

Mobile Crane Grue mobile

LTM 1500-8.1

Technical Data Caractéristiques techniques

LTM 1500-8.1



LIEBHERR

LIEBHERR

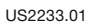
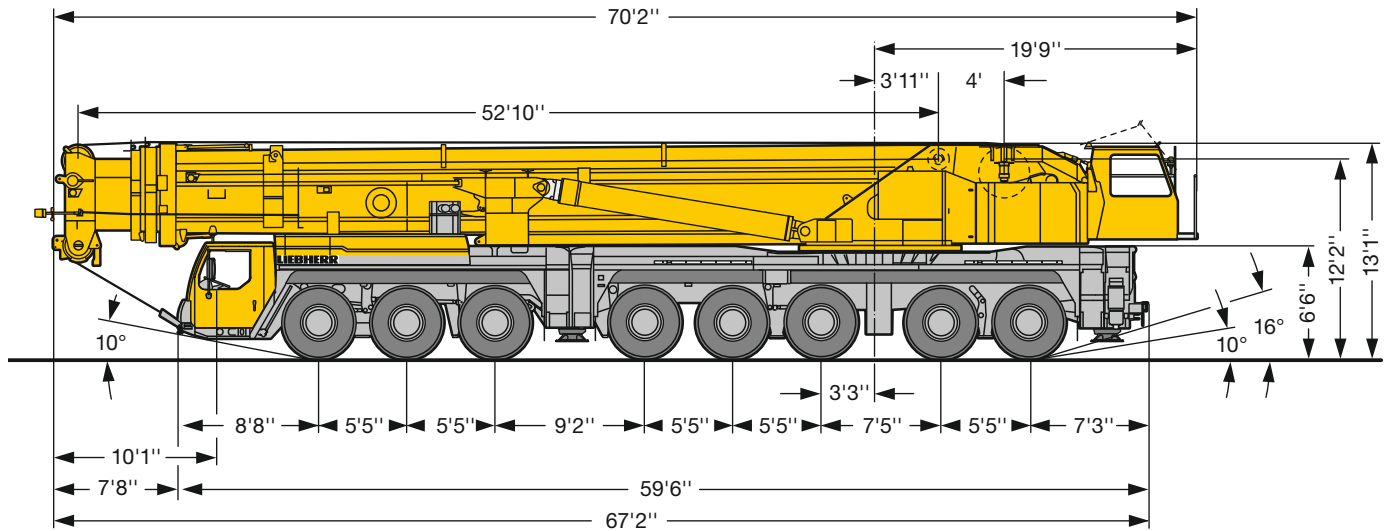
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Technical Data · Caractéristiques technique

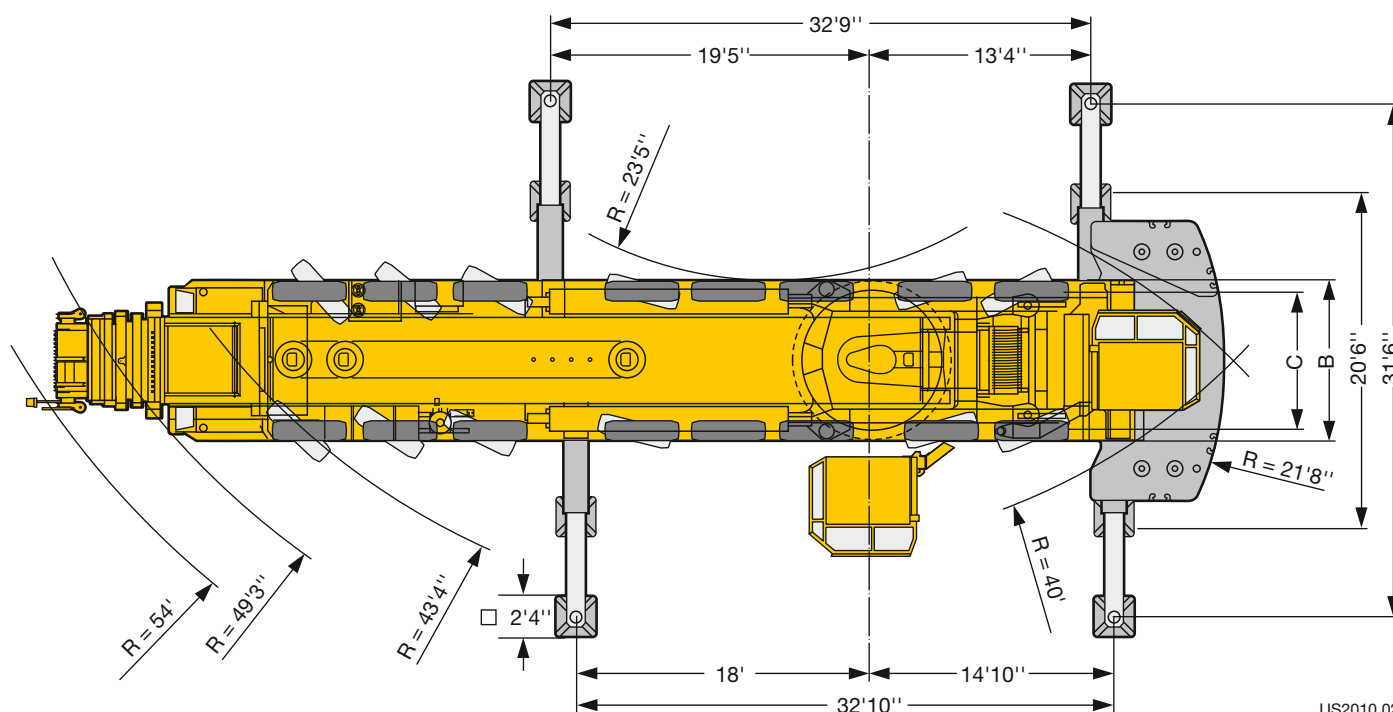
164 ft 

276 ft 

Dimensions · Encombrement		
Transportation plan · Plan de transport	A	A
Boom/jib combinations · Configurations de flèche		
Weights, Working speeds · Poids, Vitesses		
T	B	B
TY3	C	C
TF	D	D
TVF	E	–
TY3F	F	F
TY3EF	G	G
TVY3F	H	–
TN	I	I
TVN	J	–
TY3N	K	K
TVY3N	L	–
TY3SN	M	M
TNZF	N	N
TY3NZF	O	O
TY3ENZF	P	P
Equipment · Equipement		
Description of symbols · Explication des symboles	Q	Q
Remarks · Remarques		



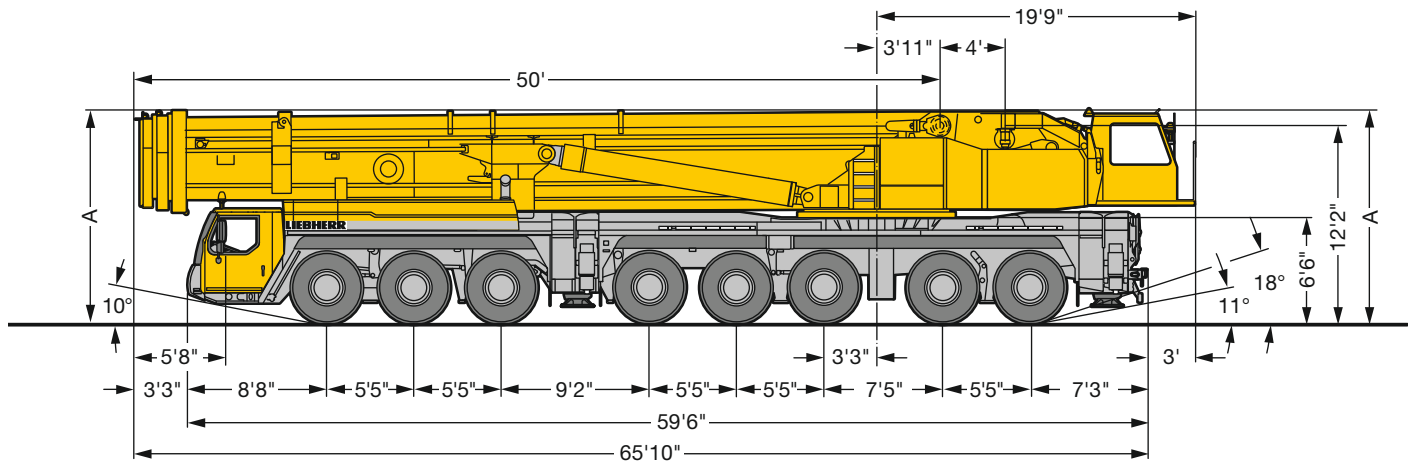
	Dimensions · Encombrement	
	B	C
385/95 R 25 (14.00 R 25)	9'10"	8'7"
445/95 R 25 (16.00 R 25)	9'10"	8'4"
525/80 R 25 (20.5 R 25)	10'7"	8'10"

[illegible]

Tyres 385/95 R 25 (14.00 R 25) · Pneumatiques 385/95 R 25 (14.00 R 25)

LTM 1500-8.1

Dimensions - Operating on road Encombrement - Déplacement sur route

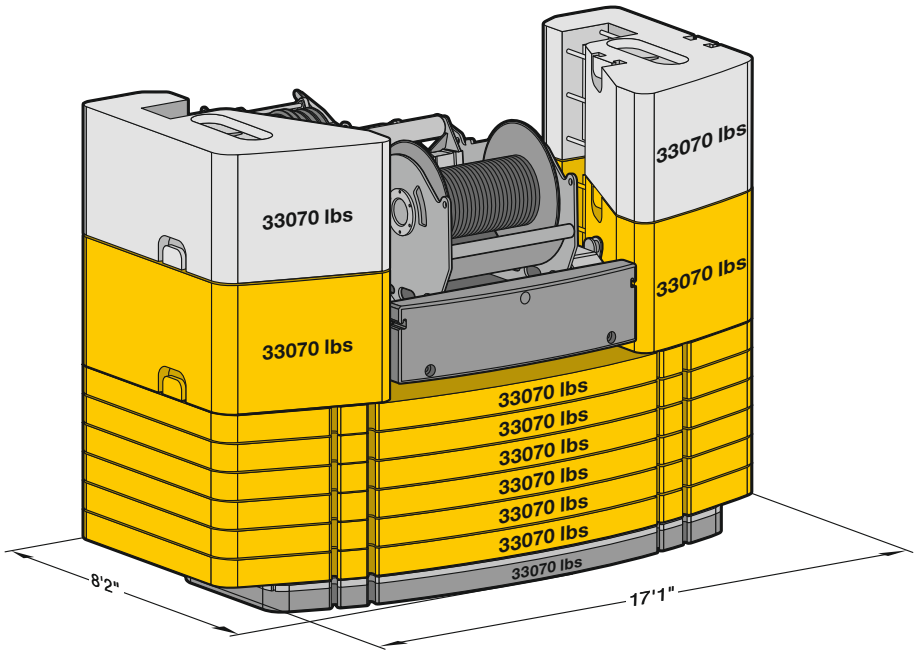


Dimensions - Counterweight
Encombrement - Contrepoids



A

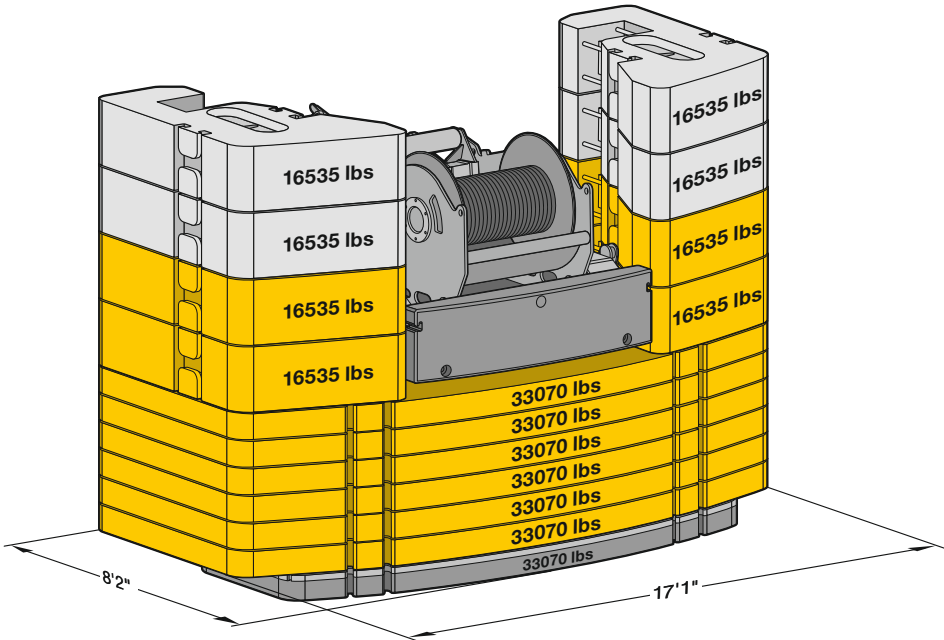
standard · standard



US2776

Basic counterweight · Contrepoids de base	297630 lbs
Additional counterweight · Contrepoids additionnel	66140 lbs
Total · Total	363770 lbs

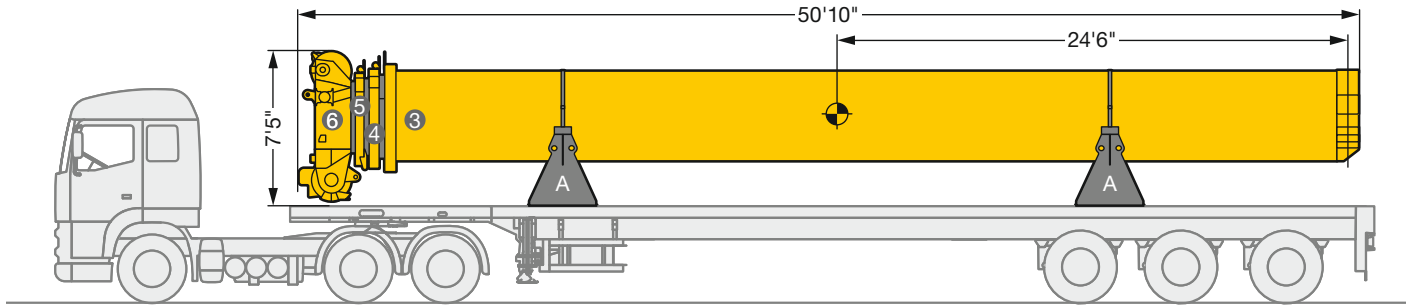
optional · en option



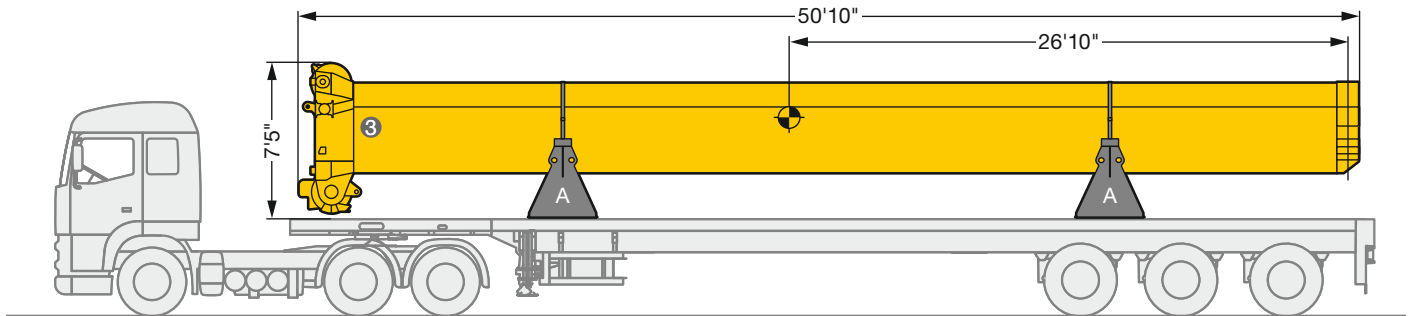
US2777

Transportation plan Plan de transport

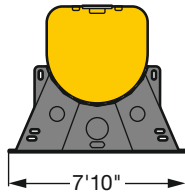
Weights telescopic sections ③ – ⑥ including supporting stands B: 47400 lbs
Poids des éléments télescopiques ③ – ⑥ et des consoles de support B: 47400 lbs



Weight telescopic section ③ including supporting stands B: 18500 lbs
Poid de l'élément télescopique ③ et des consoles de support B: 18500 lbs



A = Part A / Partie A



US2774

Weights Poids

A



Axle · Essieu	1	2	3	4	5	6	7	8	Total weight · Poids total lbs
lbs	26400	26400	26400	26400	26400	26400	26400	26400	211200*

* with 164 ft long telescopic boom · avec flèche télescopique de 164 ft



Load · Forces de levage kips	No. of sheaves · Poulies	No. of lines · Brins	Weight · Poids lbs
604	13	27	13448
546	11	23	8157
376	7	15	5952
187	3	7	5732
82	1	3	3083
28	–	1	1543

Working speeds Vitesses



	 min.	 max.	 %
445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)	1.2	53	39.5 %



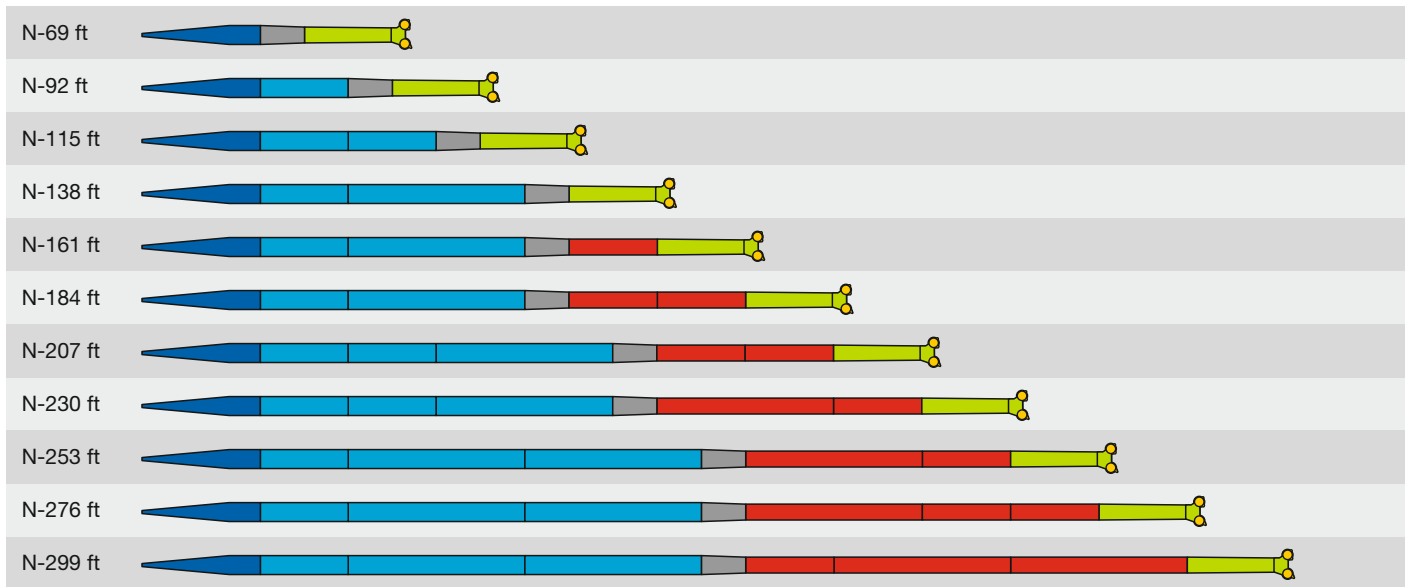

12 / R2



Drive · Mécanismes	infinitely variable · en continu	Rope diameter / length Diamètre / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 - 426 ft/min single line · au brin simple	1" / 2034 ft	28350 lbs
	0 - 475 ft/min single line · au brin simple	1" / 2034 ft	28350 lbs
	0 - 426 ft/min single line · au brin simple	1" / 3445 ft	28350 lbs
	0 - 1 rpm		
	approx. 70 seconds to reach 83° boom angle · env. 70 s jusqu'à 83°		
	approx. 330/750 seconds for boom extension from 53 ft – 164 ft/53 ft – 276 ft env. 330/750 s pour passer de 53 ft – 164 ft/53 ft – 276 ft		

A

Boom/jib combinations - Luffing fly jib **Configurations de flèche - Fléchette à volée variable**



31'2" N-shaped base section · Élément de base N



NA-23'



NA-46'



11'6" NI reduction section · Élément réducteur NI



NI-23'

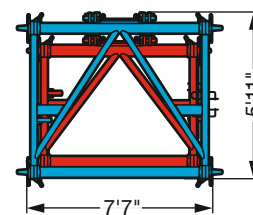
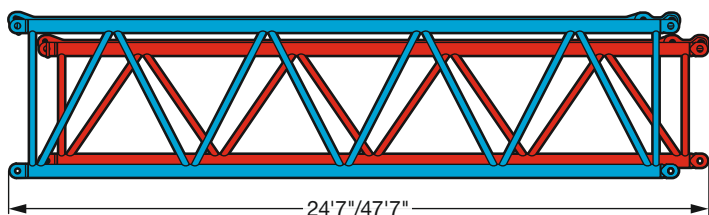


NI-46'



26'3" N head section · Élément de tête N

US2773

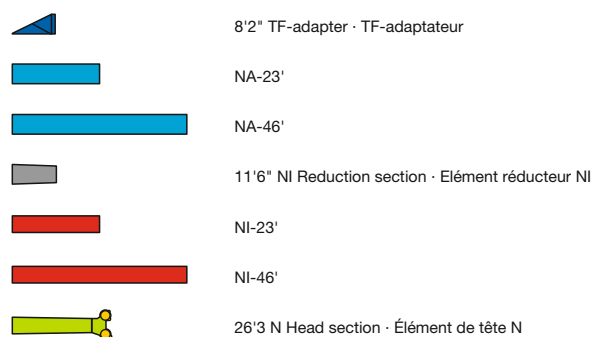
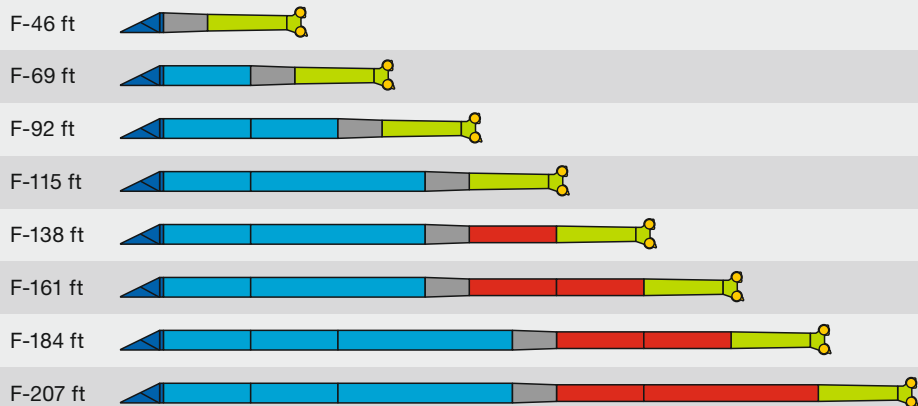


US2517

Boom/jib combinations - Fixed fly jib **Configurations de flèche - Fléchette fixe**

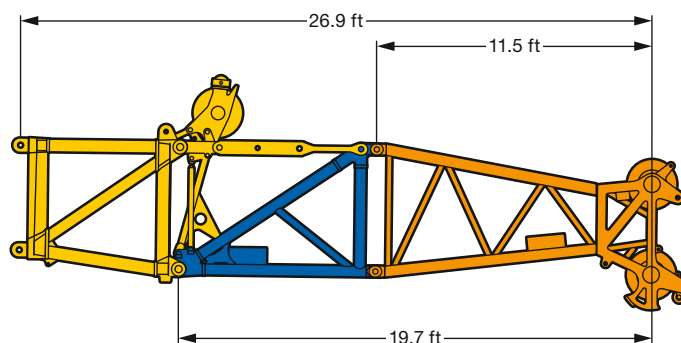
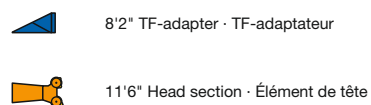


A



US2772

F-20 ft

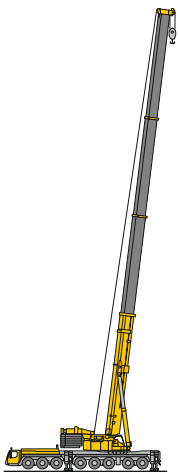
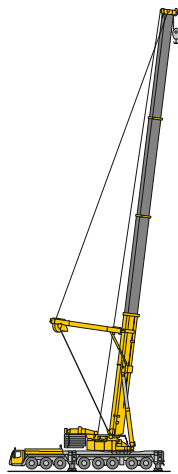
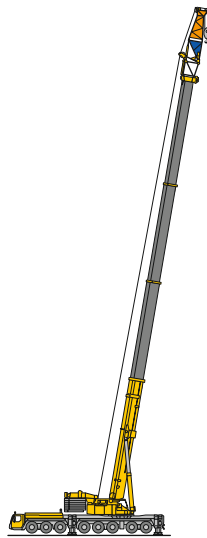
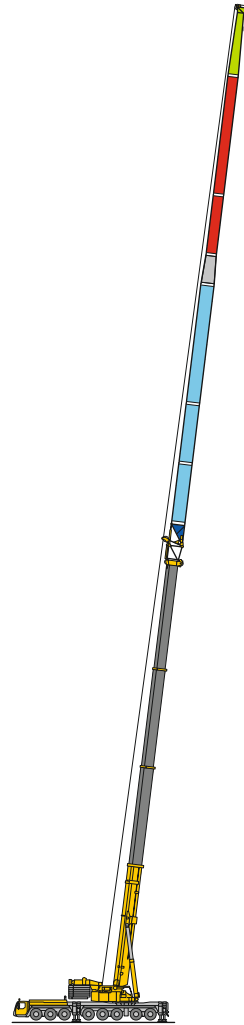
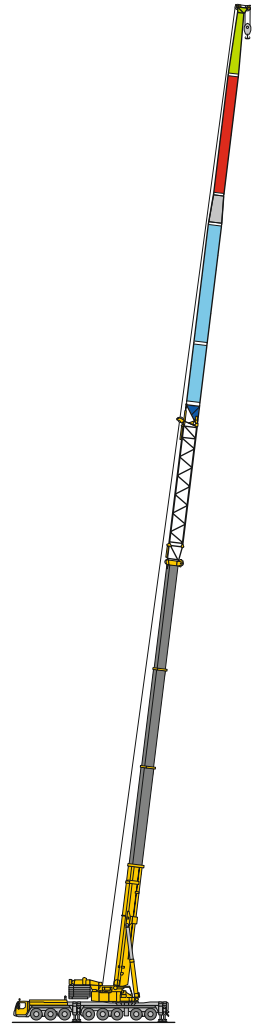


US2792

Boom/jib combinations Configurations de flèche



- T** Telescopic boom · Flèche télescopique
- Y3** Y-shaped guying system · Haubanage Y
- F** Fixed lattice jib · Fléchette treillis fixe
- NZF** Hydraulically adjustable lattice jib · Fléchette treillis à bras réglable hydrauliquement
- N** Luffing fly jib · Fléchette treillis à volée variable
- V** Telescopic boom extension · Rallonge de flèche télescopique
- E** Eccentric · Axe excentrique
- S** Spacer · Haubanage

**T****TY3****TF
TNZF****TF
TNZF****TVF
TVNZF**

B

C

D / N

D / N

E



TY3F
TY3NZF

TY3F
TY3NZF

TY3EF
TY3ENZF

TY3EF
TY3ENZF

TVY3NZF

TVY3F
TVY3NZF

 F/O

F/O

G/P

G/P

H

Boom/jib combinations
Configurations de flèche



TN

TVN

TY3N

TVY3N

TY3SN



I

J

K

L

M

S2706.02

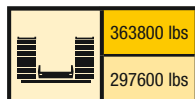
Lifting capacities Forces de levage



T

B

53 - 164 ft



85%

	53 ft	70 ft	87 ft	104 ft	121 ft	138 ft	155 ft	164 ft	
ft	*								ft
10	1.189	604							10
11	1.041	604							11
12	913	604	604						12
13	802	604	604						13
14	722	604	604	588					14
15	662	604	604	576					15
16	653	604	604	564					16
17	636	592	592	551	447				17
18	614	573	571	537	435				18
20	571	535	532	509	412	364			20
22	535	500	497	484	393	348			22
24	502	468	467	459	375	333	287		24
26	472	438	438	435	358	319	276		26
28	447	428	428	417	345	305	265	231	28
30	422	404	404	396	333	292	255	224	30
32	400	382	382	374	321	279	246	217	32
34	378	363	363	356	308	267	237	211	34
36	358	345	345	340	294	255	228	204	36
38	337	328	328	324	280	245	220	198	38
40	318	311	311	309	267	235	212	192	40
45	281	277	277	275	245	216	194	177	45
50			252	247	225	199	178	163	50
55			228	223	206	183	164	150	55
60			204	202	190	169	151	140	60
65			166	184	179	155	139	130	65
70				169	169	146	131	121	70
75				157	158	139	124	113	75
80					147	131	118	106	80
85					137	125	112	100	85
90					128	118	107	94.5	90
95					114	112	101	89.5	95
100						106	96.5	84.5	100
105						99	91.5	80	105
110						93	87	76.5	110
115							83	73.5	115
120							78.5	70.5	120
125							74.5	67.5	125
130							70.5	64.5	130
135								62	135
140								59.5	140
145								56	145
150								46.5	150
155								42.5	155

* over rear lifting capacities above 604000 lbs only with special equipment
en arriere forces de levage plus de 604000 lbs seulement avec équipement supplémentaire

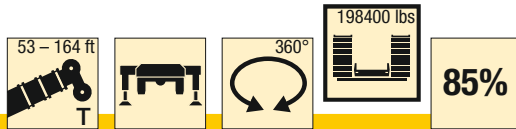
TAB 221762/221388/221390/221391

Lifting capacities Forces de levage



T

B



	53 ft	70 ft	87 ft	104 ft	121 ft	138 ft	155 ft	164 ft	
9	604								9
10	604								10
11	604	604							11
12	604	604							12
13	604	604	545						13
14	586	585	535						14
15	566	563	523						15
16	543	540	513	413					16
17	522	519	501	406					17
18	502	500	488	396	333				18
20	464	462	461	375	331				20
22	430	429	428	357	317	266			22
24	399	399	397	341	303	261			24
26	370	370	368	326	290	251	216		26
28	347	346	345	314	277	241	210	178	28
30	324	324	322	302	265	232	204	177	30
32	304	306	302	292	253	224	197	171	32
34	286	289	284	279	243	216	192	166	34
36	269	272	267	266	233	208	186	160	36
38	253	256	251	252	223	200	180	155	38
40	238	241	236	239	214	192	174	150	40
45	208	210	210	209	196	176	161	140	45
50		185	186	184	178	162	148	129	50
55		165	165	163	161	149	136	120	55
60		147	147	145	146	138	127	112	60
65		133	133	130	131	127	118	105	65
70			121	121	118	115	110	97.5	70
75			111	112	107	107	103	90	75
80				102	98	100	95.5	83.5	80
85				93.5	89.5	91.5	89	79	85
90				86	82	84	82	74	90
95				79	76.5	77.5	75.5	69.5	95
100					72	71	69.5	65.5	100
105					67	66	64	61.5	105
110					62.5	61	59.2	58.8	110
115						56.9	54.9	55.1	115
120						53.1	51	51.2	120
125						49.6	47.5	47.6	125
130						46.6	44.4	44.5	130
135							41.5	41.6	135
140							38.8	38.8	140
145							36.3	36.2	145
150							34.1	33.9	150
155								31.8	155

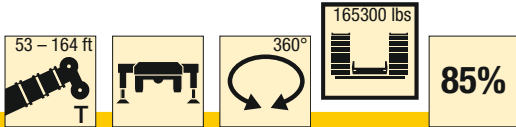
TAB 221363

Lifting capacities Forces de levage



T

B



	53 ft	70 ft	87 ft	104 ft	121 ft	138 ft	155 ft	164 ft	
9	604								9
10	604								10
11	604	604							11
12	604	604							12
13	604	602	545						13
14	582	580	535						14
15	558	555	523						15
16	535	532	513	413					16
17	514	511	499	406					17
18	494	492	484	396	333				18
20	454	453	452	375	331				20
22	419	418	417	357	317	266			22
24	388	387	386	341	303	261			24
26	360	360	358	326	290	251	216		26
28	335	336	333	314	277	241	210	178	28
30	312	315	310	302	265	232	204	177	30
32	291	294	289	289	253	224	197	171	32
34	273	276	272	274	243	216	192	166	34
36	257	260	257	258	233	208	186	160	36
38	240	243	242	241	223	200	180	155	38
40	225	228	228	226	213	192	174	150	40
45	195	198	198	196	192	176	161	140	45
50		174	174	172	171	162	148	129	50
55		153	154	151	152	147	136	120	55
60		136	137	135	134	132	127	112	60
65		121	122	123	120	118	117	105	65
70			109	111	107	108	106	97.5	70
75			98	99.5	97	98	96	90	75
80				89.5	89	88	86.5	83.5	80
85				81.5	81	80	78	78	85
90				74.5	74	73	71	71.5	90
95				68.5	68	67	65	65	95
100					62.5	61.5	59.4	59.6	100
105					57.6	56.5	54.5	54.8	105
110					53.5	52.3	50.3	50.5	110
115						48.5	46.5	46.7	115
120						45.1	43	43.2	120
125						42	39.8	40	125
130						39.3	36.9	37	130
135							34.1	34.2	135
140							31.7	31.7	140
145							29.4	29.3	145
150							27.5	27.3	150
155								25.4	155

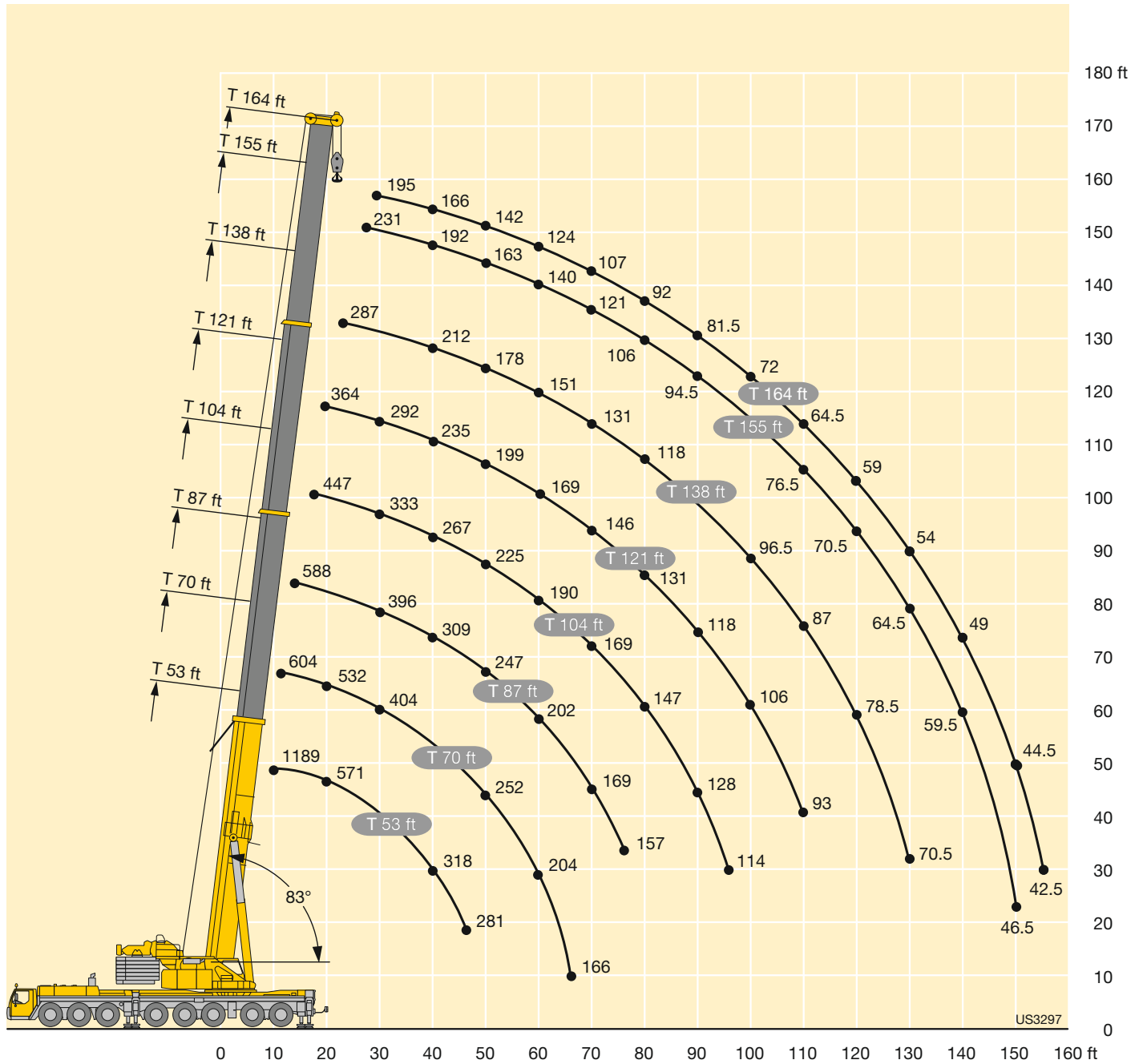
TAB 221364

Lifting heights Hauteurs de levage



T

B



Lifting capacities Forces de levage



TY3



85%

C

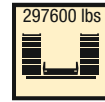
	ft	104 ft	121 ft	138 ft	155 ft	164 ft	ft
26			402				26
28			386				28
30		389	369	345	323	290	30
32		369	352	331	311	290	32
34		352	336	317	299	285	34
36		338	322	304	288	276	36
38		323	308	292	278	268	38
40		309	295	280	268	259	40
45		276	270	259	246	239	45
50		248	247	237	228	221	50
55		223	226	218	212	206	55
60		202	205	200	198	193	60
65		184	187	183	184	181	65
70		169	172	167	170	169	70
75		155	158	153	156	157	75
80		142	146	141	144	144	80
85		131	135	130	133	133	85
90		119	125	121	123	124	90
95		104	117	112	115	115	95
100			109	104	107	107	100
105			101	96.5	99.5	100	105
110			90.5	90.5	93	93.5	110
115				84.5	87	88	115
120				79	82	82.5	120
125				73	77	77.5	125
130				62	72	72.5	130
135					68	68.5	135
140					63.5	64.5	140
145					56.9	61	145
150					39.5	57.6	150
155						48.2	155

TAB 223262

Lifting capacities Forces de levage



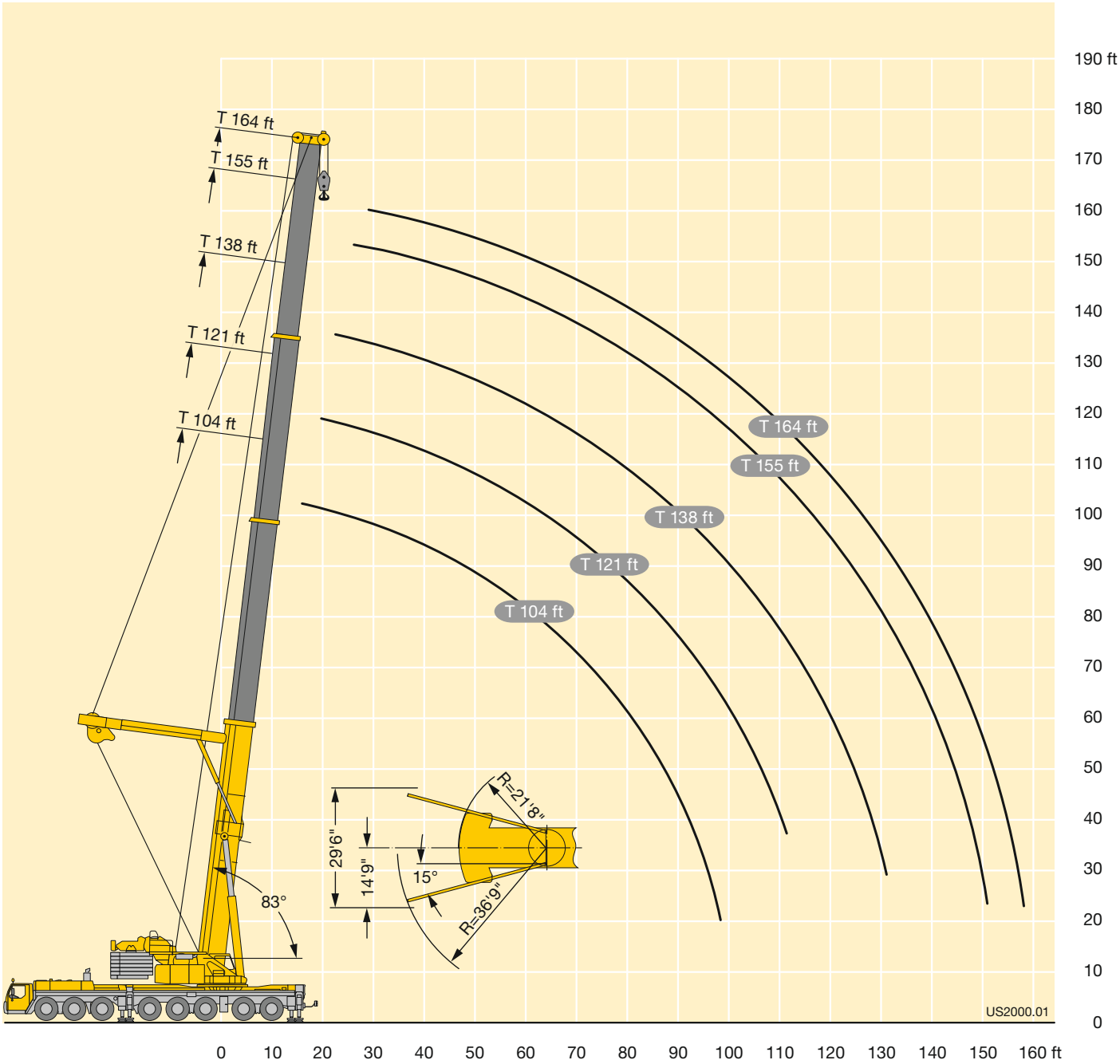
TY3



85%

ft	104 ft	121 ft	138 ft	155 ft	164 ft	ft
16	460					16
17	457					17
18	453	468				18
20	444	465				20
22	437	446	404			22
24	430	426	395			24
26	423	405	378	345	290	26
28	407	386	361	335	290	28
30	388	369	345	323	290	30
32	367	352	331	311	290	32
34	348	336	317	299	285	34
36	330	322	304	288	276	36
38	312	308	292	278	268	38
40	296	294	280	268	259	40
45	262	264	257	246	239	45
50	234	237	231	226	221	50
55	210	213	208	207	204	55
60	188	192	187	188	186	60
65	171	174	169	172	170	65
70	155	159	154	157	157	70
75	142	145	140	143	144	75
80	130	133	128	131	132	80
85	119	123	118	121	121	85
90	110	113	109	112	112	90
95	100	105	100	103	104	95
100		97.5	92.5	95.5	96.5	100
105		90.5	86	89	89.5	105
110		84.5	80	82.5	83.5	110
115			74.5	77	77.5	115
120			69	72	72.5	120
125			64.5	67.5	68	125
130			60.5	63	63.5	130
135				59.1	59.6	135
140				55.5	55.9	140
145				51	52.5	145
150				38.6	49.4	150
155					45.1	155

TAB 223263



Lifting capacities Forces de levage



ft	53 ft + 7 ft*																		ft	
	20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
13	315																		13	
14	315																		14	
15	315			216															15	
16	315			210															16	
17	315			204															17	
18	315	180		198			169												18	
20	313	178		186			167												20	
22	300	168	98.5	176			159			124									22	
24	288	158	97	166			152			121									24	
26	277	149	93.5	157			145			116			94.5						26	
28	267	141	91	150			139			111			91.5			74.5			28	
30	257	134	88.5	143			133			107			88			74			30	
32	246	128	86	137	96		127			103			84.5			71.5			32	
34	232	122	83.5	131	94.5		122			99			82			69			34	
36	216	117	81.5	126	92		117			95.5			79			67			36	
38	201	112	79.5	121	89.5		113			92			76.5			64.5			38	
40	186	108	78	117	87.5		108			88.5			74			62.5			40	
45	151	97.5	73.5	106	82	67	99.5	72		81.5			68			57.9			45	
50	130	89.5	70	98	77.5	65	91.5	68.5		75			63			53.9			50	
55	114	82.5	67.5	91	74	62.5	83.5	64.5		69	53.3		58.8			50.2			55	
60	100	76.5		85	70	61	76	61		64	50.2		54.8			47			60	
65	87.5	72		79.5	67	59.1	70	57.9	41.8	58.9	47.5		50.8	39.4		44.2			65	
70	77.5	68		74.5	64.5	57.7	65	54.7	40.4	54.9	45		47.2	37.6		41.5			70	
75				70	62	56.6	60	51.5	39.1	51.3	42.7		43.9	35.6		38.8			75	
80				66.5	60	55.8	55.7	48.4	37.8	48	40.7	29.4	41	33.7		36.2	29.4		80	
85				63	58.2	55.7	51.6	45.6	36.7	44.8	38.8	28.3	38.6	32		33.8	27.9		85	
90				59	56		47.9	43.2	35.8	41.9	36.7	27.3	36.5	30.5		31.6	26.5		90	
95				55.2	53.9		44.8	41.1	35	39	34.7	26.3	34.4	29.1		29.9	25.2		95	
100							42.2	39.1	34.4	36.4	32.8	25.5	32.4	27.8	20.4	28.3	23.9		100	
105							39.8	37.2	34	33.8	31.1	24.7	30.4	26.5	19.6	26.9	22.8		105	
110							37.7	35.8	33.9	31.7	29.6	24	28.5	25.2	18.9	25.5	21.8		110	
115							35.6	34.6		30	28.2	23.4	26.6	23.8	18.2	24.1	20.9	14.5	115	
120							33.6			28.5	26.9	22.9	24.9	22.6	17.6	22.7	20	14.3	120	
125										27	25.7	22.4	23.3	21.5	17	21.3	19.1	13.7	125	
130										25.7	24.7	22.3	22	20.5	16.5	20	18.3	13.2	130	
135										24.4	23.9		20.9	19.6	16.1	18.7	17.6	12.7	135	
140										23.1	23.1		19.9	18.7	15.6	17.5	16.7	12.3	140	
145													19	17.8	15.3	16.5	15.9	11.9	145	
150													18	17.1	15.1	15.7	15.2	11.6	150	
155													17.1	16.5	15	15	14.5	11.3	155	
160													16.3	16		14.3	13.8	11	160	
165													15.4			13.7	13.2	10.8	165	
170													14.6			13	12.6	10.7	170	
175																12.4	12.1	10.6	175	
180																11.8	11.7		180	
185																11.3	11.4		185	
190																10.7	11		190	

