8	49.1	42.2	36.9	28	120	
125	41.4	36.6	33.1	26.4	43.8	38.2	34.1	26.9	45.9	39.8	35.2	27.3	47.6	41.1	36.1	27.6	125	
130	39.8	35.4	32.2	25.9	42.4	37.1	33.4	26.4	44.2	38.7	34.3	26.8	46.1	40	35.2	27.1	130	
135	38.3	34.3	31.4	25.5	41	36.1	32.6	26	43	37.6	33.6	26.4	44.6	38.8	34.4	26.7	135	
140	36.8	33.3	30.7	25.1	39.6	35.1	31.8	25.6	41.8	36.7	32.9	26	43.2	37.8	33.6	26.3	140	
145	35.6	32.4	30	24.7	38.2	34.1	31.1	25.2	40.5	35.7	32.2	25.6	42	36.9	33	25.9	145	
150	34.5	31.6	29.4	24.4	36.8	33.1	30.4	24.8	39.3	34.8	31.5	25.3	40.9	36	32.4	25.6	150	
155	33.5	30.8	28.7	24.1	35.6	32.3	29.9	24.5	38.1	33.8	30.9	24.9	39.8	35.2	31.8	25.3	155	
160	32.5	30	28.2	23.9	34.6	31.6	29.3	24.2	36.9	33	30.3	24.6	38.7	34.3	31.1	25	160	
165	31.5	29.2	27.7	23.6	33.7	30.9	28.7	24	35.6	32.2	29.7	24.3	37.7	33.5	30.5	24.7	165	
170	30.5	28.6	27.2	23.5	32.8	30.1	28.2	23.7	34.8	31.5	29.2	24.1	36.6	32.7	30	24.4	170	
175	29.6	28	26.8		31.9	29.4	27.7	23.6	33.9	30.8	28.7	23.9	35.5	31.9	29.5	24.1	175	
180	28.9	27.4	26.3		30.9	28.7	27.3	23.4	33	30.2	28.1	23.6	34.6	31.3	29	23.9	180	
185	28.2	26.8	26		30	28.2	26.9		32.2	29.5	27.7	23.5	33.8	30.7	28.6	23.7	185	
190	27.5	26.3	25.7		29.3	27.7	26.5		31.3	28.9	27.3	23.3	33	30.1	28.1	23.5	190	
195	26.8	26	25.5		28.6	27.1	26.1		30.5	28.3	26.9		32.3	29.5	27.6	23.3	195	
200	26.2	25.6			28	26.6	25.9		29.7	27.8	26.6		31.5	28.9	27.3	23.2	200	
205	25.7	25.3			27.3	26.2	25.6		29	27.4	26.2		30.7	28.4	27	23.1	205	
210	25.3				26.7	25.9	25.4		28.4	26.9	25.9		29.9	27.9	26.6		210	
215					26.2	25.5			27.8	26.5	25.7		29.2	27.5	26.3		215	
220					25.7	25.3			27.2	26	25.5		28.7	27	26		220	
225					25.3				26.6	25.7	25.3		28.1	26.6	25.7		225	
230					24.8				26.1	25.5			27.6	26.2	25.5		230	
235									25.7	25.2			27	25.8	25.3		235	
240									25.3	25			26.5	25.6	25.2		240	
245									22.7				26	25.3			245	
250													25.7	25.1			250	
255													24.1	24.9			255	
260													18.9				260	
265													11.3				265	

* adapter · pièce d'adaptateur

t_198_004_00601_00_000

E



**Lifting capacities
Forces de levage**
TYVENZF 100 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		100 ft			100 ft			100 ft			100 ft			100 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	30	91.7				90.4												30	
	32	89.5																32	
	34	87.2				88.5												34	
	36	85				86.5				86.3								36	
	38	82.8				84.5				84.5				83.1				38	
	40	80.6				82.5				82.7				81.7				40	
	45	76				77.5				78.3				77.8				45	
	50	72	58.6			73.7	58.5			74.2				73.9				50	
	55	67.9	55.9			70	56.3			70.8	56.3			70.6	55.6			55	
	60	64.1	53.5			66.4	53.9			67.6	54.2			67.7	53.9			60	
	65	61.1	51.4	43		62.9	51.9			64.3	52.1			64.8	52			65	
	70	58.3	49.3	41.3		60.2	49.9	41.9		61.2	50.3	42		62	50.2			70	
	75	55.5	47.3	39.8		57.8	48	40.4		58.8	48.6	40.7		59.2	48.7	40.6		75	
	80	52.8	45.5	38.4		55.3	46.2	39.1		56.6	46.9	39.5		57.1	47.1	39.4		80	
	85	50.5	43.8	37		52.8	44.7	37.7		54.4	45.3	38.3		55.1	45.6	38.4		85	
	90	48.4	42	35.8	27.7	50.7	43.2	36.4		52.1	43.9	37.1		53.1	44.2	37.4		90	
	95	46.6	40.4	34.6	27	48.6	41.7	35.4	27.3	50.1	42.6	36	27.5	51.1	43	36.4		95	
	100	44.8	39.1	33.4	26.4	47	40.3	34.3	26.6	48.3	41.2	35	26.9	49.2	41.7	35.5	27	100	
	105	42.9	37.7	32.4	25.7	45.4	39	33.2	26	46.7	39.8	34	26.3	47.5	40.5	34.6	26.4	105	
	110	41.1	36.2	31.5	25.1	43.8	37.8	32.2	25.4	45.2	38.7	33	25.7	45.9	39.3	33.6	25.9	110	
	115	39.3	34.8	30.5	24.5	42.1	36.5	31.4	24.9	43.8	37.6	32.2	25.2	44.6	38.3	32.7	25.4	115	
	120	37.8	33.5	29.6	23.9	40.5	35.3	30.5	24.3	42.3	36.6	31.4	24.7	43.3	37.3	31.9	24.9	120	
	125	36.5	32.5	28.7	23.4	38.9	34.1	29.6	23.8	40.8	35.5	30.6	24.2	42	36.4	31.2	24.4	125	
	130	35.2	31.5	28	23	37.6	33	28.8	23.4	39.4	34.4	29.8	23.8	40.7	35.4	30.5	24	130	
	135	33.9	30.5	27.3	22.5	36.4	32	28.1	22.9	37.9	33.3	29	23.3	39.4	34.5	29.7	23.6	135	
	140	32.6	29.5	26.5	22.1	35.2	31.1	27.5	22.5	36.9	32.4	28.3	22.9	38.1	33.5	29	23.2	140	
	145	31.3	28.5	25.8	21.7	34	30.2	26.8	22.1	35.8	31.5	27.7	22.5	36.9	32.6	28.3	22.8	145	
	150	30.1	27.7	25.2	21.3	32.8	29.4	26.2	21.8	34.8	30.7	27.1	22.1	35.9	31.8	27.7	22.5	150	
	155	29.2	27	24.7	20.9	31.6	28.5	25.6	21.4	33.7	29.9	26.5	21.8	35	31	27.2	22.1	155	
	160	28.3	26.3	24.1	20.7	30.5	27.7	25	21.1	32.7	29.1	25.9	21.5	34.1	30.3	26.6	21.8	160	
	165	27.5	25.5	23.6	20.4	29.7	27	24.5	20.8	31.6	28.3	25.3	21.2	33.2	29.6	26.1	21.5	165	
	170	26.6	24.8	23.1	20.1	28.8	26.4	24	20.5	30.6	27.6	24.8	20.9	32.3	28.8	25.6	21.2	170	
	175	25.7	24.2	22.7	19.9	28	25.7	23.6	20.3	29.7	27	24.4	20.6	31.4	28.1	25.1	21	175	
	180	24.9	23.6	22.3	19.8	27.2	25.1	23.1	20	29	26.4	23.9	20.4	30.5	27.4	24.6	20.7	180	
	185	24.3	23.1	21.9		26.3	24.5	22.7	19.9	28.2	25.8	23.5	20.2	29.6	26.8	24.2	20.5	185	
	190	23.6	22.6	21.5		25.5	23.9	22.3	19.7	27.5	25.2	23	20	28.9	26.3	23.8	20.3	190	
	195	23	22.1	21.2		24.8	23.5	22		26.7	24.6	22.6	19.8	28.2	25.7	23.4	20.1	195	
	200	22.4	21.7	21		24.2	23	21.6		26	24.1	22.3	19.7	27.5	25.2	23	19.9	200	
	205	21.9	21.3	20.7		23.6	22.5	21.3		25.2	23.6	22	19.6	26.9	24.7	22.6	19.7	205	
	210	21.4	20.9			23.1	22.1	21.1		24.6	23.2	21.7		26.2	24.2	22.3	19.6	210	
	215	21	20.6			22.5	21.7	20.9		24	22.8	21.4		25.5	23.7	22	19.5	215	
	220	20.6				21.9	21.4	20.7		23.5	22.3	21.1		24.9	23.3	21.7		220	
	225					21.5	21.1			23	21.9	20.9		24.3	22.9	21.5		225	
	230					21.1	20.8			22.4	21.5	20.7		23.8	22.5	21.2		230	
	235					20.7	20.6			21.9	21.3	20.5		23.3	22.1	21		235	
	240					20.4				21.5	21			22.8	21.8	20.8		240	
	245									21.1	20.7			22.4	21.4	20.6		245	
	250									20.8	20.5			21.9	21.2	20.5		250	
	255									20.4				21.4	20.9			255	
	260													21.1	20.7			260	
	265													20.8	20.5			265	
	270													18.2				270	
	275													11.7				275	

* adapter · pièce d'adaptateur

L_198_004_00701_00_000



Lifting capacities
Forces de levage
TYVENZF 112 ft


ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
	112 ft				112 ft				112 ft				112 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
32	80.1																32	
34	78.2				78.2												34	
36	76.4				76.6				76.3								36	
38	74.5				74.9				74.8								38	
40	72.6				73.2				73.3				72				40	
45	68.3				69				69.4				68.8				45	
50	64.8				65.3				65.6				65.5				50	
55	61.4	49.9			62.2	49.9			62.6				62.4				55	
60	57.9	47.6			59.2	47.9			59.8	47.9			59.7	47.5			60	
65	54.8	45.6			56.1	45.9			57.1	46.1			57.3	45.9			65	
70	52.5	43.8	36.9		53.3	44.2			54.4	44.3			54.9	44.2			70	
75	50.1	42	35.5		51.2	42.6	35.7		51.9	42.8	35.7		52.4	42.7			75	
80	47.8	40.3	34.1		49.1	40.9	34.6		50	41.4	34.7		50.2	41.4	34.4		80	
85	45.4	38.9	32.9		47	39.4	33.4		48.1	39.9	33.7		48.5	40.1	33.5		85	
90	43.5	37.5	31.7		44.9	38.1	32.3		46.2	38.6	32.7		46.8	38.7	32.6		90	
95	41.8	36	30.6		43.1	36.9	31.2		44.3	37.4	31.7		45.1	37.6	31.8		95	
100	40.3	34.7	29.6	23	41.4	35.6	30.2	23.2	42.6	36.2	30.7		43.4	36.5	31		100	
105	38.7	33.5	28.5	22.4	40	34.3	29.3	22.6	41	35.1	29.9	22.8	41.8	35.5	30.2	22.9	105	
110	37.2	32.3	27.6	21.8	38.6	33.3	28.4	22.1	39.7	33.9	29	22.3	40.3	34.4	29.4	22.4	110	
115	35.6	31.2	26.8	21.3	37.3	32.2	27.5	21.6	38.5	32.9	28.2	21.8	39	33.4	28.6	21.9	115	
120	34.1	30	26	20.8	35.9	31.2	26.7	21.1	37.2	32	27.4	21.3	37.9	32.5	27.8	21.5	120	
125	32.7	28.8	25.1	20.3	34.5	30.1	26	20.6	36	31.1	26.7	20.8	36.8	31.7	27.1	21	125	
130	31.6	27.8	24.4	19.8	33.2	29.1	25.2	20.1	34.7	30.2	26	20.4	35.7	30.9	26.4	20.6	130	
135	30.5	26.9	23.7	19.3	32	28.1	24.5	19.7	33.5	29.3	25.3	20	34.6	30.1	25.8	20.2	135	
140	29.4	26.1	23.1	18.9	31	27.2	23.8	19.3	32.2	28.4	24.6	19.6	33.5	29.3	25.2	19.9	140	
145	28.3	25.3	22.4	18.5	30	26.5	23.2	18.9	31.3	27.6	23.9	19.2	32.4	28.5	24.6	19.5	145	
150	27.2	24.5	21.8	18.2	29	25.7	22.7	18.5	30.4	26.8	23.4	18.9	31.3	27.7	24	19.2	150	
155	26.1	23.7	21.3	17.8	28	25	22.1	18.2	29.5	26.1	22.8	18.5	30.5	27	23.4	18.8	155	
160	25.2	23	20.7	17.5	27.1	24.2	21.5	17.9	28.6	25.4	22.3	18.2	29.6	26.3	22.9	18.5	160	
165	24.4	22.4	20.3	17.2	26.1	23.5	21	17.6	27.7	24.7	21.8	17.9	28.9	25.7	22.4	18.2	165	
170	23.7	21.7	19.8	16.9	25.2	22.9	20.5	17.3	26.9	24	21.3	17.6	28.1	25	22	17.9	170	
175	22.9	21.1	19.3	16.7	24.5	22.3	20.1	17	26	23.4	20.8	17.4	27.3	24.4	21.5	17.6	175	
180	22.2	20.5	18.9	16.5	23.8	21.7	19.7	16.8	25.1	22.7	20.4	17.1	26.6	23.8	21	17.4	180	
185	21.4	20	18.5	16.3	23.1	21.2	19.3	16.6	24.5	22.2	20	16.9	25.8	23.1	20.6	17.2	185	
190	20.7	19.5	18.2	16.1	22.4	20.7	18.9	16.4	23.9	21.7	19.6	16.7	25.1	22.5	20.2	16.9	190	
195	20.1	19.1	17.9		21.7	20.1	18.5	16.2	23.2	21.2	19.2	16.5	24.4	22.1	19.9	16.7	195	
200	19.6	18.7	17.5		21.1	19.6	18.2	16.1	22.6	20.7	18.9	16.3	23.8	21.6	19.5	16.5	200	
205	19.1	18.2	17.3		20.5	19.2	17.9	16	22	20.2	18.5	16.2	23.2	21.2	19.2	16.4	205	
210	18.6	17.8	17.1		19.9	18.8	17.6		21.4	19.8	18.2	16	22.6	20.7	18.8	16.2	210	
215	18	17.5	16.9		19.5	18.4	17.3		20.7	19.3	18	15.9	22.1	20.3	18.5	16.1	215	
220	17.6	17.2	16.7		19	18.1	17.1		20.2	19	17.7		21.5	19.8	18.2	16	220	
225	17.3	16.9			18.5	17.7	17		19.7	18.6	17.4		20.9	19.4	18	15.9	225	
230	16.9				18	17.4	16.8		19.3	18.3	17.2		20.4	19	17.7		230	
235	16.7				17.6	17.2	16.6		18.9	17.9	17		19.8	18.7	17.4		235	
240					17.3	16.9			18.4	17.6	16.8		19.4	18.4	17.2		240	
245					17	16.7			18	17.3	16.7		19	18.1	17		245	
250					16.7				17.6	17.1	16.6		18.6	17.7	16.9		250	
255									17.3	16.9			18.3	17.4	16.7		255	
260									17	16.7			17.8	17.2	16.6		260	
265									16.6				17.5	17	16.5		265	
270									13.7				17.2	16.8			270	
275													16.9	16.6			275	
280													16				280	
285													11				285	

* adapter · pièce d'adaptateur

t_198_004_00801_00_000



Lifting capacities
Forces de levage
TYVENZF 123 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		123 ft			123 ft			123 ft			123 ft			123 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	32	70.7																32	
	34	69.4																34	
	36	67.8				67.8												36	
	38	66.3				66.6												38	
	40	64.7				65.1												40	
	45	60.9				61.6												45	
	50	57.8				58.2												50	
	55	54.9	44.5			55.4												55	
	60	52	42.7			52.8	42.7											60	
	65	49.2	40.8			50.3	41											65	
	70	46.9	39.2			47.7	39.3											70	
	75	44.9	37.7	31.7		45.6	37.9											75	
	80	42.9	36.1	30.7		43.8	36.5	31.1										80	
	85	40.9	34.7	29.5		42	35.2	30.2										85	
	90	39	33.5	28.5		40.2	33.9	29.3										90	
	95	37.4	32.3	27.4		38.5	32.8	28.4										95	
	100	35.9	31.1	26.4		36.9	31.7	27.5										100	
	105	34.6	29.9	25.5		35.5	30.6	26.6										105	
	110	33.3	28.9	24.7	19.3	34.4	29.5	25.7	19.5		35.1	30.1	26					110	
	115	32	27.9	23.8	18.8	33.2	28.6	24.8	19		34	29.1	25.3	19.2				115	
	120	30.7	26.9	23.1	18.3	32	27.7	24	18.5		32.9	28.3	24.5	18.7				120	
	125	29.4	25.9	22.4	17.8	30.8	26.9	23.4	18.1		31.9	27.5	23.8	18.3				125	
	130	28.2	24.9	21.7	17.4	29.7	26	22.7	17.6		30.8	26.7	23.2	17.9				130	
	135	27.3	24	21	16.9	28.5	25.1	22	17.2		29.8	26	22.6	17.5				135	
	140	26.3	23.2	20.3	16.5	27.5	24.3	21.4	16.8		28.7	25.2	22	17.1				140	
	145	25.4	22.5	19.7	16.2	26.6	23.5	20.7	16.5		27.7	24.5	21.3	16.7				145	
	150	24.4	21.8	19.2	15.8	25.8	22.8	20.2	16.1		26.8	23.7	20.8	16.4				150	
	155	23.5	21.1	18.7	15.5	24.9	22.1	19.7	15.8		26	23	20.2	16				155	
	160	22.5	20.4	18.1	15.1	24.1	21.5	19.1	15.5		25.3	22.4	19.7	15.7				160	
	165	21.6	19.7	17.7	14.8	23.3	20.8	18.6	15.2		24.6	21.8	19.3	15.4				165	
	170	21	19.1	17.2	14.6	22.5	20.2	18.1	14.9		23.8	21.2	18.8	15.2				170	
	175	20.3	18.6	16.8	14.3	21.6	19.6	17.7	14.6		23.1	20.6	18.3	14.9				175	
	180	19.7	18.1	16.4	14.1	21	19	17.3	14.4		22.4	20	17.9	14.7				180	
	185	19	17.6	16	13.8	20.4	18.6	16.9	14.1		21.6	19.4	17.5	14.4				185	
	190	18.4	17.1	15.6	13.6	19.8	18.1	16.5	14		21	18.9	17.1	14.2				190	
	195	17.8	16.6	15.3	13.4	19.2	17.6	16.1	13.8		20.4	18.5	16.7	14				195	
	200	17.2	16.2	15	13.3	18.6	17.2	15.8	13.6		19.9	18.1	16.4	13.8				200	
	205	16.7	15.8	14.7	13.2	18	16.7	15.5	13.4		19.3	17.6	16.1	13.6				205	
	210	16.3	15.4	14.4		17.4	16.3	15.2	13.3		18.8	17.2	15.7	13.5				210	
	215	15.8	15	14.2		16.9	15.9	14.9	13.2		18.2	16.8	15.4	13.3				215	
	220	15.4	14.7	14		16.5	15.6	14.6			17.7	16.4	15.2	13.2				220	
	225	14.9	14.4	13.9		16.1	15.3	14.4			17.2	16	14.9	13.1				225	
	230	14.6	14.2	13.7		15.7	14.9	14.2			16.7	15.7	14.7					230	
	235	14.2	13.9			15.3	14.6	14			16.3	15.4	14.4					235	
	240	13.9	13.8			14.9	14.3	13.8			15.9	15.1	14.2					240	
	245	13.7				14.5	14.1	13.7			15.5	14.8	14					245	
	250					14.2	13.9				15.2	14.5	13.9					250	
	255					13.9	13.7				14.8	14.3	13.7					255	
	260					13.7					14.4	14.1	13.6					260	
	265										14.2	13.9						265	
	270										13.9	13.7						270	
	275										13.7							275	
	280										13.4							280	
	285																	285	
	290																	290	
	295																	295	

* adapter · pièce d'adaptateur

t_198_004_00901_00_000



Lifting capacities
Forces de levage
TYVENZF 135 ft


 ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				 ft	
	135 ft				135 ft				135 ft				135 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
34	62.1																34	
36	60.8																36	
38	59.5				60.3												38	
40	58.2				59.3				58.8								40	
45	54.9				56.2				56.2				55.4				45	
50	51.9				53.2				53.4				52.9				50	
55	49.4				50.5				50.7				50.5				55	
60	46.9	38.3			48.2				48.5				48.2				60	
65	44.4	36.7			46	36.8			46.4	36.7			46.2				65	
70	42	35.1			43.7	35.3			44.4	35.3			44.4	35			70	
75	40.2	33.7			41.5	33.9			42.3	34			42.6	33.8			75	
80	38.5	32.4			39.9	32.6			40.3	32.8			40.8	32.6			80	
85	36.8	31.1	27.2		38.3	31.4	27.3		38.8	31.6			39	31.5			85	
90	35.1	29.9	26.3		36.7	30.2	26.4		37.4	30.5	26.4		37.6	30.5	26.2		90	
95	33.5	28.8	25.4		35.1	29.1	25.6		36	29.4	25.6		36.4	29.5	25.5		95	
100	32.1	27.8	24.4		33.5	28.2	24.8		34.6	28.5	24.9		35.1	28.5	24.8		100	
105	30.9	26.7	23.5		32.3	27.2	24		33.2	27.6	24.2		33.9	27.6	24.2		105	
110	29.7	25.7	22.7		31.1	26.3	23.2		32	26.7	23.5		32.6	26.8	23.5		110	
115	28.6	24.8	21.9	16.5	30.1	25.3	22.5		30.7	25.9	22.8		31.4	26.1	22.9		115	
120	27.5	24	21.2	16	29	24.5	21.7	16.2	29.8	25	22.1	16.3	30.3	25.3	22.3		120	
125	26.4	23.1	20.4	15.6	27.9	23.8	21	15.7	28.9	24.2	21.5	15.8	29.4	24.5	21.7	15.9	125	
130	25.2	22.3	19.8	15.1	26.9	23	20.3	15.3	27.9	23.6	20.9	15.5	28.5	23.8	21.2	15.5	130	
135	24.1	21.4	19.2	14.7	25.8	22.3	19.8	14.9	27	22.9	20.3	15	27.7	23.1	20.6	15.2	135	
140	23.3	20.6	18.6	14.3	24.8	21.6	19.2	14.5	26	22.3	19.7	14.7	26.8	22.6	20.1	14.9	140	
145	22.5	19.9	17.9	13.9	23.9	20.8	18.6	14.2	25	21.6	19.2	14.4	26	22	19.6	14.5	145	
150	21.7	19.3	17.3	13.6	23.1	20.2	18	13.8	24.1	21	18.7	14	25.1	21.4	19.1	14.2	150	
155	20.9	18.6	16.9	13.2	22.4	19.5	17.5	13.5	23.3	20.3	18.1	13.7	24.3	20.8	18.6	13.9	155	
160	20.1	18	16.4	12.9	21.6	18.9	17	13.2	22.7	19.7	17.6	13.4	23.5	20.2	18.1	13.6	160	
165	19.3	17.4	15.9	12.6	20.9	18.3	16.5	12.9	22	19.2	17.1	13.1	22.8	19.7	17.6	13.3	165	
170	18.5	16.8	15.4	12.3	20.2	17.8	16.1	12.6	21.4	18.6	16.7	12.8	22.1	19.1	17.1	13.1	170	
175	17.9	16.2	15	12	19.5	17.2	15.7	12.3	20.7	18.1	16.3	12.6	21.5	18.6	16.7	12.8	175	
180	17.3	15.7	14.6	11.8	18.8	16.6	15.2	12.1	20.1	17.6	15.9	12.3	21	18.2	16.4	12.6	180	
185	16.7	15.3	14.2	11.5	18.1	16.1	14.8	11.9	19.4	17	15.5	12.1	20.4	17.7	16	12.3	185	
190	16.2	14.8	13.9	11.3	17.6	15.7	14.5	11.6	18.8	16.5	15.1	11.9	19.9	17.2	15.6	12.1	190	
195	15.6	14.4	13.5	11.2	17	15.2	14.1	11.4	18.2	16	14.7	11.7	19.3	16.8	15.2	11.9	195	
200	15	14	13.2	11	16.5	14.8	13.8	11.3	17.7	15.6	14.4	11.5	18.7	16.3	14.9	11.7	200	
205	14.5	13.5	12.9	10.8	16	14.4	13.5	11.1	17.2	15.2	14.1	11.3	18.2	15.8	14.5	11.5	205	
210	14	13.2	12.6	10.7	15.4	14	13.1	10.9	16.7	14.8	13.8	11.1	17.7	15.4	14.2	11.3	210	
215	13.6	12.9	12.3	10.6	14.9	13.6	12.9	10.8	16.2	14.4	13.5	11	17.2	15.1	14	11.2	215	
220	13.2	12.5	12		14.4	13.2	12.6	10.6	15.7	14.1	13.2	10.8	16.8	14.7	13.7	11	220	
225	12.8	12.2	11.8		14	12.9	12.4	10.5	15.2	13.7	12.9	10.7	16.3	14.4	13.4	10.9	225	
230	12.5	11.9	11.6		13.6	12.7	12.1		14.7	13.3	12.6	10.6	15.9	14.1	13.1	10.8	230	
235	12.1	11.6	11.4		13.2	12.4	11.9		14.2	13	12.4	10.5	15.4	13.7	12.8	10.6	235	
240	11.8	11.4	11.3		12.8	12.1	11.7		13.8	12.7	12.2		15	13.3	12.6	10.5	240	
245	11.5	11.2			12.4	11.8	11.5		13.5	12.5	12		14.5	13	12.4	10.5	245	
250	11.2	11			12.1	11.6	11.3		13.1	12.2	11.7		14.1	12.8	12.2	10.4	250	
255	11				11.8	11.4	11.2		12.8	11.9	11.6		13.7	12.5	12		255	
260					11.5	11.2			12.4	11.7	11.4		13.4	12.3	11.8		260	
265					11.3	11			12.1	11.5	11.3		13.1	12	11.6		265	
270					11				11.8	11.3	11.2		12.8	11.8	11.5		270	
275						10.8			11.5	11.1			12.5	11.5	11.3		275	
280									11.3	11			12.2	11.4	11.2		280	
285									11.1	10.9			11.9	11.2	11.1		285	
290									10.9				11.6	11			290	
295													11.4	10.9			295	
300													11.2	10.8			300	
305													9.6				305	

* adapter · pièce d'adaptateur

t_198_004_01001_00_000



**Lifting capacities
Forces de levage**
TYVENZF 146 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		146 ft				146 ft				146 ft				146 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	36	55.6																36	
	38	54.5																38	
	40	53.3				53.4												40	
	45	50.4				50.8				50.6				49.7				45	
	50	47.6				48.2				48.2				47.6				50	
	55	45.3				45.7				45.9				45.5				55	
	60	43.2				43.5				43.7				43.4				60	
	65	41.1	33.3			41.6				41.9				41.6				65	
	70	39	31.9			39.7	31.9			40.1	31.8			40				70	
	75	37	30.5			37.8	30.6			38.4	30.6			38.4	30.8			75	
	80	35.5	29.3			36	29.4			36.6	29.4			36.8	29.7			80	
	85	34	28.2			34.6	28.3			35	28.4			35.2	28.7			85	
	90	32.5	27	23.7		33.3	27.3	23.7		33.7	27.4			33.8	27.8			90	
	95	31	26	22.9		31.9	26.2	23		32.5	26.5	22.9		32.6	26.9	22.7		95	
	100	29.7	25	22.1		30.6	25.3	22.2		31.2	25.5	22.2		31.5	25.9	22.1		100	
	105	28.4	24.1	21.3		29.3	24.4	21.5		30	24.7	21.6		30.4	25.1	21.5		105	
	110	27.4	23.2	20.6		28.1	23.6	20.9		28.8	23.9	21		29.3	24.3	20.9		110	
	115	26.4	22.3	19.9		27.1	22.8	20.2		27.7	23.1	20.3		28.2	23.6	20.3		115	
	120	25.4	21.5	19.2		26.2	22	19.5		26.7	22.4	19.7		27.2	22.9	19.8		120	
	125	24.4	20.8	18.5	13.8	25.3	21.2	18.9		25.9	21.6	19.2		26.2	22.2	19.3		125	
	130	23.4	20.1	17.8	13.4	24.4	20.6	18.3	13.5	25	20.9	18.6	13.6	25.4	21.4	18.8		130	
	135	22.4	19.4	17.2	13	23.5	20	17.7	13.2	24.2	20.3	18.1	13.3	24.7	20.8	18.3	13.3	135	
	140	21.4	18.7	16.7	12.6	22.6	19.3	17.1	12.8	23.4	19.8	17.6	12.9	24	20.3	17.8	13	140	
	145	20.7	18	16.1	12.2	21.7	18.7	16.6	12.4	22.6	19.2	17.1	12.6	23.2	19.7	17.3	12.7	145	
	150	20	17.3	15.5	11.9	20.8	18.1	16.1	12.1	21.8	18.6	16.6	12.3	22.5	19.2	16.9	12.3	150	
	155	19.3	16.7	15	11.6	20.1	17.4	15.6	11.8	21	18.1	16.1	11.9	21.7	18.7	16.5	12.1	155	
	160	18.6	16.1	14.5	11.3	19.5	16.9	15.1	11.5	20.2	17.5	15.6	11.6	21	18.1	16	11.8	160	
	165	17.8	15.6	14.1	10.9	18.9	16.3	14.6	11.2	19.6	17	15.2	11.4	20.3	17.6	15.6	11.6	165	
	170	17.1	15	13.7	10.7	18.3	15.8	14.2	10.9	19	16.5	14.7	11.1	19.6	17.1	15.2	11.3	170	
	175	16.4	14.5	13.2	10.4	17.7	15.3	13.8	10.7	18.5	16	14.3	10.8	19	16.6	14.8	11	175	
	180	15.8	14	12.8	10.1	17	14.8	13.4	10.4	18	15.5	13.9	10.6	18.5	16.1	14.4	10.8	180	
	185	15.3	13.5	12.5	9.9	16.4	14.3	13	10.2	17.4	15.1	13.6	10.4	18	15.7	14	10.5	185	
	190	14.7	13.1	12.1	9.7	15.8	13.8	12.6	9.9	16.9	14.6	13.2	10.2	17.5	15.3	13.6	10.4	190	
	195	14.2	12.7	11.8	9.5	15.3	13.4	12.3	9.7	16.3	14.2	12.8	10	17	14.9	13.3	10.1	195	
	200	13.7	12.3	11.5	9.3	14.8	13	12	9.5	15.8	13.7	12.5	9.8	16.6	14.5	13	9.9	200	
	205	13.2	11.9	11.1	9.1	14.3	12.6	11.7	9.3	15.3	13.3	12.2	9.6	16.1	14.1	12.7	9.8	205	
	210	12.6	11.5	10.8	9	13.9	12.3	11.4	9.2	14.8	12.9	11.9	9.4	15.6	13.7	12.3	9.6	210	
	215	12.2	11.1	10.6	8.8	13.4	11.9	11.1	9	14.4	12.6	11.6	9.2	15.1	13.3	12	9.4	215	
	220	11.8	10.8	10.3	8.7	13	11.6	10.8	8.9	14	12.3	11.4	9.1	14.7	13	11.8	9.3	220	
	225	11.4	10.5	10.1	8.6	12.5	11.2	10.6	8.8	13.6	11.9	11.1	9	14.3	12.7	11.5	9.1	225	
	230	11	10.3	9.8		12.1	10.9	10.3	8.7	13.1	11.6	10.8	8.8	13.9	12.4	11.3	9	230	
	235	10.7	10	9.6		11.7	10.6	10.1	8.6	12.7	11.3	10.6	8.7	13.5	12	11	8.9	235	
	240	10.3	9.7	9.5		11.4	10.4	9.9		12.3	10.9	10.4	8.6	13.1	11.7	10.8	8.8	240	
	245	10	9.5	9.3		11	10.1	9.7		11.9	10.7	10.2	8.6	12.8	11.4	10.5	8.7	245	
	250	9.7	9.3	9.1		10.7	9.8	9.5		11.5	10.4	10	8.5	12.4	11.1	10.3	8.6	250	
	255	9.4	9.1			10.4	9.6	9.4		11.2	10.2	9.8		12	10.8	10.2	8.5	255	
	260	9.2	8.9			10.1	9.4	9.2		10.9	9.9	9.6		11.6	10.6	10	8.4	260	
	265	9				9.8	9.2	9.1		10.6	9.7	9.4		11.3	10.4	9.8		265	
	270					9.5	9.1			10.3	9.5	9.3		11.1	10.1	9.6		270	
	275					9.3	8.9			10	9.3	9.2		10.8	9.9	9.4		275	
	280					9.1	8.8			9.7	9.1	9		10.5	9.7	9.3		280	
	285					8.9				9.5	9			10.2	9.4	9.2		285	
	290									9.3	8.9			9.9	9.3	9.1		290	
	295									9.1	8.8			9.7	9.1	9		295	
	300									8.9				9.5	9			300	
	305													9.3	8.9			305	
	310													9.1	8.8			310	
	315													8.5				315	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYVENZF 157 ft


ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
	157 ft				157 ft				157 ft				157 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
36	49.6								28	23.7	19.7		28.1	23.6			36	
38	48.9								26.9	22.8	19.1		27.2	22.8	19		38	
40	47.9				47.6				25.8	22	18.4		26.2	22.1	18.4		40	
45	45.5				45.7				24.8	21.3	17.9		25.2	21.3	17.9		45	
50	43				43.5				23.8	20.6	17.4		24.3	20.7	17.4		50	
55	40.9				41.2				22.9	19.9	16.8		23.3	20.1	16.9		55	
60	39				39.2				21.9	17.9	14.8		22.4	19.5	16.4		60	
65	37.1				37.5				21.1	17.1	14.1		21.8	18.8	15.9		65	
70	35.3	29.5			35.8	29.6			20.3	16.6	13.6		20.1	17.5	14.1		70	
75	33.4	28.2			34.1	28.5			19.5	15.9	12.9		19.4	16.1	13.1		75	
80	32	27			32.4	27.3			18.7	15.3	12.4		18.6	15.4	12.4		80	
85	30.6	25.9			31.1	26.3			18	14.9	11.8		18.5	15.5	12.5		85	
90	29.4	24.8			29.8	25.3			17.2	14.1	11.1		17.7	14.7	11.7		90	
95	28	23.7	20.4		28.7	24.4			16.5	13.4	10.4		16.2	13.2	10.2		95	
100	26.8	22.8	19.7		27.5	23.4	19.7		15.8	12.7	9.7		15.5	12.5	9.5		100	
105	25.6	22	19		26.3	22.6	19.1		15.1	12.1	9.1		14.9	11.9	8.9		105	
110	24.4	21.1	18.4		25.2	21.8	18.4		14.4	11.4	8.4		14.2	11.2	8.2		110	
115	23.6	20.2	17.7		24.1	21	17.9		13.7	10.7	7.7		13.5	10.5	7.5		115	
120	22.7	19.4	17.1		23.3	20.3	17.3		13	10.3	7.3		13	10.3	7.3		120	
125	21.9	18.8	16.5		22.5	19.6	16.7		12.5	9.5	6.5		12.3	9.3	6.3		125	
130	21	18.1	15.8		21.7	18.9	16.2		11.8	8.8	5.8		11.6	8.6	5.6		130	
135	20.1	17.5	15.2	11.3	20.9	18.3	15.6	11.4	11.1	8.1	5.1		10.9	7.9	4.9		135	
140	19.3	16.9	14.7	10.9	20.2	17.7	15.1	11	10.8	7.8	4.8		10.6	7.6	4.6		140	
145	18.4	16.2	14.2	10.5	19.4	17.2	14.6	10.7	10.5	7.5	4.5		10.3	7.3	4.3		145	
150	17.7	15.6	13.7	10.2	18.6	16.6	14.1	10.3	10.2	7.2	4.2		10.1	7.1	4.1		150	
155	17.1	15	13.2	9.9	17.8	16.1	13.7	10	9.8	6.8	3.8		9.6	6.6	3.6		155	
160	16.5	14.5	12.7	9.6	17.2	15.5	13.2	9.7	9.5	6.5	3.5		9.3	6.3	3.3		160	
165	15.9	14	12.3	9.3	16.6	15	12.8	9.5	9.3	6.3	3.3		9.1	6.1	3.1		165	
170	15.3	13.5	11.9	9	16.1	14.5	12.3	9.2	9	6.2	3.2		8.9	5.9	2.9		170	
175	14.7	13	11.5	8.7	15.6	14	11.9	9	8	5.8	3.8		8.7	5.7	2.7		175	
180	14.1	12.4	11.1	8.5	15	13.6	11.6	8.7	8.5	5.5	3.5		8.5	5.5	2.5		180	
185	13.5	11.9	10.7	8.3	14.5	13.1	11.2	8.5	8.2	5.2	3.2		8.3	5.3	2.3		185	
190	13	11.5	10.4	8.1	14	12.7	10.9	8.3	8.1	5	3		8.1	5.1	2.1		190	
195	12.5	11.1	10	7.9	13.4	12.2	10.5	8.2	7.9	4.8	2.8		7.9	4.9	2.9		195	
200	12.1	10.7	9.7	7.8	12.9	11.7	10.2	8	7.8	4.8	2.8		7.7	4.7	2.7		200	
205	11.6	10.4	9.5	7.6	12.5	11.4	9.9	7.8	7.7	4.7	2.7		7.6	4.6	2.6		205	
210	11.2	10	9.2	7.5	12.1	11	9.6	7.7	7.6	4.6	2.6		7.5	4.5	2.5		210	
215	10.8	9.6	8.9	7.3	11.7	10.7	9.4	7.5	7.4	4.5	2.5		7.4	4.4	2.4		215	
220	10.3	9.3	8.7	7.2	11.3	10.3	9.2	7.4	7.3	4.4	2.4		7.3	4.3	2.3		220	
225	9.9	9	8.5	7.1	10.9	10	8.9	7.2	7.2	4.3	2.3		7.2	4.2	2.2		225	
230	9.5	8.7	8.3	7	10.5	9.7	8.7	7.1	7.1	4.2	2.2		7.1	4.1	2.1		230	
235	9.2	8.5	8.1	6.9	10.1	9.3	8.4	7	7	4.1	2.1		7	4	2		235	
240	8.9	8.3	7.9		9.7	9	8.3	6.9	6.8	4	2		6.7	4.7	2.7		240	
245	8.6	8	7.7		9.4	8.8	8.1	6.9	6.8	4	2		6.6	4.6	2.6		245	
250	8.4	7.8	7.6		9.1	8.6	7.9	6.8	6.7	4	2		6.5	4.5	2.5		250	
255	8.1	7.6	7.5		8.8	8.4	7.8		6.5	4	2		6.4	4.4	2.4		255	
260	7.8	7.5	7.4		8.6	8.2	7.6		6.2	4	2		6.3	4.3	2.3		260	
265	7.6	7.3	7.3		8.3	8	7.5		5.9	4	2		6.2	4.2	2.2		265	
270	7.5	7.2			8	7.8	7.4		5.7	4	2		6.1	4.1	2.1		270	
275	7.3				7.8	7.6	7.3		5.5	4	2		6	4	2		275	
280	7.2				7.6	7.5	7.2		5.2	4	2		5.9	4	2		280	
285					7.5	7.4			5	4	2		5.8	4	2		285	
290					7.3	7.3			4.8	4	2		5.7	4	2		290	
295					7.1				4.6	4	2		5.6	4	2		295	
300									4.4	4	2		5.5	4	2		300	
305									4.2	4	2		5.4	4	2		305	
310									4	4	2		5.3	4	2		310	
315										4	4	2		5.2	4	2		315
320										3.8	4	2		5.1	4	2		320
325										3.6	4	2		5	4	2		325

* adapter · pièce d'adaptateur

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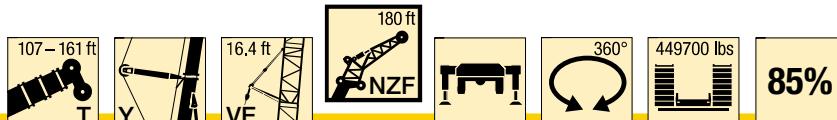
**Lifting capacities
Forces de levage**
TYVENZF 169 ft


E	ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				ft	
		169 ft				169 ft				169 ft				169 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	38	43.9								40.7								38	
	40	43.2								39.1				38.4				40	
	45	41.2				41.3				40.7								45	
	50	39.1				39.4				37.3				36.9				50	
	55	37.1				37.4				35.6				35.3				55	
	60	35.4				35.6				34				33.7				60	
	65	33.8				34				32.6				32.3				65	
	70	32.2	27			32.5				31.3				31.1				70	
	75	30.6	25.9			31.1	25.9			29.9	24.8			29.9	24.6			75	
	80	29.1	24.9			29.6	24.9			28.6	23.9			28.7	23.7			80	
	85	27.9	23.8			28.3	23.9			27.3	23			27.5	22.9			85	
	90	26.7	22.9			27.1	23			26.3	22.2			26.4	22.1			90	
	95	25.6	22			26.1	22.2			25.3	21.5			25.3	21.3			95	
	100	24.5	21.1	17.9		25	21.3			24.4	20.7	17.2		24.5	20.7			100	
	105	23.4	20.3	17.3		24	20.5	17.3		23.5	19.9	16.7		23.7	20	16.5		105	
	110	22.3	19.6	16.7		23	19.8	16.7		22.5	19.3	16.1		22.8	19.3	16		110	
	115	21.3	18.9	16.1		22	19.1	16.1		21.6	18.6	15.7		22	18.7	15.6		115	
	120	20.6	18.2	15.5		21.1	18.4	15.6		20.8	18	15.2		21.1	18.1	15.1		120	
	125	19.9	17.5	15		20.3	17.8	15.1		20	17.4	14.7		20.3	17.6	14.7		125	
	130	19.1	16.8	14.4		19.7	17.2	14.6		19.4	16.8	14.3		19.6	17	14.2		130	
	135	18.4	16.2	13.9		19	16.5	14.1		18.8	16.2	13.8		19	16.5	13.8		135	
	140	17.6	15.7	13.4	9.7	18.3	16	13.7		18.1	15.7	13.4		18.4	15.9	13.4		140	
	145	16.9	15.1	12.8	9.4	17.6	15.5	13.2	9.5	17.5	15.3	13	9.3	17.8	15.4	13.1	9.3	145	
	150	16.1	14.6	12.4	9.1	16.9	15	12.8	9.2	17.5	15.3	13	9.3					150	
	155	15.5	14	12	8.8	16.2	14.5	12.3	8.9	16.9	14.8	12.6	9	17.3	15	12.7	9.1	155	
	160	14.9	13.5	11.5	8.5	15.6	14	11.9	8.7	16.3	14.4	12.2	8.8	16.7	14.6	12.4	8.8	160	
	165	14.3	13	11.1	8.3	15	13.6	11.5	8.4	15.6	13.9	11.8	8.5	16.1	14.2	12	8.6	165	
	170	13.8	12.5	10.7	8.1	14.4	13.1	11.1	8.2	15	13.5	11.5	8.3	15.6	13.8	11.7	8.4	170	
	175	13.3	12	10.3	7.8	14	12.6	10.7	8	14.5	13.1	11.1	8.1	15	13.4	11.4	8.2	175	
	180	12.8	11.6	10	7.6	13.5	12.2	10.3	7.8	14	12.6	10.8	7.9	14.4	13	11.1	8	180	
	185	12.3	11.1	9.6	7.4	13.1	11.8	10	7.6	13.6	12.2	10.4	7.7	14	12.6	10.7	7.8	185	
	190	11.8	10.7	9.3	7.2	12.6	11.4	9.7	7.4	13.2	11.9	10.1	7.5	13.5	12.2	10.4	7.6	190	
	195	11.3	10.3	9	7	12.2	11	9.4	7.2	12.7	11.5	9.8	7.3	13.1	11.8	10.1	7.5	195	
	200	10.9	9.8	8.7	6.9	11.7	10.6	9.1	7	12.3	11.1	9.5	7.2	12.7	11.5	9.8	7.3	200	
	205	10.5	9.5	8.4	6.7	11.3	10.2	8.8	6.9	11.9	10.8	9.2	7	12.4	11.2	9.5	7.1	205	
	210	10.1	9.2	8.2	6.5	10.9	9.8	8.6	6.7	11.5	10.4	9	6.8	12	10.9	9.3	7	210	
	215	9.7	9	8	6.4	10.5	9.5	8.3	6.6	11.1	10.1	8.7	6.7	11.6	10.6	9	6.8	215	
	220	9.3	8.7	7.8	6.3	10.1	9.2	8.1	6.4	10.7	9.7	8.4	6.6	11.2	10.2	8.8	6.7	220	
	225	9	8.4	7.5	6.1	9.8	8.9	7.9	6.3	10.3	9.4	8.2	6.5	10.8	9.9	8.6	6.6	225	
	230	8.6	8.1	7.3	6	9.4	8.7	7.7	6.2	10	9.2	8	6.3	10.5	9.6	8.3	6.4	230	
	235	8.2	7.8	7.1	5.9	9.1	8.4	7.5	6.1	9.7	8.9	7.8	6.2	10.1	9.3	8.1	6.3	235	
	240	7.9	7.6	7	5.8	8.8	8.1	7.3	5.9	9.4	8.7	7.6	6.1	9.9	9.1	7.9	6.2	240	
	245	7.7	7.4	6.8	5.7	8.4	7.9	7.1	5.8	9.1	8.4	7.4	6	9.6	8.9	7.8	6.1	245	
	250	7.5	7.2	6.6	5.6	8.1	7.6	7	5.8	8.8	8.2	7.3	5.9	9.3	8.6	7.6	6	250	
	255	7.2	7	6.5		7.8	7.4	6.8	5.7	8.5	7.9	7.1	5.8	9.1	8.4	7.4	5.9	255	
	260	7	6.8	6.3		7.6	7.3	6.7	5.6	8.2	7.7	7	5.7	8.8	8.2	7.3	5.8	260	
	265	6.8	6.6	6.2		7.4	7.1	6.5		7.9	7.5	6.8	5.7	8.5	8	7.1	5.7	265	
	270	6.5	6.4	6.1		7.1	6.9	6.4		7.7	7.3	6.7	5.6	8.3	7.7	7	5.7	270	
	275	6.4	6.3	6.1		6.9	6.7	6.3		7.5	7.1	6.6		8	7.5	6.8	5.6	275	
	280	6.2	6.2			6.7	6.5	6.2		7.3	7	6.4		7.8	7.3	6.7	5.5	280	
	285	6.1	6.1			6.5	6.4	6.1		7.1	6.8	6.3		7.5	7.2	6.6		285	
	290	5.9				6.3	6.3	6		6.9	6.6	6.2		7.4	7	6.5		290	
	295					6.2	6.2			6.7	6.5	6.1		7.2	6.9	6.3		295	
	300					6.1	6.1			6.5	6.4	6		7	6.7	6.2		300	
	305					5.9				6.3	6.2	6		6.8	6.6	6.1		305	
	310									6.2	6.1			6.6	6.4	6.1		310	
	315									6.1	6			6.4	6.3	6		315	
	320									5.9				6.3	6.2	5.9		320	
	325													6.1	6.1			325	
	330													6	6			330	
	335													5.9	5.9			335	

* adapter · pièce d'adaptateur

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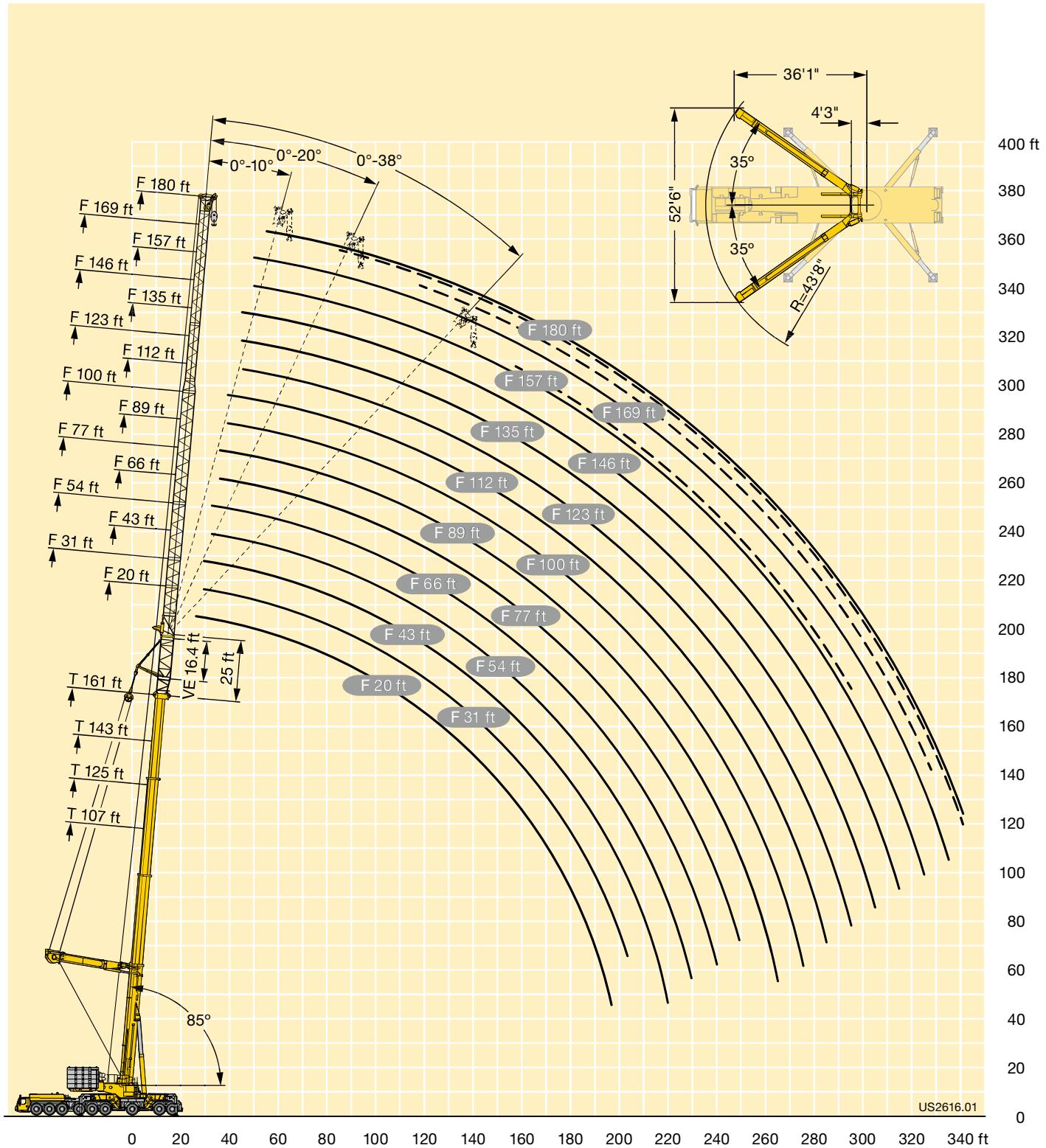