* adapter - pièce d'adaptateur

** optional - en option

TAB 221648 / 221649 / 221650

Lifting capacities Forces de levage



TF



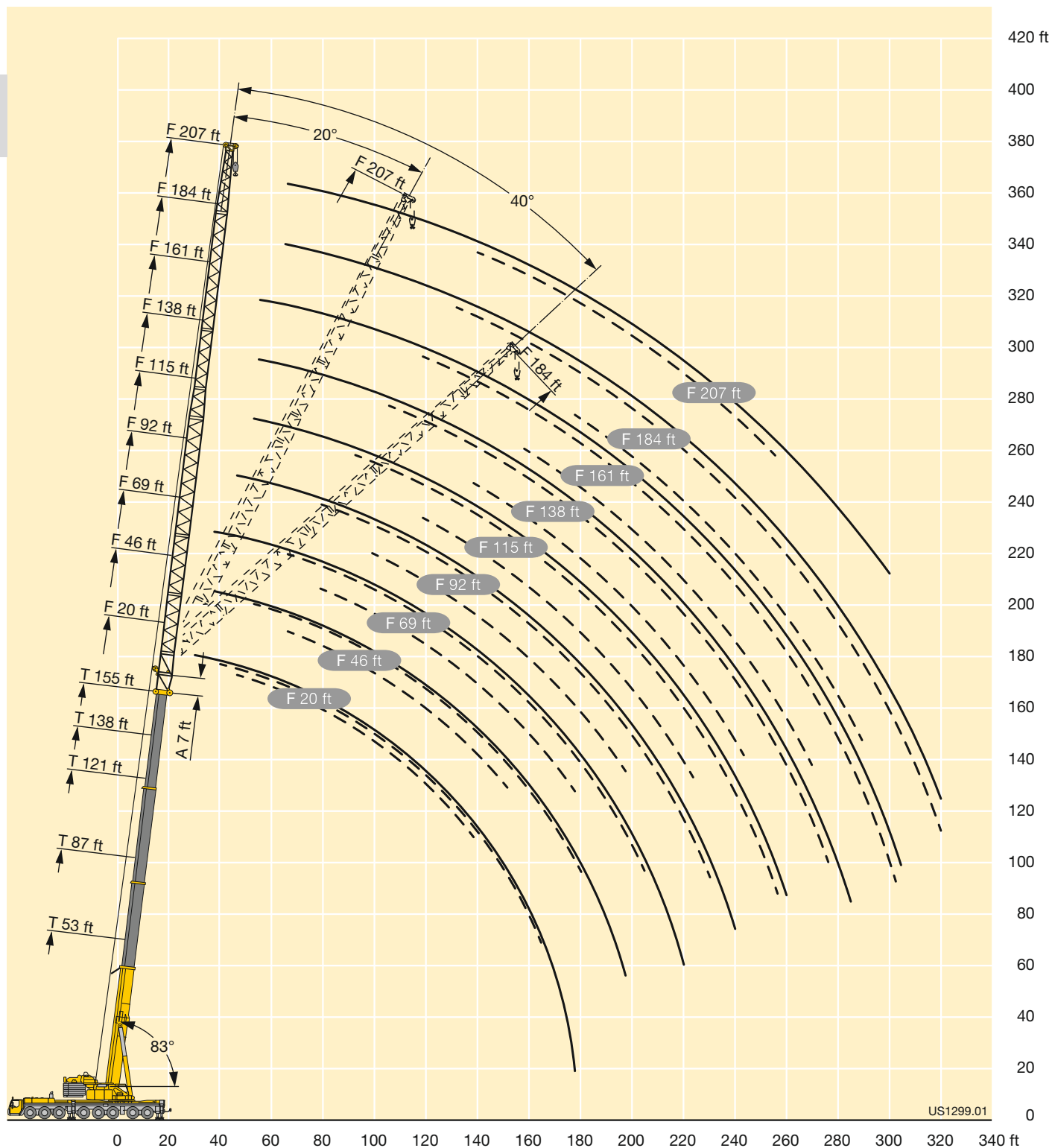
D

ft	53 ft + 7 ft*						87 ft + 7 ft*			121 ft + 7 ft*						ft			
	161 ft			184 ft			207 ft			20 ft**			20 ft			46 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
18									315									18	
20									315									20	
22									315	182								22	
24									312	178								24	
26									306	170		259						26	
28									297	163	95	249			161			28	
30									288	157	94.5	239	165		160			30	
32	59.1								280	151	92.5	230	160		155			32	
34	58								273	145	90.5	221	156		151			34	
36	56.2								266	140	89	213	151		148			36	
38	54.4			44.8					258	135	87	205	147	90	144			38	
40	52.7			44.4					251	130	85.5	198	142	89.5	140			40	
45	49			41.3			34.4		227	121	82	181	133	86	132	89		45	
50	45.7			38.6			32.6		205	112	78.5	167	125	83.5	125	86		50	
55	42.7			36.1			30.6		183	105	75.5	153	118	80.5	118	83	64	55	
60	40			33.9			28.7		161	98	73	141	111	78	112	80	64	60	
65	37.5			31.8			27		142	92	71	131	106	76	106	77	62.5	65	
70	35.4			29.9			25.4		128	87.5	69	122	101	74	100	74.5	61.5	70	
75	33.4			28.2			23.9		117	83	67	114	96	72	95.5	72.5	60.5	75	
80	31.5			26.6			22.5		108	79	66	107	92	70.5	91	70.5	59.5	80	
85	29.6			25.1			21.2		99	75	64.5	99.5	88	69	87	68.5	58.6	85	
90	27.7			23.7			20.1		91	72.5		93	84.5	68	84	67	57.7	90	
95	25.9	21		22.4			19		84	70		88	81.5	66.5	80.5	65	57	95	
100	24.2	19.9		20.9	15.8		17.9		77.5	67.5		83	78.5	65.5	77	63.5	56.3	100	
105	22.8	18.9		19.5	15.8		16.9					79	76	65	73	62	55.8	105	
110	21.6	17.9		18.3	15		15.9					75	73.5	64.5	69.5	61	55.4	110	
115	20.5	17		17.2	14.2		14.8	11.6				71	70.5		65.5	60	55	115	
120	19.5	16.1		16.3	13.4		13.8	11.4				67.5	67.5		62	58.9	54.7	120	
125	18.5	15.4		15.4	12.7		12.8	10.8				64	64.5		58.8	57.7	54.6	125	
130	17.5	14.8	10.3	14.7	12		12.2	10.3				60.5	61		56	55.8	54.4	130	
135	16.6	14.1	10	14	11.4		11.6	9.8				56.8			53.7	53.5	53.4	135	
140	15.7	13.5	9.6	13.3	10.9		11	9.3							51.6	51.3		140	
145	14.7	12.9	9.2	12.6	10.4		10.5	8.8							49.5	49.3		145	
150	13.7	12.3	8.9	11.9	10	6.8	10	8.4							47.6	47.4		150	
155	12.8	11.7	8.6	11.2	9.6	6.6	9.5	8							45.8	45.5		155	
160	11.9	11.2	8.3	10.5	9.2	6.3	9	7.6							43.9			160	
165	11.2	10.6	8	9.9	8.8	6	8.5	7.3										165	
170	10.7	10.2	7.8	9.2	8.4	5.7	8	6.9										170	
175	10.3	9.7	7.5	8.5	7.9	5.5	7.5	6.6										175	
180	9.8	9.3	7.3	8	7.5	5.3	7	6.3										180	
185	9.4	8.9	7.1	7.6	7.1	5.1	6.5	6										185	
190	8.9	8.5	7	7.1	6.8	4.9	6	5.6										190	
195	8.5	8.2	6.9	6.8	6.4	4.7	5.6	5.2										195	
200	8.1	7.9	6.9	6.4	6.1	4.5	5.2	4.9										200	
205	7.7	7.6		6.1	5.8	4.3	4.9	4.6										205	
210	7.3			5.8	5.4	4.2	4.6											210	
215	6.9			5.4	5.2	4.1	4.3											215	
220				5.1	4.9	4.1												220	
225				4.8	4.7													225	
230				4.5	4.5													230	
235				4.2	4.3													235	

* adapter · pièce d'adaptateur
** optional · en option

TAB 221648 / 221649 / 221650

D



Lifting capacities Forces de levage



TVF

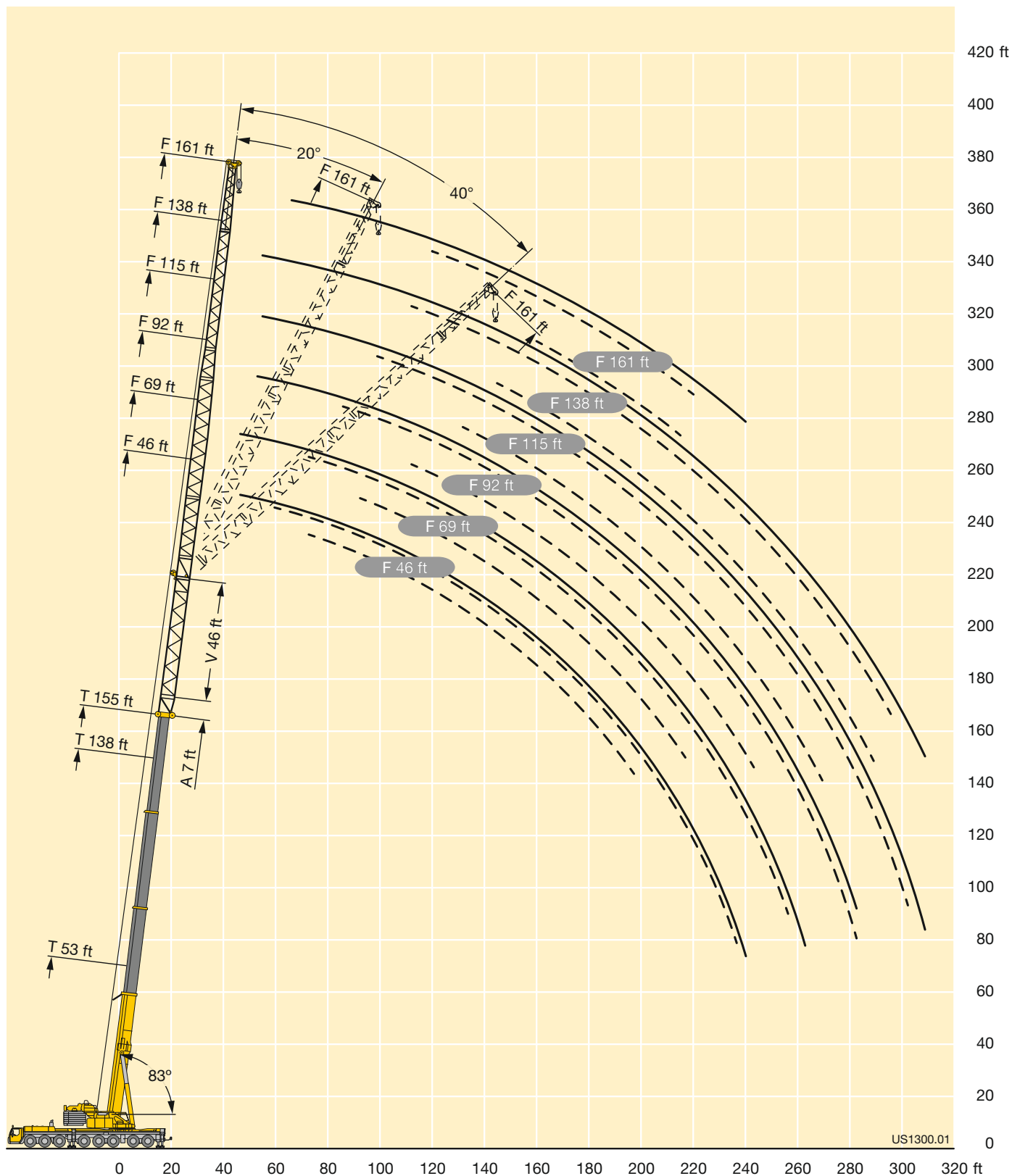


	53 ft + 46 ft + 7 ft*																		
	46 ft			69 ft			92 ft			115 ft			138 ft			161 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
22	145																		22
24	142																		24
26	136			112															26
28	130			108			87.5												28
30	124			104			86.5												30
32	118			99.5			83.5			68.5									32
34	113			95.5			80			67.5									34
36	108			92			77			65									36
38	103	78.5		88			74			63			53.4			43.7			38
40	98	78		84.5			71.5			60.5			52.9			43.4			40
45	86	73.5		76			64.5			55.7			49			40.5			45
50	78.5	69	50	68	58.5		59.4			51.1			45.3			37.9			50
55	72	64	49.1	62	55.9		55.1			47.1			42			35.4			55
60	65.5	58.9	47.5	57.4	50.8		51.2			43.8			39.2			33			60
65	60	54.4	46	53.4	46		47.6	41.8		40.9			36.6			30.8			65
70	54.7	50.2	44.7	49.3	42.7	39	44.4	38.8		38.3	33.3		34.4			28.7			70
75	49.8	46.3	43.3	45.5	39.8	37.4	41.4	35.6		35.8	31.8		32.3			26.6			75
80	45.1	42.7	41.3	41.9	37	34.8	38.4	32.7		33.5	29.3		30.3			24.6			80
85	40.6	39.1	38.4	38.5	34.5	32.6	35.2	30.5		31.4	26.8		28.4	25.8		23.1			85
90	38.1	36.9	36.3	35.4	32.1	30.7	32.1	28.5	27.3	28.9	25		26.7	24		21.7			90
95	35.9	34.9	34.4	32.3	29.9	28.8	29.2	26.6	26.1	26.5	23.4		25	22.1		20.3	17.5		95
100	33.8	33	32.6	29.4	27.7	27	26.3	24.8	24.4	24.2	21.8	19.9	23.2	20.4		18.9	17		100
105	31.8	31.1	30.8	26.5	25.6	25.2	23.5	23.1	22.9	22	20.3	19.9	21.3	18.7		17.5	15.5		105
110	29.9	29.4	29.2	25.1	24.2	24	22.3	21.4	21.5	19.9	18.8	18.6	19.4	17.5		16.3	14.1		110
115	28.1	27.8	27.7	23.8	22.9	22.7	21.1	19.8	20.2	17.8	17.4	17.4	17.6	16.5		15	13		115
120	26.4	26.2	26.2	22.5	21.7	21.5	19.9	18.5	18.9	16.2	16.1	16.3	15.9	15.4	13.3	13.9	12.2		120
125	24.7	24.6		21.3	20.5	20.4	18.9	17.6	17.7	15.4	14.8	15.3	14.2	14.4	13.2	12.7	11.4		125
130	23.1	23.2		20.1	19.4	19.3	17.8	16.7	16.8	14.6	13.6	14.3	12.5	13.4	12.2	11.6	10.6		130
135	21.6	21.8		19	18.3	18.3	16.9	15.8	15.9	13.9	12.8	13.4	11.7	12.5	11.5	10.6	9.8		135
140	20.1			17.9	17.2	17.3	15.9	15	15.1	13.2	12.1	12.4	11	11.7	10.8	9.5	9.1	8.3	140
145				16.8	16.2		15	14.2	14.3	12.5	11.5	11.6	10.4	10.8	10.2	8.5	8.4	8.2	145
150				15.8	15.2		14.1	13.4	13.5	11.8	10.9	11	9.9	9.9	9.6	7.5	7.7	7.7	150
155				14.8	14.3		13.3	12.7	12.8	11.2	10.4	10.5	9.3	9.1	9.1	6.6	7.1	7.2	155
160				13.9	13.3		12.4	12	12	10.5	9.8	9.9	8.8	8.5	8.5	5.9	6.5	6.7	160
165				12.9			11.6	11.3	11.3	9.9	9.3	9.4	8.3	8	8	5.6	6.1	6.2	165
170				12			10.8	10.6	10.6	9.3	8.8	8.9	7.8	7.6	7.6	5.3	5.8	5.7	170
175							10	9.9		8.8	8.2	8.4	7.3	7.1	7.1		5.4	5.3	175
180							9.3	9.3		8.2	7.7	8	6.9	6.7	6.7		5	4.9	180
185							8.6			7.7	7.3	7.5	6.4	6.3	6.3				185
190							7.8			7.2	6.8	7	6	5.9	5.9				190
195										6.7	6.3		5.5	5.5	5.5				195
200										6.1	5.9		5.1	5.1	5.1				200
205										5.6	5.4		4.7	4.7	4.8				205
210										5.2			4.3						210
215										4.7			3.9						215

* adapter · pièce d'adaptateur

TAB 221340 / 221341 / 221342

E



US1300.01

Lifting capacities Forces de levage



TY3F



 ft	155 ft + 7 ft*															 ft
	20 ft**			46 ft			69 ft			92 ft			115 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
28	231															28
30	231															30
32	230			163												32
34	229			161												34
36	228			157												36
38	228	160	94	154			125									38
40	226	159	93.5	150			124									40
45	216	151	90.5	142			117			88			70			45
50	201	143	88	136	88		112			84.5			67			50
55	187	136	85.5	129	86.5		107	70.5		80.5			64			55
60	174	129	83.5	123	84	65	102	70		77			61			60
65	162	123	81.5	118	81.5	64	97.5	67.5		73.5			58.4			65
70	152	117	79.5	113	79	63	93.5	65.5		70.5	48.8		55.9			70
75	143	112	77.5	108	77	62	89.5	63.5	48.9	67.5	48		53.7			75
80	135	108	76	104	75	61	86	61.5	48.7	65	46.4		51.5			80
85	127	104	74.5	100	73	60	83	60	47.8	62.5	45		49.5	35.2		85
90	119	100	73	96	71	59.4	80	58.4	47	60	43.6		47.6	34.1		90
95	111	96	71.5	92.5	69.5	58.6	77	56.9	46.3	57.9	42.4	32.5	45.9	33		95
100	103	93	70.5	89.5	68	57.9	74.5	55.5	45.6	55.9	41.2	32.3	44.2	32		100
105	96	89.5	69	86	66.5	57.3	72	54.1	44.9	54	40	31.7	42.6	31		105
110	89.5	86.5	68	83	65.5	56.9	69.5	52.9	44.3	52.3	39	31.1	41.2	30.1		110
115	83.5	83.5	67	80.5	64	56.5	67	51.7	43.7	50.6	38	30.6	39.8	29.2	22.4	115
120	78	79.5	66	77	63	56.1	65	50.7	43.2	49	37	30	38.6	28.4	22.2	120
125	73	74.5	65.5	73.5	61.5	55.7	62.5	49.7	42.7	47.3	36.1	29.5	37.4	27.6	21.8	125
130	68.5	69.5	65	70	60.5	55.3	60.5	48.7	42.3	45.7	35.3	29	36.3	26.9	21.3	130
135	64	65	64	67	59.7	55	58.6	47.8	41.9	44.2	34.6	28.6	35.2	26.2	20.9	135
140	60	61		63.5	58.9	54.7	56.8	46.9	41.6	42.7	33.8	28.2	34	25.6	20.5	140
145	56.4	57.3		59.9	58.2	54.5	55.2	46	41.2	41.2	33.1	27.8	32.8	24.9	20.1	145
150	53	53.8		56.5	57.6	54.5	53.8	45.2	40.9	39.8	32.5	27.5	31.7	24.4	19.8	150
155	49.8	50.5		53.3	55.3		52.4	44.4	40.6	38.6	31.8	27.2	30.6	23.8	19.4	155
160	46.8	47.4		50.3	52.3		50.6	43.8	40.3	37.5	31.2	27	29.6	23.3	19.1	160
165	43.5			47.5	49.3		48.6	43.4	40.1	36.5	30.6	26.7	28.5	22.7	18.8	165
170	37.9			44.8	46.5		46.4	42.9	40.1	35.6	30	26.5	27.6	22.2	18.6	170
175	26.3			42.3	43.8		43.9	42.4	40.1	34.8	29.4	26.2	26.9	21.7	18.4	175
180				40	41.3		41.6	42		34	28.9	26	26.2	21.2	18.2	180
185				37.2			39.3	41.2		33.2	28.5	25.8	25.5	20.8	18	185
190				32.8			37.2	39.3		32.3	28.2	25.7	24.9	20.3	17.8	190
195				27.6			35.2	37.2		31.6	27.8	25.7	24.3	19.9	17.7	195
200				20.5			33.3	35.1		30.8	27.5		23.6	19.6	17.5	200
205							31.1	33.1		30.1	27.1		23	19.3	17.4	205
210							27.9			29.3	26.8		22.4	19	17.2	210
215							23.6			28.7	26.5		21.8	18.7	17.2	215
220							19.4			27.7	26.2		21.2	18.4	17.2	220
225										26.2	26.1		20.6	18.2		225
230										23.8			20.1	18		230
235										20.2			19.6	17.7		235
240										16.7			19.2	17.5		240
245													18.9	17.4		245
250													18.4	17.3		250
255													17.1	17.3		255
260													14.5			260

* adapter - pièce d'adaptateur

** optional - en option

TAB 221618 / 221620 / 221622

Lifting capacities Forces de levage



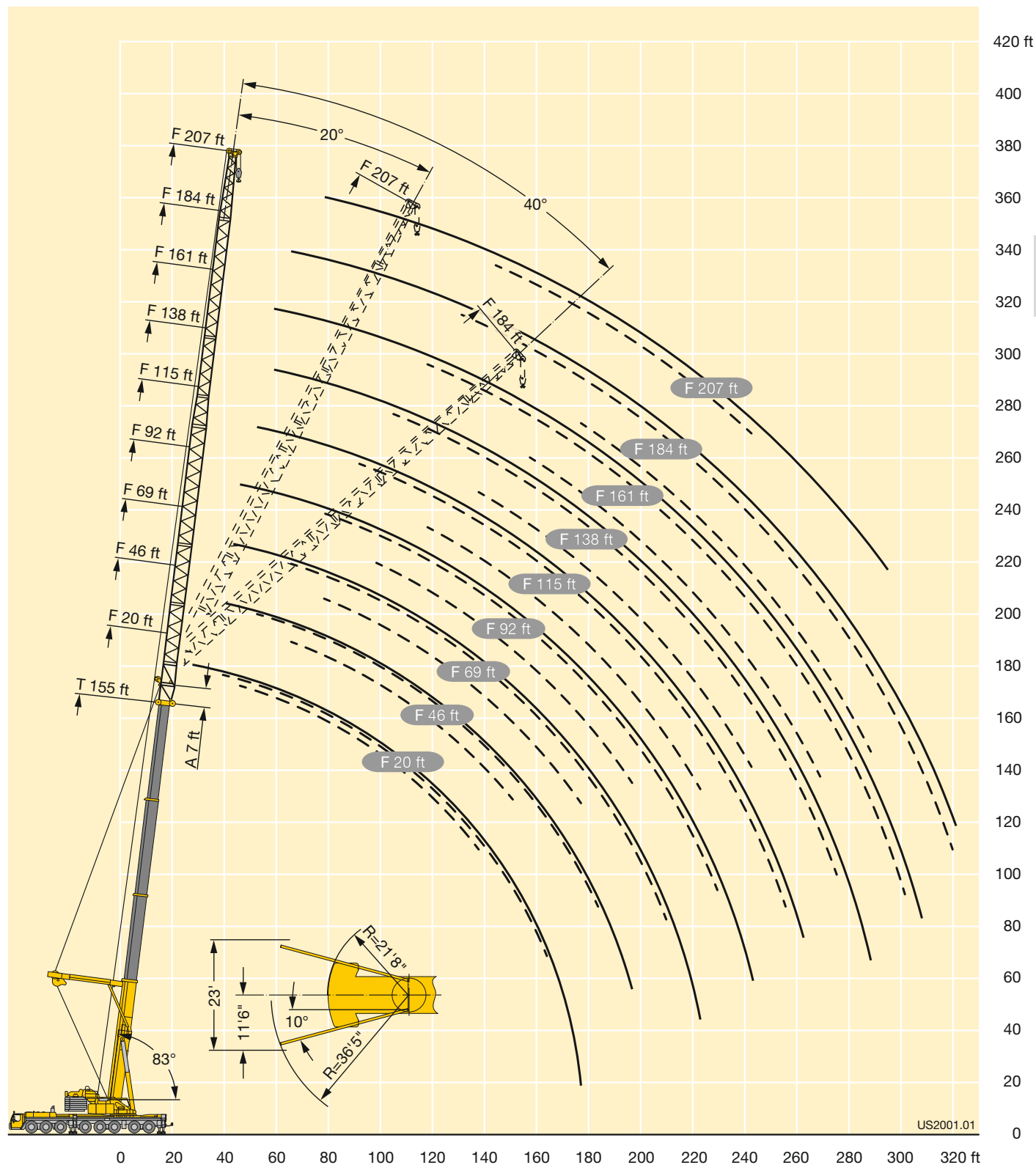
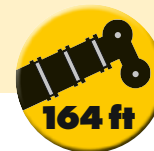
TY3F



		155 ft + 7 ft*											
		138 ft			161 ft			184 ft			207 ft		
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	
F	50	53.7											50
	55	52.4			40.4								55
	60	50			40.1								60
	65	47.8			38.2			31			26.2		65
	70	45.8			36.6			29.8			25.2		70
	75	44			35.1			28.5			24		75
	80	42.3			33.7			27.3			23		80
	85	40.6			32.4			26.2			22.1		85
	90	39.1			31.2			25.2			21.2		90
	95	37.7	26.6		30			24.2			20.4		95
	100	36.3	26.4		28.9			23.2			19.6		100
	105	35	25.5		27.8			22.3			18.9		105
	110	33.8	24.7		26.8			21.4			18.1		110
	115	32.6	23.9		25.8	18.4		20.6			17.4		115
	120	31.6	23.2		24.9	18.1		19.8			16.7		120
	125	30.6	22.5		24	17.5		19.1			16.1		125
	130	29.6	21.8		23.2	16.9		18.4	13.1		15.5		130
	135	28.8	21.2	15.6	22.5	16.4		17.7	12.7		14.9		135
	140	27.9	20.6	15.4	21.7	15.8		17.1	12.2		14.3	9.3	140
	145	27.1	20	15.1	21.1	15.2		16.5	11.8		13.7	9.3	145
	150	26.3	19.5	14.8	20.4	14.7		15.9	11.3		13.2	8.9	150
	155	25.4	18.9	14.4	19.8	14.2	10.2	15.4	10.9		12.7	8.5	155
	160	24.5	18.4	14.1	19.2	13.7	10.1	14.9	10.5		12.3	8.2	160
	165	23.7	17.9	13.8	18.6	13.3	9.9	14.4	10.1		11.9	7.8	165
	170	22.9	17.5	13.6	17.9	12.8	9.7	13.9	9.8		11.4	7.5	170
	175	22.1	17	13.3	17.3	12.4	9.5	13.4	9.5	6.6	11	7.2	175
	180	21.3	16.6	13.1	16.6	12.1	9.3	13	9.2	6.5	10.6	6.9	180
	185	20.6	16.2	12.9	16	11.7	9.1	12.5	8.9	6.3	10.3	6.6	185
	190	20	15.9	12.7	15.4	11.5	8.9	12.1	8.6	6.1	9.9	6.3	190
	195	19.4	15.5	12.6	14.7	11.2	8.8	11.7	8.3	6	9.5	6	195
	200	18.9	15.1	12.4	14.2	10.9	8.6	11.2	8.1	5.8	9.1	5.8	200
	205	18.4	14.8	12.3	13.6	10.6	8.4	10.7	7.8	5.7	8.7	5.5	205
	210	17.9	14.4	12.2	13.2	10.4	8.3	10.2	7.6	5.5	8.3	5.3	210
	215	17.4	14.1	12.1	12.9	10.2	8.2	9.7	7.4	5.4	8	5.1	215
	220	16.9	13.8	12	12.5	9.9	8.1	9.4	7.2	5.2	7.6	4.8	220
	225	16.4	13.5	11.8	12.1	9.7	8	9	6.9	5.1	7.2	4.6	225
	230	15.9	13.3	11.7	11.8	9.4	7.9	8.7	6.7	5	6.9	4.4	230
	235	15.4	13.1	11.7	11.4	9.2	7.8	8.4	6.5	4.9	6.6	4.2	235
	240	15	12.9	11.6	11.1	9	7.7	8.1	6.3	4.8	6.3	4	240
	245	14.5	12.7		10.7	8.9	7.6	7.9	6.2	4.8	6	3.9	245
	250	14.1	12.5		10.4	8.7	7.6	7.6	6	4.7	5.8	3.7	250
	255	13.7	12.3		10.1	8.6	7.5	7.3	5.8	4.6	5.5	3.5	255
	260	13.5	12.2		9.8	8.4	7.5	7.1	5.6	4.5	5.3	3.3	260
	265	13.2	12		9.5	8.3	7.5	6.8	5.5	4.5	5		265
	270	13	11.9		9.2	8.2		6.6	5.3	4.4	4.8		270
	275	12.7	11.9		8.9	8		6.3	5.2	4.3	4.6		275
	280	11.9			8.7	7.9		6.1	5.1	4.3	4.3		280
	285	10.1			8.6	7.8		5.9	5	4.3	4.1		285
	290				8.4	7.7		5.7	4.9		3.9		290
	295				8.3	7.6		5.4	4.8		3.7		295
	300				8	7.6		5.3	4.7		3.4		300
	305				7			5.2	4.6		3.2		305
	310							5.1	4.5		3		310
	315							4.9	4.4		2.8		315
	320							4.8	4.4		2.7		320

* adapter · pièce d'adaptateur

TAB 221618 / 221620 / 221622

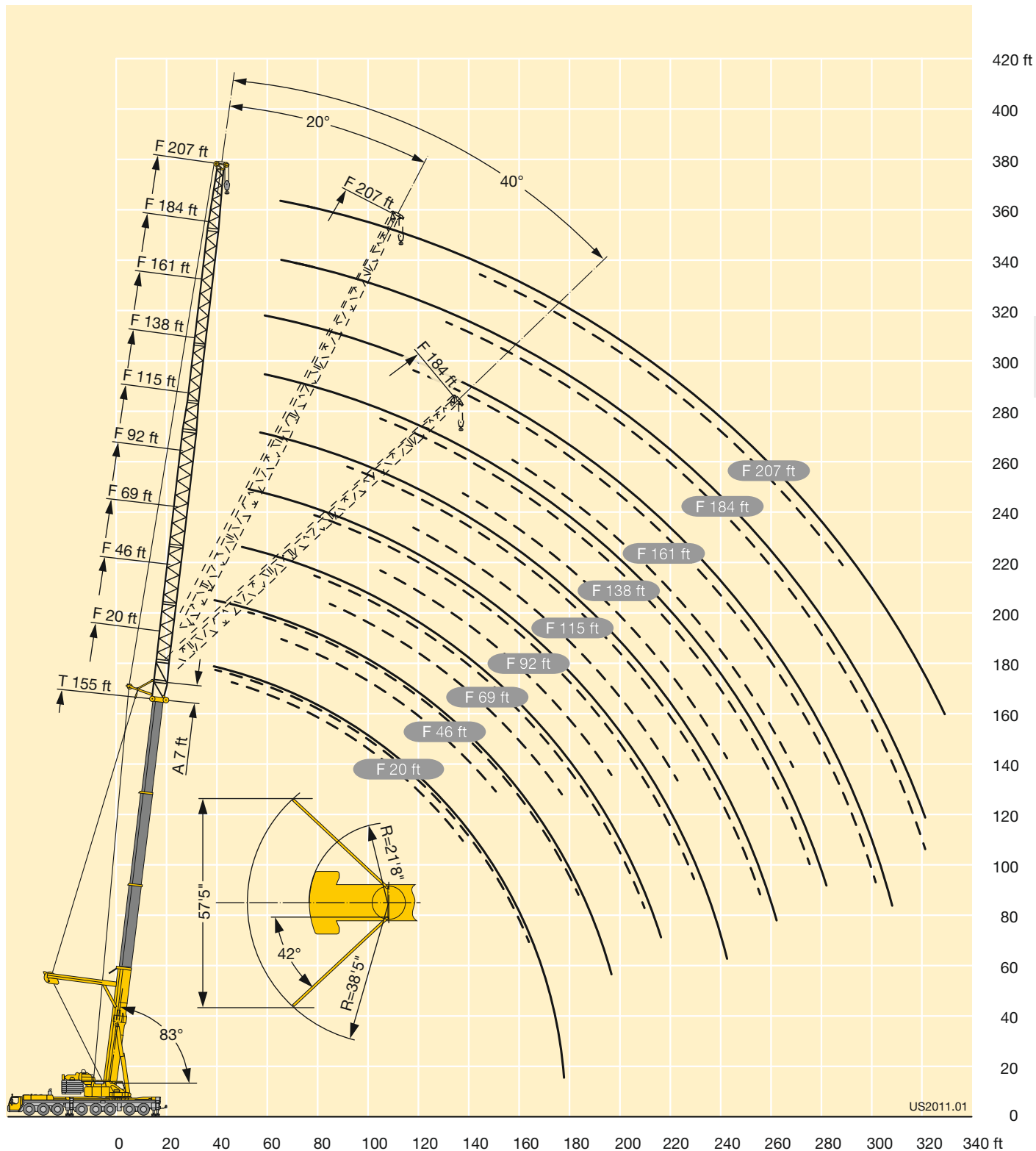


US2001.01

Lifting heights Hauteurs de levage



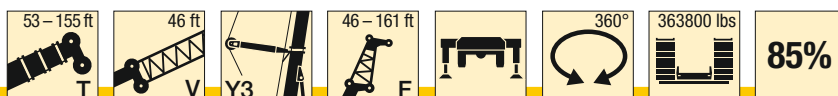
TY3EF



Lifting capacities Forces de levage



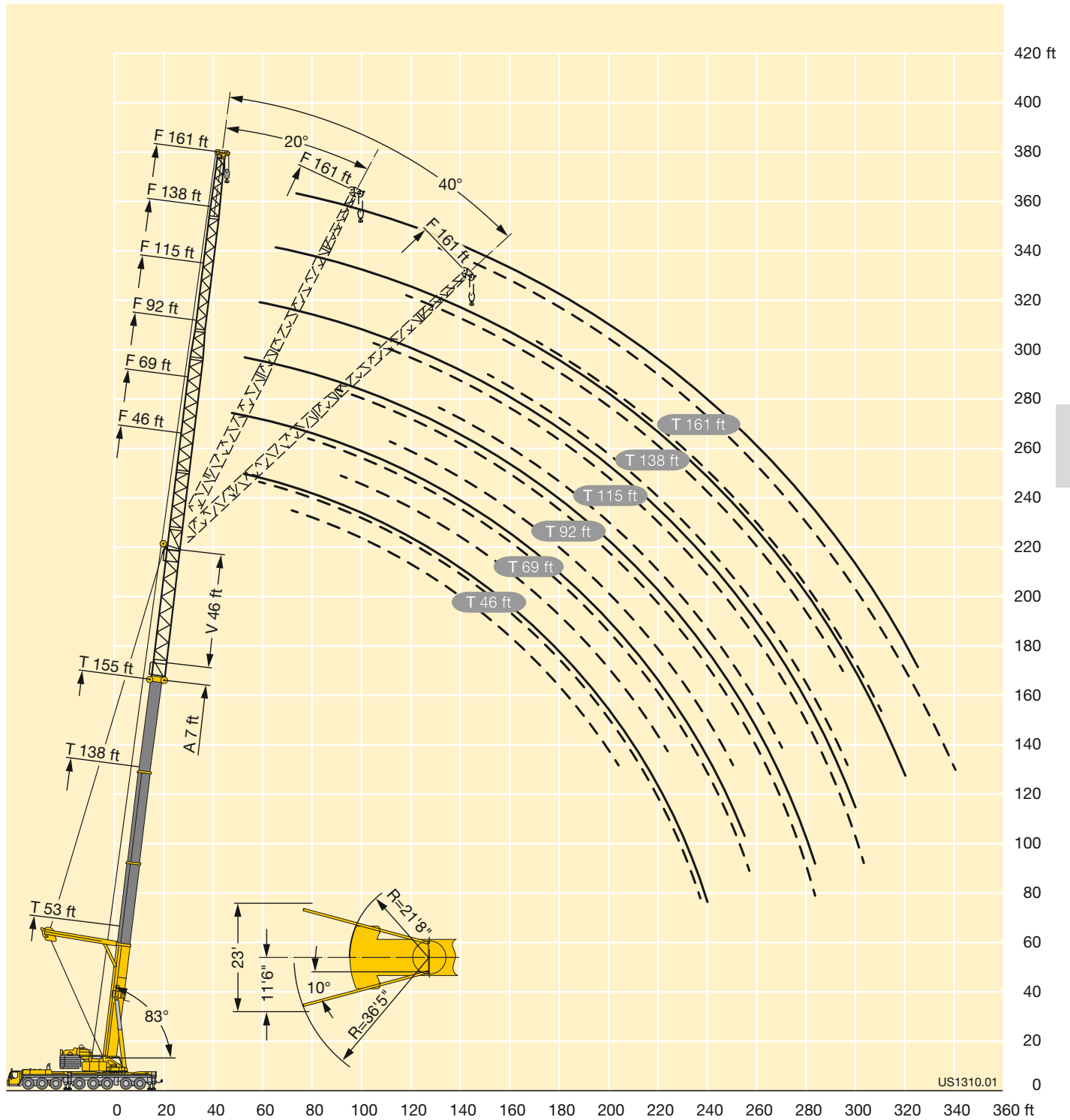
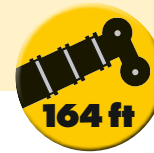
TVY3F



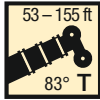
	53 ft + 46 ft + 7 ft*																		
	46 ft			69 ft			92 ft			115 ft			138 ft			161 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
45	130			110			85			68.5			57.5			47.3			45
50	123			104			81			65			55			45.2			50
55	115			97.5			76			61.5			52			42.8			55
60	108	79		91.5			71.5			57.7			49.3			40.6			60
65	102	76	62	86	63		67.5			54.4			46.8			38.6			65
70	96	73.5	61	81.5	61		63.5			51.4			44.6			36.8			70
75	91	71	60	77	58.7		60	45.3		48.7	35.7		42.4			35			75
80	87	68.5	59.1	73	56.5	39.7	56.7	43		46	35.2		40.4			33.4			80
85	83	67	58.1	69.5	54.5	38.7	53.6	40.9		43.5	33.3		38.5			31.8			85
90	79.5	65	57.1	66.5	52.7	37.9	50.8	39.1	27.7	41.2	31.3		36.8	27.1		30.4			90
95	76	63.5	56.4	63.5	51.1	37.1	48.4	37.4	27.3	39	29.5		35.2	26.4		29.1			95
100	73	62	55.8	61	49.6	36.4	46.3	35.8	26.5	37	27.7	19.8	33.6	25.3		27.8	19.6		100
105	69.5	60.5	55.6	58.4	48.2	35.7	44.3	34.3	25.8	35.1	26.2	19.8	32	24.2		26.6	19.6		105
110	67	59.3	55.5	56.1	46.9	35.1	42.5	32.9	25.2	33.6	24.8	19.2	30.3	22.8		25.5	18.7		110
115	65	58.2	55.5	53.8	45.6	34.5	40.8	31.6	24.6	32.2	23.6	18.6	28.9	21.6		24.3	17.9		115
120	63.5	57.3	55.4	51.6	44.2	34	39.1	30.4	24.1	30.8	22.3	18.1	27.6	20.4	13.6	23.1	17.1		120
125	61.5	57		49.6	42.8	33.7	37.5	29.4	23.7	29.5	21.1	17.6	26.5	19.4	13.6	21.9	16.1		125
130	60	56.8		48	41.5	33.6	36	28.4	23.2	28.3	20	17.1	25.5	18.5	13.2	20.9	15.1		130
135	58.6	56.6		46.8	40.2	33.5	34.5	27.5	22.7	27.1	19.2	16.7	24.5	17.7	12.8	20.1	14.2		135
140	57.1			45.8	39.1	33.4	33.1	26.6	22.1	26	18.6	16.3	23.5	16.8	12.4	19.3	13.4	8.9	140
145				44.8	38.3		31.9	25.7	21.5	24.9	18.1	15.9	22.5	16	12	18.5	12.7	8.9	145
150				43.8	37.7		31.1	24.8	21	23.9	17.7	15.4	21.6	15.3	11.7	17.7	12	8.6	150
155				42.9	37.2		30.4	24	20.6	22.8	17.2	14.8	20.7	14.7	11.5	16.9	11.3	8.3	155
160				42	36.6		29.7	23.3	20.2	21.9	16.8	14.1	19.8	14.2	11.2	16.2	10.7	8	160
165				39.9			29.1	22.8	19.9	21.1	16.4	13.4	18.9	13.7	11	15.5	10	7.5	165
170				32.9			28.5	22.5	19.5	20.7	15.9	12.9	18.1	13.3	10.7	14.8	9.5	7.1	170
175							27.9	22.2		20.2	15.5	12.4	17.2	12.8	10.5	14.1	9	6.6	175
180							27.3	21.9		19.8	15.1	12	16.5	12.4	10.2	13.5	8.6	6.2	180
185							26.8			19.3	14.8	11.6	16	12	9.8	12.8	8.2	5.8	185
190							26.2			18.9	14.4	11.2	15.5	11.6	9.3	12.2	7.9	5.4	190
195										18.5	14.1		15.1	11.2	8.9	11.6	7.5	5.1	195
200										18.1	13.8		14.7	10.8	8.6	11.2	7.1	4.7	200
205										17.7	13.4		14.3	10.5	8.2	10.8	6.8		205
210										17.4			13.8	10.3	7.9	10.5	6.5		210
215										17			13.5	10.2	7.6	10.1	6.1		215
220													13.1	10		9.8	5.8		220
225													12.7	9.9		9.5	5.5		225
230													12.3			9.2	5.3		230
235													12			9	5.2		235
240																8.7	5.1		240
245																8.4	5		245
250																8.2	4.8		250
255																7.9	4.7		255
260																7.6			260

* adapter · pièce d'adaptateur

TAB 221452 / 221454 / 221456



Lifting capacities Forces de levage



85%

ft	155 ft + 13 ft*											ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
55	113											55
60	112											60
65	106	96										65
70	102	93	82									70
75	98.5	89	80.5	69.5								75
80	95	85.5	78	69								80
85	91.5	82.5	75.5	67.5	58.3							85
90	88.5	79.5	73	65.5	57.2	48.8						90
95		77	70.5	63.5	56	48.2						95
100		74.5	68.5	61.5	54.8	47.3	40.5					100
105		72	66.5	59.8	53.2	46.3	39.6	33.3				105
110		69.5	64.5	58.1	51.8	45.3	38.8	32.7	28.2			110
115			63	56.6	50.5	44.2	38.1	32.1	27.9			115
120			61.5	55.3	49.1	43.1	37.3	31.5	27.3	23.2		120
125			59.8	54	47.9	42	36.5	30.9	26.8	22.8	17.9	125
130			58.4	52.8	46.8	41	35.6	30.4	26.3	22.4	17.5	130
135			57	51.7	45.9	40	34.7	29.7	25.9	22	17.2	135
140				50.6	45	39	33.8	29	25.4	21.6	16.9	140
145				49.6	44.2	38.2	33	28.3	24.9	21.2	16.6	145
150				48.6	43.5	37.5	32.2	27.6	24.3	20.8	16.3	150
155				47.6	42.7	36.9	31.4	27	23.8	20.3	16	155
160					42	36.2	30.8	26.3	23.3	19.9	15.7	160
165					41.3	35.6	30.2	25.7	22.8	19.5	15.4	165
170					40.7	35	29.8	25.1	22.3	19.1	15.1	170
175					40	34.5	29.3	24.6	21.8	18.7	14.7	175
180					39.4	33.9	28.9	24.1	21.4	18.4	14.4	180
185						33.4	28.5	23.6	21	18	14.1	185
190						32.9	28.2	23.2	20.6	17.6	13.8	190
195						32.4	27.8	22.8	20.3	17.3	13.5	195
200						31.9	27.4	22.3	20	16.9	13.3	200
205							27.1	21.9	19.7	16.6	13.1	205
210							26.7	21.5	19.4	16.3	12.8	210
215							26.4	21.2	19.1	16.1	12.6	215
220							26	20.8	18.9	15.8	12.5	220
225							25.7	20.4	18.6	15.6	12.3	225
230								20.1	18.4	15.3	12.1	230
235								19.7	18.1	15.1	11.9	235
240								19.4	17.9	14.9	11.7	240
245								19	17.7	14.6	11.5	245
250									17.4	14.4	11.4	250
255									17.2	14.2	11.2	255
260									17	14	11.1	260
265									16.8	13.8	10.9	265
270									16.5	13.6	10.8	270
275									16.3	13.4	10.6	275
280										13.2	10.5	280
285										13	10.3	285
290										12.8	10.2	290
295										12.6	10	295
300											9.9	300
305											9.8	305
310											9.6	310
315											9.5	315
320											9.3	320

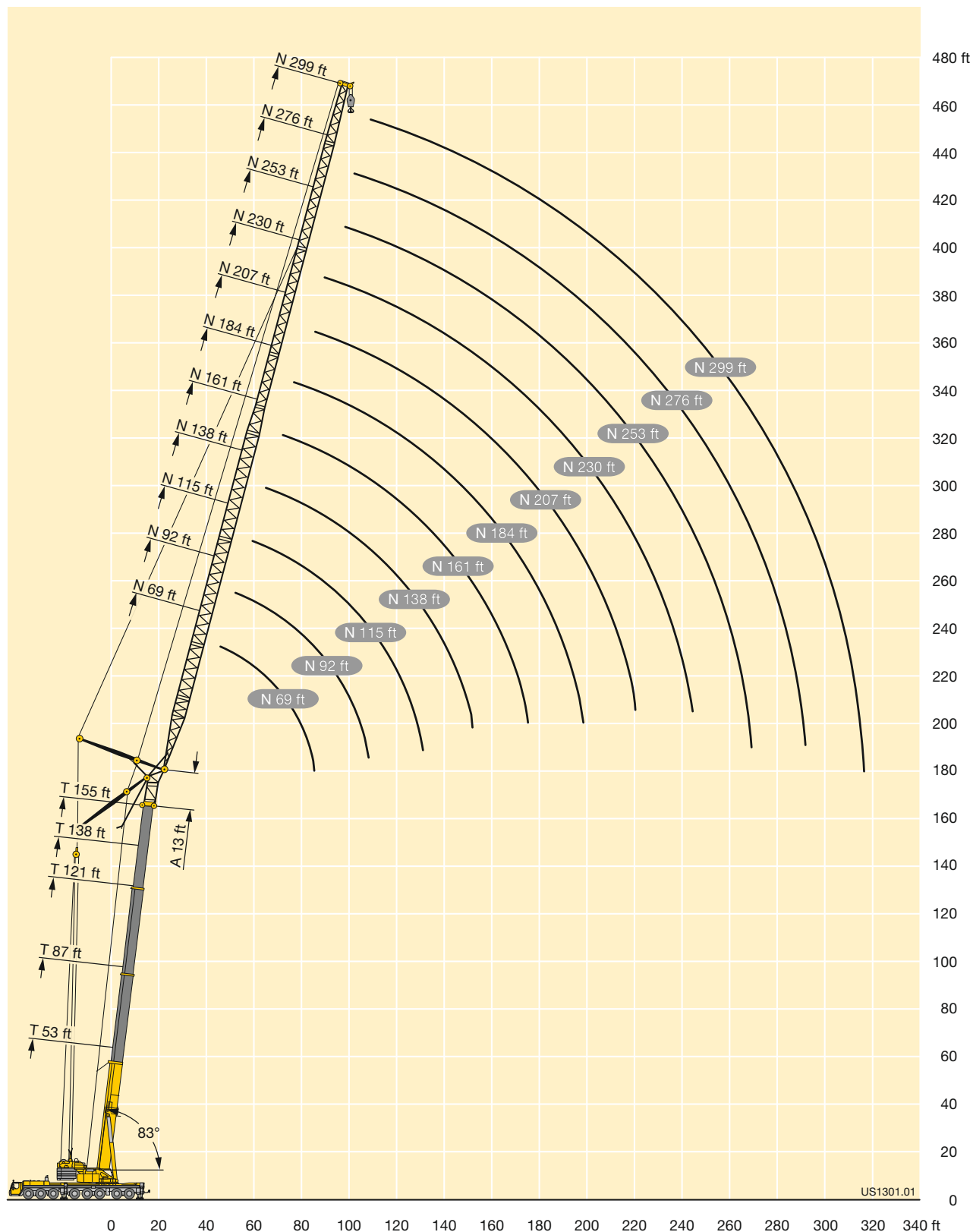
* adapter · pièce d'adaptateur

TAB 221151

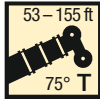
Lifting heights Hauteurs de levage



TN



Lifting capacities Forces de levage



ft	121 ft + 13 ft*											138 ft + 13 ft*											ft	
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft		
80	113											94											80	
85	107	104										89.5											85	
90	102	99										85	82										90	
95	98	94										81.5	78										95	
100	94.5	90	87.5									74	72.5										100	
105		86	83.5									71.5	69	65									105	
110		82	80	76								68.5	66	63.5									110	
115		79.5	77	74								65.5	63.5	60.5	54.7								115	
120		77.5	73.5	71	68							63	61	58.1	54.6								120	
125			71	68.5	65.5							62	58.7	55.7	52.8								125	
130			68	66	63	58.5							56.6	53.7	50.9	45.4							130	
135			66.5	63.5	60.5	57.1							54.6	51.9	48.9	44.8	38.7						135	
140			65.5	61.5	58.6	55.2	50.1						52.8	50.2	47	43.5	38.6						140	
145			65	59.3	56.6	53.4	49							51.9	48.5	45.4	42.2	37.5					145	
150			64	57.5	54.7	51.7	47.8	42						46.9	43.9	40.8	36.6	31.6					150	
155				56.7	52.9	50	46.5	41.3						45.4	42.5	39.4	35.6	31.2	27.2				155	
160				56.1	51.1	48.5	45.1	40.6	35.7						44.1	41.2	38.1	34.6	30.4	27.1			160	
165				55.6	49.5	46.9	43.7	39.8	35.2						43.5	39.9	36.9	33.7	29.7	26.5			165	
170				55.1	48.4	45.4	42.4	38.9	34.7	30.1					43.4	38.6	35.7	32.6	29	25.9	22.4		170	
175					47.8	44	41.1	37.9	34.2	29.8						37.4	34.6	31.6	28.3	25.4	22.1		175	
180					47.3	42.6	39.9	36.8	33.7	29.5	24.4					36.3	33.5	30.5	27.6	24.8	21.7		180	
185					46.9	41.4	38.7	35.7	32.2	29.2	24.3					35.8	32.5	29.6	26.7	24.3	21.3	17.3	190	
190					46.5	40.7	37.5	34.7	32.5	28.8	24.1					35.8	31.5	28.6	25.8	23.8	20.8	16.9	195	
195					46.2	40.3	36.3	33.7	31.6	28.3	23.9						30.5	27.7	24.9	23.3	20.4	16.6	200	
200						40	35.3	32.7	30.7	27.9	23.6						29.7	26.8	24.1	22.7	20	16.2	205	
205						39.6	34.4	31.7	29.9	27.5	23.4							29.2	25.9	23.2	21.9	19.6	15.8	210
210						39.2	33.8	30.8	29	27.1	23.2							29.2	24.9	22.3	21.1	19.2	15.5	215
215						38.9	33.4	29.7	28.2	26.4	22.9							29.1	23.9	21.5	20.3	18.6	15.1	220
220							33	28.8	27.4	25.7	22.5								23.2	20.6	19.6	17.9	14.6	225
225							32.7	28.1	26.6	25	22								22.8	19.7	18.8	17.2	14.1	230
230							32.4	27.7	25.6	24.3	21.4								22.8	18.9	18	16.6	13.5	235
235							32	27.4	24.7	23.7	20.8													240
240							31.7	27.1	23.9	23.1	20.3								22.8	18.1	17.2	16	13	245
245								26.8	23.4	22.3	19.7									17.5	16.4	15.3	12.5	250
250								26.6	23.2	21.5	19.1									17.2	15.7	14.6	11.9	255
255								26.3	22.9	20.7	18.5									17.2	15	14	11.4	260
260								26.1	22.7	20.1	17.8									17.2	14.2	13.3	10.9	265
265									22.4	19.8	17.1									17.2	13.7	12.7	10.5	270
270									22.2	19.6	16.3										13.5	12.1	10	275
275									22	19.3	15.7										13.5	11.5	9.5	280
280									21.8	19.1	15.3										13.5	10.9	9.1	285
285									21.5	18.9	15										13.5	10.5	8.6	290
290										18.7	14.8											10.3	8.2	295
295										18.4	14.6											10.3	7.7	300
300										18.2	14.4											10.3	7.3	305
305										18.1	14.2											10.3	7	310
310											14											10.3	6.9	315
315											13.8												6.9	320
320											13.7												6.9	325
325											13.5												6.9	325

* adapter · pièce d'adaptateur

TAB 221157

Lifting capacities Forces de levage

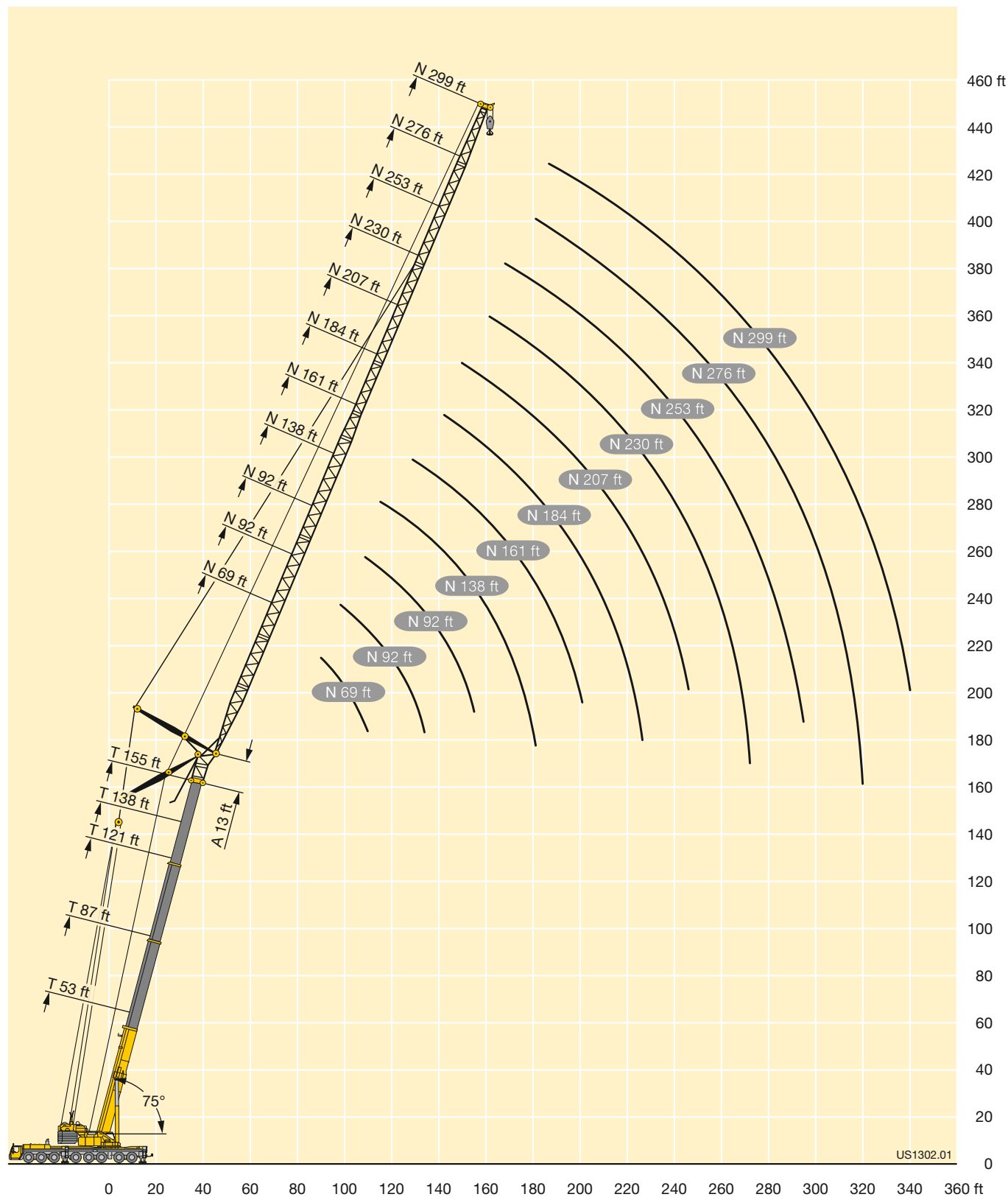


85%

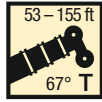
ft	155 ft + 13 ft*											ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
90	76											90
95	73.5											95
100	70	66.5										100
105	67.5	63.5										105
110	65	60.5	57.2									110
115		58	55.5									115
120		55.8	53.2	50.2								120
125		54	51.1	48.2								125
130		52.7	49.1	46.3	42.4							130
135		51.5	47.4	44.5	41.3							135
140			45.9	42.9	39.8	34.6						140
145			44.7	41.3	38.4	34.4						145
150			43.6	39.8	37	33.2	29.1					150
155			42.5	38.7	35.6	32	28.3					155
160				37.8	34.4	30.9	27.4	23.1				160
165				37.2	33.2	29.8	26.5	23				165
170				36.6	32.1	28.8	25.7	22.3	19.5			170
175				36.1	31.3	27.8	24.8	21.6	18.9			175
180				35.5	30.7	26.8	23.9	20.9	18.3	15.4		180
185					30	25.9	23.1	20.1	17.7	15.2		185
190					29.4	25	22.2	19.3	17.1	14.7	11.4	190
195					28.8	24.6	21.4	18.5	16.6	14.1	11.1	195
200					28.2	24.3	20.6	17.7	16	13.6	10.7	200
205						23.9	19.9	17	15.4	13.1	10.4	205
210						23.6	19.5	16.3	14.8	12.6	10.1	210
215						23.2	19.1	15.7	14.1	12.1	9.7	215
220						22.9	18.7	15.3	13.5	11.7	9.4	220
225						22.6	18.2	14.8	12.9	11.2	9.1	225
230							17.8	14.4	12.3	10.8	8.8	230
235							17.4	13.9	11.7	10.4	8.4	235
240							17.1	13.5	11.3	10	8	240
245							16.7	13.1	11.1	9.6	7.6	245
250								12.7	10.9	9.3	7.3	250
255								12.3	10.7	8.9	6.9	255
260								11.9	10.5	8.6	6.5	260
265								11.4	10.2	8.4	6.1	265
270								11	10	8.3	5.7	270
275								10.6	9.8	8.1	5.4	275
280									9.5	8	5.2	280
285									9.3	7.9	5.1	285
290									9.1	7.8	4.9	290
295									8.9	7.6	4.7	295
300										7.5	4.6	300
305										7.4	4.4	305
310										7.3	4.3	310
315										7.1	4.1	315
320										7	3.9	320
325											3.8	325
330											3.6	330
340											3.3	340

* adapter · pièce d'adaptateur

TAB 221157



Lifting capacities Forces de levage



ft	53 ft + 13 ft*										87 ft + 13 ft*										ft			
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft		
75	168																						75	
80	157																						80	
85	147	145										135											85	
90	138	137										128											90	
95		129										121											95	
100		122	121									114	113										100	
105		116	114									107											105	
110		110	109	105								101	98										110	
115		105	103	102								96.5	94.5										115	
120			98.5	97								92	90										120	
125			94	92.5	91							87.5	86	84.5									125	
130			90	88.5	87							83.5	82	80.5									130	
135			86	84.5	83.5								78.5	77									135	
140				81	79.5	78.5							75	74	72.5								140	
145				78	76.5	75							72	71	69.5								145	
150				75	73.5	72	68.5						69	68	66.5	64.5							150	
155				72	70.5	69.5	67.5							65.5	64	62							155	
160				69	68	66.5	65.5							63	61.5	59.7							160	
165					65	64	63	47.2						60.5	59	57.3	56.4						165	
170					63	61.5	61	46.2						58.2	56.8	55.2	54.2						170	
175					60.5	59.5	58.7	45.3						56.1	54.7	53.1	52.2						175	
180					58.5	57.4	56.5	44.5	42.5						52.8	51.2	50.3	45.5					180	
185						55.4	54.5	43.7	41.8						50.9	49.3	48.4	44.7					185	
190						53.5	52.6	42.9	41.1	29.6					49.1	47.6	46.7	43.9	41.5				190	
195						51.7	50.9	42.2	40.4	29.1					47.5	46	45.1	43.2	40.9				195	
200						50	49.2	41.6	39.8	28.5						44.4	43.5	42.1	40.4				200	
205						48.4	47.6	40.9	39.3	28	25.1					42.9	42	40.6	39.5	28.8			205	
210							46	40.3	38.7	27.5	24.7					41.5	40.6	39.2	38.2	28.3			210	
215							44.6	39.7	38.2	27.1	24.3					40.2	39.3	37.9	36.8	27.8	24.6		215	
220							43.2	39.2	37.6	26.6	23.9					38.9	38	36.6	35.6	27.4	24.3		220	
225							41.8	38.8	37.1	26.2	23.5							36.8	35.4	34.4	26.9	23.9	225	
230								38.3	36.6	25.8	23.2							35.6	34.2	33.2	26.5	23.6	230	
235								37.9	36.3	25.4	22.9							34.5	33.1	32.1	26.1	23.3	235	
240								36.9	35.6	25	22.5							33.4	32.1	31	25.7	22.9	240	
245								35.8	34.7	24.6	22.2								31.1	30	25.3	22.6	245	
250								34.5	33.6	24.2	21.9								30.1	29	24.9	22.3	250	
255								32.2	32.6	23.8	21.6								29.2	28.1	24.5	22	255	
260									31.6	23.5	21.4								28.3	27.1	24.2	21.7	260	
265									30.6	23.2	21.2								27.4	26.3	23.9	21.5	265	
270									29.7	23	20.9									25.4	23.6	21.2	270	
275									28.8	22.7	20.8										24.6	23.4	20.9	275
280										22.5	20.6										23.9	22.7	20.7	280
285										22.2	20.4										23.1	21.9	20.4	285
290										22	20.2											21.2	20	290
295										21.9	20											20.5	19.2	295
300										21.5	19.9											19.9	18.6	300
305											19.7											19.2	18	305
310											19.5											18.6	17.3	310
315											19.4												16.7	315
320											18.9												16.2	320
325																							15.6	325

* adapter · pièce d'adaptateur

TAB 221163

Lifting capacities Forces de levage



ft	121 ft + 13 ft*										138 ft + 13 ft*										ft		
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
105	82.5											66.5											105
110	78.5											64.5											110
115	75.5											62											115
120		70																					120
125		67											56.4										125
130		64	62.5										54.2										130
135		62	60.5										52										135
140		59.9	58.1										50	48.4									140
145			55.8	54.1									48	46.6									145
150			53.6	52.2									46.6	44.9	42.3								150
155			51.9	50.2	47.4								43.1	41.1									155
160			50.4	48.3	46.5								41.4	39.5	36								160
165				46.5	44.8								39.8	38	35.7								165
170				45	43.1	40.4							38.8	36.6	34.3								170
175				43.7	41.4	39.1								35.2	33	29.7							175
180				42.5	39.8	37.6	34.4							33.8	31.7	29							180
185				41.4	38.4	36.2	34.1							32.6	30.5	27.8							185
190				40.5	37.2	34.8	32.8							31.9	29.3	26.7	24.1						190
195					36.2	33.5	31.5	29.2						31.4	28.1	25.6	23.1						195
200					35.2	32.2	30.3	28.5							27	24.6	22.1	18.9					200
205					34.3	31.1	29	27.4	25.4						26	23.6	21.1	18.6					205
210						30.1	27.9	26.3	25.4						25.4	22.6	20.1	17.6					210
215						29.3	26.7	25.3	24.4						25	21.6	19.1	16.8	15				215
220						28.5	25.7	24.2	23.4	21.8						20.7	18.2	16	14.4				220
225						27.8	24.8	23.2	22.5	21.4						19.9	17.3	15.3	13.7	11.5			225
230						27	24.1	22.2	21.5	20.5						19.4	16.5	14.5	13.1	11.5			230
235						26.5	23.4	21.3	20.6	19.6	17.4					19.1	15.6	13.8	12.5	10.9			235
240							22.7	20.5	19.7	18.7	16.8					18.8	14.8	13.1	11.9	10.4	8.2		240
245							22	19.8	18.8	17.9	16.1						14.1	12.4	11.4	9.9	7.9		245
250							21.4	19.1	17.9	17.1	15.3						13.7	11.7	10.8	9.4	7.4		250
255							20.7	18.5	17.1	16.2	14.6						13.5	11.1	10.3	9	7		255
260								18	16.5	15.5	13.9						13.2	10.4	9.7	8.5	6.6		260
265								17.4	15.9	14.7	13.2								9.9	9.2	8.1	6.2	265
270								16.8	15.4	13.9	12.6								9.6	8.7	7.7	5.8	270
275								16.3	14.8	13.2	11.9								9.5	8.2	7.2	5.4	275
280								16.1	14.3	12.8	11.3								9.4	7.7	6.8	5	280
285									13.8	12.4	10.6								9.2	7.4	6.4	4.6	285
290									13.4	12	10									7.2	6	4.2	290
295									12.9	11.6	9.5									7	5.6	3.9	295
300									12.5	11.3	9.2									6.9	5.3	3.5	300
305										10.9	8.9									6.8	5	3.2	305
310										10.6	8.6										4.8	2.8	310
315										10.2	8.2										4.7		315
320										9.9	7.9										4.6		320
325										9.8	7.6										4.5		325
330											7.3												330
340											6.8												340

* adapter · pièce d'adaptateur

TAB 221163

Lifting capacities Forces de levage

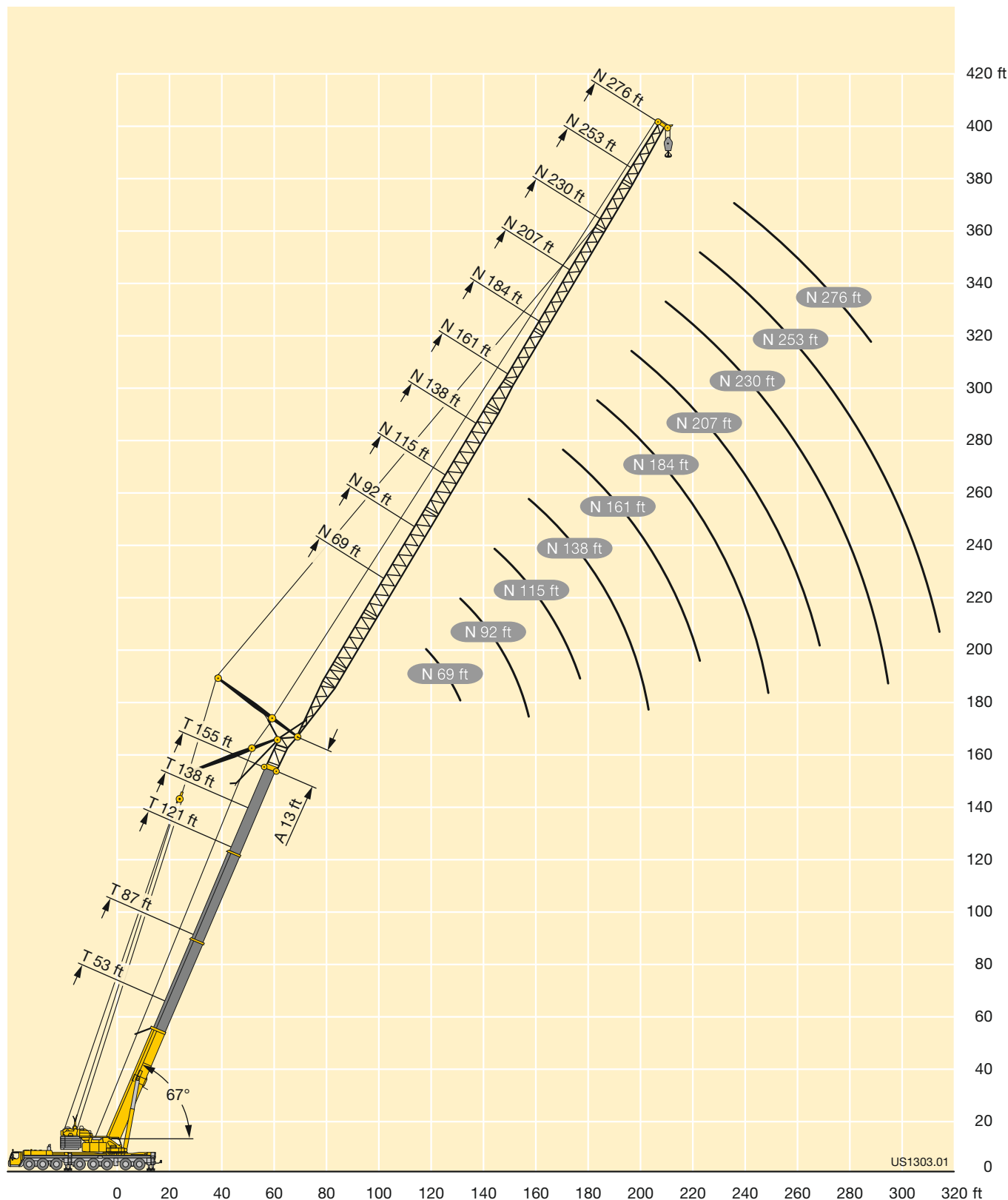


85%

ft	155 ft + 13 ft*										ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	
120	53.6										120
125	51.2										125
130	49.1	45.9									130
135		44.4									135
140		42.5									140
145		40.7	39.3								145
150		39.2	37.7								150
155		37.8	36.1								155
160			34.6	32.6							160
165			33.1	31.2							165
170			31.9	29.8	27.7						170
175			30.9	28.6	26.6						175
180				27.4	25.4	21.8					180
185				26.3	24.3	21.5					185
190				25.3	23.2	20.4					190
195				24.7	22.1	19.3	16.3				195
200				24	21.2	18.3	15.6				200
205					20.4	17.4	14.5	11.4			205
210					19.7	16.4	13.5	11.4			210
215					19.1	15.5	12.9	10.7			215
220					18.5	14.7	12.3	10.1	8.9		220
225						14.1	11.6	9.5	8.7		225
230						13.7	11.1	9	8.2		230
235						13.2	10.5	8.6	7.6	6.5	235
240						12.8	10	8.1	7.1	6.1	240
245						12.4	9.6	7.6	6.7	5.7	245
250							9.3	7.2	6.3	5.2	250
255							9	6.8	5.8	4.8	255
260							8.7	6.4	5.4	4.4	260
265							8.5	6	5.1	4	265
270								5.8	4.7	3.7	270
275								5.6	4.3	3.3	275
280								5.4	3.9	2.9	280
285								5.2	3.7	2.6	285
290								5	3.5		290
295								4.7	3.4		295
300									3.2		300
305									3		305
310									2.9		310

* adapter · pièce d'adaptateur

TAB 221163

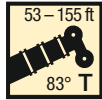


US1303.01

Lifting capacities Forces de levage



TVN



85%

ft	53 ft + 46 ft + 13 ft*										87 ft + 46 ft + 13 ft*										ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	
45	114																				45
50	107																				50
55	99	94									104										55
60	92.5	87.5	83.5								97.5	91.5									60
65	89	82	78	73							92	86	80								65
70	85.5	77	73.5	69.5							87.5	81	76.5								70
75	82.5	73	69	65.5	61						83.5	77	72.5	67.5							75
80	79.5	70	65	61.5	57.6	53.1					80.5	73.5	68.5	64	59						80
85	77	68	61.5	58.1	54.4	50.3	46				79.5	70	65	61	56.2	50.8					85
90		66	59.1	55.2	51.7	47.6	43.8					67	62.5	58.2	53.7	48.7					90
95		64.5	57.4	52.5	49.3	45.1	41.5	37.6				64.5	59.9	55.5	51.3	46.6	41.9				95
100		63	56.1	50	47.1	42.8	39.4	35.6	32.9			63	57.4	53	49.1	44.5	40.1	35.7			100
105			54.9	47.5	44.9	40.7	37.4	33.8	31.2			62.5	55.1	51.1	46.9	42.6	38.3	34.2	30.9		105
110			53.7	46.7	42.9	39	35.5	32	29.6	26.4		62.5	53.2	49.2	44.9	40.8	36.7	32.7	29.5		110
115			52.6	46	41	37.4	33.7	30.4	28	25.5			52.5	47.4	43.2	39.1	35.1	31.3	28.3	24.6	115
120			51.6	45.3	39.1	35.8	31.9	28.8	26.5	24.2			52.2	45.7	41.7	37.4	33.7	29.9	27.1	24.2	120
125			50.6	44.7	37.4	34.3	30.2	27.3	25.1	23			52	44.1	40.3	35.8	32.2	28.6	25.9	23.1	125
130			49.6	44.1	35.6	32.9	28.7	26	23.8	21.8			51.8	42.7	38.9	34.5	30.9	27.3	24.8	22.1	130
135				43.5	34.5	31.6	27.5	24.7	22.6	20.6				42	37.6	33.3	29.5	26.1	23.8	21.1	135
140				42.9	33.9	30.3	26.4	23.5	21.4	19.5				41.6	36.4	32.2	28.3	24.9	22.8	20.2	140
145				42.4	33.8	29.1	25.3	22.3	20.3	18.4				41.2	35.2	31.1	27.4	23.9	21.8	19.3	145
150				41.8	33.7	27.9	24.3	21.1	19.2	17.6				40.9	34.1	30	26.5	22.9	20.8	18.4	150
155					33.6	26.7	23.3	20	18.2	16.7				40.6	33.7	29	25.6	22.1	19.9	17.6	155
160					33.5	25.8	22.4	19	17.2	15.9					33.6	28	24.8	21.3	19	16.8	160
165					33.4	25.2	21.4	18.2	16.3	15.1					33.4	27.2	24	20.6	18.2	16	165
170					33.3	25.2	20.5	18.1	15.3	14.4					33.3	27.1	23.2	19.9	17.5	15.3	170
175					33.3	25.2	19.9	17.9	14.5	13.6					33.1	27	22.5	19.2	16.9	14.8	175
180						25.2	19.7	17.7	14.1	12.9						26.9	21.8	18.5	16.3	14.3	180
185						25.2	19.7	17.5	14	12.2						26.8	21.1	17.8	15.7	13.8	185
190						25.2	19.7	17.3	13.8	11.5						26.7	20.4	17.2	15.1	13.3	190
195						25.2	19.7	17.1	13.6	11.1						26.6	20.3	16.5	14.6	12.9	195
200							19.7	16.9	13.4	10.8						26.5	20.3	15.9	14.1	12.4	200
205							19.7	16.7	13.3	10.7							20.3	15.5	13.6	12	205
210							19.7	16.5	13.1	10.6							20.3	15.4	13.1	11.6	210
215							19.7	16.3	12.9	10.5							20.3	15.4	12.6	11.2	215
220							19.7	16.1	12.8	10.3							20.3	15.4	12.4	10.8	220
225								15.9	12.6	10.2								15.4	12.3	10.4	225
230								15.7	12.5	10.1								15.4	12.3	10	230
235								15.5	12.3	10								15.4	12.3	9.9	235
240								15.3	12.2	9.9								15.4	12.3	9.8	240
245									12	9.8									12.3	9.8	245
250									11.9	9.7									12.3	9.8	250
255									11.7	9.6									12.3	9.8	255
260									11.6	9.5									12.3	9.8	260
265									11.5	9.4									12.3	9.8	265
270										9.3										9.8	270
275										9.2										9.8	275
280										9.1										9.8	280
285										9										9.8	285
290																				9.8	290
295																				9.8	295

* adapter · pièce d'adaptateur

TAB 221154

Lifting capacities Forces de levage



TVN



ft	121 ft + 46 ft + 13 ft*										138 ft + 46 ft + 13 ft*										ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	
60	94.5										87.5										60
65	89.5	81									83	70									65
70	85	78									79	70									70
75	81	74.5	69								75	68.5	60.5								75
80	77.5	71	66	60.5							71.5	65.5	59.9								80
85	74.5	67.5	63	57.8	52.1						68	63	57.6	51.7							85
90	73.5	65	60.5	55.6	50.3						65.5	60.5	55.4	50	43.9						90
95		62.5	58	53.4	48.4	43.1						57.8	53.4	48.2	42.9	36.4					95
100		60.5	55.8	51.3	46.7	41.5	36.6					55.4	51.4	46.6	41.4	36	29.6				100
105		59	53.7	49.4	45	40.1	35.4	30.6				53.1	49.6	45	40	34.8	29.6				105
110		58.3	51.9	47.6	43.4	38.7	34.1	29.7	25			51.7	47.9	43.5	38.7	33.6	28.7	23.3			110
115			50.2	45.9	41.8	37.3	33	28.8	24.6			50.5	46.1	42.1	37.4	32.5	27.7	22.9	18.3		115
120			48.9	44.4	40.3	36	31.8	27.8	24.1	19.4			44.4	40.8	36.2	31.4	26.8	22.3	18.1	13.8	120
125			48.1	43	38.9	34.7	30.7	26.8	23.6	19.4			42.9	39.5	35	30.3	25.9	21.7	17.6	13.8	125
130			47.7	41.7	37.7	33.5	29.6	26	23.1	19			42	38.3	33.9	29.3	25	21	17.2	13.5	130
135			47.4	40.6	36.5	32.3	28.6	25.1	22.4	18.6			41.2	37.1	32.9	28.4	24.2	20.3	16.7	13.2	135
140				39.9	35.4	31.3	27.5	24.3	21.7	18.2				35.9	31.9	27.5	23.4	19.5	16.3	12.9	140
145				39.5	34.3	30.3	26.5	23.4	20.9	17.9				35	31	26.6	22.6	18.8	15.9	12.6	145
150				39.3	33.4	29.4	25.6	22.5	20.2	17.5				34.4	30.1	25.8	21.9	18.1	15.5	12.3	150
155				39.1	32.7	28.5	24.8	21.7	19.5	17				33.8	29.1	25	21.2	17.5	15	12	155
160					32.4	27.6	24.1	20.9	18.8	16.4				33.3	28.3	24.3	20.5	16.8	14.4	11.7	160
165					32.2	26.8	23.4	20.2	18.1	15.9					27.8	23.5	19.9	16.2	13.8	11.5	165
170					32.2	26.1	22.7	19.6	17.5	15.3					27.3	22.7	19.3	15.6	13.3	11.2	170
175					32	25.8	22	19.1	16.8	14.8					26.9	21.9	18.7	15.2	12.8	11	175
180					31.9	25.7	21.4	18.5	16.2	14.2					26.5	21.4	18.1	14.7	12.3	10.7	180
185						25.7	20.8	18	15.7	13.7						21.1	17.4	14.2	11.9	10.3	185
190						25.6	20.3	17.5	15.3	13.2						20.8	16.7	13.7	11.6	9.9	190
195						25.6	20.2	17	14.8	12.8						20.4	16.3	13.1	11.3	9.6	195
200						25.5	20.2	16.5	14.4	12.5						20.1	15.9	12.6	10.9	9.2	200
205							20.1	16.1	14	12.1						19.8	15.6	12	10.5	9	205
210							20.1	15.8	13.6	11.8							15.3	11.6	10.1	8.7	210
215							20.1	15.8	13.2	11.5							15.1	11.4	9.8	8.4	215
220							20	15.8	12.8	11.2							14.8	11.2	9.4	8	220
225							20	15.8	12.5	10.9							14.6	11	9.1	7.7	225
230								15.7	12.4	10.6								10.9	8.8	7.4	230
235								15.7	12.4	10.3								10.7	8.6	7.1	235
240								15.7	12.4	10.1								10.6	8.5	6.8	240
245								15.6	12.4	9.9								10.4	8.4	6.5	245
250									12.3	9.9								10.3	8.3	6.3	250
255									12.3	9.9								10.2	8.2	6.2	255
260									12.3	9.9									8.1	6.1	260
265									12.3	9.9									7.9	6	265
270									12.3	9.8									7.8	5.9	270
275									12.2	9.8									7.7	5.8	275
280										9.8										5.8	280
285										9.8										5.7	285
290										9.8										5.6	290
295										9.8										5.5	295
300										9.8										5.4	300

* adapter · pièce d'adaptateur

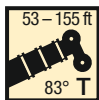
TAB 221154

J

Lifting capacities Forces de levage



TVN



85%

ft	155 ft + 46 ft + 13 ft*										ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	
65	69.5										65
70	66.5	58.3									70
75	63.5	57	50.2								75
80	60.5	54.7	49.7								80
85	57.5	52.5	47.9	42.6							85
90	55.2	50.4	46.2	41.3	35.5						90
95		48.2	44.6	40	34.7	28.6					95
100		46.2	42.9	38.6	33.6	28.3	22.8				100
105		44.4	41.2	37.1	32.5	27.4	22.8				105
110		43	39.5	35.7	31.5	26.5	21.9				110
115		41.6	38	34.4	30.4	25.7	21.1	16.6			115
120			36.6	33.1	29.2	24.8	20.3	16.3	12.6		120
125			35.5	31.9	28.1	23.9	19.6	15.6	12.5		125
130			34.5	30.7	27	22.9	18.8	14.9	12.2	9.4	130
135			33.5	29.8	26	22.1	18.1	14.2	11.8	9.2	135
140				29	25	21.2	17.4	13.6	11.4	9	140
145				28.2	24.1	20.4	16.7	12.9	10.9	8.7	145
150				27.4	23.2	19.6	15.9	12.3	10.5	8.4	150
155				26.7	22.6	18.8	15.2	11.8	10.1	8.1	155
160				26	22	18.1	14.4	11.3	9.6	7.8	160
165					21.4	17.4	13.6	10.8	9.2	7.5	165
170					20.9	16.9	12.9	10.3	8.8	7.2	170
175					20.3	16.4	12.3	9.9	8.4	6.9	175
180					19.8	16	11.7	9.5	8.1	6.6	180
185						15.5	11.4	9	7.7	6.3	185
190						15.1	11.1	8.6	7.3	6	190
195						14.7	10.9	8.3	7	5.6	195
200						14.3	10.6	8.1	6.7	5.3	200
205						13.9	10.4	7.9	6.4	5	205
210							10.2	7.7	6	4.7	210
215							10	7.5	5.7	4.4	215
220							9.8	7.3	5.4	4.2	220
225							9.6	7.1	5.1	3.9	225
230								6.9	4.8	3.6	230
235								6.8	4.7	3.4	235
240								6.6	4.6	3.1	240
245								6.4	4.5	2.9	245
250								6.2	4.4	2.7	250
255								6.1	4.3	2.6	255
260									4.2	2.5	260
265									4.1	2.4	265
270									4	2.3	270
275									3.9	2.2	275
280										2.2	280

J

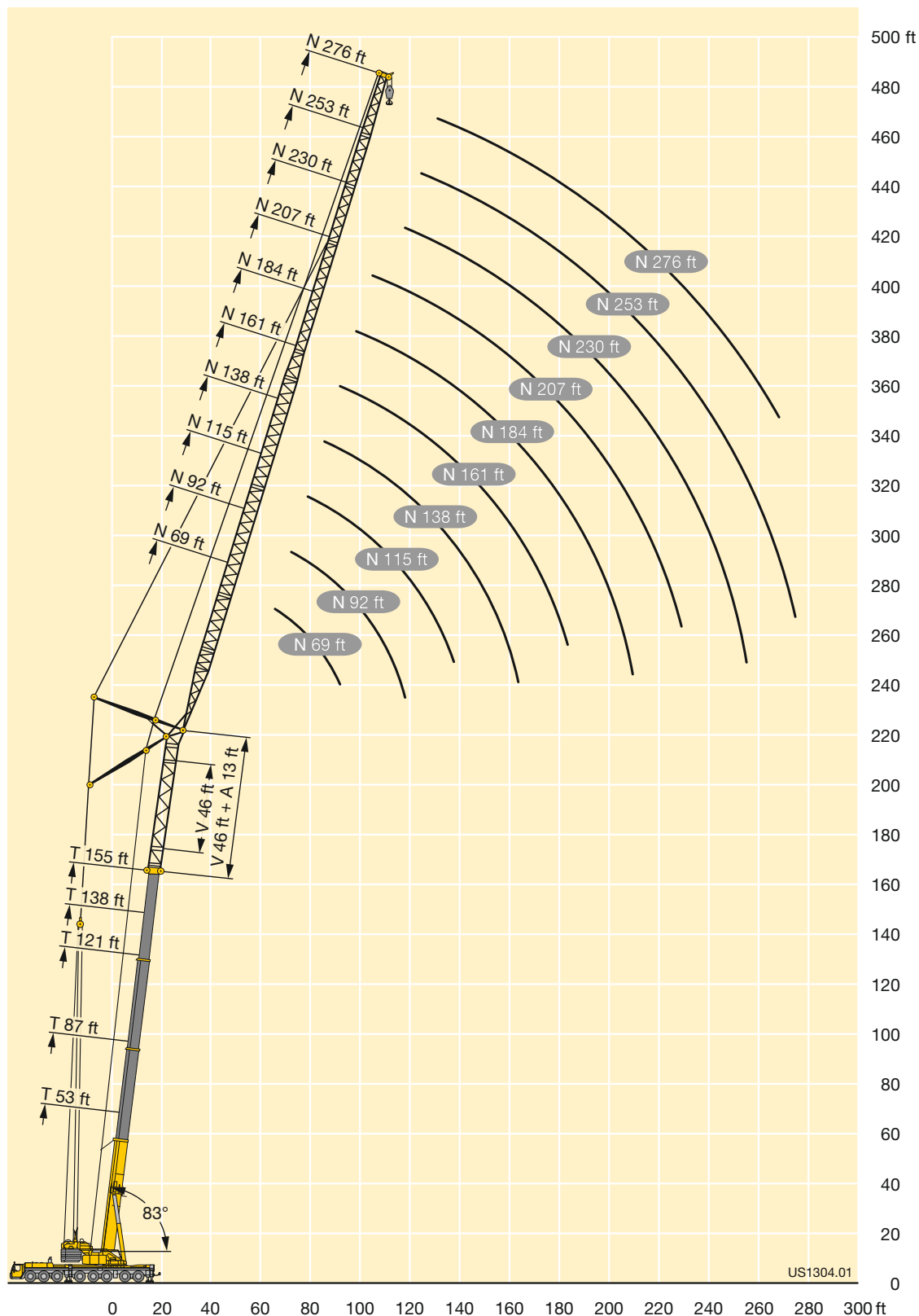
* adapter · pièce d'adaptateur

TAB 221154

Lifting heights Hauteurs de levage



TVN

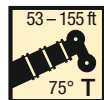


J

Lifting capacities Forces de levage



TVN

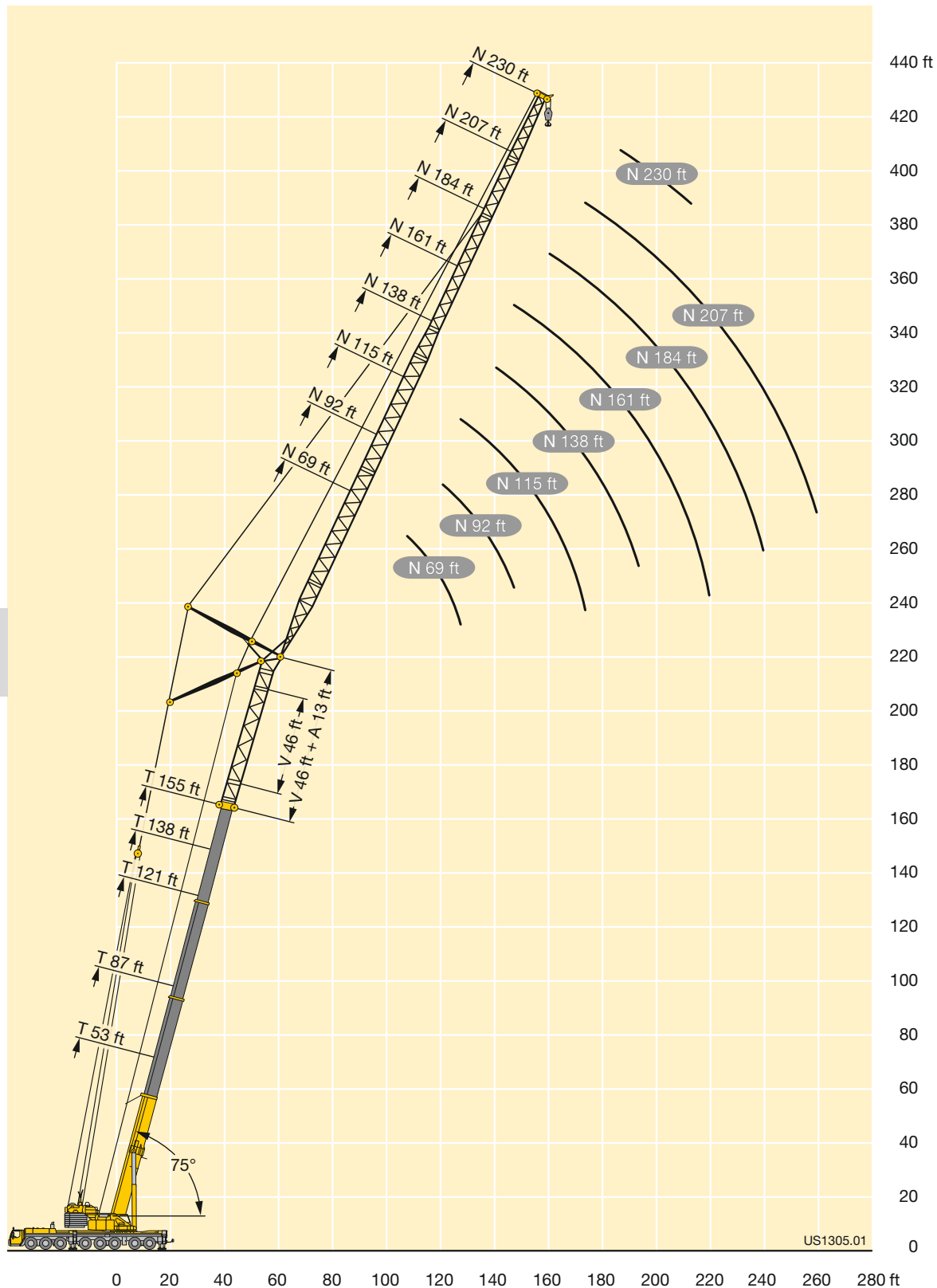


85%

ft	53 ft + 46 ft + 13 ft*										87 ft + 46 ft + 13 ft*										ft	
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft		
65	82																				65	
70	77.5																				70	
75	72.5																				75	
80	68.5	65									75.5										80	
85	64.5	61	58								71.5										85	
90	62.5	57.7	55.2								68										90	
95	60.5	54.7	52.3								64.5	60									95	
100		52.2	49.6	46.8							62.5	57.3	54.1								100	
105		50.3	47	44.4								54.5	51.6								105	
110		49	44.9	42.2	38.9							52.3	49.3	45.4							110	
115		47.7	43	40.2	37.6							50.4	47.2	44.1							115	
120			41.3	38.4	35.8	32.5						49	45.2	42.2	38.8						120	
125			40.1	36.8	34	30.9						48.2	43.5	40.3	37.2						125	
130			39.4	35.2	32.3	29.3	26					47.5	41.9	38.6	35.6	31.6					130	
135			38.7	34.1	30.9	27.8	25						41.1	37.2	34.1	30.5					135	
140			38	33.2	29.6	26.4	23.7	21					40.5	35.9	32.6	29.2	25.8				140	
145				32.7	28.4	25.1	22.5	19.8					39.9	34.6	31.3	27.9	24.7				145	
150				32.2	27.2	24	21.3	18.7	16.9				39.4	33.5	30.2	26.7	23.6	20.4			150	
155				31.7	26.3	22.9	20.1	17.7	16.2					33.1	29.1	25.5	22.6	19.6			155	
160				31.2	25.7	21.8	19.1	16.6	15.3	13.3				32.9	28	24.5	21.6	18.7	16.6		160	
165					25.3	20.8	18.1	15.5	14.4	12.6				32.7	27.1	23.6	20.6	17.8	15.8		165	
170					25	20	17.2	14.5	13.5	12				32.5	26.9	22.8	19.7	17	15.1	12.7	170	
175					24.6	19.7	16.4	13.7	12.6	11.3				32.3	26.7	22	18.9	16.1	14.4	12.3	175	
180					24.3	19.4	15.6	13	11.8	10.6					26.5	21.2	18.2	15.3	13.7	11.8	180	
185					24	19.1	14.8	12.4	10.9	10					26.4	20.6	17.5	14.6	13	11.3	185	
190					23.7	18.8	14.2	11.7	10.3	9.3					26.2	20.5	16.8	14	12.3	10.8	190	
195						18.5	14	11.1	9.8	8.7					26	20.4	16.2	13.4	11.7	10.4	195	
200						18.2	13.7	10.5	9.3	8.1						20.3	15.8	12.9	11.2	9.9	200	
205						18	13.5	10.1	8.9	7.7						20.2	15.7	12.4	10.8	9.5	205	
210							13.3	10	8.4	7.3							20.2	15.6	11.9	10.5	9.1	210
215							13.1	9.8	7.9	6.8						20.1	15.5	11.4	10.1	8.7	215	
220							12.9	9.7	7.5	6.4						20	15.4	11.2	9.7	8.4	220	
225							12.7	9.6	7.3	6							15.3	11	9.3	8	225	
230							12.5	9.4	7.2	5.6							15.2	11	8.9	7.6	230	
235							12.4	9.3	7.1	5.3							15.1	10.9	8.7	7.2	235	
240								9.2	6.9	5.1							15	10.9	8.6	6.9	240	
245								9	6.8	5								10.8	8.5	6.5	245	
250								8.9	6.7	4.9								10.8	8.5	6.2	250	
255								8.8	6.6	4.8								10.7	8.4	6	255	
260									6.5	4.7								10.7	8.3	6	260	
265									6.5	4.7								10.6	8.3	5.9	265	
270									6.4	4.6									8.2	5.9	270	
275									6.3	4.5									8.2	5.9	275	
280									6.2	4.4									8.1	5.8	280	
285										4.3									8.1	5.8	285	
290										4.2										5.8	290	
295										4.2										5.7	295	
300										4.1										5.7	300	
305																				5.7	305	
310																				5.6	310	