Lifting capacities
Forces de levage
TYVENZF 180 ft


 ft	107 ft + 25 ft*				125 ft + 25 ft*				143 ft + 25 ft*				161 ft + 25 ft*				 ft	
	180 ft				180 ft				180 ft				180 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
40	38.9																40	
45	37.1				37.2												45	
50	35.3				35.5				35.2								50	
55	33.5				33.8				33.7				33.1				55	
60	32				32.2				32.1				31.7				60	
65	30.5				30.6				30.7				30.3				65	
70	29.1				29.3				29.3				29				70	
75	27.7	23.3			28				28.1				27.9				75	
80	26.3	22.4			26.8	22.4			27	22.1			26.8				80	
85	25.1	21.4			25.5	21.5			25.8	21.4			25.8	21.2			85	
90	24	20.5			24.3	20.6			24.6	20.6			24.7	20.4			90	
95	23	19.7			23.3	19.8			23.5	19.9			23.7	19.7			95	
100	22	18.9			22.4	19.1			22.6	19.1			22.7	19			100	
105	21.1	18.2	15.3		21.5	18.4			21.8	18.4			21.8	18.3			105	
110	20.1	17.4	14.7		20.6	17.6	14.7		20.9	17.8	14.6		21.1	17.7			110	
115	19.2	16.8	14.2		19.7	16.9	14.2		20.1	17.1	14.2		20.3	17.1	14		115	
120	18.3	16.2	13.7		18.8	16.3	13.7		19.3	16.5	13.7		19.6	16.5	13.6		120	
125	17.7	15.5	13.2		18	15.8	13.2		18.5	15.9	13.3		18.8	15.9	13.1		125	
130	17	14.9	12.7		17.4	15.2	12.8		17.7	15.4	12.8		18.1	15.4	12.7		130	
135	16.4	14.3	12.2		16.8	14.6	12.3		17.1	14.8	12.4		17.3	14.9	12.3		135	
140	15.7	13.8	11.8		16.2	14	11.9		16.5	14.3	12		16.7	14.4	11.9		140	
145	15	13.3	11.3		15.5	13.5	11.5		15.9	13.8	11.6		16.2	14	11.6		145	
150	14.4	12.8	10.9	7.9	14.9	13.1	11.1		15.4	13.3	11.2		15.6	13.5	11.2		150	
155	13.7	12.4	10.4	7.6	14.3	12.7	10.7	7.7	14.8	12.9	10.9	7.7	15.1	13	10.9		155	
160	13.1	11.9	10.1	7.4	13.7	12.2	10.3	7.5	14.3	12.5	10.5	7.5	14.6	12.6	10.6	7.6	160	
165	12.6	11.4	9.7	7.1	13.1	11.8	10	7.2	13.7	12.1	10.2	7.3	14.1	12.2	10.2	7.3	165	
170	12.1	11	9.3	6.9	12.6	11.4	9.6	7	13.1	11.7	9.9	7.1	13.6	11.9	9.9	7.1	170	
175	11.6	10.5	9	6.6	12.1	11	9.3	6.8	12.6	11.3	9.6	6.9	13.1	11.5	9.6	6.9	175	
180	11.2	10.1	8.6	6.4	11.7	10.5	9	6.6	12.1	10.9	9.3	6.7	12.6	11.1	9.3	6.7	180	
185	10.7	9.8	8.3	6.1	11.3	10.2	8.7	6.3	11.7	10.5	9	6.5	12.1	10.8	9.1	6.6	185	
190	10.3	9.4	8	5.9	10.9	9.8	8.4	6.1	11.3	10.1	8.7	6.3	11.7	10.4	8.8	6.4	190	
195	9.8	9	7.8	5.6	10.5	9.5	8.1	5.9	10.9	9.8	8.4	6.1	11.2	10	8.5	6.2	195	
200	9.4	8.6	7.5	5.4	10.1	9.2	7.8	5.7	10.6	9.5	8.1	5.9	10.9	9.7	8.3	6	200	
205	9	8.3	7.2	5.2	9.7	8.9	7.6	5.5	10.2	9.2	7.9	5.7	10.5	9.4	8	5.8	205	
210	8.7	8	7	5	9.3	8.5	7.4	5.3	9.8	8.9	7.7	5.5	10.2	9.2	7.8	5.6	210	
215	8.4	7.7	6.8	4.9	8.9	8.2	7.1	5.1	9.5	8.6	7.4	5.3	9.8	8.9	7.6	5.4	215	
220	8.1	7.4	6.6	4.7	8.5	7.9	6.9	5	9.1	8.3	7.2	5.1	9.5	8.6	7.4	5.3	220	
225	7.8	7.2	6.4	4.6	8.2	7.6	6.7	4.8	8.7	8	7	5	9.2	8.4	7.1	5.1	225	
230	7.5	6.9	6.2	4.4	8	7.4	6.5	4.7	8.4	7.8	6.7	4.8	8.8	8.1	6.9	5	230	
235	7.2	6.7	6	4.3	7.7	7.2	6.3	4.5	8.1	7.5	6.6	4.7	8.5	7.8	6.7	4.8	235	
240	6.9	6.5	5.8	4.2	7.4	6.9	6.1	4.4	7.8	7.3	6.4	4.5	8.2	7.6	6.5	4.7	240	
245	6.5	6.2	5.6	4.1	7.1	6.7	5.9	4.3	7.6	7.1	6.2	4.4	7.9	7.3	6.4	4.5	245	
250	6.3	6	5.5	4	6.9	6.5	5.8	4.2	7.3	6.9	6	4.3	7.7	7.1	6.2	4.4	250	
255	6.1	5.9	5.3	3.9	6.6	6.2	5.6	4.1	7.1	6.6	5.8	4.2	7.4	6.9	6	4.2	255	
260	5.9	5.7	5.2	3.9	6.3	6	5.4	4	6.8	6.4	5.7	4.1	7.2	6.7	5.9	4.1	260	
265	5.7	5.5	5		6.1	5.9	5.3	3.9	6.5	6.2	5.5	4	6.9	6.5	5.7	4	265	
270	5.4	5.3	4.9		5.9	5.7	5.2	3.9	6.3	6	5.4	3.9	6.7	6.3	5.5	4	270	
275	5.2	5.1	4.8		5.7	5.5	5		6	5.8	5.2	3.9	6.5	6.1	5.4	3.9	275	
280	5	5	4.7		5.5	5.3	4.9		5.8	5.6	5.1	3.8	6.2	5.9	5.3	3.8	280	
285	4.8	4.9	4.6		5.3	5.2	4.8		5.7	5.5	5		6	5.7	5.1	3.8	285	
290	4.7	4.7			5.1	5	4.7		5.5	5.3	4.9		5.7	5.6	5		290	
295	4.6	4.6			4.9	4.9	4.6		5.3	5.2	4.7		5.6	5.4	4.9		295	
300	4.4				4.7	4.7	4.5		5.1	5	4.6		5.4	5.3	4.8		300	
305					4.6	4.6			4.9	4.9	4.5		5.2	5.1	4.7		305	
310					4.5	4.5			4.7	4.7	4.5		5.1	5	4.6		310	
315					4.3				4.6	4.6	4.4		4.9	4.8	4.5		315	
320					4.3				4.5	4.5			4.7	4.7	4.4		320	
325									4.4	4.4			4.6	4.6	4.3		325	
330									4.2	4.3			4.4	4.5	4.3		330	
335													4.3	4.4			335	
340													4.2	4.3			340	
345													4.2	4.2			345	

* adapter · pièce d'adaptateur

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**Lifting heights
Hauteurs de levage**
TYVENZF


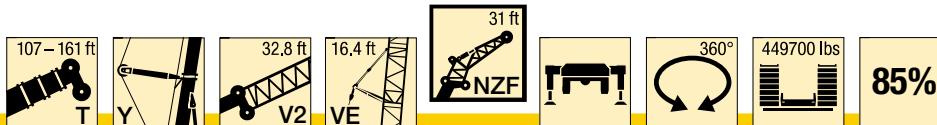
**Lifting capacities
Forces de levage**
TYV2ENZF 20 ft


 ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				 ft	
	20 ft				20 ft				20 ft				20 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
22	237.8																22	
24	236.1																24	
26	234.2	205.9			234.5												26	
28	232.2	203	160.7		232.6	205.2			231.2								28	
30	230.2	199.8	158.8		230.7	203			229.9				226.6				30	
32	228.3	196.7	156.9		228.8	200.5	158.9		228.2	201.8			226.7				32	
34	226.3	193.5	155	120.2	227	197.6	157.2		226.6	199.9	159		225.3	200.7			34	
36	224.4	190.3	153.1	119.3	225.2	194.7	155.4	120.2	225	198	157.4		223.9	199	159.1		36	
38	222.4	187.2	151.2	118	223.5	191.8	153.7	119.2	223.3	195.7	155.8	119.9	222.5	197.2	157.6		38	
40	220.5	184	149.3	116.7	221.8	188.9	152	118	221.7	193	154.2	118.8	221.1	195.5	156.1	119.5	40	
45	215.6	176.1	144.5	113.6	217.6	181.7	147.6	115	217.8	186.4	150.2	116	215.5	190.4	152.5	116.9	45	
50	209.6	168.2	140.5	110.8	213.4	174.5	143.3	112.3	214.1	179.8	146.2	113.5	206.8	184.3	148.8	114.5	50	
55	203.2	161.8	136.9	108.1	208.1	167.4	140	109.8	210.3	173.3	142.5	111.2	198.1	178.2	145.1	112.2	55	
60	196.2	156.8	133.2	105.7	202.3	161.7	136.6	107.4	205.3	166.6	139.5	108.9	189.4	172.1	141.9	110.2	60	
65	187.9	151.8	129.6	103.3	196.5	157.1	133.3	105.3	199.4	161.6	136.4	106.8	179.8	166	139.1	108.1	65	
70	179.6	146.8	125.9	101.3	189.7	152.6	130	103.2	193.4	157.4	133.4	104.9	169.5	161.5	136.2	106.3	70	
75	171.4	142.1	123.7	99.3	182.2	148.1	126.7	101.3	185.1	153.3	130.3	103	159.1	157.3	133.4	104.5	75	
80	164.1	138.2	121.5	97.3	174.6	143.5	124.3	99.6	172.9	149.1	127.3	101.2	148.7	150	130.6	102.8	80	
85	158.1	134.3	118.8	95.7	166.4	139.9	122.3	97.8	161.1	145	124.8	99.6	139.3	142.6	127.8	101.1	85	
90	152.7	130.4	115.6	94.1	156	136.4	120.2	96.3	150.6	141.3	123	98.1	131.2	135.2	125.1	99.7	90	
95	146.8	126.5	112.1	92.6	146.2	132.8	117.3	94.9	141.2	137.8	120.7	96.6	124.5	127.9	122.7	98.3	95	
100	139.2	123.8	108.8	91.3	137.2	129.3	114.2	93.6	132.4	133.1	118.1	95.3	117.9	120.5	119	96.9	100	
105	130.6	121.4	106.1	90.1	128.9	125.7	111.1	92.2	124.3	125.7	115.3	94.1	111.4	113.2	114.4	95.7	105	
110	122.6	118	103.6	88.9	121.3	121.7	108.1	91.2	117.1	118.3	112.5	92.9	104.8	106.2	108.6	94.5	110	
115	114.9	114.4	101	88	114.3	115.4	105.7	90.1	110.4	111.4	109.7	91.6	98.3	100.3	102.8	93.4	115	
120	107.8	108.7	98.5	87.1	107.7	108.8	103.4	89.1	104.1	105.1	105.4	90.7	91.9	95.2	97	92.3	120	
125	101.3	102.2	96.5	86.4	101.8	102.8	100.9	88.2	98.2	99.3	100.2	89.8	87.5	90.2	91.2	89.9	125	
130	95.3	96	94.6		96.2	97.1	97.8	87.5	92.8	93.8	94.6	88.9	83.3	85.3	86.2	86.7	130	
135	89.7	90.4	90.9		90.8	91.6	92.2	86.8	87.8	88.7	89.4	88.1	79	80.3	81.7	82.8	135	
140	84.5	85.2	85.7		85.6	86.4	86.9		83.1	83.9	84.7	85.5	74.7	75.7	77.5	78.9	140	
145	79.6	80.3	80.7		80.8	81.5	82		78.7	79.4	80.2	81.1	70.5	71.6	73.4	75	145	
150	75.1	75.7	76.1		76.3	77	77.5		74.5	75.2	75.9		66.3	68.1	69.2	71	150	
155	70.9	71.4	71.7		72.1	72.7	73.2		70.6	71.3	71.9		62.6	64.6	65.3	67.1	155	
160	66.9	67.4			68.2	68.7	69.1		66.9	67.6	68.1		59.6	61.1	61.8		160	
165	63.2	63.6			64.5	65	65.3		63.3	63.9	64.4		56.7	57.7	58.8		165	
170	57.3	58.7			61	61.5	61.7		59.9	60.4	60.8		53.7	54.3	55.7		170	
175	44.2				57.7	58.1			56.6	57.1	57.4		50.8	51.4	52.6		175	
180					54.6	55			53.5	53.9	54.3		47.8	48.9	49.5		180	
185					50.8	51.7			50.6	51	51.3		45.1	46.3	46.9		185	
190					41.7				47.8	48.2			42.7	43.8	44.4		190	
195					28.2				45.2	45.5			40.5	41.3	41.9		195	
200									42.6	43			38.3	39	39.5		200	
205									35.9				36.1	36.9			205	
210									26.4				34	34.8			210	
215													32.1	32.7			215	
220													29.2	30.1			220	
225													22				225	
230													11.9				230	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2ENZF 31 ft


F	ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
		31 ft				31 ft				31 ft				31 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	24	233.2																24	
	26	231.3				230.8												26	
	28	229.3				229.1												28	
	30	227.3	197			227.4				226								30	
	32	225.4	193.1			225.7	194.6			224.5				220.8				32	
	34	223.4	189.1	145.7		224	190.8			223				220.1				34	
	36	221.5	185.1	143.2		222.3	186.8	143		221.5	186.1			219				36	
	38	219.5	181.2	140.6		220.5	182.9	141.1		220	182.7			217.9	181.1			38	
	40	217.6	177.6	138		218.5	178.9	139		218.5	179.3	138.9		216.7	178.2			40	
	45	212.8	168.7	132.3	93.7	213.4	170.6	133.9	94.4	213.5	170.9	134.3		213.9	170.7	133.9		45	
	50	207.1	159.7	126.7	91.4	208.4	162.8	129.2	92.2	207.8	164.1	129.9	92.7	205.2	163.9	129.7	93.2	50	
	55	197.8	152.6	121.8	89.2	202.7	155	124.4	90.1	202.2	157.4	125.9	90.8	195.9	157.9	126.1	91.3	55	
	60	188.1	145.9	117.2	87.1	194.4	148.8	120.2	88.2	196.2	150.8	121.9	88.9	186.6	152	122.6	89.6	60	
	65	178.4	139.2	112.7	85.2	185.4	143	116.1	86.3	188.7	145.2	118.2	87.2	177.3	146.4	119.1	87.9	65	
	70	169.3	133.1	108.9	83.4	176.4	137.2	112	84.6	180.7	140.1	114.7	85.6	167.9	141.5	116	86.3	70	
	75	161.7	127.9	105.4	81.6	167.5	131.7	108.5	83	172.6	135	111.1	84.1	158.6	137	113	84.8	75	
	80	154.4	122.8	101.9	80	160.3	127.1	105.4	81.4	164.5	129.9	107.9	82.6	149.2	132.5	110	83.4	80	
	85	147.1	117.6	98.5	78.6	153.7	122.7	102.3	80	157	125.7	105.1	81.2	139.8	128	107.1	82.1	85	
	90	139.8	112.5	95.5	77.2	147.5	118.4	99.2	78.7	149	122	102.3	79.8	131.6	123.5	104.6	80.8	90	
	95	132.8	108.2	93	76	141.2	114	96.4	77.4	139.6	118.3	99.5	78.7	124.1	119	102.1	79.5	95	
	100	126.5	104.6	90.4	74.9	134.7	109.7	93.8	76.3	131.3	114.6	96.8	77.5	118	114.5	99.6	78.5	100	
	105	121.5	101.1	87.9	73.8	127.8	106.2	91.5	75.2	123.4	110.9	94.2	76.4	112	110	97	77.5	105	
	110	116.5	97.5	85.7	72.8	120.7	103.1	89.2	74.2	116.2	107.1	92.1	75.4	106	105.5	94.6	76.4	110	
	115	111.5	94	83.7	72	113.8	100	86.9	73.2	109.7	103.9	90.1	74.4	99.9	100.9	92.2	75.5	115	
	120	106.5	91.1	81.8	71.1	107.5	96.9	84.9	72.3	103.6	101.2	88.1	73.5	93.9	96.4	89.9	74.6	120	
	125	102	88.7	79.9	70.4	101.6	93.7	83.2	71.6	97.8	98	86	72.6	87.9	91.9	87.7	73.8	125	
	130	96.7	86.2	78.1	69.8	96.2	90.9	81.5	70.8	92.5	94	84.1	71.9	83.6	87.3	85.4	72.9	130	
	135	91.2	83.7	76.6	69.2	91.1	88.6	79.8	70.2	87.6	88.9	82.5	71.2	79.7	82.8	83	72.2	135	
	140	86	81.3	75.2		86.3	86.4	78.1	69.6	83	84.3	81	70.6	75.8	78.2	80.1	71.5	140	
	145	81.2	79.3	73.9		81.8	82.9	76.7	69.1	78.6	79.9	79.3	69.9	71.9	73.7	76.5	70.9	145	
	150	76.7	77.2	72.5		77.5	78.6	75.4		74.5	75.8	76.7	69.4	68	69.5	72.7	70.3	150	
	155	72.5	73.4	71.5		73.3	74.3	74.1		70.7	71.9	72.9	69	64.1	66.1	68.9	68.8	155	
	160	68.5	69.3	70		69.4	70.3	71		67.1	68.2	69.1		60.4	62.9	65.1	66.3	160	
	165	64.8	65.6	66.1		65.7	66.6	67.2		63.7	64.7	65.6		57.5	59.8	61.5	63.1	165	
	170	61.3	62			62.2	63	63.6		60.5	61.4	62.3		54.8	56.7	58.2	59.9	170	
	175	58	58.6			59	59.7	60.2		57.5	58.3	59.1		52.1	53.5	55.3		175	
	180	53.4	54.9			55.9	56.5	57		54.5	55.3	55.9		49.4	50.6	52.4		180	
	185	42.5				52.9	53.5			51.6	52.3	52.9		46.7	47.9	49.5		185	
	190					50.2	50.7			48.9	49.5	50		44	45.5	46.7		190	
	195					47	48			46.2	46.8	47.3		41.6	43.2	44.2		195	
	200					39.4				43.7	44.3			39.5	40.8	41.9		200	
	205					28.4				41.4	41.9			37.4	38.4	39.5		205	
	210									39.1	39.6			35.4	36.3	37.3		210	
	215									33.5				33.4	34.3			215	
	220									25.4				31.4	32.4			220	
	225													29.7	30.4			225	
	230													26.8	27.9			230	
	235													20.4				235	
	240													12.1				240	

* adapter · pièce d'adaptateur

t_198_005_00101_00_000

Lifting capacities
Forces de levage
TYV2ENZF 43 ft


 ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				 ft	
	43 ft				43 ft				43 ft				43 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
26	207.5																26	
28	203				202.2												28	
30	198.6				198.8												30	
32	194.2				194.9				193.7								32	
34	189.7	149.4			191				190.2				188				34	
36	185.4	147.1			187.1	146.9			186.8				185				36	
38	182	144.7			183.2	144.8			183.4	143.8			182.1				38	
40	178.6	142.4	116.7		179.6	142.7			180	142.3			179.1	141.2			40	
45	170.2	137	112.8		172	137.6	113.9		172.1	137.8	114.2		171.8	137.4			45	
50	161.8	131.8	109.2	76.2	164.6	133.2	110.4		165.7	133.4	111.1		165.4	133.2	111.6		50	
55	154.6	126.6	105.8	74.6	157.2	128.9	107.2	75	159.3	129.7	108	75.2	159.8	129.6	108.7		55	
60	148.6	122.3	102.5	73	150.9	124.7	104	73.5	152.9	125.9	105.2	73.8	154.1	126.2	106	74.1	60	
65	142.6	118.1	99.6	71.6	145.6	120.9	101.1	72.1	147.2	122.3	102.4	72.6	148.5	122.9	103.5	72.9	65	
70	136.5	113.9	96.8	70.3	140.4	117.2	98.5	71	142.6	119	99.8	71.4	143.4	119.6	100.9	71.7	70	
75	131.2	110.1	94.1	69.2	135.2	113.5	95.9	69.8	138	115.8	97.5	70.3	139.3	116.8	98.6	70.7	75	
80	126.6	107	91.8	68	130.3	109.9	93.5	68.7	133.4	112.6	95.2	69.2	135.2	114.1	96.4	69.7	80	
85	122.2	104	89.5	66.9	126.1	107	91.4	67.7	128.8	109.5	92.9	68.3	131.2	111.3	94.2	68.7	85	
90	117.9	100.9	87.3	65.9	122.2	104.3	89.4	66.7	124.6	106.7	91	67.3	127.1	108.6	92.1	67.8	90	
95	113.5	97.9	85.2	65	118.4	101.6	87.4	65.8	121	104.3	89.2	66.4	122.5	106	90.3	67	95	
100	109.2	95.1	83.3	64.1	114.6	98.9	85.5	64.9	117.8	101.8	87.3	65.5	117.6	103.8	88.6	66.1	100	
105	105.2	92.9	81.6	63.4	110.9	96.2	83.6	64.1	114.6	99.4	85.5	64.8	112.2	101.6	87	65.3	105	
110	102.4	90.8	80	62.7	107.1	93.9	82	63.4	111.3	96.9	83.8	64.1	106.7	99.4	85.3	64.6	110	
115	99.5	88.6	78.3	62	103.8	91.8	80.5	62.7	108.1	94.4	82.2	63.4	101.3	97.2	83.7	63.9	115	
120	96.6	86.5	76.9	61.5	101.1	89.9	79	62.1	102.9	92.3	80.8	62.8	95.9	95	82	63.3	120	
125	93.7	84.6	75.6	61	98.6	87.9	77.5	61.5	97.6	90.4	79.4	62.2	90.4	92.3	80.8	62.7	125	
130	90.9	82.8	74.4	60.5	95.2	86	76.2	61.1	92.3	88.7	78.1	61.6	85	89.2	79.6	62.2	130	
135	88.4	81.2	73.2	60.1	91.2	84.1	75.1	60.6	87.6	86.9	76.6	61.1	80.7	85	78.4	61.7	135	
140	86.2	79.6	72	59.8	86.5	82.4	73.9	60.2	83	84	75.4	60.7	77	80.8	77.1	61.2	140	
145	82.7	78	71.1	59.6	82.1	80.9	72.8	59.9	78.7	80.5	74.4	60.3	73.3	76.5	75.6	60.7	145	
150	78.2	76.5	70.2		78	79.2	71.7	59.6	74.7	76.4	73.4	59.9	69.7	72.6	73.6	60.3	150	
155	74	74.8	69.3		74.1	75.5	70.8	59.4	71	72.5	72.2	59.6	66.1	68.8	70.2	60	155	
160	70	71.3	68.5		70.5	71.8	70		67.4	68.9	70.1	59.3	62.5	65	66.8	59.6	160	
165	66.3	67.5	67.7		66.9	68.2	69		64.1	65.5	66.7	59.2	58.9	61.9	63.3	59.1	165	
170	62.8	63.9	64.6		63.5	64.6	65.6		60.9	62.2	63.4	59	55.7	58.8	60.1	58.3	170	
175	59.5	60.5	61.2		60.2	61.3	62.1		57.9	59.1	60.2		53.2	55.8	57	57.2	175	
180	56.5	57.3	57.9		57.1	58.1	58.9		55	56.2	57.2		50.7	52.9	54.1	55.3	180	
185	53.5	54.2			54.2	55.1	55.8		52.3	53.4	54.4		48.2	50.2	51.3		185	
190	49.6	51.3			51.4	52.2	52.9		49.7	50.8	51.6		45.7	47.5	48.7		190	
195	40.7				48.8	49.5	50.1		47.3	48.2	49		43.2	45.1	46.1		195	
200	27.6				46.3	46.9			44.8	45.7	46.4		40.7	42.8	43.7		200	
205					43.6	44.5			42.5	43.3	43.9		38.5	40.6	41.4		205	
210					37.2				40.2	40.9	41.5		36.6	38.4	39.2		210	
215					27.9				38.1	38.7			34.7	36.2	37.1		215	
220									36	36.6			32.8	34.1	35		220	
225									31.3	33.4			30.9	32.3	33		225	
230									24.2				29	30.4			230	
235									14.7				27.4	28.6			235	
240													24.5	26.6			240	
245													18.9				245	
250													11.8				250	

* adapter · pièce d'adaptateur

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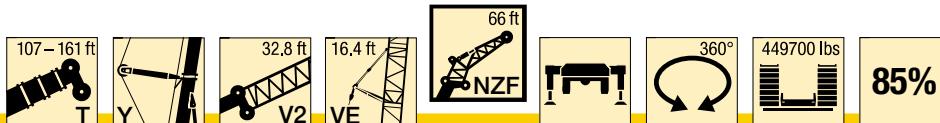
**Lifting capacities
Forces de levage**
TYV2ENZF 54 ft


F	ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
		54 ft				54 ft				54 ft				54 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	28	168.6																28	
	30	164.8				163.8												30	
	32	160.9				160.6				158.1								32	
	34	157.1				157.3				156.2								34	
	36	153.2	110			154				153.1								36	
	38	149.4	107.7			150.7	107.2			150								38	
	40	145.8	105.4			147.3	105.3			146.8								40	
	45	136.8	99.6	78.5		139.2	100.3			139.1	100.3							45	
	50	127.9	95	75.4		131.2	95.6	75.6		132.1	95.8	75.4						50	
	55	119.2	90.5	72.5		123.2	91.6	73		125.1	91.9	73.1						55	
	60	112.9	86	69.7	50.6	115.6	87.6	70.6	50.9	118.2	88.4	70.7		119.6	88.8	70.8		60	
	65	106.9	82.6	67	49.3	109.8	83.9	68.3	49.7	111.6	84.9	68.7	50	113.6	85.6	68.9	50.2	65	
	70	101	79.2	64.7	48	104.6	80.8	66	48.6	106.4	81.7	66.6	48.9	107.9	82.5	67	49.2	70	
	75	95	75.9	62.3	47	99.4	77.8	63.9	47.5	101.9	78.9	64.7	47.9	103.3	79.7	65.1	48.3	75	
	80	90.5	72.8	60	45.9	94.2	74.8	61.8	46.5	97.4	76.3	62.9	47	99.3	77.2	63.4	47.4	80	
	85	86.7	70.1	58.2	45	89.8	72	59.8	45.6	92.8	73.6	61.1	46.1	95.3	74.8	61.9	46.5	85	
	90	83	67.6	56.4	44.1	86.1	69.6	58	44.7	88.6	71.1	59.4	45.2	91.3	72.5	60.4	45.7	90	
	95	79.4	65	54.7	43.1	82.9	67.4	56.4	43.9	85.2	68.8	57.8	44.4	87.3	70.1	58.9	44.9	95	
	100	75.7	62.4	52.9	42.3	79.7	65.2	54.8	43.1	82.1	67	56.3	43.7	84.2	68	57.5	44.2	100	
	105	72.1	59.9	51.4	41.6	76.4	63	53.2	42.4	79.3	65.1	54.9	43	81.2	66.3	56.2	43.5	105	
	110	68.9	57.9	50	40.8	73.2	60.8	51.8	41.7	76.5	63.2	53.4	42.3	78.7	64.6	54.8	42.8	110	
	115	66.3	56.1	48.7	40.2	70.1	58.8	50.4	41	73.7	61.3	52	41.6	76.2	62.9	53.5	42.2	115	
	120	63.8	54.3	47.4	39.6	67.2	57	49.2	40.4	70.8	59.4	50.6	41	73.6	61.2	52.2	41.6	120	
	125	61.4	52.5	46.1	39	65.1	55.4	48	39.8	68.1	57.7	49.5	40.4	71.1	59.5	50.9	41.1	125	
	130	58.9	50.7	45	38.5	62.9	53.7	46.8	39.3	65.6	56.1	48.4	39.9	68.5	57.9	49.8	40.5	130	
	135	56.4	49.2	44	38.1	60.8	52.1	45.7	38.7	63.7	54.6	47.3	39.4	66	56.4	48.8	40	135	
	140	54.2	47.9	43	37.6	58.6	50.5	44.7	38.2	61.9	53.1	46.3	38.9	63.9	55	47.8	39.5	140	
	145	52.5	46.6	42.1	37.2	56.5	49	43.8	37.8	60	51.7	45.3	38.4	62.3	53.7	46.8	39.1	145	
	150	50.8	45.3	41.2	36.8	54.5	47.8	42.9	37.4	58.1	50.2	44.4	38	60.7	52.4	45.8	38.6	150	
	155	49.1	44	40.4	36.5	52.7	46.7	42.1	37	56.3	48.8	43.6	37.6	59.1	51.1	45	38.2	155	
	160	47.5	42.8	39.6		51.2	45.5	41.2	36.7	54.5	47.7	42.8	37.3	57.5	49.8	44.1	37.8	160	
	165	45.8	41.9	38.9		49.7	44.4	40.4	36.4	52.7	46.6	42	36.9	55.8	48.6	43.4	37.5	165	
	170	44.3	41	38.2		48.2	43.2	39.8	36.2	51.4	45.6	41.2	36.7	54.2	47.5	42.6	37.1	170	
	175	43.1	40.1	37.6		46.6	42.2	39.2		50	44.6	40.4	36.4	52.6	46.6	41.9	36.8	175	
	180	41.9	39.1	37.1		45.1	41.4	38.5		48.6	43.5	39.8	36.2	50.6	45.6	41.1	36.6	180	
	185	40.7	38.3	36.7		43.8	40.5	37.9		47.2	42.5	39.3		48.5	44.7	40.4	36.3	185	
	190	39.6	37.6	36.3		42.7	39.7	37.4		45.8	41.6	38.7		46.4	43.7	39.8	36.1	190	
	195	38.5	37			41.7	38.9	37		44.5	40.9	38.1		44.3	42.8	39.3		195	
	200	37.7	36.3			40.6	38.1	36.5		43.2	40.1	37.5		42.2	41.6	38.8		200	
	205	36.8				39.5	37.5	36.1		42.2	39.4	37.1		40.1	40.2	38.2		205	
	210	28.4				38.5	36.9			41.3	38.6	36.8		38	38.6	37.7		210	
	215					37.7	36.3			39.5	37.8	36.4		36.1	37.1	36.8		215	
	220					35.1	35.9			37.4	37.3	36		34.4	35.5	35.6		220	
	225					27.5				35.5	36.2			32.6	33.7	34.3		225	
	230									33.6	34.3			30.8	31.9	32.7		230	
	235									29.6	32			29.1	30.2	30.8		235	
	240									23.4				27.3	28.5			240	
	245									15.4				25.8	26.9			245	
	250													22.9	25			250	
	255													17.9				255	
	260													11.7				260	

* adapter · pièce d'adaptateur

t_198_005_00301_00_000



**Lifting capacities
Forces de levage**
TYV2ENZF 66 ft


 ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				 ft	
	66 ft				66 ft				66 ft				66 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
28	143.1																28	
30	139.9																30	
32	136.6				136.1												32	
34	133.4				133.3				131.9								34	
36	130.2				130.5				129.5				127.4				36	
38	127				127.7				127.1				125.7				38	
40	123.8	95.9			124.9				124.6				123.6				40	
45	117.8	92			118.3	92			118.5	92.5			118.2				45	
50	112	88.2	73.3		113.2	88.6			113.1	89.5			112.8	89.1			50	
55	106.1	85	70.9		108	85.4	71.4		108.6	86.4			108.5	86.3			55	
60	101	81.9	68.5		102.8	82.6	69.2		104.1	83.6	69.4		104.5	83.6	69.1		60	
65	96.8	78.8	66.3		98.3	79.7	67.2		99.6	81.1	67.6		100.6	81.3	67.5		65	
70	92.8	76.2	64.2	47	94.6	77.1	65.3	47.3	95.5	78.6	65.9		96.6	79	66		70	
75	88.8	73.6	62.3	46	91.1	74.8	63.4	46.3	92.3	76.2	64.1	46.5	92.9	76.7	64.5	46.6	75	
80	84.8	71.1	60.6	45	87.5	72.6	61.7	45.4	89.2	74.1	62.4	45.6	90.1	74.6	63.1	45.9	80	
85	81.8	68.6	58.8	44.1	84	70.4	60.1	44.6	86	72.2	60.9	44.8	87.3	72.7	61.7	45.1	85	
90	79	66.5	57.2	43.3	81.1	68.2	58.5	43.7	82.9	70.2	59.5	44	84.5	70.9	60.3	44.3	90	
95	76.3	64.6	55.6	42.5	78.4	66.3	57	42.9	80.1	68.1	58.1	43.3	81.7	69.1	59	43.6	95	
100	73.6	62.6	54.1	41.8	76.1	64.5	55.6	42.2	77.6	66.4	56.7	42.6	79	67.3	57.6	43	100	
105	70.9	60.6	52.5	41.1	73.8	62.8	54.2	41.6	75.4	64.8	55.4	42	76.7	65.6	56.3	42.3	105	
110	68.2	58.6	51.1	40.4	71.4	61	52.8	40.9	73.3	63.2	54.1	41.4	74.6	64.2	55.1	41.7	110	
115	65.7	56.9	49.7	39.8	69.1	59.2	51.4	40.3	71.2	61.6	52.8	40.7	72.7	62.8	53.9	41.2	115	
120	63.7	55.3	48.5	39.2	66.8	57.4	50.1	39.8	69.2	60	51.5	40.2	70.9	61.4	52.8	40.6	120	
125	61.8	53.7	47.3	38.7	64.6	55.9	48.9	39.2	67.1	58.4	50.3	39.7	69	60.1	51.6	40.1	125	
130	59.9	52.1	46.2	38.2	62.8	54.4	47.8	38.7	65	57	49.1	39.2	67.1	58.7	50.5	39.6	130	
135	58	50.6	45	37.7	61.1	53	46.7	38.3	63	55.6	48.1	38.7	65.2	57.3	49.3	39.1	135	
140	56.1	49.1	44	37.3	59.4	51.6	45.7	37.8	61.5	54.3	47.1	38.3	63.4	56	48.4	38.7	140	
145	54.2	47.8	43.2	36.9	57.7	50.2	44.6	37.4	60.1	53	46.2	37.9	61.6	54.7	47.5	38.2	145	
150	52.5	46.6	42.3	36.6	55.9	48.9	43.8	37	58.6	51.6	45.2	37.5	60.2	53.6	46.6	37.8	150	
155	51	45.5	41.4	36.2	54.2	47.6	43	36.7	57.1	50.3	44.3	37.1	58.8	52.4	45.7	37.5	155	
160	49.5	44.3	40.5	36	52.6	46.6	42.2	36.4	55.6	49.1	43.5	36.8	57.4	51.2	44.8	37.1	160	
165	48	43.1	39.8	35.8	51.2	45.5	41.4	36.1	54.1	47.9	42.7	36.5	56.1	50	44	36.8	165	
170	46.5	42.1	39.2	35.6	49.8	44.5	40.6	35.9	52.6	46.9	42	36.2	54.7	48.9	43.2	36.5	170	
175	45	41.2	38.5		48.5	43.4	39.9	35.7	51.1	45.9	41.3	35.9	53.3	47.7	42.5	36.3	175	
180	43.7	40.3	37.9		47.1	42.4	39.3	35.5	49.9	44.9	40.6	35.7	51.8	46.8	41.8	36	180	
185	42.6	39.5	37.3		45.8	41.5	38.7		48.6	43.9	39.9	35.6	50	45.9	41.1	35.8	185	
190	41.5	38.7	36.9		44.4	40.7	38.1		47.4	42.9	39.3	35.4	47.5	45	40.4	35.6	190	
195	40.4	37.9	36.4		43.2	40	37.5		46.1	42	38.8		45.2	44.1	39.8	35.4	195	
200	39.4	37.3	36		42.2	39.2	37.1		44.9	41.1	38.2		43	43.2	39.3	35.3	200	
205	38.4	36.7			41.2	38.4	36.7		43.6	40.4	37.7		40.8	42.3	38.8		205	
210	37.6	36.1			40.3	37.7	36.2		41.9	39.7	37.2		38.8	40.3	38.3		210	
215	36.4	35.7			39.3	37.2	35.9		39.9	39	36.8		36.8	38.3	37.8		215	
220	27.9				38.3	36.6			38	38.3	36.4		34.9	36.3	37		220	
225					37.6	36.2			36.1	37.1	36.1		33.1	34.4	35.5		225	
230					33.2	35.3			34.4	35.4	35.6		31.4	32.6	33.6		230	
235					26.3				32.7	33.5			29.7	30.9	31.8		235	
240					16.9				30.9	31.7			28.1	29.2	30.1		240	
245									27.5	29.9			26.6	27.6	28.4		245	
250									21.9				25.1	26			250	
255									15				23.6	24.5			255	
260													20.9	22.8			260	
265													16.4	19.2			265	
270													10.9				270	

* adapter · pièce d'adaptateur

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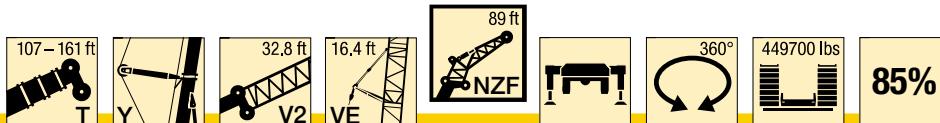
**Lifting capacities
Forces de levage**
TYV2ENZF 77 ft


F	ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
		77 ft				77 ft				77 ft				77 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	30	120.8																30	
	32	118.2				116.7												32	
	34	115.5				114.8												34	
	36	112.8				112.5				111.5								36	
	38	110.1				110.1				109.4				108.1				38	
	40	107.4				107.7				107.3				106.3				40	
	45	101.7	79.4			102				102.2				101.8				45	
	50	96.8	76.3			97.3	76.3			97.1	76			97.2				50	
	55	91.9	73.3			93	73.4			93.3	73.4			93.1	73.1			55	
	60	87.1	70.6	59.5		88.8	70.9	59.7		89.6	70.8			89.8	70.8			60	
	65	83.3	68	57.5		84.6	68.5	58		85.9	68.7	57.9		86.4	68.6	57.7		65	
	70	80	65.5	55.7		81.2	66.2	56.3		82.2	66.6	56.4		83	66.7	56.3		70	
	75	76.7	63.4	53.9	39.2	78.2	64	54.7		79.1	64.5	55		79.8	64.8	55		75	
	80	73.3	61.4	52.2	38.3	75.3	62.1	53.1	38.5	76.5	62.6	53.7	38.6	76.9	62.9	53.8		80	
	85	70.2	59.3	50.8	37.5	72.4	60.3	51.6	37.7	73.8	60.9	52.4	37.9	74.6	61.2	52.6	38	85	
	90	67.7	57.4	49.3	36.7	69.4	58.5	50.3	37	71.2	59.3	51.1	37.2	72.2	59.6	51.5	37.4	90	
	95	65.5	55.6	47.9	36	67.1	56.7	49	36.3	68.6	57.6	49.9	36.5	69.9	58.2	50.3	36.7	95	
	100	63.3	54	46.7	35.2	65	55.1	47.7	35.6	66.4	56	48.6	35.9	67.6	56.7	49.2	36.1	100	
	105	61.2	52.3	45.6	34.6	63	53.6	46.6	35	64.2	54.5	47.4	35.3	65.4	55.2	48.2	35.6	105	
	110	59	50.7	44.4	34	61.1	52.2	45.5	34.4	62.5	53.2	46.4	34.7	63.5	53.7	47.1	35	110	
	115	56.8	49	43.3	33.4	59.2	50.8	44.5	33.8	60.8	52	45.4	34.2	61.8	52.6	46.1	34.5	115	
	120	54.8	47.5	42.2	32.9	57.2	49.3	43.4	33.3	59	50.7	44.4	33.6	60.2	51.5	45.2	34	120	
	125	53	46.2	41.3	32.4	55.3	47.9	42.4	32.8	57.3	49.5	43.5	33.1	58.7	50.5	44.3	33.5	125	
	130	51.4	45	40.4	31.9	53.5	46.6	41.5	32.3	55.6	48.2	42.5	32.7	57.1	49.4	43.5	33	130	
	135	49.9	43.9	39.5	31.4	52	45.5	40.7	31.9	53.9	47	41.6	32.2	55.6	48.3	42.6	32.6	135	
	140	48.3	42.7	38.6	31	50.6	44.4	39.9	31.5	52.1	45.9	40.8	31.8	54	47.2	41.7	32.2	140	
	145	46.7	41.6	37.9	30.6	49.2	43.4	39.2	31.1	50.9	44.9	40.1	31.4	52.5	46.1	40.9	31.8	145	
	150	45.1	40.5	37.2	30.2	47.8	42.3	38.4	30.7	49.7	43.9	39.4	31.1	51	45.2	40.3	31.4	150	
	155	43.7	39.6	36.5	29.9	46.4	41.3	37.7	30.4	48.5	42.9	38.7	30.7	49.9	44.2	39.6	31.1	155	
	160	42.6	38.8	35.8	29.6	45	40.3	37	30.1	47.3	42	38	30.4	48.8	43.3	39	30.7	160	
	165	41.5	37.9	35.1	29.4	43.7	39.4	36.4	29.8	46.1	41	37.3	30.1	47.8	42.5	38.3	30.4	165	
	170	40.4	37.1	34.5	29.1	42.6	38.7	35.9	29.5	44.9	40.1	36.8	29.8	46.7	41.6	37.7	30.1	170	
	175	39.3	36.3	34.1	29	41.6	37.9	35.3	29.2	43.7	39.2	36.2	29.6	45.6	40.7	37.1	29.8	175	
	180	38.2	35.5	33.6	28.8	40.7	37.2	34.7	29	42.5	38.5	35.7	29.3	44.6	39.8	36.5	29.6	180	
	185	37.1	34.9	33.1		39.7	36.4	34.2	28.9	41.6	37.9	35.2	29.1	43.5	39	36	29.4	185	
	190	36.3	34.3	32.7		38.7	35.7	33.8	28.7	40.8	37.2	34.6	28.9	42.4	38.4	35.6	29.2	190	
	195	35.6	33.8	32.3		37.7	35.1	33.4		39.9	36.5	34.2	28.8	41.3	37.8	35.1	29	195	
	200	34.8	33.2	32		36.7	34.5	33		39	35.8	33.8	28.6	40.1	37.1	34.6	28.8	200	
	205	34.1	32.7	31.7		36	34	32.6		38.1	35.2	33.4		39	36.5	34.1	28.7	205	
	210	33.3	32.3	31.5		35.3	33.5	32.3		37.2	34.6	33		37.8	35.9	33.7	28.5	210	
	215	32.7	31.9			34.6	33	32		36.3	34.1	32.7		36.7	35.2	33.4	28.4	215	
	220	32.2	31.5			33.9	32.5	31.8		35.6	33.7	32.3		35.5	34.5	33.1		220	
	225	31.7	31.3			33.2	32.1	31.6		35	33.2	32.1		34	33.6	32.7		225	
	230	27.6				32.6	31.8			34.4	32.7	31.9		32.4	32.6	32.4		230	
	235					32.1	31.5			33.7	32.2	31.7		30.7	31.5	32		235	
	240					31.1	31.2			32	31.9	31.5		29.1	30.4	31.1		240	
	245					25.5				30.5	31.4			27.6	28.8	29.9		245	
	250					17.6				29	29.8			26.1	27.3	28.2		250	
	255									26	28.2			24.7	25.8	26.6		255	
	260									21.1				23.3	24.3			260	
	265									15				22	22.9			265	
	270													19.5	21.4			270	
	275													15.5	18.5			275	
	280													10.6				280	

* adapter · pièce d'adaptateur

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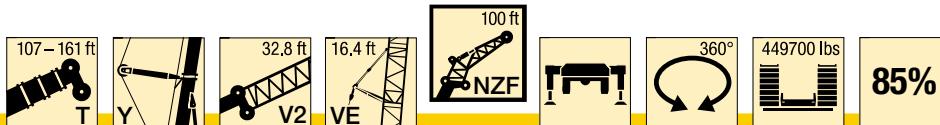
Lifting capacities
Forces de levage
TYV2ENZF 89 ft


ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
	89 ft				89 ft				89 ft				89 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
32	102.7				99.4												32	
34	100.5				97.8												34	
36	98.3				95.8				94.9								36	
38	96				93.8				93.1				92				38	
40	93.8				88.8				88.7				88.1				40	
45	88.4																45	
50	84.3	66.2			84.3	65.9			84.4				84.2				50	
55	80.2	63.5			80.8	63.5			80.7	63.3			80.3	62.8			55	
60	76.1	61.1			77.2	61.2			77.6	61.1			77.4	60.9			60	
65	72.3	58.9	49.8		73.6	59.1	49.8		74.4	59			74.5	58.9			65	
70	69.3	56.7	48.3		70.3	57.2	48.4		71.2	57.3	48.3		71.7	57.1	48		70	
75	66.5	54.6	46.8		67.6	55.2	47		68.3	55.5	47		68.9	55.6	46.9		75	
80	63.8	52.8	45.3		65.2	53.4	45.7		65.9	53.8	45.9		66.2	54	45.8		80	
85	61	51.2	43.8	32.1	62.7	51.8	44.5		63.6	52.1	44.8		64.1	52.4	44.8		85	
90	58.5	49.5	42.6	31.4	60.2	50.3	43.2	31.6	61.4	50.7	43.7	31.7	62.1	50.9	43.8		90	
95	56.5	47.8	41.3	30.7	57.8	48.8	42.1	30.9	59.2	49.3	42.6	31.1	60.1	49.7	42.8	31.2	95	
100	54.6	46.3	40.1	30.1	55.9	47.3	41	30.3	57	48	41.6	30.5	58.2	48.4	41.9	30.6	100	
105	52.8	45	39	29.4	54.1	45.9	39.8	29.8	55.2	46.6	40.6	29.9	56.2	47.2	41	30.1	105	
110	51	43.7	38.1	28.9	52.5	44.7	38.8	29.2	53.4	45.3	39.6	29.4	54.5	45.9	40.1	29.6	110	
115	49.2	42.3	37.1	28.3	50.9	43.5	37.9	28.7	52	44.2	38.6	28.9	52.8	44.7	39.2	29.1	115	
120	47.4	41	36.1	27.8	49.3	42.4	37	28.2	50.6	43.2	37.8	28.4	51.4	43.7	38.4	28.6	120	
125	45.7	39.7	35.2	27.3	47.7	41.2	36.2	27.7	49.1	42.2	37	28	50.1	42.8	37.6	28.2	125	
130	44.2	38.6	34.3	26.9	46.1	40	35.3	27.2	47.7	41.2	36.2	27.5	48.8	41.9	36.9	27.8	130	
135	42.9	37.5	33.6	26.4	44.5	38.9	34.5	26.8	46.2	40.1	35.4	27.1	47.5	41	36.1	27.3	135	
140	41.6	36.6	32.9	26	43.2	37.9	33.7	26.4	44.8	39.1	34.6	26.7	46.2	40.1	35.4	26.9	140	
145	40.3	35.6	32.1	25.6	42.1	37	33.1	26	43.4	38.2	33.8	26.3	44.8	39.2	34.7	26.6	145	
150	39	34.6	31.4	25.3	41	36.1	32.4	25.6	42.3	37.3	33.2	26	43.5	38.3	33.9	26.2	150	
155	37.8	33.7	30.8	24.9	39.9	35.2	31.8	25.3	41.3	36.5	32.6	25.6	42.2	37.4	33.3	25.9	155	
160	36.5	32.9	30.2	24.6	38.7	34.4	31.1	25	40.3	35.6	32	25.3	41.3	36.6	32.7	25.6	160	
165	35.4	32.1	29.7	24.4	37.6	33.5	30.5	24.7	39.3	34.8	31.4	25	40.4	35.9	32.2	25.3	165	
170	34.6	31.4	29.1	24.1	36.5	32.7	30	24.4	38.3	34	30.8	24.7	39.5	35.2	31.6	25	170	
175	33.7	30.7	28.6	23.8	35.4	32	29.5	24.2	37.3	33.3	30.3	24.4	38.7	34.4	31.1	24.7	175	
180	32.8	30	28.1	23.6	34.6	31.4	29	24	36.3	32.5	29.8	24.2	37.8	33.7	30.5	24.5	180	
185	31.9	29.3	27.6	23.5	33.8	30.7	28.5	23.7	35.3	31.8	29.3	24	36.9	33	30	24.2	185	
190	31	28.7	27.3	23.4	33	30.1	28.1	23.5	34.5	31.3	28.9	23.8	36.1	32.3	29.6	24	190	
195	30.1	28.2	26.9		32.2	29.5	27.6	23.4	33.8	30.7	28.4	23.6	35.2	31.7	29.2	23.8	195	
200	29.4	27.7	26.5		31.3	28.9	27.3	23.3	33	30.1	28	23.4	34.4	31.1	28.7	23.7	200	
205	28.8	27.2	26.1		30.5	28.3	26.9		32.3	29.5	27.6	23.3	33.7	30.6	28.3	23.5	205	
210	28.2	26.8	25.9		29.8	27.9	26.6		31.5	28.9	27.2	23.2	33	30.1	27.9	23.3	210	
215	27.6	26.3	25.7		29.1	27.4	26.2		30.8	28.4	26.9	23.1	32.4	29.5	27.5	23.2	215	
220	27	25.9	25.4		28.5	27	25.9		30.1	27.9	26.6		31.7	29	27.2	23.1	220	
225	26.4	25.6	25.3		28	26.5	25.7		29.4	27.5	26.3		31	28.5	26.9	23	225	
230	26	25.3			27.4	26.1	25.5		28.8	27.1	26		30.3	28	26.6		230	
235	25.6	25.1			26.8	25.8	25.3		28.3	26.7	25.7		29.6	27.6	26.3		235	
240	24.8				26.3	25.5	25.2		27.7	26.3	25.6		28.8	27.2	26		240	
245	17.2				25.9	25.3			27.3	25.9	25.4		27.6	26.9	25.8		245	
250					25.5	25			26.7	25.6	25.2		26.1	26.5	25.6		250	
255					23.6				26.2	25.4	25.1		24.7	25.9	25.4		255	
260					17.1				25.7	25.2			23.4	24.6	25.2		260	
265									23.7	24.9			22.1	23.3	24.2		265	
270									19.2	22.9			20.8	21.9	22.8		270	
275									13.9				19.6	20.6			275	
280													17.4	19.3			280	
285													13.7	16.9			285	
290													9.4				290	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2ENZF 100 ft


F	ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
		100 ft				100 ft				100 ft				100 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	34	89.5																34	
	36	87.6				86.8												36	
	38	85.6				85.1				83.8								38	
	40	83.7				83.4				82.5				81				40	
	45	78.8				79.1				78.8				78.1				45	
	50	74.9				74.9				75				74.7				50	
	55	71.4	56.8			71.7	56.6			71.5				71.4				55	
	60	67.9	54.6			68.6	54.6			68.7	54.4			68.6	54			60	
	65	64.5	52.5			65.6	52.5			66	52.6			66.1	52.4			65	
	70	61.5	50.6	42.2		62.5	50.8	42.1		63.3	50.8			63.6	50.7			70	
	75	59.2	48.8	40.9		59.9	49.1	40.9		60.6	49.3	40.7		61.2	49.2	40.5		75	
	80	56.8	47	39.7		57.8	47.5	39.8		58.2	47.8	39.7		58.8	47.8	39.6		80	
	85	54.5	45.5	38.5		55.7	45.9	38.7		56.3	46.2	38.7		56.6	46.5	38.6		85	
	90	52.1	44.1	37.3		53.6	44.6	37.7		54.4	44.8	37.8		54.9	45.1	37.7		90	
	95	50.1	42.6	36.2	27.6	51.5	43.3	36.7	27.8	52.5	43.6	36.9		53.2	43.8	36.9		95	
	100	48.4	41.2	35.1	27	49.5	42	35.7	27.2	50.6	42.4	36	27.3	51.5	42.8	36.1	27.4	100	
	105	46.8	39.9	34.1	26.3	47.9	40.7	34.7	26.6	48.8	41.3	35.2	26.7	49.8	41.7	35.3	26.8	105	
	110	45.3	38.8	33	25.8	46.4	39.5	33.8	26	47.3	40.1	34.3	26.2	48.1	40.6	34.6	26.4	110	
	115	43.7	37.7	32.2	25.2	45	38.5	32.8	25.5	45.8	38.9	33.5	25.7	46.7	39.5	33.8	25.9	115	
	120	42.1	36.6	31.4	24.7	43.6	37.5	32.1	25	44.5	38	32.6	25.3	45.2	38.5	33.1	25.4	120	
	125	40.5	35.4	30.6	24.3	42.2	36.5	31.3	24.6	43.3	37.2	31.9	24.8	44.1	37.6	32.4	25	125	
	130	39.1	34.3	29.7	23.8	40.9	35.6	30.6	24.1	42.1	36.3	31.2	24.4	42.9	36.8	31.7	24.6	130	
	135	37.8	33.3	29	23.3	39.5	34.6	29.8	23.7	40.8	35.4	30.5	24	41.8	36	31.1	24.2	135	
	140	36.7	32.4	28.3	22.9	38.1	33.6	29.1	23.3	39.6	34.6	29.9	23.6	40.7	35.2	30.5	23.8	140	
	145	35.6	31.5	27.6	22.5	37	32.7	28.4	22.9	38.3	33.7	29.2	23.2	39.5	34.4	29.8	23.5	145	
	150	34.5	30.7	27	22.1	36	31.9	27.8	22.5	37.1	32.9	28.5	22.8	38.4	33.6	29.2	23.1	150	
	155	33.4	29.8	26.4	21.8	35.1	31.1	27.2	22.2	36.1	32.1	27.9	22.5	37.3	32.9	28.6	22.8	155	
	160	32.3	29	25.8	21.5	34.1	30.3	26.7	21.9	35.3	31.4	27.4	22.2	36.2	32.1	27.9	22.5	160	
	165	31.2	28.2	25.3	21.2	33.2	29.5	26.1	21.6	34.4	30.7	26.9	21.9	35.3	31.4	27.4	22.2	165	
	170	30.3	27.5	24.8	20.9	32.2	28.8	25.6	21.3	33.6	30	26.3	21.6	34.5	30.8	27	21.9	170	
	175	29.5	26.9	24.3	20.6	31.3	28	25.1	21	32.8	29.3	25.8	21.3	33.8	30.1	26.5	21.6	175	
	180	28.7	26.3	23.9	20.4	30.4	27.3	24.6	20.7	31.9	28.6	25.3	21.1	33	29.5	26	21.3	180	
	185	27.9	25.7	23.4	20.2	29.6	26.8	24.2	20.5	31.1	27.9	24.9	20.8	32.3	28.9	25.5	21.1	185	
	190	27.1	25.1	23	20	28.9	26.2	23.8	20.3	30.3	27.2	24.5	20.6	31.5	28.3	25.1	20.8	190	
	195	26.3	24.4	22.6	19.8	28.2	25.7	23.4	20.1	29.5	26.7	24.1	20.4	30.8	27.7	24.6	20.6	195	
	200	25.5	23.9	22.3	19.7	27.5	25.1	23	19.9	28.8	26.2	23.7	20.2	30.1	27.1	24.3	20.4	200	
	205	24.8	23.5	21.9		26.7	24.6	22.6	19.8	28.2	25.7	23.3	20	29.3	26.6	23.9	20.2	205	
	210	24.3	23.1	21.6		26	24.1	22.3	19.6	27.6	25.2	22.9	19.8	28.7	26.1	23.5	20.1	210	
	215	23.7	22.6	21.3		25.3	23.6	22	19.5	26.9	24.6	22.6	19.7	28.1	25.6	23.2	19.9	215	
	220	23.2	22.2	21.1		24.6	23.2	21.7		26.3	24.1	22.3	19.6	27.5	25.2	22.8	19.7	220	
	225	22.7	21.8	20.9		24.1	22.8	21.4		25.6	23.7	22	19.5	26.9	24.7	22.5	19.6	225	
	230	22.1	21.5	20.7		23.6	22.4	21.2		25	23.3	21.7		26.4	24.2	22.2	19.5	230	
	235	21.6	21.2	20.5		23.1	22	21		24.4	22.9	21.5		25.8	23.8	22	19.4	235	
	240	21.2	20.9			22.6	21.6	20.8		23.9	22.5	21.2		25.2	23.3	21.7		240	
	245	20.9	20.6			22.1	21.3	20.6		23.4	22.2	21		24.6	23	21.5		245	
	250	20.5				21.7	21.1	20.5		23	21.8	20.8		24	22.7	21.2		250	
	255	17.7				21.3	20.9			22.6	21.5	20.6		23.4	22.3	21		255	
	260					21	20.6			22.1	21.2	20.5		22.7	22	20.8		260	
	265					20.6	20.5			21.7	21	20.4		22	21.7	20.6		265	
	270					16.9				21.3	20.8			21.3	21.3	20.5		270	
	275									20.8	20.6			20.3	20.8	20.3		275	
	280									18.1	20.3			19.2	20.1	20.2		280	
	285									13.3				18	19.1			285	
	290													16	17.9			290	
	295													12.7	16			295	
	300													8.7				300	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2ENZF 112 ft


ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
	112 ft				112 ft				112 ft				112 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
34	78.7																34	
36	77.5																36	
38	75.8				75.1												38	
40	74.2				73.7				72.8								40	
45	70				70.1				69.6				68.7				45	
50	66.2				66.4				66.4				65.9				50	
55	63.2	50.3			63.3				63.2				63				55	
60	60.3	48.3			60.7	48.2			60.6	47.7			60.3				60	
65	57.4	46.3			58	46.5			58.3	46.3			58.1	45.9			65	
70	54.6	44.7			55.4	44.8			55.9	44.7			56	44.5			70	
75	52.3	43.1	36		52.9	43.3	35.7		53.6	43.2			53.9	43.1			75	
80	50.3	41.5	34.8		50.8	41.9	34.8		51.3	41.9	34.7		51.8	41.8	34.4		80	
85	48.3	40	33.8		49	40.4	33.8		49.4	40.6	33.7		49.7	40.7	33.6		85	
90	46.3	38.8	32.8		47.2	39.1	32.9		47.8	39.4	32.9		48	39.5	32.8		90	
95	44.3	37.5	31.9		45.5	37.9	32.1		46.2	38.1	32.1		46.6	38.3	32		95	
100	42.7	36.3	30.9	23.5	43.7	36.8	31.2		44.6	37.1	31.3		45.1	37.2	31.3		100	
105	41.1	35.1	30	22.9	42.1	35.7	30.4	23.1	43	36.1	30.5		43.7	36.3	30.6		105	
110	39.8	34	29.1	22.4	40.6	34.6	29.6	22.6	41.5	35.1	29.8	22.7	42.2	35.4	29.9	22.7	110	
115	38.5	33	28.2	21.9	39.4	33.5	28.8	22.1	40.2	34.1	29.1	22.2	40.8	34.4	29.2	22.3	115	
120	37.2	32.1	27.4	21.4	38.2	32.7	28	21.6	38.9	33.1	28.4	21.7	39.6	33.5	28.6	21.8	120	
125	35.9	31.2	26.7	20.9	37.1	31.9	27.3	21.1	37.8	32.3	27.7	21.3	38.3	32.6	28	21.4	125	
130	34.6	30.2	26	20.5	35.9	31	26.6	20.7	36.8	31.5	27.1	20.9	37.4	31.8	27.4	21.1	130	
135	33.3	29.3	25.3	20.1	34.7	30.2	26	20.3	35.7	30.8	26.5	20.5	36.4	31.1	26.8	20.7	135	
140	32.1	28.4	24.6	19.7	33.5	29.4	25.3	19.9	34.7	30.1	25.9	20.2	35.4	30.4	26.2	20.3	140	
145	31.2	27.6	23.9	19.3	32.4	28.6	24.7	19.6	33.6	29.3	25.3	19.8	34.5	29.8	25.7	20	145	
150	30.3	26.8	23.4	18.9	31.3	27.8	24	19.2	32.5	28.6	24.7	19.5	33.5	29.1	25.2	19.7	150	
155	29.4	26.1	22.8	18.6	30.5	27	23.5	18.9	31.5	27.9	24.1	19.1	32.5	28.4	24.6	19.4	155	
160	28.5	25.3	22.3	18.3	29.8	26.4	23	18.6	30.6	27.2	23.5	18.8	31.6	27.7	24.1	19.1	160	
165	27.6	24.6	21.8	18	29	25.7	22.5	18.3	29.9	26.5	23	18.5	30.6	27.1	23.5	18.8	165	
170	26.7	23.9	21.3	17.7	28.2	25.1	22	18	29.1	25.9	22.6	18.2	29.8	26.5	23.1	18.5	170	
175	25.8	23.2	20.8	17.4	27.4	24.4	21.5	17.7	28.4	25.3	22.1	18	29.1	25.9	22.6	18.2	175	
180	25	22.7	20.4	17.1	26.6	23.8	21	17.5	27.7	24.7	21.7	17.7	28.5	25.4	22.2	18	180	
185	24.4	22.2	20	16.9	25.8	23.1	20.6	17.2	27	24.1	21.2	17.5	27.9	24.9	21.8	17.7	185	
190	23.7	21.6	19.6	16.7	25	22.6	20.2	17	26.3	23.5	20.8	17.2	27.2	24.3	21.4	17.5	190	
195	23.1	21.1	19.2	16.5	24.4	22.1	19.9	16.8	25.6	23	20.4	17	26.6	23.8	21	17.3	195	
200	22.4	20.6	18.8	16.3	23.8	21.6	19.5	16.6	24.9	22.4	20.1	16.8	26	23.3	20.6	17.1	200	
205	21.8	20.1	18.5	16.2	23.2	21.1	19.1	16.4	24.3	22	19.7	16.7	25.3	22.8	20.2	16.9	205	
210	21.1	19.6	18.2	16	22.6	20.7	18.8	16.2	23.8	21.6	19.4	16.5	24.7	22.3	19.9	16.7	210	
215	20.5	19.2	17.9	15.9	22	20.2	18.4	16.1	23.2	21.1	19.1	16.3	24.1	21.9	19.6	16.5	215	
220	20	18.9	17.6		21.4	19.7	18.2	16	22.7	20.7	18.7	16.2	23.6	21.5	19.3	16.4	220	
225	19.6	18.5	17.3		20.8	19.3	17.9	15.9	22.1	20.3	18.4	16	23.1	21.1	19	16.2	225	
230	19.1	18.1	17.2		20.2	19	17.7		21.6	19.8	18.2	15.9	22.6	20.7	18.7	16.1	230	
235	18.7	17.8	17		19.8	18.7	17.4		21	19.4	17.9	15.8	22.1	20.3	18.4	16	235	
240	18.2	17.5	16.8		19.4	18.3	17.2		20.5	19.1	17.7		21.6	19.9	18.1	15.9	240	
245	17.8	17.2	16.7		19	18	17		20	18.8	17.5		21.1	19.5	17.9	15.8	245	
250	17.4	17			18.5	17.7	16.9		19.6	18.4	17.2		20.6	19.1	17.7		250	
255	17.1	16.8			18.1	17.4	16.7		19.2	18.1	17		20.1	18.8	17.5		255	
260	16.8	16.6			17.7	17.2	16.6		18.8	17.8	16.9		19.7	18.6	17.3		260	
265	16.4				17.4	17			18.4	17.5	16.7		19.3	18.3	17.1		265	
270					17.1	16.7			18	17.3	16.6		19	18	16.9		270	
275					16.8	16.6			17.7	17.1	16.5		18.6	17.7	16.7		275	
280					15.5				17.3	16.9			18.3	17.4	16.6		280	
285					9				17	16.7			17.9	17.2	16.5		285	
290									15.8	16.5			16.9	17	16.4		290	
295									12				15.9	16.6			295	
300													14	15.8			300	
305													11	14.2			305	
310													11.1				310	

* adapter · pièce d'adaptateur

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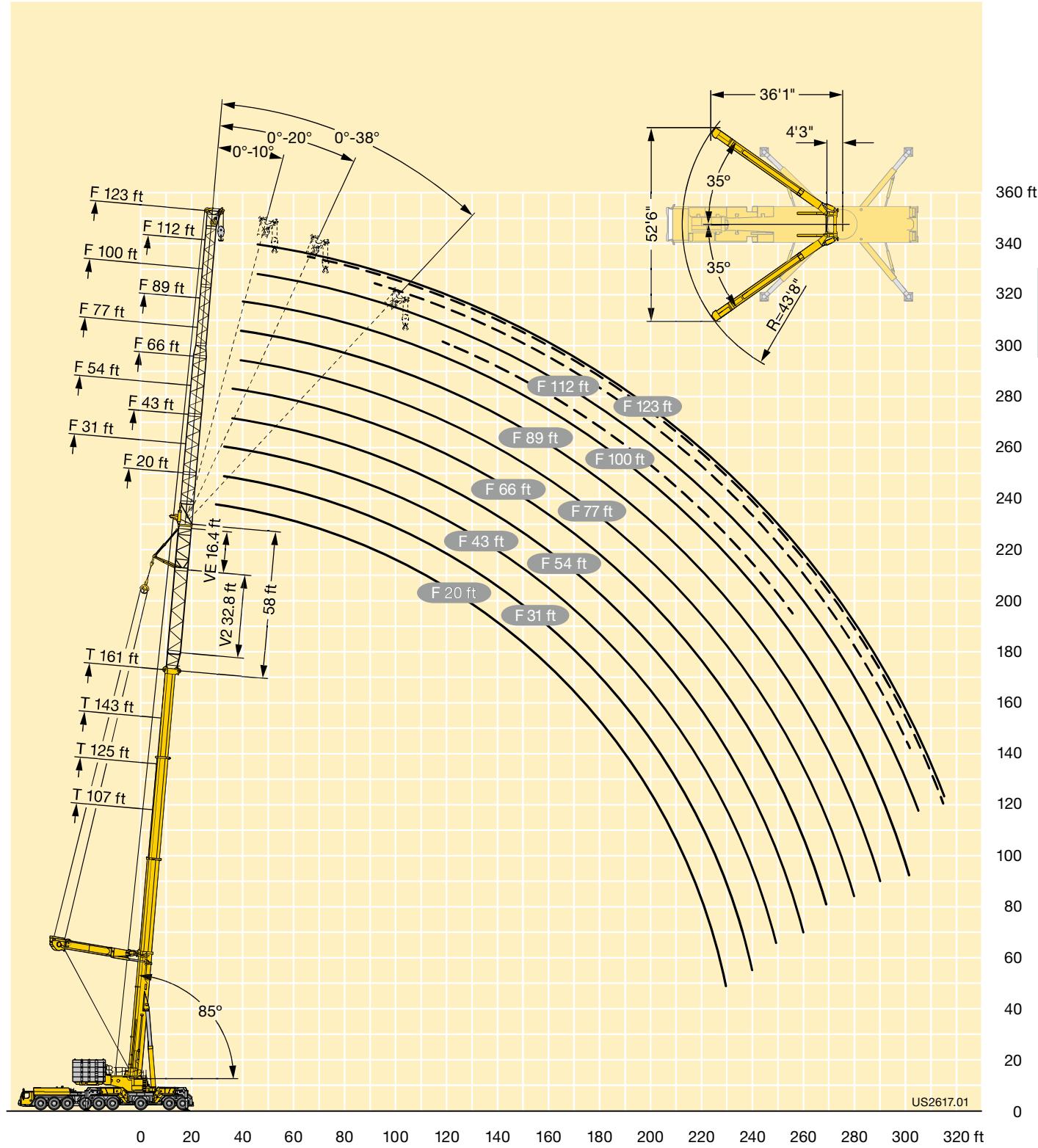
**Lifting capacities
Forces de levage**
TYV2ENZF 123 ft


F	ft	107 ft + 58 ft*				125 ft + 58 ft*				143 ft + 58 ft*				161 ft + 58 ft*				ft	
		123 ft				123 ft				123 ft				123 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	36	68.3								53.6				54.3				36	
	38	67.2								51.6	40.9			52.3				38	
	40	65.8				65.2				61.5				61.6				40	
	45	62.4				62.2				58.8				59.2				45	
	50	59				59.1				56.1				56.7				50	
	55	56.3				56.1				53.6				54.3				55	
	60	53.8	43.1			53.8				49.6	39.6			50.4	39.3			60	
	65	51.3	41.4			51.6	41.3			47.6	38.3			48.5	38.1			65	
	70	48.8	39.7			49.4	39.8			45.7	37			46.6	36.9			70	
	75	46.5	38.3			47.2	38.3			43.7	35.9	30.8		44.7	35.9			75	
	80	44.7	37	31.2		45.1	37.1			42.3	34.8	30		43.1	34.9	29.8		80	
	85	43	35.7	30.3		43.5	35.9	30.3		40.9	33.7	29.2		41.8	33.9	29.1		85	
	90	41.3	34.4	29.4		42	34.7	29.4		39.5	32.6	28.4		40.5	32.9	28.4		90	
	95	39.6	33.3	28.6		40.4	33.6	28.6		38.1	31.8	27.7		39.2	31.9	27.8		95	
	100	37.9	32.3	27.7		38.9	32.6	27.8		36.8	30.9	27		37.8	31.1	27.1		100	
	105	36.6	31.2	26.9		37.4	31.6	27		34.3	29.2	25.8	19	35.3	29.5	25.9	19.1	105	
	110	35.3	30.2	26.1	19.7	36.1	30.7	26.4		32.3	26.4	19.4	36.5	30.3	26.5			110	
	115	34.2	29.2	25.4	19.3	34.8	29.8	25.7	19.4	30.1	26.4	19.4	36.5	30.3	26.5			115	
	120	33.1	28.4	24.6	18.8	33.8	28.8	25	18.9	29.2	25.8	19	35.3	29.5	25.9	19.1		120	
	125	31.9	27.6	23.9	18.4	32.8	28.1	24.4	18.5	33.3	28.4	25.2	18.6	34.3	28.7	25.3	18.7	125	
	130	30.8	26.8	23.2	17.9	31.8	27.4	23.7	18.1	32.3	27.6	24.6	18.2	33.3	27.9	24.8	18.3	130	
	135	29.7	26	22.6	17.5	30.8	26.7	23.1	17.7	31.4	27	24	17.9	32.4	27.2	24.3	18	135	
	140	28.6	25.3	22	17.1	29.8	26	22.5	17.3	30.5	26.3	23.5	17.5	31.5	26.6	23.7	17.7	140	
	145	27.5	24.5	21.3	16.8	28.8	25.2	22	17	29.6	25.7	22.9	17.2	30.7	26	23.2	17.3	145	
	150	26.8	23.7	20.7	16.4	27.8	24.5	21.4	16.7	28.7	25.1	22.4	16.8	29.8	25.4	22.7	17	150	
	155	26	23.1	20.2	16.1	26.8	23.9	20.8	16.3	27.8	24.5	21.9	16.5	29	24.8	22.3	16.7	155	
	160	25.2	22.4	19.7	15.8	26.1	23.2	20.3	16	26.9	23.8	21.4	16.2	28.1	24.2	21.8	16.4	160	
	165	24.5	21.8	19.2	15.5	25.5	22.6	19.8	15.7	26.1	23.2	20.8	15.9	27.2	23.7	21.3	16.2	165	
	170	23.7	21.2	18.7	15.2	24.8	22	19.4	15.5	25.5	22.6	20.3	15.7	26.4	23.1	20.9	15.9	170	
	175	23	20.5	18.2	14.9	24.1	21.5	18.9	15.2	24.8	22.1	19.9	15.4	25.7	22.6	20.4	15.6	175	
	180	22.2	19.9	17.8	14.7	23.4	20.9	18.5	15	24.2	21.6	19.5	15.2	25.1	22	20	15.4	180	
	185	21.4	19.4	17.4	14.5	22.8	20.3	18	14.7	23.6	21.1	19.1	14.9	24.5	21.6	19.6	15.2	185	
	190	20.9	18.9	17.1	14.2	22.1	19.8	17.6	14.5	23	20.6	18.7	14.7	24	21.2	19.2	14.9	190	
	195	20.3	18.4	16.7	14	21.4	19.2	17.3	14.3	22.4	20.1	18.3	14.5	23.4	20.7	18.9	14.7	195	
	200	19.7	18	16.3	13.8	20.9	18.8	16.9	14.1	21.8	19.6	17.9	14.3	22.8	20.3	18.5	14.5	200	
	205	19.2	17.6	16	13.6	20.3	18.4	16.6	13.9	21.2	19.1	17.6	14.1	22.2	19.8	18.1	14.3	205	
	210	18.6	17.1	15.7	13.5	19.8	18	16.3	13.7	20.7	18.7	17.2	13.9	21.6	19.4	17.7	14.2	210	
	215	18.1	16.7	15.4	13.3	19.3	17.6	15.9	13.6	20.2	18.3	16.9	13.8	21.1	19	17.4	14	215	
	220	17.5	16.3	15.1	13.2	18.8	17.2	15.6	13.4	19.7	17.9	16.6	13.6	20.5	18.6	17.1	13.8	220	
	225	17	15.9	14.8	13.1	18.3	16.7	15.4	13.3	19.2	17.6	16.3	13.5	20.1	18.2	16.9	13.7	225	
	230	16.6	15.6	14.6		17.7	16.4	15.1	13.2	18.8	17.2	16	13.3	19.7	17.9	16.6	13.5	230	
	235	16.2	15.3	14.4		17.2	16	14.9	13.1	18.3	16.8	15.8	13.2	19.3	17.5	16.3	13.4	235	
	240	15.8	15	14.2		16.8	15.7	14.7		17.9	16.4	15.5	13.1	18.8	17.2	16	13.2	240	
	245	15.4	14.7	14		16.4	15.4	14.4		17.4	16.1	15.3	13	18.4	16.8	15.7	13.2	245	
	250	15	14.4	13.8		16	15.1	14.2		16.9	15.8	15.1		18	16.5	15.5	13.1	250	
	255	14.7	14.2	13.7		15.7	14.8	14		16.5	15.5	14.8		17.6	16.1	15.3	13	255	
	260	14.4	14			15.3	14.5	13.9		16.2	15.3	14.6		17.2	15.8	15.1	12.9	260	
	265	14.1	13.8			14.9	14.3	13.7		15.8	15	14.4		16.8	15.5	14.9		265	
	270	13.8	13.6			14.6	14.1	13.6		15.5	14.7	14.3		16.4	15.3	14.7		270	
	275	13.6				14.3	13.9			15.2	14.5	14.1		16.1	15	14.5		275	
	280					14.1	13.7			14.8	14.2	14		15.8	14.8	14.3		280	
	285					13.8	13.6			14.5	14.1	13.9		15.5	14.6	14.2		285	
	290					13.5				14.2	13.9			15.2	14.3	14.1		290	
	295					9.3				14	13.7			14.8	14.1	13.9		295	
	300									13.6	13.6			14.5	13.9	13.8		300	
	305									11.2				14.2	13.8			305	
	310													12.8	13.6			310	
	315													10.1	13			315	
	320													10.6				320	

* adapter · pièce d'adaptateur

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**Lifting heights
Hauteurs de levage**
TYV2ENZF


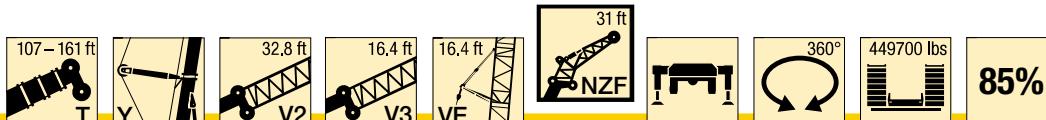
**Lifting capacities
Forces de levage**
TYV23ENZF 20 ft


G	ft	107 ft + 74 ft*				125 ft + 74 ft*				143 ft + 74 ft*				161 ft + 74 ft*				ft	
		20 ft				20 ft				20 ft				20 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	24	236.2																24	
	26	234.9																26	
	28	232.9	205			232.5												28	
	30	231	202.8	160.5		230.8	204.2			228.8								30	
	32	229.1	200.2	158.7		229	202.2			227.6	203.2			219.4				32	
	34	227.1	197.3	157		227.3	200.2	158.9		226.2	201.5			220.8				34	
	36	225.4	194.4	155.3	120.2	225.6	198	157.3		224.7	199.7	159		220	199.7			36	
	38	223.7	191.5	153.5	119.2	223.9	195.4	155.6	120.1	223.2	197.9	157.5		219.1	198.2	159		38	
	40	222	188.5	151.7	118	222.3	192.7	154	118.9	221.7	196.1	156	119.9	218.3	196.7	157.6		40	
	45	217.8	181.3	147.4	115	218.5	186.1	150	116.2	217.9	190.1	152.3	117.3	216.2	192.6	154.2	117.8	45	
	50	213.5	174	143.1	112.3	214.7	179.4	146	113.6	214.2	184	148.6	114.9	206.7	187.9	150.8	115.5	50	
	55	207.9	166.8	139.7	109.8	210.9	172.8	142.3	111.3	210.5	177.8	144.9	112.6	194	182.2	147.3	113.4	55	
	60	202.1	161.3	136.4	107.4	206.1	166.1	139.2	109	206.1	171.7	141.7	110.5	181.3	176.5	143.9	111.3	60	
	65	196	156.7	133	105.3	200.9	161.2	136.2	106.9	198	165.5	138.8	108.4	168.8	170.8	141.1	109.4	65	
	70	188.9	152.1	129.7	103	195.5	157	133.1	105	188.3	161.2	136	106.5	158.4	162.9	138.5	107.5	70	
	75	181.3	147.6	126.3	101.1	186.2	152.9	130	103	178.5	157.3	133.2	104.7	149.7	153.5	135.9	105.8	75	
	80	173.7	143.1	124.1	99.3	173.8	148.7	127	101.2	166.7	153.5	130.3	102.9	140.9	144	133.2	104.2	80	
	85	165.1	139.5	122.1	97.5	162	144.5	124.6	99.6	155.8	149.6	127.5	101.2	132.1	134.5	130.6	102.6	85	
	90	154.8	135.9	119.9	95.9	151.3	140.9	122.8	98.1	145.5	144.4	125.1	99.8	123.8	126.4	126.9	101	90	
	95	144.8	132.3	116.9	94.5	141.9	137.6	120.8	96.6	136.5	137.9	123.4	98.3	116.7	120.1	120.8	99.7	95	
	100	135.8	128.7	113.7	93.1	133.2	134.2	118.1	95.2	128.1	129.3	121.2	96.9	110.6	113.8	114.5	98.4	100	
	105	127.5	125.1	110.5	91.8	125.1	126.4	115.3	94	120.2	121.7	118.6	95.7	104.9	107.5	108.2	97.1	105	
	110	119.9	120.8	107.8	90.7	117.7	119	112.5	92.8	113.3	114.5	115.2	94.5	99.3	101.2	101.9	95.2	110	
	115	112.8	113.9	105.4	89.6	111	112.1	109.6	91.6	106.8	107.8	109	93.4	93.7	94.9	96.8	93	115	
	120	106.3	107.3	103.1	88.6	104.7	105.7	105.8	90.7	100.6	101.8	102.8	92.3	88.1	89.6	91.9	89.8	120	
	125	100.3	101.3	100.4	87.7	98.8	99.8	100.8	89.7	95	96.1	97	91.2	82.5	84.6	86.9	86.5	125	
	130	94.6	95.5	96.3	87	93.4	94.4	95.2	88.8	89.8	90.7	91.6	90	77.5	80.3	81.9	83.2	130	
	135	89.1	90	90.7	86.3	88.3	89.3	90	88.1	84.9	85.8	86.7	87.9	73.8	76.1	77.1	79.5	135	
	140	84	84.8	85.4		83.6	84.5	85.2	85.6	80.2	81.2	81.9	83.1	70.2	71.8	72.8	75.5	140	
	145	79.2	79.9	80.5		79.2	80	80.6	81.6	76	76.8	77.5	78.6	66.5	67.6	69.1	71.4	145	
	150	74.7	75.4	75.9		75.1	75.8	76.4		71.9	72.7	73.4	74.4	62.8	63.6	65.5	67.3	150	
	155	70.5	71.1	71.6		71.1	71.8	72.4		68.1	68.8	69.5	70.4	59.1	60.1	61.9	63.5	155	
	160	66.6	67.1	67.5		67.3	67.9	68.4		64.5	65.2	65.9		55.5	57.2	58.4	60	160	
	165	62.9	63.4	63.7		63.6	64.2	64.6		61.1	61.8	62.4		52.2	54.2	55	56.7	165	
	170	59.4	59.8	60.1		60.2	60.7	61.1		57.9	58.6	59.1		49.6	51.2	51.9	53.4	170	
	175	56.1	56.5			56.9	57.4	57.7		54.9	55.5	56		47.1	48.3	49.2		175	
	180	53	53.3			53.8	54.2	54.5		52	52.6	53		44.6	45.3	46.5		180	
	185	47.7	48.9			50.9	51.3	51.5		49.3	49.8	50.2		42.1	42.7	43.9		185	
	190	37.1				48.1	48.5			46.7	47.2	47.5		39.6	40.5	41.2		190	
	195					45.5	45.8			44.1	44.5	44.8		37.1	38.3	38.7		195	
	200					42	42.9			41.6	42	42.3		34.9	36	36.5		200	
	205					34.3				39.3	39.6			33	33.8	34.4		205	
	210					23.6				37	37.3			31.1	31.7	32.3		210	
	215									34.8	35.2			29.2	29.7	30.2		215	
	220									28.7				27.4	28			220	
	225									20.8				25.6	26.2			225	
	230													23.9	24.4			230	
	235													21.9	22.5			235	
	240													15.6				240	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV23ENZF 31 ft


ft	107 ft + 74 ft*				125 ft + 74 ft*				143 ft + 74 ft*				161 ft + 74 ft*				ft	
	31 ft				31 ft				31 ft				31 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
26	231.3																26	
28	229.6				227.3												28	
30	227.8				227.1												30	
32	226	195.2			225.5				222.9								32	
34	224.2	191.1			223.9	190.1			221.5				209.5				34	
36	222.4	187	143.5		222.3	186.9			220.2	185.4			208.7				36	
38	220.5	182.9	141.4		220.7	183.5	141.1		218.9	183			207.3				38	
40	218.6	178.9	139.3		219.1	180	139.2		217.7	179.9			205.9	178.3			40	
45	213.6	170.7	134.1	94.5	214	171.5	134.5		214.2	172.2	134.7		202.5	171.7	133.9		45	
50	208.7	162.7	129.2	92.2	208.6	164.6	130.1	92.9	206.7	165.4	130.5	93.4	196.8	165.1	130.1		50	
55	202.6	154.9	124.2	90	203.2	157.6	126.1	90.9	199.4	159.2	126.8	91.6	187.3	159.4	126.4	91.9	55	
60	194	148.8	120	88.1	197.2	151	122	89.1	191.9	153.1	123.2	89.9	177.2	154.1	123.1	90.2	60	
65	185	142.8	115.9	86.3	189.5	145.5	118.3	87.3	184	147.3	119.7	88.2	167	148.8	119.8	88.6	65	
70	175.9	136.8	111.8	84.6	181.4	140.2	114.7	85.5	175.7	142.4	116.6	86.6	157.1	143.6	116.7	87	70	
75	167.2	131.3	108.4	83	173.2	135	111.1	84	167.5	137.7	113.5	85	148.8	139	114	85.6	75	
80	160.2	126.8	105.2	81.4	165.1	130	107.9	82.6	159.2	133.1	110.5	83.6	140.7	134.5	111.3	84.3	80	
85	153.6	122.4	102.1	80	157.9	125.9	105.1	81.2	150.8	128.4	107.6	82.3	132.7	130	108.7	83	85	
90	147.2	117.9	98.9	78.7	149.8	122.1	102.3	79.8	142.7	124.2	105	81	124.6	125.6	106.2	81.8	90	
95	140.8	113.5	96.1	77.3	140.3	118.3	99.4	78.7	134.7	120.9	102.4	79.7	117.3	120.8	103.9	80.6	95	
100	134.3	109.3	93.7	76.2	132	114.5	96.7	77.5	126.7	117.6	99.8	78.6	110.7	115.2	101.7	79.4	100	
105	126.8	105.8	91.3	75.1	124.1	110.7	94.2	76.4	119.2	114.3	97.3	77.6	105.2	109.5	99.4	78.4	105	
110	119.4	102.6	89	74.1	116.9	107.2	92.1	75.4	112.1	111	94.7	76.5	100	103.7	97.2	77.4	110	
115	112.5	99.4	86.7	73.1	110.3	104.1	90	74.4	105.9	107.5	92.5	75.6	94.8	98	95	76.4	115	
120	106.1	96.2	84.8	72.3	104.2	101.2	87.9	73.5	99.9	101.6	90.6	74.7	89.6	92.3	92.2	75.5	120	
125	100.2	93.1	83	71.5	98.4	98.3	85.7	72.6	94.3	96	88.8	73.8	84.4	87	88.1	74.7	125	
130	94.7	90.5	81.3	70.7	93.1	94.4	84	71.9	89.3	90.7	86.9	73	79.2	82.1	83.9	73.9	130	
135	89.6	88.3	79.5	70.1	88.1	89.5	82.4	71.2	84.5	85.9	84.8	72.2	74.3	78.1	79.8	73.2	135	
140	84.9	85.7	77.9	69.5	83.5	84.8	80.9	70.5	79.9	81.4	82.4	71.5	70.9	74.2	75.7	72.3	140	
145	80.3	81.6	76.5	69	79.2	80.4	79.2	69.9	75.7	77	78.3	70.8	67.5	70.2	71.8	70.5	145	
150	76	77.1	75.2		75.1	76.3	77.3	69.4	71.8	73	74.2	70.2	64.2	66.3	68	68.1	150	
155	71.8	72.8	73.5		71.2	72.4	73.3	68.9	68	69.2	70.3	69.6	60.8	62.4	64.7	65.3	155	
160	67.9	68.8	69.6		67.6	68.7	69.6		64.5	65.6	66.6	68	57.4	58.8	61.4	62.6	160	
165	64.2	65	65.7		64.2	65.2	66.1		61.2	62.2	63.2	64.6	54	55.8	58.1	59.7	165	
170	60.7	61.5	62.1		61	61.9	62.7		58	59	60	61.1	50.8	53.1	54.7	56.6	170	
175	57.4	58.2	58.7		57.9	58.7	59.4		55.1	56	56.9		48.1	50.4	51.6	53.5	175	
180	54.3	55	55.5		54.8	55.6	56.2		52.2	53.2	53.9		45.8	47.6	48.7	50.4	180	
185	51.4	52			51.9	52.6	53.2		49.5	50.4	51.1		43.4	44.9	46.2		185	
190	48.6	49.2			49.1	49.8	50.3		47	47.8	48.4		41.1	42.2	43.7		190	
195	44.3	45.9			46.5	47.2	47.6		44.5	45.3	45.9		38.7	39.7	41.3		195	
200	35.4				44.1	44.6			42.2	42.9	43.5		36.4	37.6	38.8		200	
205	22.8				41.7	42.2			40	40.7	41.2		34.1	35.6	36.4		205	
210					38.8	39.9			37.9	38.5	38.9		32	33.5	34.4		210	
215					32.1				35.8	36.3			30.3	31.5	32.4		215	
220					23.2				33.8	34.2			28.6	29.4	30.3		220	
225									31.8	32.3			26.8	27.6	28.4		225	
230									26.5	28.1			25.1	25.9			230	
235									19.6				23.4	24.2			235	
240									10.1				21.9	22.5			240	
245													19.8	20.6			245	
250													14.4				250	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV23ENZF 43 ft


G	ft	107 ft + 74 ft*				125 ft + 74 ft*				143 ft + 74 ft*				161 ft + 74 ft*				ft	
		43 ft				43 ft				43 ft				43 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	28	203.4																28	
	30	199.4				197												30	
	32	195.4				194.5												32	
	34	191.3				191												34	
	36	187.3	147.2			187.5												36	
	38	183.2	145.1			184	144.7											38	
	40	179.8	143			180.5	142.9											40	
	45	172.1	137.8	114		172.8	138.2	114.7										45	
	50	164.6	133.4	110.5		166.3	133.8	111.5										50	
	55	157	129	107.3	75	159.7	129.9	108.3	75.3		160.9	130.3	109.1					55	
	60	150.8	124.7	104.1	73.6	153.1	126	105.4	74		155	126.8	106.4	74.2				60	
	65	145.5	120.8	101.2	72.2	147.6	122.3	102.5	72.7		149.2	123.3	103.7	73				65	
	70	140.1	117	98.5	70.9	142.9	119	99.9	71.5		144	120.1	101.1	71.8				70	
	75	134.7	113.2	95.8	69.7	138.2	115.8	97.6	70.4		139.6	117.2	98.8	70.8				75	
	80	129.8	109.6	93.4	68.6	133.5	112.6	95.2	69.3		135.5	114.5	96.6	69.8				80	
	85	125.7	106.8	91.3	67.6	128.8	109.5	92.9	68.3		131.3	111.7	94.5	68.8				85	
	90	121.8	104.1	89.3	66.6	124.9	106.8	91	67.4		127.1	108.9	92.4	68				90	
	95	118	101.3	87.2	65.7	121.4	104.3	89.2	66.5		123.3	106.3	90.6	67.1				95	
	100	114.1	98.6	85.3	64.9	118.1	101.8	87.3	65.6		119.7	103.9	88.9	66.2				100	
	105	110.3	95.9	83.4	64.1	114.8	99.3	85.4	64.9		116.3	101.7	87.2	65.4				105	
	110	106.6	93.7	81.9	63.4	111.5	96.8	83.7	64.1		111.2	99.4	85.5	64.8				110	
	115	103.4	91.6	80.4	62.7	108	94.3	82.2	63.4		105.1	97.2	83.8	64.1				115	
	120	100.8	89.7	78.9	62.1	103.3	92.3	80.8	62.8		99.5	94.9	82.2	63.4				120	
	125	98.2	87.7	77.4	61.4	98.2	90.4	79.4	62.2		94	92.8	81	62.8				125	
	130	94.4	85.8	76.1	61	92.9	88.6	78	61.7		89	90.4	79.7	62.3				130	
	135	89.9	84	75	60.6	88.1	86.8	76.7	61.1		84.3	86.1	78.4	61.7				135	
	140	85.2	82.4	73.9	60.2	83.6	84.5	75.5	60.7		79.9	81.8	77.1	61.2				140	
	145	80.7	80.7	72.7	59.9	79.3	81	74.5	60.3		75.7	77.5	75.9	60.8				145	
	150	76.6	78.2	71.7	59.6	75.2	76.9	73.4	60		71.9	73.6	74.6	60.4				150	
	155	72.7	74.2	70.8	59.4	71.5	73	72.3	59.7		68.2	69.8	71.2	60				155	
	160	69.1	70.4	69.9		67.9	69.4	70.7	59.4		64.7	66.2	67.7	59.7				160	
	165	65.5	66.8	67.8		64.6	65.9	67.2	59.2		61.4	62.9	64.3	59.4				165	
	170	62	63.2	64.2		61.4	62.7	63.8			58.3	59.7	61	59.1				170	
	175	58.8	59.8	60.7		58.4	59.6	60.7			55.4	56.7	57.9	59				175	
	180	55.6	56.7	57.5		55.5	56.6	57.7			52.6	53.9	55	56.5				180	
	185	52.7	53.7	54.4		52.8	53.9	54.8			49.9	51.1	52.2					185	
	190	50	50.8	51.4		50.2	51.2	52			47.4	48.6	49.5					190	
	195	47.3	48.1			47.6	48.5	49.3			45	46.1	47					195	
	200	44.8	45.5			45.1	46	46.7			42.7	43.7	44.6					200	
	205	41.2	43			42.8	43.6	44.1			40.5	41.5	42.3					205	
	210	33.6				40.5	41.2				38.4	39.3	40.1					210	
	215	23.3				38.4	39				36.4	37.3	37.9					215	
	220					36	36.9				34.5	35.3	35.9					220	
	225					30.1					32.7	33.4						225	
	230					22.5					30.9	31.6						230	
	235										29	29.7						235	
	240										24.4	26.5						240	
	245										18.3							245	
	250										10.4							250	
	255																	255	
	260																	260	

* adapter · pièce d'adaptateur

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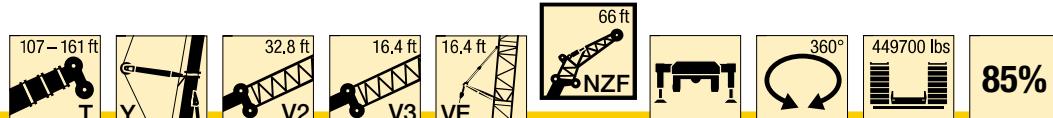
**Lifting capacities
Forces de levage**
TYV23ENZF 54 ft


	107 ft + 74 ft*				125 ft + 74 ft*				143 ft + 74 ft*				161 ft + 74 ft*					
	54 ft				54 ft				54 ft				54 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
30	164.7																30	
32	161.3				159.7												32	
34	157.8				157												34	
36	154.3				153.9												36	
38	150.9	107.8			150.8												38	
40	147.4	105.8			147.7	105											40	
45	139.2	100.6			140.1	100.7											45	
50	131	95.9	75.7		132.9	96.2	75.6										50	
55	122.9	91.8	73		125.7	92.3	73.2										55	
60	115.4	87.7	70.6	50.9	118.6	88.7	70.9										60	
65	109.7	83.9	68.3	49.7	112	85.1	68.8	50									65	
70	104.4	80.8	66	48.6	106.9	81.8	66.7	49									70	
75	99	77.8	63.9	47.5	102.2	79.1	64.8	48									75	
80	93.7	74.8	61.7	46.5	97.5	76.4	63	47									80	
85	89.4	71.9	59.7	45.5	92.9	73.7	61.2	46.1									85	
90	85.8	69.6	58	44.7	88.7	71.1	59.4	45.3									90	
95	82.6	67.3	56.3	43.8	85.3	69	57.8	44.5									95	
100	79.3	65.1	54.7	43	82.2	67	56.3	43.7									100	
105	76	62.8	53	42.3	79.3	65.1	54.8	43									105	
110	72.8	60.6	51.6	41.6	76.4	63.1	53.4	42.3									110	
115	69.7	58.6	50.2	40.9	73.5	61.2	51.9	41.6									115	
120	66.9	56.9	49	40.3	70.6	59.3	50.6	41									120	
125	64.8	55.2	47.8	39.8	67.9	57.6	49.5	40.4									125	
130	62.6	53.5	46.6	39.2	65.5	56	48.4	39.9									130	
135	60.4	51.9	45.5	38.6	63.6	54.5	47.3	39.4									135	
140	58.2	50.2	44.6	38.2	61.7	53	46.2	38.9									140	
145	56.1	48.8	43.7	37.8	59.8	51.5	45.2	38.4									145	
150	54.1	47.6	42.8	37.4	57.9	50	44.3	38									150	
155	52.4	46.5	41.9	37	56	48.7	43.5	37.6									155	
160	50.9	45.3	41.1	36.7	54.2	47.6	42.7	37.3									160	
165	49.3	44.1	40.4	36.4	52.5	46.5	41.9	36.9									165	
170	47.8	43	39.7		51.2	45.5	41.1	36.6									170	
175	46.3	42	39		49.8	44.4	40.4	36.4									175	
180	44.7	41.2	38.3		48.4	43.3	39.8	36.1									180	
185	43.5	40.3	37.7		47	42.4	39.2										185	
190	42.5	39.5	37.3		45.6	41.5	38.6										190	
195	41.4	38.7	36.8		44.2	40.7	38										195	
200	40.3	38	36.4		43.1	40	37.5										200	
205	39.3	37.4	36		42.1	39.2	37.1										205	
210	38.3	36.8			41.1	38.4	36.7										210	
215	37.4	36.2			39.8	37.8	36.3										215	
220	32.2				37.7	37.2	36										220	
225	23.4				35.8	36.3											225	
230					33.9	34.5											230	
235					28.6	31.3											235	
240					21.9												240	
245					12.9												245	
250																	250	
255																	255	
260																	260	
265																	265	
270																	270	

* adapter · pièce d'adaptateur

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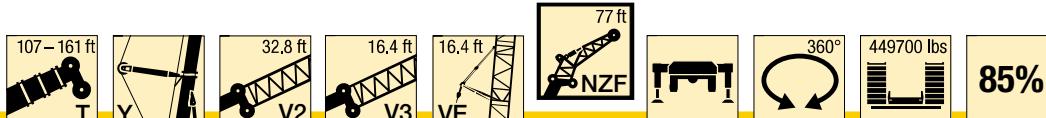


**Lifting capacities
Forces de levage**
TYV23ENZF 66 ft


G	ft	107 ft + 74 ft*				125 ft + 74 ft*				143 ft + 74 ft*				161 ft + 74 ft*				ft	
		66 ft				66 ft				66 ft				66 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	30	139.4																30	
	32	136.5																32	
	34	133.6				132.8												34	
	36	130.7				130.3				129.1								36	
	38	127.8				127.7				127				124.2				38	
	40	124.9				125.2				124.8				122.9				40	
	45	118.5	92.2			118.9	92.1			119.2				118				45	
	50	113.3	88.7			113.6	89.4			113.7	89.7			113.2	88.9			50	
	55	108.1	85.5	71.5		109	86.6	71.3		109.5	86.8			108.6	86.3			55	
	60	102.8	82.6	69.3		104.4	84	69.6		105.4	84	69.5		104.9	83.7	69		60	
	65	98.4	79.7	67.3		99.8	81.4	67.8		101.3	81.7	67.9		101.3	81.3	67.5		65	
	70	94.7	77	65.3	47.3	95.8	78.8	66		97.1	79.3	66.3		97.6	79.2	66		70	
	75	91.1	74.7	63.3	46.3	92.6	76.4	64.3	46.6	93.6	76.8	64.8	46.8	94	77.1	64.7		75	
	80	87.4	72.5	61.7	45.4	89.4	74.3	62.6	45.7	90.7	74.8	63.3	45.9	90.7	75	63.4	46	80	
	85	83.8	70.3	60.1	44.5	86.2	72.3	61.1	44.9	87.8	72.9	61.8	45.2	88.2	73	62.1	45.3	85	
	90	81	68.1	58.4	43.7	82.9	70.2	59.6	44.1	84.9	71	60.5	44.4	85.6	71.4	60.8	44.5	90	
	95	78.4	66.2	56.9	43	80.2	68.2	58.1	43.4	82.1	69.1	59.1	43.7	83.1	69.8	59.6	43.9	95	
	100	76	64.5	55.5	42.3	77.7	66.5	56.7	42.7	79.4	67.3	57.7	43	80.6	68.2	58.3	43.2	100	
	105	73.6	62.7	54.1	41.6	75.5	64.9	55.4	42	77.1	65.7	56.4	42.4	78.1	66.6	57.1	42.6	105	
	110	71.2	60.9	52.7	40.9	73.4	63.2	54.1	41.4	75	64.3	55.2	41.8	75.9	64.9	55.8	42	110	
	115	68.8	59.1	51.3	40.3	71.3	61.6	52.8	40.8	73.1	62.9	54	41.2	73.8	63.6	54.7	41.5	115	
	120	66.5	57.3	50	39.7	69.2	60	51.5	40.2	71.1	61.4	52.8	40.7	72.1	62.4	53.7	41	120	
	125	64.3	55.8	48.9	39.2	67.1	58.4	50.3	39.7	69.2	60	51.6	40.1	70.4	61.1	52.6	40.5	125	
	130	62.6	54.3	47.7	38.7	65	56.9	49.1	39.2	67.3	58.6	50.5	39.7	68.6	59.8	51.5	39.9	130	
	135	60.9	52.9	46.6	38.2	63.1	55.5	48.1	38.7	65.4	57.2	49.3	39.2	66.9	58.5	50.5	39.5	135	
	140	59.1	51.5	45.5	37.8	61.5	54.2	47.1	38.3	63.4	55.9	48.4	38.7	65.2	57.3	49.4	39.1	140	
	145	57.4	50	44.6	37.4	60	52.9	46.1	37.9	61.7	54.7	47.5	38.3	63.5	56	48.5	38.7	145	
	150	55.6	48.7	43.7	37	58.5	51.5	45.1	37.5	60.3	53.5	46.6	37.9	61.7	54.9	47.6	38.3	150	
	155	54	47.5	42.9	36.7	56.9	50.2	44.2	37.1	58.9	52.3	45.7	37.5	59.7	53.8	46.8	37.9	155	
	160	52.3	46.4	42.1	36.4	55.4	48.9	43.4	36.8	57.6	51	44.8	37.1	57.5	52.7	45.9	37.5	160	
	165	51	45.4	41.2	36.1	53.9	47.8	42.7	36.5	56.2	49.8	44	36.8	55.2	51.6	45.1	37.2	165	
	170	49.6	44.3	40.5	35.9	52.4	46.8	41.9	36.2	54.9	48.7	43.2	36.5	52.9	50.6	44.3	36.8	170	
	175	48.2	43.3	39.8	35.7	51.1	45.8	41.2	36	53.6	47.6	42.5	36.3	50.7	49.5	43.5	36.5	175	
	180	46.9	42.2	39.2	35.5	49.8	44.8	40.5	35.8	52.2	46.6	41.8	36	48.4	48.4	42.8	36.3	180	
	185	45.5	41.4	38.6		48.6	43.8	39.8	35.6	50.5	45.6	41.2	35.8	46.1	47.3	42.2	36	185	
	190	44.1	40.6	38		47.3	42.8	39.3	35.4	48.4	44.7	40.5	35.6	43.9	45.6	41.6	35.8	190	
	195	43	39.8	37.4		46.1	41.9	38.7		46.1	43.8	39.8	35.4	41.7	43.7	41	35.6	195	
	200	42	39.1	37		44.8	41	38.2		43.9	42.9	39.3	35.3	39.7	41.9	40.3	35.4	200	
	205	41	38.3	36.6		43.6	40.3	37.6		41.7	41.9	38.8		37.8	40	39.6	35.3	205	
	210	40	37.6	36.2		42.2	39.6	37.1		39.6	41	38.2		35.9	38	38.5	35.1	210	
	215	39	37.1	35.9		40.4	38.9	36.8		37.7	39.1	37.7		34	36.1	36.8	35	215	
	220	38.1	36.6			38.4	38.2	36.4		35.8	37.1	37.2		32.1	34.1	35.2		220	
	225	36	36			36.6	37.4	36.1		34	35.2	36.1		30.2	32.3	33.5		225	
	230	30.3	33.7			34.8	35.7	35.7		32.3	33.4	34.4		28.3	30.5	31.7		230	
	235	22.8				33	33.8			30.6	31.7	32.6		26.5	28.8	29.9		235	
	240					31.2	32			29	30	30.9		25	27.2	28.2		240	
	245					26.7	29.6			27.5	28.4	29.2		23.6	25.6	26.6		245	
	250					20.8				26	26.9			22.2	24	25		250	
	255					13.1				24.3	25.3			20.7	22.4	23.3		255	
	260									20.9	23.4			19.3	20.9	21.7		260	
	265									16.1				17.9	19.5			265	
	270									10.2				16.6	18			270	
	275													14.6	16.4			275	
	280													10.6	13.1			280	

* adapter · pièce d'adaptateur

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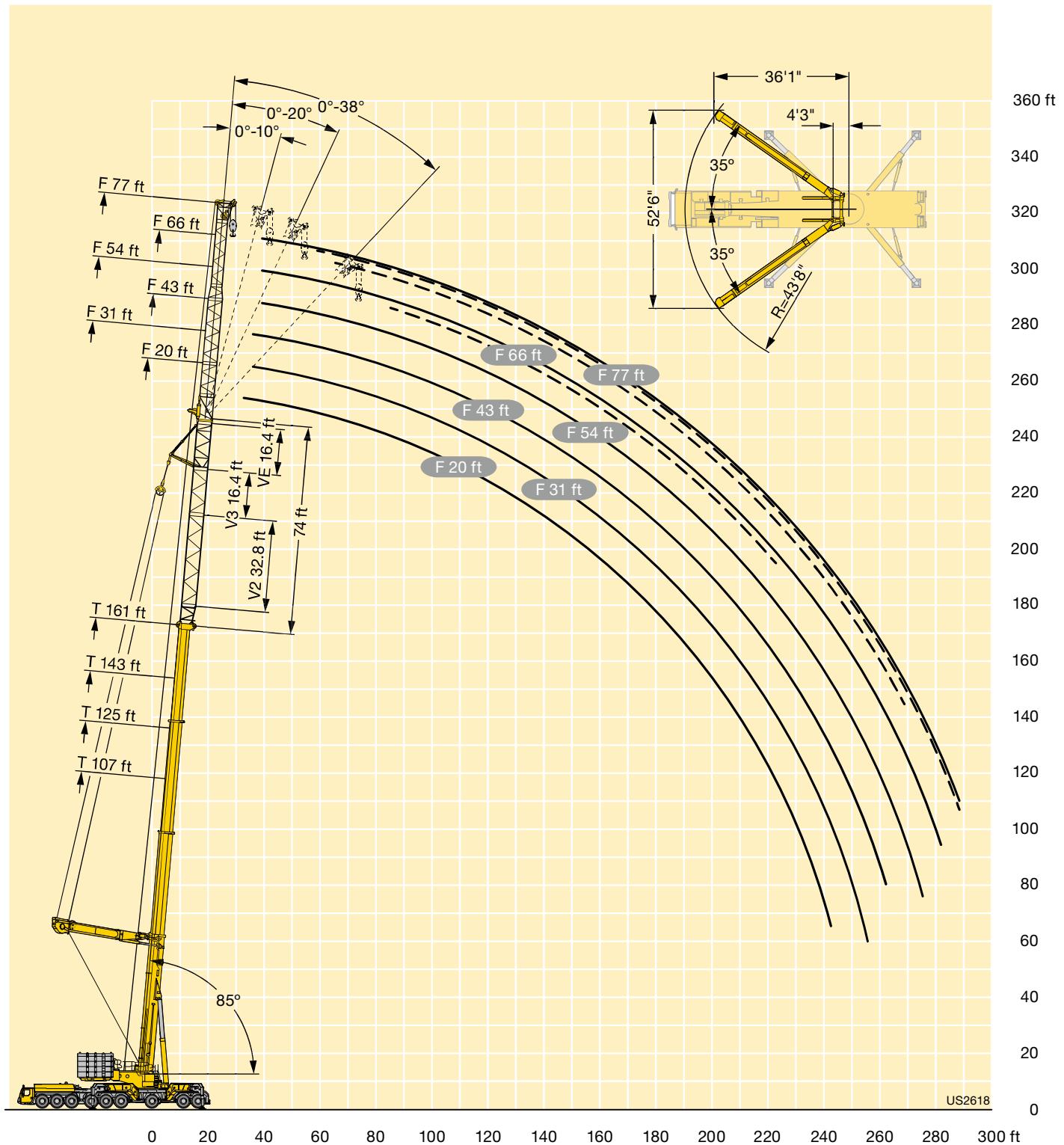
Lifting capacities
Forces de levage
TYV23ENZF 77 ft


ft	107 ft + 74 ft*				125 ft + 74 ft*				143 ft + 74 ft*				161 ft + 74 ft*				ft	
	77 ft				77 ft				77 ft				77 ft					
	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
32	117.7																32	
34	115.4				113.7												34	
36	113				112.1				110.2								36	
38	110.5				110				109.2								38	
40	108.1				107.9				107.4				105.5				40	
45	102.2	79.2			102.6				102.6				101.4				45	
50	97.6	76.5			97.6	76.2			97.9	75.7			97.2				50	
55	93.2	73.5			93.8	73.6			93.9	73.5			93.1	72.8			55	
60	88.8	71	59.8		89.9	71	59.5		90.4	71.2			89.8	70.7			60	
65	84.6	68.6	58.1		86.1	68.8	58.1		86.9	69	58		86.7	68.6	57.5		65	
70	81.3	66.3	56.4		82.4	66.7	56.6		83.5	67	56.6		83.7	66.7	56.3		70	
75	78.3	64.1	54.8		79.4	64.6	55.2		80.2	65.1	55.2		80.6	65	55		75	
80	75.3	62.2	53.1	38.6	76.7	62.7	53.8	38.7	77.4	63.2	54		77.7	63.3	53.9		80	
85	72.2	60.3	51.7	37.8	74	61	52.4	38	75	61.4	52.8	38.1	75.2	61.6	52.8	38.2	85	
90	69.2	58.5	50.3	37	71.3	59.3	51.1	37.2	72.6	59.9	51.7	37.4	73.1	60	51.7	37.5	90	
95	67	56.7	48.9	36.3	68.6	57.6	49.9	36.6	70.2	58.4	50.5	36.8	70.9	58.6	50.6	36.9	95	
100	64.9	55.1	47.6	35.6	66.4	56	48.6	35.9	67.8	56.9	49.4	36.2	68.8	57.2	49.6	36.3	100	
105	63	53.6	46.5	35	64.3	54.5	47.4	35.3	65.7	55.4	48.3	35.6	66.6	55.9	48.7	35.8	105	
110	61	52.1	45.5	34.4	62.6	53.2	46.3	34.8	63.7	54	47.2	35	64.6	54.5	47.8	35.2	110	
115	59	50.7	44.4	33.9	60.8	51.9	45.4	34.2	62.1	52.8	46.2	34.5	62.8	53.1	46.8	34.7	115	
120	57.1	49.2	43.4	33.3	59	50.7	44.4	33.7	60.5	51.7	45.3	34	61.2	52.1	46	34.2	120	
125	55.2	47.7	42.4	32.8	57.3	49.4	43.5	33.2	58.9	50.6	44.4	33.5	59.7	51.1	45.1	33.8	125	
130	53.3	46.5	41.4	32.3	55.5	48.2	42.5	32.7	57.3	49.5	43.5	33.1	58.3	50.1	44.3	33.3	130	
135	51.9	45.4	40.6	31.8	53.8	46.9	41.6	32.3	55.7	48.3	42.6	32.6	56.9	49.1	43.5	32.9	135	
140	50.5	44.3	39.8	31.4	52.1	45.9	40.9	31.9	54.1	47.2	41.8	32.2	55.4	48.1	42.6	32.5	140	
145	49.1	43.2	39	31.1	50.9	44.8	40.1	31.4	52.5	46.2	41	31.8	54	47.1	41.8	32.1	145	
150	47.6	42.2	38.2	30.7	49.7	43.8	39.4	31.1	51.1	45.2	40.3	31.4	52.6	46.1	41	31.8	150	
155	46.2	41.1	37.6	30.3	48.4	42.8	38.6	30.7	50	44.3	39.6	31.1	51.2	45.2	40.4	31.4	155	
160	44.8	40.1	36.9	30	47.2	41.9	37.9	30.4	48.9	43.4	39	30.8	49.9	44.3	39.7	31.1	160	
165	43.5	39.3	36.3	29.7	46	40.9	37.3	30.1	47.8	42.5	38.3	30.5	48.7	43.5	39.1	30.8	165	
170	42.4	38.5	35.7	29.5	44.8	40	36.7	29.8	46.7	41.6	37.6	30.2	47.5	42.7	38.5	30.5	170	
175	41.5	37.8	35.1	29.2	43.6	39.2	36.2	29.6	45.7	40.7	37.1	29.9	46.4	41.9	37.9	30.2	175	
180	40.5	37	34.6	29	42.5	38.5	35.7	29.3	44.6	39.9	36.6	29.6	45.2	41.1	37.3	29.9	180	
185	39.5	36.3	34.1	28.8	41.6	37.8	35.1	29.1	43.5	39.1	36.1	29.4	44.1	40.3	36.8	29.6	185	
190	38.5	35.6	33.7	28.7	40.7	37.1	34.6	29	42.4	38.4	35.6	29.2	42.9	39.5	36.3	29.4	190	
195	37.4	35	33.3		39.8	36.4	34.1	28.8	41.5	37.8	35.1	29	41.8	38.7	35.9	29.2	195	
200	36.6	34.4	32.9		38.9	35.7	33.8	28.7	40.6	37.1	34.6	28.8	40.7	37.7	35.4	29	200	
205	35.8	33.9	32.5		38	35.1	33.4		39.8	36.5	34.1	28.7	39.1	36.8	34.9	28.8	205	
210	35.1	33.4	32.2		37.1	34.5	33		39	35.9	33.8	28.5	37.3	35.8	34.5	28.7	210	
215	34.4	32.8	32		36.2	34.1	32.6		38	35.2	33.4	28.4	35.4	34.9	33.9	28.5	215	
220	33.7	32.4	31.7		35.6	33.6	32.3		36.7	34.6	33		33.5	33.9	33.3	28.4	220	
225	33	32	31.5		34.9	33.1	32		34.9	34.2	32.7		31.8	33	32.3	28.3	225	
230	32.5	31.7			34.3	32.6	31.8		33.2	33.7	32.4		30.1	31.6	31.4		230	
235	32	31.4			33.6	32.2	31.6		31.5	32.8	32.1		28.4	30	30.5		235	
240	29	31.1			32.4	31.9	31.4		30	31.2	31.7		26.6	28.4	29.5		240	
245	22.5				30.9	31.4			28.4	29.6	30.6		24.9	26.8	28		245	
250	13.6				29.3	30.1			27	28.1	29		23.6	25.3	26.5		250	
255					25.4	28.5			25.5	26.5	27.4		22.2	23.9	24.9		255	
260					20.1				24.2	25.1			20.9	22.4	23.4		260	
265					13.4				22.6	23.7			19.5	21	22		265	
270									19.6	22			18.2	19.7	20.6		270	
275									15.3				16.8	18.3			275	
280									10.1				15.5	17			280	
285													13.5	15.5			285	
290													9.9	12.7			290	