* adapter - pièce d'adaptateur

TAB 221160



Lifting capacities Forces de levage



TVN



85%

ft	53 ft + 46 ft + 13 ft*										87 ft + 46 ft + 13 ft*										ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	
95	52.4																				95
100	49.1																				100
105	46.5	45.3									54.9										105
110	44.8	42.4									51.8										110
115		40									49										115
120		37.8	37.4								46.7	45.1									120
125		35.8	35.2								42.6	40.3	39								125
130		35.1	33	31.4							38.4	37.6	34								130
135		35	31.2	30							36.8	35.8	34								135
140			29.7	28.1							35.5	34	32.5	30.8							140
145			28.3	26.4	25.6						35.4	32.5	30.8	29.3							145
150			27.8	24.9	24							31.1	29.3	27.9	25.5						150
155			27.7	23.8	22.5							30	27.9	25.5	24.5						155
160				22.7	21.2	18.9						29.2	26.5	24.5	20.4						160
165				21.8	20.1	17.5						25.6	23.6	20.4	19.6						165
170				21.4	18.9	16.2	14.4					24.6	22.7	19.6	18.8						170
175				21.3	17.8	15.1	13.4					23.8	21.9	18.8	15.1						175
180				21.3	17.1	14.1	12.3					23.3	21	18	14.3						180
185					16.7	13.3	11.3	9.7				23.3	20	17.2	13.6						185
190					16.7	12.5	10.4	8.9				23.3	19.1	16.3	13.6	10.7					190
195					16.7	11.7	9.7	8.2				18.8	15.5	12.9	10.2	8.5					195
200					16.7	11.2	9.1	7.5	7.1			18.8	14.6	12.1	10.2	8.5					200
205						10.9	8.5	6.9	6.4			18.8	13.8	11.4	9.7	8.1					205
210						10.9	7.9	6.3	5.8	5.2		18.8	12.9	10.8	9.1	7.6					210
215						10.9	7.6	5.8	5.2	4.7		18.8	12.7	10.2	8.5	7.6					215
220						10.9	7.5	5.3	4.6	4.2			12.7	9.6	7.9	7.2	6				220
225						10.9	7.5	4.8	4.2	3.7			12.7	9.1	7.4	6.7	5.6				225
230							7.5	4.3	3.7	3.3			12.7	9	7	6.2	5.2				230
235							7.5	4	3.3	2.8			12.7	9	6.5	5.8	4.9				235
240							7.5	4	2.8					9	6	5.4	4.5				240
245							7.5	4						9	5.6	4.9	4.1				245
250								4						9	5.2	4.5	3.7				250
255								4						9	5.1	4.1	3.3				255
260								4							5.1	3.7	2.9				260
265								4							5.1	3.3	2.6				265
270								4							5.1	2.9	2.2				270
275								4							5.1	2.8					275
280															5.1	2.8					280
285																2.8					285
290																2.8					290
295																2.8					295
300																2.8					300
305																2.8					305

* adapter · pièce d'adaptateur

TAB 221166

J

Lifting capacities Forces de levage



TVN



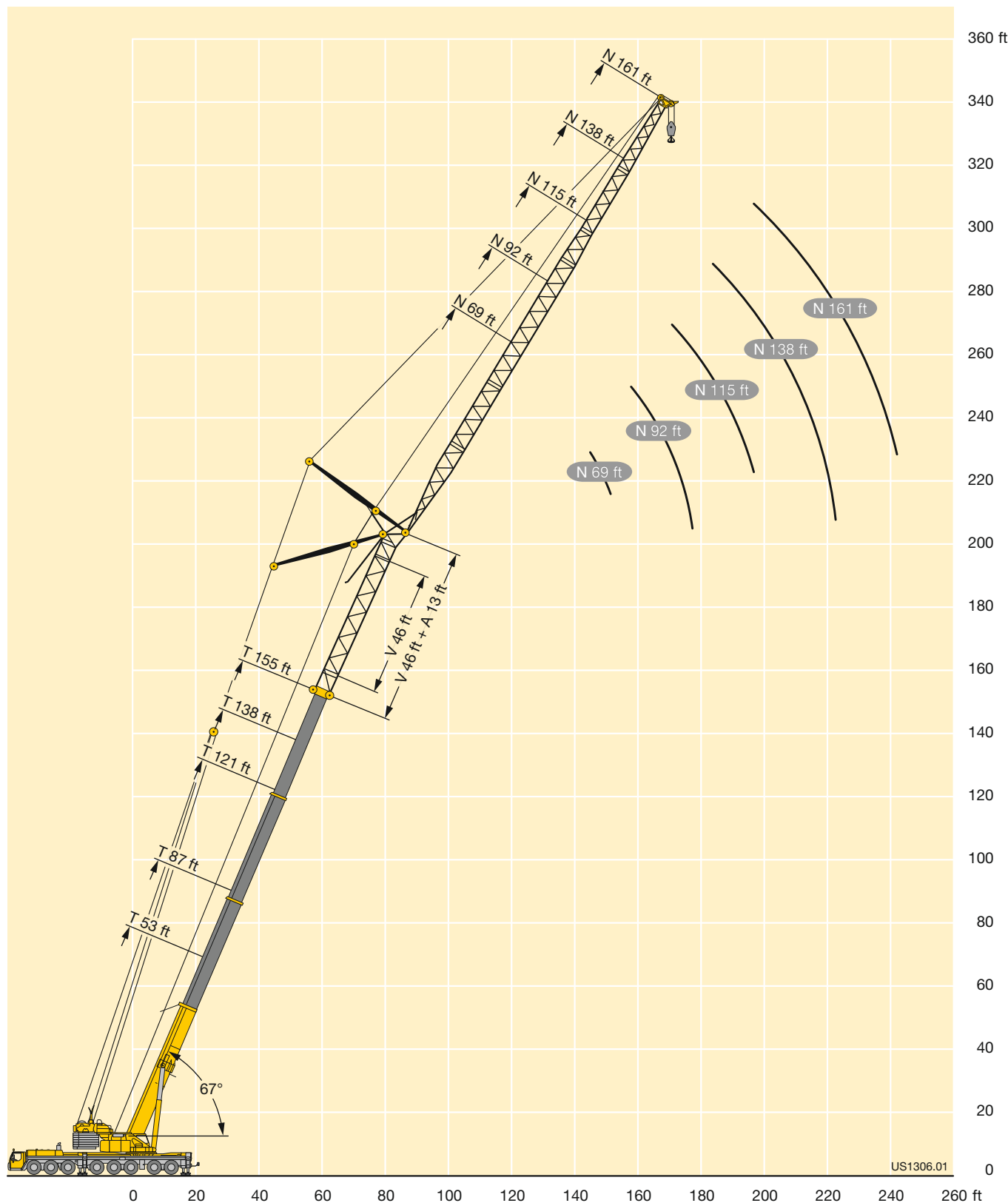
85%

 ft	121 ft + 46 ft + 13 ft*									138 ft + 46 ft + 13 ft*							155 ft + 46 ft + 13 ft*					 ft	
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	69 ft	92 ft	115 ft	138 ft	161 ft		
125	46.5																					125	
130	44.5									32.4												130	
135	42.6	39								32.4												135	
140		38.3								31.8	27.1							22.5				140	
145		36.5									26.9							22.4				145	
150		34.9	33.4								25.8							21.3				150	
155		33.4	32.2								24.6	22.3							16.4			155	
160		32	30.7	27.9							23.6	21.8							16			160	
165			29.3	27.7							22.6	20.8							15			165	
170			28.1	26.5							21.7	19.8	16.3						14.1	12.3		170	
175			26.9	25.4	22.8							18.9	16.3						13.2	11.7		175	
180			25.9	24.3	22.3							18.1	15.8	11.6						11	8.8	180	
185				23.2	21.3							17.2	15	11.6						10.4	8.7	185	
190				22.3	20.3	17.6						16.4	14.1	11.6						9.9	8.1	190	
195				21.4	19.3	16.7							13.3	11.1	7.7					9.5	7.7	5.5	195
200				20.6	18.4	15.8	12.9						12.7	10.5	7.7						7.3	5.3	200
205				19.9	17.5	14.9	12.6						12.1	10	7.5	4.9					6.9	4.9	205
210					16.8	14.1	12						11.6	9.4	7.1	4.9					6.5	4.5	210
215					16	13.3	11.4						11.2	9	6.6	4.5					6.1	4.1	215
220					15.3	12.6	10.8	8.7						8.6	6.2	4.1					5.8	3.8	220
225					14.7	12	10.2	8.5						8.2	5.7	3.8						3.4	225
230						11.5	9.6	8						7.8	5.3	3.4						3.1	230
235						11	9.1	7.5	6.6					7.5	5	3.1						2.8	235
240						10.6	8.6	7	6.3						4.7	2.8						2.6	240
245						10.2	8.2	6.5	5.8						4.4	2.5							245
250						9.8	7.8	6.1	5.4						4								250
255						9.6	7.4	5.6	5						3.8								255
260							7	5.2	4.5						3.6								260
265							6.7	4.9	4.2														265
270							6.4	4.6	3.8														270
275							6.2	4.2	3.4														275
280								3.9	3.1														280
285								3.6	2.8														285
290								3.4	2.5														290
295								3.2	2.2														295
300								3															300

* adapter · pièce d'adaptateur

TAB 221166

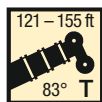
J



Lifting capacities Forces de levage



TY3N



ft	155 ft + 13 ft*											ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
55	176											55
60	174											60
65	163	155										65
70	155	148	135									70
75	147	141	132	116								75
80	142	134	127	115								80
85	138	127	122	112	99.5							85
90	136	122	117	108	97.5							90
95		118	112	105	95	80						95
100		115	107	102	92.5	79.5	62.5					100
105		112	103	98	90.5	78.5	62.5					105
110		109	101	94.5	88	77.5	62.5					110
115			98.5	91.5	86	76.5	62.5	49.3				115
120			96	88.5	84	75.5	62.5	49.3	40.1			120
125			93.5	86	81.5	74.5	62.5	49.3	40.4	31.5		125
130			89.5	84.5	79	73	62.5	49.3	40.9	31.8		130
135			85.5	83	77	71.5	62.5	48.9	41.5	32.1	23.8	135
140				81	75	70	62	48.1	41.9	32.5	24	140
145				77.5	73.5	68.5	61.5	47.1	42	32.7	24.2	145
150				74.5	72	67.5	60.5	46.2	42	32.5	24.5	150
155				71.5	70	66.5	59.3	45.3	42	32	24.9	155
160					67.5	65.5	58.4	44.4	41.7	31.4	25.1	160
165					65	64	57.7	43.5	41.1	30.8	25.2	165
170					62.5	61.5	57.1	42.7	40.5	30.2	25.2	170
175					60	59.2	56.5	42.1	39.9	29.7	25.2	175
180					57.9	57.1	55.4	41.5	39.2	29.1	25.2	180
185						55.1	53.9	40.9	38.7	28.6	25.1	185
190						53.2	52	40.4	38.2	28.1	24.7	190
195						51.4	50.2	39.9	37.7	27.6	24.3	195
200						49.7	48.5	39.3	37.3	27.1	24	200
205							46.9	38.8	36.9	26.7	23.6	205
210							45.4	38.3	36.5	26.3	23.3	210
215							43.9	37.9	36.1	25.9	22.9	215
220							42.6	37.4	35.7	25.5	22.7	220
225							40.5	37	35.3	25.2	22.4	225
230								36.5	34.9	24.9	22.1	230
235								36.2	34.6	24.5	21.9	235
240								36	34.2	24.2	21.6	240
245								35.2	33.8	23.9	21.4	245
250									33.1	23.6	21.1	250
255									32.1	23.3	20.9	255
260									31.2	22.9	20.7	260
265									30.2	22.6	20.4	265
270									28.9	22.3	20.2	270
275									25.9	22	20	275
280										21.9	19.7	280
285										21.7	19.5	285
290										21.6	19.3	290
295										21.5	19.1	295
300											19	300
305											18.9	305
310											18.9	310
315											18.8	315
320											17.1	320

K

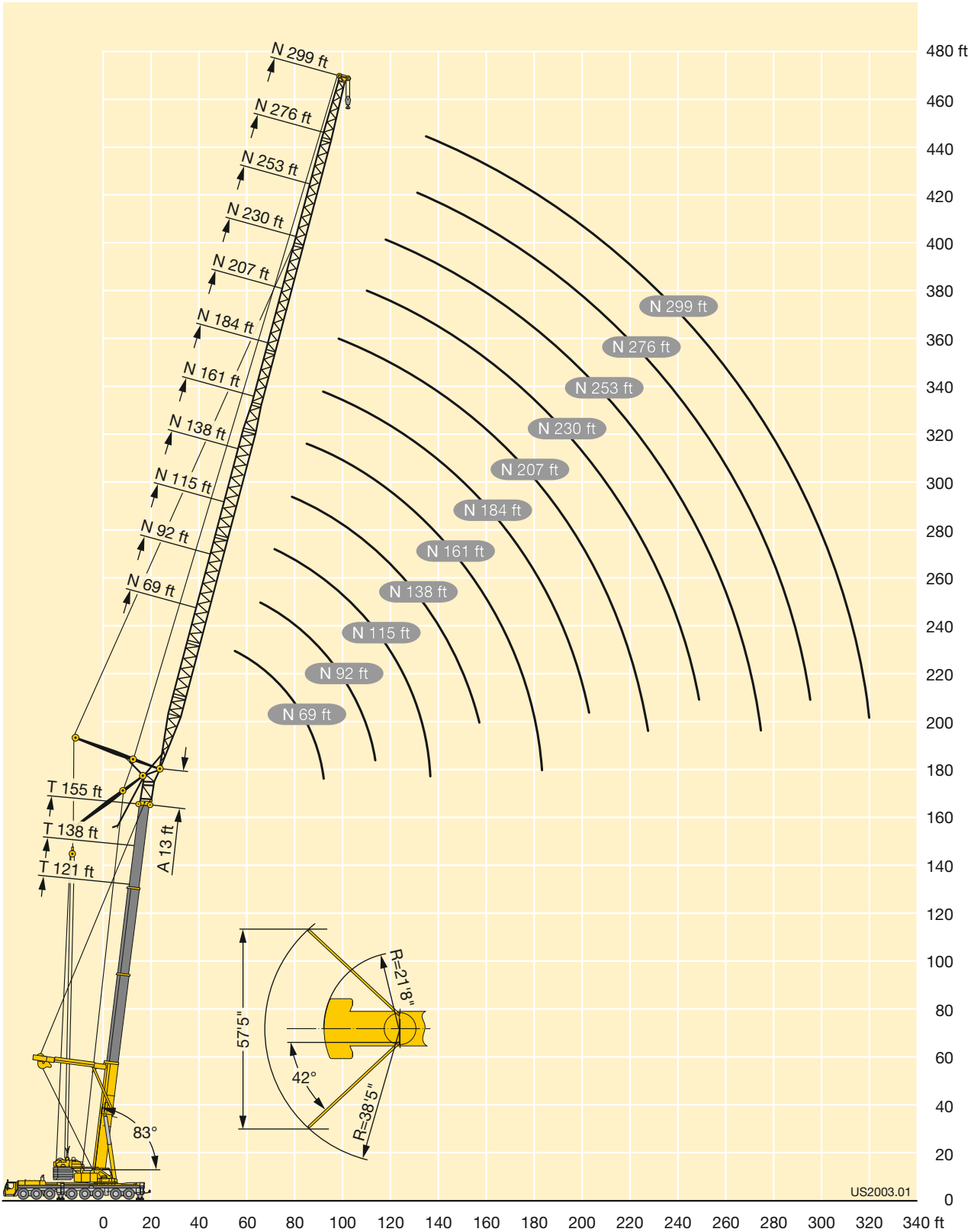
* adapter · pièce d'adaptateur

TAB 223282

Lifting heights
Hauteurs de levage



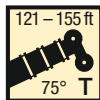
TY3N



Lifting capacities Forces de levage



TY3N



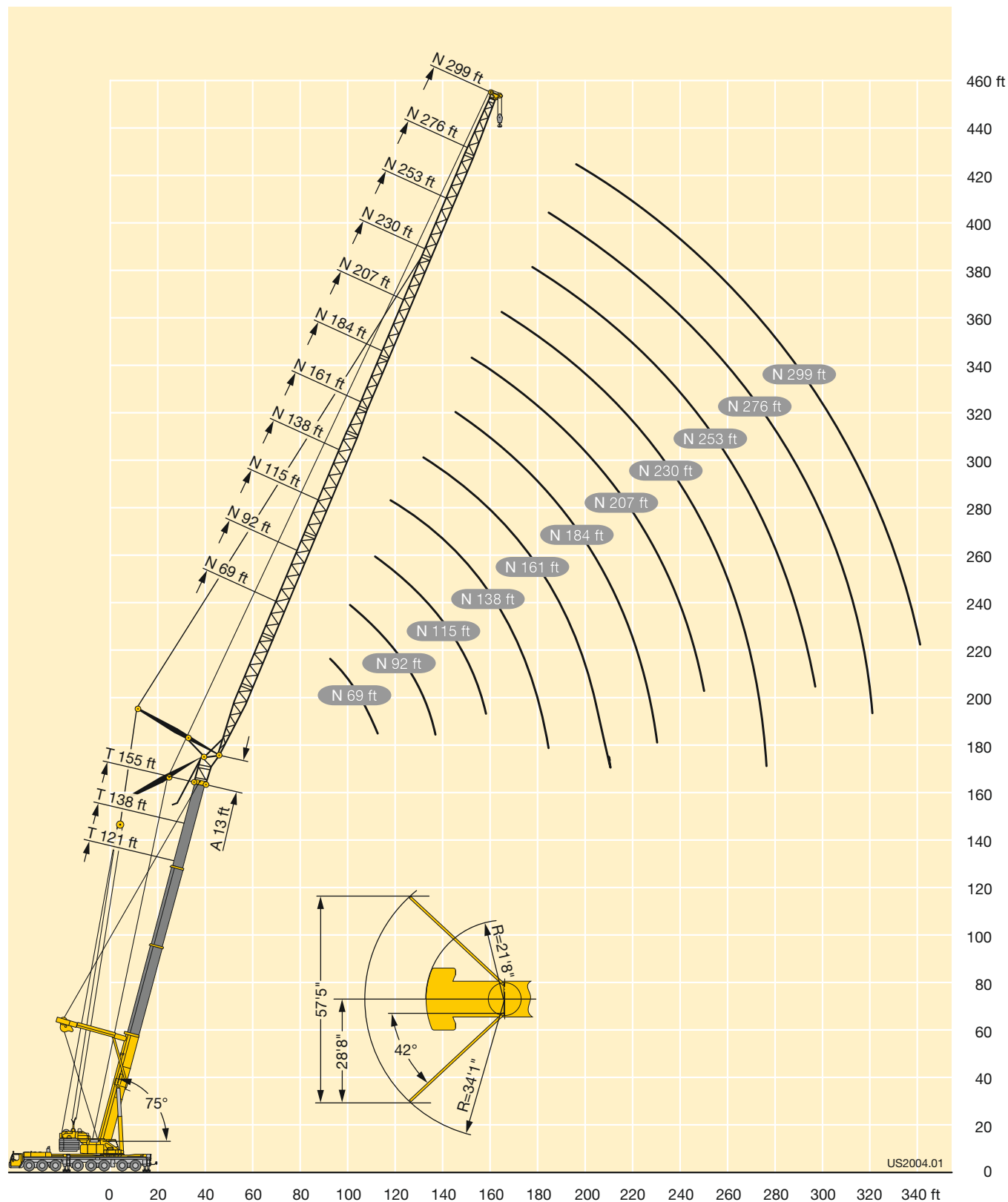
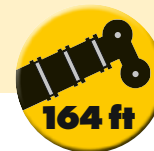
85%

	155 ft + 13 ft*											
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
90	112											90
95	109											95
100	104	101										100
105	100	96.5										105
110	97	92.5	89									110
115		89	86									115
120		86	82.5	80								120
125		83	80	77								125
130		79.5	77	74	71.5							130
135		76	74.5	71.5	69.5							135
140			71.5	69	67	62.5						140
145			68.5	67	64.5	62.5						145
150			65.5	64.5	62.5	60	56.8					150
155			63	62	59.9	58.1	55.7					155
160				59.5	57.5	56.1	54.2	47				160
165				57.2	55.3	54.1	52.5	46.8				165
170				55	53.2	52	50.5	46				170
175				53.1	51.2	50.1	48.6	45.2	40.5			175
180				51.2	49.4	48.2	46.7	44.5	40.4			180
185					47.6	46.4	45	43.7	40.2			185
190					45.9	44.8	43.3	42.5	40	29.9		190
195					44.3	43.2	41.8	41	39.1	29.4	25.2	195
200					42.8	41.7	40.3	39.5	37.9	28.9	25	200
205						40.3	38.9	38.1	36.5	28.4	24.7	205
210						38.9	37.5	36.7	35.1	28	24.3	210
215						37.6	36.2	35.4	33.8	27.6	24	215
220						36.4	35	34.2	32.6	27.1	23.7	220
225						35.2	33.9	33.1	31.5	26.7	23.4	225
230							32.7	31.9	30.3	26.3	23.1	230
235							31.7	30.9	29.3	26	22.8	235
240							30.7	29.9	28.3	25.6	22.5	240
245							29.7	28.9	27.3	25.3	22.1	245
250								27.9	26.4	24.9	21.6	250
255								27	25.5	24.1	20.9	255
260								26.2	24.6	23.3	20.2	260
265								25.3	23.8	22.5	19.6	265
270								24.5	23	21.7	18.9	270
275								23.8	22.2	21	18.3	275
280									21.5	20.2	17.7	280
285									20.8	19.5	17.1	285
290									20.1	18.8	16.5	290
295									19.5	18.2	15.9	295
300										17.6	15.3	300
305										17	14.7	305
310										16.4	14.2	310
315										15.8	13.8	315
320										15.3	13.5	320
325											13.3	325
330											13	330
340											12.4	340

K

* adapter · pièce d'adaptateur

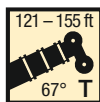
TAB 223285



Lifting capacities Forces de levage



TY3N



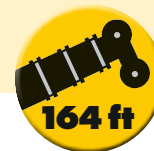
85%

ft	155 ft + 13 ft*											ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
120	78											120
125	74.5											125
130	71	68										130
135		66										135
140		63										140
145		60.5	58.6									145
150		58	56.2									150
155		55.7	53.9									155
160			51.8	50.4								160
165			49.8	48.4								165
170			47.9	46.6	44.3							170
175			46.1	44.8	42.8							175
180				43.2	41.2	38.7						180
185				41.6	39.6	38.3						185
190				40.1	38.1	36.9						190
195				38.7	36.7	35.5						195
200				37.3	35.4	34.2	31.7					200
205					34.2	32.9	31.3					205
210					33	31.7	30.1					210
215					31.9	30.6	29	27.9				215
220					30.8	29.5	28	27.1				220
225						28.5	27	26.1	23.6			225
230						27.5	26	25.2	23.5			230
235						26.6	25.1	24.2	22.6			235
240						25.7	24.2	23.4	21.7	19.8		240
245						24.8	23.4	22.5	20.9	19.5		245
250							22.5	21.7	20.1	18.6		250
255							21.8	20.9	19.3	17.9	17.1	255
260							21	20.2	18.5	17.1	16.5	260
265							20.3	19.4	17.8	16.4	15.8	265
270								18.7	17.1	15.8	15.1	270
275								18.1	16.5	15.1	14.4	275
280								17.4	15.8	14.5	13.8	280
285								16.8	15.2	13.9	13.2	285
290								16.2	14.6	13.3	12.6	290
295								15.6	14.1	12.7	12.1	295
300									13.5	12.2	11.7	300
305									13	11.8	11.3	305
310									12.5	11.4	10.9	310
315										11	10.5	315
320										10.7	10.1	320
325										10.3	9.7	325
330										10	9.3	330
340										9.3	8.6	340
350											8	350

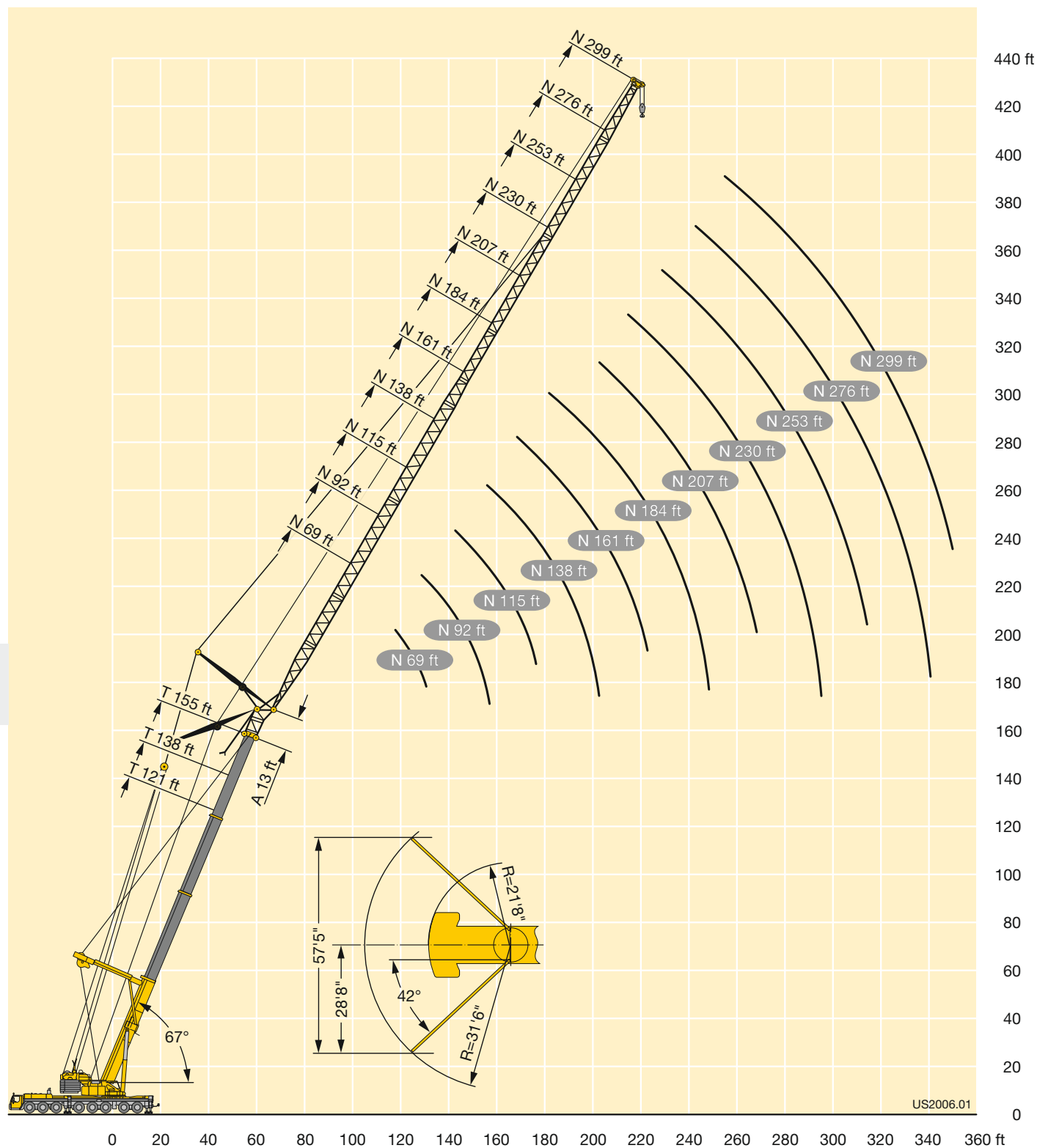
K

* adapter · pièce d'adaptateur

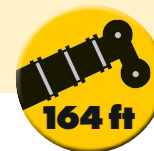
TAB 223288



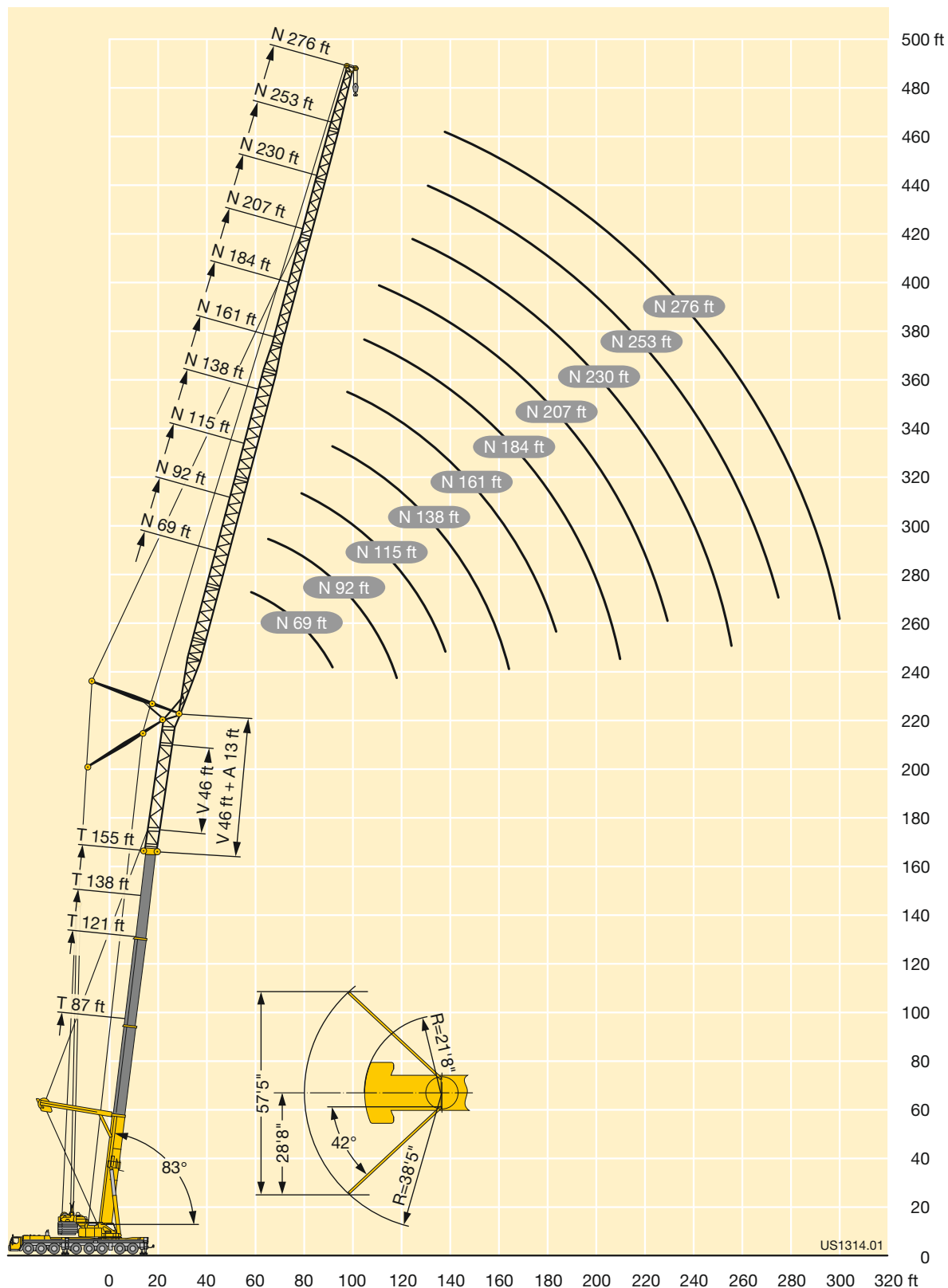
K



Lifting heights Hauteurs de levage

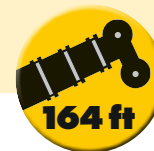


TVY3N

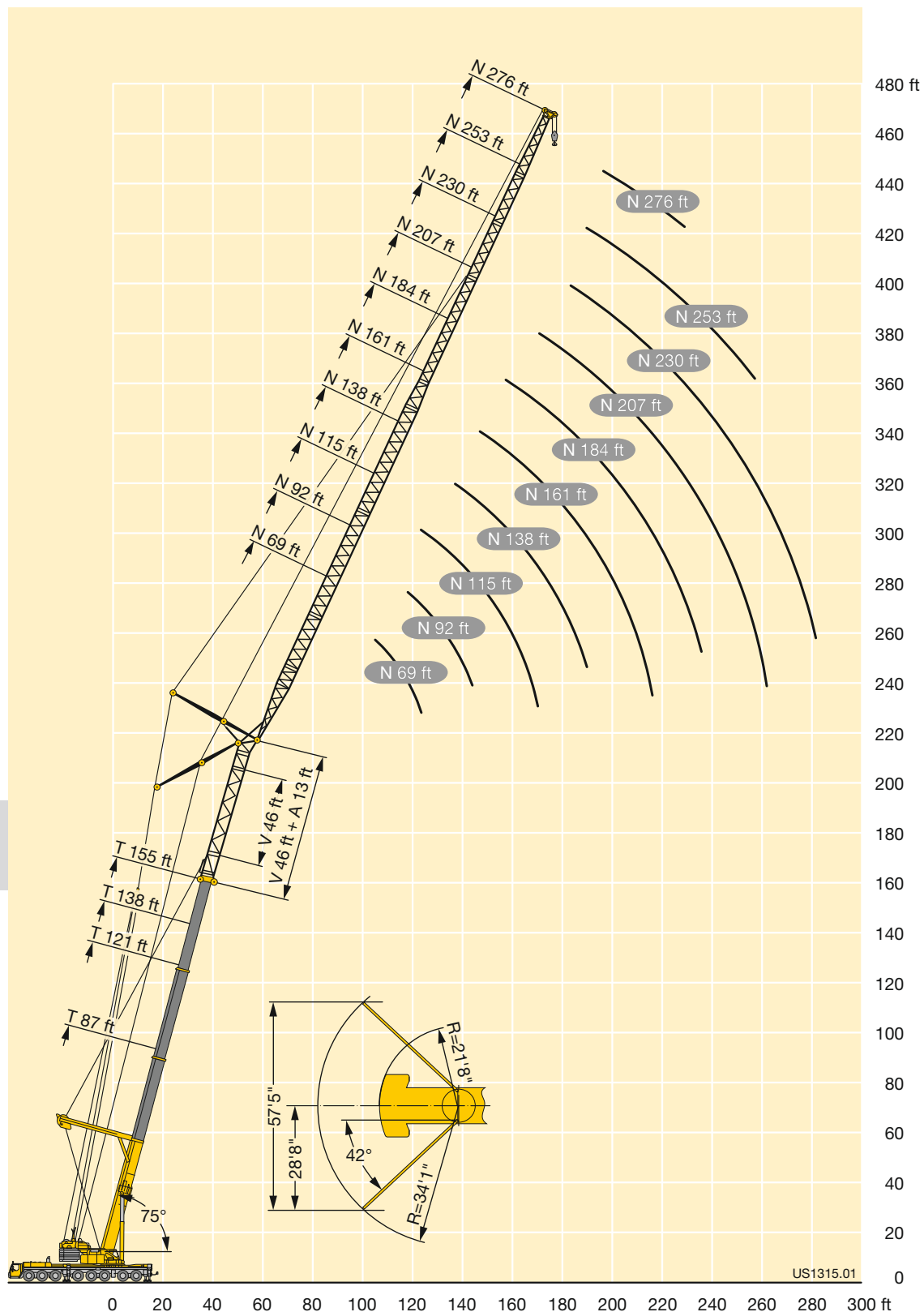


L

Lifting heights Hauteurs de levage



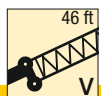
TVY3N



Lifting capacities Forces de levage



TVY3N



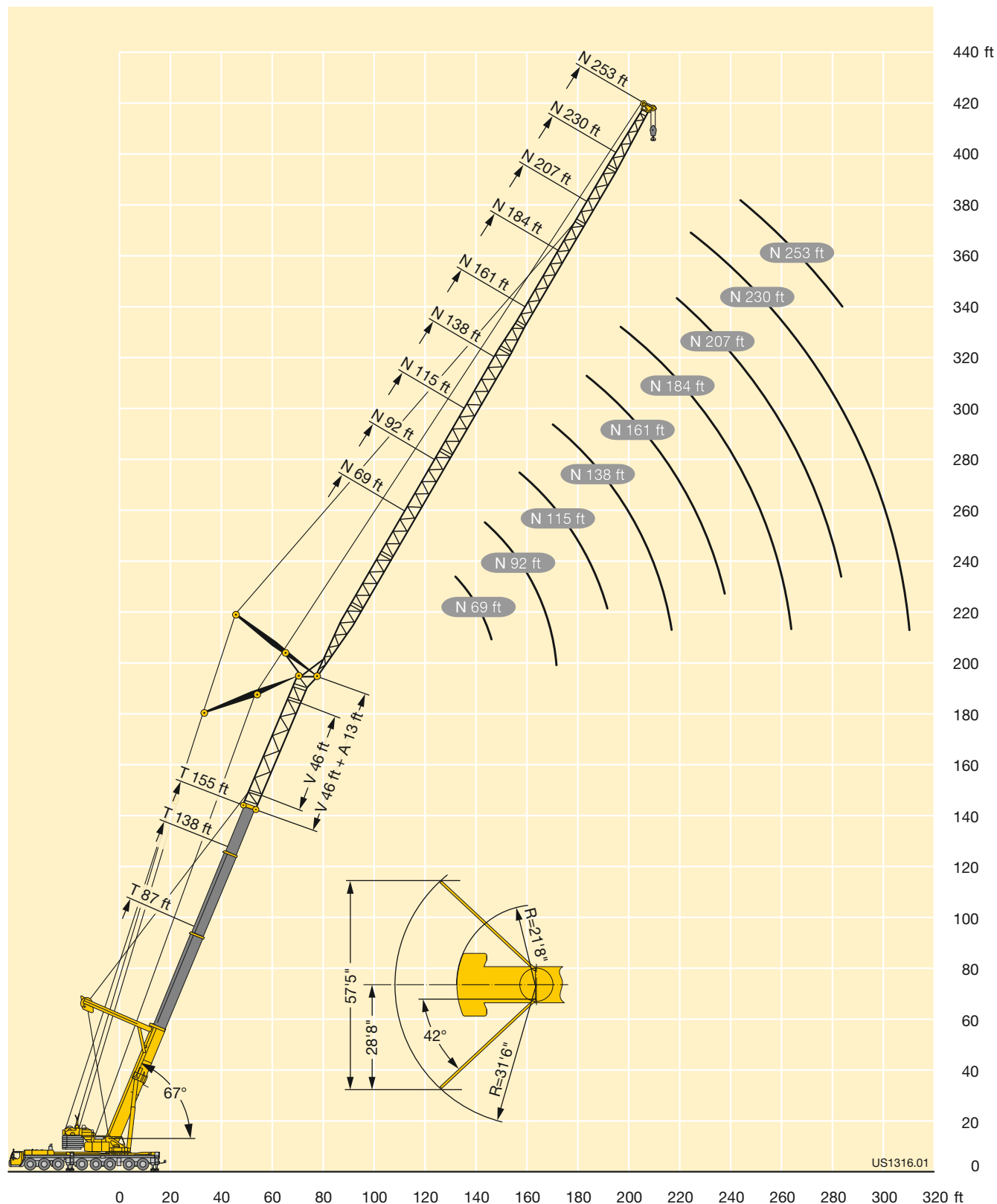
85%

ft	138 ft + 46 ft + 13 ft*									155 ft + 46 ft + 13 ft*							ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	
130	51.7																130
135	50.3																135
140	48.5	42.5								41.7							140
145		42.3								41.5							145
150		40.8								39.9							150
155		39.4	35.9								35.9						155
160		38.1	35.3								35.1						160
165		36.9	34.1								33.8						165
170		36	33	29.3							32.6	31.9					170
175			31.9	28.6							31.6	30.9					175
180			31	27.8	24							29.7	26.4				180
185			30.2	26.9	23.8							28.7	26.2				185
190			29.5	26.1	23.1							27.8	25.5				190
195				25.4	22.4	18.7						27.1	24.8	20.7			195
200				24.8	21.7	18.3							24.1	20.1			200
205				24.2	21	17.7							23.5	19.3	13.5		205
210				23.7	20.4	17.2							22.9	18.5	13.5		210
215				23.4	19.9	16.6	13.2						22.3	17.8	12.9		215
220					19.4	16	12.8						21.7	17	12.4	7.4	220
225					18.9	15.5	12.2	8.4						16.3	11.8	7.3	225
230					18.5	14.9	11.7	8.4						15.7	11.3	6.8	230
235					18.1	14.4	11.2	7.9						15	10.8	6.4	235
240						14	10.6	7.5	4.9					14.4	10.3	6.1	240
245						13.5	10.1	7.1	4.7						9.8	5.7	245
250						13.1	9.6	6.7	4.4						9.4	5.3	250
255						12.7	9.2	6.3	4.1						9	4.9	255
260						12.6	8.8	5.9	3.7						8.7	4.6	260
265							8.5	5.5	3.4						8.3	4.3	265
270							8.1	5.2	3.1							4	270
275							7.7	4.8	2.8							3.7	275
280							7.4	4.5	2.5							3.4	280
285								4.2								3.1	285
290								3.9									290
295								3.6									295
300								3.4									300
305								3.2									305

L

* adapter · pièce d'adaptateur

TAB 221184

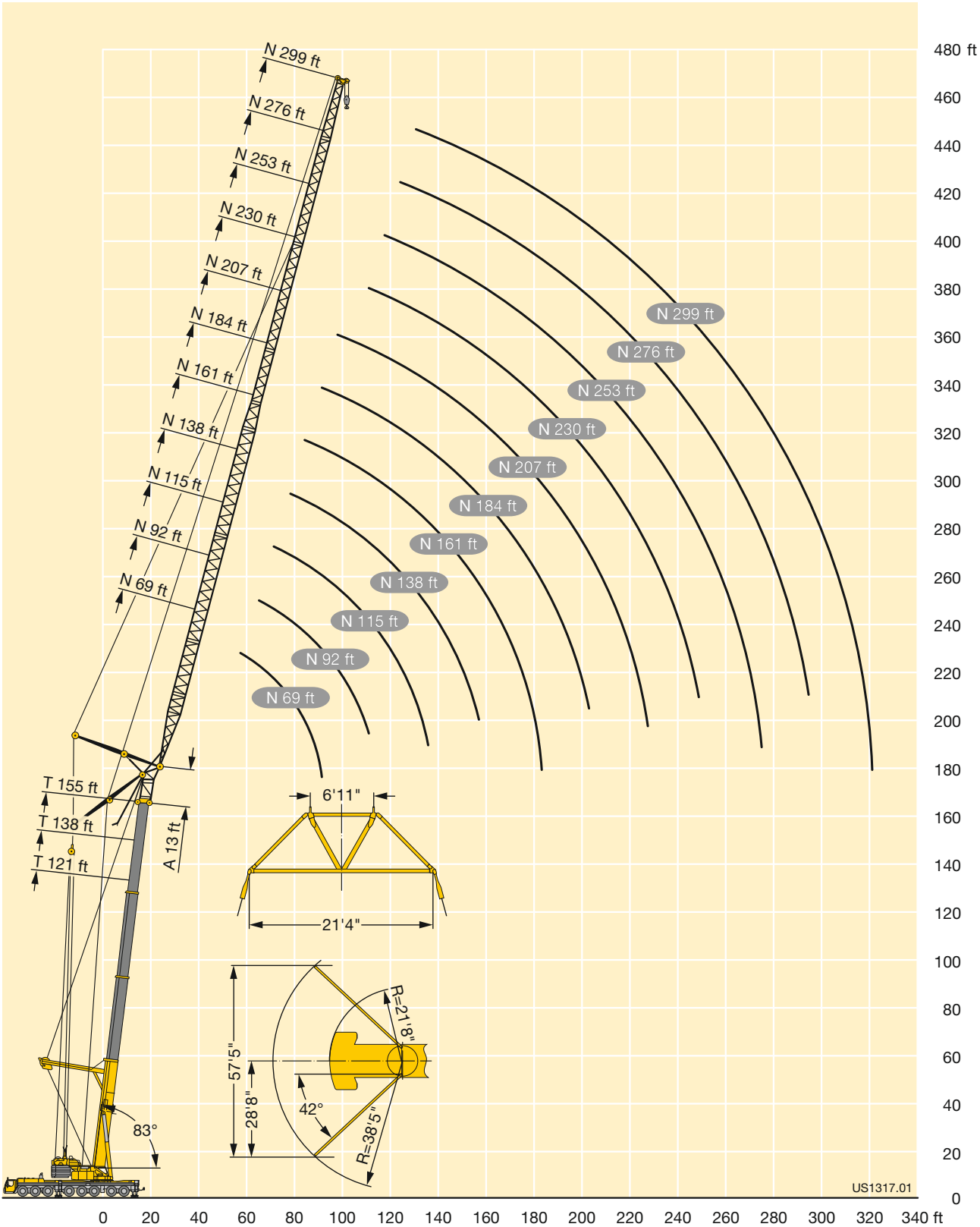


L

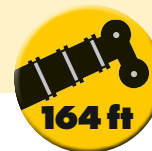
Lifting heights
Hauteurs de levage



TY3SN



Lifting capacities
Forces de levage



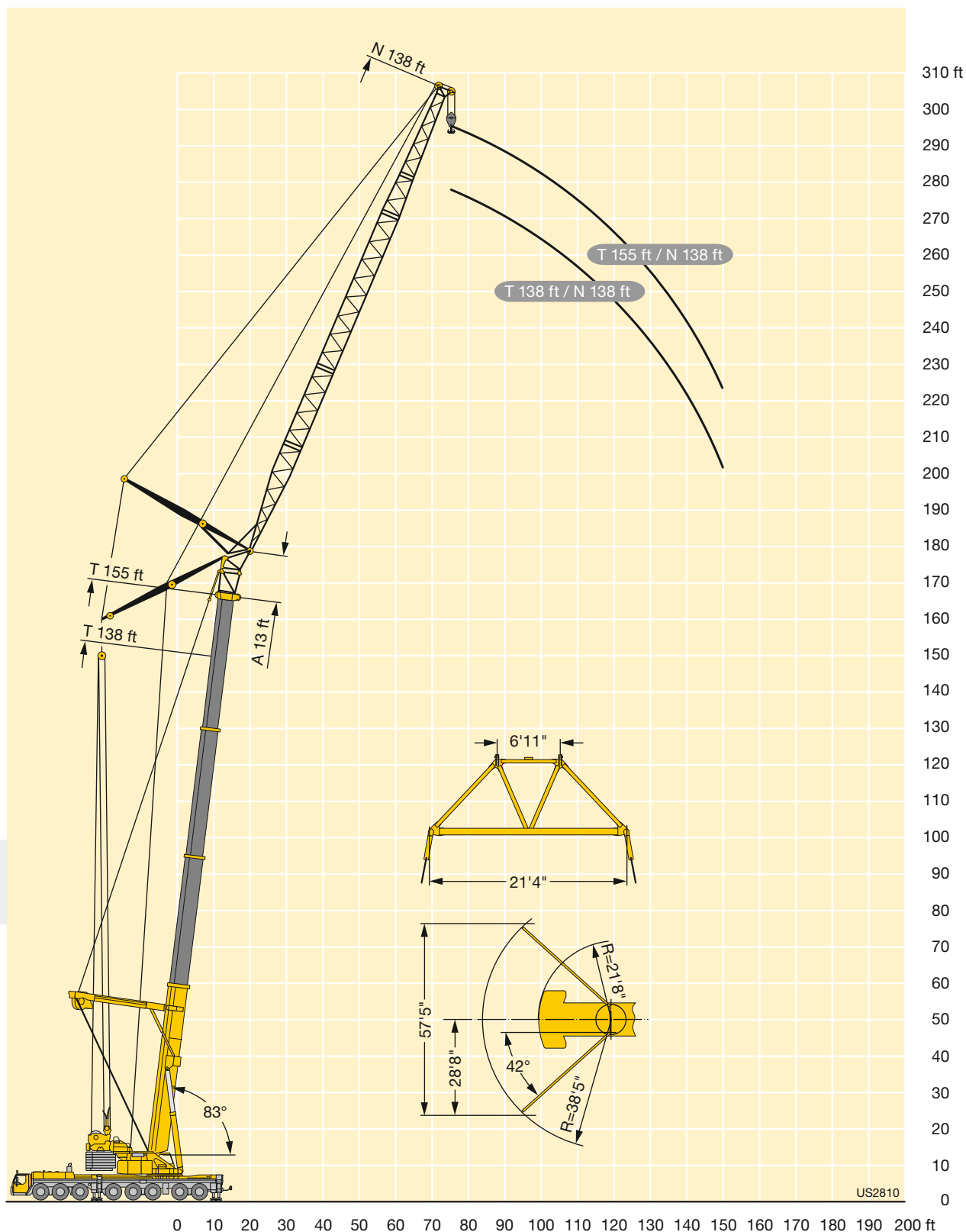
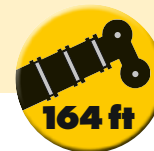
TY3SN