* adapter · pièce d'adaptateur

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**Lifting heights
Hauteurs de levage**
TYV23ENZF


**Lifting capacities
Forces de levage**
TYV23E3NZF 20 ft

		107 ft + 91 ft*				125 ft + 91 ft*				143 ft + 91 ft*				161 ft + 91 ft*					
		20 ft				20 ft				20 ft				20 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
		231.6																	26
		230.7																	28
		228.9	202.4			227.3													30
		227.2	200.4			226.2													32
		225.5	198.4	158.7		224.7	199.4												34
		223.8	196.4	157.1		223.2	197.6	158.8											36
		222	194.4	155.5	119.4	221.7	195.7	157.3											38
		220.4	192.2	153.9	118.2	220.2	193.9	155.8	118.9										40
		216.4	185.7	149.8	115.4	216.3	189.5	152.1	116.2										45
		212.3	179	145.8	112.8	212.8	183.6	148.4	113.8										50
		208.2	172.3	142.1	110.4	209.3	177.4	144.6	111.5										55
		203.2	165.6	139	108.1	204.3	171.2	141.5	109.4										60
		198	160.9	135.9	106	195	165.1	138.6	107.4										65
		192.7	156.6	132.8	104.1	185	160.9	135.8	105.5										70
		185.3	152.4	129.7	102.1	175.1	157	132.9	103.8										75
		173.5	148.2	126.6	100.3	165.1	153.1	130.1	102										80
		161.7	144	124.4	98.8	155.2	149.2	127.2	100.3										85
		150.9	140.5	122.2	97.3	147	145.3	124.9	98.9										90
		141.4	137.2	119	95.8	137.9	139.2	123.2	97.5										95
		132.7	133.4	116.2	94.5	129.5	130.7	120	96.2										100
		124.6	125.7	113.5	93.3	121.7	123	117.1	94.9										105
		117.1	118.4	110.7	92.1	114.6	115.8	114.5	93.8										110
		110.3	111.5	108	91.1	108.1	109.1	109.6	92.6										115
		104.1	105.1	105.3	90.1	101.9	103	104	91.5										120
		98.2	99.1	100.1	89.2	96.2	97.3	98.2	90.6										125
		92.7	93.7	94.6	88.3	91	92	92.8	89.8										130
		87.6	88.6	89.4	87.7	86.1	86.9	87.8	88										135
		82.9	83.8	84.5	85.1	81.4	82.3	83.1	84.2										140
		78.5	79.3	79.9	80.9	77.1	78	78.7	79.7										145
		74.3	75	75.6		73.1	73.9	74.5	75.5										150
		70.3	71	71.5		69.3	70	70.6	71.5										155
		66.5	67.1	67.5		65.7	66.3	67											160
		62.8	63.3	63.7		62.3	62.9	63.5											165
		59.3	59.8	60.2		59.1	59.7	60.2											170
		56	56.5	56.9		56	56.6	57.1											175
		52.9	53.4	53.7		53.1	53.7	54.1											180
		50	50.4	50.7		50.4	50.8	51.2											185
		47.2	47.6			47.6	48.1	48.4											190
		44.6	44.9			45	45.4	45.7											195
		39.8	40.9			42.5	42.9	43.2											200
		31.1				40.2	40.5												205
		37.9				37.9	38.2												210
		34.7				34.7	35.7												215
		28				32.1													220
		19.2				30.3													225
						22.3													230
						15.5													235
																			240
																			245
																			250
																			255

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV23E3NZF 31 ft

		107 ft + 91 ft*				125 ft + 91 ft*				143 ft + 91 ft*				161 ft + 91 ft*					
		31 ft				31 ft				31 ft				31 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
H	28	226.1																28	
	30	225																30	
	32	223.4				222												32	
	34	221.8	186			220.6				209.8								34	
	36	220.3	182.9			219.2				208.5								36	
	38	218.7	179.4	139.3		217.9	179			207.3				194.9				38	
	40	216.9	176	137.4		216.5	176			206.1	175.4			191.9				40	
	45	209.1	167.8	132.7		212.5	168.8	132.7		203.1	168.7	132.4		184	166.3			45	
	50	200.6	161	128.4	92.2	203.8	162.1	128.4	92.7	196.3	162	128.7	92.9	176.1	160.6	127.7		50	
	55	192.2	154.2	124.3	90.3	195	156.2	124.8	90.8	186.4	156.5	125.1	91.3	168.3	155	124.3	92.2	55	
	60	183.8	147.8	120.3	88.4	186.1	150.2	121.3	89.1	176.3	151.3	121.7	89.7	160.7	150	121.3	90.6	60	
	65	175.5	142.5	116.6	86.7	177.1	144.6	117.8	87.4	165.9	146.1	118.4	88	152.4	145.2	118.3	89.1	65	
	70	167.2	137.3	112.9	84.9	169.7	139.9	114.7	85.8	157.8	141.1	115.4	86.5	143.9	140.4	115.4	87.6	70	
	75	158.9	132.2	109.3	83.4	162.6	135.4	111.7	84.2	150.6	137	112.7	85.1	137.2	135	112.7	86.2	75	
	80	150.8	127.3	106.2	81.9	155.4	130.9	108.6	82.9	143.6	133	110.1	83.7	131.4	129.5	110.3	84.8	80	
	85	144.6	123.4	103.4	80.5	147.3	126.5	105.8	81.6	136.7	129	107.5	82.5	125.6	124	108	83.6	85	
	90	138.9	119.6	100.6	79.2	141.1	122.7	103.3	80.3	129.7	125	105	81.2	119.7	118.4	105.6	82.4	90	
	95	133.6	115.9	97.8	78	134.8	119.4	100.7	79.1	124	120.5	102.7	80	113.7	112.8	103.2	81.3	95	
	100	128.4	112.1	95.2	76.9	127.5	116.2	98.2	78	119	116.5	100.4	78.8	107.9	107.9	100.7	80.1	100	
	105	122.6	108.3	92.8	75.8	120.5	112.9	95.7	76.9	114.2	112.4	98.2	77.8	102.5	103.7	98	79	105	
	110	116.4	105	90.8	74.8	113.5	109.7	93.3	75.9	109.1	108	95.9	76.9	97.5	99.4	95.4	78.1	110	
	115	109.7	101.9	88.8	73.9	107.1	106.2	91.3	75	103	103.4	93.5	75.9	92.8	94.9	92.7	77.1	115	
	120	103.6	99	86.7	73	101.2	102.2	89.4	74.1	97.2	98.6	91.5	75	88.2	90.3	90	76.2	120	
	125	97.9	96	84.8	72.2	95.6	97.3	87.6	73.3	91.8	93.5	89.8	74.2	83.6	85.6	87.4	75.3	125	
	130	92.5	92.8	83.1	71.5	90.5	92	85.7	72.5	86.9	88.3	87.7	73.5	79	80.8	83.5	74.5	130	
	135	87.5	89	81.6	70.8	85.7	87.1	84	71.8	82.2	83.7	85.1	72.7	74.3	76.6	79.6	73.4	135	
	140	82.9	84.2	80.1	70.1	81.1	82.5	82.2	71.2	77.8	79.2	80.6	72	69.7	72.6	75.6	72.2	140	
	145	78.5	79.8	78.6	69.6	76.9	78.2	79	70.5	73.7	75	76.4	71.3	65.8	69.1	71.5	71	145	
	150	74.4	75.6	76.4	69.1	72.9	74.1	75.3	69.9	69.8	71.1	72.3	70.7	62.7	65.6	67.5	69.1	150	
	155	70.6	71.7	72.7	68.7	69.2	70.3	71.4	69.4	66.2	67.4	68.6	69.5	59.6	62.1	63.8	66.5	155	
	160	66.9	68	68.9		65.6	66.8	67.7	68.1	62.8	63.9	65	66.4	56.6	58.6	60.3	63	160	
	165	63.5	64.5	65.3		62.3	63.4	64.3	65.6	59.5	60.6	61.6	63.1	53.6	55.1	57.3	59.6	165	
	170	60.2	61.2	62		59.2	60.1	61		56.4	57.5	58.4	59.8	50.6	51.8	54.3	56.4	170	
	175	57.1	57.9	58.6		56.2	57.1	57.9		53.5	54.5	55.4	56.6	47.5	49.2	51.3	53.4	175	
	180	54	54.8	55.4		53.3	54.2	55		50.7	51.7	52.5	53.7	44.6	46.8	48.3	50.4	180	
	185	51.1	51.8	52.4		50.6	51.5	52.2		48	49	49.8		42.1	44.3	45.4	47.6	185	
	190	48.3	49	49.5		48.1	48.8	49.5		45.5	46.4	47.1		40	41.8	42.7	44.9	190	
	195	45.8	46.3	46.8		45.6	46.4	47		43.2	44	44.7		37.9	39.4	40.5		195	
	200	43.3	43.8			43.3	44	44.5		40.9	41.6	42.3		35.7	36.9	38.2		200	
	205	40.9	41.4			41.1	41.7	42.1		38.7	39.4	40		33.6	34.7	36		205	
	210	36.9	38.5			38.8	39.4	39.8		36.6	37.3	37.9		31.5	32.6	33.8		210	
	215	29.4				36.7	37.2			34.6	35.3	35.8		29.4	30.8	31.5		215	
	220	19.3				34.7	35.1			32.7	33.3	33.8		27.4	28.9	29.6		220	
	225					32	33.1			30.9	31.4	31.9		25.7	27	27.8		225	
	230					26.1				29.2	29.6			24.2	25.1	26		230	
	235					18.6				27.5	27.9			22.6	23.3	24.2		235	
	240									25.1	25.9			21	21.7	22.4		240	
	245									20.4	21.8			19.5	20.3			245	
	250									14.5				17.9	18.8			250	
	255													16.6	17.3			255	
	260													13.9	15.1			260	
	265													9.1				265	

* adapter · pièce d'adaptateur

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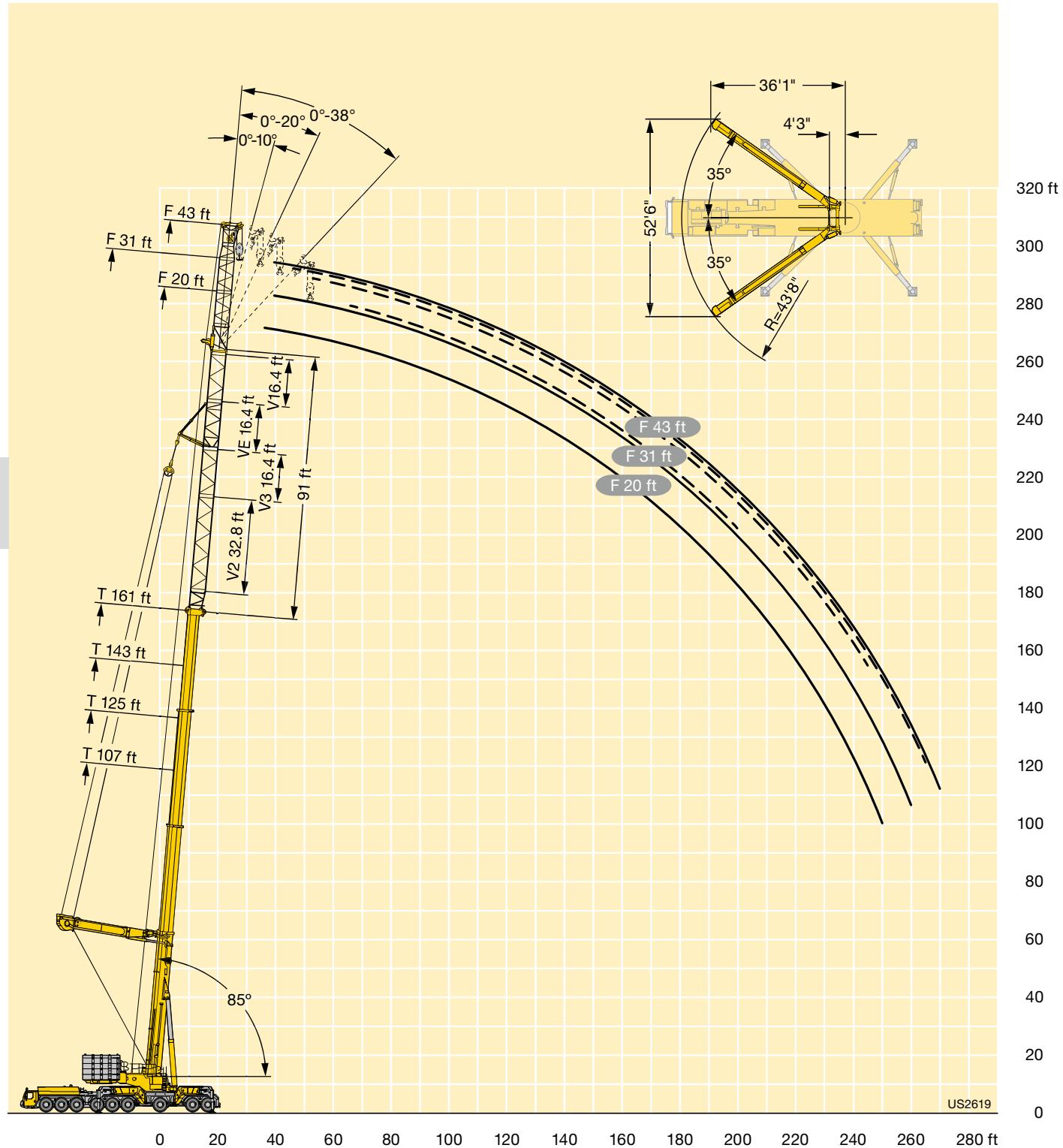


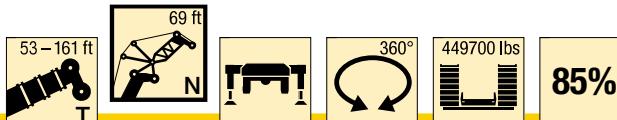
**Lifting capacities
Forces de levage**
TYV23E3NZF 43 ft

		107 ft + 91 ft*				125 ft + 91 ft*				143 ft + 91 ft*				161 ft + 91 ft*					
		43 ft				43 ft				43 ft				43 ft					
		0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°	0°	10°	20°	38°		
	30	192.5																	30
	32	189.9																	32
	34	186.5				185													34
	36	183.1				182.1													36
	38	179.7	142.6			179.1													38
	40	176.3	140.8			176.2	139.9												40
	45	168.9	136.2	113.5		168.8	136				168.5	135.5							45
	50	162.5	132	110.2		162.5	131.9	110.7			162.3	131.7	110.5						50
	55	156.1	128.2	107.1	74.9	156.7	128.3	107.7			156.8	128.1	108						55
	60	149.7	124.3	104.2	73.5	150.9	124.9	105.1	73.8		151.4	124.9	105.5	74					60
	65	143.3	120.4	101.2	72.2	145.1	121.5	102.5	72.6		146	121.7	103.2	72.8					65
	70	137	116.3	98.7	71	139.4	118	99.9	71.4		140.6	118.5	100.8	71.8					70
	75	130.8	112.1	96.4	69.9	133.8	114.1	97.6	70.3		135.5	115.2	98.5	70.7					75
	80	124.5	107.9	94	68.9	128.2	110.1	95.5	69.4		130.6	111.6	96.3	69.7					80
	85	118.6	103.8	91.7	67.9	122.7	106.1	93.3	68.4		125.7	108	94.2	68.8					85
	90	113.9	100.3	89.2	67	117.1	102.2	91.2	67.5		120.8	104.3	92.1	67.9					90
	95	109.7	97.1	86.8	66	112.4	98.9	88.9	66.7		115.9	100.7	89.9	67.1					95
	100	105.6	93.9	84.3	65.2	108.3	96	86.6	65.8		111.6	97.4	87.8	66.3					100
	105	101.6	90.7	81.9	64.5	104.8	93.2	84.3	65		107.4	94.8	85.8	65.5					105
	110	97.5	87.4	79.5	63.8	101.2	90.4	82	64.3		103.6	92.3	83.7	64.8					110
	115	93.5	84.4	77.3	63.1	97.6	87.6	79.7	63.7		99.8	89.7	81.6	64.2					115
	120	89.7	81.8	75.2	62.5	94	84.7	77.6	63		95.8	87.2	79.6	63.6					120
	125	86.7	79.4	73	61.9	90.5	82.1	75.7	62.5		91.4	84.6	77.5	63					125
	130	84.1	77	70.9	61.3	86.9	79.8	73.8	61.9		86.4	82	75.8	62.4					130
	135	81.4	74.7	68.9	60.8	84.3	77.7	72	61.4		81.9	79.7	74.1	61.9					135
	140	78.8	72.3	67.2	60.3	81	75.7	70.1	61		77.6	77.5	72.4	61.5					140
	145	76.1	70.1	65.6	59.8	76.8	73.6	68.2	60.4		73.6	75.3	70.8	61					145
	150	73.5	68.2	64	59.3	73	71.5	66.6	59.9		69.8	71.6	69.1	60.5					150
	155	70.8	66.4	62.5	58.6	69.3	69.5	65.1	59.4		66.2	67.9	67.4	60.1					155
	160	67.3	64.6	60.9	57.7	65.7	67.1	63.7	58.9		62.9	64.4	65.4	59.6					160
	165	63.9	62.9	59.6	56.8	62.5	63.9	62.3	58.3		59.6	61.2	62.5	59.1					165
	170	60.7	61.1	58.4		59.4	60.8	60.7	57.5		56.6	58.1	59.4	58.6					170
	175	57.7	58.8	57.2		56.4	57.8	58.7	56.7		53.7	55.1	56.4	57.3					175
	180	54.8	56	56		53.6	54.9	56	55.9		51	52.3	53.5	55.3					180
	185	52.1	53.2	54		51	52.2	53.2			48.3	49.7	50.8	52.4					185
	190	49.5	50.5	51.3		48.5	49.6	50.6			45.9	47.1	48.2	49.7					190
	195	46.9	47.8	48.5		46.1	47.1	48			43.6	44.7	45.7						195
	200	44.4	45.2	45.9		43.8	44.8	45.6			41.3	42.4	43.3						200
	205	42.1	42.8	43.4		41.6	42.5	43.3			39.1	40.2	41.1						205
	210	39.8	40.5			39.5	40.3	41			37.1	38	38.9						210
	215	37.6	38.3			37.5	38.3	38.9			35.1	36	36.8						215
	220	34.3	36.1			35.6	36.3	36.8			33.2	34.1	34.8						220
	225	27.7				33.7	34.3				31.4	32.2	32.9						225
	230	19.2				31.8	32.4				29.7	30.4	31						230
	235					29.6	30.5				28	28.7	29.2						235
	240					24.2					26.4	27							240
	245					17.7					24.9	25.4							245
	250										22.7	23.8							250
	255										18.6	20.4							255
	260										13.3								260
	265																		265
	270																		270

* adapter · pièce d'adaptateur

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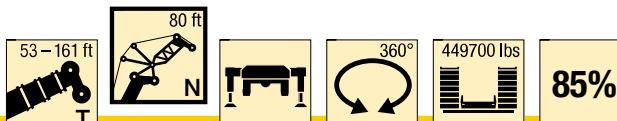
**Lifting heights
Hauteurs de levage**
TYV23E3NZF


**Lifting capacities
Forces de levage**
TN 69 ft - 80 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*						
	69 ft			69 ft			69 ft			69 ft			69 ft			69 ft			69 ft						
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°				
36	293.9																						36		
38	286.9			293.6																			38		
40	278.7			292.8			268.7																40		
45	255.4			277.3			272.2			205.3													45		
50	237.1			257.1			266.3			193.7			161.8			132.8							50		
55	222.9	232.2		240.8			249.9			182.2			153.1			127.7			103.3				55		
60	212.3	214.2		228.6	240.9		236.4			171.7			145.1			122.1			100.2				60		
65	205.3	200.2		220.1	223.1		226.4	240.1		162			137.7			116.6			96.7				65		
70	201.9	189.8		213.9	209.1		219.3	223.6		153.7	149.9		131.1			111.6			93.1				70		
75	192.5	182.5	187.5	200.1	198.6		209.2	208.2		146.9	139.4		125	118.8		106.9			89.7				75		
80		178.5	174.9	191.4			192.6	195.8		142	130.8		119.9	111.5		102.8			86.6				80		
85		174.9	165.4	188	187.6		185.5			123.4			116.1	104.9		99.1	90.9		83.3				85		
90			159.3		184.8	176.6		178.1	170.1		117.4			99.2			85.9		80.4	73.5			90		
95			154.3			166.6		170.5	160.5		112.5			94.3			81.3			69.7			95		
100					157.6			150.8		109.5	102.9		90.4			77.5			66.3				100		
105							142.7			96.1			87.3			74.1			63.2				105		
110							136.6			90.9				76.6						60.6				110	
115										86.6				72										115	
120										83.4				68.3			58.6							120	
125											65.1				55.4									125	
130														52.7											130
135																									135
140																									140

* adapter · pièce d'adaptateur

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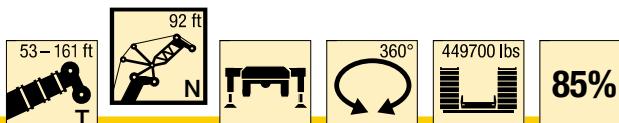


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*				
	80 ft			80 ft			80 ft			80 ft			80 ft			80 ft			80 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
40	280.4						244.7																40
45	255.4			274.9																			45
50	235.1			255.4			246.9			187.4			152.2										50
55	218.4			237.5			242.6			177			147.6			120.4							55
60	205.1	218.4		222.8			230.5			167.4			140.6			116.5			93.7				60
65	194.4	200.7		210.8	226.7		218.2			158.5			133.7			112			91.4				65
70	186.5	187.1		201.6	209.9		208.5	224.2		150.2			127.4			107.5			88.7				70
75	181.3	176.2		194.8	196.2		200.7	210.4		142.7	141.9		121.6			103.1			85.8				75
80	176.7	168.2	179.8	185.5	185.5		193.4	197.6		136.1	132.3		116.2	112.6		99.1			82.9				80
85	166.9	162.3	166.8	172.4	177		179.9	186		130.5	124		111.3	106.1		95.3			80				85
90	158.5	156.3	159.1	171.3	175.7		167.2	175.8		126.5	116.9		107.1	99.8		91.9	86.2		77.4				90
95	154	148.4		168.2	165.9		167.3			124.4	110.9		103.9	94.2		89	81.5		74.8	69.3			95
100		143		163.8	157		160.6	151.4		105.8			89.5			77.3			72.4	65.9			100
105		138.4			148.9		152.9	143.6		101.6	100.9		85.5			73.6			62.7				105
110					141.6			136.5		98.9	93.5		82.1			70.3			59.8				110
115					134.8			130		87.7			79.3	74.8		67.4			57.2				115
120							124			83.1			70			65.1			55				120
125										79.4			65.9			57.1			53				125
130										76.4			62.7			53.7			48.4				130
135													59.9			50.8			46.3				135
140																48.4			40.6				140
145																46.3			38.5				145
150																36.7			36.7				150

* adapter · pièce d'adaptateur

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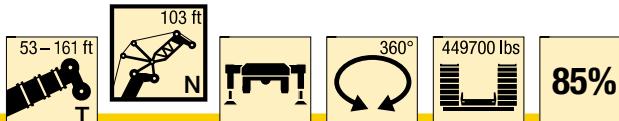


Lifting capacities
Forces de levage
TN 92 ft - 103 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*				
	92 ft			92 ft			92 ft			92 ft			92 ft			92 ft			92 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
45	250.7			250.1																			45
50	232.1			245.6			220.3			174													50
55	215.7			233.5			218.8			167.4				137.9									55
60	202.2			219.2			216			159.6				133			108.3						60
65	190.8	200.2		207.1			211			151.9				127.6			105.3						65
70	181.6	186.2		196.8	208.5		202.5			144.8				122.1			101.9						70
75	174.3	174.7		188.4	194.9		194.2	202.5		183.1				116.8			98.2						75
80	168.8	165.4		182.1	183.7		187.4	194.6		132.2	130.1			112			94.6						80
85	163.8	157.9		176.4	174.2		181.4	184.2		126.6	122.5			107.5	103.5		91.2						85
90	157.8	152	157.1	165.3	166.5		172.3	174.3		121.6	115.5			103.4	98.2		88						90
95	150.1	147.8	147.5	154.5	160.6	164.9	160.6	165.3		117.3	109.5			99.7	92.9		85	79.4					95
100	124.3	143.3	140	142.9	156.7	156.1	150.5	157.6		114.2	104.2			96.5	88.2		82.3	75.7					100
105		139	134.2		154.6	148		151.3	142.6		112.5	99.4			94	84		80	72.1				105
110			130.3		147.7	140.8		144.8	135.7		95.6				80.3			78.3	68.8				110
115				125.9			134.1			137.8	129.2			92.4	88.3		77						115
120				123.4			127.9			123.3		90.2	83.3			74.3			63.2				120
125							122.2			117.8			79			72.2	66		61				125
130										112.7			75.4			62.4			59.1				130
135										107.9			72.5			59.3			50.4				135
140													70.1			56.7			47.8				140
145																54.5			45.6				145
150																52.7			43.6				150
155																			41.9				155
160																				33			160
165																				31.7			165

* adapter · pièce d'adaptateur

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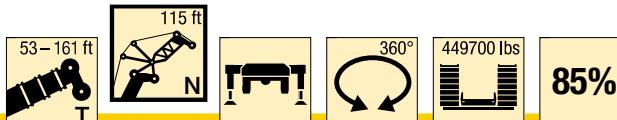


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*				
	103 ft			103 ft			103 ft			103 ft			103 ft			103 ft			103 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	
50	227.8			222.2			199			157.7													50
55	213.7			217.6			196.6																55
60	199.7			212.7			194.1			152.3				125.6			100.8						60
65	187.6			203			191.7			146.3				121.7			98.7						65
70	177.5	188.5		192.4			189.6			140				117.4			96.3						70
75	168.8	175.2		183.1	193.9		185.9			133.8				112.8			93.6						75
80	161.8	164.5		175.4	183.4		180.1	180.7		128.2				108.3			90.7						80
85	156.1	155.3		169.1	172.9		173.9	178.2		122.8	122.1			104.1			87.7						85
90	151.5	148.2		163.1	164.1		168.5	173		117.9	115.7			100.2	97		84.7						90
95	146	142.1	151	155.1	156.7		160.7	165.1		113.6	109.6			96.5	92.7		81.9						95
100	140.6	137.6	141.1	145.6	150.5		151.1	157.2		109.4	103.9			93.1	88.1		79.2	74.9					100
105	133.8	133.8	133.4	137.1	145.7	147.6	142	149.9		105.9	98.8			90	83.8		76.7	71.4					105
110	116.8	129.2	127.3	129.4	142.6	140.4	134	143.5		103.3	94.4			87.3	79.7		74.5	68.3					110
115	125.2	122.4		139.2	133.8		125.9	137.8	128.8	101.7	90.5			85.2	76.2		72.5	65.3					115
120	120.8	118.9		131.8	127.7		131.5	123		87.1	85.8			84	73.1		71.1	62.5					120
125		114.8			122.1			125.6	117.5		84.4	80.7				70.3			60				125
130		111.5			116.9			120.2	112.5		82.4	76.3			68	64.1		57.7					130
135					112				107.9		81.4	72.6			66	60.4		55.8					135
140							107.3			103.5			69.4				57.2		54.1	48.9			140
145										99.4			66.8				54.5		46.1	43.8			145
150													64.7				52.2		43.8				150
155																50.2		41.8					155
160																48.6		40.1					160
165																		38.5		31.5			165
170																		29		30.2			170
175																				29			175

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

TN 115 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			 ft	
	115 ft			115 ft			115 ft			115 ft			115 ft			115 ft			115 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
50	207.9																						50
55	203.1			196.7			176.8																55
60	196			193.1			174.7			142.5			116.5										60
65	184.9			190			172.6			138.3			113.9			90.1							65
70	174.2			186.2			170.8			133.6			110.9			89.4			69.4				70
75	165.1	176.5		178.6			169.1			128.5			107.5			87.7			69.2				75
80	157.3	164.7		170.7	177.1		167.4			123.3			103.8			85.5			68.3				80
85	150.7	154.7		163.5	171.2		165	161		118.5			100			83.2			67.2				85
90	145.1	146.3		157.4	162.7		161	159.3		113.9	114.2		96.4			80.8			65.9				90
95	140.4	139.3		152.4	154.4		156.4	157.5		109.5	108.5		92.9	91.1		78.2			64.3				95
100	135.8	133.3		145.1	147.4		150.7	154.2		105.6	103.1		89.6	86.9		75.7			62.6				100
105	130.3	128.4	135.5	137	141.4		142	148.4		102	98.2		86.6	82.8		73.4	69.8		60.9				105
110	125.7	124.7	127.3	129.3	136.5	139.5	133.9	142.3		98.7	93.5		83.8	79		71.2	66.8		59.2	55.2			110
115	119.7	121.2	120.7	122.4	132.6	132.9	126.5	136		95.9	89.4		81.3	75.5		69.1	64		57.6	53.1			115
120	108.2	116.7	115.7	116.3	129.3	126.8	119.9	130.7	122.1	93.6	85.7		79.1	72.2		67.2	61.3		56.1	51			120
125		113	111.6		124.4	121.2	113.6	125	116.7	92.1	82.3		77.3	69.1		65.6	58.9		54.7	49.1			125
130		111.2	108.6		118	116.1		119.7	111.7	91.9	79.4	78.1	76.1	66.4		64.3	56.6		53.5	47.3			130
135			104.9		112.3	111.3		114.7	107.1		77	73.5		64.1	62.1			54.4		52.4	45.5		135
140			101.5			106.8		110	102.8		75.2	69.7		62	58.2			52.5			43.8		140
145						102.6			98.8		74.1	66.4		60.3	54.9			50.7	46.9		42.3		145
150						98.7			95			63.7		59.1	52.2			49.2	44.2		40.8		150
155								91.4			61.2			49.8		48	41.8		39.5	34.8			155
160											59.4			47.7				39.8			32.8		160
165											58			45.9				38			31		165
170														44.4				36.4			29.6		170
175																		35			28.2		175
180																		33.8			27		180
185																					25.8		185

* adapter · pièce d'adaptateur

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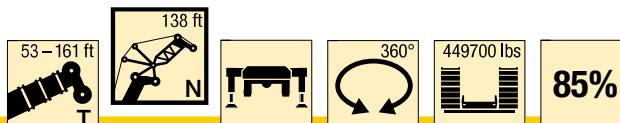
**Lifting capacities
Forces de levage**
TN 126 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*					
	126 ft			126 ft			126 ft			126 ft			126 ft			126 ft			126 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
55	183.6			177																			55	
60	180.2			174.4			157.1																60	
65	176.9			171.8			155.4			128.2			105.4										65	
70	170.7			169.4			153.9			125			103.2			82.3			63.6				70	
75	162.1			167.2			152.5			121.4			100.9			81.4			63.3				75	
80	154.5	161.2		164.6			151.2			117.4			98.2			79.9			63				80	
85	147.7	152.9		159.6	158.2		150			113.3			95.2			78.2			62.1				85	
90	142	144.8		153.5	155.7		148.3	143.6		109.3			92.2			76.4			61.1				90	
95	136.9	137.6		148.3	151.8		146.2	142		105.4	104.4		89.1			74.4			60.1				95	
100	132.7	131.5		143.8	145.2		143.3	140.8		101.8	99.8		86.1			72.2			59				100	
105	127.9	126.2		139	139		140.3	139.7		98.4	95.4		83.3	80.1		70.1			57.6				105	
110	122.9	121.7	127.8	131.3	133.8		135	138.2		95.3	91.5		80.7	76.7		68.1	64.2		56.2				110	
115	118.4	118	120.6	124.2	129.4		127.6	133.7		92.5	87.7		78.3	73.6		66.2	61.8		54.8	50.6			115	
120	114.4	114.7	114.9	117.8	125.7	126.4	120.9	128.5		90	84.1		76.1	70.6		64.3	59.5		53.4	48.8			120	
125	108.1	110.8	110	112.1	122.8	120.8	114.8	123.9	115.9	87.7	80.8		74.1	67.9		62.6	57.2		52	47.2			125	
130	96.5	106.9	106.2	106.6	119.3	115.6	109.3	119.1	110.9	85.8	77.8		72.3	65.2		61.1	55.2		50.7	45.6			130	
135		103.7	103.1	94.2	113.7	110.8	103.6	114.1	106.3	84.7	75.1	73.6	70.8	62.7		59.8	53.2		49.6	44			135	
140		101.9	100.4		108.3	106.4	87.1	109.5	102.1	84.4	72.8	69.6	69.8	60.5		58.7	51.2		48.6	42.4			140	
145			96.8		103.4	102.2		105.2	98.1		70.8	66.2		58.6	54.9	58	49.4		47.8	41			145	
150			93.7			98.4		101.2	94.3		69.3	63.2		56.8	52		47.8			39.6				150
155						94.7			90.8		68.4	60.6		55.3	49.5		46.4	41.5		38.3				155
160						91.2			87.6			58.4		54.3	47.3		45.1	39.4		37.1				160
165									84.4			56.4			45.3			44.1	37.6		36	30.6		165
170									81.4			54.7			43.6				35.9		35.1	29		170
175												53.6			42.1				34.5			27.7		175
180															40.8			33.1			26.4		180	
185															39.8			31.9			25.3		185	
190																		30.8			24.2		190	
195																					23.1		195	

* adapter · pièce d'adaptateur

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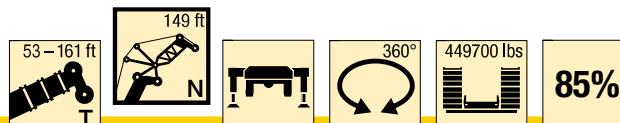
**Lifting capacities
Forces de levage**
TN 138 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*					
	138 ft			138 ft			138 ft			138 ft			138 ft			138 ft			138 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
60	163.6			157.9																		60		
65	160.7			155.6			140.5			117.8												65		
70	158.2			153.5			139.1			116.3			95.7			74.3							70	
75	155			151.5			137.9			113.7			94			73.9			56.7				75	
80	150.5			149.7			136.7			110.8			92.1			73.5			56.4				80	
85	143.9	147.1		147.9			135.6			107.7			89.9			72.8			56.2				85	
90	138.1	142.9		145.4	141.6		134.5			104.4			87.5			71.5			55.9				90	
95	132.6	136.1		142.1	139.7		133.4	128.6		101			85			69.9			55.3				95	
100	128	129.6		138.2	138		132.1	127.4		97.6	96.9		82.4			68.3			54.5				100	
105	124	123.8		134.1	135.3		130	126.4		94.5	93		79.8			66.5			53.7				105	
110	120	118.9		129	130.9		126.8	125.5		91.5	89.3		77.3	74.6		64.8			52.6				110	
115	115.3	114.5	122.1	123.1	126		122.4	124.6		88.8	85.7		74.9	71.6		63	59.7		51.6				115	
120	110.9	110.8	115.4	116.8	121.7		117.2	123.5		86.2	82.3		72.7	68.8		61.2	57.5		50.4	46.6			120	
125	107	107.7	109.6	111	117.9	119.7	112.1	121.4		83.8	79.2		70.7	66.1		59.6	55.4		49.2	45.1			125	
130	103.5	104.5	104.7	105.7	115	114.5	107.2	117.4		81.8	76.3		68.8	63.6		58	53.4		48	43.6			130	
135	98.3	100.9	100.7	100.9	111.6	109.8	102.6	113.4	105.6	79.9	73.5		67.1	61.3		56.6	51.5		46.8	42.1			135	
140	88.9	97.4	97.2	96.5	107.2	105.3	98.3	108.9	101.3	78.3	71	70.4	65.6	59.1		55.3	49.7		45.7	40.7			140	
145	76.6	94.6	94.6	88.2	102.3	101.2	94	104.7	97.3	77.3	68.7	66.8	64.3	56.9		54.1	48		44.7	39.4			145	
150		92.6	92.4		97.8	97.4	83.7	100.7	93.6	77	66.7	63.5	63.5	55	52.3	53.2	46.3		43.9	38.1			150	
155		89			93.7	93.8		96.9	90.1		64.9	60.5	63.1	53.3	49.6	52.6	44.8		43.2	36.9			155	
160		86.1			87.1	90.4		93.3	86.8		63.6	57.9		51.7	47.1		43.4	39.4		35.7			160	
165		84.5				87.2			83.8		62.6	55.6		50.5	44.9		42	37.3		34.6			165	
170						84.2			80.9			53.5		49.5	42.9		40.9	35.5		33.6	28.7		170	
175									78.1			51.8			41.2		39.9	33.9		32.6	27.3		175	
180									75.5			50.4			39.7			32.4			31.7	26		180
185												49.3			38.3			31				24.8		185
190															37.1			29.8				23.6		190
195															36			28.7				22.6		195
200																		27.6				21.6		200
205																					20.6		205	
210																					19.7		210	

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

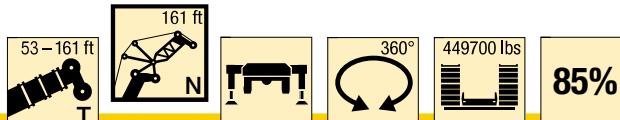
TN 149 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft				
	149 ft			149 ft			149 ft			149 ft			149 ft			149 ft			149 ft							
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
60	148																							60		
65	145.7			140.8			125.8																	65		
70	143.5			139			125.6			105.8			86.9											70		
75	141.5			137.3			124.7			105.4			86.5			67.1								75		
80	139.5			135.7			123.7			103.6			85.7			66.8			51.3					80		
85	137.1			134.1			122.6			101.4			84.2			66.5			51.1					85		
90	132.9	132.1		132.7			121.6			98.9			82.4			66.2			50.8					90		
95	128.6	130		131.1	127.1		120.7			96.3			80.5			65.4			50.7					95		
100	124.3	127.4		128.8	125.5		120	115.5		93.5			78.5			64.2			50.3					100		
105	120.3	122.4		126.5	124		119.4	114.5		90.6	90.3		76.4			62.9			49.8					105		
110	116.5	117.1		123.9	122.8		117.9	113.5		87.9	86.9		74.2			61.5			49.1					110		
115	113.1	112.4		120.5	121.3		116	112.7		85.3	83.5		72.1	69.8		60			48.3					115		
120	109.2	108.3		116.3	118.7		114.5	112.1		82.8	80.4		70	67.1		58.5	55.6		47.6					120		
125	104.7	104.8	110.3	111	115		112.3	111.5		80.6	77.4		68	64.7		57	53.6		46.6	43.2				125		
130	101	101.7	105	105.6	111.5	112.9	107.8	111.2		78.4	74.7		66.1	62.3		55.5	51.7		45.6	42				130		
135	97.6	99.1	100.2	100.7	108.4	109.4	103	110		76.4	72.1		64.4	60.1		54	50		44.6	40.6				135		
140	94.3	96.2	96.2	96.2	105.8	105	98.3	107.4	100.6	74.7	69.6		62.8	58		52.8	48.3		43.5	39.3				140		
145	89.8	92.9	92.8	92	101.8	100.8	94	104.1	96.6	73.2	67.3		61.4	56		51.6	46.6		42.5	38.1				145		
150	82	89.6	89.9	88.2	97.5	97	90	100.1	92.9	71.9	65.1	64.3	60.2	54.1		50.4	45.1		41.6	36.9				150		
155	72.3	87	87.6	82	93.2	93.4	86.3	96.4	89.4	71	63.1	61.1	59.1	52.3		49.4	43.7		40.7	35.7				155		
160		85.1	85.6	70.4	89.3	90	79.3	92.9	86.2	70.6	61.3	58.1	58.4	50.6	47.9	48.6	42.2		40	34.6				160		
165		79.2	82.6		85.7	86.9		89.4	83.1		59.8	55.6	58.1	49.1	45.4	48.1	40.9	37.5		39.3	33.5				165	
170			79.9		82.2	83.9		85.7	80.3		58.6	53.3		47.8	43.2		39.7	35.7		38.8	32.5				170	
175			77.9			81		82.1	77.5		57.7	51.3		46.6	41.3		38.5	33.9		31.5					175	
180						78.3			75		57.5	49.4		45.7	39.5		37.5	32.2		30.5	25.9				180	
185						75.7			72.5			47.9		45.2	38		36.6	30.8		29.7	24.6				185	
190									70.2				46.5			36.6			29.4		28.9	23.3				190
195												45.5			35.4			28.2			22.3	195				
200												44.7			34.3			27.1			21.3	200				
205															33.3			26			20.3	205				
210																		25			19.3	210				
215																		24.1			18.4	215				
220																		17.6			220					

* adapter · pièce d'adaptateur

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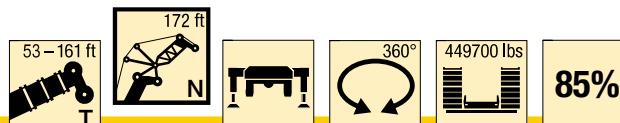
**Lifting capacities
Forces de levage**
TN 161 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			
	161 ft			161 ft			161 ft			161 ft			161 ft			161 ft			161 ft			
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
65	132.4			127.3																		65
70	130.5			126.1			112.8															70
75	128.6			124.6			112.7			95.2			78.4									75
80	126.9			123.2			112.2			94.7			77.9			60.2			46.2			80
85	125.2			121.7			111.2			94			77.5			59.9			46.1			85
90	123.3			120.3			110.3			92.4			76.7			59.6			45.9			90
95	120.4	118.7		119.1			109.4			90.4			75.4			59.4			45.7			95
100	117.2	117		117.9	114.2		108.6			88.3			73.8			59			45.5			100
105	114.1	115.4		116.3	112.9		107.9	103.2		86.1			72.2			58.6			45.4			105
110	111.3	113.4		114.6	111.7		107.4	102.9		83.8	83.2		70.4			57.6			45.1			110
115	108.7	110.1		112.5	110.6		106.5	102.3		81.4	80.7		68.5			56.5			44.6			115
120	105.7	106		110.2	109.6		105.2	101.6		79.1	77.8		66.7	64.8		55.2			43.9			120
125	102.4	102.2		107.8	108.7		103.6	101		76.9	75		64.9	62.5		53.9	51.3		43.4			125
130	98.7	98.8	103	104.5	106.9		101.7	100.4		74.8	72.4		63.2	60.3		52.7	49.7		42.7	39.5		130
135	95	95.8	99.8	99.8	104.7		99.4	100.1		72.8	69.9		61.5	58.2		51.4	48.1		41.8	38.6		135
140	91.6	93.3	95.7	95.2	102	101	96.8	99.7		71.1	67.5		59.9	56.1		50.1	46.4		40.9	37.4		140
145	88.6	90.9	91.6	91	99.3	99.6	93.5	99	91.7	69.5	65.3		58.4	54.2		48.9	44.9		40	36.2		145
150	85.7	87.9	88.2	87.2	96.3	96	89.9	97.7	91.7	68	63.2		57.1	52.4		47.8	43.5		39.2	35.1		150
155	82	85	85.2	83.7	92.3	92.4	86.2	95.3	88.8	66.6	61.2	61.2	55.8	50.7		46.7	42.1		38.3	34		155
160	75.8	82.1	82.8	80.3	88.4	89	82.7	92.3	85.5	65.6	59.4	58.2	54.7	49.1		45.7	40.7		37.4	32.9		160
165	67.8	79.7	80.7	75.8	84.8	85.9	79.4	89	82.5	64.8	57.7	55.5	53.8	47.5	45.6	44.9	39.5		36.7	31.9		165
170	56.8	77.8	79	66.8	81.4	82.9	73.9	85.5	79.6	64.4	56.1	53	53.1	46.1	43.2	44.1	38.3		36	30.9		170
175		74.1	76.2		78.1	80.1		82.1	76.9	64.4	54.7	50.7	52.8	44.7	41.1	43.6	37.1	33.8	35.5	29.9		175
180			73.6		75.1	77.5		78.9	74.3		53.6	48.6		43.6	39.2	43.4	36	32.1	35	29		180
185			71.6			74.9		75.8	71.9		52.8	46.9		42.5	37.5		35	30.5		28.2	24.1	185
190			70.9			72.5			69.6		52.5	45.3		41.7	35.9		34.1	29.1		27.4	22.8	190
195						70.2			67.4			43.9		41.1	34.5		33.3	27.8		26.6	21.6	195
200									65.2			42.6			33.2		32.7	26.6		25.9	20.6	200
205												41.7			32			25.5		25.3	19.6	205
210												40.9			30.9			24.4			18.5	210
215															30			23.4			17.6	215
220																		22.5			16.7	220
225																		21.7			15.8	225
230																		15.1			15.1	230

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TN 172 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			 ft			
	172 ft			172 ft			172 ft			172 ft			172 ft			172 ft			172 ft						
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°				
70	118.9			114.3																			70		
75	117.4			113.5			101.4			86.2													75		
80	115.9			112.3			101.3			86				72.1									80		
85	114.5			111.1			101			86				72.1			56						85		
90	113.2			109.9			100.4			85.6				71.3			55.6						90		
95	111.9			108.9			99.6			84.3				70.1			55.3						95		
100	109.7	107		107.9			98.9			82.7				69			55						100		
105	107.4	105.7		107.1	102.9		98.3			81.1				67.7			54.5						105		
110	105.1	104.4		106	101.9		97.8	93.4		79.3				66.4			53.8						110		
115	102.9	103.3		104.9	101		97.4	93		77.5	75.9			65			53						115		
120	101.1	102.3		103.5	100.1		96.9	92.4		75.6	73.8			63.5			52.1						120		
125	99.3	100		101.9	99.4		96.1	91.9		73.7	71.5			62	59.3		51						125		
130	97.2	97.1		100.7	98.8		95.2	91.4		71.9	69.3			60.5	57.5		50	47					130		
135	94.8	94.2	94.6	99.5	98.1		94.4	91		70.1	67.2			59	55.7		48.9	45.7					135		
140	91.3	91.7	92.5	96.6	97.7		93.6	90.7		68.5	65.1			57.5	53.9		47.8	44.4					140		
145	88.1	89.5	90.2	92.7	96.6	91.4	92.4	90.6		66.9	63.1			56.1	52.2		46.8	43					145		
150	85.2	87.6	87.1	88.9	94.9	90.7	90.4	90.4		65.5	61.3			54.8	50.6		45.7	41.7					150		
155	82.6	85.3	84.1	85.2	92.7	90.1	86.9	90.3	84	64.1	59.6			53.6	49.1		44.7	40.5					155		
160	78.3	82.3	81.6	81.8	89.9	88.8	83.4	89.6	83.6	63	58	56.2		52.5	47.6		43.8	39.3					160		
165	72.8	79.5	79.4	78.4	86.2	85.8	80.1	88.4	82.1	62	56.4	54.2		51.5	46.2		42.9	38.1					165		
170	66.9	77	77.5	73.9	82.7	82.9	76.8	85.7	79.2	61.1	55	52.1		50.6	44.9	41.9	42.1	37					170		
175	60.3	74.8	76	67.5	79.4	80.1	72.4	82.7	76.5	60.6	53.6	50.1		49.9	43.6	40.2	41.4	36					175		
180	52.3	73	74.5	59.8	76.3	77.4	65.8	79.5	73.9	60.4	52.3	48.2		49.4	42.5	38.4	40.8	35	31.1	33	28		180		
185		66.7	71.9		73.5	74.9	56.3	76.4	71.5	60.2	51.2	46.4		49.1	41.4	36.9	40.4	34.1	29.8	32.6	27.2		185		
190		57.4	69.5		70.3	72.5		73.5	69.2		50.3	44.8			40.4	35.3	40.2	33.1	28.5	32.2	26.4	22		190	
195			67.7			70.2		70.5	67.1		49.7	43.3			39.5	34		32.3	27.2		25.7	21		195	
200			66.7				68			65		49.4	42			38.9	32.7		31.5	26.1		25	20		200
205					65.9				63			40.9			38.5	31.6		30.9	25		24.3	19.1		205	
210									61.1			39.9				30.5		30.4	24			23.8	18.1		210
215									59.2			39				29.4			23			23.3	17.2		215
220												38.5				28.5			22				16.4		220
225																27.8			21.2				15.5		225
230																27.2			20.4				14.8		230
235																			19.8				14.1		235
240																						13.4		240	
245																						12.9		245	

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

TN 184 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*					
	184 ft			184 ft			184 ft			184 ft			184 ft			184 ft			184 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
70	107.9																					70		
75	107			102.5			91.5															75		
80	105.7			102.1			91.2			77.7												80		
85	104.4			101.1			91.1			77.6			65.2			50.9						85		
90	103.1			100.1			91			77.6			65.2			50.6			38.7			90		
95	102			99.1			90.7			77.6			65			50.3			38.5			95		
100	100.9			98.2			90			76.8			64			50			38.3			100		
105	99.5	96.5		97.4			89.4			75.6			62.9			49.7			38			105		
110	97.8	95.4		96.6	92.8		88.8			74.3			61.9			49.4			37.8			110		
115	95.8	94.4		95.8	91.9		88.3	83.9		72.8			60.9			49			37.6			115		
120	93.8	93.4		95	91.2		88	84		71.4	69.7		59.7			48.3			37.4			120		
125	92.1	92.5		94.1	90.4		87.6	83.5		69.8	68.2		58.5			47.6			37			125		
130	90.6	91.5		92.7	89.7		87.1	83		68.2	66.3		57.2	54.8		46.8			36.5			130		
135	89.4	90.2		91.4	89.1		86.5	82.6		66.7	64.4		55.9	53.2		45.9	43		36			135		
140	88.3	88.2		90.4	88.6		85.8	82.2		65.1	62.5		54.6	51.7		45.1	42		35.6	32.7		140		
145	86.1	86.1	85.1	89.3	88.2		85.1	82		63.6	60.7		53.3	50.1		44.1	40.9		35.1	32.1		145		
150	83.1	84.1	83.9	86.9	87.8	82.4	84.4	81.8		62.2	59		52.1	48.5		43.2	39.7		34.6	31.3		150		
155	80.3	82.2	82.2	84.2	86.8	81.8	83.7	81.6		60.8	57.3		50.8	47		42.3	38.5		34	30.5		155		
160	77.8	80.6	79.8	80.8	85.6	81.5	82.2	81.6	75.9	59.6	55.7		49.7	45.7		41.3	37.4		33.3	29.6		160		
165	75.4	78.4	77.3	77.6	84.2	81.1	79.9	81.6	75.6	58.5	54.2		48.7	44.3		40.5	36.4		32.7	28.7		165		
170	71.6	75.7	75.1	74.5	81.8	80.8	77	81.1	75.4	57.5	52.7	51		47.8	43.1		39.6	35.3		32	27.9		170	
175	66.8	73.1	73.2	71.6	78.5	79.1	74	80.4	75.1	56.6	51.4	49.1		46.9	41.8		38.9	34.3		31.4	27.1		175	
180	61.8	70.8	71.6	67.9	75.4	76.4	71	79.1	73.4	55.9	50.2	47.2		46.1	40.7	37.7	38.2	33.3		30.7	26.3		180	
185	56.2	68.9	70.4	62.6	72.5	74	66.4	76.5	70.9	55.4	49	45.6		45.4	39.6	36.1	37.5	32.4		30.2	25.6		185	
190	49.6	67.3	69.2	56.3	69.7	71.6	61	73.5	68.6	55.2	47.9	43.9		45	38.6	34.6	37	31.5	27.7	29.6	24.8		190	
195		62.2	66.7		67.2	69.3	53.9	70.7	66.5	55.2	46.9	42.3		44.8	37.6	33.2	36.6	30.6	26.5	29.2	24.1		195	
200		55.1	64.5		64.8	67.2		68.1	64.4		46.1	40.8		44.8	36.8	31.9	36.4	29.9	25.3	28.9	23.4	19.2		200
205			62.6		57.9	65.1		65.6	62.4		45.5	39.6		36	30.6		29.1	24.2		28.7	22.8	18.3		205
210				61.3		63.2			60.5		45.3	38.4		35.3	29.5		28.5	23.2		22.2	17.4		210	
215					61.3	61.3			58.7		45.3	37.4		34.9	28.4		27.9	22.2		21.6	16.4		215	
220									56.9			36.4		34.8	27.3		27.4	21.2		21.1	15.5		220	
225									55.2			35.6			26.4			20.2			20.7	14.7		225
230												35			25.5			19.4			13.8			230
235												34.7			24.8			18.6			13.1			235
240															24.3			17.9			12.4			240
245																	17.3			11.7			245	
250																				11.1			250	
255																				10.6			255	