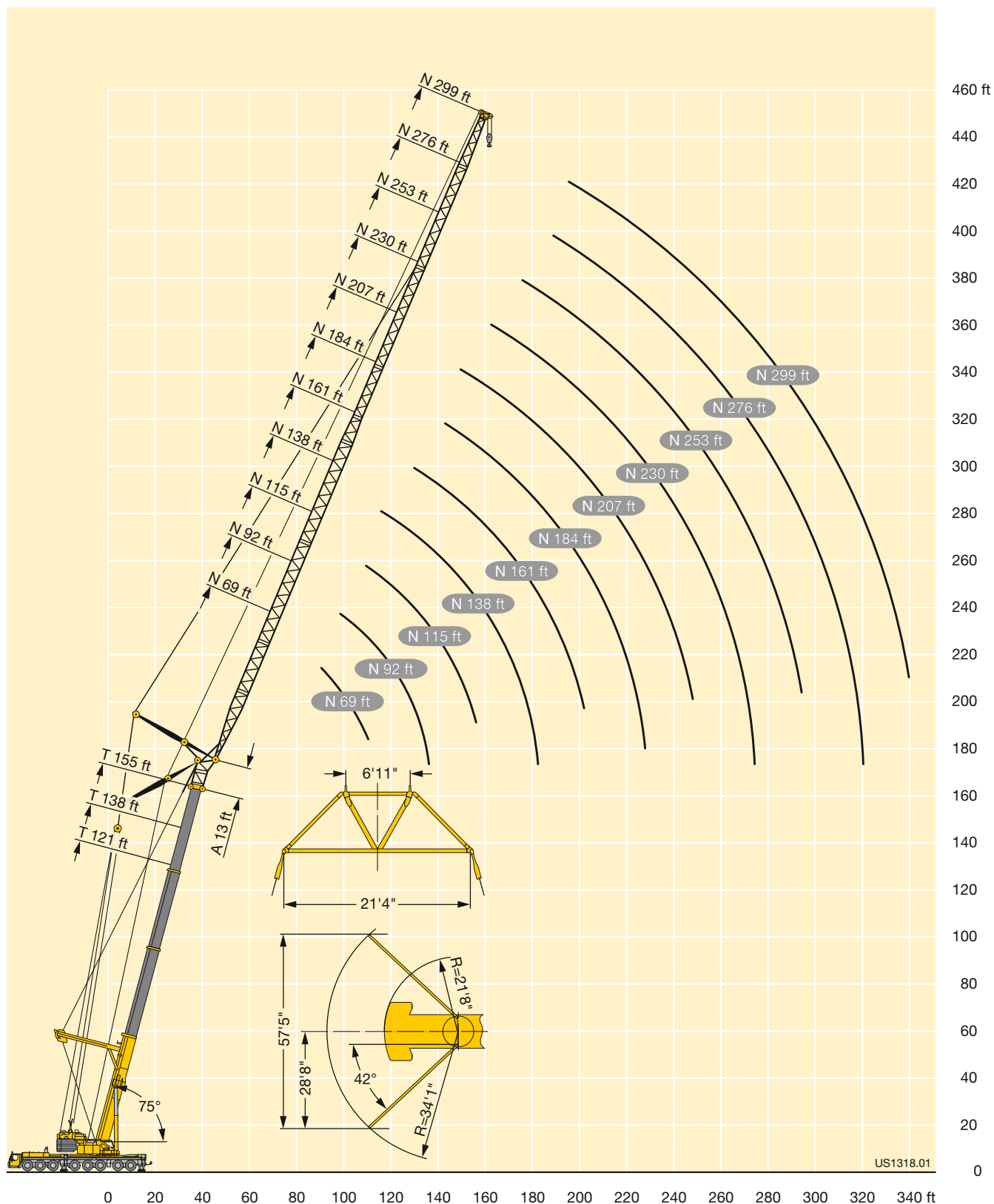
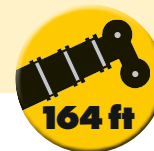
ft	138 ft + 13 ft*		155 ft + 13 ft*		ft
	138 ft		138 ft		
75	133		123		75
80	132		121		80
85	127		117		85
90	121		112		90
95	114		106		95
100	108		101		100
105	103		97		105
110	97.5		93		110
115	92.5		89.5		115
120	88.5		85.5		120
125	84.5		82.5		125
130	80.5		79		130
135	77		75.5		135
140	74		72.5		140
150	68		66.5		150

* adapter · pièce d'adaptateur

TAB 221696



M



Lifting capacities Forces de levage



TY3SN



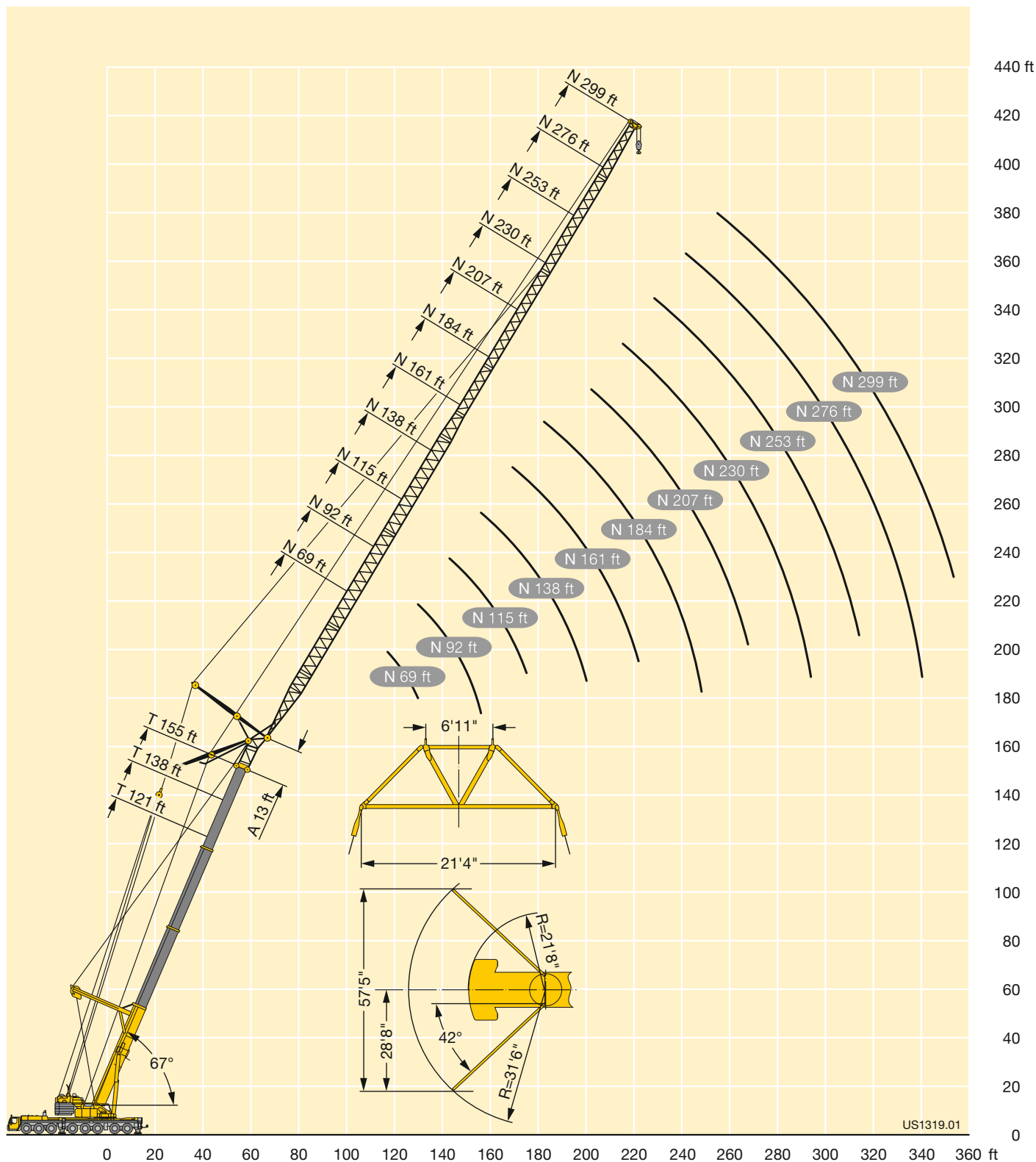
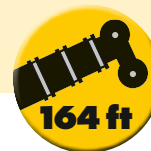
85%

ft	155 ft + 13 ft*											ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
120	77											120
125	73.5											125
130	70.5	67.5										130
135		65.5										135
140		62.5										140
145		59.9	58.1									145
150		57.5	55.7									150
155		55.2	53.5									155
160			51.3	49.5								160
165			49.3	47.5								165
170			47.5	45.7	43.9							170
175			45.7	43.9	42.4							175
180				42.3	40.8	38.3						180
185				40.7	39.2	37.9						185
190				39.3	37.7	36.5						190
195				37.9	36.4	35.1						195
200				36.6	35.1	33.8	31.4					200
205					33.8	32.6	31					205
210					32.6	31.4	29.8					210
215					31.5	30.3	28.7	27.6				215
220					30.5	29.2	27.7	26.9				220
225						28.2	26.7	25.8	23.3			225
230						27.2	25.7	24.9	23.2			230
235						26.3	24.8	24	22.3			235
240						25.4	23.9	23.1	21.4	19.6		240
245						24.6	23.1	22.2	20.6	19.2		245
250							22.3	21.4	19.8	18.4		250
255							21.5	20.7	19	17.6	16.8	255
260							20.8	19.9	18.3	16.9	16.2	260
265							20.1	19.2	17.6	16.2	15.5	265
270								18.5	16.9	15.5	14.8	270
275								17.8	16.2	14.9	14.2	275
280								17.2	15.6	14.2	13.6	280
285								16.6	15	13.6	12.9	285
290								16	14.4	13	12.4	290
295								15.4	13.8	12.5	11.9	295
300									13.3	12.1	11.5	300
305									12.8	11.7	11.1	305
310									12.3	11.3	10.7	310
315										10.9	10.3	315
320										10.5	9.9	320
325										10.1	9.6	325
330										9.8	9.2	330
340										9.1	8.5	340
350											7.9	350

* adapter · pièce d'adaptateur

TAB 221514

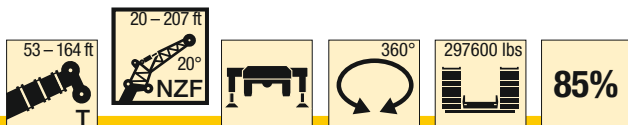
M



Lifting capacities Forces de levage



TNZF



ft	155 ft + 7 ft*										164 ft + 7 ft*		ft
	20 ft**	46 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft		20 ft**	207 ft	
38	142										120		38
40	141										119		40
45	133										110		45
50	125	84.5									103		50
55	118	83									96.5		55
60	111	80.5									90.5		60
65	105	78	62.5								85		65
70	99	76	60.5								80		70
75	93.5	74	58.9	44.3							75.5		75
80	88.5	72	57.2	44							71.5		80
85	84	70	55.6	42.7							67.5		85
90	79.5	67	54	41.4	32						63.5		90
95	75.5	64.5	52.5	40.3	31.4						59.9		95
100	71	61.5	50.9	39.2	30.4	24.2					56.4		100
105	67	58.6	49.4	38.1	29.5	24.2					53.1		105
110	63.5	56	48	37.2	28.7	23.5					50.4		110
115	60.5	53.5	46.5	36.1	27.9	22.8	17.4				47.9		115
120	57.5	51.2	45	35	27.1	22.1	17.2				45.6		120
125	54.7	48.9	43.4	34	26.4	21.5	16.6				43.4		125
130	51.9	47	41.6	33.1	25.7	20.8	16.1	12.4			41.4		130
135	49.4	45.2	39.9	32.2	25	20.2	15.6	12.1			39.4		135
140	47	43.5	38.3	31.3	24.3	19.7	15.1	11.7	8.9		37.5	8.7	140
145	45	41.8	36.8	30.5	23.6	19.1	14.6	11.4	8.9		35.7	8.7	145
150	43.2	40	35.4	29.7	23	18.7	14.1	11	8.6		33.9	8.4	150
155	41.4	38.2	34.1	28.9	22.3	18.2	13.7	10.7	8.2		32.2	8.1	155
160	39.6	36.5	32.9	28.1	21.7	17.8	13.3	10.3	8		30.7	7.8	160
165		34.9	31.7	27.4	21.1	17.4	12.9	10	7.7		29.1	7.5	165
170		33.4	30.6	26.8	20.5	17	12.6	9.7	7.4		27.6	7.3	170
175		32.1	29.5	26.1	20	16.6	12.3	9.4	7.1			7.1	175
180		30.8	28.4	25.3	19.5	16.2	12	9.1	6.9			6.8	180
185			27.3	24.4	19	15.7	11.8	8.9	6.6			6.5	185
190			26.3	23.6	18.5	15.3	11.5	8.7	6.4			6.3	190
195			25.3	22.7	18.1	14.8	11.2	8.5	6.2			6.1	195
200			24.2	21.9	17.8	14.4	10.9	8.2	5.9			5.9	200
205			23.3	21.1	17.4	14	10.6	8	5.7			5.6	205
210				20.4	17	13.7	10.3	7.8	5.5			5.4	210
215				19.8	16.7	13.4	10	7.6	5.2			5.2	215
220				19	16.3	13.1	9.7	7.3	5			4.9	220
225				18.2	16	12.8	9.4	7.1	4.7			4.6	225
230					15.6	12.6	9.2	6.8	4.5			4.2	230
235					15.1	12.3	9	6.6	4.3			3.8	235
240					14.6	12	8.8	6.3	4.1				240
245					14.1	11.8	8.6	6.1	3.9				245
250					13.7	11.6	8.4	5.9	3.7				250
255					13	11.4	8.2	5.7	3.5				255
260						11.3	8	5.6					260
265						11	7.8	5.4					265
270						10.7	7.7	5.2					270
275						10.4	7.5	5					275
280							7.5	4.9					280
285							7.4	4.7					285
290							7.4	4.5					290
295							7.3	4.4					295
300							7.1	4.3					300
305								4.3					305
310								4.3					310
315								4.3					315
320								4.2					320

* adapter · pièce d'adaptateur

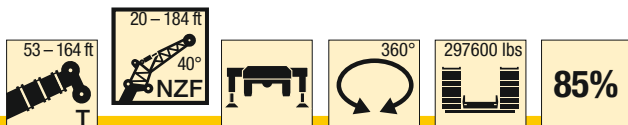
** optional · en option

TAB 221429

Lifting capacities Forces de levage



TNZF

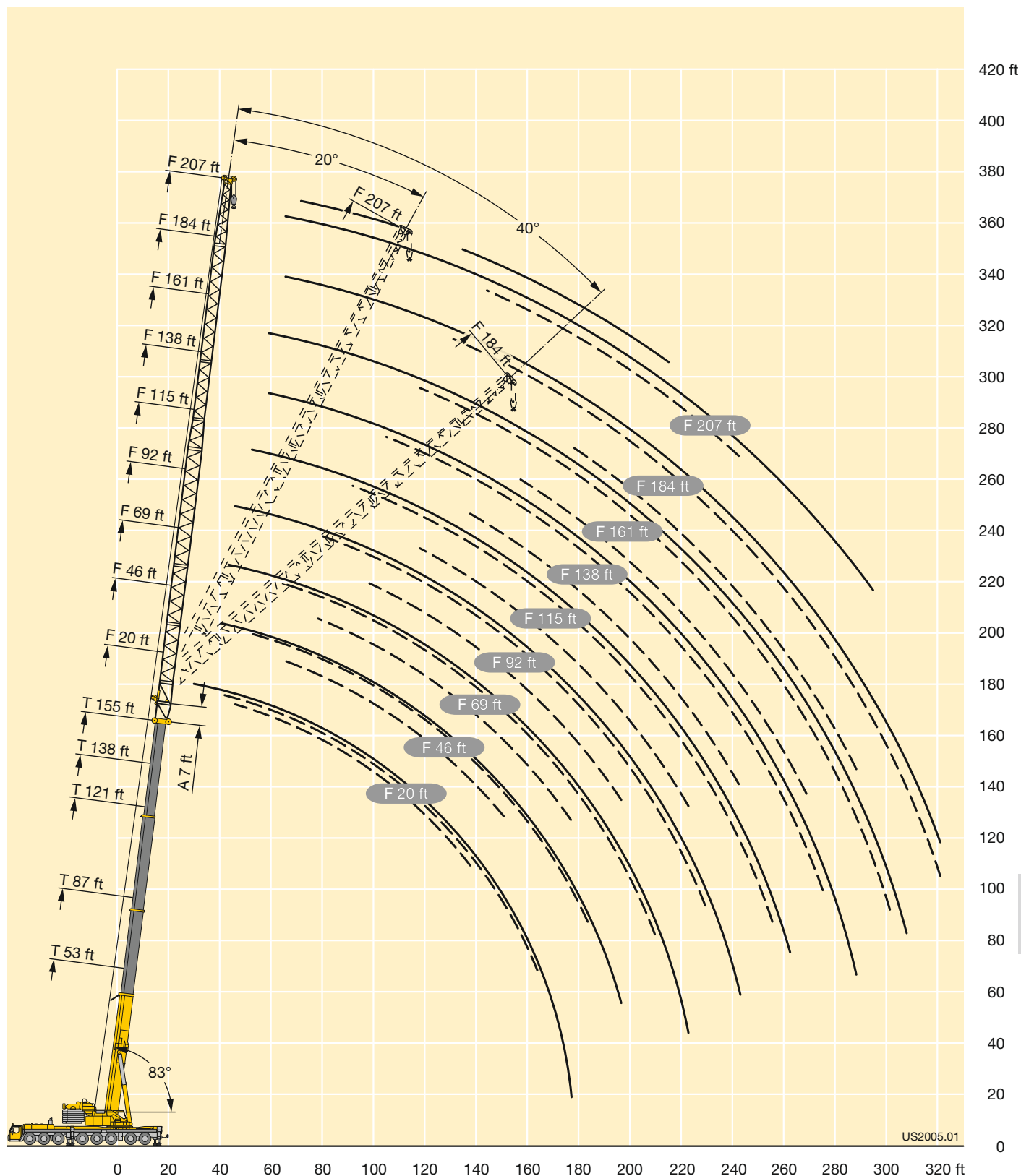
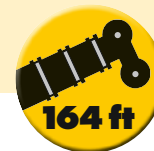


ft	155 ft + 7 ft*								164 ft + 7 ft*		ft
	20 ft**	46 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	20 ft**	184 ft	
45	86								86.5		45
50	84								84.5		50
55	82								82		55
60	79.5								80		60
65	78	62.5							78		65
70	76	61.5							76.5		70
75	74.5	60.5	40.1						74		75
80	73	59.6	39.9						70.5		80
85	71.5	58.8	39.2						66.5		85
90	70	58.1	38.5						62.5		90
95	69	57.4	37.8	27.2					59.2		95
100	68	56.7	37.2	27					56		100
105	67	56	36.6	26.5					53.2		105
110	64	54.1	36.1	26					50.6		110
115	61	52.1	35.6	25.5	18.9				48.1		115
120	57.8	50	35.2	25.1	18.7				45.7		120
125	55.1	48.1	34.8	24.7	18.3				43.5		125
130	52.5	46.3	34.4	24.3	18				41.6		130
135	50.1	44.6	34.1	23.9	17.6	13.2			39.8		135
140		42.9	33.8	23.6	17.3	13.1			38		140
145		41.3	33.5	23.3	16.9	12.8					145
150		40	33.3	23	16.6	12.6					150
155			33.1	22.7	16.4	12.3	8.9				155
160			32.6	22.5	16.2	12	8.8				160
165			31.6	22.3	15.9	11.8	8.6				165
170			30.6	22.1	15.7	11.6	8.4				170
175			29.7	22	15.5	11.5	8.3	5.8		5.7	175
180				21.9	15.3	11.3	8.1	5.7		5.7	180
185				21.8	15.2	11.2	7.9	5.5		5.5	185
190				21.7	15	11	7.8	5.4		5.3	190
195				21.7	14.9	10.9	7.6	5.2		5.2	195
200					14.8	10.8	7.5	5.1		5.1	200
205					14.8	10.6	7.4	5		5	205
210					14.7	10.5	7.3	4.8		4.8	210
215					14.6	10.5	7.2	4.7		4.7	215
220					14.6	10.4	7.1	4.6		4.6	220
225						10.4	7	4.5		4.5	225
230						10.3	6.9	4.4		4.4	230
235						10.3	6.8	4.3		4.3	235
240						10.3	6.8	4.2		4.2	240
245							6.7	4.1		4.1	245
250							6.7	4		4	250
255							6.6	4		3.9	255
260							6.6	3.9		3.8	260
265							6.6	3.9		3.5	265
270								3.9			270
275								3.8			275
280								3.8			280
285								3.8			285

* adapter · pièce d'adaptateur
** optional · en option

TAB 221430

N



Lifting capacities Forces de levage



TY3NZF

     										
155 ft + 7 ft*										
ft	20 ft**	46 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	ft
28	230									28
30	230									30
32	229	163								32
34	228	161								34
36	228	157								36
38	227	154	124							38
40	225	150	124							40
45	215	142	117	88	70					45
50	201	136	112	84.5	67.5	53.8				50
55	187	129	106	80.5	64	52.5	40.5			55
60	174	123	102	77	61	50	40.2			60
65	162	118	97.5	73.5	58.4	47.8	38.3	31	26.3	65
70	152	113	93.5	70.5	56	45.8	36.7	29.8	25.3	70
75	143	108	89.5	67.5	53.7	44	35.2	28.5	24.1	75
80	134	104	86	65	51.6	42.3	33.8	27.3	23.1	80
85	126	100	83	62.5	49.5	40.7	32.4	26.2	22.1	85
90	119	96	80	60	47.7	39.2	31.2	25.2	21.3	90
95	111	92.5	77	57.9	45.9	37.7	30	24.2	20.4	95
100	103	89.5	74.5	55.9	44.2	36.3	28.9	23.2	19.6	100
105	96	86	72	54	42.6	35	27.8	22.3	18.9	105
110	89.5	83	69.5	52.3	41.2	33.8	26.8	21.5	18.2	110
115	83.5	80	67	50.6	39.9	32.7	25.9	20.7	17.5	115
120	78	77	65	49	38.6	31.6	24.9	19.9	16.8	120
125	73	72.5	62.5	47.3	37.5	30.6	24	19.1	16.1	125
130	68.5	69.5	60.5	45.7	36.3	29.6	23.2	18.4	15.5	130
135	64	66	58.6	44.2	35.2	28.8	22.5	17.7	14.9	135
140	60	62.5	56.8	42.7	34	27.9	21.8	17.1	14.3	140
145	56.4	58.9	55.2	41.2	32.9	27.1	21.1	16.5	13.8	145
150	53	55.5	53.8	39.8	31.7	26.3	20.4	15.9	13.2	150
155	49.8	52.3	52	38.6	30.7	25.4	19.8	15.4	12.8	155
160	46.8	49.3	50.1	37.5	29.6	24.5	19.2	14.9	12.3	160
165	43.5	46.5	48	36.5	28.6	23.7	18.6	14.4	11.9	165
170	37.9	43.8	45.4	35.6	27.7	22.9	18	13.9	11.4	170
175	26.3	41.3	43	34.8	26.9	22.1	17.3	13.4	11	175
180		39	40.6	33.9	26.2	21.3	16.7	13	10.6	180
185		36.7	38.3	33.1	25.5	20.6	16	12.5	10.3	185
190		34.6	36.2	32.3	24.9	20	15.4	12.1	9.9	190
195		29.3	34.2	31.6	24.3	19.4	14.7	11.7	9.5	195
200			32.4	30.8	23.6	18.9	14.2	11.2	9.1	200
205			30.6	30.1	23	18.4	13.6	10.7	8.7	205
210			28.8	29.3	22.4	17.9	13.2	10.2	8.3	210
215			25.1	28.2	21.8	17.4	12.9	9.7	8	215
220				26.8	21.2	16.9	12.5	9.4	7.6	220
225				25.3	20.6	16.4	12.1	9	7.2	225
230				23.8	20.1	15.9	11.8	8.7	6.9	230
235				21.1	19.6	15.4	11.4	8.4	6.6	235
240				17.2	19.2	15	11.1	8.2	6.3	240
245					18.9	14.5	10.7	7.9	6	245
250					18.5	14.1	10.4	7.6	5.7	250
255					17.6	13.7	10.1	7.4	5.5	255
260					14.7	13.4	9.8	7.1	5.2	260
265						13.2	9.5	6.8	4.9	265
270						13	9.2	6.6	4.7	270
275						12.7	8.9	6.3	4.4	275
280						11.6	8.7	6.1	4.2	280
285						9.5	8.6	5.9	4	285
290							8.4	5.7	3.8	290
295							8.3	5.4	3.6	295
300							8.1	5.3	3.4	300
305							7.2	5.2	3.2	305
310								5.1	3	310
315								4.9	2.8	315
320								4.8	2.7	320

* adapter · pièce d'adaptateur

** optional · en option

TAB 221564

Lifting capacities Forces de levage



TY3NZF



ft	155 ft + 7 ft*									ft
	20 ft**	46 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	
38	159									38
40	158									40
45	150									45
50	143	87								50
55	135	85.5								55
60	129	83								60
65	122	80.5	65							65
70	117	78	63	47.7						70
75	112	76	61	46.8						75
80	107	74	59.3	45.3						80
85	103	72	57.6	43.9	34.7					85
90	99	70	56	42.5	33.6					90
95	95.5	68.5	54.5	41.3	32.6	26.2				95
100	92	67	53	40.1	31.5	25.9				100
105	89	65.5	51.7	39	30.6	25				105
110	86	64.5	50.4	38	29.7	24.2				110
115	83	63	49.3	37	28.8	23.5	17.9			115
120	79.5	62	48.2	36	28	22.7	17.6			120
125	74.5	61	47.2	35.1	27.2	22	17			125
130	69.5	59.8	46.3	34.3	26.5	21.4	16.4	12.5		130
135	65	58.8	45.3	33.6	25.8	20.7	15.8	12.2		135
140	61	58	44.4	32.9	25.1	20.2	15.2	11.7	9.4	140
145	57.3	57.4	43.5	32.1	24.5	19.6	14.6	11.3	9.4	145
150	53.8	56.4	42.7	31.4	23.9	19	14.1	10.8	9	150
155	50.5	54.1	42	30.7	23.3	18.4	13.6	10.4	8.6	155
160	47.4	51.3	41.3	30.1	22.8	17.9	13.2	10	8.3	160
165		48.3	40.8	29.4	22.3	17.4	12.8	9.6	7.9	165
170		45.5	40.3	28.8	21.8	17	12.4	9.3	7.6	170
175		42.8	39.9	28.2	21.3	16.6	12	9	7.2	175
180		40.3	39.4	27.7	20.8	16.2	11.7	8.7	6.9	180
185			38.9	27.4	20.3	15.8	11.4	8.4	6.7	185
190			38.3	27	19.9	15.4	11.1	8.1	6.3	190
195			36.2	26.7	19.5	15	10.8	7.8	6.1	195
200			34.1	26.4	19.2	14.7	10.5	7.6	5.8	200
205			32.1	26	18.9	14.3	10.3	7.4	5.6	205
210				25.7	18.6	14	10	7.1	5.3	210
215				25.4	18.4	13.7	9.8	6.9	5.1	215
220				25.2	18.1	13.4	9.5	6.7	4.9	220
225				25	17.9	13.2	9.3	6.5	4.7	225
230					17.6	13	9.1	6.3	4.5	230
235					17.4	12.8	8.9	6.1	4.3	235
240					17.2	12.7	8.7	5.9	4.1	240
245					17.1	12.5	8.5	5.7	3.9	245
250					17.1	12.3	8.4	5.6	3.7	250
255					17.1	12.1	8.3	5.4	3.6	255
260						12	8.1	5.2	3.4	260
265						11.8	8	5.1		265
270						11.7	7.9	5		270
275						11.7	7.8	4.9		275
280							7.6	4.8		280
285							7.5	4.7		285
290							7.4	4.6		290
295							7.4	4.5		295
300							7.4	4.4		300
305								4.3		305
310								4.2		310
315								4.2		315
320								4.2		320

* adapter · pièce d'adaptateur

TAB 221566

** optional · en option

O

Lifting capacities Forces de levage



TY3NZF

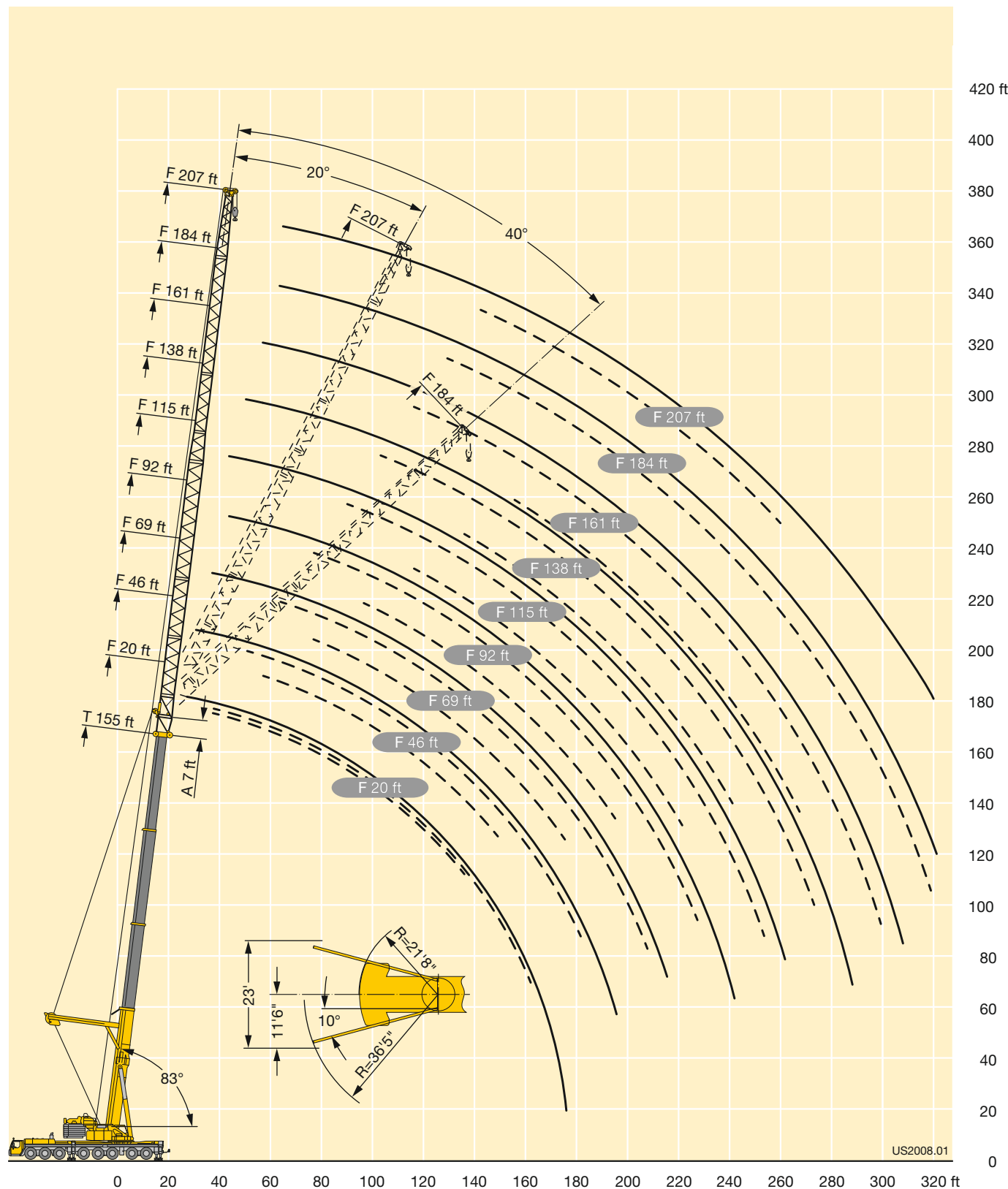


ft	155 ft + 7 ft*							ft
	20 ft**	46 ft	69 ft	92 ft	115 ft	138 ft	161 ft	
38	95							38
40	95							40
45	91.5							45
50	89							50
55	86.5							55
60	84	64						60
65	82	62.5						65
70	80	61.5						70
75	78	60.5	39.6					75
80	76	59.7	39.4					80
85	74.5	58.8	38.6					85
90	73	58	37.9					90
95	71.5	57.3	37.1	26.2				95
100	70.5	56.5	36.5	26				100
105	69	55.9	35.8	25.5				105
110	68	55.4	35.3	24.9				110
115	67	54.9	34.7	24.4	18			115
120	66	54.5	34.2	24	17.8			120
125	65.5	54.1	33.8	23.5	17.4			125
130	65	53.7	33.4	23.1	17			130
135	64	53.3	33.1	22.7	16.6	12.6		135
140		53	32.8	22.4	16.2	12.5		140
145		52.8	32.5	22	15.9	12.2		145
150		52.8	32.2	21.8	15.6	11.9		150
155			32	21.5	15.3	11.6	8	155
160			31.7	21.3	15	11.4	7.9	160
165			31.6	21.1	14.7	11.1	7.7	165
170			31.5	20.9	14.5	10.9	7.5	170
175			31.5	20.7	14.4	10.7	7.3	175
180				20.5	14.2	10.5	7.1	180
185				20.4	14	10.4	7	185
190				20.3	13.9	10.2	6.8	190
195				20.3	13.7	10.1	6.6	195
200					13.6	10	6.5	200
205					13.5	9.9	6.3	205
210					13.4	9.8	6.2	210
215					13.4	9.7	6.1	215
220					13.4	9.6	6	220
225						9.5	6	225
230						9.4	5.9	230
235						9.4	5.8	235
240						9.4	5.7	240
245							5.6	245
250							5.6	250
255							5.5	255
260							5.5	260
265							5.5	265

* adapter · pièce d'adaptateur

** optional · en option

TAB 221568



Lifting capacities Forces de levage



TY3ENZF

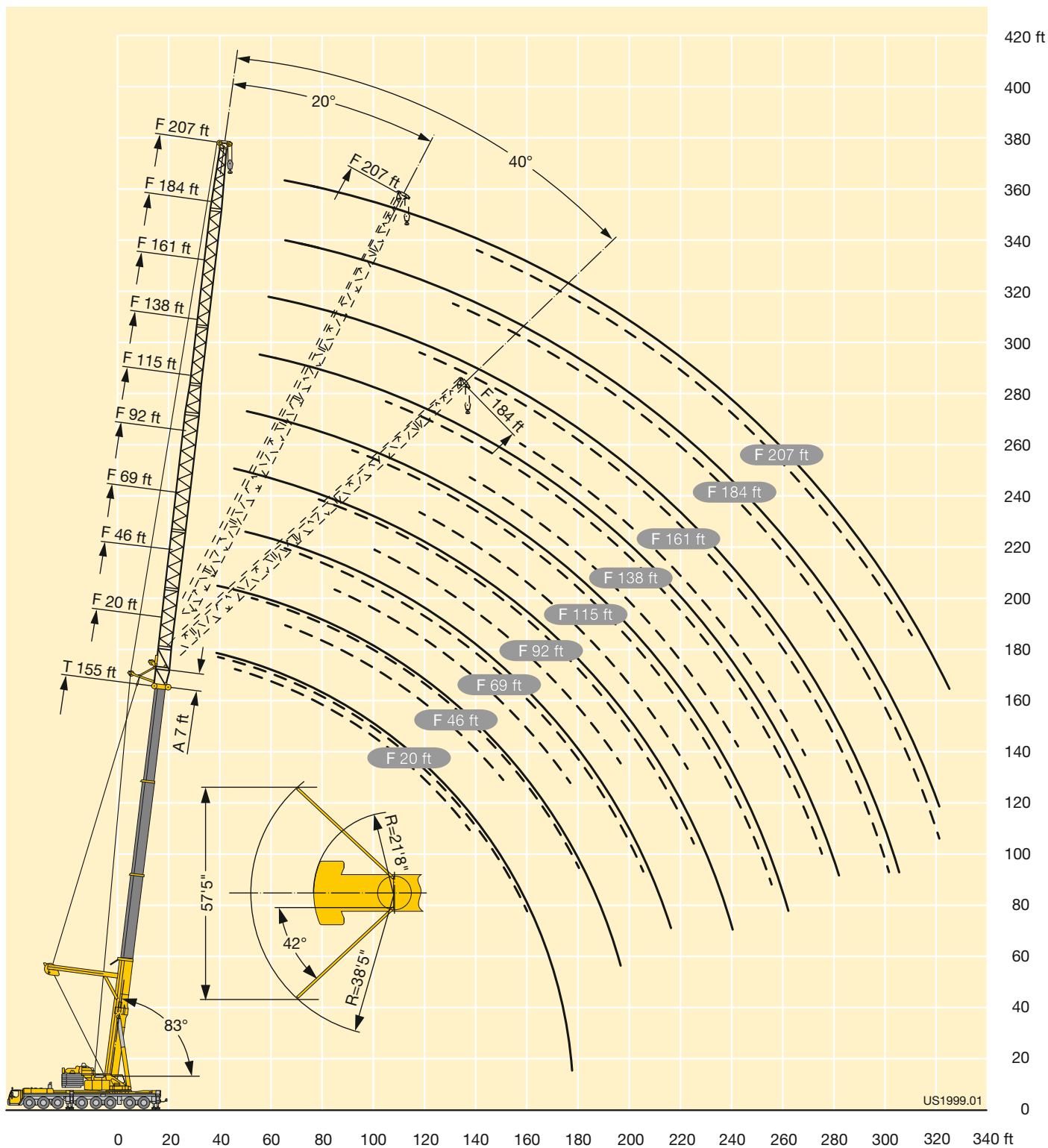


 ft	155 ft + 7 ft*							 ft
	161 ft			184 ft		207 ft		
	0°	20°	40°	0°	20°	0°	20°	
55	41.9							55
60	41.6							60
65	39.9			31.7		26.9		65
70	38.3			30.6		26.1		70
75	36.8			29.4		25.2		75
80	35.4			28.3		24.2		80
85	34.0			27.2		23.3		85
90	32.7			26.1		22.5		90
95	31.5			25.1		21.7		95
100	30.4			24.2		20.8		100
105	29.2			23.3		20.0		105
110	28.1			22.4		19.3		110
115	27.1	19.8		21.5		18.6		115
120	26.2	19.5		20.7		17.9		120
125	25.3	18.8		19.9		17.2		125
130	24.5	18.2		19.2	14.0	16.6		130
135	23.6	17.6		18.6	13.7	16.0		135
140	22.8	17.1		17.9	13.2	15.4	9.9	140
145	21.9	16.5		17.3	12.7	14.9	9.9	145
150	21.2	16.1		16.6	12.2	14.3	9.5	150
155	20.6	15.6	11.0	15.9	11.8	13.8	9.2	155
160	20.0	15.1	10.9	15.4	11.4	13.2	8.9	160
165	19.3	14.7	10.7	14.9	11.0	12.7	8.5	165
170	18.7	14.2	10.4	14.4	10.7	12.2	8.2	170
175	18.1	13.8	10.2	13.9	10.3	11.7	8.0	175
180	17.5	13.4	10.1	13.4	10.0	11.3	7.7	180
185	16.9	13.0	9.9	12.9	9.7	10.9	7.4	185
190	16.4	12.7	9.7	12.4	9.5	10.5	7.1	190
195	15.9	12.3	9.5	11.9	9.2	10.1	6.9	195
200	15.4	12.0	9.4	11.5	8.9	9.7	6.6	200
205	14.9	11.7	9.2	11.1	8.6	9.3	6.4	205
210	14.4	11.4	9.1	10.8	8.4	8.9	6.2	210
215	13.9	11.0	9.0	10.4	8.2	8.6	5.9	215
220	13.4	10.8	8.9	10.0	7.9	8.2	5.7	220
225	12.9	10.6	8.7	9.7	7.7	7.9	5.5	225
230	12.5	10.4	8.7	9.3	7.5	7.7	5.3	230
235	12.2	10.1	8.5	9.0	7.3	7.4	5.1	235
240	11.8	9.9	8.5	8.6	7.1	7.1	4.9	240
245	11.4	9.7	8.4	8.3	6.9	6.7	4.7	245
250	11.1	9.5	8.4	8.1	6.8	6.4	4.5	250
255	10.7	9.4	8.3	7.9	6.6	6.1	4.3	255
260	10.4	9.2	8.3	7.6	6.4	5.9	4.2	260
265	10.0	9.1	8.3	7.4	6.3	5.7	4.0	265
270	9.8	9.0		7.1	6.1	5.4	3.9	270
275	9.6	8.8		6.9	6.0	5.2	3.7	275
280	9.4	8.7		6.7	5.9	5.0	3.6	280
285	9.2	8.6		6.4	5.8	4.8	3.4	285
290	8.9	8.6		6.3	5.6	4.6	3.3	290
295	8.7	8.5		6.1	5.5	4.4	3.2	295
300	7.9	8.5		5.9	5.4	4.2	3.1	300
305	6.3			5.8	5.4	4.0	3.0	305
310				5.6	5.3	3.8	2.9	310
315				5.4	5.3	3.6		315
320				5.3	5.3	3.5		320
325						3.3		325

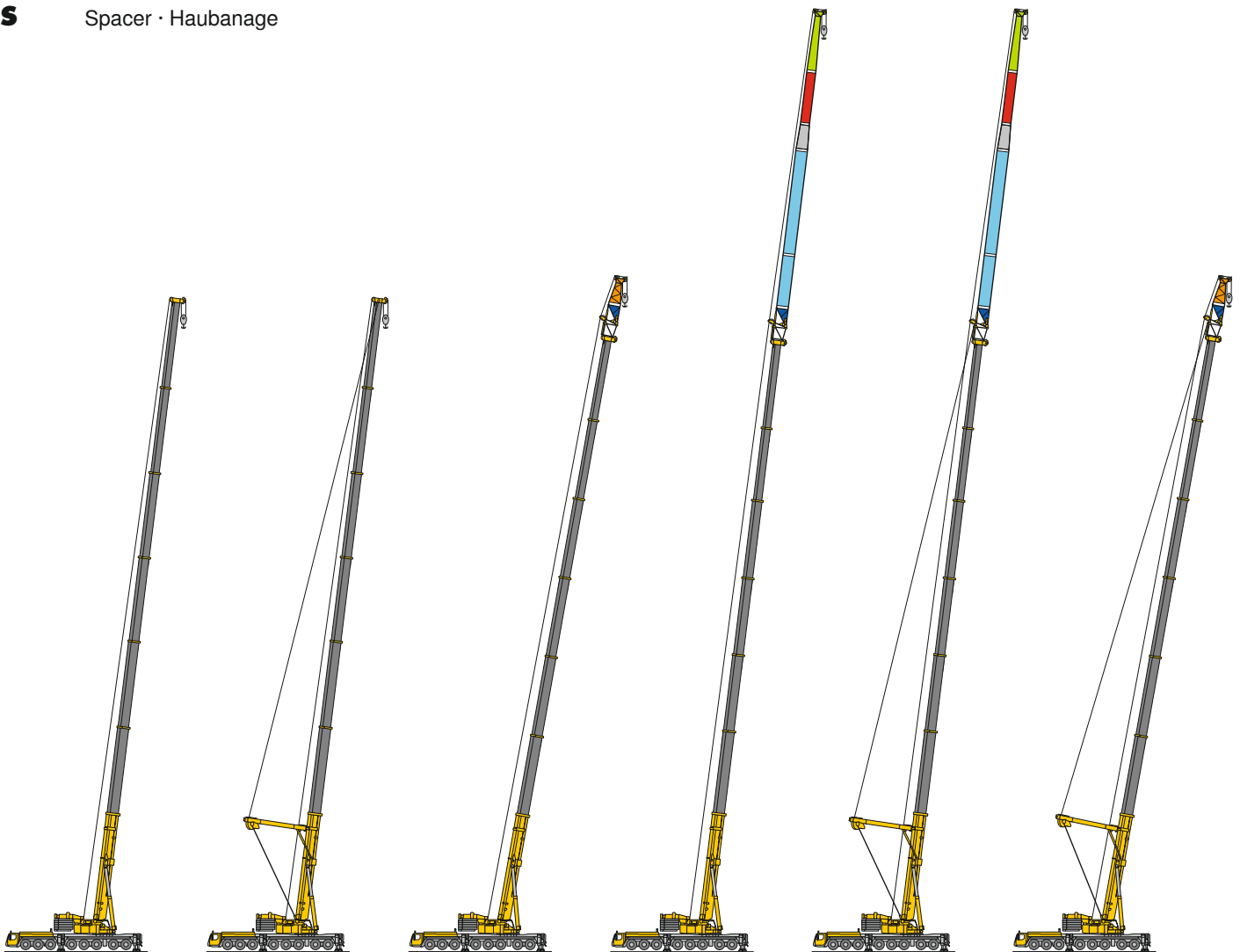
* adapter · pièce d'adaptateur

TAB 223294 / 223296 / 223298

P



- T** Telescopic boom · Flèche télescopique
- Y3** Y-shaped guying system · Haubanage Y
- F** Fixed lattice jib · Fléchette treillis fixe
- NZF** Hydraulically adjustable lattice jib · Fléchette treillis à bras réglable hydrauliquement
- N** Luffing fly jib · Fléchette treillis à volée variable
- E** Eccentric · Axe excentrique
- S** Spacer · Haubanage