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

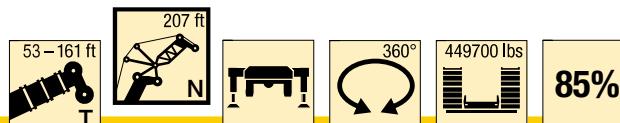
TN 195 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft			
	195 ft			195 ft			195 ft			195 ft			195 ft			195 ft			195 ft						
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
75	96.4																							75	
80	95.9			91.8			82.2																	80	
85	94.9			91.4			82			70.3			59.5											85	
90	93.8			90.9			81.9			70.2			59.5			46.5			35.5					90	
95	92.8			90.1			81.7			70.2			59.4			46.2			35.3					95	
100	91.8			89.3			81.7			70.2			59.1			46			35.1					100	
105	90.9			88.4			81.3			70.1			58.7			45.7			34.8					105	
110	89.9	86.9		87.7			80.8			69.3			58			45.4			34.7					110	
115	88.9	86		87.1	83.7		80.3			68.2			57.1			45.2			34.5					115	
120	87.2	85.2		86.5	83		79.9	75.3		67.1			56.2			44.9			34.3					120	
125	85.5	84.4		86	82.3		79.5	75.3		66	64.4		55.3			44.5			34.1					125	
130	84.1	83.6		85.4	81.7		79.2	75.4		64.7	63.1		54.4			43.9			33.9					130	
135	82.8	83		84.5	81.2		78.8	75.1		63.4	61.6		53.3	51		43.3			33.6					135	
140	81.6	82.3		83.5	80.6		78.5	74.7		62.1	60.1		52.2	49.7		42.5	40		33.2					140	
145	80.7	81.2		82.6	80.2		78.1	74.4		60.8	58.6		51.1	48.4		41.8	39.1		32.8	30.3				145	
150	79.7	79.6	77.3	81.8	79.8		77.5	74.1		59.5	57		50	47.1		41.1	38.2		32.3	29.7				150	
155	78.1	78.1	76.6	81	79.6		76.9	73.9		58.3	55.4		49	45.7		40.3	37.1		31.9	29				155	
160	76.5	76.8	75.9	80.1	79.2	74.3	76.5	73.8		57	53.9		47.9	44.4		39.5	36.1		31.4	28.3				160	
165	74.2	75.7	75.2	78.3	78.7	73.8	76.2	73.7	68.6	55.9	52.5		46.9	43.2		38.7	35.1		30.9	27.6				165	
170	71.9	74.8	73.8	75.2	78	73.3	75.1	73.7	68.5	54.9	51.1		45.9	42		37.9	34.2		30.4	26.9				170	
175	69.6	72.8	71.7	72.3	77.1	73.2	73.5	73.7	68.2	53.9	49.8	48.5	44.9	40.8		37.1	33.2		29.9	26.1				175	
180	65.9	70.6	69.8	69.6	75.4	73	70.9	73.6	68	53.1	48.6	46.7	44.1	39.8		36.4	32.3		29.3	25.4				180	
185	61.8	68.2	68.2	66.6	73.1	73	68.2	73.4	67.9	52.3	47.5	45	43.4	38.7	36.1	35.7	31.4		28.7	24.7				185	
190	57.4	66	66.8	62.7	70.4	71.7	65.4	73	67.9	51.7	46.4	43.5	42.7	37.7	34.7	35.1	30.6		28.2	24				190	
195	52.7	64.2	65.7	58.2	67.7	69.4	61.5	70.5	66.2	51.3	45.4	42	42.1	36.8	33.3	34.6	29.7	26.4	27.7	23.3				195	
200	47.3	62.4	64.8	52.9	65.3	67.3	57.1	67.8	64.2	51.1	44.5	40.6	41.7	35.8	32	34.1	29	25.2	27.2	22.6				200	
205		58.4	62.7	46.2	62.9	65.2	51.4	65.3	62.2	51.1	43.7	39.2	41.5	35	30.8	33.8	28.2	24.2	26.8	22	18.1			205	
210		52.7	60.6		60.6	63.3		63	60.3	49.7	43	38	41.5	34.3	29.6	33.5	27.6	23.1	26.5	21.4	17.2				210
215			58.8		55.2	61.4		60.8	58.5		42.4	36.8		33.6	28.5		26.9	22.1	26.3	20.8	16.4				215
220			57.4			59.6		57.1	56.8		42.1	35.8		33	27.5		26.3	21.2		20.3	15.5				220
225						57.9			55.2		42.1	34.8		32.6	26.5		25.7	20.2		19.8	14.6				225
230									53.6			33.9		32.4	25.5		25.3	19.3		19.3	13.8				230
235									52			33.1			24.7		25	18.4		18.9	13				235
240												32.5			23.9			17.7		18.6	12.3				240
245												32.3			23.1			16.9			11.6				245
250															22.6			16.3			11				250
255																		15.7			10.4				255
260																		15.2			9.9				260
265																		9.4			9.4				265

* adapter · pièce d'adaptateur

t_198_006_01101_00_000



**Lifting capacities
Forces de levage**
TN 207 ft


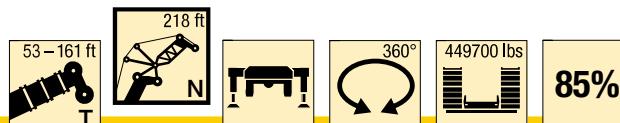
 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*									
	207 ft			207 ft			207 ft			207 ft			207 ft			207 ft			207 ft									
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°				
80	86.5			82.8																					80			
85	86.1			82.4			74			63.6															85			
90	85.4			82.1			73.8			63.4				53.9											90			
95	84.5			81.8			73.6			63.4				53.8			42								95			
100	83.6			81.3			73.5			63.3				53.7			41.8								100			
105	82.8			80.5			73.3			63.2				53.5			41.5								105			
110	82			79.8			73.1			63.1				53.2			41.2								110			
115	81.2	78.5		79.1			72.8			62.7				52.8			41								115			
120	80.5	77.6		78.5	75		72.5			62.2				52.1			40.7								120			
125	79.3	76.9		77.9	74.8		72.1	67.5		61.3				51.4			40.5								125			
130	77.9	76.2		77.2	74.3		71.5	67.5		60.3	58.1			50.5			40.2								130			
135	76.5	75.5		76.6	73.7		70.9	67.6		59.3	57.8			49.7			39.9								135			
140	75.5	74.9		75.7	73.2		70.3	67.6		58.3	56.7			48.9	46.8		39.4								140			
145	74.4	74.4		74.8	72.7		69.6	67.4		57.2	55.4			48	45.8		38.8	36.3							145			
150	73.5	73.8		74	72.3		69	67.1		56.1	54.1			47.1	44.6		38.2	35.7							150			
155	72.7	72.8	69.9	73.2	71.9		68.3	66.8		55	52.8			46.1	43.5		37.5	34.9							155			
160	72	71.7	69.2	72.4	71.6		67.7	66.6		53.9	51.4			45.2	42.4		36.9	34							160			
165	71.3	70.6	68.7	71.6	71.3	67.1	67.1	66.4		52.9	50.1			44.3	41.2		36.2	33.2							165			
170	70.3	69.4	68.2	70.8	70.9	66.6	66.5	66.3		51.8	48.8			43.4	40		35.5	32.3							170			
175	68.2	68.6	67.8	69.6	69.6	70.4	66.2	66	66	61.4	50.8	47.5		42.5	38.9		34.8	31.4							175			
180	65.9	67.8	67.3	68.3	69.8	65.9	65.5	65.6	61.5	49.9	46.4			41.6	37.9		34.1	30.5							180			
185	63.3	66.9	66.1	66	69.1	65.7	65	65.1	61.3	49.1	45.3	43.8		40.8	36.9		33.5	29.7							185			
190	60	65.4	64.5	63.6	68.2	65.6	64.6	64.6	61.2	48.4	44.2	42.3		40.1	35.9	33.6	32.9	28.9							190			
195	56.5	63.2	63	61	66.8	65.6	62.4	64.3	61.1	47.7	43.2	40.8		39.4	35	32.4	32.3	28.1							195			
200	52.8	61.2	61.8	57.7	64.3	65.6	59.8	63.9	61.1	47.2	42.2	39.4		38.9	34.1	31.1	31.7	27.4	24.3						200			
205	48.8	59.5	60.8	53.8	62	64.4	56.5	63.5	60.9	46.8	41.3	38.1		38.4	33.3	29.9	31.2	26.6	23.3	24.8	20.6				205			
210	44.3	57.7	60	49.4	59.8	62.4	52.8	62	59.4	46.6	40.6	36.8		38	32.5	28.8	30.8	25.9	22.3	24.4	20				210			
215	38.1	54	58.5	43.9	57.7	60.6	48.3	59.9	57.6	46.6	39.9	35.7		37.7	31.8	27.7	30.5	25.3	21.3	24	19.5	15.6		215				
220		49.3	56.6		55.8	58.8		57.8	55.9	46.4	39.2	34.6		37.7	31.1	26.7	30.3	24.6	20.4		23.7	18.9	14.9		220			
225			54.8		52	57.1		55.8	54.3		38.8	33.5			30.5	25.6	30.3	24	19.4			23.5	18.4	14.2		225		
230			53.3			55.5		53.2	52.7		38.5	32.6			30	24.6		23.5	18.5			18	13.3			230		
235			49.8			53.9			51.2		38.4	31.6			29.6	23.6		23.1	17.6			17.5	12.5			235		
240						52.4			49.8			30.7			29.4	22.7		22.7	16.7			17.1	11.8			240		
245									48.4			30				21.9		22.4	15.9			16.7	11.1			245		
250									47			29.4				21.2			15.2			16.4	10.4			250		
255												29.1				20.5			14.6				9.8				255	
260																20			14					9.2				260
265																19.6			13.4					8.8				265
270																			12.9					8.3				270
275																						7.9				275		
280																						7.6				280		

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

TN 218 ft


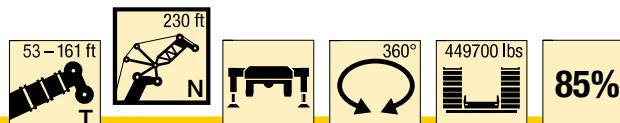
 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*				
	218 ft			218 ft			218 ft			218 ft			218 ft			218 ft			218 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
80	78.4																					80	
85	78			74.7			67.2															85	
90	77.6			74.3			67			57.9												90	
95	77.2			74			66.7			57.7			48.9			38.3						95	
100	76.6			73.7			66.5			57.6			48.9			38.1			28.4			100	
105	75.7			73.4			66.3			57.5			48.8			37.8			28.2			105	
110	75			72.9			66.2			57.4			48.7			37.6			28			110	
115	74.2			72.3			66.1			57.4			48.4			37.3			27.8			115	
120	73.6	70.9		71.7			66			57.2			48			37.1			27.6			120	
125	73	70.4		71.2	67.5		65.7			57			47.6			36.9			27.5			125	
130	72.1	69.7		70.6	67.4		65.3	60.9		56.3			47.1			36.7			27.3			130	
135	71	69.1		70.1	67.2		64.8	60.8		55.5	52.7		46.4			36.5			27.2			135	
140	69.9	68.5		69.5	66.8		64.3	60.8		54.6	52.7		45.7			36.3			27.1			140	
145	68.9	68		68.9	66.3		63.8	60.8		53.8	52.3		44.9	43.1		36.1			27			145	
150	67.9	67.5		68.2	65.9		63.2	60.8		52.9	51.3		44.1	42.2		35.5	33		26.8			150	
155	67	67		67.5	65.5		62.7	60.8		52	50.2		43.3	41.3		35	32.7		26.6	24		155	
160	66.3	66.4		66.8	65.2		62.1	60.6		51.1	49		42.6	40.3		34.5	32		26.4	24		160	
165	65.7	65.7	62.9	66.2	64.9		61.6	60.3		50.2	48		41.8	39.3		33.8	31.2		26.1	23.9		165	
170	65.2	64.9	62.3	65.6	64.7	60.8	61.1	60.2		49.3	46.8		41	38.3		33.2	30.5		25.8	23.3		170	
175	64.9	63.9	61.9	65	64.4	60.4	60.7	60		48.3	45.7		40.2	37.3		32.6	29.8		25.5	22.7		175	
180	64	63	61.5	64.4	64.2	60	60.2	59.9	55	47.5	44.6		39.4	36.3		32.1	29		25.1	22.2		180	
185	62.5	62.2	61.3	63.6	63.8	59.8	59.8	59.6	55.3	46.6	43.5		38.7	35.3		31.5	28.2		24.8	21.7		185	
190	60.5	61.6	60.9	62.7	63.4	59.5	59.5	59.3	55.5	45.9	42.5	41.2	37.9	34.4		30.9	27.5		24.4	21.2		190	
195	57.9	61.3	60.4	60.6	62.9	59.4	59.2	59	55.4	45.2	41.5	39.8	37.3	33.5		30.3	26.7		24	20.6		195	
200	55.1	60.3	59.6	58.5	62.5	59.3	58.8	58.6	55.3	44.5	40.6	38.5	36.6	32.7	30.3	29.8	26		23.5	20		200	
205	52	58.6	58.5	56.1	61.3	59.3	57.1	58.4	55.2	43.9	39.7	37.3	36	31.9	29.2	29.3	25.3		23.1	19.4		205	
210	48.8	56.8	57.4	53.2	59.1	59.3	54.8	58.2	55.2	43.5	38.9	36.1	35.5	31.1	28.1	28.8	24.6	21.6	22.7	18.9		210	
215	45.3	55.1	56.5	49.9	57.1	59.3	52	58	55.2	43.2	38.2	35	35.1	30.4	27	28.3	24	20.7	22.3	18.3		215	
220	41.5	53.3	55.8	46.1	55.1	58.2	48.9	56.9	55.1	43	37.5	33.9	34.7	29.6	26	27.9	23.3	19.8	21.9	17.8	14.3	220	
225	36.9	50.2	54.9	41.6	53.2	56.5	45.2	55.1	53.7	43	36.8	32.9	34.5	29	25.1	27.6	22.8	19	21.6	17.3	13.6	225	
230	46.3	53		51.5	54.9		53.2	52.1	42.7	36.3	31.9	34.5	28.4	24.1	27.5	22.2	18.1	21.3	16.8	12.9		230	
235	40.8	51.2		48.7	53.3		51.5	50.6		35.9	31	34.5	27.9	23.1	27.4	21.7	17.1	21.2	16.4	12.1		235	
240		49.7			51.8		49.6	49.2		35.6	30.1		27.4	22.1		21.3	16.3		15.9	11.3		240	
245		47.9			50.4		44.5	47.8		35.5	29.2		27	21.2		20.8	15.5		15.5	10.6		245	
250					49			46.5		35.5	28.4		26.8	20.4		20.5	14.7		15.1	9.9		250	
255								45.2			27.7			19.7		20.2	13.9		14.8	9.3		255	
260								44			27.1			19			13.2			14.6	8.7		260
265											26.7			18.4			12.7				8.2		265
270																17.9			12.1			270	
275																17.5			11.6			275	
280																			11.1			280	
285																			6.6			285	
290																			6.2			290	

* adapter · pièce d'adaptateur

t_198_006_01301_00_000



Lifting capacities Forces de levage

TN 230 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft		
	230 ft			230 ft			230 ft			230 ft			230 ft			230 ft			230 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°
85	70.6																							85
90	70.2			67.3			60.8																	90
95	69.8			66.9			60.5			52.3			44.3											95
100	69.4			66.6			60.3			52.2			44.2			34.5			25.2					100
105	69.1			66.3			60.1			52			44.1			34.3			25.3					105
110	68.5			66.1			60			51.9			44.1			34			25.2					110
115	67.8			65.7			59.8			51.8			44			33.8			25					115
120	67.2			65.3			59.7			51.8			43.8			33.6			24.8					120
125	66.5	63.7		64.8			59.6			51.7			43.5			33.4			24.7					125
130	66	63.5		64.3	60.7		59.4			51.7			43.2			33.2			24.6					130
135	65.3	63.1		63.9	60.5		59.1	54.9		51.2			42.9			33			24.4					135
140	64.4	62.5		63.4	60.4		58.6	54.9		50.7	47.5		42.3			32.8			24.3					140
145	63.6	62		62.9	60.3		58.1	54.9		50	47.5		41.7			32.6			24.2					145
150	62.7	61.5		62.4	60		57.5	54.9		49.3	47.4		41.1	39.2		32.5			24.1					150
155	61.9	61		61.8	59.6		56.9	54.9		48.5	47.1		40.4	38.6		32.1	29.5		24					155
160	61	60.6		61.1	59.2		56.4	54.9		47.7	46.2		39.8	37.8		31.7	29.4		23.8	21.2				160
165	60.3	60.2		60.5	58.9		55.9	54.8		46.9	45.2		39.1	36.9		31.3	29.1		23.6	21.2				165
170	59.7	59.7	56.9	59.9	58.6		55.4	54.6		46.1	44.2		38.4	36		30.8	28.4		23.4	21.2				170
175	59.1	59.2	56.4	59.3	58.4		54.9	54.4		45.3	43.2		37.7	35.2		30.2	27.7		23.1	20.9				175
180	58.8	58.5	56	58.7	58.2	54.5	54.4	54.1		44.6	42.3		37	34.3		29.7	27		22.9	20.5				180
185	58.5	57.6	55.6	58.2	57.8	54.2	54	53.9	49.4	43.8	41.3		36.3	33.5		29.2	26.5		22.6	19.9				185
190	57.8	56.9	55.2	57.6	57.5	54	53.5	53.5	49.6	43.1	40.3		35.6	32.6		28.8	25.8		22.2	19.5				190
195	56.9	56.3	55.1	57.1	57.1	53.8	53.1	53.1	49.8	42.4	39.4	38.3	35	31.7		28.2	25		21.8	19.1				195
200	55.2	55.8	55	56.5	56.7	53.6	52.7	52.7	50	41.7	38.5	37.1	34.3	30.9		27.7	24.4		21.5	18.5				200
205	52.8	55.5	54.8	55.3	56.2	53.4	52.3	52.4	49.9	41.1	37.6	35.9	33.7	30.1	28	27.2	23.7		21.2	18				205
210	50.3	54.9	54.4	53.6	55.8	53.3	52	52	49.9	40.5	36.9	34.7	33.1	29.4	26.9	26.7	23		20.8	17.4				210
215	47.7	54.1	53.8	51.3	55	53.3	51.6	51.7	49.9	40.1	36.1	33.6	32.6	28.7	25.9	26.2	22.4	19.6	20.5	16.9				215
220	44.9	52.5	53	48.7	54	53.3	49.8	51.4	49.9	39.7	35.4	32.6	32.2	28	24.9	25.8	21.8	18.8	20.1	16.4				220
225	41.9	50.7	52.2	45.9	52.3	53.3	47.4	51.2	49.9	39.4	34.7	31.6	31.8	27.3	24	25.4	21.3	18	19.8	15.9	12.6			225
230	38.5	49	51.7	42.8	50.5	53.3	44.8	51.1	49.9	39.2	34.1	30.6	31.4	26.7	23.1	25.1	20.7	17.1	19.4	15.5	12			230
235	34.5	46.4	50.7	38.9	48.9	52.5	41.6	51	49.8	39.2	33.5	29.7	31.3	26.1	22.2	24.8	20.2	16.3	19.1	15	11.3			235
240	43.1	49.2		47.3	51		37.7	49.8	48.7	39	33.1	28.9	31.2	25.6	21.3	24.6	19.7	15.5	18.9	14.6	10.5			240
245		38.8	47.6		45.2	49.6		48.2	47.3	36.3	32.7	28	31.2	25.1	20.3	24.6	19.2	14.6	18.7	14.1	9.8			245
250			46.1		41.1	48.2		45.8	46		32.5	27.1		24.7	19.5		18.8	13.8	18.6	13.8	9.1			250
255				44.7			46.8		41.8	44.7		32.4	26.4		24.4	18.7		18.4	13		13.4	8.5		255
260							45.4			43.5		32.4	25.6		24.1	17.9		18.1	12.3		13.1	8		260
265							44.1			42.3		24.9			24.1	17.2		17.8	11.6		12.8	7.5		265
270										41.1		24.4			16.6			17.7	11		12.5	7		270
275												24			16.1			10.4				6.5		275
280												23.9			15.6			9.9				6.1		280
285															15.2			9.5				5.6		285
290																		9.1			5.2		290	
295																		8.8			4.9		295	
300																					4.5		300	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TN 241 ft

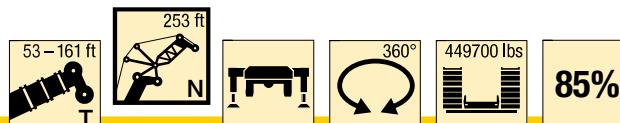

ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft		
	241 ft			241 ft			241 ft			241 ft			241 ft			241 ft			241 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
90	62.9			60.5																			90	
95	62.5			60.1			54.4			47.2													95	
100	62.1			59.7			54.2			47			39.9										100	
105	61.7			59.4			53.9			46.8			39.7			30.8			22.2				105	
110	61.2			59.2			53.7			46.7			39.7			30.6			22.4				110	
115	60.7			58.8			53.5			46.6			39.6			30.4			22.5				115	
120	60.1			58.3			53.3			46.5			39.5			30.2			22.4				120	
125	59.5			57.8			53.2			46.3			39.4			30			22.2				125	
130	59	56.5		57.2			53			46.3			39.3			29.8			22.1				130	
135	58.5	56.3		56.7	54.1		52.7			46.3			39			29.6			22				135	
140	58	56.1		56.2	53.9		52.3	49		46.1			38.7			29.4			21.9				140	
145	57.4	55.8		55.7	53.8		52	48.9		45.8	42.5		38.3			29.3			21.7				145	
150	56.8	55.4		55.1	53.7		51.5	48.8		45.5	42.4		37.9			29.1			21.6				150	
155	56.1	54.9		54.5	53.6		51	48.8		44.8	42.4		37.4	35.4		29			21.5				155	
160	55.5	54.5		54	53.3		50.6	48.8		44.2	42.4		36.8	35.2		28.8	26.3		21.4				160	
165	54.9	54.1		53.5	53		50.1	48.8		43.6	42.1		36.3	34.6		28.6	26.3		21.3	18.7			165	
170	54.3	53.7		53	52.7		49.7	48.8		43	41.5		35.7	33.8		28.5	26.2		21.2	18.7			170	
175	53.8	53.5	50.8	52.5	52.3		49.3	48.8		42.3	40.7		35.1	33.1		28.1	26		21	18.7			175	
180	53.3	53.2	50.6	52.1	52		49	48.7		41.7	39.9		34.5	32.4		27.7	25.4		20.8	18.8			180	
185	52.8	52.8	50.2	51.7	51.5	48.4	48.6	48.4		41	39		33.9	31.7		27.2	24.8		20.6	18.5			185	
190	52.5	52.2	49.8	51.3	51.2	48.5	48.3	48.1		40.4	38.2		33.4	30.9		26.8	24.2		20.3	17.9			190	
195	52.2	51.6	49.5	51	50.9	48.4	48.1	47.9	43.9	39.8	37.4		32.8	30.1		26.3	23.6		20	17.5			195	
200	51.8	51.1	49.3	50.7	50.5	48.2	47.8	47.6	44	39.1	36.5		32.3	29.4		25.8	23.1		19.7	17.1			200	
205	51.4	50.5	49.1	50.4	50.2	48	47.6	47.4	44.2	38.5	35.7	34.5	31.7	28.6		25.4	22.5		19.4	16.7			205	
210	50	50.2	48.9	50.2	50	47.8	47.4	47.2	44.4	38	34.9	33.5	31.1	27.9		25	21.9		19.2	16.3			210	
215	48	49.9	48.8	50	49.7	47.7	47.2	47	44.5	37.4	34.2	32.4	30.6	27.2	25.1	24.6	21.4		18.9	15.8			215	
220	45.9	49.9	48.8	48.6	49.6	47.7	47.1	46.8	44.5	36.9	33.6	31.5	30.1	26.5	24.1	24.2	20.8		18.6	15.3			220	
225	43.7	49.6	48.6	46.6	49.4	47.7	46.8	46.7	44.5	36.5	32.9	30.5	29.6	25.9	23.3	23.8	20.2	17.4	18.3	14.8			225	
230	41.3	48.4	48.1	44.4	49.3	47.7	45.3	46.6	44.5	36.1	32.3	29.6	29.2	25.3	22.4	23.4	19.7	16.7	17.9	14.4			230	
235	38.8	46.8	47.6	42	48.9	47.7	43.4	46.5	44.5	36	31.7	28.7	28.9	24.7	21.6	23.1	19.2	15.9	17.6	14	10.8		235	
240	35.9	45.1	47.2	39.3	47.6	47.7	41.2	46.5	44.5	35.8	31.2	27.8	28.6	24.2	20.7	22.7	18.7	15.2	17.3	13.5	10.2		240	
245	32.5	42.8	46.7	36.1	46	47.7	38.6	46.5	44.5	35.8	30.7	27.1	28.4	23.7	19.9	22.5	18.3	14.5	17.1	13.1	9.5		245	
250	40	45.4	32.1	44.4	47.6		35.3	45.9	44.5	35.8	30.3	26.3	28.4	23.2	19	22.3	17.8	13.8	16.9	12.8	8.8		250	
255	36.7	44		41.9	46.7			44.4	44.1	34	29.9	25.5	28.4	22.7	18.2	22.2	17.4	13	16.7	12.4	8.2		255	
260				42.6			38.4	45.4		42.3	43		29.7	24.7		22.4	17.4	22.2	17	12.3	16.6	12	7.6	260
265				41.4			44.1			39.3	41.8		29.7	24		22.1	16.6		16.7	11.6		11.7	7	265
270							42.7			40.7			29.7	23.3		21.9	15.9		16.3	10.9		11.4	6.4	270
275							41.4			39.6			22.7			21.9	15.3		16.1	10.3		11.1	5.9	275
280										38.5			22.2			14.7			16	9.7		10.9	5.4	280
285										37.4			21.8			14.2			9.2			10.7	4.9	285
290													21.6			13.7			8.8			4.5		290
295																13.4			8.3			4.1		295
300																			8			3.7		300
305																			7.7			3.3		305

* adapter · pièce d'adaptateur

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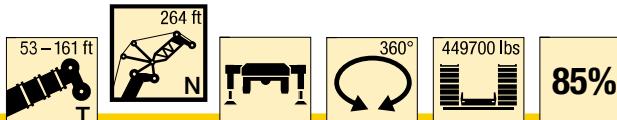
Lifting capacities Forces de levage

TN 253 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft				
	253 ft			253 ft			253 ft			253 ft			253 ft			253 ft			253 ft							
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
95	56.8			54.6			49.4																	95		
100	56.4			54.2			49.1			42.5														100		
105	56			53.9			48.9			42.4				35.9			27.8								105	
110	55.7			53.6			48.7			42.2				35.8			27.7				19.3				110	
115	55.4			53.3			48.5			42.1				35.7			27.5				19.5				115	
120	55.1			53.1			48.3			42				35.6			27.3				19.7				120	
125	54.6			52.8			48.1			41.8				35.5			27.1				19.7				125	
130	54.1			52.4			47.9			41.8				35.5			26.9				19.6				130	
135	53.5	50.9		52			47.8			41.7				35.4			26.7				19.5				135	
140	53.1	50.7		51.6	48.6		47.6			41.6				35.2			26.6				19.4				140	
145	52.6	50.5		51.2	48.5		47.5	44.1		41.6				35			26.4				19.3				145	
150	52.1	50.3		50.8	48.3		47.3	44		41.5	38.2			34.7			26.3				19.2				150	
155	51.6	50.1		50.3	48.2		47	43.9		41.3	38.1			34.3			26.1				19.1				155	
160	51.1	49.7		49.9	48.1		46.6	43.9		40.8	38.1			33.9	31.9		26				19				160	
165	50.6	49.4		49.4	48		46.2	43.8		40.3	38.1			33.4	31.8		25.9	23.4			18.9				165	
170	50.1	49		48.9	47.8		45.9	43.8		39.8	38.1			33	31.4		25.7	23.4			18.8	16.3			170	
175	49.6	48.7		48.5	47.6		45.5	43.8		39.2	37.8			32.5	30.8		25.6	23.4			18.7	16.3			175	
180	49.1	48.4		48	47.3		45.1	43.8		38.7	37.2			32	30.2		25.4	23.3			18.6	16.3			180	
185	48.6	48.1	45.6	47.7	47.1		44.8	43.8		38.1	36.5			31.4	29.5		25	22.9			18.5	16.3			185	
190	48.2	47.9	45.5	47.3	46.9	43.2	44.5	43.8		37.6	35.8			30.9	28.8		24.6	22.4			18.2	16.2			190	
195	47.9	47.5	45.1	46.9	46.7	43.3	44.2	43.7		37	35			30.4	28.2		24.2	21.9			18	15.8			195	
200	47.6	47.2	44.8	46.6	46.5	43.4	43.9	43.6	39.2	36.4	34.3			30	27.6		23.8	21.3			17.8	15.4			200	
205	47.3	46.8	44.6	46.3	46.2	43.4	43.6	43.4	39.3	35.9	33.6			29.5	26.9		23.4	20.9			17.5	15			205	
210	46.9	46.3	44.4	46	45.9	43.2	43.3	43.1	39.4	35.4	33	31.9		29	26.2		22.9	20.4			17.2	14.7			210	
215	46.4	45.9	44.2	45.8	45.7	43.1	43.1	42.8	39.6	34.9	32.3	30.9		28.5	25.5		22.6	19.9			16.9	14.3			215	
220	45.2	45.6	44.1	45.6	45.4	43	42.9	42.6	39.8	34.4	31.5	30		28	24.9	23	22.2	19.3			16.6	13.9			220	
225	43.5	45.4	44	45.3	45.2	42.9	42.6	42.4	40	34	30.9	29.1		27.5	24.2	22.1	21.9	18.8			16.4	13.5			225	
230	41.7	45.3	44	44.1	44.9	42.9	42.5	42.2	40	33.6	30.3	28.2		27.1	23.7	21.2	21.5	18.3	15.7			16.1	13.1			230
235	39.7	45.2	43.9	42.4	44.8	42.9	42.2	42	40	33.2	29.7	27.3		26.6	23.1	20.4	21.2	17.8	14.9			15.9	12.6			235
240	37.6	44.6	43.7	40.6	44.7	42.9	41.2	41.9	40	32.9	29.1	26.6		26.3	22.5	19.7	20.9	17.3	14.3			15.6	12.2	9		240
245	35.4	43.1	43.4	38.5	44.5	42.9	39.6	41.8	40.1	32.6	28.6	25.8		26	22	18.9	20.5	16.8	13.6			15.4	11.9	8.5		245
250	32.9	41.2	43.1	36.2	43.5	42.9	37.7	41.8	40.2	32.5	28.2	25		25.7	21.5	18.1	20.3	16.4	12.9			15.1	11.5	7.9		250
255	30	39.1	43	33.6	42.2	42.9	35.6	41.8	40.3	32.5	27.7	24.3		25.6	21.1	17.3	20	15.9	12.2			14.9	11.1	7.3		255
260	26.3	36.8	42.4	30.3	40.7	42.9	32.9	41.7	40.4	32.5	27.4	23.6		25.5	20.6	16.5	19.8	15.5	11.4			14.7	10.7	6.6		260
265		33.9	41.1		38.7	42.9	29.5	40.8	40.4	31.5	27.1	22.9		25.5	20.2	15.7	19.8	15.2	10.7			14.5	10.4	6		265
270		39.8			35.9	41.8		38.9	39.8		26.9	22.1		25.5	19.9	15	19.8	14.8	10			14.4	10.1	5.4		270
275		38.6			31.5	40.5		36.5	38.7		26.8	21.4		19.7	14.3		14.5	9.4			9.8	4.9			275	
280		35.6			39.2			37.7			26.8	20.8		19.5	13.6		14.2	8.8			9.5	4.3			280	
285					38			36.7			20.2			19.4	13		14	8.4			9.2	3.8			285	
290								35.7			19.7			12.5			13.9	7.9			9	3.3			290	
295									34.7			19.3			12			7.4				8.8				295
300										19.1						11.6				7.1				300		
305																11.2				6.7				305		
310																11				6.4				310		
315																	6.1								315	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TN 264 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft		
	264 ft			264 ft			264 ft			264 ft			264 ft			264 ft			264 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°
95	51.5																							95
100	51.1			49.2			44.6																	100
105	50.7			48.8			44.3			38.4			32.4											105
110	50.4			48.5			44.1			38.2			32.3			25								110
115	50.1			48.2			43.8			38.1			32.2			25								115
120	49.7			47.9			43.6			37.9			32.1			24.8			17					120
125	49.4			47.6			43.4			37.8			32			24.6			17.2					125
130	49			47.4			43.3			37.7			32			24.4			17.3					130
135	48.5			46.9			43.1			37.6			31.9			24.3			17.4					135
140	47.9	45.7		46.5			42.9			37.5			31.8			24.1			17.3					140
145	47.2	45.5		46	43.7		42.7			37.4			31.7			23.9			17.1					145
150	46.6	45.3		45.3	43.5		42.2	39.6		37.3			31.5			23.8			16.9					150
155	45.9	45.1		44.7	43.3		41.7	39.5		37.2	34.3		31.3			23.7			16.8					155
160	45.3	44.9		44.2	43.2		41.2	39.4		37	34.2		31.1			23.5			16.6					160
165	44.7	44.6		43.6	43.1		40.7	39.3		36.7	34.2		30.9	28.7		23.4			16.4					165
170	44.1	44.1		43.1	42.9		40.3	39.3		36.3	34.2		30.5	28.6		23.2	20.8		16.3				170	
175	43.5	43.5		42.5	42.5		39.8	39.2		35.9	34.2		30.1	28.4		23.1	20.8		16.1	14.1			175	
180	42.9	43		42	42		39.3	39.1		35.6	34.2		29.6	28.1		23	20.8		15.9	14.1			180	
185	42.3	42.4		41.4	41.5		38.9	38.9		35.2	33.9		29.2	27.6		22.8	20.8		15.7	14.2			185	
190	41.8	41.9	40.6	40.9	41		38.4	38.5		34.8	33.4		28.8	27		22.6	20.8		15.6	14.2			190	
195	41.2	41.3	40.6	40.4	40.5		37.9	38.1		34.4	32.9		28.4	26.4		22.3	20.4		15.5	14.2			195	
200	40.7	40.8	40.4	39.9	40.1	38.6	37.5	37.7		33.9	32.3		27.9	25.8		22.1	19.9		15.4	14.1			200	
205	40.2	40.3	40	39.4	39.6	38.6	37.1	37.3	34.9	33.5	31.7		27.4	25.2		21.7	19.4		15.3	13.7			205	
210	39.8	39.8	39.5	38.9	39.1	38.5	36.7	36.9	34.9	33	31		26.9	24.6		21.3	18.9		15.2	13.4			210	
215	39.3	39.4	39.1	38.5	38.7	38.2	36.4	36.5	35.1	32.5	30.4	29.5	26.5	24		20.9	18.5		15.1	13.1			215	
220	38.9	38.9	38.6	38	38.3	37.8	36	36.2	35.2	32	29.8	28.7	26.1	23.4		20.6	18		15	12.6			220	
225	38.4	38.5	38.2	37.6	37.9	37.5	35.6	35.8	35.2	31.6	29.2	27.8	25.7	22.9	21.1	20.2	17.5		14.9	12.2			225	
230	37.9	38.1	37.9	37.2	37.5	37.1	35.2	35.5	35	31.3	28.6	27.1	25.3	22.3	20.4	19.9	17.1		14.7	11.9			230	
235	37.6	37.7	37.4	36.8	37.1	36.7	34.9	35.2	34.7	30.9	28.1	26.3	25	21.8	19.6	19.6	16.6	14	14.5	11.6			235	
240	37.2	37.3	37	36.5	36.7	36.4	34.6	34.9	34.4	30.6	27.5	25.5	24.6	21.3	18.8	19.4	16.2	13.6	14.2	11.2			240	
245	36.2	37	36.6	36.3	36.4	36.1	34.3	34.6	34.2	30.2	27	24.8	24.2	20.8	18.1	19.1	15.7	13	14	10.9			245	
250	34.6	36.7	36.3	36	36.1	35.7	34.2	34.3	33.9	30	26.6	24.1	23.9	20.3	17.4	18.8	15.3	12.4	13.8	10.5	7.3		250	
255	32.7	36.4	36	35.3	35.9	35.4	34.1	34	33.6	29.8	26.1	23.4	23.6	19.8	16.8	18.5	14.9	11.8	13.6	10.2	6.8		255	
260	30.5	36.3	35.8	33.5	35.7	35.1	33.9	33.8	33.4	29.6	25.7	22.7	23.3	19.4	16.1	18.3	14.6	11.1	13.4	9.8	6.3		260	
265	28.1	35.8	35.7	31.2	35.6	35	32.8	33.7	33.2	29.6	25.3	22.1	23.2	19	15.3	18.1	14.2	10.4	13.1	9.5	5.6		265	
270	25.2	34	35.5	28.4	35.5	34.9	30.6	33.7	33	29.6	25	21.4	23.1	18.6	14.6	17.9	13.8	9.7	12.9	9.2	5		270	
275	31.7	35.5	24.7	35.3	34.7		27.6	33.7	32.8	29.2	24.7	20.7	23.1	18.3	13.9	17.8	13.4	9.1	12.8	8.9	4.4		275	
280	28.5	35.5		33.4	34.7			33.7	32.8		24.5	20	23.1	18	13.2	17.8	13.1	8.5	12.7	8.6	3.9		280	
285		35.5		30.3	34.7			33.5	32.7		24.5	19.4		17.7	12.6		12.9	8	12.7	8.3	3.4		285	
290			33.8		34.7			31	32.7		24.5	18.8		17.6	12		12.6	7.5		8.1			290	
295					34.7				32.7		24.5	18.3		17.5	11.4		12.4	7		7.9			295	
300										32.7		17.9		17.5	10.9		12.2	6.5		7.7			300	
305												17.5		10.4			6.1			7.6			305	
310												17.2		10.1			5.7			310				
315												17.2		9.7			5.3			315				
320														9.5			5			320				
325																4.7			325					
330																4.5			330					

* adapter · pièce d'adaptateur

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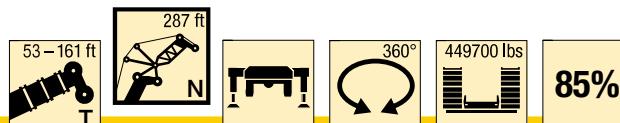
**Lifting capacities
Forces de levage**
TN 276 ft


ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*			ft		
	276 ft			276 ft			276 ft			276 ft			276 ft			276 ft			276 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
100	46.4			44.6																			100	
105	46			44.3			40.1			34.7													105	
110	45.7			44			39.9			34.5						29.3							110	
115	45.3			43.7			39.7			34.3						29.2			22.1				115	
120	45			43.4			39.4			34.2						29.1			22				120	
125	44.7			43.1			39.2			34.1						29			21.9				125	
130	44.4			42.9			39			33.9						28.9			21.8				130	
135	44.1			42.6			38.9			33.8						28.8			21.7				135	
140	43.7			42.3			38.7			33.7						28.7			21.6				140	
145	43.2	41		41.9			38.6			33.6						28.6			21.4				145	
150	42.7	40.8		41.5	39.2		38.3			33.5						28.4			21.3				150	
155	42.1	40.6		40.9	39		38	35.5		33.4						28.2			21.1				155	
160	41.5	40.4		40.4	38.9		37.5	35.4		33.3	30.6					28			21				160	
165	41	40.3		39.9	38.7		37.1	35.3		33.1	30.5					27.8			20.9				165	
170	40.5	40.1		39.4	38.6		36.7	35.2		32.8	30.5					27.6	25.6		20.7				170	
175	39.9	39.7		38.9	38.5		36.3	35.1		32.5	30.5					27.4	25.5		20.6	18.3			175	
180	39.4	39.3		38.4	38.2		35.8	35.1		32.2	30.5					27.1	25.4		20.5	18.3	13	11.8	180	
185	38.8	38.9		37.9	37.9		35.4	35		31.9	30.4					26.8	25.2		20.3	18.3	12.8	11.8	185	
190	38.3	38.4		37.4	37.5		35	34.9		31.5	30.3					26.5	25		20.2	18.2	12.6	11.9	190	
195	37.8	37.9		36.9	37		34.6	34.6		31.2	30.1					26.1	24.5		20	18.2	12.5	11.9	195	
200	37.3	37.3	36.2	36.4	36.6		34.2	34.3		30.9	29.9					25.8	24		19.8	18	12.4	11.9	200	
205	36.8	36.8	36.2	36	36.1	34.4	33.8	33.9		30.6	29.4					25.4	23.4		19.6	17.7	12.4	11.9	205	
210	36.3	36.3	36	35.5	35.7	34.4	33.4	33.6		30.3	28.8					25	22.9		19.4	17.2	12.4	11.8	210	
215	35.8	35.9	35.6	35	35.3	34.4	33	33.2	31	30	28.2					24.5	22.4		19.1	16.8	12.4	11.5	215	
220	35.3	35.4	35.2	34.6	34.8	34.4	32.6	32.9	31.1	29.6	27.7					24.1	21.9		18.7	16.4	12.4	11.2	220	
225	34.8	35	34.8	34.1	34.4	34	32.2	32.5	31.1	29.1	27.1	26.2				23.7	21.4		18.3	16	12.4	10.8	225	
230	34.3	34.5	34.3	33.7	34	33.7	31.8	32.1	31.2	28.7	26.6	25.3				23.3	20.8		18	15.5	12.4	10.5	230	
235	33.9	34.1	33.9	33.2	33.5	33.3	31.4	31.7	31.2	28.3	26.1	24.6				23	20.3	18.6	17.7	15	12.4	10.1	235	
240	33.5	33.6	33.5	32.8	33.1	32.9	31	31.4	30.9	28	25.6	23.9				22.7	19.8	17.8	17.5	14.6	12.4	9.7	240	
245	33.2	33.2	33.1	32.5	32.7	32.6	30.7	31	30.7	27.7	25.1	23.3				22.4	19.3	17.1	17.2	14.2	11.8	12.3	9.4	
250	32.8	32.9	32.7	32.2	32.4	32.2	30.5	30.7	30.5	27.4	24.6	22.6				22.1	18.9	16.5	16.9	13.8	11.1	12.1	9	
255	32.5	32.6	32.3	32	32.1	31.8	30.2	30.4	30.2	27.2	24.2	21.9				21.8	18.5	15.8	16.7	13.4	10.6	11.9	8.7	
260	31.4	32.3	32.1	31.8	31.8	31.5	30	30.1	29.9	27.1	23.8	21.3				21.5	18.1	15.2	16.5	13	10	11.7	8.4	
265	29.8	32.1	31.8	31.4	31.5	31.2	29.9	29.9	29.6	26.9	23.4	20.6				21.2	17.7	14.6	16.2	12.7	9.5	11.5	8.1	
270	28	31.9	31.5	30.5	31.4	31	29.8	29.7	29.3	26.8	23	20				21	17.3	14	16	12.3	8.8	11.3	7.7	
275	25.9	31.8	31.3	28.6	31.2	30.8	29.5	29.6	29.1	26.7	22.7	19.5				20.8	16.9	13.3	15.8	11.9	8.2	11.1	7.4	
280	23.3	31	31.2	26.3	31.1	30.6	28.1	29.5	28.9	26.7	22.4	18.9				20.8	16.6	12.6	15.7	11.6	7.5	10.9	7.2	
285	19.7	29.2	31.1	23.6	31.1	30.5	25.7	29.5	28.8	26.7	22.1	18.3				20.8	16.3	12	15.6	11.4	6.9	10.8	6.9	
290		26.7	31.1		30.7	30.4		29.5	28.7	24.7	21.9	17.6				20.8	16	11.4	15.6	11.1	6.4	10.7	6.6	
295		31.1			28.4	30.4		29.5	28.6		21.9	17				15.8	10.8		10.8	5.8	10.7	6.4	295	
300					30.8			28.7	28.6		21.9	16.5				15.6	10.2		10.6	5.4		6.2	300	
305					27.6			28.6			21.9	16				15.5	9.7		10.4	4.9		6	305	
310												15					8.8			10	4.1		5.7	315
315												14.9					8.5			3.7			5.6	320
320																							325	
325																							330	
330																							330	

* adapter · pièce d'adaptateur

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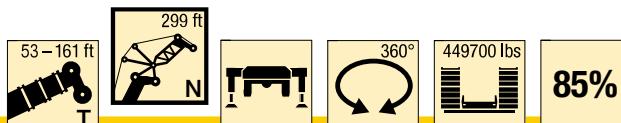
**Lifting capacities
Forces de levage**
TN 287 ft


 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*					
	287 ft			287 ft			287 ft			287 ft			287 ft			287 ft			287 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
105	41			39.7																			105	
110	40.4			39.2			35.8			31.1													110	
115	39.7			38.6			35.5			30.9			26.2			19.5							115	
120	39.1			38			35.2			30.8			26.1			19.6			12.3				120	
125	38.5			37.4			34.8			30.6			26			19.6			12.2				125	
130	37.9			36.9			34.3			30.2			25.9			19.4			12.1				130	
135	37.3			36.3			33.8			29.9			25.8			19.3			12				135	
140	36.7			35.8			33.4			29.5			25.8			19.3			11.9				140	
145	36.2			35.3			32.9			29.2			25.6			19.3			11.7				145	
150	35.7	35.7		34.8			32.5			28.9			25.5			19.1			11.5				150	
155	35.2	35.2		34.3	34.3		32.1			28.5			25.2			19			11.4				155	
160	34.7	34.7		33.9	33.9		31.7	31.4		28.2			25			18.9			11.2				160	
165	34.2	34.2		33.4	33.4		31.3	31.3		27.9	27.4		24.8			18.7			11.1				165	
170	33.8	33.8		33	33		30.9	30.9		27.6	27.3		24.5			18.6			10.9				170	
175	33.4	33.3		32.6	32.6		30.6	30.6		27.4	27.2		24.3	22.9		18.4			10.8				175	
180	32.9	32.9		32.2	32.2		30.2	30.2		27.1	27		24.1	22.8		18.3	16.2		10.6				180	
185	32.5	32.5		31.8	31.8		29.9	29.9		26.8	26.8		23.9	22.7		18.2	16.2		10.5	10			185	
190	32.1	32.1		31.4	31.4		29.5	29.6		26.5	26.5		23.7	22.6		18	16.2		10.4	10			190	
195	31.7	31.7		31	31.1		29.2	29.2		26.3	26.2		23.5	22.5		17.9	16.2		10.2	10			195	
200	31.4	31.3		30.7	30.7		28.9	28.9		26	26		23.3	22.2		17.8	16.1		10.1	10			200	
205	31	31	30.7	30.4	30.4		28.6	28.6		25.8	25.7		23.1	21.9		17.7	16.1		10.1	10			205	
210	30.7	30.6	30.4	30	30.1	29.6	28.3	28.3		25.5	25.5		22.9	21.4		17.5	16		10.1	10			210	
215	30.3	30.3	30	29.7	29.7	29.3	28	28.1		25.3	25.3		22.7	21		17.4	15.6		10.1	10			215	
220	30	30	29.7	29.4	29.4	29	27.7	27.8	27.2	25.1	25.1		22.3	20.5		17.1	15.2		10.1	10			220	
225	29.7	29.7	29.4	29.1	29.2	28.7	27.5	27.5	27	24.9	24.9		22	20		16.9	14.8		10.1	9.8			225	
230	29.4	29.4	29.1	28.9	28.9	28.4	27.3	27.3	26.8	24.7	24.7	23.7	21.7	19.5		16.6	14.4		10.1	9.6			230	
235	29.2	29.1	28.8	28.6	28.6	28.2	27.1	27.1	26.5	24.5	24.4	23.5	21.3	19.1		16.3	14		10.1	9.2			235	
240	29	28.9	28.6	28.4	28.4	27.9	26.9	26.8	26.3	24.3	24	22.9	20.9	18.6	17	16	13.6		10.1	8.8			240	
245	28.8	28.7	28.4	28.2	28.2	27.7	26.7	26.7	26.1	24.1	23.6	22.1	20.6	18.1	16.4	15.8	13.2		10.1	8.5			245	
250	28.7	28.5	28.1	28	28	27.5	26.5	26.5	26	23.9	23.1	21.5	20.3	17.7	15.7	15.5	12.8	10.6		10.1	8.2		250	
255	28.4	28.3	28	27.9	27.8	27.3	26.4	26.3	25.8	23.7	22.7	20.9	20	17.3	15.1	15.3	12.4	10		10.1	7.8		255	
260	28.1	28.2	27.8	27.7	27.6	27.2	26.3	26.2	25.7	23.4	22.2	20.4	19.7	16.9	14.5	15	12	9.5	10.1	7.5	4.7		260	
265	27.7	28.1	27.7	27.4	27.5	27	26.2	26.1	25.5	23.2	21.9	19.9	19.5	16.5	13.9	14.7	11.7	8.9	10.1	7.2	4.3		265	
270	27.1	27.8	27.5	27	27.4	26.9	26.1	26	25.4	23	21.5	19.3	19.3	16.1	13.4	14.4	11.4	8.4	10	6.9	3.8		270	
275	26.7	27.3	27.4	26.6	27.3	26.8	25.8	25.9	25.3	22.6	21.2	18.8	19.1	15.8	12.9	14.3	11	7.9	9.9	6.6			275	
280	25.8	26.8	27.3	26.2	26.9	26.7	25.5	25.8	25.2	22.3	21	18.3	19	15.4	12.3	14.2	10.7	7.3	9.8	6.4			280	
285	24	26.4	26.9	25.8	26.5	26.7	25.1	25.7	25.2	22.1	20.7	17.8	18.9	15.1	11.7	14.1	10.4	6.7	9.6	6.1			285	
290	21.8	26.1	26.6	24.5	26.1	26.5	25	25.5	25.1	21.9	20.5	17.3	18.8	14.8	11.1	14	10.1	6.1	9.5	5.8			290	
295	19.6	25.9	26.1	22	25.8	26.3	24	25.2	25.1	21.8	20.3	16.8	18.8	14.6	10.5	13.9	9.8	5.6	9.4	5.6			295	
300	25	25.8		25.6	26		24.9	25	21.7	20.1	16.2	18.8	14.3	9.9	13.9	9.6	5	9.3	5.4				300	
305		21.9	25.6		25.5	25.6		24.8	25	20	15.7		14.2	9.4	13.9	9.4	4.5	9.3	5.2				305	
310			25.5			25.4		24.8	24.9	20	15.2		14	8.9		9.2	4.1		4.9				310	
315					25.3			24.6		20	14.7		13.9	8.5		9	3.7		4.8				315	
320					25.3			24.5		14.3		13.9	8.1		8.9				4.6				320	
325								24.5			14			7.7		8.8			4.4				325	
330								24.5			13.7			7.3					4.3				330	
335											13.5			7.1									335	
340														6.9										340
345														6.8										345