**T****TY3****TF
TNZF****TF
TNZF****TY3F
TY3NZF****TY3F
TY3NZF**

B

C

D / N

D / N

F / O

F / O



TY3EF
TY3ENZF

TY3EF
TY3ENZF

TN

TY3N

TY3SN

 G / P	G / P	I	K	M
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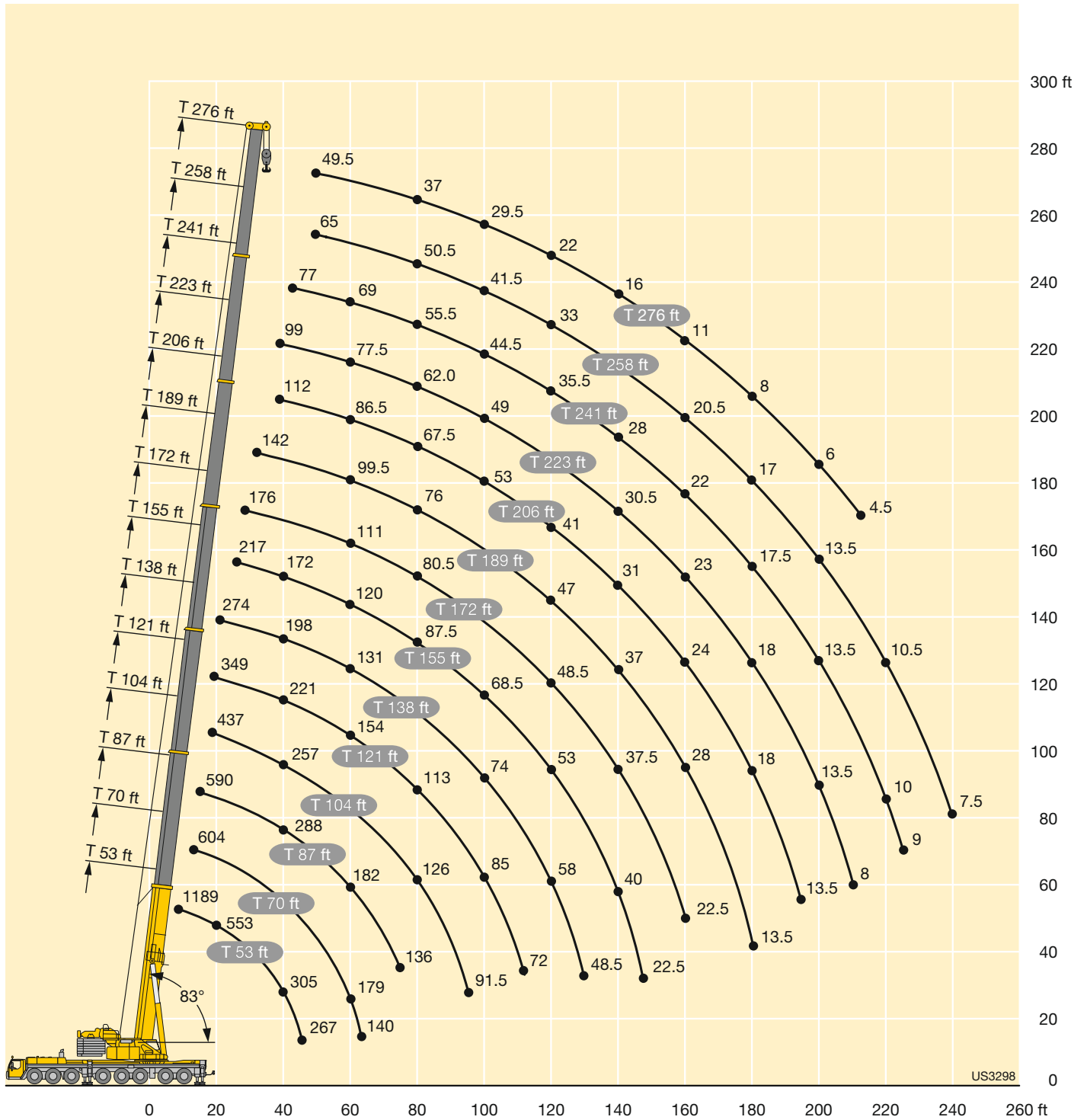
S2708.02

Lifting heights Hauteurs de levage



T

B

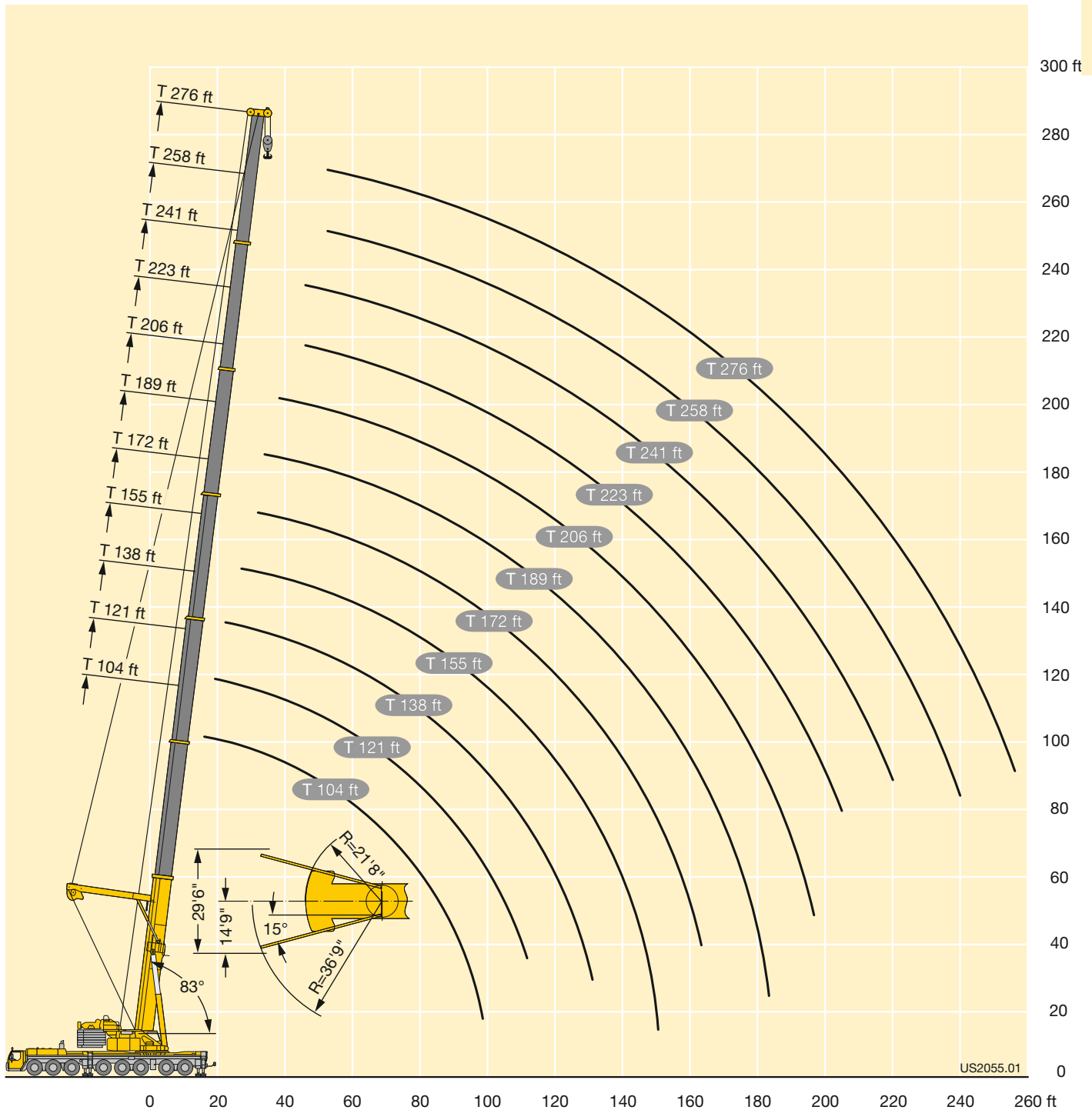


Lifting capacities Forces de levage



TY3

C



Lifting capacities Forces de levage



TF



D

258 ft + 7 ft*																		
ft	20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	
50	47.2																	50
55	45.9	44																55
60	43.3	43.5		35.5														60
65	41	41.2	41.5	33.5			27.8											65
70	39	39.1	39.5	31.7			26.5											70
75	37	37.1	37.4	30.1	29.8		25.1			20.9								75
80	35.2	35.2	35.5	28.6	29.4		23.8			19.8			16.4					80
85	33.5	33.5	33.7	27.2	27.9		22.7			18.7			15.5			12.7		85
90	31.7	31.9	32.1	25.9	26.5	27	21.6	22.5		17.8			14.6			12		90
95	30	30.4	30.5	24.7	25.2	26.1	20.6	21.8		16.9			13.8			11.2		95
100	28.4	28.8	29.1	23.5	24	24.8	19.6	20.7		16	16.8		13.1			10.5		100
105	26.6	27.2	27.6	22.4	22.8	23.6	18.7	19.6		15.2	16.8		12.3			9.9		105
110	25	25.6	26.1	21.1	21.7	22.5	17.8	18.7	19.6	14.5	16		11.7			9.3		110
115	23.5	24.1	24.7	19.8	20.6	21.4	16.9	17.8	19	13.7	15.1		11	12.3		8.7		115
120	22.1	22.6	23.2	18.6	19.6	20.4	16.1	16.9	18.1	13	14.3		10.4	12.1		8.2		120
125	20.8	21.3	21.8	17.3	18.6	19.4	15.1	16	17.1	12.3	13.5		9.8	11.4		7.6		125
130	19.5	20	20.4	16.2	17.5	18.5	14.1	15.3	16.3	11.6	12.8	13.2	9.2	10.8		7.1	8.6	130
135	18.3	18.7	19.2	15.1	16.4	17.6	13.2	14.5	15.4	10.9	12.1	13	8.6	10.2		6.6	8.3	135
140	17.2	17.5	17.9	14.1	15.3	16.7	12.3	13.7	14.7	10.1	11.4	12.6	8.1	9.5		6.1	7.9	140
145	16.1	16.4	16.8	13.1	14.3	15.8	11.4	13	13.9	9.3	10.8	12	7.4	8.9			7.4	145
150	15	15.3	15.7	12.1	13.3	14.8	10.5	12.2	13.1	8.5	10.2	11.3	6.9	8.4	8.6		6.9	150
155	14	14.3	14.6	11.2	12.3	13.8	9.7	11.4	12.4	7.8	9.5	10.7	6.3	7.8	8.4		6.4	155
160	13	13.3	13.5	10.3	11.4	12.8	9	10.6	11.7	7.1	8.9	10	5.6	7.3	8.3		5.9	160
165	12	12.3	12.6	9.5	10.6	11.9	8.2	9.8	11	6.4	8.3	9.4		6.7	8		5.4	165
170	11.1	11.3	11.6	8.6	9.7	11	7.5	9	10.3	5.7	7.7	8.8		6.3	7.6		4.9	170
175	10.2	10.4	10.6	7.8	8.9	10.1	6.8	8.3	9.6	5.1	7.1	8.2		5.8	7			175
180	9.3	9.5	9.7	7	8.1	9.3	6.1	7.6	8.8		6.4	7.7		5.2	6.5			180
185	8.4	8.6	8.8	6.3	7.4	8.5	5.4	6.9	8		5.8	7.1			6			185
190	7.6	7.8	8	5.6	6.6	7.7	4.7	6.2	7.3		5.1	6.6			5.5			190
195	6.7	7	7.2	4.9	5.9	7		5.5	6.5		4.5	6			5.1			195
200	6	6.3	6.5		5.2	6.3		4.8	5.8			5.4			4.6			200
205	5.3	5.6				5.5			5.2			4.7						205
210		4.9				4.8												210
215		4.2				4.3												215

* adapter · pièce d'adaptateur

** optional · en option

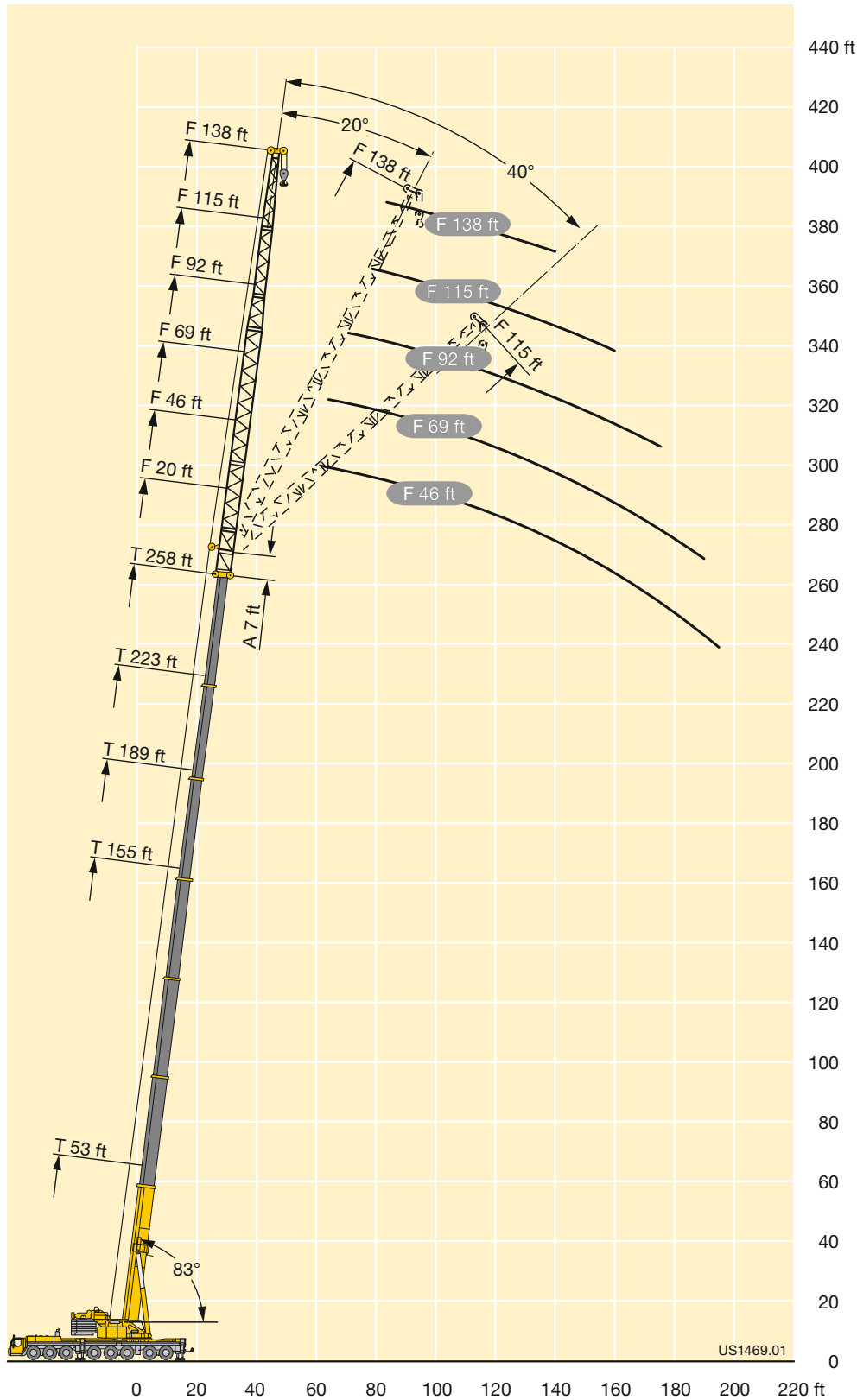
TAB 231463 / 231464 / 231465

Lifting heights Hauteurs de levage



TF

D



Lifting capacities Forces de levage



258 ft + 7 ft*																			
20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft				
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°		ft	
50	82																	50	
55	80.5	74.5		64														55	
60	77.5	74		63.5														60	
65	75	72	71.5	61				49.5										65	
70	73	70	69.5	59				48			38.5							70	
75	71	68.5	68	57.2	50.7			46.4			37.6							75	
80	69.5	67	66	55.6	50.4			44.9			36.2							80	
85	67.5	65.5	64.5	54.1	48.9			43.5			35			28.1				85	
90	65	64	63	52.7	47.7	41.5	42.3	34.9			33.9			27.2			21.9	90	
95	63	62.5	61.5	51.4	46.5	41	41.2	34.4			32.8			26.3			21.4	95	
100	61	61	60	50.2	45.4	40.2	40.1	33.6			31.9			25.5			20.6	100	
105	59.4	59.2	58.5	49	44.3	39.4	39	32.8			31			24.7			20	105	
110	57.6	57.3	57.1	47.9	43.3	38.7	38.1	32.1	26.1	30.1	23.9			24			19.3	110	
115	55.8	55.3	55.5	46.8	42.3	38.1	37.2	31.5	26	29.3	23.5			23.4			18.8	115	
120	53.8	53.4	53.8	45.7	41.4	37.4	36.3	30.8	25.7	28.6	23			22.8	15.9		18.2	120	
125	51.9	51.6	52.1	44.6	40.5	36.7	35.4	30.2	25.3	27.8	22.5			22.2	15.8		17.7	125	
130	49.7	49.9	50.4	43.3	39.6	36.2	34.6	29.6	24.9	27.1	22	14.5		21.6	15.6		17.3	130	
135	47.3	48.2	48.7	42	38.7	35.6	33.8	28.9	24.5	26.4	21.5	14.5		21.1	15.3		16.8	135	
140	45	46.3	46.9	40.6	37.9	34.9	33	28.3	24.1	25.8	21	14.5		20.5	15.1		16.4	140	
145	42.7	44.3	44.9	39.2	37	34.2	32.2	27.7	23.7	25.1	20.5	14.5		20	14.9		15.9	145	
150	40.5	42.1	42.7	38	36.2	33.5	31.4	27.1	23.3	24.5	20	14.5		19.5	14.7	8.4	15.5	150	
155	38.5	40	40.6	36.8	35.4	32.9	30.7	26.6	23	23.9	19.6	14.5		19	14.5	8.4	15.1	155	
160	36.5	38	38.6	35.6	34.6	32.3	29.9	26	22.6	23.3	19.1	14.5		18.5	14.3	8.4	14.7	160	
165	34.5	36	36.7	34.3	33.9	31.7	29.3	25.5	22.3	22.7	18.7	14.5		18	14.1	8.4	14.3	165	
170	32.7	34.1	34.8	32.8	33.2	31.2	28.6	24.9	22	22.1	18.3	14.5		17.5	13.8	8.4	13.9	170	
175	30.7	32	32.8	31.2	32.4	30.7	28	24.4	21.7	21.6	17.9	14.5		17	13.5	8.4	13.6	175	
180	28.6	29.8	30.6	29.6	31.4	30.1	27.4	23.8	21.4	21.1	17.6	14.5		16.6	13.2	8.4	13.2	180	
185	26.4	27.6	28.3	28	30.2	29.6	26.7	23.3	21	20.6	17.2	14.4		16.2	12.9	8.4	12.8	185	
190	24.3	25.4	26	26.4	28.9	29.1	26	22.8	20.7	20.1	16.8	14.3		15.8	12.6	8.4	12.4	190	
195	22.3	23.4	23.9	24.6	27.1	28.2	24.8	22.3	20.3	19.6	16.4	14.1		15.4	12.3	8.4	12.1	195	
200	20.4	21.4	21.9	22.9	25.2	26.7	23.5	21.8	20	19.2	16.1	13.8		15	12.1	8.4	11.8	200	
205	18.6	19.5	20	21.1	23.4	24.8	22	21.4	19.7	18.7	15.7	13.6		14.6	11.8	8.4	11.4	205	
210	16.9	17.7		19.4	21.6	22.9	20.4	20.9	19.4	18.3	15.3	13.3		14.2	11.6	8.4	11.1	210	
215	15.3	16.1		17.7	19.8	21.1	18.9	20.6	19.1	17.9	15	13.1		13.9	11.3	8.4	10.8	215	
220	13.7	14.5		16.2	18.1	19.3	17.4	20	18.8	17.2	14.6	12.8		13.6	11.1	8.4	10.5	220	
225	12.3	13		14.7	16.5	17.6	16	18.9	18.5	16.3	14.3	12.6		13.2	10.8	8.4	10.3	225	
230	11.1	11.6		13.3	15	15.9	14.5	17.3	18.2	15	14	12.4		12.9	10.5	8.4	10	230	
235	10	10.5		12	13.5	14.4	13.1	15.8	17.3	13.7	13.7	12.2		12.6	10.3	8.4	9.7	235	
240	8.9	9.4		10.9	12.2		12	14.4	16	12.5	13.4	11.9		12.3	10	8.3	9.4	240	
245	7.8	8.2		9.9	11.1		10.9	13	14.4	11.4	13.2	11.7		11.7	9.7	8.2	9.2	245	
250	6.4	7		8.9	10		9.9	11.8	13	10.3	12.8	11.5		10.7	9.5	8	8.9	250	
255	4.9	5.5		8	9		9	10.7	11.7	9.3	12	11.3		9.7	9.3	7.8	8.7	255	
260				6.8	8		7.9	9.8		8.3	11	11.1		8.7	9.1	7.7	8.4	260	
265				5.7	6.9		6.9	8.8		7.3	10	10.9		7.7	8.9	7.6	8	265	
270				4.6	5.7		5.9	7.8		6.3	9	10.4		6.8	8.7	7.4	7.3	270	
275				3.5	4.5		4.9	6.7		5.4	8	9.4		5.9	8.5	7.3	6.4	275	
280							3.9	5.6		4.5	6.9	8.3		5	8	7.1	5.5	280	
285								4.6			6			4.1	7.3	6.8	4.7	285	
290											5				6.3	6.5	3.9	290	
295											4				5.4	6.1	3.1	295	
300															4.5	5.7		300	
305															3.6		3.1	305	

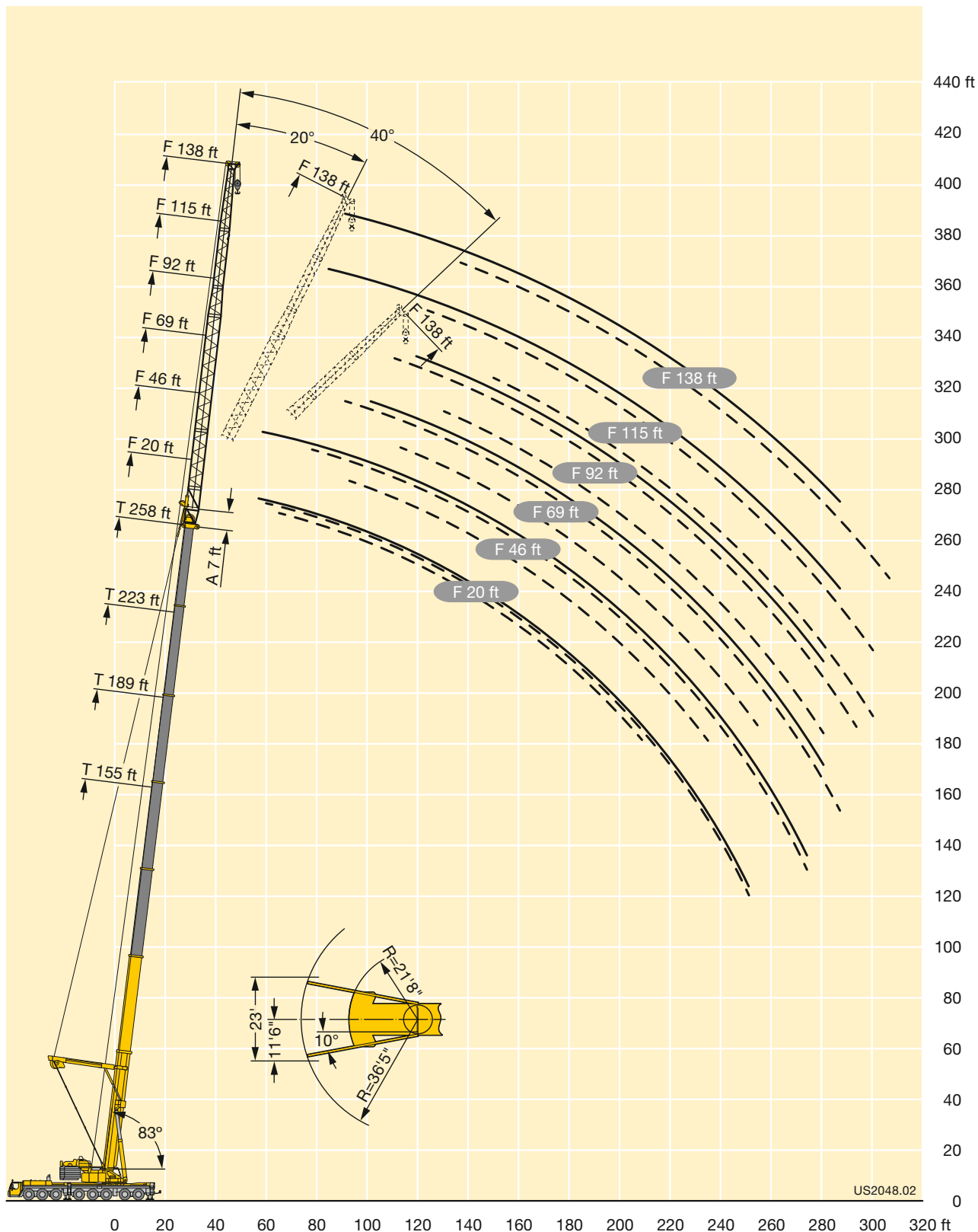
* adapter · pièce d'adaptateur
** optional · en option

TAB 231487 / 231489 / 231491

Lifting heights Hauteurs de levage



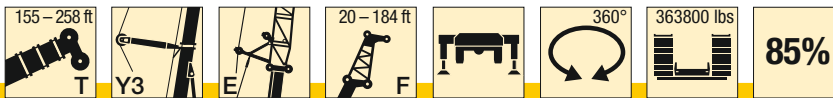
TY3F



Lifting capacities Forces de levage



TY3EF



223 ft + 7 ft*																					
20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft			161 ft		184 ft	
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	0°	0°			
50	145																		50		
55	141	132		118															55		
60	134	131		117															60		
65	127	127	95.5	112				93.5		71									65		
70	119	120	94	107				91		69			54.8						70		
75	111	113	92.5	102	88			88		67			53.8			41.6			75		
80	104	106	91	97.5	87.5			84.5		65			52.1			41.2			80		
85	97.5	99	90	93.5	86	60		81	58.4	63			50.5			39.9		31.3	85		
90	91.5	93	88.5	88.5	84	59.6	77.5	58.3		61			49.1			38.7		30.3	90		
95	86.5	87.5	86.5	84	82	59.1	74.5	57.8		59.4			47.6			37.6		29.4	95		
100	81.5	82.5	84	79.5	79.5	58.5	71.5	56.9	30.8	57.8	35.5		46.2			36.5		28.5	100		
105	76.5	78	79.5	75	77	57.9	69	55.7	31.7	56.3	35.7		44.9			35.3		27.6	105		
110	70	73.5	75	71	73.5	57.4	66	54.6	32.6	54.8	36.1		43.7			34.3		26.8	110		
115	65	69	70.5	67	70	56.8	63.5	53.6	33.6	53.3	36.4		42.5	26.4		33.4		26	115		
120	60	64	66.5	63.5	66.5	56.3	61.5	52.6	34.6	51.8	36.7	21.2	41.4	26.5		32.5		25.2	120		
125	55.9	59.5	62	59.9	63	55.9	58.5	51.6	35.3	50.3	36.9	21.6	40.2	26.6		31.6	18.3	24.5	125		
130	51.7	54.8	57.4	56.1	59.6	55.5	55.7	50.7	34.9	48.9	36.4	22.2	39.2	26.8		30.7	18.3	23.8	130		
135	47.5	50.3	52.9	52.4	56.5	55.2	52.6	49.8	34.6	47.3	35.9	22.8	38.3	26.9		29.9	18.3	23.2	135		
140	43.5	46.3	48.6	49	53.3	54.4	49.5	49	34.3	45.8	35.4	23.4	37.4	26.9	11.8	29.1	18.4	22.5	140		
145	40	42.9	44.7	45.8	49.8	53	46.3	48.3	34	44.3	34.9	23.7	36.6	26.8	11.9	28.4	18.4	21.8	145		
150	36.9	39.5	41.2	42.8	46.6	49.7	43.4	47.5	33.7	42.8	34.4	23.6	35.7	26.7	12.1	27.8	18.4	21.3	150		
155	33.9	36.1	37.6	39.4	43.6	46.5	40.7	45.7	33.4	40.8	33.8	23.5	34.8	26.5	12.3	27.1	18.5	20.7	155		
160	30.8	32.7	34.2	36.4	40.8	43.5	38.1	43.3	33.1	38.5	33.3	23.3	33.9	26.3	12.6	26.4	18.5	20.2	160		
165	27.8	29.6	31	33.8	38	40.6	35.6	40.6	32.8	36.1	32.7	23.2	33	26	12.9	25.7	18.5	19.7	165		
170	24.8	27	28.1	31.2	35.4	37.8	33.2	38	32.4	33.9	32.1	22.9	32	25.6	13.3	25	18.6	19.2	170		
175	22.3	24.4		28.7	32.7	35.1	30.8	35.6	31.9	31.7	31.5	22.7	30.9	25.2	13.7	24.3	18.6	18.7	175		
180	20	21.8		26.1	30.1	32.4	28.4	33.3	31.4	29.7	30.8	22.4	29.6	24.8	14.1	23.5	18.4	18.1	180		
185	17.8	19.2		23.5	27.4	29.8	26.2	31.1	30.8	27.7	29.9	22.2	28	24.4	14.3	22.7	18.1	17.6	185		
190	15.5	16.6		20.9	24.8	27.1	23.9	29	30.3	25.8	29	22	26.2	23.9	14.3	21.9	17.7	17.2	190		
195	13.2	14.4		18.9	22.2	24.3	21.6	26.9	29.1	24.1	28.2	21.8	24.5	23.5	14.4	21.2	17.3	16.8	195		
200	11	12.2		17	19.8		19.4	24.7	27.2	22.4	26.9	21.7	22.9	23.1	14.4	20.4	17	16.4	200		
205	8.9	10.1		15	17.7		17.2	22.5	24.9	20.7	25.4	21.5	21.3	22.8	14.4	19.6	16.6	16	205		
210	7	8		13	15.6		15.2	20.2	22.3	19.1	23.7	21.4	19.8	22.4	14.4	18.8	16.3	15.6	210		
215	5.1	5.9		11.1	13.5		13.5	17.9	19.8	17.1	21.9	21.1	18.3	22	14.3	18	15.9	15.2	215		
220				9.1	11.4		11.7	15.7	17.3	15	20.1	20.1	16.9	21.5	14.2	16.9	15.7	14.8	220		
225				7.3	9.4		10	13.8		13.2	18.3	18.6	15.5	20.5	14	15.7	15.4	14.5	225		
230				5.9	7.4		8.3	11.9		11.6	16.6	17.2	14.1	19	13.9	14.4	15.1	14.1	230		
235				4.6	5.9		6.6	10		10.1	14.5	15.7	12.7	17.4	13.8	13.2	14.8	13.2	235		
240					4.4		4.9	8.1		8.5	12.5	14.2	11.3	15.9	13.3	12.1	14.5	12.2	240		
245								6.3		7	10.7		9.9	14.5	12.6	10.9	14	11.2	245		
250										5.5	9		8.6	13	11.8	9.9	13.4	10.1	250		
255										4	7.3		7.3	11.5	11	8.8	12.4	9.1	255		
260											5.7		5.9	9.8	10.2	7.8	11.4	8	260		
265													4.6	8.3	9.2	6.8	10.4	6.9	265		
270														6.9		5.9	9.4	5.8	270		
275														5.5		4.9	8.4	4.8	275		
280														4.2		4.1	7.4	4.2	280		
285																	6.5	3.7	285		
290																	5.5		290		
295																	4.4		295		
300																	3.5		300		

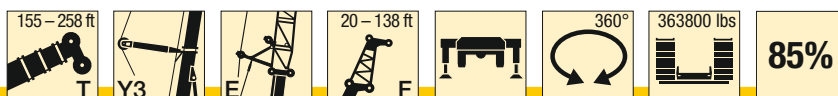
* adapter · pièce d'adaptateur
** optional · en option

TAB 232056 / 232065 / 232074

Lifting capacities Forces de levage



TY3EF

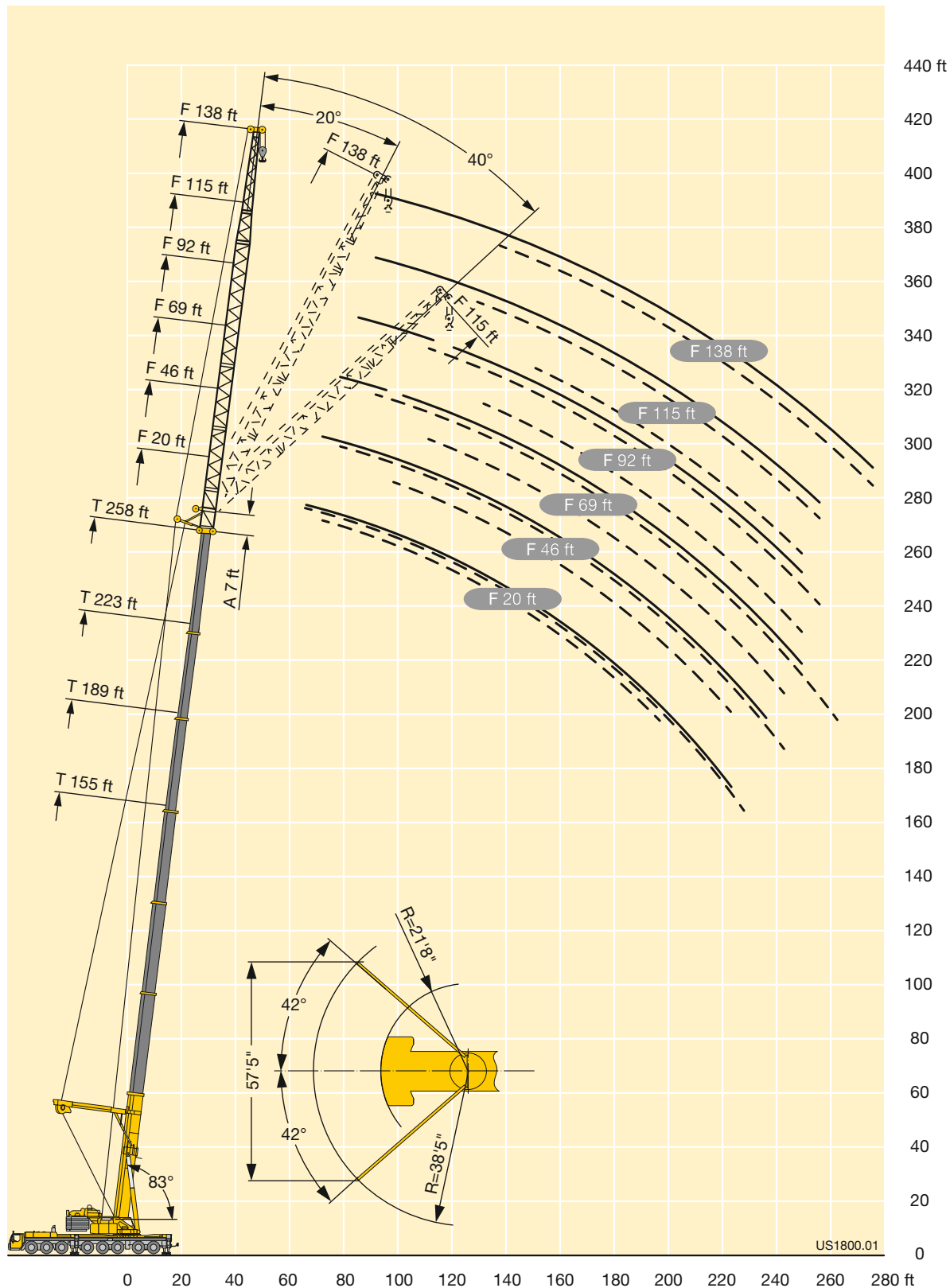


	258 ft + 7 ft*																	
	20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°		20°
65	85			67														65
70	82	77.5	74	67														70
75	78.5	76	73	66			53.2											75
80	75	73.5	70.5	63.5			52.8											80
85	72	71	68.5	61.5	54.9		51			41.3								85
90	68	68	66.5	59.3	53.3		49.4			40			33.5			30.2		90
95	64.5	65.5	64.5	57.3	51.7	45.9	47.8	38.1		38.7			32.8			30		95
100	61	63	62	55.5	50.3	45.8	46.3	37.9		37.5			31.7			29.5		100
105	57.1	60.5	59.9	53.8	48.8	45.6	44.8	37.5		36.2			30.7			28.6		105
110	54.2	57.7	57.3	52.1	47.4	44.5	43.4	36.8	27.6	35.1	24.9		29.7			27.7		110
115	51.3	54.7	54.7	50.3	46.1	43.5	42.1	36.1	27.6	34	24.6		28.8			26.9		115
120	48.5	51.7	52.1	48.5	44.9	42.5	40.8	35.3	27.6	32.9	24.2		27.8	15.9		26.1		120
125	45.7	48.6	49.4	46.7	43.6	41.5	39.5	34.5	27.6	32	23.8		26.9	15.9		25.2		125
130	42.8	45.6	46.7	44.8	42.4	40.5	38.4	33.6	27.6	31	23.6	15	26.1	15.5		24.4		130
135	40.3	43	43.9	42.9	41.1	39.5	37.3	32.8	27.6	30	23.3	14.8	25.4	15.2		23.7	11.1	135
140	38	40.7	41.3	41	39.8	38.5	36.2	31.9	27.5	29.1	23	14.7	24.6	14.9		23	10.9	140
145	36	38.5	38.9	39.1	38.5	37.4	35.2	31	27.4	28.3	22.6	14.5	23.8	14.6		22.4	10.6	145
150	34	36.2	36.7	37.3	37.2	36.4	34.1	30.2	27.1	27.5	22.3	14.4	23	14.4	8.5	21.7	10.3	150
155	31.9	34	34.5	35.4	35.9	35.4	33.1	29.5	26.9	26.7	22	14.3	22.3	14.1	8.3	21	10.2	155
160	29.9	31.8	32.3	33.6	34.5	34.3	32	28.7	26.6	25.9	21.6	14.2	21.7	13.9	8.1	20.3	10	160
165	27.8	29.6	30.2	31.7	33	33.2	30.8	27.9	26	25.1	21.2	14.2	21.1	13.8	8	19.8	9.8	165
170	25.7	27.4	28.1	29.9	31.3	31.9	29.2	27.2	25.4	24.3	20.6	14.2	20.5	13.6	7.8	19.3	9.7	170
175	23.5	25.2	25.9	28	29.5	30.2	27.7	26.4	24.7	23.5	20	14.2	19.8	13.5	7.7	18.7	9.6	175
180	21.4	23	23.8	26.1	27.8	28.4	26.2	25.5	24	22.5	19.4	14.2	19.2	13.3	7.6	18.2	9.5	180
185	19.2	20.8	21.6	24.2	26.1	26.7	24.6	24.3	23.3	21.2	18.7	14.2	18.6	13.1	7.5	17.6	9.4	185
190	17	18.7	19.5	22.2	24.4	24.9	23.1	23	22.6	19.9	18.1	14.1	17.9	12.9	7.5	17.1	9.3	190
195	14.9	16.7	17.3	20.1	22.5	23.2	21.5	21.6	21.3	18.7	17.4	14	17.1	12.6	7.5	16.5	9.2	195
200	12.9	14.7		18.1	20.7	21.4	19.9	20.2	20.1	17.4	16.6	13.8	16.2	12.3	7.4	16	9.1	200
205	11.2	12.8		16.1	18.8	19.5	18.1	18.9	18.8	16.2	15.5	13.7	15.4	12	7.4	15.5	9	205
210	9.5	10.8		14	16.8	17.7	16.4	17.5	17.5	14.9	14.4	13.5	14.5	11.7	7.4	15.1	8.8	210
215	7.8	8.8		12	15	15.8	14.7	16.1	16.2	13.6	13.2	12.6	13.7	11.5	7.4	14.7	8.7	215
220	6.1	7.1		10.3	13.1	13.9	12.9	14.6	14.9	12.3	12.1	11.5	12.8	10.8	7.3	14.3	8.6	220
225		5.5		8.8	11.2		11.2	13.2	13.7	10.9	10.9	10.3	12	10	7.3	13.8	8.5	225
230				7.3	9.6		9.4	11.7	12.4	9.6	9.7	9.2	11.1	9	7.3	13.4	8.3	230
235				5.9	7.9		7.8	10.2	11.1	8.3	8.7	8	9.8	8	6.8	13	8.2	235
240				4.4	6.4		6.7	8.7	9.8	6.9	7.7	6.9	8.5	7	5.9	12.2	7.8	240
245							5.7	7.3		5.6	6.7	5.8	7.3	6	4.8	11.2	7.2	245
250							4.8	6.1			5.7	4.7	6	5.1		10.1	6.6	250
255							3.9	5.2			4.8	3.6	4.7	4.3		9.1	6	255
260								4.3			3.8			3.7		7.9	5.4	260
265																6.6	4.8	265
270																5.3	4.2	270
275																3.9	3.6	275

* adapter · pièce d'adaptateur

** optional · en option

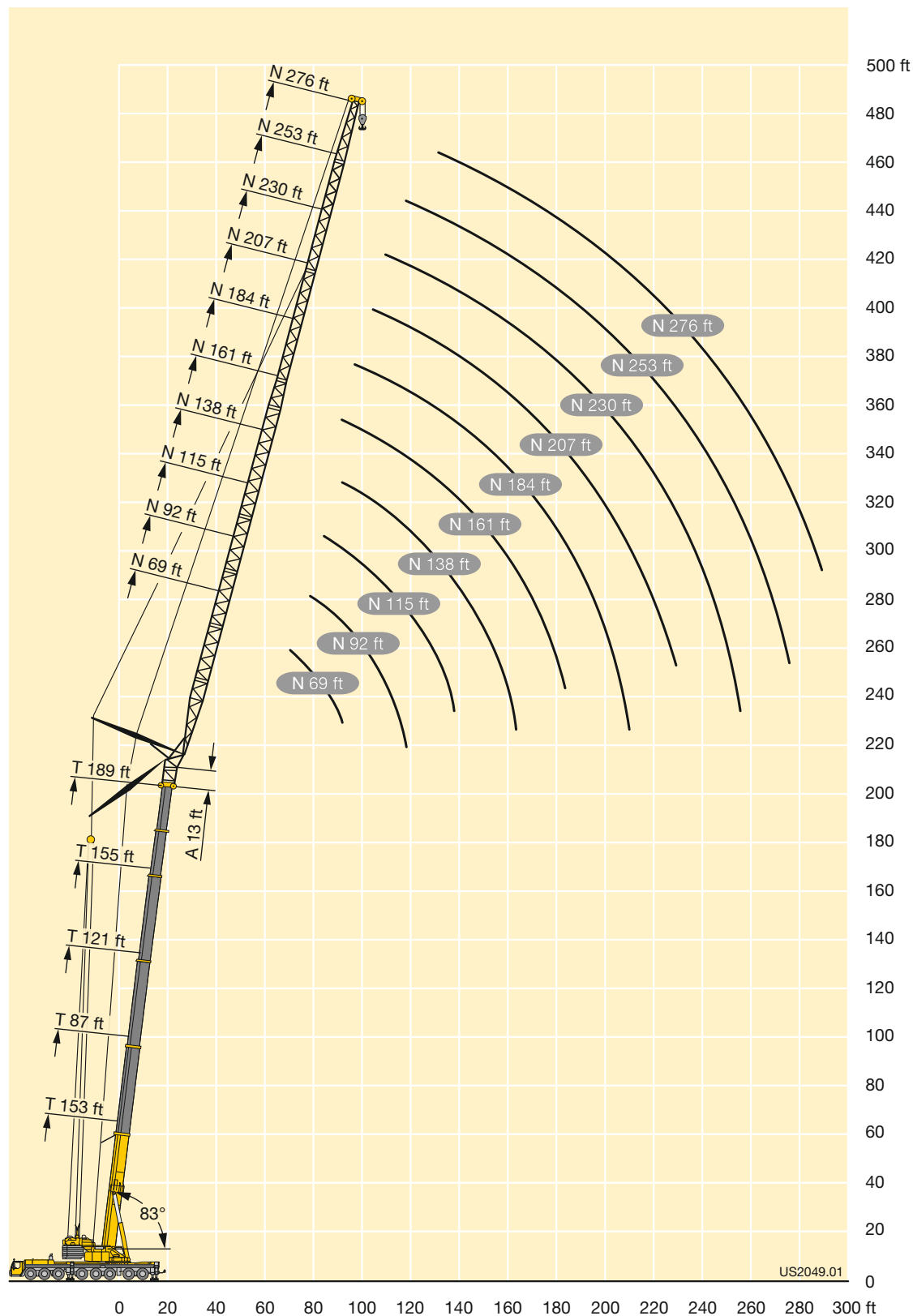
TAB 232056 / 232065 / 232074



Lifting heights Hauteurs de levage



TN



Lifting capacities Forces de levage



85%

ft	189 ft + 13 ft*								223 ft + 13 ft*					258 ft + 13 ft*		ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	69 ft	92 ft	115 ft	138 ft	161 ft	69 ft	92 ft	
100	40.7															100
105	38.6															105
110	36.7	32.6							20.5							110
115	35	31.4							19.7							115
120		29.8	26.1						18.5	12.9				7.1		120
125		28.3	26						17.3	12.8				7.1		125
130		26.9	24.7	21.8					16.2	12.1	10.1			6.7		130
135		25.8	23.5	20.9						11.4	9.7			6.2	3.2	135
140		24.7	22.3	19.8	15.6					10.8	9.2	6.8			3	140
145			21.2	18.6	15.5					10.3	8.7	6.8			2.7	145
150			20.3	17.6	14.5	10.9				9.8	8.3	6.3			2.4	150
155			19.4	16.6	13.4	10.4					7.8	5.9	3.6			155
160			18.6	15.6	12.5	9.8	7.2				7.4	5.5	3.5			160
165				14.8	11.8	9.3	7.1				7	5.1	3.1			165
170				14.2	11.2	8.8	6.6				6.7	4.8	2.8			170
175				13.7	10.8	8.3	6.2	3.9			6.4	4.5	2.5			175
180				13.2	10.3	7.9	5.8	3.7				4.2				180
185				12.8	9.9	7.5	5.3	3.3				4				185
190				12.3	9.6	7.1	4.9	3				3.7				190
195					9.3	6.7	4.6	2.5				3.5				195
200					9	6.3	4.2									200
205					8.7	6.1	3.8									205
210						5.8	3.4									210
215						5.5	3.1									215
220						5.3	2.9									220
225						5	2.7									225
230						4.8	2.4									230
235						4.6	2.3									235