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TN 299 ft


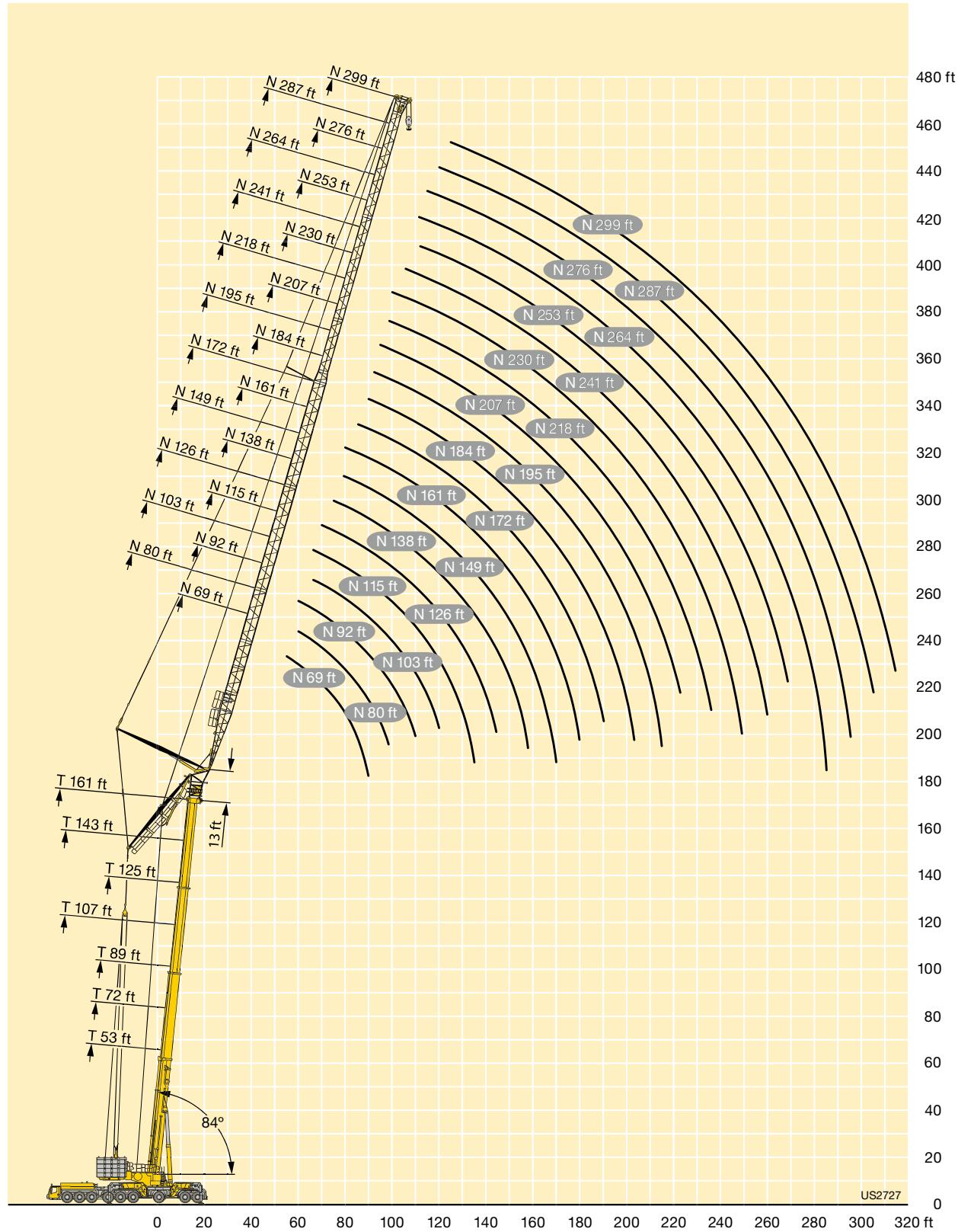
 ft	53 + 13.1 ft*			72 + 13.1 ft*			89 + 13.1 ft*			107 + 13.1 ft*			125 + 13.1 ft*			143 + 13.1 ft*			161 + 13.1 ft*							
	299	ft	84°	299	ft	84°	299	ft	84°	299	ft	84°	299	ft	84°	299	ft	84°	299	ft	84°	299	ft			
105	37.5																							105		
110	37.2			35.7			32.3																	110		
115	36.7			35.4			32.1			27.9			23.5											115		
120	36.2			35.1			31.9			27.7			23.4			16.9								120		
125	35.7			34.7			31.6			27.6			23.3			17								125		
130	35.1			34.2			31.4			27.4			23.2			16.9								130		
135	34.6			33.7			31.1			27.3			23.1			16.8								135		
140	34			33.2			30.8			27.2			23			16.6								140		
145	33.6			32.7			30.4			26.9			22.9			16.6								145		
150	33.1			32.3			30			26.6			22.9			16.5								150		
155	32.6	32.5		31.8			29.7			26.3			22.8			16.4								155		
160	32.1	32.1		31.4	31		29.3			26			22.7			16.2								160		
165	31.7	31.7		31	30.8		28.9	28		25.8			22.6			16								165		
170	31.3	31.3		30.5	30.5		28.6	27.9		25.5	24.4		22.4			15.9								170		
175	30.9	30.9		30.2	30.2		28.2	27.8		25.2	24.3		22.3			15.7								175		
180	30.5	30.5		29.8	29.8		27.9	27.7		25	24.2		22.1	20.2		15.5								180		
185	30.1	30.1		29.4	29.4		27.6	27.5		24.7	24.1		21.9	20.1		15.3	13.9							185		
190	29.8	29.7		29	29.1		27.3	27.3		24.5	24.1		21.7	20		15.2	13.9							190		
195	29.4	29.4		28.7	28.7		27	27		24.2	24		21.5	20		15.1	13.9							195		
200	29	29		28.4	28.4		26.7	26.7		23.9	23.9		21.3	19.9		15	13.9							200		
205	28.7	28.7		28	28.1		26.4	26.4		23.7	23.7		21.1	19.7		14.9	13.9							205		
210	28.3	28.3	28.1	27.7	27.8		26.1	26.1		23.5	23.5		20.9	19.5		14.9	13.9							210		
215	28	28	27.8	27.4	27.5		25.8	25.8		23.2	23.3		20.6	19.1		14.9	13.8							215		
220	27.7	27.7	27.5	27.1	27.2	26.7	25.5	25.6		23	23		20.3	18.8		14.9	13.5							220		
225	27.4	27.4	27.1	26.9	26.9	26.4	25.3	25.3	24	22.7	22.8		20	18.3		14.9	13.2							225		
230	27.2	27.1	26.9	26.6	26.6	26.2	25.1	25.1	24	22.4	22.5		19.7	17.9		14.8	12.8							230		
235	26.9	26.9	26.6	26.4	26.4	25.9	24.8	24.8	24.1	22.1	22.3	20.8	19.4	17.4		14.5	12.5							235		
240	26.7	26.6	26.3	26.1	26.1	25.7	24.7	24.7	24	21.9	22.1	20.9	19.1	17		14.3	12.1							240		
245	26.4	26.4	26.1	25.9	25.9	25.5	24.4	24.4	24	21.6	21.7	20.6	18.8	16.5	15	14	11.7							245		
250	26.2	26.2	25.9	25.6	25.7	25.3	24.2	24.2	23.8	21.4	21.3	20.1	18.5	16.1	14.5	13.8	11.3							250		
255	25.9	25.9	25.7	25.4	25.5	25.1	23.9	24	23.6	21.2	20.9	19.5	18.1	15.6	13.8	13.6	10.9	8.7						255		
260	25.6	25.7	25.5	25.1	25.2	24.9	23.7	23.8	23.5	20.9	20.5	18.9	17.9	15.2	13.3	13.3	10.5	8.3						260		
265	25.4	25.4	25.2	24.8	25	24.7	23.4	23.6	23.3	20.7	20.1	18.4	17.7	14.8	12.7	13.1	10.2	7.8						265		
270	25.1	25.2	24.9	24.6	24.7	24.5	23.3	23.4	23.1	20.5	19.7	17.8	17.4	14.5	12.1	12.9	9.9	7.3						270		
275	25	24.9	24.7	24.4	24.5	24.2	23.1	23.2	22.8	20.3	19.4	17.3	17.2	14.1	11.6	12.6	9.6	6.8						275		
280	24.8	24.7	24.5	24.3	24.3	24	22.9	23	22.7	20.1	19.1	16.8	17	13.8	11.1	12.3	9.2	6.3						280		
285	24.3	24.5	24.3	24.2	24.1	23.8	22.8	22.8	22.5	20	18.8	16.3	16.8	13.5	10.6	12.2	8.9	5.7						285		
290	23.3	24.4	24.1	24	24	23.6	22.7	22.6	22.3	19.9	18.6	15.8	16.7	13.2	10	12	8.7	5.1						290		
295	21.9	24.3	23.9	23.6	23.9	23.4	22.6	22.5	22.1	19.9	18.3	15.4	16.5	12.9	9.4	11.9	8.4	4.5						295		
300	20	24.3	23.8	22.3	23.8	23.3	22.6	22.4	22	19.9	18.1	15	16.5	12.7	8.8	11.8	8.1	4						300		
305	17.8	24.2	23.7	20.3	23.7	23.2	21.8	22.3	21.9	19.9	17.9	14.5	16.5	12.4	8.3	11.8	7.9	3.5						305		
310	22.9	23.7		23.7	23.2	19.9	22.3	21.8	19.9	17.8	14	16.5	12.2	7.8	11.8	7.6								310		
315		23.7		23.7	23.1		22.3	21.7		17.8	13.5		16.5	12	7.3	11.8	7.4								315	
320		23.7		21.7	23.1		22.3	21.7		17.8	13		11.9	6.8		7.3								320		
325		23.6			23.1			21.7			17.8	12.6		11.8	6.4		7.1								325	
330					23.1			21.7			17.8	12.2		11.8	6		7								330	
335								21.7				11.9			5.7		6.9								335	
340								21.7				11.7			5.4										340	
345												11.5			5.1										345	
350												4.9			4.8										350	
355												4.8														355

* adapter · pièce d'adaptateur

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Lifting heights Hauteurs de levage

TN



**Lifting capacities
Forces de levage**
TYVEN 69 ft - 80 ft

			89 - 161 ft			Y			16.4 ft			69 ft			N			360°			449700 lbs			85%		
			T			VE																				
			89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*											
			69 ft			69 ft			69 ft			69 ft			69 ft			69 ft								
45	283.3																								45	
50	269.8					264.7																		50		
55	257					252.9						247.6						237.7							55	
60	244.9					241.3						236.1						228.8							60	
65	233.2					229.5						223.9						218.5							65	
70	222	225.3				215.4						210.4						208.8							70	
75	210.8	212.2				201.9	181					198.5						198							75	
80	195.6	200.5				190.7	168.5					187.3						187.5							80	
85		189.8				181.5	157.3					177.3	153					178.2							85	
90		180.1					148						143.3					170.2	146						90	
95		170.1					139.8						134.8						136.8							95
100		160.7	145.9				133						127.6						129.2							100
105			138.4										121.3						122.4							105
110			131.5										103.1						116.6							110
115			125.2										97.1						92.3							115
120													92						86.5							120
125													87.7						81.7							125
130																			77.6							130
135																			73.3							135
140																			69.9							140
145																									64	145

* adapter · pièce d'adaptateur

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			89 - 161 ft			Y			16.4 ft			69 ft			N			360°			449700 lbs			85%		
			T			VE																				
			89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*											
			69 ft			80 ft			80 ft			80 ft			80 ft			80 ft								
50	258.3											236.4												50		
55	247.5					243.3																		55		
60	237.1					233						227.2						219.9							60	
65	227.2					223.3						217.7						210.8							65	
70	216.8					213.9						208.9						202.1							70	
75	208.1	208.2				202.8						198.5						194.1							75	
80	197.6	199.8				190.9	176					187.4						186.5							80	
85	182.7	189.3				180	162.7					177.5						177.4							85	
90	169.5	179.6				170.7	151.8					168.1	148.9					168.8							90	
95	158	169.8				163.1	142.4					159.9	138.9					160.9	142.2						95	
100		160.7					134.5						130.4					154.1	132.9						100	
105		152.4	137.8				127.4						123.1						125.1							105
110		144.8	131				121.4						116.9						118.4							110
115			124.8				116.3	101.6					111.4						112.4							115
120			119.1				95						106.7						107.2							120
125			113.8				89.6											85.5							125	
130			108.8										85						80.3							130
135													81.1						75.9							135
140																			72.2							140
145																			69.1							145
150																			64.9							150
155																									59.9	155
160																									57.2	160

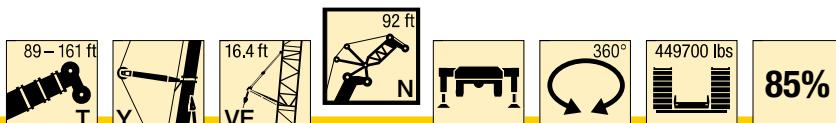
* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

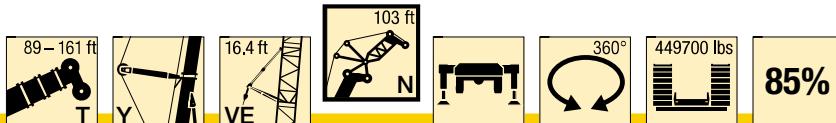
TYVEN 92 ft - 103 ft



ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			ft	
	92 ft			92 ft			92 ft			92 ft			92 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
50	241.2															50	
55	241			236.9												55	
60	233			229			223.7									60	
65	223.2			219.2			214.1			206.7						65	
70	212.8			210.2			205.2			198.5			190.3			70	
75	203.2			200.2			195.6			190.4			182.6			75	
80	195.5	197		189.4			185.2			183			175.3			80	
85	186.8	188		179.4	164		175.6			175.7			168.6			85	
90	174	178.4		169.9	153.2		166.9			167.1			162.1			90	
95	162.1	168.7		161.3	143.5		159	139.9		159.3			156			95	
100	151.7	159.7		154	135.1		151.3	131.2		152.2	134.1		149.8			100	
105		151.4		147.8	127.7		144.4	123.7		145.9	126.3		143.4	125.9		105	
110		143.9			121.4		139	117.2		140.2	119.3		137.6	118.8		110	
115		137	123.6		115.7			111.3				113.1			112.2	115	
120		130.7	117.9		110.7	96.5		106.2			107.6			106.7		120	
125			112.7		106.6	91		101.7			102.8			101.5		125	
130				107.9			86		97.7	81.3		98.4			97	130	
135				103.3			81.6			76.7		94.5			92.9	135	
140					99.1			77.9			72.6			72.9		140	
145							74.6			69.1			69			145	
150										66			65.5			150	
155										63.2			62.5			155	
160												59.8			57.3	160	
165													54.7			165	
170													52.5			170	

* adapter · pièce d'adaptateur

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ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			ft	
	103 ft			103 ft			103 ft			103 ft			103 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
55	216.9				211.3											55	
60	214.2															60	
65	210.5			207.9			204.2			197.9						65	
70	206.8			203.8			197.9			191.6			184.2			70	
75	199.1			196.2			190.2			184.2			176.9			75	
80	190.2			188.1			183			177.2			170.2			80	
85	182.7	182.5		178.5			176.2			170.7			164			85	
90	174.4	177.3		169.7	158		167.7			164.6			158.1			90	
95	162.9	168.4		161.3	147.8		159.6			158.8			152.3			95	
100	152.4	159.4		153.4	138.5		152.5	138.2		152.4			146.6			100	
105	143	151.1		146.2	130.2		146.1	129.5		145.7	132.4		141.6			105	
110	134.7	143.7		139.4	123.1		139.9	122.2		139.7	124.4		136.7	123.2		110	
115	127.3	136.9		131.8	116.9		134.2	115.7		134.2	117.5		131.3	115.5		115	
120	130.6	117.5		124.8	111.3		129.1	109.8		129.3	111.3		126.2	109.3		120	
125	124.8	112.3		106.2				104.7			105.7			121.6	103.6		125
130	119.5	107.5		102				100.1			100.9				98.5		130
				103.1			98.2	84.1		96	82.2		96.4			94	135
				98.9				79.6		92.5	77.6		92.6			89.9	140
								75.7			73.1		89	73.4		86.4	145
								72.4			69.4		69		83		150
								69.4			66.3			65.4		62.6	155
								66.8			63.3			62.2		59.1	160
											60.8			59.4		56	165
													56.9		53.3	170	
													54.8		51	175	
													48.9			48.9	180

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

TYVEN 115 ft - 126 ft

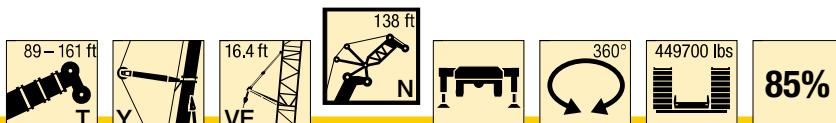
		89 - 161 ft			16.4 ft			115 ft			360°			449700 lbs			85%					
		T			Y			VE			N											
		89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*								
		115 ft			115 ft			115 ft			115 ft			115 ft								
		84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
60		192.9																				
65		191.1			188.3			184.1														
70		188.3			185.7			182.6						177.1								
75		185.5			183.2			180.2						175.1			168.9					
80		182.6			180.5			175.9						171.4			164.4					
85		177.1			175.8			169.6						165.3			158.5					
90	170.9	165.8			167.9			163.8						159.6			153.1					
95	162.9	162.3			159.9	153.2		158.1						154.2			147.9					
100	152.3	157.8			152.5	142.8		152.6						149.1			142.9					
105	142.8	150.4			145.7	133.2		146.3	136.9					144.2			137.7					
110	134.5	143			139	125.4		140.2	128.5					138.5	128.6		133.2					
115	127	136.2			131.7	118.4		134.4	120.9					132.9	120.6		129.1	120.1				
120	120.3	130			124.5	112.5		128.2	114.4					127.7	113.6		124.8	112.6				
125	114.3	124.2	111.4	118	106.9			121.3	108.6					122.9	107.7		120.3	106.1				
130		118.9	106.7	112.2	102.1			115.2	103.4					118.7	102.5		115.8	100.6				
135		114	102.2		97.9	87.8			98.9					114.3	97.6		111.9	95.7				
140		109.4	98.1		94	82.2			94.6						93.2			91.1				
145			94.3		90.6	77.5			91	78.5					89.3			87				
150			90.7		87.9	73.5			87.7	73.7					85.8			83.4				
155			87.3			69.9			84.9	69.7					82.5	67.9		80.2				
160			84.1			66.9				66.2						64			77.1			
165						64.2				63.3						60.7			58			
170						61.8				60.6						57.8			54.8			
175										58.2						55.3			52			
180										56						52.8			49.6			
185															50.8			47.4				
190																45.4						

* adapter · pièce d'adaptateur

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* adapter · pièce d'adaptateur

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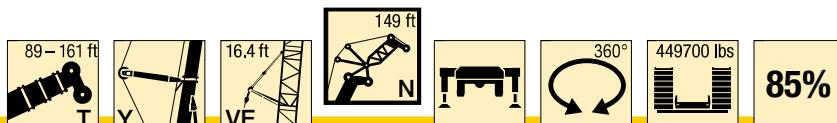
**Lifting capacities
Forces de levage**
TYVEN 138 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
65	153.8															65
70	154.6			152.3												70
75	153.3			151.3			148.8			143.4						75
80	151.6			149.7			147.3			143			137.8			80
85	149.8			148			145.7			141.7			136.8			85
90	148.1			146.4			144.3			140.4			135.7			90
95	146.3			145.1			143			139.2			134.7			95
100	143.8	138.9		143.2			141.8			138.2			133.1			100
105	139.6	137.5		140.5	135.9		139.7			137			130.2			105
110	134.3	136.3		135.8	133.2		135.3			132.7			126.1			110
115	127.7	134.6		130.4	127.8		131.1	126.8		128.6			122.4			115
120	120.9	128.7		124.1	121.5		126.6	121		124.7	117.4		118.8			120
125	114.7	122.9		118.2	115.2		120.7	115.6		120.9	112.4		115.4	108.4		125
130	109	117.7		112.6	109.7		115.1	110.2		117.2	107.5		112.3	104.1		130
135	103.8	112.8		107.4	104.6		109.8	105		112.9	103		109.4	99.7		135
140	99.1	108.2	96.6	102.5	100.1		104.7	100.3		107.8	98.1		106.6	95.7		140
145	94.8	104	92.8	98	95.9		100.1	96		103	93.8		103.2	91.4		145
150	89.2	100	89.2	93.8	92.2	82.7	95.8	92		98.5	89.8		99.9	87.3		150
155		96.3	85.9		88.7	77.9	91.8	88.3		94.4	86		96.8	83.5		155
160		92.8	82.7		85.7	74		85.1	73.2		82.7		93	80.1		160
165		89.5	79.8		83	70.5		82.3	69.4		79.6	66.6		77		165
170			77		80.6	67.3		79.6	65.9		76.8	62.9		74.1		170
175			74.4			64.4		77.3	63		74.2	59.7		71.5	56.6	175
180			71.9			61.9			60.3		72	56.7		69	53.5	180
185			69.5			59.7			57.8			54.2		66.8	50.8	185
190						57.7			55.5			51.9		48.3	48.3	190
195						56			53.6			49.8		46.2	46.2	195
200									51.9			47.9		44.2	44.2	200
205												46.2		42.4	42.4	205
210												44.6		40.8	40.8	210
215														39.3	215	

* adapter · pièce d'adaptateur

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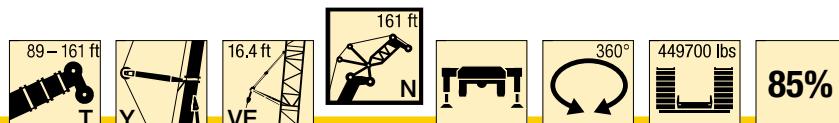
J


**Lifting capacities
Forces de levage**
TYVEN 149 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
70	136.1															70
75	137.5			137.6			135									75
80	137.4			136.1			133.9			129.6						80
85	136.1			134.6			132.5			128.5			124			85
90	134.6			133.2			131.2			127.3			123.1			90
95	133.2			132			130			126.2			122.1			95
100	132			130.8			128.9			125.3			121.3			100
105	131.1	124.9		129.9			127.9			124.4			120.5			105
110	129.7	123.8		129.1	122.3		127.2			123.6			119.5			110
115	127.2	122.7		127.6	121.5		126.5	119.3		122.9			117.9			115
120	121.1	121.8		124.1	120.5		122.6	117.5		121.8			114.9			120
125	114.8	121		117.9	118.6		118.7	114.7		118.6	110.4		111.6			125
130	109.1	117.4		111.9	113.5		114.4	110.2		115.2	106.1		108.7	102		130
135	103.8	112.5		106.3	108.7		108.9	105.6		111.6	102.1		105.9	98.2		135
140	98.9	108		101.3	104.3		103.7	101.3		107.3	98.1		103.4	94.6		140
145	94.6	103.7	92.4	96.7	100.2		99	97.3		102.5	94.2		101.1	91.1		145
150	90.5	99.8	88.8	92.5	96.4		94.5	93.6		97.8	90.6		98.6	87.6		150
155	86.7	96.1	85.5	88.6	92.8	80.6	90.5	90.1		93.5	86.8		95.6	84.3		155
160	83.1	92.6	82.4	84.9	89.5	77.6	86.7	86.8		89.5	83.2		92.1	81		160
165	89.3	79.5	80.1	86.3	74.9		83.1	83.7	71	85.8	79.8		88.2	77.6		165
170		86.2	76.7		83.3	72.2		80.8	68.4	82.3	76.8		84.6	74.6		170
175		83.3	74.1		80.5	69.7		78	66.1		74	61.6		71.7		175
180		80.5	71.6		77.8	67.2		75.4	63.8		71.5	58.2		69.1		180
185			69.3		75.2	64.4		73	61.7		69.2	55.3		66.6	52.4	185
190			67			62.1			59.4		67.1	52.7		64.4	49.6	190
195			64.9			59.9			57.1			50.4		62.4	47.1	195
200			62.8			57.8			55			48.3			44.9	200
205						56.3			53.2			46.4			42.9	205
210									51.5			44.6			41.1	210
215												43			39.5	215
220												41.5			37.9	220
225												36.5			36.5	225

* adapter · pièce d'adaptateur

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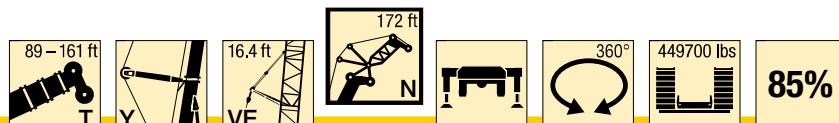
**Lifting capacities
Forces de levage**
TYVEN 161 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft	
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
75	121.2			122.9												75	
80	122			122.9			121.3									80	
85	122.6			122.6			120.7			116.8			112.3			85	
90	122.2			121.4			119.5			116.1			112.2			90	
95	121.1			120.2			118.4			115.1			111.4			95	
100	120			119.1			117.3			114.2			110.6			100	
105	118.9			118.1			116.3			113.3			109.8			105	
110	118	112.5		117.1			115.5			112.5			109.2			110	
115	116.7	111.5		116	110.7		114.6			111.8			108.6			115	
120	114.1	110.6		113.9	109.8		113.3	106.7		111.1			107.9			120	
125	111.2	109.8		111.4	109		111.3	107		110.3			106.5			125	
130	107.8	109.1		108.4	108.1		109	106.3		108.6	102.8		104.6			130	
135	103.9	108.5		105	106		106	104.3		106.7	100.5		102.1	96.5		135	
140	99.1	107		101	103.6		102.7	100.6		103.7	96.8		99.6	93.1		140	
145	94.6	103.1		96.5	99.9		98.8	96.8		100.7	93.4		97.2	89.8		145	
150	90.5	99.2		92.1	96.1		94.5	93.1		97.3	90.2		95	86.7		150	
155	86.7	95.5	84.8	88.2	92.5		90.3	89.6		93.1	86.8		93	83.8		155	
160	83.1	92	81.7	84.6	89.1	77.1	86.5	86.3		89	83.7		91.1	80.9		160	
165	79.7	88.8	78.8	81.2	85.9	74.3	82.9	83.2		85.4	80.7		87.8	78		165	
170	76.6	85.7	76	77.9	82.9	71.7	79.6	80.3	67.8	81.9	77.8		84.2	75.3		170	
175		82.8	73.4	74	80.1	69.2	76.4	77.6	65.4	78.6	75.2		80.8	72.7		175	
180		80.1	70.9		77.4	66.9	72.3	75	63.2	75.5	72.6	59.8	77.5	70.2		180	
185		77.3	68.6		74.9	64.6		72.5	61.1		70.2	57.8		67.9			185
190		74.5	66.4		72.5	62.5		70.2	59.1		68	55.9		65.7	52.6		190
195			64.3		70.1	60.5		67.9	57.2		65.8	53.9		63.6	50.6		195
200			62.3			58.6		65.8	55.3		63.7	51.5		61.6	48		200
205			60.3			56.8			53.6		61.7	49.4		59.7	45.7		205
210						55			52			47.3			43.6		210
215						53.4			50.4			45.5			41.7		215
220									48.8			43.8			40.1		220
225									47.3			42.3			38.4		225
230												40.9			37		230
235															35.7		235
240															34.4		240

* adapter · pièce d'adaptateur

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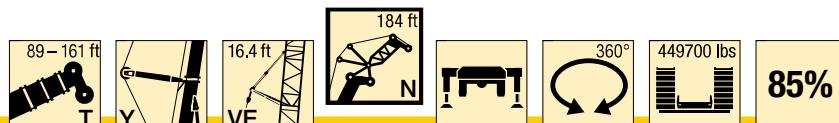

**Lifting capacities
Forces de levage**
TYVEN 172 ft

85%

 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft		
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
75	109.3															75		
80	109.8			113.2												80		
85	110.4			112.2			110.2			107						85		
90	110.8			111.1			109.2			106.3			102.3			90		
95	110.8			110			108.3			105.4			101.7			95		
100	109.9			109.1			107.4			104.6			101			100		
105	109			108.2			106.5			103.8			100.3			105		
110	108.2			107.4			105.8			103.2			99.7			110		
115	107.5	101.7		106.8			105.1			102.6			99.2			115		
120	106.9	101		106.2	100.1		104.6			102			98.8			120		
125	106.2	100.3		105.7	99.4		104.1	97.4		101.6			98.3			125		
130	105.2	99.6		104.6	98.8		103.5	96.8		101.2			98			130		
135	102.9	99.1		103.1	98.2		102.5	96.3		100.6	93.3		97.5			135		
140	99.8	98.6		100.9	97.8		100.9	96		99.7	93.2		95.8	88.7		140		
145	95.6	98.2		97.3	97.5		99	95.3		98.5	92.1		93.7	88.1		145		
150	91.4	98.1		93	95.7		95.3	92.1		97.1	88.9		91.7	85.1		150		
155	87.4	95.2		89.1	92.1		91.1	89.1		93.4	86		89.7	82.3		155		
160	83.8	91.7	81.3	85.3	88.8		87.3	85.9		89.4	83.2		87.9	79.6		160		
165	80.5	88.4	78.4	81.9	85.6		83.7	82.9		85.7	80.5		86.2	77.1		165		
170	77.2	85.4	75.6	78.6	82.6	71.3	80.3	80		82.1	77.7		84.4	74.7		170		
175	74.2	82.5	73	75.5	79.8	68.8	77.1	77.2		78.9	75		81.3	72.3		175		
180	70.1	79.7	70.6	72.6	77.1	66.5	74.1	74.6	62.8	75.8	72.5		78.2	69.8		180		
185	61.3	77.1	68.2	68.1	74.6	64.2	71.3	72.2	60.7	72.8	70.1	57.6	75.1	67.5		185		
190		74.7	66		72.2	62.1	65.7	69.9	58.7	70.1	67.8	55.7	72.2	65.3		190		
195			72.2	63.9		69.9	60.1		67.6	56.8		65.7	53.8	69.5	63.2	50.1	195	
200			69.6	61.9		67.7	58.2		65.5	55		63.6	52.1		61.2	47.8	200	
205				60		65.6	56.4		63.5	53.2		61.6	50.4		59.3	45.5	205	
210				58.2			54.7		61.6	51.6		59.8	48.9		57.5	43.5	210	
215				56.5				53.1			50		58	47.4		55.8	41.7	215
220				54.8				51.5			48.5			45.9		54.1	40	220
225								49.9			47.1			44.5			38.4	225
230											45.7			43.1			37	230
235											44.3			41.7			35.7	235
240														40.4			34.4	240
245																33.2	245	
250																32.1	250	

* adapter · pièce d'adaptateur

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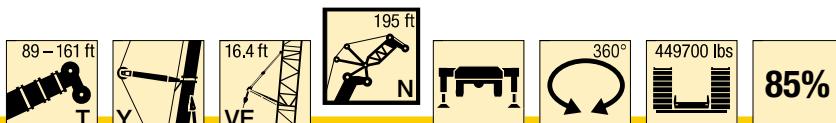
J

**Lifting capacities
Forces de levage**
TYVEN 184 ft

85%

 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft	
	184 ft			184 ft			184 ft			184 ft			184 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
80	98															80	
85	98.3			101.8			100.4									85	
90	98.7			101.2			99.7									90	
95	99.1			100.3			98.8									95	
100	99.3			99.4			98									100	
105	98.9			98.5			97.2									105	
110	98.4			97.8			96.5									110	
115	97.7			97.1			95.8									115	
120	97.2	91.9		96.5			95.3									120	
125	96.6	91.1		96	90.3		94.8									125	
130	96.1	90.4		95.5	89.7		94.3	88.1								130	
135	95.5	89.9		94.9	89.2		93.8	87.7								135	
140	94.5	89.4		94	88.7		93	87.3								140	
145	92.9	88.9		92.7	88.3		91.9	86.9								145	
150	90.3	88.7		91.4	87.9		90.7	86.6								150	
155	86.5	88.5		88	87.7		89.2	86.2								155	
160	82.9	88.3		84.3	87.2		85.8	84.3								160	
165	79.5	87.5		80.9	84.6		82.3	81.6								165	
170	76.3	84.4	74.6	77.6	81.6		79	79.1								170	
175	73.3	81.6	72	74.5	78.8	67.7	75.8	76.5								175	
180	70.5	78.8	69.5	71.7	76.2	65.4	72.8	73.9								180	
185	67.9	76.3	67.2	68.9	73.7	63.2	70	71.5	59.7							185	
190	64.8	73.8	65	66.4	71.3	61.1	67.4	69.1	57.7							190	
195	58	71.3	63	63.2	69	59.1	65	66.9	55.8							195	
200		68.6	61	55.3	66.9	57.2	61.1	64.8	54							200	
205		66.1	59.1		64.9	55.4		62.9	52.3							205	
210		63.7	57.3		62.9	53.7		60.9	50.7							210	
215			55.6		61	52.1		59.1	49.1							215	
220				53.9			50.5		57.3	47.6						220	
225				52.3			49			46.2						225	
230				50.8			47.6			44.8						230	
235							46.2			43.5						235	
240							44.8			42.2						240	
245										41						245	
250																250	
255																255	
260																260	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYVEN 195 ft


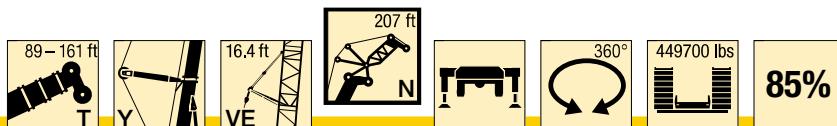
ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			ft	
	195 ft			195 ft			195 ft			195 ft			195 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
85	88			90.6						83.3						85	
90	88.1			91.6			90.3									90	
95	88.3			91.2			90.1			87.6			82.1			95	
100	88.5			90.5			89.3			87.1			84.4			100	
105	88.8			89.8			88.6			86.5			83.8			105	
110	88.7			89.1			87.9			85.9			83.2			110	
115	88.7			88.4			87.3			85.3			82.8			115	
120	88.2			87.8			86.7			84.7			82.3			120	
125	87.8	83		87.3			86.2			84.2			81.8			125	
130	87.3	82.5		86.8	81.7		85.7			83.8			81.4			130	
135	86.9	81.9		86.3	81.2		85.3	79.9		83.4			81.1			135	
140	86.6	81.4		85.9	80.8		85	79.5		83.1	77		80.8			140	
145	86.3	80.9		85.8	80.4		84.8	79.1		82.8	76.8		80.5			145	
150	86	80.6		85.6	80		84.6	78.8		82.6	76.5		80.3	73.4		150	
155	85.7	80.2		85.4	79.7		84.5	78.4		82.5	76.3		79.8	73.3		155	
160	83.8	80		84.8	79.4		84.5	78.2		82.5	76.1		79	73.2		160	
165	80.3	79.9		81.8	79.2		82.9	78		82.3	76		77.6	73.1		165	
170	77.2	79.8		78.5	79.2		79.8	77.9		80.8	75.4		76.2	72.2		170	
175	74.1	79.8	71.8	75.4	78.7		76.7	76		78.3	73.3		74.9	70.4		175	
180	71.2	78.9	69.7	72.4	76.4		73.7	73.8		75.4	71.2		73.7	68.3		180	
185	68.5	76.4	67.4	69.6	73.9	63.3	70.8	71.6		72.4	69.1		72.6	66.3		185	
190	66	74	65.2	67	71.5	61.2	68.1	69.4	57.8	69.6	67.1		71.2	64.4		190	
195	63.6	71.7	63.1	64.6	69.3	59.2	65.6	67.2	56	67	65.2		68.6	62.6		195	
200	61	69.2	61.1	62.3	67.1	57.3	63.3	65.1	54.2	64.6	63.2	51.2	66.1	60.9		200	
205	54.9	66.7	59.2	59.4	65.1	55.6	61	63.1	52.5	62.3	61.2	49.7	63.7	59.1		205	
210		64.2	57.4		63.1	53.9	57.8	61.2	50.9	60	59.3	48.1	61.4	57.3	45.1	210	
215		62	55.7		61.2	52.2		59.3	49.3	55.5	57.6	46.6	59.3	55.6	43.7	215	
220		59.9	54.1		59.4	50.7		57.6	47.8		55.9	45.2		53.9	42.3	220	
225		56.3	52.5		57.7	49.2		55.9	46.4		54.2	43.8		52.3	41	225	
230		51			47.7			54.3	45		52.7	42.5		50.8	39.8	230	
235		49.5			46.3			52.7	43.7		51.2	41.2		49.4	38.6	235	
240		48.1			45				42.4			40		47.9	37.5	240	
245		46.7			43.7				41.2			38.9		36.3	245		
250					42.5				40			37.8		35.3	250		
255									38.9			36.7		34.2	255		
260									37.8			35.6		33.2	260		
265											34.6			32.1	265		
270														31.2	270		
275														30.1	275		

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

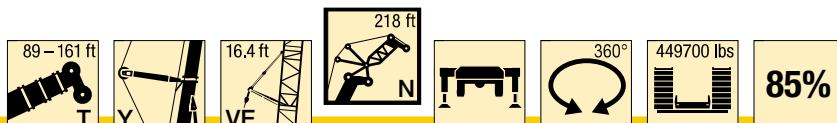
TYVEN 207 ft



 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
85	79.1															85
90	79.1			80.8			79.9									90
95	79.1			81.8			81.6			73.5						95
100	79.1			82.1			81.3			76.9			75.2			100
105	79.1			81.6			80.7			78.8			76.4			105
110	79.1			81			80.1			78.1			75.9			110
115	79.1			80.4			79.4			77.5			75.4			115
120	79.1			79.8			78.8			77			74.9			120
125	79.1			79.2			78.3			76.5			74.5			125
130	79	74.5		78.7			77.8			76.1			74.1			130
135	78.2	74.4		77.8	73.9		77.2			75.6			73.7			135
140	77.2	73.9		76.8	73.4		76.1	72.1		74.9			73.2			140
145	76.2	73.5		75.7	72.9		75.1	71.8		74.1	69.6		72.5			145
150	75.2	73.1		74.8	72.5		74.2	71.4		73.2	69.3		71.7			150
155	74.2	72.7		73.8	72.2		73.2	71.1		72.3	69		71	66.6		155
160	73.3	72.4		72.9	71.8		72.3	70.8		71.4	68.8		70.2	66.4		160
165	72.5	72.1		72.1	71.6		71.5	70.5		70.6	68.6		69.4	66.3		165
170	71.6	71.9		71.3	71.4		70.8	70.4		69.9	68.5		68.6	66.2		170
175	70.7	71.6		70.4	71		70	70.2		69.2	68.4		67.9	66.1		175
180	69.3	71.1	65	69.4	70.7		69.2	70		68.5	68.3		67.3	65.3		180
185	67.6	70.5	64.8	68.2	70.2		68.3	69.4		67.7	67.2		66.7	64		185
190	65	69.8	64.1	66.1	69.6	59.7	67.1	67.8		67.1	65.3		66.1	62.8		190
195	62.7	69	62.1	63.6	68.4	58	64.7	65.9		66	63.4		65.5	61		195
200	60.4	67.9	60.2	61.3	66.2	56.3	62.3	64.1	52.7	63.6	61.7		64.5	59.3		200
205	58.3	65.7	58.3	59.2	64.2	54.6	60.1	62.2	51.2	61.3	60	48	62.4	57.7		205
210	56.3	63.3	56.5	57.1	62.3	52.9	57.9	60.3	49.8	59.1	58.4	46.7	60.1	56.2		210
215	51.6	61	54.8	55.1	60.4	51.2	56	58.5	48.3	57	56.7	45.4	58	54.7	42.3	215
220		58.9	53.1	50.3	58.6	49.7	53.8	56.7	46.8	55.1	55	44.1	56	53.2	41.1	220
225		56.9	51.6		56.9	48.2	47.7	55.1	45.4	52.1	53.4	42.8	54.1	51.7	40	225
230		55	50.1		55.3	46.8		53.5	44		51.8	41.4		50.1	38.9	230
235		53.2	48.6		53.7	45.4		52	42.7		50.3	40.2		48.7	37.7	235
240		47.3			52.2	44.1		50.5	41.4		48.9	39		47.3	36.6	240
245		45.9			42.9			49.1	40.2		47.5	37.9		46	35.5	245
250		44.6			41.6				39.1		46.2	36.8		44.7	34.4	250
255			43.4		40.5			38			35.7		43.4	33.4	255	
260					39.3			36.9			34.7			32.4	260	
265								35.8			33.7			31.5	265	
270								34.8			32.7			30.6	270	
275											31.8			29.7	275	
280														28.8	280	
285														28	285	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYVEN 218 ft


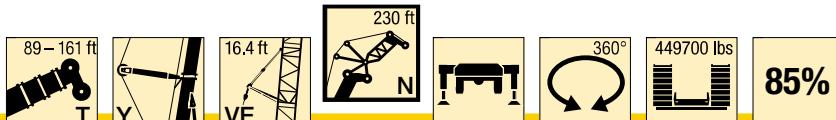
 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	218 ft	
90	71.5				72.7			71.5			66					90
95	71.5															95
100	71.5			73.4			73			68.7			65.2			100
105	71.5			73.9			73.6			71.3			68.5			105
110	71.5			73.9			73.2			71.6			69.4			110
115	71.5			73.5			72.6			71			69.1			115
120	71.5			72.9			72			70.5			68.6			120
125	71.5			72.4			71.5			70.1			68.2			125
130	71.5			71.9			71			69.6			67.8			130
135	71.4	67.2		71.4			70.6			69.2			67.4			135
140	70.9	67.2		70.8	67		70			68.7			67			140
145	70.3	67		69.9	66.5		69.2	65.4		68			66.5			145
150	69.5	66.6		69.1	66.1		68.4	65.1		67.2	63.3		65.8			150
155	68.7	66.3		68.3	65.8		67.7	64.7		66.4	63.1		65.1	60.8		155
160	67.9	65.9		67.5	65.4		66.9	64.4		65.8	62.8		64.4	60.6		160
165	67.2	65.6		66.8	65.2		66.2	64.2		65.1	62.6		63.8	60.5		165
170	66.6	65.3		66.1	64.9		65.5	64		64.4	62.4		63.2	60.4		170
175	65.9	65.2		65.4	64.7		64.8	63.8		63.8	62.3		62.6	60.2		175
180	65.2	65		64.8	64.5		64.2	63.6		63.1	62.2		62	60.2		180
185	64.4	64.8		64.2	64.3		63.6	63.5		62.6	62.1		61.5	60		185
190	63.4	64.4	58.7	63.4	64.1		63	63.3		62.1	62		61	59.1		190
195	61.9	64	58.5	62.5	63.7	56.5	62.4	63.1		61.6	61.7		60.6	58.1		195
200	59.7	63.6	58.5	60.6	63.2	54.9	61.6	62.5		61.1	60.4		60.1	57		200
205	57.6	63	57.4	58.4	62.7	53.3	59.4	60.9	49.8	60.1	58.8		59.6	56		205
210	55.6	62.2	55.8	56.4	61.6	51.8	57.2	59.3	48.4	58.1	57.2		59	54.9		210
215	53.7	60.4	54.1	54.5	59.8	50.4	55.2	57.7	47.1	56.1	55.7	44.2	57	53.6		215
220	51.9	58.2	52.5	52.6	58	49	53.4	56.1	45.8	54.2	54.3	42.9	55	52.2	40	220
225	48.4	56.1	50.9	50.9	56.3	47.5	51.6	54.5	44.5	52.3	52.9	41.8	53.1	50.9	38.9	225
230	43.2	54.2	49.4	47.5	54.7	46.1	49.8	52.9	43.3	50.6	51.4	40.6	51.4	49.6	37.8	230
235		52.4	48		53.2	44.7	45.3	51.4	42	48.1	49.9	39.6	49.7	48.3	36.8	235
240		50.7	46.6		51.7	43.5		49.9	40.7		48.5	38.5	46	46.9	35.8	240
245		49.1	45.3		50.2	42.2		48.6	39.6		47.2	37.3		45.6	34.8	245
250			44		48.8	41		47.2	38.4		45.8	36.2		44.3	33.9	250
255			42.8			39.8		45.9	37.3		44.6	35.2		43.1	32.8	255
260			41.6			38.7			36.3		43.3	34.1		41.8	31.9	260
265			40.5			37.7			35.2			33.1		40.7	30.9	265
270						36.6			34.3			32.2			30	270
275						35.6			33.3			31.3			29.2	275
280									32.3			30.4			28.3	280
285												29.5			27.5	285
290												28.7			26.7	290
295												25.9			25.9	295

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

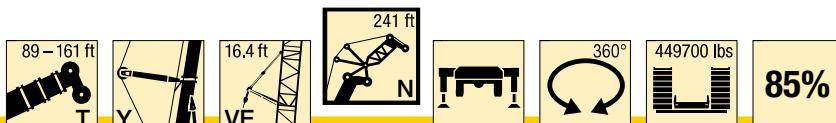
TYVEN 230 ft



 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	230 ft	
95	64.6			64.9												95
100	64.5			65.4			64.1			59						100
105	64.4			65.9			65.3			60.9			57.5			105
110	64.3			66.2			66.3			63.3			60.8			110
115	64.3			66.5			66.1			64.5			62.4			115
120	64.3			66.4			65.7			64.3			62.4			120
125	64.3			66			65.2			63.8			62.3			125
130	64.2			65.5			64.7			63.4			62			130
135	64.2			65			64.3			63			61.6			135
140	64.2	60.3		64.6			63.9			62.6			61.2			140
145	64	60.4		64.1	60.5		63.5			62.3			60.7			145
150	63.6	60.4		63.4	60.2		62.9	59.2		61.7			60.1			150
155	63.1	60.2		62.7	59.8		62.1	58.8		61	57.2		59.5			155
160	62.4	59.9		62	59.4		61.4	58.5		60.3	57		58.8	55.2		160
165	61.6	59.6		61.3	59.1		60.7	58.2		59.7	56.7		58.2	55		165
170	60.9	59.3		60.5	58.9		60.1	58		59.1	56.5		57.6	54.9		170
175	60.2	59.1		59.9	58.6		59.4	57.8		58.4	56.3		57	54.8		175
180	59.5	58.8		59.2	58.4		58.7	57.6		57.8	56.2		56.4	54.7		180
185	58.9	58.7		58.5	58.2		58	57.4		57.2	56.1		55.8	54.6		185
190	58.3	58.6		57.9	58.1		57.5	57.3		56.6	56		55.3	54.5		190
195	57.7	58.2	53	57.4	57.9		56.9	57.1		56.1	55.9		54.8	54.5		195
200	57.1	57.7	52.9	56.8	57.5		56.4	56.9		55.6	55.8		54.2	54.2		200
205	56.3	57.2	52.7	56.2	56.9	51.6	55.9	56.6		55.2	55.6		53.7	53.2		205
210	54.7	56.8	52.6	55.3	56.5	50.1	55.3	56.1	46.7	54.6	55.3		53.3	52.3		210
215	52.8	56.4	52.4	53.5	56.1	48.7	54.2	55.7	45.4	54.2	54		52.9	51.4		215
220	50.9	55.9	51.3	51.7	55.7	47.4	52.4	54.6	44.1	53.2	52.6	41.3	52.5	50.5		220
225	49.3	54.8	49.9	50	55.2	46.1	50.6	53.2	42.9	51.4	51.2	40.1	52.2	49.7		225
230	47.6	53.2	48.5	48.3	53.8	44.9	48.9	51.8	41.7	49.6	49.9	39	51.5	48.5	36.8	230
235	44.9	51.4	47.1	46.7	52.3	43.7	47.3	50.5	40.6	48	48.7	37.9	49.9	47.3	35.8	235
240	40.6	49.7	45.7	44.3	50.8	42.5	45.8	49.1	39.5	46.4	47.5	36.9	48.3	46.2	34.8	240
245		48.1	44.4	39.3	49.4	41.2	42.7	47.7	38.5	44.8	46.3	35.9	46.7	45	33.9	245
250		46.6	43.1		47.9	40.1		46.4	37.4		45	35	43	43.9	33	250
255		45.1	41.9		46.4	38.9		45.1	36.4		43.7	34.1		42.7	32.1	255
260			40.8		45	37.8		43.9	35.3		42.5	33.1		41.5	31.2	260
265			39.6		43.4	36.8		42.6	34.3		41.3	32.2		40.3	30.4	265
270			38.6			35.7			33.3		40.2	31.2		39.2	29.5	270
275				37.5		34.7			32.4			30.3		38.1	28.7	275
280						33.8			31.4			29.4			27.8	280
285						32.8			30.5			28.6			27	285
290									29.7			27.8			26.2	290
295									28.8			27			25.4	295
300												26.2			24.7	300
305															23.9	305

* adapter · pièce d'adaptateur

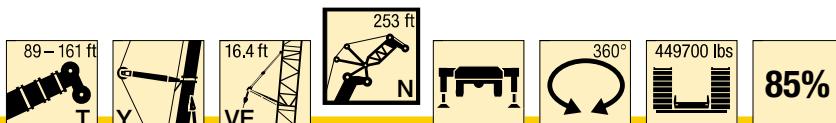
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**Lifting capacities
Forces de levage**
TYVEN 241 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	241 ft	
95	56.9															95
100	56.8			57.3			55.9									100
105	56.7			57.6			56.6									105
110	56.7			57.9			57.2									110
115	56.6			58.2			57.9									115
120	56.5			58.3			58.3									120
125	56.4			58.3			57.9									125
130	56.3			58			57.4									130
135	56.2			57.6			56.9									135
140	56.1			57			56.4									140
145	55.9	53.7		56.5			55.9									145
150	55.6	53.7		55.9	54.3		55.4									150
155	55.3	53.7		55.3	54		54.8	53.1								155
160	54.9	53.7		54.7	53.6		54.3	52.8								160
165	54.4	53.5		54.1	53.3		53.7	52.5								165
170	53.9	53.3		53.6	53		53.2	52.3								170
175	53.4	53.1		53.1	52.8		52.7	52								175
180	52.9	52.8		52.6	52.5		52.2	51.8								180
185	52.5	52.4		52.2	52.2		51.8	51.6								185
190	52	52.1		51.7	51.8		51.4	51.4								190
195	51.6	51.7		51.3	51.5		51	51								195
200	51.2	51.3	47.5	51	51.1		50.6	50.7								200
205	50.9	51.1	47.4	50.6	50.8		50.2	50.4								205
210	50.6	50.7	47.2	50.3	50.5	46.6	49.9	50.1								210
215	50.3	50.5	47.1	50	50.2	46.5	49.6	49.8								215
220	50.1	50.2	47.1	49.8	49.9	46.4	49.4	49.6	43.5							220
225	49.5	50	47.1	49.6	49.7	45.5	49.2	49.3	42.3							225
230	48	49.7	47.1	48.7	49.5	44.2	49	49.1	41.1							230
235	46.4	49.6	46.6	47.1	49.3	43.1	47.8	48.9	40							235
240	44.5	49.4	45.5	45.5	49.2	42	46.1	48.6	39							240
245	41.6	48.4	44.2	43.9	49.1	40.9	44.7	47.4	37.9							245
250	38	46.9	43	41.2	48	39.8	43.1	46.3	36.9							250
255	33.6	45.3	41.8	37	46.6	38.8	39.9	45	36							255
260	43.9	40.6			45.2	37.7			43.8							260
265		42.5	39.5		43.7	36.6			42.6							265
270		40	38.4		42.4	35.6			41.4							270
275			37.3		41	34.6			40.3							275
280			36.3			33.6			39.2							280
285			35.3			32.7										285
290			34.3			31.8										290
295						30.8										295
300																300
305																305
310																310
315																315
320																320

* adapter · pièce d'adaptateur

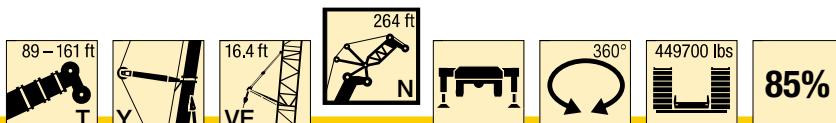
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**Lifting capacities
Forces de levage**
TYVEN 253 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft			
	253 ft			253 ft			253 ft			253 ft			253 ft						
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°				
100	51.8															100			
105	51.8			52.1			50.6									105			
110	51.7			52.2			51.2						47.5		39.9	110			
115	51.6			52.4			51.8						48.7		42	115			
120	51.4			52.6			52.7						49.8		45.6	120			
125	51.3			52.7			53						50.7		48.3	125			
130	51.2			52.7			52.7						51.5		49.8	130			
135	51			52.6			52.3						51.3		50.2	135			
140	50.9			52.3			51.9						50.9		49.8	140			
145	50.8			52			51.4						50.5		49.4	145			
150	50.6	48.3		51.5			51						50.1		49	150			
155	50.5	48.3		51.1	49.2		50.6						49.7		48.7	155			
160	50.2	48.3		50.6	48.8		50.2	48					49.3		48.3	160			
165	50	48.3		50.1	48.5		49.7	47.8					48.9	46.6	48	165			
170	49.7	48.2		49.6	48.2		49.2	47.5					48.5	46.3	47.6	44.7	170		
175	49.3	48.1		49.2	47.9		48.8	47.3					48.1	46.1	47.2	44.6	175		
180	48.9	47.9		48.7	47.7		48.3	47					47.6	45.9	46.8	44.4	180		
185	48.5	47.7		48.2	47.5		47.9	46.8					47.2	45.8	46.4	44.3	185		
190	48.1	47.5		47.8	47.3		47.5	46.6					46.8	45.6	46	44.2	190		
195	47.7	47.3		47.4	47.1		47.1	46.5					46.4	45.5	45.7	44.1	195		
200	47.3	47.1		47	46.9		46.7	46.3					46.1	45.4	45.3	44	200		
205	46.9	46.9		46.7	46.7		46.3	46.2					45.8	45.2	45	43.9	205		
210	46.6	46.7	42.7	46.4	46.4		46	46					45.5	45.1	44.7	43.8	210		
215	46.3	46.4	42.6	46.1	46.2	42	45.7	45.8					45.2	45	44.4	43.8	215		
220	46	46.1	42.5	45.8	45.9	41.9	45.4	45.6					44.9	44.8	44.1	43.7	220		
225	45.8	45.9	42.4	45.5	45.7	41.8	45.2	45.3	40.5				44.6	44.6	43.8	43.6	225		
230	45.7	45.7	42.4	45.3	45.4	41.8	44.9	45.1	39.6				44.3	44.4	43.6	43.2	230		
235	45.3	45.5	42.4	45.1	45.2	41.4	44.7	44.9	38.5				44	44.2	35.8	43.3	42.6	235	
240	44	45.3	42.4	44.6	45	40.4	44.5	44.7	37.4				43.8	44	34.8	43.1	42.1	32.1	240
245	42.6	45.1	42.4	43.2	44.8	39.4	43.7	44.4	36.4				43.6	43.8	33.9	43	41.4	31.2	245
250	41	45	41.7	41.8	44.6	38.3	42.3	44.3	35.5				42.9	43.1	33	42.9	40.8	30.3	250
255	38.5	44.4	40.7	40.4	44.5	37.4	41	43.7	34.5				41.5	42.1	32.1	42.2	40.2	29.5	255
260	35.4	42.9	39.7	38.2	44.2	36.4	39.6	42.7	33.6				40.2	41	31.2	40.8	39.3	28.7	260
265	31.5	41.6	38.6	34.8	42.9	35.5	37.3	41.7	32.7				38.7	40.1	30.4	39.5	38.3	27.9	265
270		40.3	37.5		41.5	34.6	33.4	40.6	31.9				35.5	39.1	29.6	37.3	37.4	27.1	270
275		39	36.5		40.1	33.7		39.5	31.1				38.2	28.8	33.6	36.5	26.4	275	
280		37.4	35.5		38.9	32.7		38.4	30.3				37.2	28.1		35.7	25.7	280	
285			34.5		37.7	31.8		37.4	29.5				36.2	27.3		34.8	25	285	
290				33.6		30.9		36.4	28.7				35.2	26.6		33.9	24.4	290	
295				32.6		30			27.8				34.2	25.9		32.9	23.7	295	
300				31.7		29.2			27				25.2			32	23.1	300	
305						28.4			26.2				24.4				22.5	305	
310						27.6			25.5				23.7				21.8	310	
315									24.8				23				21.1	315	
320													22.3				20.5	320	
325													21.6				19.8	325	
330															19.2		330		

* adapter · pièce d'adaptateur

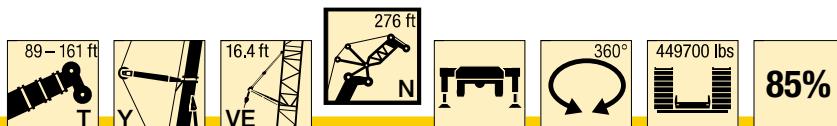
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**Lifting capacities
Forces de levage**
TYVEN 264 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft
	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	264 ft	
105	46.7			46.9												105
110	47			47.2			45.5			41.4						110
115	47.1			47.4			46			42.4			35.3			115
120	46.8			47.4			46.5			43.3			36.7			120
125	46.5			47.5			46.8			44.3			38.7			125
130	46.2			47.4			47.2			45.2			41.5			130
135	45.9			47.4			47.5			45.8			43.6			135
140	45.6			47.2			47.1			46.2			44.8			140
145	45.3			46.8			46.5			45.8			44.8			145
150	44.9			46.3			45.9			45.2			44.2			150
155	44.5	43.4		45.7			45.3			44.6			43.7			155
160	44.2	43.3		45.1	44.4		44.7			44			43.2			160
165	43.8	43.3		44.4	44.1		44.1	43.4		43.5			42.6			165
170	43.4	43.2		43.8	43.8		43.5	43.2		42.9	42		42.1			170
175	43	43		43.2	43.4		42.9	42.9		42.3	41.8		41.6	40.3		175
180	42.6	42.7		42.6	42.9		42.3	42.5		41.7	41.6		41.1	40.2		180
185	42.1	42.3		42	42.4		41.8	42.1		41.2	41.3		40.5	40.1		185
190	41.5	42		41.4	41.9		41.2	41.6		40.7	40.9		40	39.8		190
195	41	41.5		40.8	41.4		40.6	41.1		40.1	40.4		39.5	39.5		195
200	40.4	41		40.3	40.9		40.1	40.6		39.6	40		39	39.1		200
205	39.9	40.5		39.8	40.4		39.6	40.2		39.1	39.6		38.6	38.7		205
210	39.4	40		39.3	40		39.1	39.8		38.6	39.2		38.1	38.4		210
215	38.9	39.5	38.3	38.8	39.5		38.6	39.3		38.2	38.8		37.7	38		215
220	38.4	39.1	38	38.3	39.1		38.1	38.9		37.7	38.4		37.2	37.7		220
225	37.9	38.7	37.7	37.8	38.6	37.4	37.6	38.5		37.3	38		36.8	37.4		225
230	37.4	38.2	37.3	37.3	38.2	37.1	37.1	38.1	36.5	36.8	37.7		36.3	37.1		230
235	37	37.8	37	36.8	37.8	36.8	36.6	37.7	36.3	36.3	37.3		35.9	36.7		235
240	36.6	37.4	36.7	36.5	37.3	36.5	36.3	37.3	36	35.9	37	33.8	35.5	36.4		240
245	36.3	36.9	36.4	36.2	36.9	36.2	35.9	36.9	35.4	35.6	36.7	32.9	35.1	36.1		245
250	36	36.5	36.1	35.9	36.5	35.9	35.7	36.5	34.5	35.3	36.3	32	34.8	35.8	29.4	250
255	35.7	36.2	35.8	35.6	36.2	35.7	35.4	36.2	33.6	35	36	31.1	34.6	35.5	28.5	255
260	35.6	36	35.5	35.4	35.9	35.3	35.2	35.8	32.7	34.8	35.6	30.3	34.4	35.3	27.7	260
265	35	35.8	35.2	35.3	35.7	34.5	35	35.6	31.8	34.6	35.3	29.5	34.2	34.9	27	265
270	33.1	35.6	35	34.9	35.5	33.7	34.9	35.3	31	34.6	35.1	28.7	34.1	34.7	26.2	270
275	29.9	35.5	34.8	32.6	35.3	32.8	34.3	35.2	30.2	34.5	34.9	27.9	34.1	34.5	25.5	275
280		35.4	34.6		35.2	32	31.5	35	29.4	33.2	34.7	27.2	33.9	34.3	24.8	280
285		35.4	34.1		35.2	31.2		34.9	28.7	29.8	34.6	26.5	31.7	33.9	24.1	285
290		34.8	33.2		35.2	30.4		34.9	27.9		34.5	25.8		33.2	23.5	290
295		31.5	32.3		34.8	29.6		34.9	27.2		33.9	25.1		32.4	22.9	295
300			31.4			28.8		34.1	26.6		33	24.5		31.7	22.2	300
305			30.5			28			25.9		32.1	23.8		30.8	21.6	305
310			29.7			27.2			25.1			23.2		30	21.1	310
315						26.4			24.4			22.6			20.5	315
320						25.7			23.7			21.9			20	320
325									23			21.3			19.2	325
330												20.6			17.9	330
335												20			16.7	335
340															15.5	340

* adapter · pièce d'adaptateur

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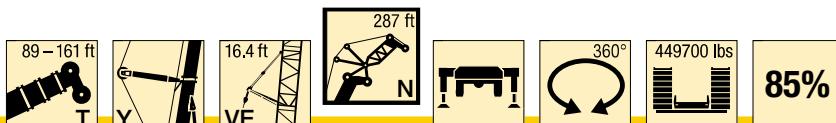
**Lifting capacities
Forces de levage**
TYVEN 276 ft


J	ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			ft	
		276 ft			276 ft			276 ft			276 ft			276 ft				
		84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
	105	41.6															105	
	110	42			42.1												110	
	115	42.3			42.5			40.8			37			30.6			115	
	120	42.4			42.6			41.3			37.8			31.5			120	
	125	42.2			42.6			41.7			38.6			32.3			125	
	130	41.9			42.6			42			39.4			33.4			130	
	135	41.6			42.6			42.2			40.2			35.6			135	
	140	41.3			42.6			42.3			40.9			37.7			140	
	145	40.9			42.4			42.4			41.5			39.3			145	
	150	40.6			42.1			42			41.3			40.2			150	
	155	40.3			41.8			41.5			40.8			39.9			155	
	160	40	38.9		41.3			40.9			40.2			39.4			160	
	165	39.7	38.9		40.7	40		40.4			39.7			38.9			165	
	170	39.4	38.8		40.2	39.7		39.9	39.1		39.2			38.5			170	
	175	39.1	38.7		39.7	39.4		39.3	38.9		38.7	37.8		38			175	
	180	38.8	38.5		39.1	39.1		38.8	38.7		38.2	37.6		37.5	36.3		180	
	185	38.4	38.3		38.6	38.7		38.3	38.3		37.7	37.4		37	36.1		185	
	190	38	38.1		38	38.2		37.7	37.8		37.2	37		36.6	36		190	
	195	37.6	37.7		37.5	37.8		37.2	37.4		36.7	36.7		36.1	35.7		195	
	200	37.1	37.4		37	37.3		36.8	37		36.3	36.3		35.7	35.3		200	
	205	36.6	37		36.4	36.9		36.3	36.6		35.8	36		35.2	35.1		205	
	210	36.1	36.5		35.9	36.5		35.8	36.2		35.3	35.6		34.8	34.8		210	
	215	35.6	36.1		35.4	36.1		35.2	35.9		34.9	35.3		34.3	34.5		215	
	220	35	35.7	34.4	34.9	35.6		34.7	35.5		34.4	34.9		33.9	34.2		220	
	225	34.5	35.3	34.1	34.4	35.2		34.2	35.1		33.9	34.6		33.4	33.9		225	
	230	34	34.8	33.8	33.8	34.8	33.6	33.7	34.7		33.4	34.2		33	33.6		230	
	235	33.5	34.3	33.6	33.4	34.3	33.3	33.3	34.3		32.9	33.9		32.5	33.3		235	
	240	33.1	33.9	33.2	33	33.9	33.1	32.8	33.9	32.5	32.5	33.5		32.1	33		240	
	245	32.7	33.4	32.9	32.6	33.5	32.8	32.4	33.5	32.3	32.1	33.2	31.1	31.7	32.7		245	
	250	32.3	33	32.6	32.2	33	32.5	32	33	32	31.7	32.8	30.5	31.4	32.3		250	
	255	32	32.6	32.2	31.9	32.6	32.2	31.7	32.6	31.8	31.4	32.4	29.6	31	32	27	255	
	260	31.8	32.3	31.9	31.6	32.3	31.8	31.4	32.2	31.2	31.1	32	28.8	30.7	31.7	26.3	260	
	265	31.5	32	31.5	31.4	31.9	31.5	31.2	31.9	30.4	30.8	31.7	28	30.4	31.3	25.5	265	
	270	31.2	31.7	31.3	31.1	31.7	31.2	30.9	31.6	29.6	30.6	31.4	27.2	30.2	31.1	24.8	270	
	275	31.1	31.5	31	30.9	31.4	31	30.7	31.4	28.8	30.4	31.1	26.5	30	30.8	24.1	275	
	280	30.4	31.3	30.9	30.8	31.2	30.6	30.5	31.1	28	30.2	30.9	25.8	29.9	30.6	23.4	280	
	285	27.9	31.1	30.7	30.1	31.1	29.8	30.5	30.9	27.3	30.2	30.7	25.1	29.8	30.4	22.7	285	
	290	31	30.5	27.2	30.9	29.1	29.3	30.8	26.6	29.9	30.5	24.4	29.8	30.2	22.1	290		
	295	31	30.3		30.8	28.4		30.6	25.9	27.7	30.4	23.7	29.2	30.1	21.5		295	
	300	31	30.3		30.8	27.7		30.6	25.2		30.3	23.1		29.9	20.9		300	
	305		29.9	29.7		30.8	27		30.6	24.6		30.3	22.5		29.6	20.3		305
	310		28.9			30.1	26.3		30.6	23.9		30.2	21.9		29	19.7		310
	315		28.1			25.6			23.3			29.6	21.3		28.3	19		315
	320		27.3			24.9			22.8			28.8	20.8		27.6	17.8		320
	325					24.2			22.1			20.2			16.6			325
	330					23.5			21.5			19.7			15.3			330
	335								20.8			19.1			14.2			335
	340								20.2			18.3			13			340
	345											17			11.8			345
	350														10.7			350
	355														9.5			355

* adapter · pièce d'adaptateur

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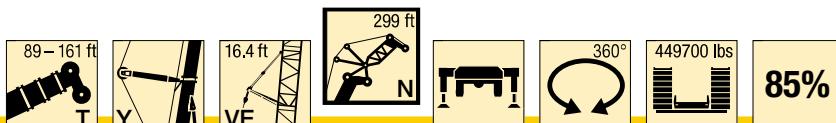


**Lifting capacities
Forces de levage**
TYVEN 287 ft


 ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			 ft	
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
110	36.3															110	
115	35.9			36.2			35.3									115	
120	35.6			36			35.4						32.7			120	
125	35.3			35.9			35.5						33.3			125	
130	34.9			35.7			35.6						33.8			130	
135	34.6			35.6			35.7						34.2			135	
140	34.3			35.5			35.7						34.5			140	
145	34			35.3			35.5						34.8			145	
150	33.7			35			35						34.5			150	
155	33.4			34.6			34.5						34			155	
160	33.1			34.3			34.1						33.6			160	
165	32.8	32.4		33.8			33.6						33.1			165	
170	32.5	32.2		33.4	33.3		33.1						32.7			170	
175	32.2	32		32.9	32.9		32.7	32.6					32.3			175	
180	32	31.8		32.5	32.6		32.3	32.3					31.8	31.6		180	
185	31.7	31.6		32.1	32.2		31.9	31.9					31.5	31.3		185	
190	31.4	31.4		31.6	31.8		31.4	31.6					31.1	31		190	
195	31.1	31.2		31.3	31.4		31.1	31.2					30.7	30.6		195	
200	30.8	31		30.9	31.1		30.7	30.8					30.3	30.3		200	
205	30.6	30.7		30.5	30.7		30.3	30.5					29.9	30		205	
210	30.3	30.4		30.2	30.4		30	30.2					29.5	29.7		210	
215	29.9	30.1		29.8	30		29.6	29.9					29.2	29.4		215	
220	29.6	29.8		29.4	29.7		29.3	29.5					28.9	29.2		220	
225	29.3	29.5		29.1	29.4		29	29.2					28.6	28.9		225	
230	29	29.2	28.3	28.9	29.1		28.7	29					28.3	28.6		230	
235	28.7	29	28	28.6	28.8	27.8	28.4	28.7					28.1	28.3		235	
240	28.5	28.7	27.8	28.3	28.6	27.6	28.2	28.4					27.8	28.1		240	
245	28.3	28.5	27.6	28.1	28.3	27.4	28	28.2	26.9				27.6	27.9		245	
250	28	28.3	27.4	27.9	28.1	27.2	27.7	28	26.7				27.4	27.7		250	
255	27.9	28.1	27.3	27.7	27.9	27	27.5	27.8	26.6				27.2	27.5		255	
260	27.7	27.9	27.1	27.6	27.7	26.9	27.4	27.6	26.4	27	27.3	25.6	26.7	26.9	24.6	260	
265	27.6	27.7	26.9	27.5	27.6	26.7	27.2	27.4	26.3	26.9	27.1	25.5	26.6	26.7	24.5	265	
270	27.2	27.6	26.8	27.2	27.4	26.6	27.1	27.3	26.2	26.9	27	25.4	26.4	26.6	24	270	
275	26.7	27.4	26.7	26.8	27.3	26.4	26.8	27.1	26.1	26.7	26.9	25.4	26.3	26.4	23.4	275	
280	26.2	27.3	26.6	26.2	27.2	26.3	26.3	27	25.9	26.3	26.7	25.1	26.1	26.3	22.7	280	
285	25.8	27.1	26.5	25.8	27.1	26.2	25.8	25.8	25.8	25.8	26.6	24.4	25.8	26.2	22	285	
290	25.5	26.7	26.4	25.6	26.9	26.1	25.5	26.8	25.7	25.4	26.6	23.7	25.3	26.2	21.4	290	
295	25.2	26.2	26.4	25.3	26.5	26.1	25.3	26.7	25.2	25.2	26.5	23.1	25	26.1	20.8	295	
300	23.3	25.9	26.4	24.8	26	26	25.1	26.3	24.6	25	26.5	22.4	24.9	26.1	20.2	300	
305		25.6	26.3		25.7	26	24.5	25.9	23.9	24.9	26.2	21.8	24.8	26.1	19.6	305	
310		25.4	26.1		25.4	25.7		25.6	23.3		25.7	21.2	24.3	25.9	18.5	310	
315		25.3	25.7		25.3	25		25.3	22.7		25.4	20.7		25.5	17.2	315	
320			25.4		25.2	24.4		25.2	22.1		25.2	20.1		25.2	16	320	
325			25.2			23.8		25.1	21.5		25.1	19.6		25	14.8	325	
330				25.1			23.2			21		25.1	19.1		25	13.6	330
335				24.9			22.6			20.5		18.1		24.9	12.5	335	
340						21.9			19.9			16.9			11.4	340	
345									19.4			15.6			10.3	345	
350										18.8			14.4			9.2	350
355												13.2			8.1	355	
360															7	360	
365															5.9	365	

* adapter · pièce d'adaptateur

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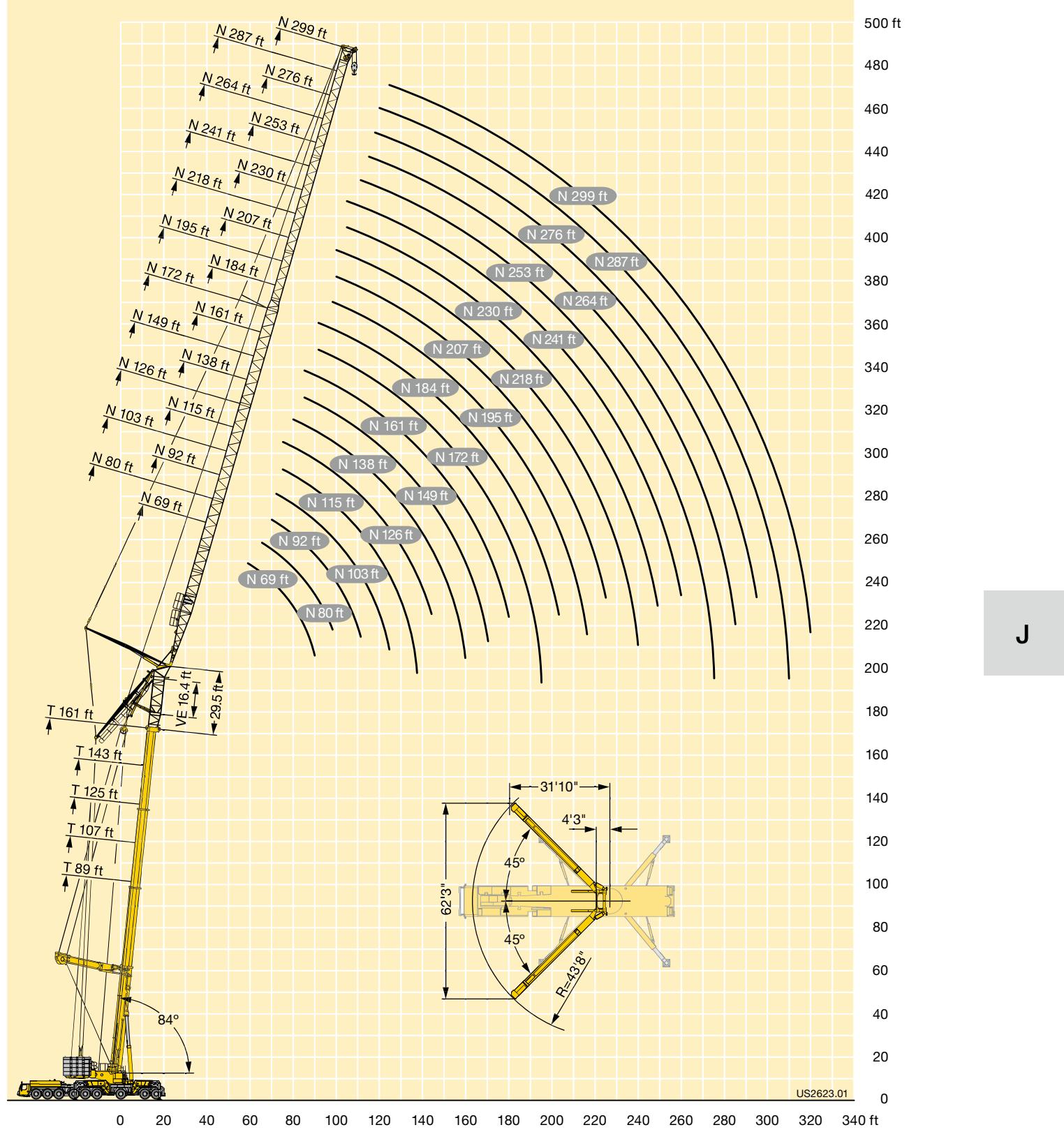
**Lifting capacities
Forces de levage**
TYVEN 299 ft


J	ft	89 + 29.5 ft*			107 + 29.5 ft*			125 + 29.5 ft*			143 + 29.5 ft*			161 + 29.5 ft*			ft
		84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
	115	32.9			33												115
	120	32.8			32.9			31.5			29						120
	125	32.5			32.8			32			29.5			24.5			125
	130	32.2			32.6			32.1			30.1			25.1			130
	135	31.9			32.5			32.1			30.5			25.7			135
	140	31.6			32.3			32.2			30.7			26.3			140
	145	31.3			32.2			32.2			30.9			26.9			145
	150	31			32			32.2			31			27.6			150
	155	30.7			31.8			32			30.9			28.8			155
	160	30.5			31.5			31.6			30.6			29.8			160
	165	30.2			31.3			31.2			30.2			29.6			165
	170	29.9	29.6		30.9			30.8			29.8			29.3			170
	175	29.7	29.4		30.6	30.4		30.4			29.4			28.9			175
	180	29.4	29.2		30.1	30.1		29.9	29.8		29			28.6			180
	185	29.1	29		29.8	29.7		29.6	29.5		28.7	28.5		28.2			185
	190	28.9	28.8		29.4	29.4		29.2	29.2		28.3	28.2		27.9	27.5		190
	195	28.6	28.6		29	29.1		28.8	28.9		28	27.9		27.6	27.2		195
	200	28.4	28.4		28.6	28.8		28.4	28.5		27.6	27.6		27.3	27		200
	205	28.1	28.2		28.3	28.4		28.1	28.2		27.3	27.3		26.9	26.7		205
	210	27.9	28		28	28.1		27.7	27.9		27	27		26.6	26.5		210
	215	27.6	27.8		27.6	27.8		27.4	27.6		26.6	26.8		26.3	26.2		215
	220	27.4	27.6		27.3	27.5		27.1	27.3		26.3	26.5		26	26		220
	225	27.1	27.3		27	27.2		26.8	27		26	26.3		25.7	25.8		225
	230	26.8	27		26.7	26.9		26.5	26.7		25.7	26		25.4	25.6		230
	235	26.6	26.7	25.7	26.4	26.6		26.3	26.5		25.4	25.7		25.1	25.3		235
	240	26.3	26.5	25.5	26.2	26.4		26	26.2		25.1	25.5		24.8	25.1		240
	245	26	26.3	25.4	25.9	26.2	25.2	25.8	26		24.8	25.3		24.5	24.9		245
	250	25.8	26	25.2	25.7	25.9	25	25.5	25.8	24.5	24.4	25.1		24.2	24.7		250
	255	25.6	25.8	25	25.4	25.7	24.8	25.3	25.6	24.4	24.1	24.8		23.9	24.5		255
	260	25.3	25.6	24.8	25.2	25.5	24.6	25	25.4	24.2	23.8	24.5	23.2	23.5	24.3		260
	265	25	25.4	24.7	24.9	25.3	24.5	24.8	25.2	24.1	23.4	24.3	23.1	23.2	24		265
	270	24.7	25.2	24.6	24.6	25.1	24.3	24.5	25	23.9	23.1	24	23	22.9	23.7	22.1	270
	275	24.5	24.9	24.4	24.3	24.9	24.2	24.2	24.8	23.8	22.8	23.7	22.8	22.6	23.5	22.1	275
	280	24.2	24.7	24.2	24.1	24.6	24.1	24	24.6	23.7	22.5	23.4	22.7	22.3	23.2	21.9	280
	285	24	24.4	24	23.9	24.4	23.9	23.7	24.3	23.6	22.3	23.2	22.5	22.1	23	21.4	285
	290	23.8	24.2	23.8	23.7	24.2	23.7	23.6	24.1	23.5	22.1	22.9	22.3	21.9	22.8	20.8	290
	295	23.7	24	23.6	23.6	24	23.5	23.4	23.9	23.3	21.9	22.7	22.1	21.7	22.5	20	295
	300	23.7	23.9	23.5	23.6	23.8	23.3	23.3	23.7	23.1	21.9	22.4	21.8	21.6	22.3	18.7	300
	305	23.7	23.7	23.3	23.6	23.7	23.2	23.3	23.5	22.6	21.8	22.2	21.2	21.5	22.1	17.4	305
	310	21.6	23.7	23.1	23.2	23.5	23	23.3	23.4	22	21.8	22	20.6	21.5	21.9	16.1	310
	315		23.7	23		23.4	22.9	22.7	23.3	21.4	21.8	21.9	20	21.5	21.7	14.9	315
	320		23.7	22.9		23.4	22.8		23.2	20.8		21.9	19.4	21.5	21.7	13.7	320
	325		23.7	22.9		23.4	22.6		23.2	20.3		21.8	18.4		21.6	12.5	325
	330			22.9		23.4	22		23.2	19.7		21.8	17.1		21.6	11.3	330
	335				22.9			23.2	19.2		21.8	15.9		21.6	10.2		335
	340				22.9				18.7		21.8	14.7		21.6	9.1		340
	345				22.8				18.1			13.5		21.6	8		345
	350					19.9			16.9			12.3			7		350
	355					19.3			15.6			11.2			5.9		355
	360								14.3			10			4.9		360
	365											8.9			3.9		365
	370											7.7				370	

* adapter · pièce d'adaptateur

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**Lifting heights
Hauteurs de levage**
TYVEN


**Lifting capacities
Forces de levage**
TYV2EN 69 ft - 80 ft

		89 - 161 ft	Y	32.8 ft	V2	16.4 ft	VE	69 ft	N	360°	449700 lbs	85%				
		89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*		
		69 ft			69 ft			69 ft			69 ft			69 ft		
ft	ft	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°
50	259.9															50
55	247.3				241.2			232.6								55
60	235.9				229.9			221.6			214.1			201.7		60
65	225.3				219.4			211.6			204.3			191.4		65
70	215.1				208.2			202.2			195.2			181.7		70
75	205.4				196.4			192.2			186.8			173		75
80	196	192.7			186.1			182.2			178			165.3		80
85	186.2	182.5			177	156.3		173.3			169.3			158.5		85
90		173.2				146.5		165.4	145.1		161.6			152.9		90
95		163.8				137.9			136.8					148.3		95
100		155				130.3			129.1			126.7		128.7		100
105		146.8				123.6			122.3			119.6		123.1		105
110			117			118			116.3			113.5		117.4		110
115									110.9			107.9		112.2		115
120			111.6									103.2		107.4		120
125			106.7				83							103.2		125
130			102				78.6			76						130
135							74.8			72.3						135
140							71.5			68.7			65			140
145										65.5			61.8			145
150												58.8		61.7		150
155												56.2		58.9		155
160														56.4		160

* adapter · pièce d'adaptateur

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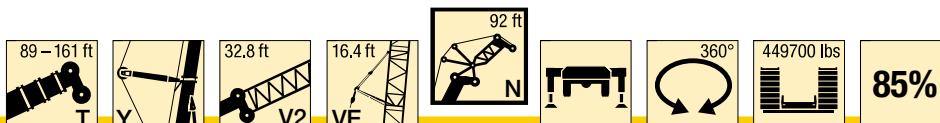
		89 - 161 ft	Y	32.8 ft	V2	16.4 ft	VE	80 ft	N	360°	449700 lbs	85%				
		89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*		
		80 ft			80 ft			80 ft			80 ft			80 ft		
ft	ft	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°
55	237.6							213.3								55
60	227.5				221.2											60
65	218				211.8			204.2			196.7			187.7		65
70	209.1				203.2			195.8			188.5			178.6		70
75	200.6				195			188			181			169.8		75
80	192.7				185.4			180.5			173.9			162		80
85	184.9	181.5			175.9			172.1			167.2			154.9		85
90	177.2	172.3			167.4	152.7		164.1			160.7			148.4		90
95	168.2	162.9			159.9	142.5		156.5	141.9		153.6			142.9		95
100	154.2				153.4	133.8		149.8	133		146.8			138.2		100
105		146.3				126.3			125.1			124		134.3	126.1	105
110		139.1				119.5			118.3			116.9		119.7		110
115		132.4				113.7			112.3			110.6		113.7		115
120			110.7			108.7			107.1			105.1		108.6		120
125				105.8				102.3			100.1			103.9		125
130				101.3			82.3				95.9			99.6		130
135				97.1			77.3							95.7		135
140				93.1			73.2			71.1						140
145							69.7			67.1						145
150							66.7			63.8			61			150
155										60.9			57.8		60.8	155
160												55.1		57.6		160
165												52.7		54.9		165
170														52.6		170

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

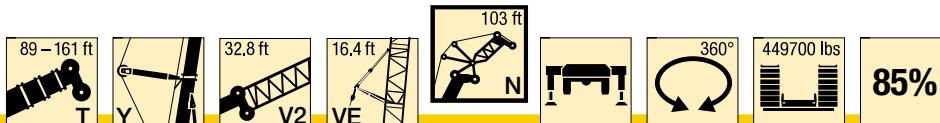
TYV2EN 92 ft - 103 ft



ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*					
	92 ft			92 ft			92 ft			92 ft			92 ft					
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
60	223.8			217.9												60		
65	214.2			208.3			200.8									65		
70	205.3			199.6			192.3			185.5			172.6			70		
75	196.9			191.5			184.4			177.8			164.8			75		
80	189.1			182.9			177			170.6			157.6			80		
85	181.7			173.5			170.1			164.1			150.9			85		
90	174.7	171.3		165.3			162.1			157.8			144.7			90		
95	167.9	162		157.5	143		154.5			151.7			139.1			95		
100	160.7	153.4		150.6	134.4		147.7	132.5		145			134.1			100		
105	151.3	145.4		144.5	126.6		141.6	126		138.8			129.6			105		
110	142.3	138.3		139.2	119.9		136.2	119.1		133.2	117.1		125.8			110		
115		131.7			113.8			113		128.2	110.8		122.7	113.5		115		
120		125.6			108.5			107.5			105.2			108.4			120	
125		120			103.8			102.5			100.2			103.8			125	
130		114.8	100.4		99.5			98.2			95.8			99.5			130	
135			96.2		95.7	78.2			94.1			91.7			95.5			135
140			92.3			73.8			90.5			87.9			91.9			140
145			88.7			70				68					88.7			145
150			85.2			66.8				64.5								150
155			82			63.8				61.3			58					155
160						61.2				58.5			55			58		160
165										56.1			52.5			55.3		165
170										53.9			50.2			52.8		170
175													48.1			50.6		175
180															48.5			180
185															46.7			185

* adapter · pièce d'adaptateur

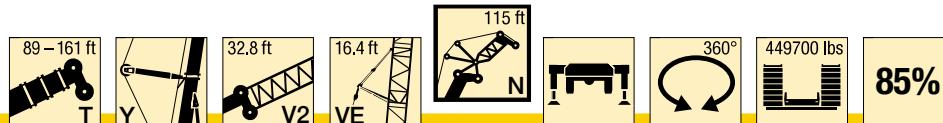
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ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			ft	
	103 ft			103 ft			103 ft			103 ft			103 ft				
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
60	211															60	
65	206.9			201.2												65	
70	199.2			193.3			186.4			179.3						70	
75	191.6			185.8			178.9			172.3			160.5			75	
80	184.4			178.8			172.2			165.8			153.8			80	
85	177.5			172.3			165.7			159.5			147.5			85	
90	171.1			164.4			159.7			153.7			141.5			90	
95	164.9	161.2		156.7			153.5			148.3			135.9			95	
100	159	152.6		149.6	138.6		146.7			143.2			130.7			100	
105	151.1	144.7		143.2	130.5		140.5	129.1		138.1			126			105	
110	142	137.6		137.4	123		134.6	122.1		132.5			121.8			110	
115	133.8	131.1		132	116.3		129.4	115.5		127.2	114		118			115	
120	126.5	125.1		127.5	110.3		124.6	109.3		122.4	108.1		114.9	108.6		120	
125		119.5			105		120.6	103.9		118	102.6		112.3	104.1		125	
130		114.4			100.4			99.2			97.7			100.1			130
135		109.7	95.5		96.1			94.8			93.3			96.2			135
140		105.2	91.6		92.3			91			89.2			92.4			140
145			88		89.1	72.9		87.3			85.5			88.9			145
150			84.7			68.9		84.1	66.5		82.2			85.6			150
155			81.5			65.5			63.2		79.2			82.6			155
160			78.5			62.4			60			57.5		79.8			160
165			75.7			59.8			57.1			54.4					165
170						57.4			54.6			51.7			54.3		170
175									52.3			49.4			51.7		175
180									50.2			47.2			49.3		180
185												45.3			47.3		185
190														45.3			190
195														43.6			195

* adapter · pièce d'adaptateur

45.0 195

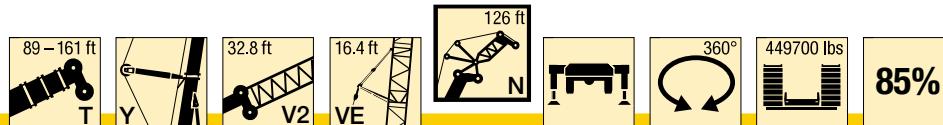
**Lifting capacities
Forces de levage**
TYV2EN 115 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft			
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°				
65	188.5															65			
70	185.7			181.2			176.2									70			
75	183.2			179			172.7			166.1			152.4			75			
80	178.5			173			166.5			160.3			149			80			
85	172.2			166.9			160.6			154.5			143.3			85			
90	166.3			161.1			155			149.1			137.7			90			
95	160.6			155.1			149.7			144			132.4			95			
100	155.3	150.9		148.1			144.6			139.2			127.5			100			
105	150	143.9		141.7	133.9		139			134.6			122.7			105			
110	141.9	136.8		135.8	126.3		133.3			130.3			118.5			110			
115	133.8	130.3		130.2	118.9		127.9	117.6		125.7			114.6			115			
120	126.3	124.3		125.3	112.5		123	111.6		120.9	109.8		111.1			120			
125	119.6	118.8		120.8	106.6		118.4	105.9		116.3	104.3		107.9	103.3		125			
130	113.7	113.7		116.7	101.4		114.4	100.6		112.1	99.1		105.1	99.1		130			
135		109		112.6	96.8		110.7	95.9		108.3	94.2		102.8	95.3		135			
140		104.6	90.7		92.7			91.7			89.9			101.1	91.7		140		
145		100.5	87.1		88.9			87.8			86				88.5		145		
150		96.6	83.8		85.5	71.5			84.2			82.3				85.4		150	
155			80.7		82.5	67.4			81			79				82.3		155	
160			77.7			63.8			78.1	61.9		76				79.2		160	
165			74.9			60.6				58.5			73.2			76.4		165	
170			72.3			57.9				55.5				52.9		73.7		170	
175			69.8			55.5				53				50			53.3		175
180						53.2				50.7				47.4			50.4		180
185						51.2				48.6				45.3			48		185
190										46.6				43.3			45.9		190
195														41.6			43.9		195
200														39.9			42.2		200
205														40.5			40.5		205

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2EN 126 ft


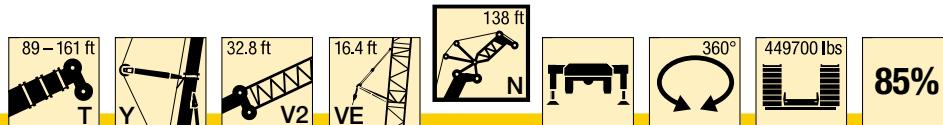
 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft		
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
70	168.7			164.7												70		
75	166.6			162.9			158.5									75		
80	164.8			161.3			157.1			151.3			142.3			80		
85	162.9			159.7			155.6			150			137.8			85		
90	160.9			156.9			151.5			146.4			133			90		
95	158			151.5			146.2			141.5			128.3			95		
100	153			146.4			141.2			136.7			123.8			100		
105	148	143.5		141.5			136.4			132.1			119.5			105		
110	142.4	136.4		136.2	127.6		132			127.7			115.5			110		
115	136	129.9		130.9	121.9		127.7	118.3		123.7			111.7			115		
120	128.4	123.9		126	116.2		123.2	112.9		119.8			108.2			120		
125	121.4	118.4		121.3	111.1		118.6	107.8		115.9	104.9		104.9			125		
130	115.3	113.3		117.1	105.9		114.4	103.1		111.7	100.2		101.9	97		130		
135	109.6	108.6		112.8	101.1		110.6	98.9		107.8	95.9		99.2	93.5		135		
140	104.6	104.2		107.4	96.7		107	94.9		104.2	91.9		96.9	90.2		140		
145	100.2			102.5	92.6		103.9	91		100.9	87.9		94.9	87.1		145		
150	96.3	83.3		89.1			87.3			98	84.4		93.3	84.2		150		
155	92.7	80.2		85.7	71.8		83.9				80.9			81.1			155	
160	89.4	77.3		82.8	68		80.8				77.7			78.1			160	
165	86.1	74.5		80	64.5		77.9	61.9			74.9			75.3			165	
170		71.9		77.8	61.4		75.4	58.7			72.3			72.7			170	
175		69.4			58.9			55.9			69.7	52.1		70.2			175	
180		67.1			56.4			53.4				49.5		67.8			180	
185		64.9			54.2			51.2				47.1			46.5			185
190		62.7			52.2			49.1				45.1			44.3			190
195					50.5			47.2				43.1			42.3			195
200								45.5				41.4			40.5			200
205								43.9				39.8			38.8			205
210												38.4			37.4			210
215												36			36			215

* adapter · pièce d'adaptateur

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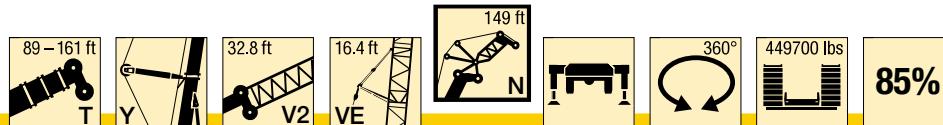
**Lifting capacities
Forces de levage**
TYV2EN 138 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft		
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
70	152.2															70		
75	151.4			148.3												75		
80	149.8			146.8			142.8			137.4						80		
85	148.2			145.3			141.5			136.4			131			85		
90	146.6			143.9			140.3			135.4			127.5			90		
95	145.1			142.5			139.1			134.3			123.6			95		
100	143.5			140.9			137.1			131.3			119.6			100		
105	141.1			137.1			133			127.4			115.6			105		
110	137.1	133.9		132.7			128.7			123.4			111.8			110		
115	132.5	129.2		128.6	123.2		124.7			119.6			108.2			115		
120	126.1	123.2		124.7	117.5		120.8	112.3		115.9			104.7			120		
125	120	117.7		120.4	112.2		116.8	108.1		112.4			101.5			125		
130	114.3	112.7		116.1	107.4		112.7	103.4		109.2	100.4		98.5			130		
135	109	108		111.4	102.9		108.8	99		106.1	96		95.6	91.6		135		
140	104.1	103.6		106.3	98.8		105.2	94.9		102.5	91.9		93.1	88.4		140		
145	99.4	99.5		101.6	94.8		101.9	91.2		99	88.2		90.8	85.3		145		
150	95.1	95.7		97.2	91		98.8	87.6		95.8	84.6		88.8	82.4		150		
155	90.4	92.2	79.4	93.1	87.4		95.2	84.3		93	81.1		87.1	79.7		155		
160		88.8	76.5		84.1		91.4	81		90.3	77.7		85.6	76.9		160		
165		85.7	73.7		81	67.7		77.8			74.6			74.2			165	
170		82.7	71.1		78.2	64.2		75.1	60.2		71.8			71.5			170	
175		79.8	68.7		75.8	61.1		72.4	57.1		69.2			69.1			175	
180			66.4		73.5	58.4		70.2	54.3		66.7	50.2		66.7			180	
185			64.2			55.8		68.1	51.8		64.7	47.7		64.5			185	
190			62.1			53.7			49.5		62.6	45.3		62.4	44.8		190	
195			60.1			51.6			47.4			43.2			42.5		195	
200			58.2			49.7			45.5			41.3			40.5		200	
205						48			43.7			39.5			38.8		205	
210										42.2			37.9			37.1		210
215										40.7			36.5			35.5		215
220												35.1			34.1		220	
225														32.8		225		
230														31.5		230		

* adapter · pièce d'adaptateur

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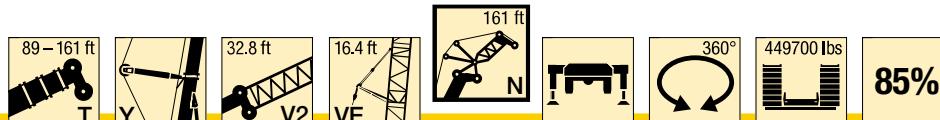
**Lifting capacities
Forces de levage**
TYV2EN 149 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft	
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
75	137															75	
80	136.2			133.2			129.8									80	
85	134.7			131.9			128.6			122.9						85	
90	133.3			130.6			127.5			122.9			118.7			90	
95	132			129.4			126.4			122.3			117.7			95	
100	130.8			128.3			125.5			121.4			114.9			100	
105	129.7			127.3			124.6			120.6			111.5			105	
110	128.9			126.3			123.7			118.9			108.2			110	
115	127.9	121.1		125			121.6			115.5			104.9			115	
120	125.7	120.3		122.3	115.5		118			112.3			101.8			120	
125	120.3	116.8		118.3	111.6		114.5	107.1		109			98.7			125	
130	114	112.1		114.2	107.2		111.2	103		106			95.8			130	
135	108.3	107.4		110.3	102.9		107.7	99.1		103.1	95.4		93.1			135	
140	103.1	103.1		106	98.7		104.2	95.6		100.4	91.9		90.6	86.8		140	
145	98.3	99		101.1	94.8		100.9	91.9		97.9	88.6		88.2	83.9		145	
150	94	95.2		96.4	91.2		97.7	88.3		94.8	85.2		86	81.2		150	
155	89.9	91.7		92.2	87.8		94.3	85		91.9	81.9		84	78.7		155	
160	86.2	88.3		88.3	84.4		90.3	81.9		89.1	78.8		82.2	76.1		160	
165	82.6	85.2	73.1	84.6	81.2		86.5	79		86.5	75.7		80.7	73.8		165	
170	82.2	82.2	70.5	81.2	78.1	65.6	82.9	76.2		84.1	72.8		79.5	71.4		170	
175		79.5	68.1		75.4	62.6		73.6			70			78.6	68.9		175
180		76.8	65.8		72.9	59.5		70.9	56.8		67.4				66.6		180
185			74.3	63.6		70.6	56.7		68.6	53.9		65			64.4		185
190				61.5		68.6	54.2		66.5	51.3		62.9	46.9		62.3		190
195					59.6		52		64.4	49		60.7	44.6		60.3	44.1	195
200					57.7		49.9			46.9		59	42.4		58.3	41.9	200
205						55.9	48			45			40.4		56.5	39.8	205
210						54.2	46.2			43.3			38.7			38	210
215							44.7			41.6			37.1			36.3	215
220							43.3			40.1			35.5			34.7	220
225										38.7				34.2		33.4	225
230														32.9		32.1	230
235														31.7		30.8	235
240															29.7	240	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2EN 161 ft


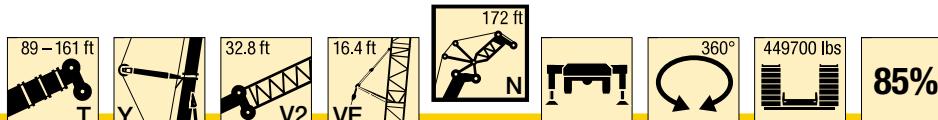
 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
75	123.9															75
80	124			117.9												80
85	122.7			120			117.2									85
90	121.4			119			116.1			112.2			108			90
95	120.2			117.8			115.2			111.3			107.3			95
100	119.1			116.9			114.2			110.5			106.6			100
105	118.1			115.9			113.4			109.8			105.9			105
110	117.1			115.1			112.6			109.1			103.5			110
115	116.2			114.2			111.9			108.4			100.7			115
120	114.7	109.3		113.2			111			107.1			97.8			120
125	112.6	108.7		111.7	106		109.8			104.4			95			125
130	110.1	108.1		109.5	104.8		108.1	99.4		101.6			92.4			130
135	106.5	105.9		107	101.4		105.3	97.2		98.9			89.8			135
140	101.8	102.1		103.9	97.7		102.2	93.7		96.3	89.5		87.3			140
145	97	98.2		100.6	94.3		99.1	90.4		94	86.4		84.9	81.6		145
150	92.8	94.4		96.6	90.9		96	87.3		91.7	83.4		82.7	79.1		150
155	88.7	90.9		92.3	87.5		93	84.3		89.5	80.7		80.7	76.6		155
160	85	87.6		88.2	84.3		90.1	81.3		87.5	78		78.8	74.2		160
165	81.5	84.4		84.6	81.3		86.5	78.4		85.2	75.4		77.1	71.9		165
170	78.2	81.5	69.5	81.2	78.3		82.9	75.6		82.6	72.7		75.5	69.8		170
175	75.1	78.7	67.1	77.9	75.5	62.6	79.6	73		80.3	70.2		74.2	67.7		175
180		76.1	64.8	74.9	72.9	60.5	76.4	70.6		78.2	67.8		73.2	65.5		180
185		73.6	62.6		70.4	58.1		68.2	54.5	75.5	65.5		72.4	63.3		185
190		71.2	60.6		68	55.2		66	52.7		63.2			61.2		190
195		68.9	58.6		65.9	52.6		63.9	49.9		61.1	46.3		59.2		195
200		66.8	56.8		64	50.3		61.9	47.6		58.9	43.7		57.3		200
205			55			48.3		59.9	45.4		57.1	41.5		55.6	40.5	205
210			53.3			46.4			43.4		55.4	39.5		53.8	38.3	210
215			51.7			44.6			41.7			37.7		52.2	36.3	215
220			50.1			43			40.1			36.1			34.6	220
225						41.5			38.6			34.5			33.1	225
230						40.3			37.2			33.1			31.6	230
235									35.9			31.9			30.4	235
240												30.7			29.1	240
245												29.6			28	245
250												26.9			26.9	250

* adapter · pièce d'adaptateur

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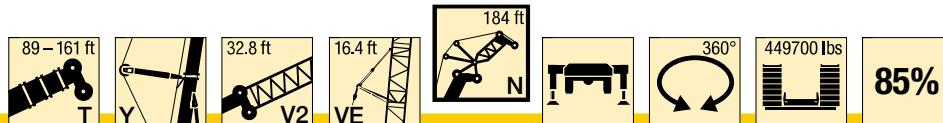


**Lifting capacities
Forces de levage**
TYV2EN 172 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
80	113.3															80
85	112.4			110			107									85
90	111.4			109.1			106.4									90
95	110.3			108.1			105.6									95
100	109.4			107.2			104.8									100
105	108.5			106.4			104									105
110	107.7			105.6			103.3									110
115	106.9			105			102.7									115
120	106.4			104.4			102.2									120
125	105.8	99.2		103.9			101.7									125
130	104.9	98.7		103.4	96.3		101.3									130
135	103.5	98.2		102.3	95.9		100.5	93.2								135
140	101.4	97.9		101	95.6		98.8	92								140
145	98.7	97.3		99.5	92.9		97	89								145
150	94.4	94.2		96.7	89.7		94.7	86								150
155	90.3	91		92.6	86.7		92	83.1								155
160	86.5	87.7		88.7	83.9		89.2	80.4								160
165	83	84.6		84.9	81.1		86.3	77.9								165
170	79.7	81.6		81.5	78.3		83.1	75.5								170
175	76.5	78.9	67.2	78.3	75.6		79.8	72.9								175
180	73.5	76.2	64.9	75.2	73		76.7	70.4								180
185	70.1	73.7	62.7	72.3	70.6	58.2	73.7	68.1								185
190	61.5	71.3	60.6	69.3	68.3	56.2	70.9	65.9	52.5	73	62.9					190
195		69.1	58.7		66.2	54.4		63.8	50.7	70.4	60.8					195
200		66.9	56.8		64.1	52.6		61.8	49.1		58.9					200
205		64.9	55.1		62.1	50.9		59.9	47.4		56.9	41.1				205
210		62.9	53.4		60.2	49		58	45.6		55.1	39.2				210
215			51.7		58.4	47.3		56.3	43.8		53.4	37.4				215
220			50.2			45.6		54.5	42.1		52	35.8				220
225			48.7			44.1			40.6			34.3				225
230			47.3			42.7			39.2			32.9				230
235			45.9			41.3			37.9			31.8				235
240						40.1			36.6			30.5				240
245									35.5			29.4				245
250									34.5			28.4				250
255												27.5				255
260																260
265																265

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2EN 184 ft


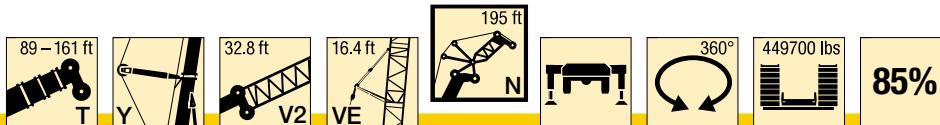
K	ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			ft
		84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
	85	101.6			100.3												85
	90	101.4			99.6			97									90
	95	100.5			98.7			96.2			92.6						95
	100	99.7			97.9			95.5			92.4			89.2			100
	105	98.8			97.1			94.8			91.8			88.7			105
	110	98.1			96.4			94.1			91.3			88.2			110
	115	97.4			95.7			93.5			90.7			87.8			115
	120	96.7			95.1			93			90.2			87.2			120
	125	96.2			94.6			92.4			89.8			86.5			125
	130	95.6	89.5		94.1			92			89.4			85.1			130
	135	95	89.1		93.6	87.2		91.7			88.9			83.1			135
	140	94.1	88.7		92.8	86.9		91.2	84.2		88			81.1			140
	145	93	88.3		91.7	86.7		90.4	84		86.9			79.2			145
	150	91.7	88.1		90.5	86.5		89.4	83.4		85	79.8		77.3			150
	155	89.2	87.7		89.2	84.8		88	80.9		83.1	77.5		75.5	70.9		155
	160	85.4	85.9		86.9	82		86.5	78.2		81.4	75		73.8	69.2		160
	165	81.9	83.2		83.5	79.4		84.6	75.7		79.7	72.6		72.1	67.5		165
	170	78.6	80.6		80.2	76.9		82.1	73.4		78.2	70.3		70.5	65.7		170
	175	75.5	77.9		77	74.6		78.8	71.2		76.6	68.2		69	64		175
	180	72.5	75.3	63.8	73.9	72.3		75.7	69		75.3	66.2		67.7	62.4		180
	185	69.7	72.8	61.6	71	69.9		72.7	67		73.4	64.2		66.4	60.7		185
	190	67.1	70.4	59.6	68.3	67.6	55.3	69.9	64.9		71.4	62.4		65.3	59.2		190
	195	64.5	68.2	57.6	65.8	65.4	53.5	67.3	62.8		69.6	60.5		64.3	57.7		195
	200	58.7	66.1	55.8	63.5	63.4	51.7	64.8	60.8	47.9	67.9	58.6		63.5	56.3		200
	205	64	54		61.4	50	61.7	58.9	46.3	65.4	56.8		63	54.7			205
	210	62.1	52.3		59.6	48.5		57.1	44.9		55	39.8	62.5	53			210
	215	60.2	50.7		57.8	47		55.4	43.4		53.2	37.9		51.4			215
	220	58.4	49.2		56	45.5		53.7	41.9		51.6	36.1		49.8	34.9		220
	225		47.7		54.4	44.1		52.1	40.3		50.1	34.6		48.3	33.2		225
	230		46.3			42.8		50.6	38.8		48.6	33.2		46.9	31.6		230
	235		45			41.6			37.4		47.3	31.8		45.5	30.3		235
	240		43.7			40.3			36			30.5		44.2	29		240
	245		42.4			39.1			34.7			29.3		27.8		245	
	250					38			33.5			28.2		26.6		250	
	255					36.9			32.6			27.2		25.6		255	
	260								31.5			26.2		24.6		260	
	265											25.2		23.7		265	
	270													22.8		270	
	275													22		275	

* adapter · pièce d'adaptateur

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Lifting capacities Forces de levage

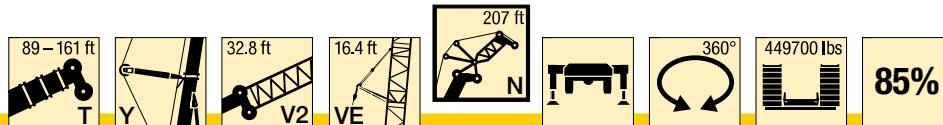
TYV2EN 195 ft



 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft	
	195 ft	84°	76°	66°	195 ft	84°	76°	66°	195 ft	84°	76°	66°	195 ft	84°	76°	66°	
90	90.9				90.5												90
95	91.5				90				88								95
100	90.9				89.3				87.4				84				100
105	90.1				88.6				86.7				83.9				105
110	89.4				88				86.2				83.4				110
115	88.8				87.3				85.6				82.9				115
120	88.1				86.7				85				82.4				120
125	87.6				86.1				84.5				81.9				125
130	87.1				85.7				84				81.5				130
135	86.6	81.1			85.3				83.6				81.1				135
140	86.2	80.7			84.9	79.2			83.3				80.8				140
145	85.9	80.3			84.6	78.8			83	76.8			80.5				145
150	85.6	80			84.4	78.6			82.7	76.5			80.1				150
155	85.4	79.8			84.3	78.3			82.5	76.4			78.8	73			155
160	85.2	79.6			84.1	78.1			81.7	76.3			77.5	72.9			160
165	82.8	79.4			83.4	77.9			80.4	75.4			76	71.6			165
170	79.4	79.3			81	76.3			79.1	73			74.5	69.4			170
175	76.3	77.5			77.8	74			77.8	70.8			73.1	67.3			175
180	73.3	75.2			74.8	71.8			75.8	68.7			71.7	65.3			180
185	70.5	73			71.9	69.7			73.1	66.7			70.5	63.4			185
190	67.8	70.7	59.7	69.1	67.8				70.4	64.9			69.3	61.6			190
195	65.3	68.4	57.8	66.5	65.7	53.4			67.8	63			68.3	59.9			195
200	63	66.3	55.9	64.1	63.6	51.9			65.2	61.3			67.1	58.2			200
205	60.8	64.3	54.2	61.8	61.7	50.2			62.9	59.4	46.6		64.7	56.7			205
210	55.8	62.3	52.5	59.7	59.8	48.6			60.7	57.6	45.2		62.4	55			210
215	60.5	50.9	53.2	58	47.1				57.6	55.9	43.8		60.2	53.4	40.3		215
220		58.7	49.4		56.3	45.7			54.2	42.4			51.8	39	58	49.6	220
225		57	47.9		54.7	44.3			52.6	41.1			50.2	37.2		48.1	34.1
230		55.4	46.5		53.1	43			51.1	39.9			48.8	35.5		46.7	32.4
235			45.2		51.6	41.7			49.6	38.7			47.4	34		45.3	31
240			43.9			40.5			48.2	37.5			46	32.6		44	29.5
245			42.6			39.3				36.4			44.7	31.3		42.8	28.2
250			41.4			38.2				35.4			30.2			41.5	27
255			40.2			37.1				34.3			29			25.8	25.5
260						36				33.3			27.9			24.8	26.0
265						35				32.4			26.9			23.9	26.5
270										31.4			26			23	27.0
275													25.1			22.1	27.5
280													24.3			21.3	28.0
285													20.5			20.5	28.5