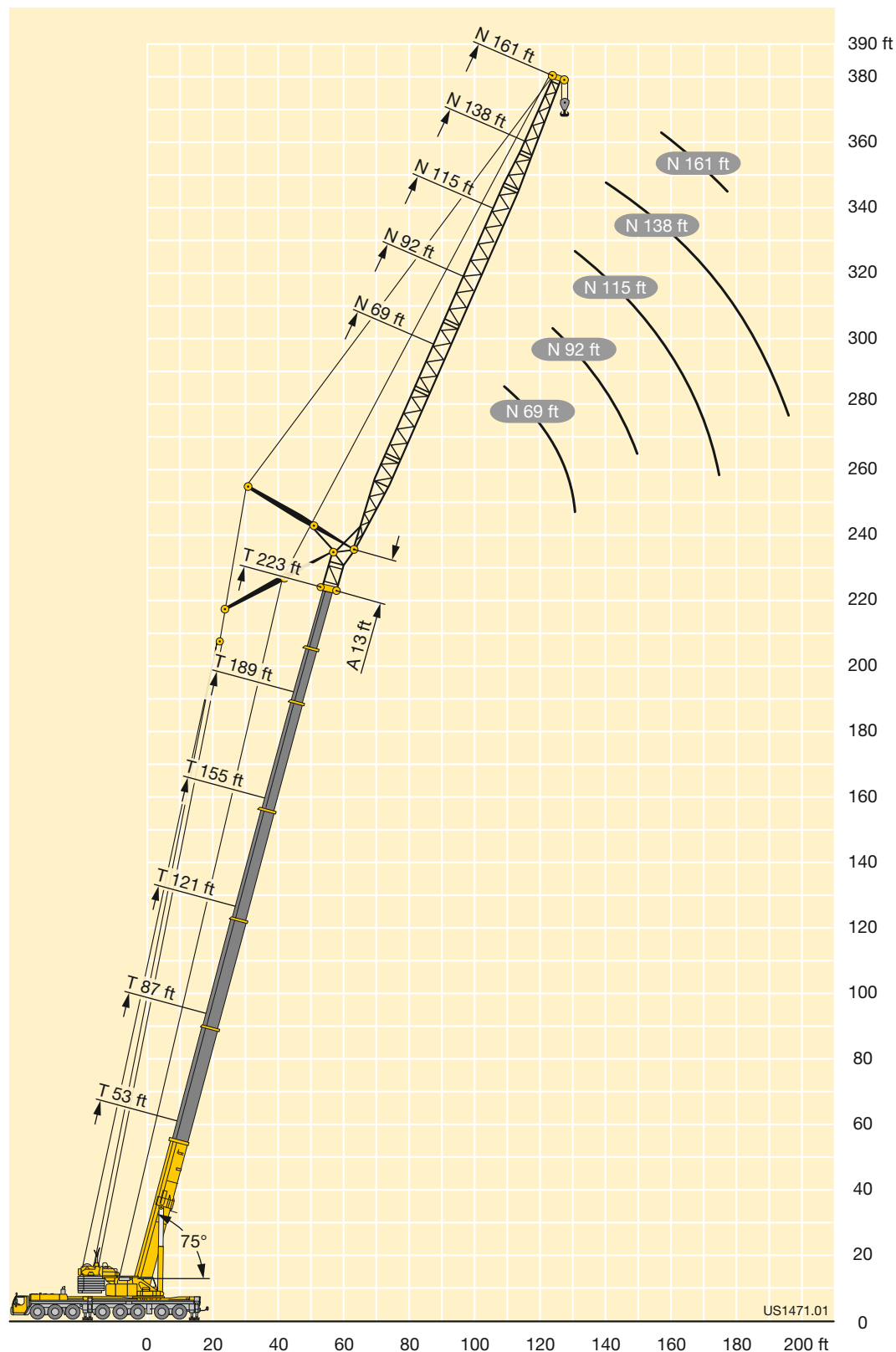
* adapter · pièce d'adaptateur

TAB 231250

Lifting heights Hauteurs de levage



TN



Lifting capacities Forces de levage

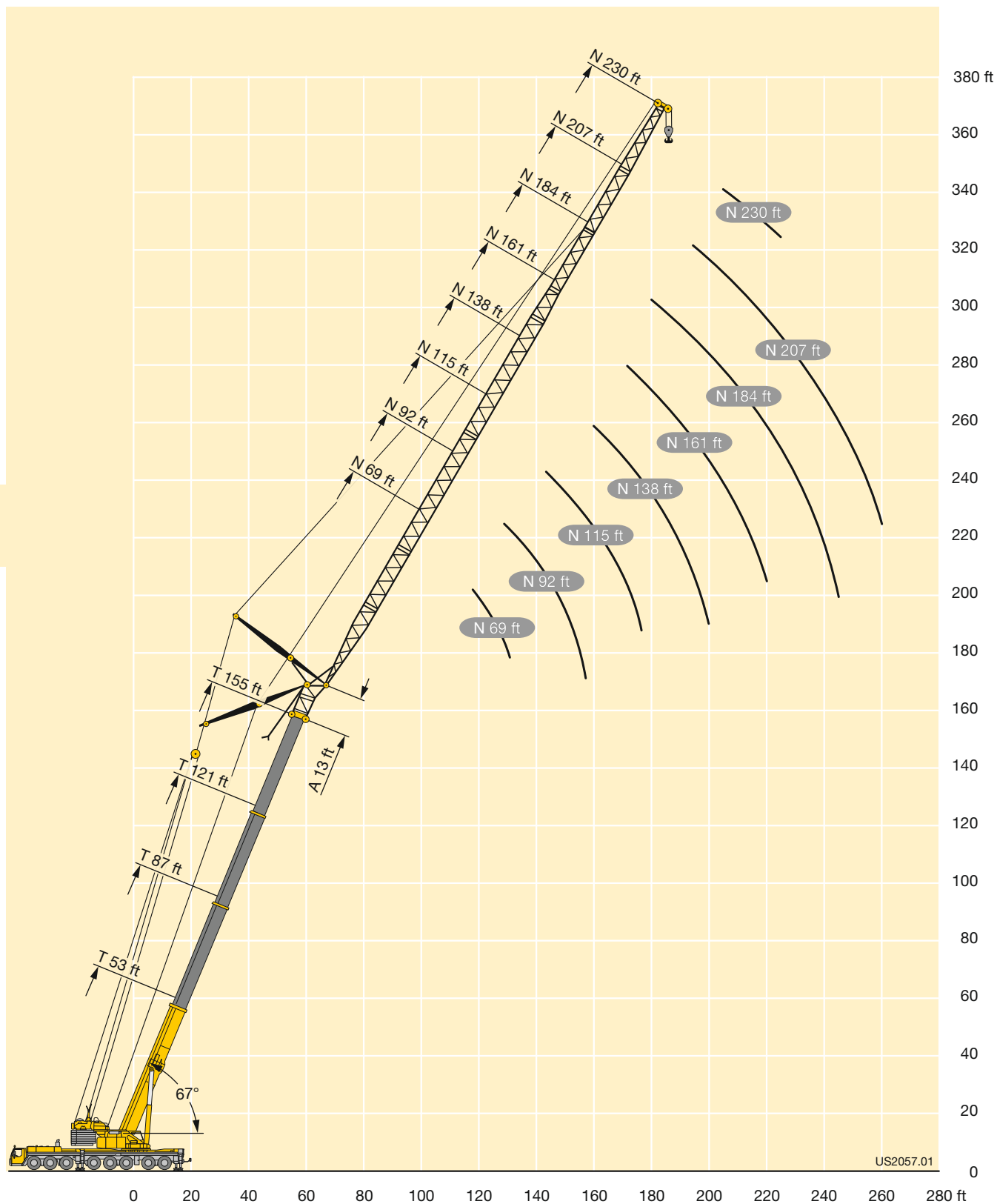


85%

	121 ft + 13 ft*											155 ft + 13 ft*							189 ft + 13 ft*				223 + 13 ft*		
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	69 ft	92 ft	115 ft	138 ft	69 ft	
105	74																								105
110	70.5																								110
115	67.5																								115
120		62										40.6													120
125		59										38.5													125
130		56.4	54.8									36.5	33.3												130
135		54.4	53									32								19.7					135
140		52.6	50.7									30.3								19.1					140
145			48.6	46.8								28.7	27.4												145
150			46.6	44.8								27.3	25.9												150
155			45.2	43	40.1							26.1	24.6								12.4			5.6	155
160			44	41.3	39.2								23.4	21.2							11.8			5.2	160
165				39.7	37.6								22.2	20							11.1	9.2			165
170				38.2	36.1	33.3							21.2	18.9	16.1						10.4	9.1			170
175				37.2	34.7	32							20.3	17.8	15.2						9.9	8.6			175
180				36.4	33.3	30.6	27.6							16.8	14.2	10.6						8.1	6.1		180
185				35.6	32	29.3	27.3							15.8	13.3	10.4						7.6	5.8		185
190				34.9	31.2	28.1	26							15	12.5	9.8						6.7	5		190
195					30.4	26.9	24.8	22.2						14.4	11.7	9.2	7						4.6		195
200					29.7	25.8	23.7	21.5						13.8	11	8.7	6.6						4.2		200
205					29	24.8	22.6	20.3	18.3						10.5	8.2	6.1	3.7					3.8		205
210						24.1	21.6	19.3	18.3						10.2	7.7	5.6	3.7					3.6		210
215						23.5	20.6	18.3	17.2						9.8	7.2	5.2	3.3					3.3		215
220						22.9	19.8	17.3	16.2	14.3					9.5	6.8	4.7	2.9							220
225						22.4	19.2	16.4	15.3	13.9						6.4	4.3	2.5							225
230						21.8	18.6	15.5	14.5	13						6.1	3.9								230
235						21.3	18.1	14.6	13.8	12.1	10.1					5.7	3.5								235
240							17.6	14	13	11.5	9.7					5.5	3.3								240
245							17	13.5	12.3	10.9	9.1					5.2	3								245
250							16.5	13.1	11.6	10.4	8.6							2.8							250
255							16.1	12.8	10.9	9.8	8.1							2.6							255
260								12.4	10.4	9.4	7.6							2.3							260
265								12.1	10.1	8.9	7.1														265
270								11.8	9.9	8.5	6.7														270
275								11.4	9.6	8.1	6.2														275
280								11.1	9.4	7.7	5.8														280
285									9.1	7.3	5.4														285
290									8.9	7	5														290
295									8.7	6.7	4.7														295
300									8.5	6.6	4.4														300
305										6.4	4.1														305
310										6.3	3.8														310
315										6.1	3.5														315
320										6	3.2														320
325										5.9	3														325
330											2.9														330
340											2.8														340

* adapter - pièce d'adaptateur

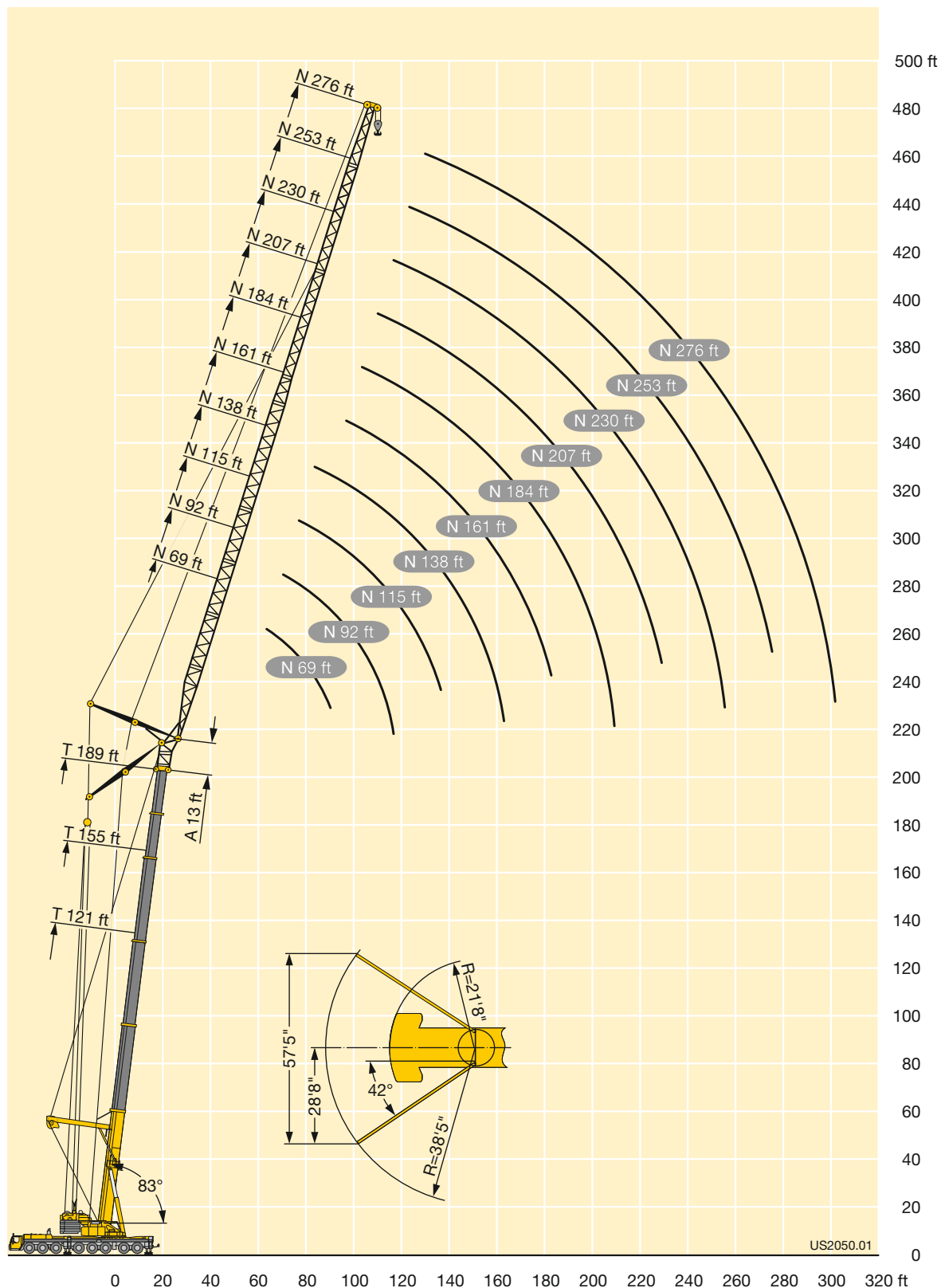
TAB 231253



Lifting heights Hauteurs de levage



TY3N



K

Lifting capacities Forces de levage



TY3N

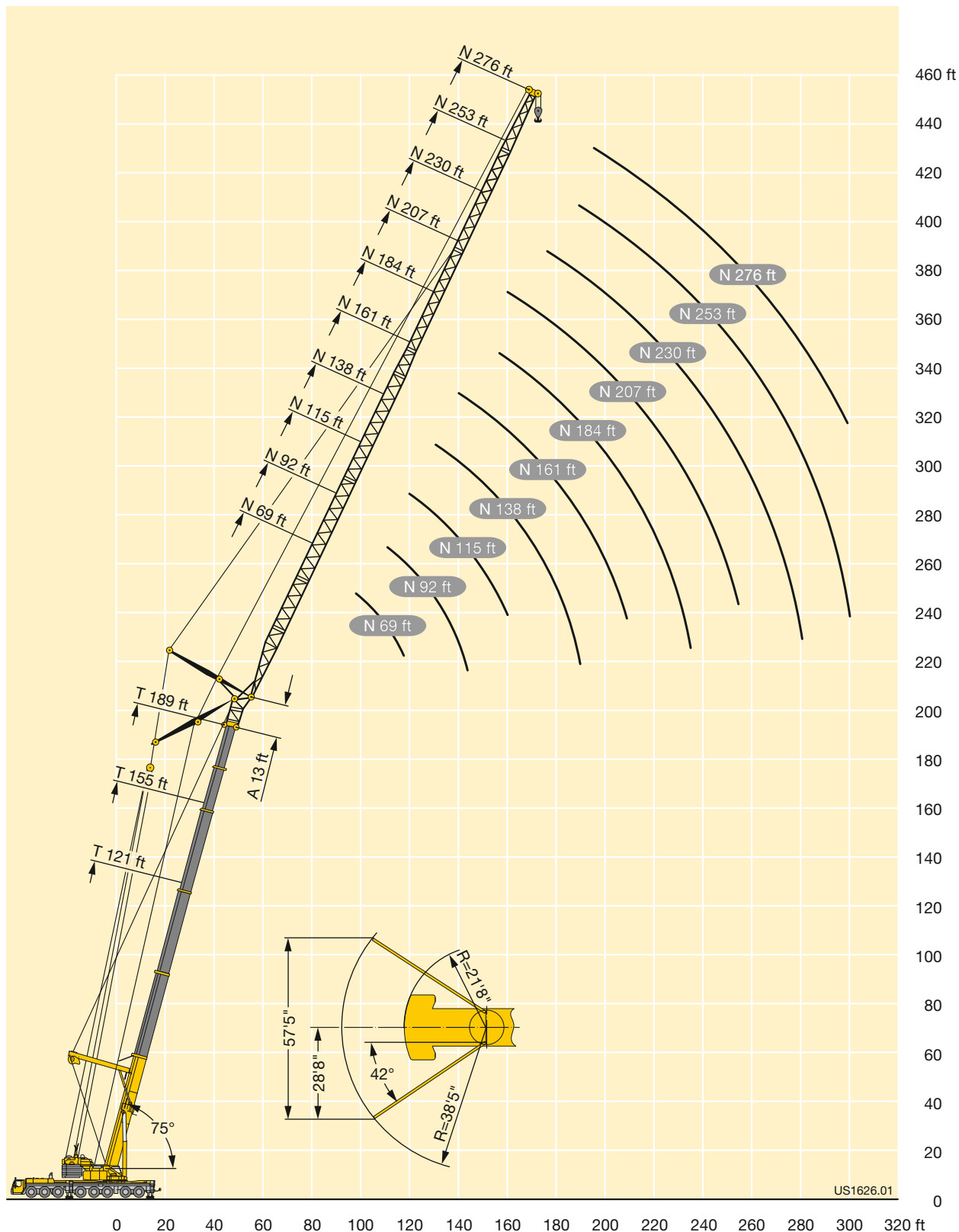


 ft	189 ft + 13 ft*										223 ft + 13 ft*						258 ft + 13 ft*					 ft	
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	69 ft	92 ft	115 ft	138 ft		161 ft
100	81																						100
105	76.5																						105
110	72.5	69.5									63.5												110
115	69	67									61.5												115
120		64	58.6								59	50.9						36.6					120
125		60.5	58.4								56.6	50.8						36.5					125
130		57.8	55.6	53.7							54.1	48.9						35.2					130
135		55.2	53	51.8								47.1	42.8					33.8	26.7				135
140		52.8	50.6	49.4	45.4							45.3	42.1						26.3				140
145			48.3	47.1	45.1							43.7	40.5						25.3				145
150			46.2	45.1	43.1							42.2	38.9	35.2					24.3	20.4			150
155			44.3	43.1	41.1	39							37.4	34	29.4				23.3	19.7			155
160			42.5	41.3	39.4	38.2	31.4						36	32.7	28.8				22.4	18.8	14.2		160
165				39.6	37.7	36.5	31.2						34.7	31.3	27.7					18	14		165
170				38	36.1	34.9	29.9						33.4	30.2	26.5	18.6				17.1	13.3	7.6	170
175				36.5	34.6	33.4	28.7	22.5					32.1	29	25.4	17.8	9.9			16.3	12.5	7.2	175
180				35	33.2	32	27.5	22						28	24.4	16.9	9.6			15.5	11.9	6.8	180
185				33.6	31.8	30.7	26.3	20.9						26.9	23.5	16	9.1				11.3	6.4	185
190				32.3	30.5	29.4	25.2	20	16					25.9	22.6	15.1	8.6				10.9	6	190
195					29.3	28.3	24.2	19	15.3	10.5				24.9	21.7	14.4	8.1				10.4	5.6	195
200					28.2	27.1	23.2	18.1	14.5	10.2					20.8	13.7	7.7				9.9	5.2	200
205					27.1	26	22.3	17.2	13.8	9.6					20	13.1	7.2				9.5	4.9	205
210						25	21.4	16.4	13	9.2					19.2	12.6	6.8					4.5	210
215						24	20.6	15.8	12.3	8.6					18.4	12	6.4					4.2	215
220						23.1	19.8	15.1	11.6	8.2					17.7	11.5	6					3.9	220
225						22.2	19	14.5	11	7.7						10.9	5.6					3.6	225
230						21.3	18.2	13.9	10.6	7.3						10.4	5.2						230
235						20.5	17.4	13.2	10.1	6.8						9.9	4.9						235
240							16.7	12.7	9.7	6.4						9.5	4.6						240
245							16	12.1	9.2	6.1							4.2						245
250							15.4	11.5	8.8	5.7							3.9						250
255							14.9	11	8.4	5.3							3.5						255
260								10.4	8	5							3.3						260
265								10	7.6	4.6							3						265
270								9.6	7.2	4.3													270
275								9.3	6.8	4													275
280								8.9	6.4	3.7													280
285									6.1	3.4													285
290									5.8	3													290
295									5.6	2.8													295
300									5.3	2.5													300

* adapter · pièce d'adaptateur

TAB 231261

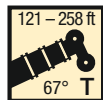
K



Lifting capacities Forces de levage



TY3N



85%

	121 ft + 13 ft*										155 ft + 13 ft*												
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
100	80																						100
105	80																						105
110	75.5																						110
115	72	67.5																					115
120		66										58											120
125		63										55.2											125
130		60	57.5									52.6	49.7										130
135		57.4	55.6									48											135
140		54.8	53.1	49.7								45.8											140
145			50.7	49.4								43.7	41.9										145
150			48.6	47.2								41.8	40.1										150
155			46.6	45.2	42.8							40.1	38.3										155
160			44.7	43.4	41.9								36.7	35.4									160
165				41.6	40.1								35.1	33.8									165
170				39.9	38.4	37							33.6	32.3	30.1								170
175				38.3	36.9	35.6							32.3	31	29								175
180				36.9	35.4	34.2	31.7							29.7	27.7	25.5							180
185				35.5	34	32.8	31.3							28.5	26.5	25.2							185
190				34.1	32.7	31.5	30							27.3	25.3	24.1							190
195					31.4	30.3	28.8	27.5						26.2	24.3	23	21.1						195
200					30.2	29.1	27.6	26.8						25.1	23.3	22	20.5						200
205					29.1	27.9	26.5	25.7	23						22.3	21.1	19.5						205
210						26.9	25.5	24.6	23						21.3	20.2	18.6						210
215						25.8	24.5	23.6	22						20.5	19.3	17.8	16.7					215
220						24.9	23.5	22.7	21.1	19.2					19.7	18.4	16.9	16.1					220
225						23.9	22.6	21.7	20.2	18.8						17.7	16.2	15.3	13				225
230						23	21.7	20.8	19.3	18						16.9	15.4	14.6	13				230
235						22.2	20.9	20	18.5	17.1	15.6					16.2	14.7	13.9	12.3				235
240							20.1	19.2	17.7	16.4	15					15.5	14	13.2	11.7	10.4			240
245							19.3	18.4	16.9	15.6	14.2					14.8	13.4	12.6	11.3	10.2			245
250							18.6	17.7	16.2	14.9	13.5							12.8	12	10.8	9.7		250
255							17.9	17	15.5	14.2	12.8							12.2	11.6	10.3	9.3	8.6	255
260								16.3	14.8	13.5	12.2							11.8	11.1	9.9	8.9	8.2	260
265								15.7	14.1	12.9	11.7							11.4	10.7	9.5	8.4	7.7	265
270								15	13.5	12.3	11.2								10.3	9.1	8	7.3	270
275								14.4	12.9	11.8	10.8								9.9	8.7	7.6	6.8	275
280								13.8	12.4	11.4	10.3								9.5	8.3	7.2	6.4	280
285									11.9	10.9	9.9								9.1	7.9	6.8	6	285
290									11.5	10.5	9.5								8.8	7.6	6.4	5.5	290
295									11.1	10.1	9.1								8.4	7.2	6	5.1	295
300									10.7	9.7	8.7									6.9	5.7	4.8	300
305										9.4	8.4									6.6	5.3	4.4	305
310										9	8									6.3	4.9	4	310
315										8.7	7.7										4.6	3.7	315
320										8.3	7.3										4.3	3.3	320
325										8	7										4	3	325
330											6.7										3.7		330
340											6.1										3.1		340

* adapter · pièce d'adaptateur

TAB 231264

K

Lifting capacities Forces de levage



TY3N

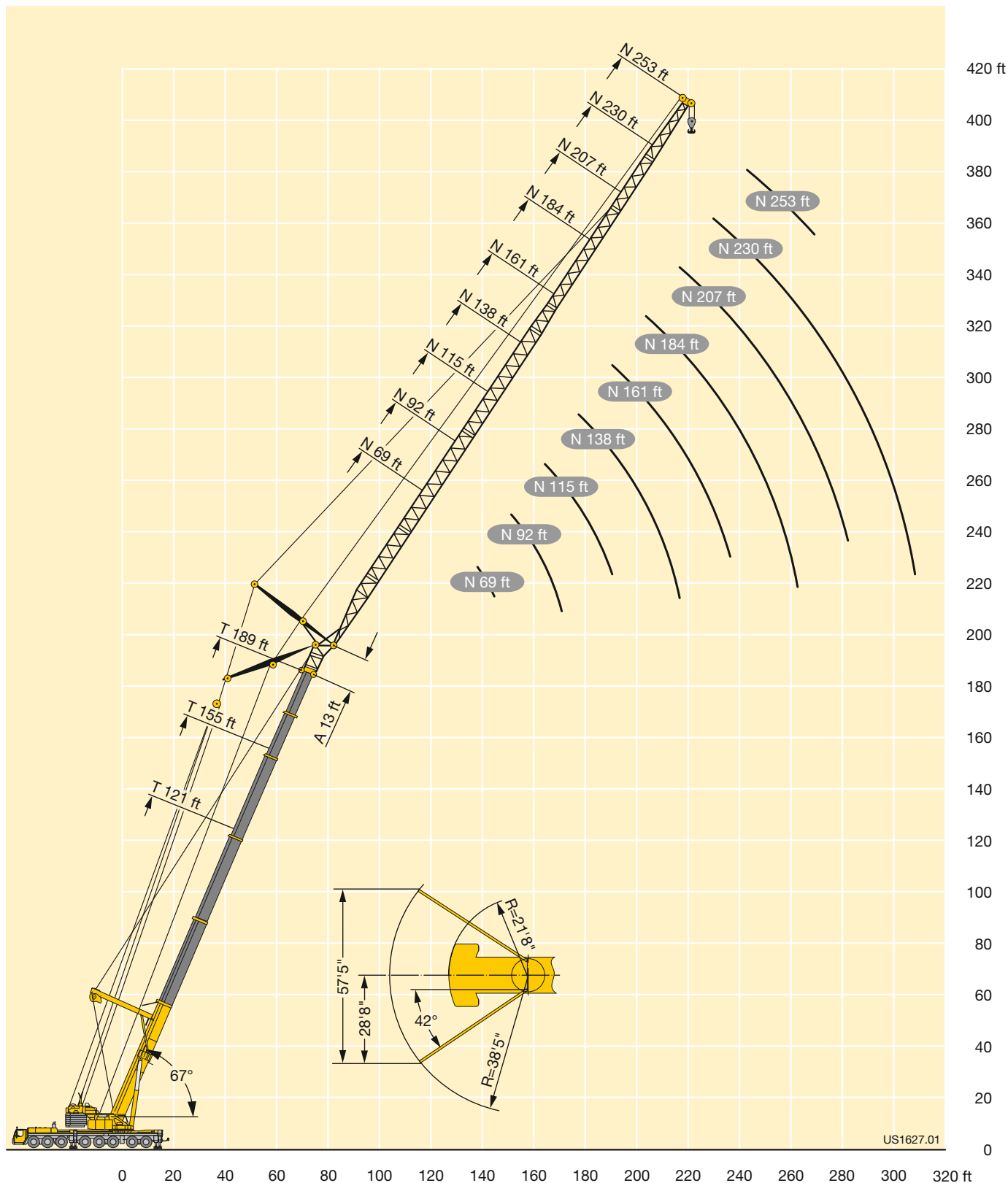


ft	189 ft + 13 ft*									223 ft + 13 ft*						258 ft + 13 ft*			ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	69 ft	92 ft	115 ft	
135	41.9																		135
140	41																		140
150		35.3								30.8									150
155		34.1								29.7									155
160		32.6	29.2								25.6								160
165		31.1	28.9								25.4								165
170		29.8	27.6								24.2					20.8			170
175			26.4	24.7							23.2					20.1			175
180			25.3	24.1							22.1	19.2					12.6		180
185			24.2	23							19						12.5		185
190			23.2	22	19.9						18.1						12		190
195				21	19						17.2	15.7					11.5	6.9	195
200				20.1	18.1	16.3					16.4	15.3						6.7	200
205				19.2	17.3	16.1						14.5	10.7					6.4	205
210				18.4	16.5	15.3						13.8	10.7					6	210
215				17.6	15.7	14.5	12.5					13.1	10.3					5.7	215
220					15	13.8	12.2					12.5	9.8	4.2				5.5	220
225					14.3	13.1	11.7	7.9				12	9.4	4.1					225
230					13.6	12.4	11.2	7.9					9	3.8					230
235					13	11.9	10.7	7.5					8.6	3.4					235
240						11.5	10.3	7	4.2				8.2	3.1					240
245						11	9.8	6.6	4.1				7.9	2.8					245
250						10.6	9.4	6.3	3.7					2.6					250
255						10.2	9	5.9	3.4					2.3					255
260						9.8	8.7	5.5	3.1										260
265							8.3	5.1	2.8										265
270							7.9	4.8	2.4										270
275							7.5	4.5	2.2										275
280							7.1	4.1											280
285								3.8											285
290								3.5											290
295								3.3											295
300								3											300
305								2.7											305

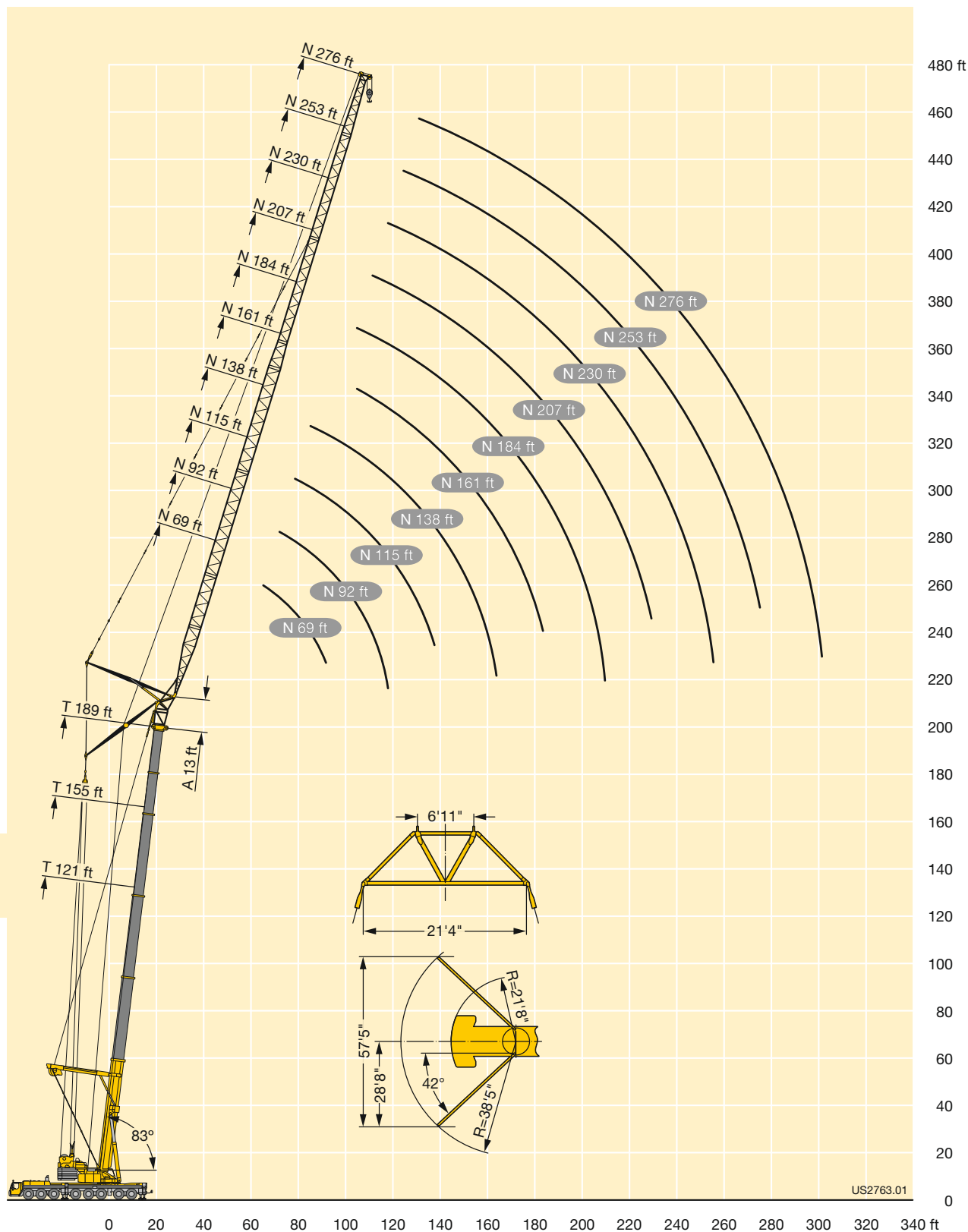
K

* adapter · pièce d'adaptateur

TAB 231264



K



Lifting capacities Forces de levage



TY3SN



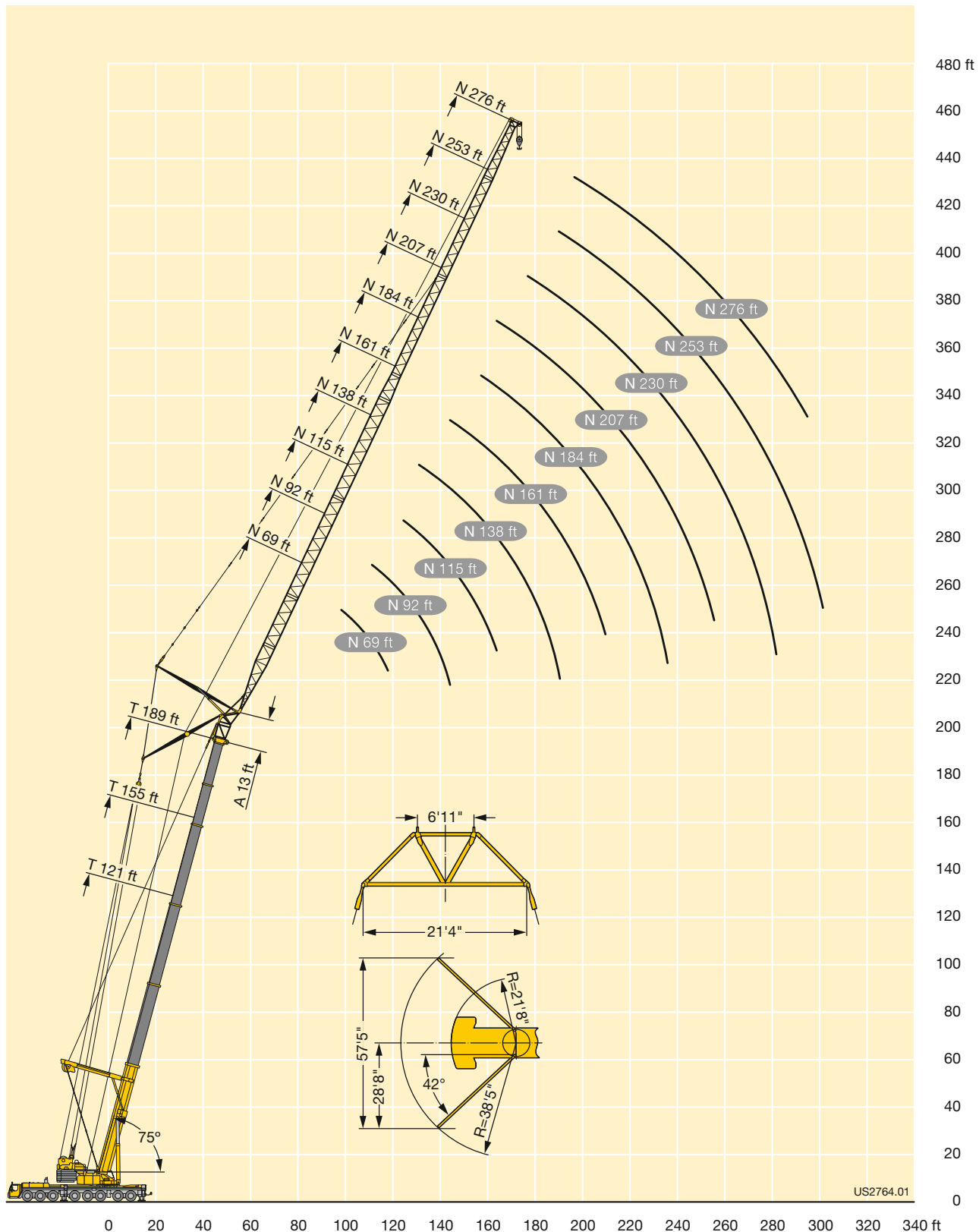
85%

ft	189 ft + 13 ft*										223 ft + 13 ft*							258 ft + 13 ft*					ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	69 ft	92 ft	115 ft	138 ft	161 ft	
100	88																						100
105	83.5																						105
110	80	76.5									63												110
115	76.5	74									61												115
120		70.5	66								58.8	49.8						35.5					120
125		67	65.5								56.5	49.6						35.4					125
130		64.5	63	56.9							54.3	47.6						34					130
135		62	60	55.2								45.6	41.4					32.6	26.2				135
140		59.3	57.6	52.9	45.9							43.8	40.7						25.8				140
145			55.1	50.8	45.6							42	39						24.7				145
150			52.8	48.8	43.8							40.4	37.4	33.6					23.6	18.5			150
155			50.7	47	42.1	38.8							35.9	32.5	28.1				22.6	17.8			155
160			48.7	45.3	40.4	38.1	31						34.5	31.1	27.5				21.6	16.8	12.1		160
165				43.7	38.8	36.5	30.8						33.2	29.8	26.3					15.9	12		165
170				42.1	37.4	35.1	29.5						31.9	28.6	25.1	16.6				15.1	11.3	5.9	170
175				40.7	36.1	33.6	28.2	21.5					30.7	27.4	24	15.8	8.2			14.3	10.7	5.6	175
180				39.2	34.8	32.3	27	20.9						26.4	23	14.9	7.9			13.5	10.2	5.2	180
185				37.9	33.6	31.1	25.8	19.8						25.3	22	14	7.4				9.6	4.8	185
190				36.8	32.4	30	24.7	18.8	14.7					24.3	21.1	13.1	6.9				9.2	4.4	190
195					31.2	28.9	23.6	17.8	13.9	9.9				23.3	20.2	12.4	6.4				8.7	4	195
200					30.1	27.9	22.6	16.8	13.2	9.5					19.4	11.8	6				8.2	3.7	200
205					29.1	26.8	21.7	15.9	12.4	9					18.5	11.3	5.5				7.8	3.5	205
210						25.8	20.8	15	11.7	8.5					17.7	10.7	5.1					3.2	210
215						24.8	20	14.4	11	8					17	10.3	4.8					2.9	215
220						23.9	19.1	13.7	10.4	7.5					16.2	9.8	4.5					2.7	220
225						23.1	18.3	13.1	9.8	7						9.3	4.2					2.4	225
230						22.3	17.5	12.6	9.3	6.6						8.8	3.8						230
235						21.7	16.7	12	8.9	6.2						8.4	3.6						235
240							16	11.4	8.4	5.8						8	3.3						240
245							15.3	10.9	8	5.4							3						245
250							14.7	10.3	7.6	5.1							2.7						250
255							14.2	9.8	7.2	4.8							2.5						255
260								9.3	6.8	4.5													260
265								8.8	6.4	4.2													265
270								8.5	6	3.9													270
275								8.2	5.6	3.6													275
280								7.9	5.3	3.3													280
285									4.9	3													285
290									4.7	2.8													290
295									4.4	2.5													295
300									4.2	2.2													300

* adapter · pièce d'adaptateur

TAB 231406

M



Lifting capacities Forces de levage



TY3SN



ft	189 ft + 13 ft*									223 ft + 13 ft*					258 ft + 13 ft*			ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	69 ft	92 ft	115 ft	138 ft	161 ft	69 ft	92 ft	115 ft	
135	47.9																	135
140	47																	140
145																		145
150		40.4								36.4								150
155		39								35.2								155
160		37.4	34.4								25.8							160
165		35.8	34.1								25.6							165
170		34.4	32.7								24.5				19.9			170
175			31.3	28.9							23.5				19.1			175
180			30	28.2							22.5	18.9				10.4		180
185			28.8	27.1								18.7				10.3		185
190			27.7	26	24.4							17.8				9.9		190
195				24.9	23.4							17.1	13.3			9.5	4.6	195
200				23.9	22.4	19.5						16.3	12.9				4.4	200
205				22.9	21.5	19.3							12.2	9.1			4.2	205
210				22	20.6	18.4							11.7	9.1			3.9	210
215				21.2	19.7	17.5	12.4						11.1	8.6			3.6	215
220					18.9	16.7	12						10.6	8.2			3.3	220
225					18.1	15.9	11.4	6.6					10.2	7.8				225
230					17.4	15.1	10.9	6.6						7.4				230
235					16.7	14.4	10.3	6.2						7				235
240						13.8	9.8	5.8	3.1					6.7				240
245						13.2	9.3	5.5	3					6.3				245
250						12.6	8.9	5.1	2.7									250
255						12.1	8.5	4.8	2.5									255
260						11.7	8.1	4.4	2.3									260
265							7.7	4.1										265
270							7.3	3.8										270
275							7	3.5										275
280							6.7	3.2										280
285								2.9										285
290								2.6										290
295								2.3										295