* adapter · pièce d'adaptateur

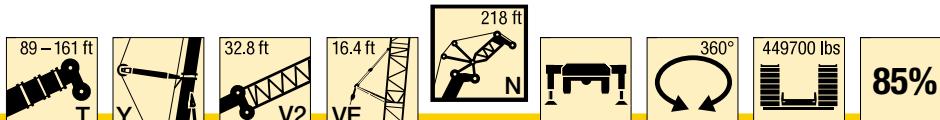
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**Lifting capacities
Forces de levage**
TYV2EN 207 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
90	80.6															90
95	81.5			81.3			76.6									95
100	82			81.4			79.3									100
105	82			80.7			78.9									105
110	81.3			80			78.4									110
115	80.7			79.4			77.8									115
120	80.1			78.9			77.3									120
125	79.5			78.3			76.8									125
130	79			77.8			76.3									130
135	78.3			77.2			75.8									135
140	77.2	73.2		76.2			75									140
145	76.2	72.8		75.2	71.5		74.1									145
150	75.2	72.5		74.2	71.2		73.2	69.3								150
155	74.2	72.2		73.3	70.9		72.3	69.1								155
160	73.2	71.9		72.3	70.7		71.4	68.9								160
165	72.4	71.7		71.5	70.5		70.5	68.7								165
170	71.5	71.6		70.7	70.3		69.8	68.6								170
175	70.7	71.4		69.9	70.2		69	68.3								175
180	69.8	71.1		69.1	69.7		68.3	66.8								180
185	68.5	70.7		68.3	67.8		67.6	64.8								185
190	66.9	69.1		67.5	65.9		66.9	63								190
195	64.4	67.2	56.2	65.6	64		66.1	61.2								195
200	62	65.4	54.5	63.1	62.3		64.3	59.5								200
205	59.8	63.4	53	60.9	60.6	48.6	62	57.9								205
210	57.7	61.5	51.5	58.7	58.9	47.3	59.7	56.4								210
215	55.8	59.6	49.9	56.7	57.1	46	57.6	54.9	42.3							215
220	52.5	57.8	48.4	54.7	55.4	44.6	55.6	53.3	41.1							220
225	45.1	56.2	46.9	50.5	53.8	43.3	53.7	51.7	40							225
230		54.6	45.5		52.3	42		50.2	38.8	52.8						230
235		53	44.2		50.8	40.7			48.8	37.6						235
240		51.5	42.9		49.3	39.5			47.4	36.5						240
245		50.1	41.7		47.9	38.3			46	35.4						245
250			40.5		46.6	37.2			44.7	34.3						250
255			39.4			36.1				33.3						255
260				38.2		35.1				32.3						260
265				37.2		34.1				31.4						265
270				36.1		33.1				30.5						270
275						32.2				29.6						275
280										28.7						280
285										27.9						285
290																290
295																295
300																300

* adapter · pièce d'adaptateur

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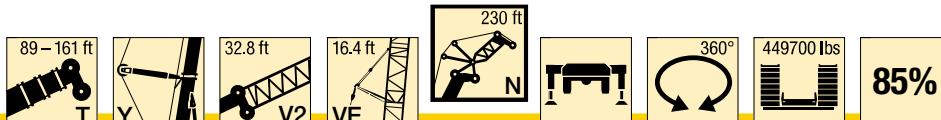
**Lifting capacities
Forces de levage**
TYV2EN 218 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft			
	218 ft	84°	76°	66°	218 ft	84°	76°	66°	218 ft	84°	76°	66°	218 ft	84°	76°	66°			
95	72.5				72.1												95		
100	73.4				73.2				68				64.4				100		
105	74.1				73.6				70.7				68.5				105		
110	74.2				73.3				71.7				69.5				110		
115	73.8				72.7				71.2				69.3				115		
120	73.3				72.1				70.7				68.8				120		
125	72.8				71.6				70.2				68.4				125		
130	72.2				71.1				69.8				67.9				130		
135	71.7				70.6				69.3				67.6				135		
140	71.1				70				68.8				67.2				140		
145	70.3	66.4			69.3				68.2				66.6				145		
150	69.4	66			68.5	64.8			67.4				66				150		
155	68.6	65.8			67.7	64.5			66.7	62.9			65.3				155		
160	67.8	65.5			66.9	64.3			65.9	62.7			64.6	60.4			160		
165	67	65.2			66.2	64.1			65.2	62.5			63.9	60.3			165		
170	66.3	65			65.5	63.9			64.5	62.3			63.3	60.2		61.4	57.1	170	
175	65.6	64.8			64.8	63.7			63.8	62.2			62.7	60.1		60.3	56.2	175	
180	65	64.7			64.1	63.6			63.2	62.1			62	60		59.1	55	180	
185	64.3	64.6			63.5	63.5			62.6	62			61.4	59.2		58	54	185	
190	63.6	64.5			62.9	63.3			62.1	61.3			60.9	58		56.9	52.8	190	
195	62.8	64.2			62.4	62.5			61.5	59.6			60.4	56.8		55.9	51.6	195	
200	61.4	63.8			61.8	60.8			61	58			59.7	55.4		54.9	50.5	200	
205	59.1	62.1	51.6	60.1	59.1				60.4	56.4			58.8	53.9		54	49.3	205	
210	57	60.5	50.1	58	57.5	45.9			58.9	54.9			57.9	52.5		53.1	48.3	210	
215	55	58.9	48.8	55.9	56	44.6			56.8	53.5			57	51.1		52.3	47.2	215	
220	53.1	57.2	47.4	54	54.6	43.3			54.9	52.1	39.7		55.7	49.7		51.5	46.2	220	
225	51.4	55.6	46.2	52.2	53.1	42.2			53.1	50.7	38.6		53.9	48.5		50.8	45.1	225	
230	49.1	54	44.8	50.5	51.6	41			51.3	49.5	37.6		52.1	47.2	34.5	50.1	44.2	230	
235	43.5	52.4	43.5	47.6	50.1	39.9			49.6	48.1	36.6		50.4	46.1	33.5	49.3	43.3	235	
240	51	42.2			48.7	38.8			45.5	46.7	35.6		48.4	44.9	32.6	48.1	42.3	240	
245		49.6	41		47.4	37.6			45.4	34.6			43.6	31.7		41.3	28.4	245	
250		48.2	39.8		46	36.5			44.1	33.6			42.4	30.8		40.3	27.6	250	
255		46.8	38.7		44.8	35.5			42.9	32.6			41.2	30		39.1	26.6	255	
260		37.6			43.5	34.4			41.7	31.6			40.1	29.1		38	25.4	260	
265		36.6			33.4				40.5	30.7			38.9	28.2		36.9	24.3	265	
270		35.6			32.5					29.8				37.8	27.4		35.9	23.2	270
275		34.6			31.6					28.9					26.6		34.9	22.2	275
280		33.6			30.7					28.1					25.8		21.3	280	
285					29.8					27.3					24.9		20.4	285	
290										26.5					24		19.6	290	
295										25.7					23.3		18.9	295	
300															22.5		18.1	300	
305																17.4	305		
310																16.7	310		

* adapter · pièce d'adaptateur

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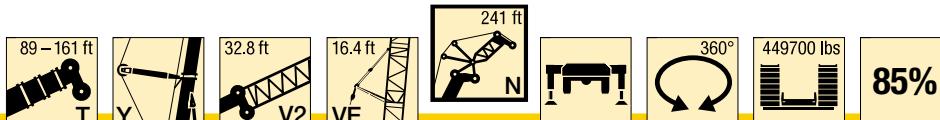
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**Lifting capacities
Forces de levage**
TYV2EN 230 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft	
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°		
100	65.2			64.4												100	
105	65.8			65.8			60.6			57						105	
110	66.4			66.5			63			60.4			55.1			110	
115	66.8			66.3			64.5			62.2			58.6			115	
120	66.6			65.8			64.5			62.4			60.4			120	
125	66.2			65.3			64.1			62.4			60.5			125	
130	65.7			64.8			63.6			62.2			60.1			130	
135	65.3			64.4			63.2			61.8			59.8			135	
140	64.8			64			62.8			61.5			59.5			140	
145	64.5			63.6			62.4			61			59.2			145	
150	63.8	60		63			62			60.4			58.8			150	
155	63.1	59.7		62.2	58.6		61.3			59.7			58.4			155	
160	62.3	59.4		61.5	58.3		60.6	56.8		59.1			57.9			160	
165	61.6	59.2		60.8	58.1		59.9	56.6		58.4	54.9		57.3			165	
170	60.9	59		60.1	57.9		59.2	56.4		57.8	54.8		56.7			170	
175	60.2	58.8		59.4	57.7		58.6	56.3		57.2	54.7		56.1	52		175	
180	59.5	58.5		58.7	57.5		57.9	56.2		56.6	54.6		55.5	51.9		180	
185	58.8	58.4		58.1	57.4		57.3	56.1		56	54.5		55	51.3		185	
190	58.1	58.3		57.4	57.3		56.6	56		55.4	54.5		54.2	50.3		190	
195	57.6	58.1		56.9	57.2		56.1	55.9		54.8	54.1		53.3	49.4		195	
200	57	58		56.3	56.9		55.7	55.9		54.3	53.1		52.3	48.4		200	
205	56.4	57.6		55.8	56.7		55.2	54.6		53.8	52.1		51.5	47.4		205	
210	55.6	57.1	48.5	55.3	55.8		54.7	53.1		53.3	51.1		50.6	46.4		210	
215	54.1	56.7	47.1	54.6	54.3		54.2	51.7		52.9	50		49.8	45.4		215	
220	52.3	55.7	45.8	53.1	52.9	41.7	53.6	50.4		52.5	48.7		48.9	44.5		220	
225	50.4	54.3	44.5	51.2	51.5	40.5	52.1	49.1	37	52.1	47.5		48.1	43.5		225	
230	48.7	52.9	43.3	49.5	50.2	39.4	50.3	47.8	35.9	51.5	46.2		47.3	42.6		230	
235	47.2	51.6	42.2	47.9	49	38.3	48.6	46.6	34.9	50	45.1	32.6	46.6	41.8		235	
240	45.5	50.1	41.1	46.3	47.8	37.3	47	45.4	34	48.5	44	31.7	45.9	40.9		240	
245	41.1	48.7	40	44.3	46.5	36.3	45.5	44.3	33	47.3	42.9	30.8	45.3	40.1	27.5	245	
250		47.3	38.9		45.2	35.3	43	43.2	32.1	45.3	41.8	29.9	44.6	39.4	26.7	250	
255		46	37.7		43.9	34.4		42	31.3		40.8	29.1	43.6	38.4	25.9	255	
260		44.8	36.7		42.7	33.4		40.9	30.4		39.7	28.3		37.5	25.2	260	
265		43.6	35.6		41.5	32.5		39.7	29.6		38.6	27.5		36.6	24.2	265	
270			34.6		40.4	31.5		38.6	28.8		37.5	26.8		35.5	23.2	270	
275			33.7			30.6		37.6	27.9		36.5	26.1		34.5	22.2	275	
280			32.7			29.7			27.1			35.4	25.3		33.6	21.3	280
285			31.8			28.9			26.3			24.5		32.6	20.4	285	
290			30.9			28			25.5			23.7			19.5	290	
295						27.2			24.8			22.9			18.6	295	
300						26.4			24			22.1			17.8	300	
305									23.3			21.3			17.1	305	
310												20.6			16.4	310	
315												19.9			15.7	315	
320															15.1	320	

* adapter · pièce d'adaptateur

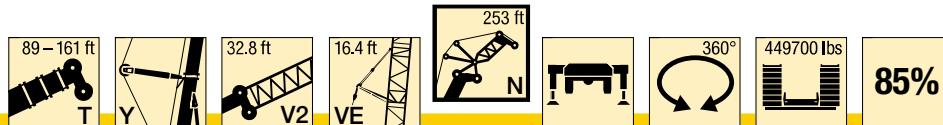
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**Lifting capacities
Forces de levage**
TYV2EN 241 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft	
	241 ft	84°	76°	66°	241 ft	84°	76°	66°	241 ft	84°	76°	66°	241 ft	84°	76°	66°	
100	57.1																100
105	57.5				57.1				53								105
110	57.9				58				54.3								110
115	58.2				58.8				55.5								115
120	58.5				58.4				56.7								120
125	58.6				57.9				56.9								125
130	58.3				57.4				56.5								130
135	57.8				57				56								135
140	57.3				56.5				55.6								140
145	56.8				56				55.1								145
150	56.2				55.5				54.7								150
155	55.6	53.8			55				54.2								155
160	55	53.6			54.4	52.7			53.7								160
165	54.4	53.3			53.8	52.4			53.1	51.1							165
170	53.9	53			53.3	52.2			52.6	51			51.7	49.2			170
175	53.4	52.8			52.8	52			52.1	50.8			51.2	49.1			175
180	52.8	52.6			52.3	51.8			51.6	50.6			50.8	49			180
185	52.4	52.4			51.8	51.6			51.2	50.5			50.4	48.9			185
190	52	52.1			51.4	51.4			50.8	50.3			49.9	48.8			190
195	51.5	51.8			51	51.1			50.4	50.2			49.6	48.7			195
200	51.1	51.4			50.6	50.8			50	50			49.2	48.7			200
205	50.8	51.1			50.2	50.5			49.7	49.7			48.9	48.6			205
210	50.4	50.8			49.9	50.2			49.3	49.5			48.6	48.2			210
215	50.1	50.6	45.7		49.6	50			49	49.3			48.3	47.4			215
220	49.9	50.3	45.1		49.3	49.7			48.7	49			48	46.6			220
225	49.7	50.1	43.9		49.1	49.5	39.9		48.5	48.4			47.7	45.8			225
230	49.2	49.9	42.7		48.9	49.3	38.8		48.4	47.2			47.6	44.9			230
235	47.6	49.7	41.6		48.3	48.3	37.8		48.2	46	34.4		47.3	43.8			235
240	46	49.5	40.5		46.7	47.1	36.7		47.5	44.8	33.5	47	42.8	30.5			240
245	44.5	48.5	39.4		45.2	46	35.8		45.9	43.7	32.5	46.1	41.7	29.6			245
250	42.3	47.3	38.4		43.7	44.9	34.8		44.4	42.7	31.7	44.8	40.7	28.8			250
255	38.6	46	37.5		41.5	43.8	33.9		43	41.7	30.8	43.6	39.7	28			255
260		44.7	36.5		37.4	42.6	33		40.2	40.7	30	42	38.7	27.2			260
265		43.5	35.5			41.5	32.2			39.7	29.2	38.3	37.8	26.5			265
270		42.3	34.5			40.3	31.3			38.6	28.4		36.9	25.7			270
275		41.2	33.5			39.2	30.5			37.5	27.7		36	25			275
280			32.6			38.2	29.6			36.5	26.9		35	24.4			280
285			31.7			37.1	28.8			35.5	26.2		34	23.7			285
290			30.8				27.9				25.4		33	23.1			290
295			29.9				27.1				24.6		22.4				295
300			29.1				26.3				23.9		21.7				300
305			28.2				25.6				23.2		21				305
310							24.8				22.5		20.3				310
315											21.8		19.5				315
320													18.8				320
325													18.2				325
330														12			330

* adapter · pièce d'adaptateur

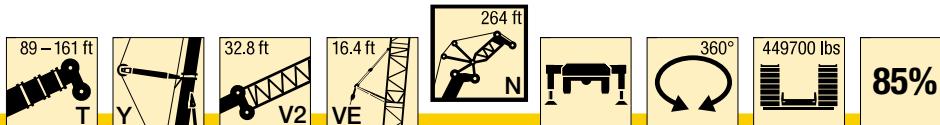
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**Lifting capacities
Forces de levage**
TYV2EN 253 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft		
	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°			
105	51.9			51						39.6						105		
110	52.2			51.7			47.6									110		
115	52.4			52.3			48.6			42.3			41.8			115		
120	52.6			52.8			49.8			45.4			44.6			120		
125	52.8			53.2			50.7			48.2			47			125		
130	52.9			52.8			51.4			50.1			48.6			130		
135	53			52.4			51.5			50.3			49			135		
140	52.6			51.9			51.1			50			48.7			140		
145	52.2			51.5			50.7			49.6			48.3			145		
150	51.8			51.1			50.3			49.2			48			150		
155	51.4			50.7			49.9			48.9			47.7			155		
160	50.9	48.7		50.2			49.5			48.5			47.3			160		
165	50.4	48.4		49.8	47.6		49.1			48.2			47			165		
170	49.9	48.2		49.3	47.4		48.7	46.2		47.8			46.7			170		
175	49.4	47.9		48.8	47.2		48.2	46.1		47.4	44.5		46.3			175		
180	48.9	47.7		48.4	47		47.8	45.9		47	44.4		46	42.6		180		
185	48.4	47.6		47.9	46.8		47.4	45.8		46.6	44.2		45.6	42.6		185		
190	48	47.4		47.5	46.7		46.9	45.6		46.2	44.2		45.3	42.5		190		
195	47.6	47.2		47.1	46.5		46.5	45.5		45.8	44.1		44.9	42.4		195		
200	47.2	47.1		46.8	46.3		46.2	45.4		45.5	44		44.5	42.4		200		
205	46.9	46.9		46.4	46.2		45.8	45.3		45.1	43.9		44.2	41.8		205		
210	46.5	46.7		46	46.1		45.5	45.2		44.8	43.9		43.8	41		210		
215	46.2	46.5		45.7	45.9		45.2	45.1		44.5	43.9		43.4	40.2		215		
220	45.9	46.3		45.4	45.7		44.9	44.9		44.2	43.8		42.7	39.4		220		
225	45.6	46	41.1	45.2	45.5		44.6	44.8		43.9	43.1		42	38.6		225		
230	45.4	45.8	41.1	44.9	45.3	37.2	44.3	44.6		43.6	42.4		41.3	37.9		230		
235	45.2	45.6	40	44.6	45.1	36.2	44	44.3		43.3	41.7		40.6	37.1		235		
240	44.8	45.4	39	44.4	44.9	35.2	43.8	43.3	31.9	43.1	41		40	36.4		240		
245	43.6	45.2	37.9	44	44.4	34.2	43.6	42.2	31	42.9	40.1		39.4	35.8		245		
250	42.2	45	36.9	42.8	43.4	33.3	43.2	41.1	30.1	42.6	39.1	27.3	38.8	35.1		250		
255	40.8	44.7	36	41.4	42.3	32.4	42.1	40.1	29.3	42.1	38.1	26.5	38.3	34.5	23.7	255		
260	39.1	43.7	35	40.1	41.3	31.6	40.7	39.2	28.5	40.9	37.2	25.7	37.7	33.9	23	260		
265	36.1	42.6	34.1	38.4	40.3	30.7	39.4	38.2	27.7	39.6	36.3	25	36.8	33.3	22.3	265		
270	41.5	33.3	35	39.4	29.9		37.4	37.3	26.9	38.4	35.4	24.3	35.8	32.8	21.7	270		
275		40.4	32.4		38.4	29.1	33.5	36.5	26.2	35.9	34.6	23.6	34.9	32.3	21	275		
280		39.3	31.6		37.4	28.4		35.6	25.5		33.8	22.9		31.8	20.4		280	
285		38.2	30.8		36.4	27.7		34.7	24.8		33	22.3		31.3	19.8		285	
290		37.1	29.9		35.4	27		33.7	24.2		32.2	21.7		30.6	18.9		290	
295			29.1		34.4	26.2		32.8	23.5		31.3	21.1		29.9	17.7		295	
300			28.2			25.4		31.9	22.9		30.4	20.5		29.1	16.5		300	
305			27.4			24.7			22.3		29.6	19.9		28.3	15.3		305	
310			26.7			24			21.6			19.4			14.1		310	
315			25.9			23.3			20.9			18.6			13		315	
320						22.5			20.3			17.9			11.9		320	
325										19.6			16.8			10.8		325
330										19			15.5			9.7		330
335													14.3			8.7		335
340																7.6		340
345																6.4		345

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2EN 264 ft


 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft		
	264 ft	84°	76°	66°	264 ft	84°	76°	66°	264 ft	84°	76°	66°	264 ft	84°	76°	66°		
110	47				45.7												110	
115	47.3				46.5				42.6				34.8				115	
120	47.4				46.9				43.5				36.1				120	
125	47.5				47.3				44.4				38.8				125	
130	47.5				47.6				45.3				41.4				130	
135	47.5				47.8				46.3				43.7				135	
140	47.4				47.4				46.6				45.2				140	
145	47.1				46.7				46				45.1				145	
150	46.6				46.1				45.4				44.5				150	
155	46				45.5				44.9				44				155	
160	45.4				44.9				44.3				43.5				160	
165	44.8	44			44.3				43.7				42.9				165	
170	44.2	43.7			43.7	43			43.1				42.4				170	
175	43.6	43.4			43.1	42.8			42.6	41.8			41.9				175	
180	42.9	43.1			42.5	42.5			42	41.6			41.3	40.2			180	
185	42.3	42.7			41.9	42.2			41.4	41.4			40.8	40.1			185	
190	41.7	42.2			41.3	41.8			40.9	41.1			40.3	40			190	
195	41.1	41.7			40.8	41.3			40.4	40.7			39.7	39.7			195	
200	40.6	41.3			40.2	40.9			39.8	40.3			39.2	39.3			200	
205	40.1	40.8			39.7	40.4			39.3	39.9			38.7	39			205	
210	39.5	40.4			39.2	40			38.8	39.5			38.3	38.6			210	
215	39	40			38.7	39.6			38.3	39.1			37.8	38.3			215	
220	38.6	39.5			38.2	39.2			37.9	38.7			37.4	38			220	
225	38.1	39.1			37.7	38.8			37.4	38.4			36.9	37.6			225	
230	37.6	38.7	36.7		37.2	38.4			36.9	38			36.5	37.3			230	
235	37.1	38.3	36.6		36.8	38			36.5	37.6			36	37			235	
240	36.7	37.9	36.3		36.3	37.6	34.2		36	37.3			35.6	36.7			240	
245	36.4	37.5	36.1		36	37.2	33.3		35.6	36.9	30		35.2	36.4			245	
250	36	37.1	35.8		35.7	36.9	32.4		35.3	36.6	29.2		34.9	36.1			250	
255	35.7	36.7	35		35.5	36.5	31.5		35	36.3	28.4		34.6	35.8	25.5		255	
260	35.5	36.4	34.1		35.2	36.1	30.6		34.8	35.9	27.6		34.3	35.4	24.8		260	
265	35.3	36.2	33.2		34.9	35.8	29.8		34.6	35.6	26.8		34.2	35.1	24.1		265	
270	35.2	36	32.4		34.9	35.6	29		34.5	35.3	26		34	34.4	23.4		270	
275	33.7	35.8	31.6		34.7	35.4	28.2		34.4	35.1	25.3		33.9	33.6	22.7		275	
280	30.4	35.6	30.8		32.9	35.3	27.5		34.1	34.6	24.6		33.9	32.8	22.1		280	
285		35.6	30			35.2	26.8		31.7	33.8	24		33.4	32.1	21.4		285	
290		35.5	29.2			34.9	26.1			33.1	23.3			31.3	20.8			290
295		35.5	28.5			34.1	25.4			32.3	22.7			30.6	20.2			295
300		34.5	27.8			33.2	24.8			31.6	22.1			29.9	19.7			300
305			27			32.3	24.1			30.7	21.5			29.2	19.1			305
310			26.3				23.5			29.8	20.9			28.4	18.1			310
315			25.5				22.9				20.4			27.6	16.9			315
320			24.8				22.2				19.8				15.7			320
325			24.1				21.5				19.2				14.5			325
330							20.9				18.6				13.4			330
335							20.2				17.9				12.3			335
340											16.6				11.1			340
345															10			345
350															8.8			350

* adapter · pièce d'adaptateur

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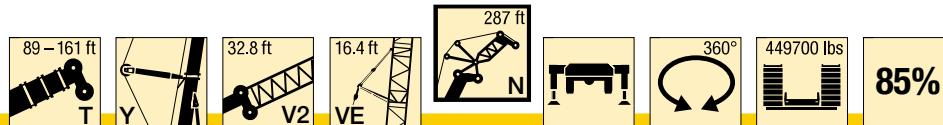


**Lifting capacities
Forces de levage**
TYV2EN 276 ft


K	ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			ft
		84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
	110	41.9															110
	115	42.3			40.9			37.2									115
	120	42.5			41.5			38				31					120
	125	42.7			42.2			38.8				32					125
	130	42.7			42.8			39.6				33.2					130
	135	42.6			43.2			40.4				35.5					135
	140	42.6			43.1			41.1				37.8					140
	145	42.6			42.7			41.5				39.5					145
	150	42.4			42.2			41.5				40.3					150
	155	42.1			41.6			41				40.2					155
	160	41.6			41.1			40.5				39.7					160
	165	41.1			40.5			40				39.2					165
	170	40.5	39.6		40			39.4				38.7					170
	175	40	39.3		39.5	38.7		38.9				38.2					175
	180	39.4	39.1		39	38.6		38.4	37.6			37.8					180
	185	38.9	38.8		38.4	38.3		37.9	37.4			37.3	36.1				185
	190	38.3	38.4		37.9	37.9		37.4	37.3			36.8	36				190
	195	37.8	38		37.4	37.5		37	36.9			36.4	35.9				195
	200	37.2	37.6		36.9	37.1		36.5	36.5			35.9	35.6				200
	205	36.7	37.2		36.4	36.8		36	36.2			35.5	35.3				205
	210	36.2	36.8		35.9	36.4		35.5	35.8			35	35				210
	215	35.7	36.4		35.4	36		35	35.5			34.5	34.7				215
	220	35.2	36		34.9	35.7		34.5	35.2			34.1	34.4				220
	225	34.6	35.6		34.4	35.3		34	34.9			33.6	34.1				225
	230	34.1	35.2		33.8	35		33.5	34.5			33.1	33.8				230
	235	33.6	34.8	32.9	33.3	34.6		33.1	34.2			32.7	33.5				235
	240	33.2	34.4	32.7	32.9	34.2		32.6	33.8			32.2	33.3				240
	245	32.8	34	32.6	32.5	33.8	31.7	32.2	33.5			31.8	32.9				245
	250	32.4	33.5	32.3	32.1	33.4	30.8	31.8	33.1			31.5	32.6				250
	255	32	33.1	32.1	31.7	33	30	31.5	32.7	26.9	31.1	32.3					255
	260	31.7	32.8	31.9	31.4	32.6	29.1	31.1	32.4	26.1	30.8	32					260
	265	31.5	32.5	31.6	31.2	32.2	28.3	30.8	32	25.3	30.5	31.7	22.6	30			265
	270	31.2	32.2	31	31	31.9	27.6	30.6	31.7	24.6	30.2	31.3	21.9	29.7	28.8	18.4	270
	275	31	31.9	30.1	30.7	31.7	26.8	30.4	31.4	23.9	30	31	21.3	29.5	28.3	17.1	275
	280	30.9	31.7	29.4	30.5	31.4	26.1	30.2	31.2	23.2	29.8	30.8	20.6	29.4	27.9	15.8	280
	285	30.5	31.4	28.6	30.5	31.2	25.4	30.1	30.9	22.6	29.7	30.6	20	29.3	27.4	14.5	285
	290	28.3	31.3	27.9	30	31	24.7	30.1	30.7	21.9	29.7	29.9	19.4	29.1	27	13.2	290
	295	31.1	27.2	27.3	30.9	24	29.3	30.6	21.3	29.7	29.2	18.8	28.4	26.6	12.1		295
	300	31.1	26.5		30.8	23.4		30.2	20.7	28.1	28.5	17.7	27.7	26.2	10.9		300
	305	31.1	25.8		30.7	22.8		29.5	20.1		27.8	16.4		26	9.8		305
	310	31.1	25.2		30.5	22.2		28.9	19.6		27.2	15.2		25.6	8.7		310
	315		24.6		29.8	21.6		28.2	19		26.6	14		25	7.6		315
	320		23.9			21		27.4	18.5		26	12.9		24.5	6.6		320
	325		23.3			20.5			17.8		25.3	11.7		23.9	5.5		325
	330		22.6			20			16.6			10.6		23.3	4.5		330
	335		21.9			19.4			15.4			9.5			3.6		335
	340					18.8			14.2			8.5					340
	345					18.1			13			7.4					345
	350									11.8			6.4				350
	355											5.3					355
	360											4.2					360

* adapter · pièce d'adaptateur

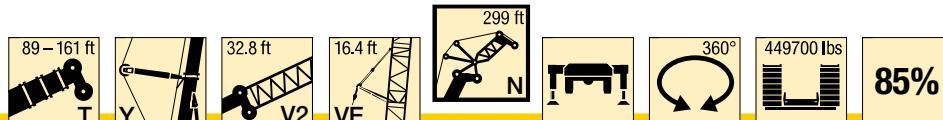
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**Lifting capacities
Forces de levage**
TYV2EN 287 ft

85%

 ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			 ft		
	287 ft	84°	76°	66°	287 ft	84°	76°	66°	287 ft	84°	76°	66°	287 ft	84°	76°	66°		
115	36.2																115	
120	36.1				35.9				32.9				26.8				120	
125	36				36.1				33.6				27.5				125	
130	35.9				36.3				34.1				28.2				130	
135	35.8				36.3				34.5				29.2				135	
140	35.7				36.1				34.8				30.1				140	
145	35.5				35.7				34.9				31.6				145	
150	35.3				35.2				34.7				33.2				150	
155	34.9				34.7				34.2				33.5				155	
160	34.5				34.2				33.8				33.2				160	
165	34.1				33.7				33.3				32.8				165	
170	33.6				33.3				32.9				32.4				170	
175	33.2	33			32.8				32.4				31.9				175	
180	32.7	32.6			32.4	32.3			32				31.5				180	
185	32.3	32.3			32	31.9			31.6	31.4			31.1				185	
190	31.9	31.9			31.6	31.6			31.2	31.1			30.7	30.3			190	
195	31.5	31.6			31.1	31.3			30.8	30.8			30.4	30			195	
200	31.1	31.3			30.8	30.9			30.4	30.5			30	29.7			200	
205	30.7	30.9			30.4	30.6			30.1	30.2			29.6	29.5			205	
210	30.4	30.6			30	30.3			29.7	29.9			29.3	29.2			210	
215	30	30.3			29.7	30			29.3	29.6			28.9	29			215	
220	29.7	30.1			29.4	29.7			29	29.3			28.6	28.7			220	
225	29.3	29.8			29.1	29.4			28.7	29			28.3	28.5			225	
230	29	29.5			28.8	29.1			28.4	28.8			28.1	28.2			230	
235	28.8	29.2			28.5	28.9			28.2	28.5			27.8	28			235	
240	28.5	28.9			28.2	28.6			27.9	28.3			27.6	27.8			240	
245	28.3	28.7	27.1	28	28.4				27.7	28			27.3	27.6			245	
250	28	28.5	27	27.8	28.2	26.4			27.5	27.8			27.1	27.4			250	
255	27.8	28.3	26.8	27.6	28	26.3			27.3	27.6			26.9	27.2			255	
260	27.7	28.1	26.7	27.4	27.8	26.2			27.1	27.4	25.3	26.7	27				260	
265	27.5	27.9	26.6	27.2	27.6	26.1			26.9	27.3	24.6	26.5	26.8				265	
270	27.3	27.8	26.5	27.1	27.4	26			26.8	27.1	23.9	26.4	26.7	21.2	25	25.9	270	
275	26.9	27.6	26.4	26.9	27.3	25.9			26.8	27	23.2	26.3	26.6	20.6	24.6	25.7	15.6	275
280	26.4	27.5	26.3	26.4	27.2	25.4			26.4	26.8	22.5	26.2	26.4	19.9	24.1	25.6	14.3	280
285	26	27.4	26.2	25.9	27.1	24.7	26		26.7	21.9	25.9	26.3	19.3	23.7	25.5	13.1	285	
290	25.7	27.2	26.2	25.6	27	24	25.5		26.7	21.3	25.5	26.3	18.4	23.3	25.3	11.8	290	
295	25.4	27	26.1	25.3	26.9	23.4	25.2		26.6	20.6	25.1	26.2	17.1	23	25.1	10.6	295	
300	25.2	26.6	25.8	25.1	26.7	22.7	25		26.5	20.1	24.8	26.2	15.8	22.8	24.8	9.5	300	
305	23.7	26.1	25.1	24.9	26.3	22.1	24.9		26.5	19.5	24.7	26.1	14.6	22.6	24.5	8.4	305	
310	25.8	24.5			25.9	21.5			26.1	18.9	24.7	26.1	13.3	22.4	24.1	7.3	310	
315	25.6	23.9			25.5	21			25.7	18.4			25.9	12.2			315	
320	25.4	23.3			25.4	20.4			25.4	17.3			25.3	11.1			320	
325		22.7			25.3	19.9			25.2	16.1			24.7	9.9			325	
330		22.2			25.2	19.3			25.1	14.9			24.2	8.9			330	
335		21.6				18.8			25	13.7			23.6	7.8			335	
340		21.1				18.2				12.6			6.7				340	
345		20.4				17.1				11.5			5.8				345	
350		19.8				15.9				10.4			4.7				350	
355						14.6				9.2			3.8				355	
360										8.1							360	
365										7							365	

* adapter · pièce d'adaptateur

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**Lifting capacities
Forces de levage**
TYV2EN 299 ft


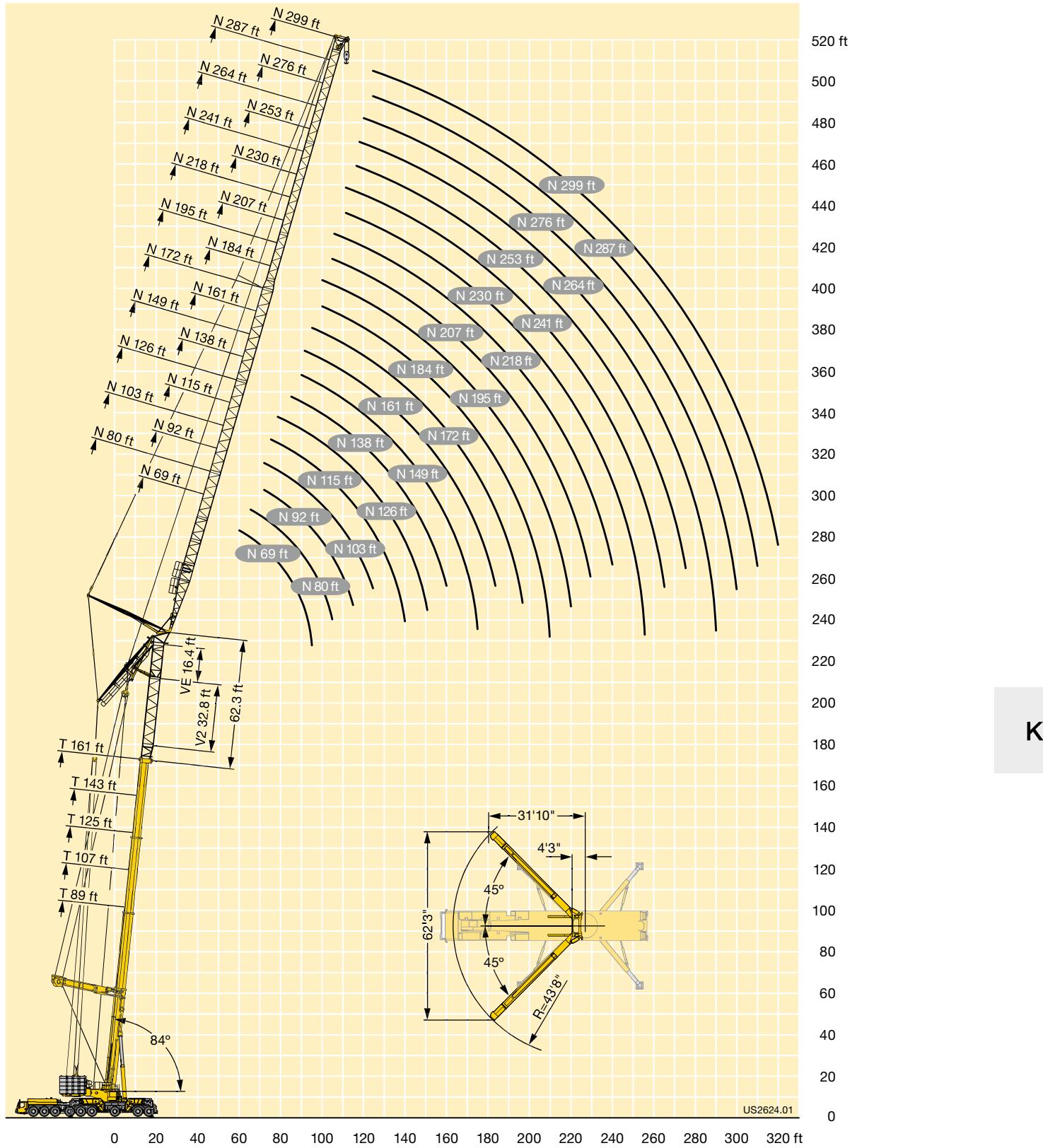
K	ft	89 + 62.3 ft*			107 + 62.3 ft*			125 + 62.3 ft*			143 + 62.3 ft*			161 + 62.3 ft*			ft
		84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	84°	76°	66°	
	120	32.9			31.7						24.1			17.4			120
	125	32.8			32.1			29.8									125
	130	32.7			32.5			30.3			24.7			18.4			130
	135	32.6			32.7			30.7			25.4			20.7			135
	140	32.4			32.9			31			26.1			23.7			140
	145	32.3			32.8			31.2			26.7			25.8			145
	150	32.2			32.6			31.3			27.8			27.5			150
	155	32			32.2			31.1			29			28.8			155
	160	31.7			31.7			30.8			29.9			29.3			160
	165	31.5			31.3			30.4			29.9			29.3			165
	170	31.2			30.9			30			29.5			28.9			170
	175	30.8			30.5			29.6			29.1			28.6			175
	180	30.4	30.1		30.1			29.2			28.8			28.3			180
	185	30	29.8		29.7	29.5		28.9			28.4			27.9			185
	190	29.6	29.5		29.3	29.2		28.5	28.3		28.1			27.6			190
	195	29.2	29.2		28.9	28.9		28.1	28		27.8	27.4		27.3			195
	200	28.8	28.9		28.6	28.6		27.8	27.7		27.4	27.1		26.9	26.3		200
	205	28.5	28.6		28.2	28.3		27.5	27.5		27.1	26.9		26.6	26.1		205
	210	28.2	28.3		27.8	28		27.1	27.2		26.8	26.6		26.3	25.9		210
	215	27.8	28		27.5	27.7		26.8	27		26.5	26.4		26.1	25.7		215
	220	27.5	27.7		27.1	27.5		26.5	26.7		26.2	26.2		25.8	25.5		220
	225	27.2	27.4		26.9	27.2		26.2	26.5		25.9	25.9		25.5	25.3		225
	230	26.9	27.1		26.6	26.9		25.9	26.2		25.6	25.7		25.2	25.1		230
	235	26.6	26.9		26.3	26.6		25.6	25.9		25.3	25.5		24.9	24.9		235
	240	26.3	26.7		26.1	26.4		25.3	25.7		25	25.3		24.6	24.7		240
	245	26.1	26.4		25.8	26.2		24.9	25.5		24.7	25.1		24.3	24.5		245
	250	25.8	26.2	24.7	25.6	25.9		24.6	25.3		24.3	24.9		24	24.3		250
	255	25.6	26	24.5	25.3	25.7		24.2	25.1		24	24.7		23.7	24.2		255
	260	25.3	25.8	24.4	25.1	25.5	23.9	23.9	24.8		23.7	24.5		23.4	24		260
	265	25.1	25.6	24.3	24.8	25.3	23.8	23.6	24.5	23	23.4	24.2		23.1	23.8		265
	270	24.8	25.5	24.2	24.5	25.2	23.7	23.3	24.2	22.9	23	24		22.8	23.6		270
	275	24.5	25.3	24.1	24.3	25	23.6	22.9	24	22.5	22.7	23.7	19.9	22.5	23.3		275
	280	24.2	25	24	24	24.8	23.5	22.6	23.7	21.9	22.4	23.5	18.6	22.2	23.1		280
	285	24	24.8	23.9	23.8	24.6	23.3	22.4	23.4	21.2	22.2	23.2	17.2	21.9	22.9	9.9	285
	290	23.8	24.5	23.8	23.6	24.4	22.6	22.1	23.2	20.6	21.9	23	15.9	21.7	22.7	8.7	290
	295	23.6	24.4	23.6	23.4	24.2	22	22	22.9	20	21.7	22.8	14.6	21.5	22.5	7.6	295
	300	23.6	24.2	23.5	23.3	24	21.4	21.9	22.7	19.4	21.6	22.5	13.3	21.3	22.3	6.4	300
	305	23.6	24	23.4	23.3	23.8	20.8	21.8	22.4	18.8	21.5	22.3	12.1	21.3	22.1	5.3	305
	310	23.5	23.9	23.1	23.3	23.6	20.2	21.8	22.3	17.5	21.5	22.1	10.9	21.2	21.9	4.3	310
	315	23.8	22.6	23.2	23.5	19.6	21.8	22.1	16.2	21.5	21.9	9.8	21.2	21.7			315
	320	23.8	22		23.4	19.1	21.8	22	15	21.5	21.8	8.7	21.2	21.5			320
	325	23.8	21.4		23.4	18.6		21.9	13.8		21.7	7.6			21.4		325
	330	23.8	20.9		23.4	18.1		21.9	12.6		21.6	6.5			21.3		330
	335	23.8	20.4		23.4	17		21.9	11.5		21.6	5.5			21.2		335
	340		19.8		23.4	15.8		21.9	10.3		21.6	4.5			20.9		340
	345		19.3			14.6		21.9	9.2		21.6	3.5			20.3		345
	350		18.8			13.5			8.2		21.4				19		350
	355		17.8			12.3			7.1						17.6		355
	360		16.4			11.1				6							360
	365					10				5							365
	370					8.7				4							370

* adapter · pièce d'adaptateur

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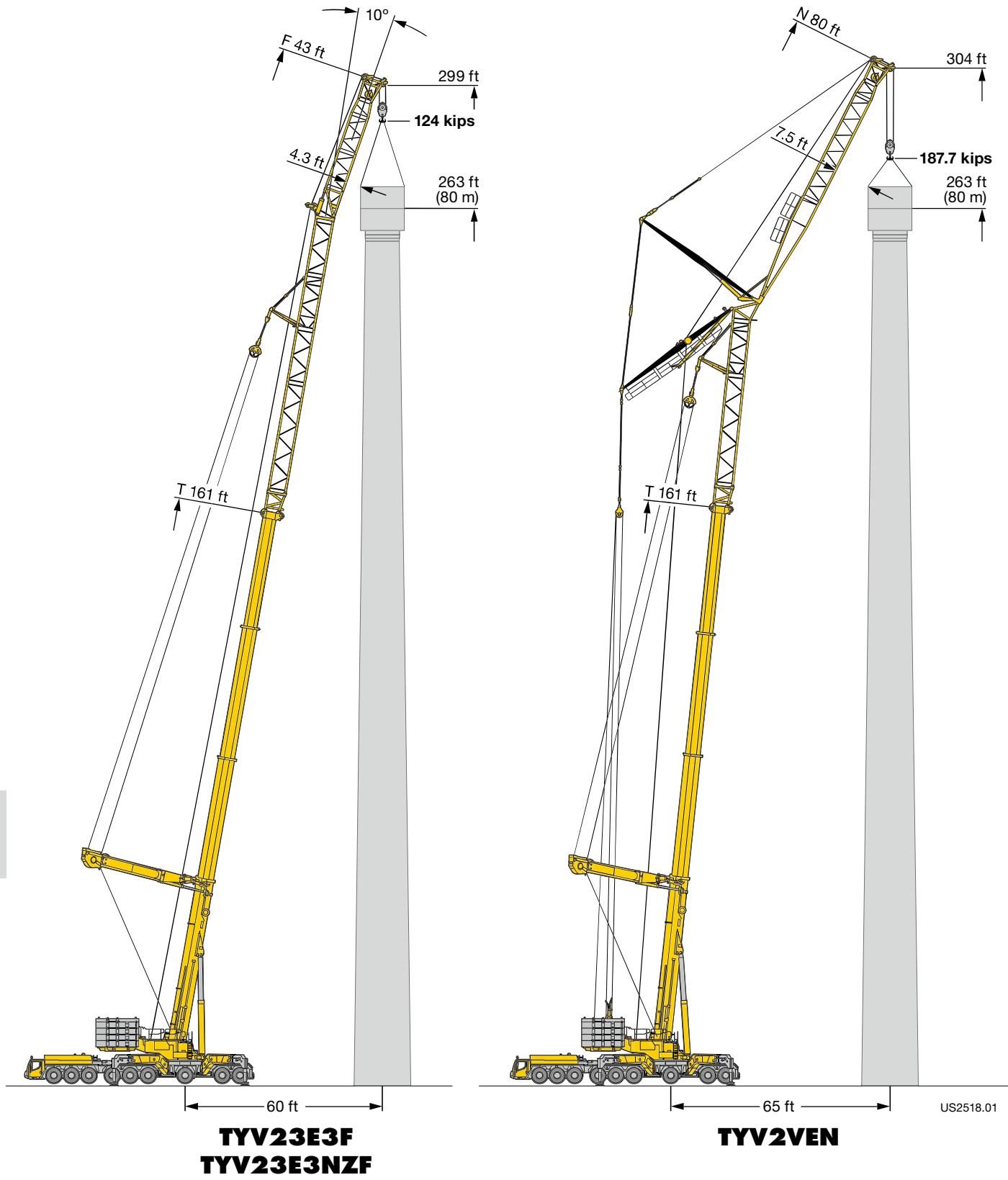
Lifting heights Hauteurs de levage

TYV2EN



Wind power applications

Applications de centrale éolienne



Equipment Équipement

Crane carrier

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel.
Outriggers	Four hydraulic swing-out beams with hydraulic support jacks. Operation with remote control, automatic support leveling, electronic inclination display.
Engine	8-cylinder Diesel, make Liebherr, watercooled, output 505 kW (686 h.p.), max. torque 2213 lbs-ft. Exhaust emissions acc. to 97/68/EG and EPA/CARB. Fuel reservoir: 159 gallons. Adblue reservoir: 12 gallons.
Transmission	Automatic transmission system with torque converter and retarder, make ZF, type TC-TRONIC HD with 12 forward speeds and 2 reverse speeds, transfer case with transfer differential.
Axles	Low maintenance carrier axles, all 9 axles steered. Axle 2, 3, 5 and 6 are equipped with planetary gears, axle 5 and 6 with transversal differential locks, axle 3 and 5 with longitudinal differential locks.
Cardan shaft	All cardan shafts with 70° diagonal toothed and maintenance free.
Suspension	All axles are hydro-pneumatically suspended with automatic leveling. Suspension hydraulically lockable.
Tyre equipment	18 tyres, all axles equipped with single tyres. Size of tyres: 385/95 R 25 (14.00 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 and ABV automatic blocking preventer. Additional brakes: exhaust flap brake, Telma Eddy current brake, retarder in gearbox. Hand brake: Spring-loaded, acting on all wheels of axles 3 to 8.
Driving cab	Spacious and comfortable sheet steel cab mounted on rubber shock absorbers, safety glass windows.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Roller-bearing slewing ring.
Crane engine	6 cylinder diesel engine, make Liebherr, integrated in the counterweight frame, water-cooled, power 300 KW (408 h.p.), max. torque 1380 lbs-ft. Exhaust emission according to directive 97/68/EG and EPA/CARB. Fuel tank: 200 gallons. Adblue reservoir 12 gallons.

Crane drive	Diesel-hydraulic, with 5 axial piston variable displacement pumps, with servo-control and capacity control.
Crane control	Two self-centering control levers (joy-sticks). Foot pedal for telescoping. Infinitely variable crane motions through displacement control of the hydraulic pumps. Additional working speed control by variation of the Diesel engine speed.
Hoist gear	Axial piston variable displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	2 differential cylinders with safety check valves.
Slewing gear	3 axial piston constant motors, planetary gear, spring loaded multiple disk brake.
Crane cab	Corrosion resistant steel cab, large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses.
Counterweight	Total ballast 449700 lbs, consisting of: 1 ground plate 24250 lbs, 1 counterweight frame 52030 lbs, 16 pieces 22050 lbs each, 2 pieces 11025 lbs each, hydraulic ballasting device.
Telescopic boom	1 base section and 3 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 53 ft to 171 ft.
Electric system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Complementary equipment

Guying system for telescopic boom Y	Consisting of guying frames with stay ropes, tiltably hydraulically into transport position.
Eccentric VE	Incl. 16.4 ft telescopic boom extension.
Telescopic boom extension V2/V3	32.8 ft lattice section (V2) + 2 x 16.4 ft lattice section (V3).
Lattice jibs F/NZF/N	Fixed lattice jib 20 ft – 180 ft long, at 0°, 10°, 20° 40° (F) or hydraulically 0° – 38° (NZF), luffing lattice jib 69 ft – 299 ft long (N).
2nd hoist gear	Variable axial piston motor, Liebherr hoist drum with built-in planetary gear and static brake.
3rd hoist gear with luffing block	Variable axial piston motor, Liebherr hoist drum with built-in planetary gear and static brake, for adjusting luffing fly jib.
Tyre equipment	18 tyres, size 445/95 R 25 (16.00 R 25) or 525/80 R 25 (20.5 R 25).
Erection support carrier rear end	Necessary for self erection of the rear folding outriggers.

Other items of equipment available on request.

Equipment Équipement

Châssis porteur

Châssis	Fabrication Liebherr, construction en caisson indeformable, en acier à grain fin haute résistance.
Stabilisateurs	Quatre poutres déployables hydrauliquement avec vérins de calage hydrauliques. Utilisation avec commande à distance, mise à niveau automatique du calage, inclinomètre électronique.
Moteur	Moteur diesel, 8 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 505 kW (686 ch), couple max. 2213 lbs-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG et EPA/CARB. Capacité du réservoir à carburant: 159 gallons. Réservoir Adblue: 12 gallons.
Boîte de vitesse	Boîte automatique avec convertisseur de couple et ralentisseur, marque ZF, type TC-TRONIC HD avec 12 marches AV et 2 marches AR, boîte de transfert avec différentiel répartiteur.
Essieux	Essieux nécessitant peu d'entretien, les 9 essieux sont directeurs. Les essieux 2, 3, 5 et 6 sont des essieux planétaires, essieux 5 et 6 avec verrouillage du différentiel transversal, essieux 3 et 5 avec verrouillage du différentiel longitudinal.
Arbres articulés	Tous les flasques de croisillons avec denture en croix 70° et sans entretien.
Suspension	Tous les essieux sont à suspension hydro-pneumatique avec mise à niveau automatique. Suspension blocable hydrauliquement.
Pneumatiques	18 roues à monte simple. Taille: 385/95 R 25 (14.00 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 et antibloquage du système de freinage automatique ABV. Freins auxiliaires : par clapet sur échappement, frein Telma, ralentisseur monté sur boîte de vitesse. Frein de secours et frein à main : par cylindres à ressorts sur les essieux 3 à 8.
Cabine	Cabine spacieuse, en tôle d'acier, équipement «grand confort», suspendue sur silent blocs, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts, 2 batteries de 170 Ah chacune.

Partie tournante

Châssis	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin de haute résistance. Couronne d'orientation de rouleaux.
Moteur	Diesel 6 cylindres, Liebherr, intégré dans le bâti de contrepoids, à refroidissement par eau, puissance 300 kW (408 ch), couple maximum 1380 lbs-ft. Emissions polluantes : conformes aux normes 97/68/EG et EPA/CARB. Capacité du réservoir: 200 gallons. Réservoir Adblue: 12 gallons.

Entraînement	Diesel hydraulique à 5 pompes à débit variable servo commandées à régulation de puissance.
Commande	2 leviers à 4 directions avec rappel automatique au point mort. Pédale pour télescopage. Commande des mouvements progressifs en continu par variation de l'inclinaison des pompes et augmentation du régime moteur.
Treuil	Moteur hydraulique à cylindrée variable, treuil avec réducteur planétaire à frein d'arrêt à lamelles intégrées.
Relevage de flèche	2 vérins différentiels avec soupapes de retenue.
Mécanisme d'orientation	3 moteur à débit constant et pistons axiaux, réducteur planétaire, frein d'arrêt à ressort.
Cabine de grue	Cabine du grutier en tôle d'acier avec traitement anticorrosion, large champ de vision, vitrage de sécurité, équipement pour un confort idéal, cabine inclinable de 20° vers l'arrière.
Sécurités	Contrôleur de charge LICCON2, système test, fin de course crochet haut, clapets de sécurité en cas de ruptures de flexibles.
Contrepoids	Contrepoids total 449700 lbs, comprenant : 1 plaque de base 24250 lbs, 1 bâti de contrepoids 52030 lbs, 16 éléments à 22050 lbs, 2 éléments à 11025 lbs. Dispositif de lestage hydraulique.
Flèche télescopique	Un élément de base et de 3 télescopiques. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMAIK. Longueur de flèche: 53 ft – 171 ft.
Circuit électrique	Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.

Équipement optionnel

Haubanage de flèche Y	Composé du chevalet d'haubanage avec haubanage du câble, rabattable hydrauliquement en position de transport.
Axe excentrique VE	Avec extension de flèche de 16.4 ft.
Rallonge de flèche télescopique V2/V3	Elément en treillis de 32.8 ft (V2) + Elément en treillis de 2 x 16.4 ft (V3).
Fléchettes F/NZF/N	Fléchette treillis fixe 20 ft – 180 ft long, sous 0°, 10°, 20°, 40° (F) ou réglable hydrauliquement 0° – 38° (NZF), fléchette treillis à volée variable 69 ft – 299 ft long (N).
Deuxième treuil	Moteur à cylindrée variable et pistons axiaux, treuil à câble Liebherr avec réducteur planétaire intégré et frein d'arrêt commandé par ressort.
Troisième treuil avec train de mouflage	Moteur à cylindrée variable et pistons axiaux, treuil à câble Liebherr avec réducteur planétaire intégré et frein d'arrêt commandé par ressort, pour le déploiement de la fléchette treillis à volée variable.
Pneumatiques	18 pneus. Taille 445/95 R 25 (16.00 R 25) ou 525/80 R 25 (20.5 R 25).
Stabilisateurs de montage arrière du véhicule	Requis lors du montage autonome des poutres rabattables arrières.

Autres équipements supplémentaires sur demande.

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Description of symbols Explication des symboles

General symbols Symboles généraux

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

Crane specific symbols Symboles spécifiques à la grue

	Telescopic boom Flèche télescopique		Telescopic boom extension Rallonge flèche télescopique
	Guying system for telescopic boom Y Haubanage de flèche Y		Hydraulic lattice jib Fléchette treillis hydraulique
	Eccentric Axe excentrique		Luffing fly jib Fléchette treillis à volée variable



Remarks referring to load charts

1. The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5.
The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 23 ft/s (7 m/s, 15.7 mph) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. Lifting capacities are given in kips.
4. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
5. Working radii are measured from the slewing centre.
6. The lifting capacities given for the telescopic boom apply if the folding jib is removed.
7. Subject to modification of lifting capacities.
8. Lifting capacities above 593 kips only with special equipment.
9. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.

Remarques relatives aux tableaux des charges

1. La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5.
La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 23 ft/s (7 m/s, 15.7 mph) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)s sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Les charges sont indiquées en kips.
4. 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.
5. Les portées sont calculées à partir de l'axe de rotation.
6. Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
7. Charges données sous réserve de modification.
8. Les charges supérieures à 593 kips seulement avec équipement supplémentaire.
9. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.

Subject to modification / Sous réserve de modifications

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