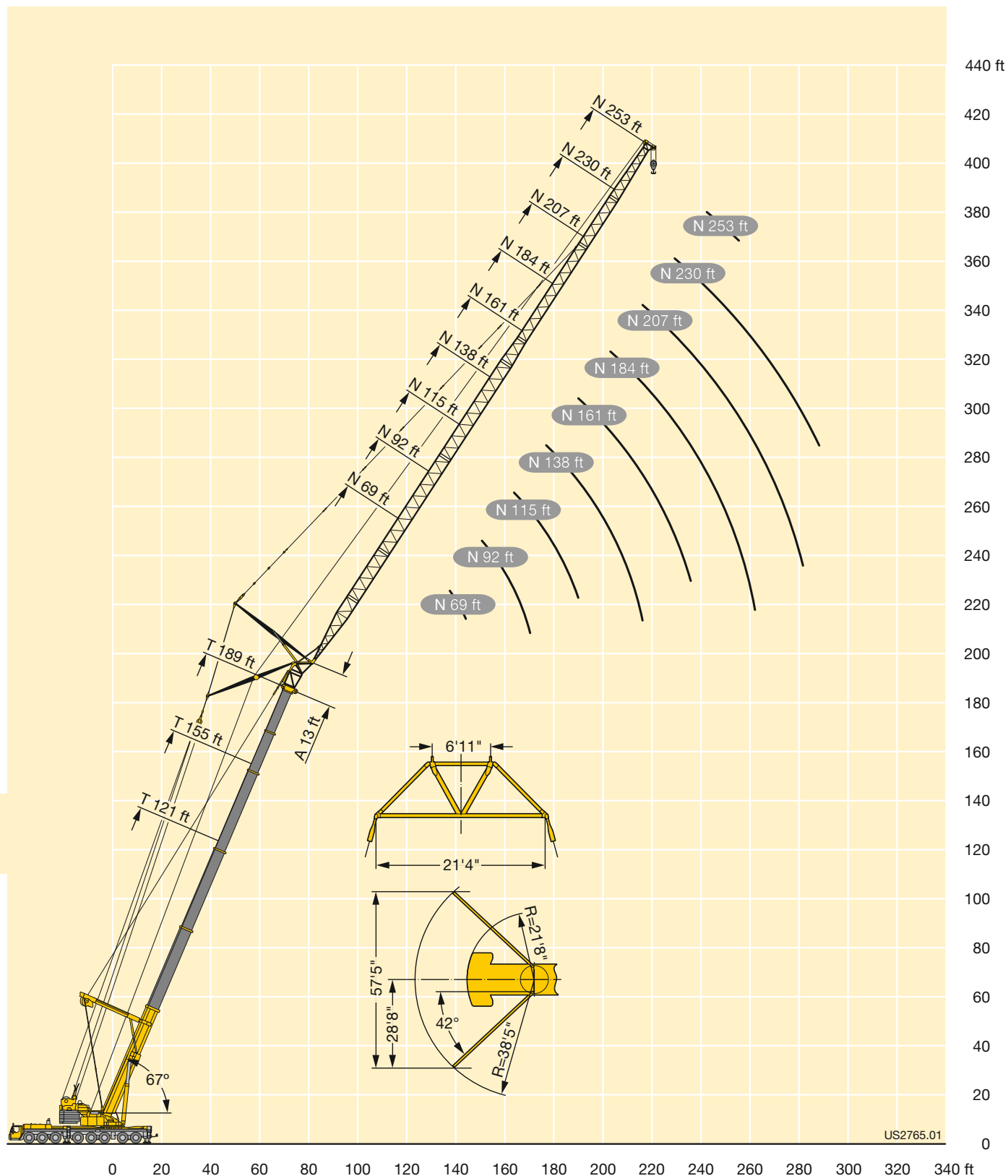
* adapter · pièce d'adaptateur

TAB 231409

M



M



Lifting capacities Forces de levage



TNZF



53 ft + 7 ft*																						
		20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		161 ft	184 ft		
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	0°	0°		
13	300																				13	
14	288																				14	
15	275																				15	
16	263				178																16	
17	252				174																17	
18	242	152			168			122													18	
20	222	150			156			121													20	
22	205	143			145			114			89.5										22	
24	190	136			135			107			87										24	
26	179	130	93.5		126			101			82			68							26	
28	169	124	91		117			95			78			65.5			54.2				28	
30	161	118	88.5		108			89.5			74			62			53.6				30	
32	153	114	86		102	71.5		84.5			70			59.3			51.2		41.3		32	
34	145	110	83.5		97	70		80			67			56.7			49.1		40.3		34	
36	139	106	81.5		93	67.5		75.5			63.5			54.2			47.1		38.7		36	
38	132	102	79.5		88.5	64.5		71.5			60.5			51.8			45.1		37.1	29.8	38	
40	125	99	78		84.5	62		67.5			57.5			49.5			43.2		35.5	29.5	40	
45	111	91	74		76	56.7	46.3	61	44.8		51.5			44.4			39.1		32.3	26.7	45	
50	98	84	70.5		68.5	52.4	44	55.6	41.8		46.6			40			35.4		29.4	24.3	50	
55	88.5	78	67.5		61.5	48.6	41.3	50.6	38.4		42.5	31.7		36.4			32.1		26.7	22.2	55	
60	81	73.5			55.1	45.2	39	46.1	35.4		38.9	29.1		33.5			29.2		24.3	20.2	60	
65	74.5	70			49.1	42.1	37.1	41.9	32.9	28.3	35.7	26.8		31	23.9		26.9		22.1	18.3	65	
70	69.5	67			44.7	39.2	35.4	38	30.8	26.9	32.8	24.8		28.6	22.3		25.1		20.3	16.6	70	
75					41.2	36.8	33.9	34.4	28.8	25.4	30	23		26.4	20.6		23.4	16.6	18.8	15.2	75	
80					38.3	34.8	32.6	31	27	24	27.4	21.5	18.5	24.3	19		21.8	16.3	17.5	13.9	80	
85					35.6	32.9	31.6	28.2	25.3	22.9	24.9	20.1	17.5	22.3	17.5		20.2	15.1	16.3	12.8	85	
90					33.3	31.6		26.2	23.6	21.9	22.6	18.9	16.5	20.5	16.3		18.7	13.9	15.1	11.9	90	
95					31.3	30.5		24.5	22.3	20.9	20.5	17.7	15.5	18.8	15.2		17.3	12.9	14.1	11	95	
100								22.9	21.1	20	18.6	16.6	14.7	17.1	14.3	11.6	16	11.9	13.1	10.1	100	
105								21.3	20	19.3	17.2	15.5	14	15.5	13.5	11	14.7	11.1	12.1	9.3	105	
110								20	19.1	18.8	16.2	14.5	13.4	13.9	12.7	10.4	13.4	10.4	11.2	8.5	110	
115								18.9	18.4		15.1	13.6	12.8	12.7	11.9	9.9	12.2	9.8	10.4	7.8	115	
120								17.9			14.2	12.9	12.2	11.8	11.2	9.5	11.1	9.3	9.5		120	
125											13.2	12.3	11.8	11.1	10.5	9	10	8.7	8.7		125	
130											12.3	11.8	11.4	10.5	9.8	8.6	9.1	8.2	7.8		130	
135											11.7	11.3		9.8	9.2	8.3	8.4	7.7	7		135	
140											11.2	11		9.2	8.8	7.9	7.9	7.2			140	
145														8.7	8.3	7.6	7.4	6.8			145	
150														8.1	7.9	7.3	6.9	6.3			150	
155														7.7	7.6	7.1	6.5	6			155	
160														7.3	7.3		6.1	5.6			160	
165														6.9			5.7				165	
170														6.6			5.3				170	
175																	5				175	
180																	4.7				180	
185																	4.4				185	
190																	4.1				190	

* adapter · pièce d'adaptateur

** optional · en option

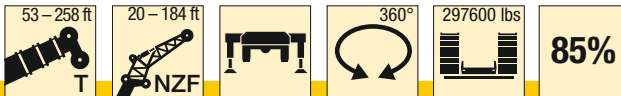
TAB 231316 / 231317 / 231318

N

Lifting capacities Forces de levage



TNZF



189 ft + 7 ft*																					
		20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		161 ft	184 ft	
ft	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	0°	0°	ft	
38	103																			38	
40	103																			40	
45	95																			45	
50	88.5	92.5	82.5	79																50	
55	83	82	80.5	70.5	58.5															55	
60	77.5	76.5	76.5	66	58.1															60	
65	72.5	72	72	62.5	56.1															65	
70	68	67.5	67.5	58.7	54.2	40.9	51	36.5												70	
75	64	63.5	63.5	55.4	52.3	40.3	48.3	35.8												75	
80	60	59.6	60	52.2	50.5	39.4	45.8	34.6												80	
85	56.6	56.1	56.5	49.1	48.9	38.5	43.4	33.3												85	
90	53.4	52.9	53.3	46.4	46.7	37.7	41.1	32.2	25.2	33.7	24.8									90	
95	50.4	50	50.4	43.8	44.4	36.9	38.8	31.1	24.9	32.4	23.9									95	
100	47.6	47.2	47.6	41.5	42	36.2	36.7	30.1	24.3	31.1	23	16.1	23.8	17.4						100	
105	45	44.6	44.9	39.2	39.8	35.5	34.7	29.1	23.7	30	22.2	16.1	22.8	16.7						105	
110	42.5	42.2	42.4	37.2	37.7	34.8	32.8	28.2	23.2	28.8	21.4	15.7	22	16						110	
115	40	39.8	39.9	35.2	35.8	34.2	31.1	27.3	22.7	27.5	20.7	15.3	21.1	15.4						115	
120	37.4	37.5	37.5	33.3	33.9	33.5	29.5	26.6	22.2	26.1	19.9	14.9	20.4	14.8	10.3					120	
125	34.9	35.1	35.2	31.5	32.1	32.4	28	25.9	21.8	24.8	19.3	14.6	19.6	14.3	10.3					125	
130	32.5	32.7	33	29.8	30.5	30.6	26.5	25.2	21.3	23.5	18.7	14.2	18.9	13.7	10.1					130	
135	30.1	30.2	30.7	28.2	28.8	28.9	25.1	24.6	21	22.3	18.1	13.9	18.3	13.2	9.8					135	
140	27.7	27.8	28.5	26.5	27.2	27.2	23.7	23.9	20.6	21.1	17.6	13.6	17.7	12.7	9.6					140	
145	25.3	25.6	26.4	24.8	25.5	25.7	22.4	23.2	20.3	19.9	17.1	13.3	17.1	12.3	9.4					145	
150	23.2	23.7	24.4	23.1	23.9	24.1	21.1	22.1	20	18.9	16.6	12.9	16.3	11.9	9.2					150	
155	21.5	21.9	22.6	21.4	22.4	22.7	19.9	20.8	19.8	17.8	16.2	12.7	15.4	11.6	8.9					155	
160	19.9	20.2	20.8	19.7	20.9	21.3	18.7	19.6	19.4	16.8	15.7	12.5	14.6	11.3	8.7					160	
165	18.4	18.6		17.9	19.4	19.9	17.4	18.4	18.9	15.8	15.3	12.3	13.7	11	8.5					165	
170	17	17		16.4	17.9	18.6	16.1	17.3	18	14.8	14.9	12.2	12.9	10.7	8.3					170	
175	15.6	15.6		15.2	16.6	17.3	14.8	16.1	17	13.9	14.5	12	12.1	10.4	8.2					175	
180	14.3	14.4		14.2	15.3		13.6	15	15.9	13	14.1	11.8	11.3	10.1	8					180	
185	13	13.3		13.1	14		12.4	13.9	14.9	12	13.5	11.7	10.5	9.9	7.9					185	
190	11.7	12.2		12.1	12.8		11.3	13.1	13.9	11	12.8	11.5	9.8	9.6	7.8					190	
195	10.7	11.2		11.1	11.7		10.4	12.1	13.1	10	12	11.4	9.1	9.4	7.7					195	
200	9.9			10.1	10.7		9.4	11.2		9	11.2	11.2	8.3	9.1	7.5					200	
205				9.1	9.8		8.6	10.2		8.1	10.4	10.9	7.6	8.9	7.4					205	
210				8.1	8.9		7.7	9.3		7.3	9.7	10.3	6.8	8.6	7.3					210	
215				7.1	8		6.9	8.3		6.5	8.8	9.6	6	8.1	7.2					215	
220				6.4			6.1	7.4		5.8	8	8.9	5.3	7.6	7.1					220	
225							5.3	6.5		5	7.1		4.7	7	7					225	
230							4.5	5.6			6.3		4.2	6.3	6.9					230	
235							3.8	4.8			5.4		3.8	5.7	6.6					235	
240											4.7			5	6					240	
245														4.2	5.3					245	
250															4.5					250	
255															3.6					255	
260																				260	
265																				265	
270																				270	
275																				275	

* adapter · pièce d'adaptateur
** optional · en option

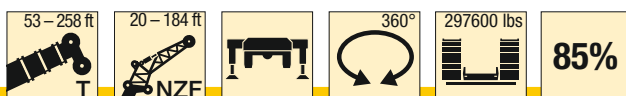
TAB 231316 / 231317 / 231318

N

Lifting capacities Forces de levage



TNZF



223 ft + 7 ft*																						
		20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		161 ft	184 ft		
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	0°	0°		
45	ft	70.5																			45	ft
50		66.5	64.5																		50	
55		62.5	62.5	59.8	52.4																55	
60		58.5	58.8	59.1	49.5			42.1			35.6										60	
65		55	55.2	55.8	46.7	46.3		39.8			33.6			28.5							65	
70		51.9	52.1	52.6	44.1	44.2		37.8			31.9			27.2							70	
75		48.9	49.1	49.5	41.7	42	38.5	35.9	32.7		30.3			25.9			20.7			10.6	75	
80		46.1	46.3	46.7	39.5	40	38.2	34.1	32.5		28.8			24.6			19.9		14.6	10.5	80	
85		43.4	43.6	44.1	37.4	38	37.4	32.4	31.6		27.4			23.4			19.1		13.9	9.9	85	
90		40.8	41.1	41.6	35.4	36.2	36.2	30.7	30.6		26.2	22.9		22.4			18.4		13.3	9.4	90	
95		38.4	38.8	39.2	33.4	34.4	34.7	29.2	29.5	23.7	24.9	22.5		21.4			17.7		12.8	8.9	95	
100		36.2	36.5	37	31.5	32.6	33.2	27.6	28.2	23.6	23.7	21.8		20.4	15.6		17		12.2	8.4	100	
105		34.1	34.4	34.8	29.6	30.8	31.7	26.1	27	23.1	22.4	21.2		19.5	15.6		16.3		11.7	8	105	
110		32.2	32.4	32.8	27.9	29.1	30.1	24.6	25.8	22.7	21.2	20.6		18.6	15.1		15.6		11.3	7.6	110	
115		30.3	30.6	30.9	26.3	27.5	28.6	23.1	24.6	22.3	20	19.9	14.6	17.7	14.7		14.9	10.5	10.9	7.2	115	
120		28.6	28.8	29.1	24.8	25.9	27	21.7	23.4	21.9	18.8	19.3	14.5	16.8	14.2		14.2	10.4	10.4	6.9	120	
125		26.9	27.1	27.4	23.4	24.4	25.5	20.4	22.2	21.5	17.6	18.8	14.2	15.9	13.8		13.5	10.1	10	6.5	125	
130		25.4	25.5	25.8	22	23	24.1	19.2	20.9	21.1	16.5	18.2	13.9	14.9	13.3		12.8	9.8	9.6	6.2	130	
135		23.8	24	24.2	20.7	21.7	22.7	18	19.7	20.7	15.4	17.6	13.6	13.9	12.9	9.4	12.1	9.5	9.1		135	
140		22.4	22.5	22.7	19.5	20.4	21.3	16.9	18.5	20.1	14.4	16.9	13.4	12.9	12.5	9.4	11.3	9.2	8.6		140	
145		20.9	21.1	21.3	18.3	19.2	20.1	15.8	17.4	19.2	13.4	16.1	13.1	12.1	12.1	9.2	10.4	8.9	8		145	
150		19.6	19.7	19.9	17.2	18	18.9	14.7	16.3	18.2	12.5	15.1	12.9	11.2	11.7	9	9.7	8.6	7.3		150	
155		18.3	18.3	18.5	16.1	16.9	17.7	13.7	15.3	17.1	11.6	14.2	12.7	10.4	11.4	8.8	8.9	8.4	6.6		155	
160		17	17	17.2	15	15.8	16.5	12.7	14.3	16	10.8	13.3	12.4	9.7	11	8.6	8.2	8.1	6		160	
165		15.7	15.7	15.9	13.9	14.7	15.4	11.8	13.3	15	9.9	12.4	12.2	8.9	10.7	8.5	7.5	7.9			165	
170		14.4	14.6	14.9	12.9	13.7	14.4	10.8	12.4	14	9.1	11.5	12	8.2	10.3	8.3	6.9	7.6			170	
175		13.1	13.5	13.9	11.9	12.7	13.3	10	11.5	13.1	8.3	10.7	11.9	7.5	9.6	8.1	6.2	7.4			175	
180		11.9	12.5	12.8	10.9	11.7	12.3	9.2	10.7	12.2	7.5	9.9	11.4	6.8	8.8	8	5.6	7.2			180	
185		10.9	11.3		10	10.8	11.4	8.4	9.8	11.3	6.8	9.2	10.6	6.1	8.1	7.9		6.9			185	
190		9.8	10.2		9.1	9.8	10.4	7.6	9	10.4	6.1	8.4	9.8	5.5	7.5	7.7		6.6			190	
195		8.8	9.1		8.1	9	9.6	6.8	8.2	9.6	5.4	7.7	9	4.9	6.8	7.6		6.1			195	
200		7.9	8.1		7.3	8.2		6.1	7.5	8.8	4.8	7	8.3		6.2	7.4		5.6			200	
205		6.9	7.2		6.4	7.4		5.4	6.7	8		6.3	7.5		5.5	7.1		5			205	
210		6	6.3		5.6	6.5			6	7.2		5.7	6.8		4.9	6.5					210	
215		5.1	5.4		4.8	5.7			5.3	6.5		5	6.1		4.4	5.8					215	
220		4.3	4.5		4.8				4.6	5.7		4.4	5.4			5.2					220	
225												4.8				4.6					225	

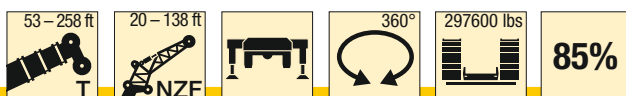
* adapter · pièce d'adaptateur
** optional · en option

TAB 231316 / 231317 / 231318

Lifting capacities Forces de levage



TNZF

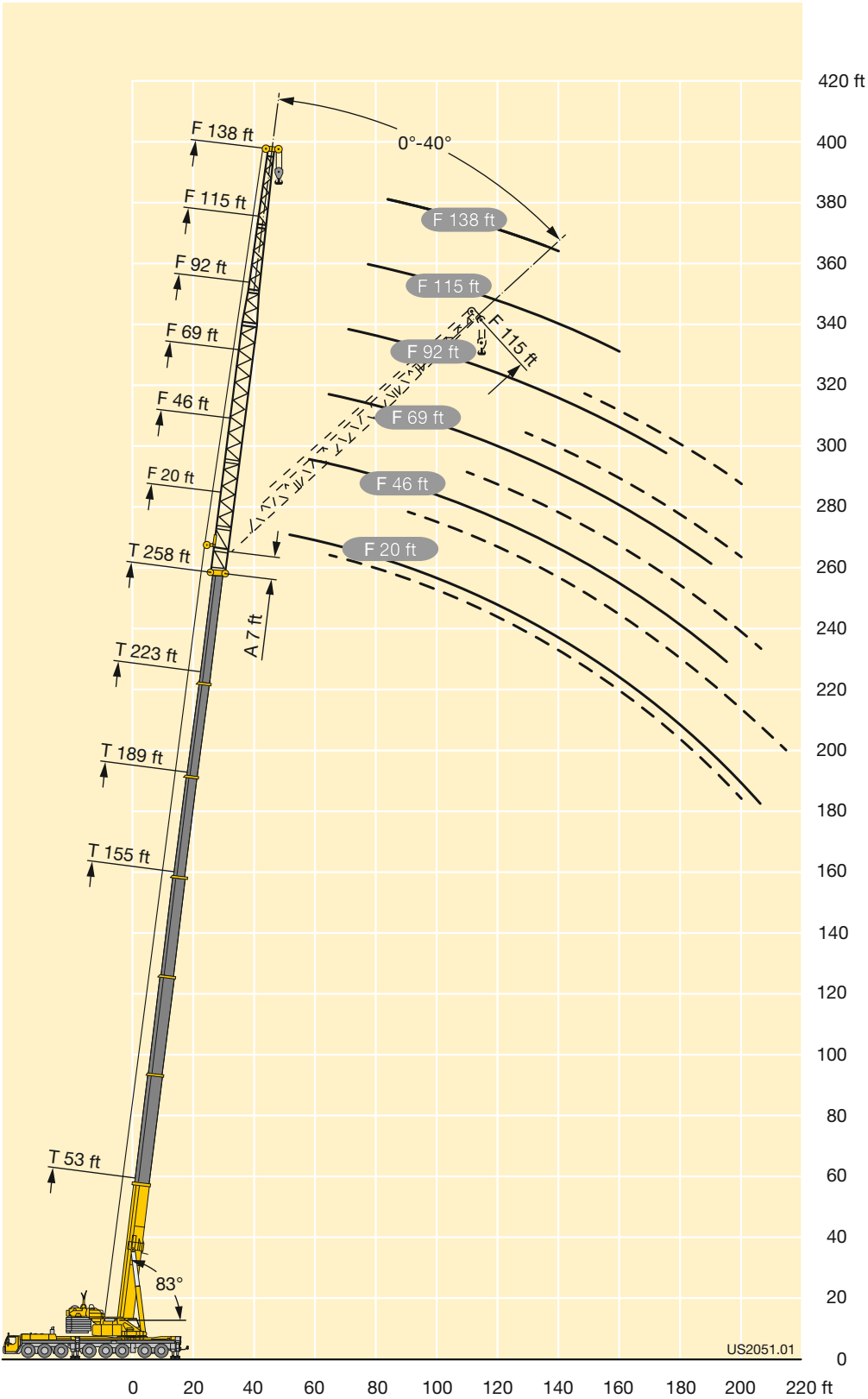


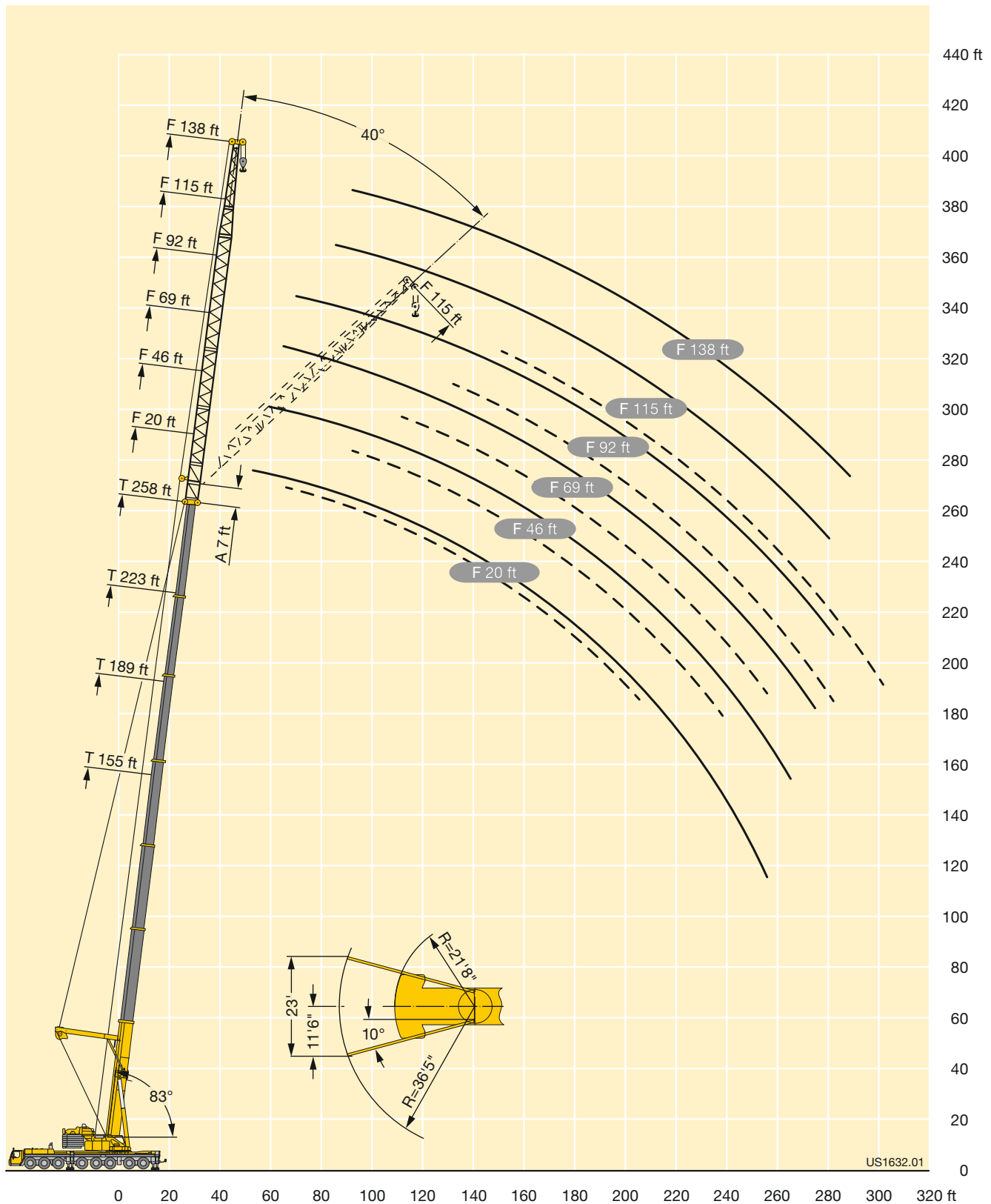
	258 ft + 7 ft*																	
	20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°		20°
50	47.2																	50
55	45.9	44																55
60	43.3	43.5		35.5														60
65	41	41.2	41.5	33.5			27.8											65
70	39	39.1	39.5	31.7			26.5											70
75	37	37.1	37.4	30.1	29.8		25.1			20.9								75
80	35.2	35.2	35.5	28.6	29.4		23.8			19.8			16.4					80
85	33.5	33.5	33.7	27.2	27.9		22.7			18.7			15.5			12.7		85
90	31.7	31.9	32.1	25.9	26.5	27	21.6	22.5		17.8			14.6			12		90
95	30	30.4	30.5	24.7	25.2	26.1	20.6	21.8		16.9			13.8			11.2		95
100	28.4	28.8	29.1	23.5	24	24.8	19.6	20.7		16	16.8		13.1			10.5		100
105	26.6	27.2	27.6	22.4	22.8	23.6	18.7	19.6		15.2	16.8		12.3			9.9		105
110	25	25.6	26.1	21.1	21.7	22.5	17.8	18.7	19.6	14.5	16		11.7			9.3		110
115	23.5	24.1	24.7	19.8	20.6	21.4	16.9	17.8	19	13.7	15.1		11	12.3		8.7		115
120	22.1	22.6	23.2	18.6	19.6	20.4	16.1	16.9	18.1	13	14.3		10.4	12.1		8.2		120
125	20.8	21.3	21.8	17.3	18.6	19.4	15.1	16	17.1	12.3	13.5		9.8	11.4		7.6		125
130	19.5	20	20.4	16.2	17.5	18.5	14.1	15.3	16.3	11.6	12.8	13.2	9.2	10.8		7.1	8.6	130
135	18.3	18.7	19.2	15.1	16.4	17.6	13.2	14.5	15.4	10.9	12.1	13	8.6	10.2		6.6	8.3	135
140	17.2	17.5	17.9	14.1	15.3	16.7	12.3	13.7	14.7	10.1	11.4	12.6	8.1	9.5		6.1	7.9	140
145	16.1	16.4	16.8	13.1	14.3	15.8	11.4	13	13.9	9.3	10.8	12	7.4	8.9			7.4	145
150	15	15.3	15.7	12.1	13.3	14.8	10.5	12.2	13.1	8.5	10.2	11.3	6.9	8.4	8.6		6.9	150
155	14	14.3	14.6	11.2	12.3	13.8	9.7	11.4	12.4	7.8	9.5	10.7	6.3	7.8	8.4		6.4	155
160	13	13.3	13.5	10.3	11.4	12.8	9	10.6	11.7	7.1	8.9	10	5.6	7.3	8.3		5.9	160
165	12	12.3	12.6	9.5	10.6	11.9	8.2	9.8	11	6.4	8.3	9.4		6.7	8		5.4	165
170	11.1	11.3	11.6	8.6	9.7	11	7.5	9	10.3	5.7	7.7	8.8		6.3	7.6		4.9	170
175	10.2	10.4	10.6	7.8	8.9	10.1	6.8	8.3	9.6	5.1	7.1	8.2		5.8	7			175
180	9.3	9.5	9.7	7	8.1	9.3	6.1	7.6	8.8		6.4	7.7		5.2	6.5			180
185	8.4	8.6	8.8	6.3	7.4	8.5	5.4	6.9	8		5.8	7.1			6			185
190	7.6	7.8	8	5.6	6.6	7.7	4.7	6.2	7.3		5.1	6.6			5.5			190
195	6.7	7	7.2	4.9	5.9	7		5.5	6.5		4.5	6			5.1			195
200	6	6.3	6.5		5.2	6.3		4.8	5.8			5.4			4.6			200
205	5.3	5.6				5.5			5.2			4.7						205
210		4.9				4.8												210
215		4.2				4.3												215

* adapter · pièce d'adaptateur

** optional · en option

TAB 231316 / 231317 / 231318

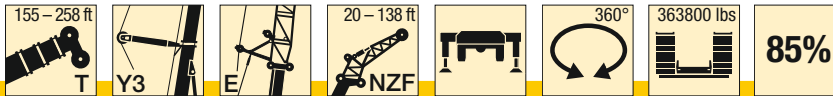




Lifting capacities Forces de levage



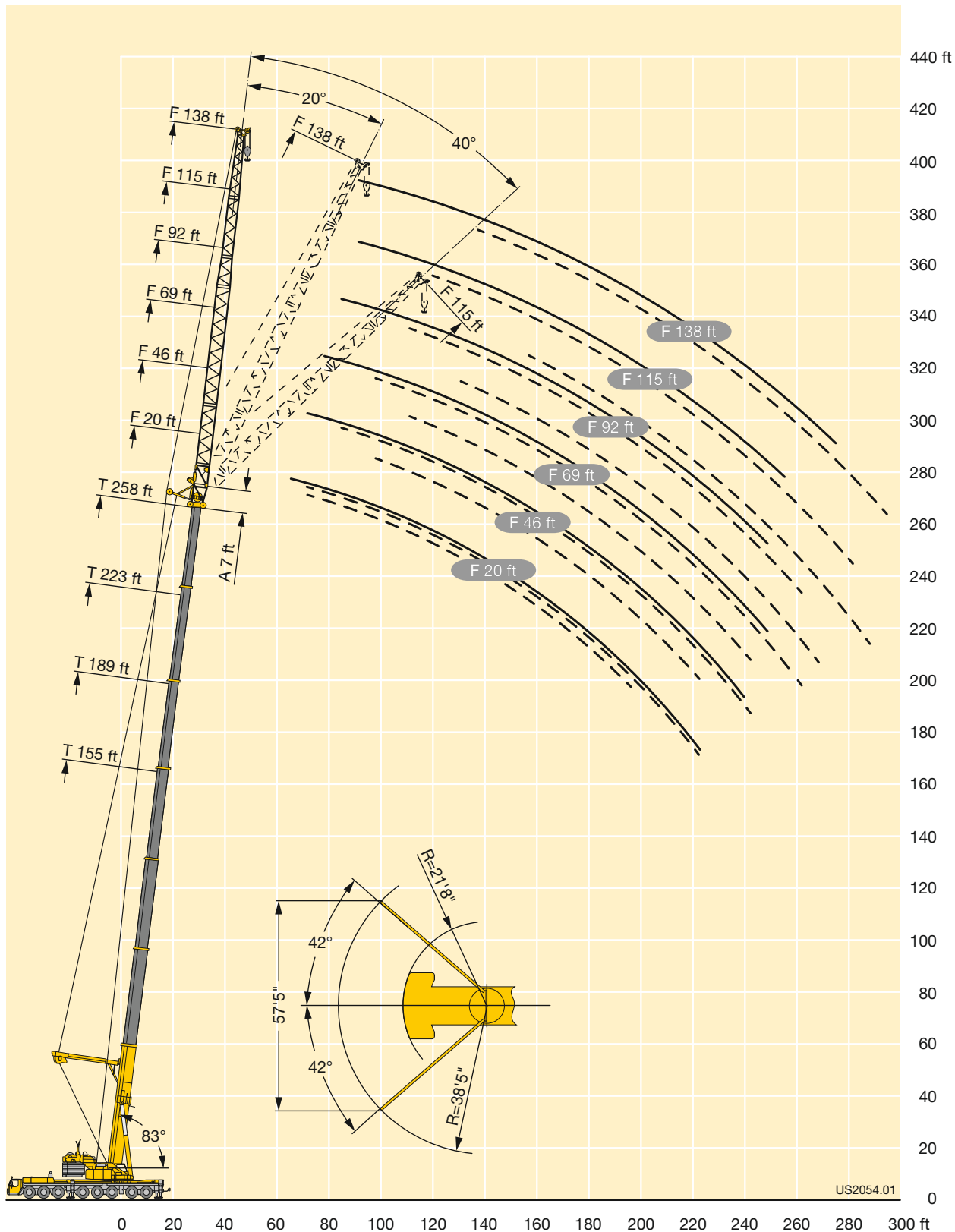
TY3ENZF



258 ft + 7 ft*																				
ft	20 ft**			46 ft			69 ft			92 ft			115 ft			138 ft		ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°			
65	85																	65		
70	82	76.5	73.5	67														70		
75	78.5	75	72	66			53.2											75		
80	75	72.5	70	63.5			52.8											80		
85	72	70	67.5	61.5	55.3		51			41.3								85		
90	68	67.5	65.5	59.3	53.7		49.4			40			33.5			30.2		90		
95	64.5	64.5	63.5	57.3	52.2	46.6	47.8	41		38.7			32.8			30		95		
100	61	62	61.5	55.5	50.7	46.5	46.3	40.8		37.5			31.7			29.5		100		
105	57.1	59.4	59.2	53.8	49.2	46.1	44.8	40		36.2			30.7			28.6		105		
110	54.2	56.4	56.7	52.1	47.8	45.2	43.4	39	28.4	35.1	25.5		29.7			27.7		110		
115	51.3	53.5	54.1	50.3	46.5	44.3	42.1	38	28.4	34	25.3		28.8			26.9		115		
120	48.5	50.4	51.5	48.5	45.3	43.4	40.8	37	28.4	32.9	25		27.8	19.6		26.1		120		
125	45.7	47.4	48.8	46.7	44	42.4	39.5	35.9	28.4	32	24.7		26.9	19.6		25.2		125		
130	42.8	44.4	46	44.8	42.8	41.3	38.4	35	28.5	31	24.5	16.4	26.1	19.3		24.4		130		
135	40.3	41.8	43.2	42.9	41.7	40.3	37.3	34.1	28.5	30	24.2	16.4	25.4	19		23.7	16.2	135		
140	38	39.5	40.6	41	40.7	39.3	36.2	33.2	28.5	29.1	23.9	16.4	24.6	18.7		23	16.1	140		
145	36	37.3	38.2	39.1	39.6	38.4	35.2	32.3	28.6	28.3	23.7	16.4	23.8	18.5		22.4	15.8	145		
150	34	35	36	37.3	38.6	37.5	34.1	31.5	28.6	27.5	23.4	16.5	23	18.3	11.5	21.7	15.5	150		
155	31.9	32.8	33.8	35.4	37.6	36.6	33.1	30.8	28.6	26.7	23.2	16.5	22.3	18	11.5	21	15.3	155		
160	29.9	30.6	31.7	33.6	36.4	35.8	32	30	28.4	25.9	22.9	16.5	21.7	17.8	11.5	20.3	15.1	160		
165	27.8	28.5	29.5	31.7	35	34.8	30.8	29.3	27.9	25.1	22.7	16.6	21.1	17.6	11.5	19.8	14.8	165		
170	25.7	26.3	27.4	29.9	33.2	33.6	29.2	28.6	27.3	24.3	22.1	16.6	20.5	17.4	11.5	19.3	14.6	170		
175	23.5	24.2	25.2	28	31.4	32.1	27.7	27.9	26.7	23.5	21.6	16.7	19.8	17.2	11.5	18.7	14.4	175		
180	21.4	22.1	23.1	26.1	29.6	30.5	26.2	27	26.1	22.5	21.1	16.7	19.2	17	11.6	18.2	14.3	180		
185	19.2	20	21	24.2	27.8	29	24.6	26	25.5	21.2	20.5	16.7	18.6	16.7	11.6	17.6	14.1	185		
190	17	17.9	18.8	22.2	26	27.4	23.1	24.9	24.9	19.9	20	16.7	17.9	16.4	11.6	17.1	13.9	190		
195	14.9	15.9	16.6	20.1	24	25.8	21.5	23.9	24.1	18.7	19.5	16.7	17.1	16.1	11.7	16.5	13.7	195		
200	12.9	14		18.1	21.9	23.8	19.9	22.8	23.3	17.4	18.8	16.6	16.2	15.7	11.7	16	13.5	200		
205	11.2	12		16.1	19.7	21.6	18.1	21.7	22.5	16.2	18.1	16.6	15.4	15.4	11.7	15.5	13.3	205		
210	9.5	10.1		14	17.6	19.3	16.4	20.6	21.7	14.9	17.2	16.6	14.5	15.1	11.8	15.1	13.1	210		
215	7.8	8.1		12	15.5	17.1	14.7	19.1	20.9	13.6	16.4	16.1	13.7	14.8	11.8	14.7	12.9	215		
220	6.1	6.4		10.3	13.3	14.9	12.9	17.4	19.6	12.3	15.6	15.7	12.8	14.3	11.9	14.3	12.7	220		
225		5		8.8	11.3		11.2	15.6	17.9	10.9	14.7	15.2	12	13.9	11.9	13.8	12.5	225		
230				7.3	9.6		9.4	13.7	16	9.6	13.9	14.8	11.1	13.4	11.9	13.4	12.3	230		
235				5.9	7.9		7.8	12	14.1	8.3	12.8	14.3	9.8	12.9	11.8	12.4	12.1	235		
240				4.4	6.3		6.7	10.2	12.2	6.9	11.5	13.6	8.5	12.4	11.6	11.3	11.8	240		
245							5.7	8.5		5.6	10	12.5	7.3	11.9	11.3	10.2	11.5	245		
250							4.8	7.1			8.6	11	6	11.3	11.1	9.2	11.2	250		
255							3.9	6			7.3	9.6	4.7	10.5	10.8	8.2	10.8	255		
260								4.9			5.9	8.1		9.3	10.6	7.2	10.5	260		
265											4.5	6.6		8.1	9.8	6.3	10.2	265		
270														6.8	8.7	5.2	9.8	270		
275														5.6	7.5	3.9	8.8	275		
280														4.4	6.3		7.8	280		
285															5.2		6.7	285		
290																	5.7	290		
295																	4.5	295		
300																	3.3	300		

* adapter · pièce d'adaptateur
** optional · en option

TAB 232110 / 232119 / 232128



Crane carrier

Frame	Liebherr designed and manufactured, box-type, torsion resistant design of high-tensile fine grained structural steel.
Outriggers	Four hydraulically extendable sliding beams with hydraulic jacks and supporting pads. The front outrigger casing is mounted between axles 3 and 4 and the rear casing is located at the rear of the carrier. Supporting basis: 32'10" longitudinally x 31'6" transversally.
Engine	8-cylinder Diesel, make Liebherr, water-cooled, output 505 kW (686 h.p.), max. torque 2263 lbs-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96. Fuel reservoir: 158 gallons.
Transmission	Automatic transmission with torque converter and interarder fitted directly to the gear unit, manufactured by ZF, type TC -TRONIC with 12 forward and 2 reverse gears, transfer case with locking central differential.
Axles	Heavy-duty vehicle axles. All axles suspended. Axles 1 to 4 and 7 and 8 steered. Axles 1, 2, 4 and 5 are planetary axles.
Suspension	All axles with hydropneumatic suspension and automatic levelling system. Load equalization between the axle pairs. The suspension can be locked hydraulically.
Tyre equipment	16 tyres, all axles equipped with single tyres. Size of tyres: 385/95 R 25 (14.00 R 25).
Steering	ZF semi-integral power steering, dual circuit system with hydraulic servo-system and additional backing pump driven by an axle.
Brakes	Service brake: All-wheel servo-air brake, dual circuit system. Additional brakes: Retarder, TELMA-type eddy current brake. Hand brake: Spring-loaded, acting on all wheels of axles 4 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-made torsion resistant, welded construction of high-tensile structural steel, linked to carrier by a three-row roller slewing rim for 360° continuous rotation.
Crane engine	6-cylinder Diesel, make Liebherr, water-cooled, output 240 kW (326 h.p.), max. torque 1449 lbs-ft. Fuel reservoir: 74 gallons.
Crane drive	Diesel-hydraulic, with 4 axial piston variable displacement pumps, with servo-control and capacity control operating in closed circuit for hoisting, slewing and luffing of lattice jib, 3 axial piston pumps, operating in open circuit for luffing and telescoping.

Crane control	Two self-centering control levers (joy-sticks). Pedal switches for telescoping. Infinitely variable crane motions through displacement control of the hydraulic pumps. Additional working speed control by variation of the Diesel engine speed.
Hoist gear	Axial piston variable displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	2 differential hydraulic rams with nonreturn valve.
Slewing gear	2 slewing gears, consisting of hydraulic motor, planetary gear, slewing pinion and spring-loaded static brake each.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses.
Counterweight	297600 lbs total counterweight comprising 1 basic slab of 33040 lbs and 8 slabs of 33070 lbs each.
Telescopic boom	Variant 1: Boom length 53 ft to 164 ft, consisting of 1 base section and 3 hydraulic telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Variant 2: Boom length 53 ft to 276 ft, consisting of 1 base section and 6 hydraulic telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK.
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 frame with 2 rope winches, mountable to the 164 ft or 276 ft long telescopic boom, tiltable in transport condition.
Spacer S	To increase lifting capacity on the luffing lattice jib in conjunction with the Y-type guying system.
Eccentric E	To increase lifting capacity on the fixed lattice jib in conjunction with the Y-type guying system.
Additional ballast	2 additional counterweight slabs of 33070 lbs each for a total counterweight of 363800 lbs, required for the operation with guyed telescopic boom.
Telescopic boom extension	46 ft lattice section for extending the 164 ft long telescopic boom in order to mount the luffing or fixed lattice jib.
Lattice jibs	Fixed lattice jib 46 ft to 207 ft long, luffing lattice jib 69 m to 299 ft long.
2nd hoist gear	Axial piston variable displacement motor, Liebherr-made hoist drum with integrated planetary gear and spring-loaded static brake.
3rd hoist gear with luffing block	Axial piston variable displacement motor, Liebherr-made hoist drum with integrated planetary gear and spring-loaded static brake, required for operating the luffing jib.
Tyre equipment	16 tyres, size 445/95 R 25 (16.00 R 25) and 525/80 R 25 (20.5 R 25).
Other items of equipment available on request.	

Châssis porteur

Châssis	Fabrication Liebherr, construction en caisson indéformable, en acier à haute résistance à grains fins.
Stabilisateurs	Quatre poutres horizontales télescopiques, avec vérins hydrauliques de calage verticaux et patins. Les caissons de poutres de calage avants sont situés entre les essieux 3 et 4, et les caissons des poutres de calage arrières sont situés à l'arrière du châssis. Surface de calage: 32'10" en long et 31'6" travers.
Moteur	Moteur diesel, 8 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 505 kW (686 ch), couple max. 2263 lbs-ft. Emissions des gaz d'échappement conformes au directive (EU) 2016/1628, EPA/CARB ou ECE-R.96. Capacité du réservoir à carburant: 158 gallons.
Boîte de vitesse	Boîte automatique avec convertisseur de couple et ralentisseur, montés directement sur la boîte, de marque ZF, type TC-TRONIC avec 12 rapports AV et 2 AR, boîte de transfert avec blocage de différentiel.
Essieux	Essieux spéciaux pour grue. Les 8 essieux sont suspendus. Les essieux 1 à 4 et 7 et 8 sont directeurs. Les essieux 1, 2, 4 et 5 sont entraînés.
Suspension	Tous les essieux sont suspendus hydropneumatiquement avec mise à niveau et équilibrage entre essieux automatiques. Suspension blocable hydrauliquement.
Pneumatiques	16 roues à monte simple. Taille: 385/95 R 25 (14.00 R 25).
Direction	Direction semi-bloc ZF, à double circuit, assistée hydrauliquement, avec pompe auxiliaire entraînée par un essieu.
Freins	Frein de service: à double circuit assisté pneumatiquement, sur toutes les roues. Frein auxiliaire: par clapets sur échappement commandés avec le ralentisseur hydraulique, ralentisseur électrodynamique Telma. Frein de secours et frein à main: par cylindres à ressorts sur les essieux 4 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	Construction mécanosoudée en tôle d'acier à haute résistance à grains fins. Reliée au porteur par une couronne d'orientation à 3 rangées de rouleaux. Rotation totale 360°.
Moteur	Moteur diesel, 6 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 240 kW (326 ch), couple max. 1449 lbs-ft. Capacité du réservoir à carburant: 74 gallons.
Entraînement	Diesel hydraulique avec 3 pompes à débit variable servo commandées à régulation de puissance en circuit fermé pour les treuils et l'orientation. Quatre pompes à débit variable en circuit ouvert pour le relevage de flèche et le télescopage.

Commande	2 leviers à 4 directions avec rappel automatique au point mort. Commande au pied pour le télescopage. Commande des mouvements progressive en continu par variation de l'inclinaison des pompes et augmentation du régime moteur.
Treuil	Moteur hydraulique à cylindrée variable, treuil de marque Liebherr avec réducteur planétaire à frein d'arrêt à lamelles intégrées.
Relevage de flèche	2 vérins hydrauliques différentiels avec clapets anti-retour de sécurité.
Orientation	2 mécanismes d'orientation, composés d'un moteur hydraulique, d'un réducteur planétaire, d'un pignon d'orientation et d'un frein à lamelles.
Cabine de grue	Large champ de vision, vitrage de sécurité, équipement pour un confort idéal, cabine inclinable de 20° vers l'arrière.
Sécurités	Contrôleur de charge LICCON, système test, fin de course crochet haut, clapets de sécurité en cas de ruptures de flexibles.
Contrepoids	Total 297600 lbs, composé d'une plaque de base et 8 plaques de 33040 lbs unitaires.
Flèche télescopique	Variante 1: télescope de 53 ft à 164 ft, composé d'un élément de base et de 3 télescopes, télescopables hydrauliquement. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMATIK. Variante 2: télescope de 53 ft à 276 ft, composé d'un élément de base et de 6 télescopes, télescopables hydrauliquement. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMATIK.
Circuit électrique	Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.

Équipement optionnel

Haubannage de flèche Y	Composé du chevalet et de 2 treuils, montables sur flèche télescopique de 164 ft ou de 276 ft.
Haubannage S	Pour l'augmentation de la force de levage au niveau de la fléchette treillis à volée variable-haubannage Y.
Axe excentrique E	Pour l'augmentation de la force de levage au niveau de la fléchette treillis fixe-haubannage Y.
Contrepoids complémentaire	2 plaques complémentaires de 33070 lbs, pour une masse totale de 363800 lbs, pour travail en télescope haubané.
Rallonge de flèche télescopique	Éléments treillis de 46 ft pour rallongement de la flèche télescopique de 164 ft pour utilisation de la fléchette fixe ou de la fléchette à volée variable.
Fléchettes	Fléchette fixe de 46 ft à 207 ft; fléchette à volée variable de 69 ft à 299 ft.
Deuxième treuil	Moteur hydraulique à pistons axiaux à cylindrée variable, treuil Liebherr, avec réducteur planétaire intégré et frein d'arrêt à lamelles.
Troisième treuil avec train de mouflage	Moteur hydraulique à pistons axiaux à cylindrée variable, treuil Liebherr, avec réducteur planétaire intégré et frein d'arrêt à lamelles; troisième treuil nécessaire pour le relevage de la volée variable.
Pneumatiques	16 fois en taille 445/95 R 25 (16.00 R 25) et 525/80 R 25 (20.5 R 25).

Autres équipements supplémentaires sur demande.

Description of symbols Explication des symboles

General symbols · Symboles généraux

	Outriggers Calage		Driving speed Vitesse de translation
	Axle 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 graver 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 Y3 Haubanage de flèche Y3		Hydraulic lattice jib Fléchette treillis hydraulique
	Eccentric Axe excentrique		Luffing fly jib Fléchette treillis à volée variable
	Spacer Haubanage		Fixed lattice jib Fléchette treillis fixe

Remarks referring to load charts

1. The tabulated lifting capacities do not exceed 85% of the tipping load.
2. The crane's structural steelwork is in accordance with DIN 15018, part 3. Design and construction of the crane comply with DIN 15018, part 2, and with F. E. M. regulations.
3. The 85% overturning limit values take into account wind force 5 = wind speed 20 mph.
4. Lifting capacities are given in kips.
5. The weight of the hook blocks and hooks must be deducted from the lifting capacities.
6. Working radii are measured from the slewing centreline.
7. The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
8. Lifting capacities are subject to modifications.
9. Loads above 604,000 lbs at 164 ft telescopic boom / 577,600 lbs at 276 ft telescopic boom only with additional equipment.
10. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.

Remarques relatives aux tableaux des charges

1. Les forces de levage indiquées ne dépassent pas 85% de la charge de basculement.
2. La norme DIN 15018, 3ème partie est appliquée pour les charpentes. La construction de la grue est réalisée conformément à la norme DIN 15018, 2ème partie, et aux règles de la F. E. M.
3. A 85% de la charge de basculement, il a été tenu compte d'un vent de force 5 = vitesse de vent 20 mph.
4. Les forces de levage sont données en kips.
5. Les poids des moufles et crochets doit être soustrait des charges indiquées.
6. Les portées sont calculées à partir de l'axe de rotation.
7. Les forces indiquées pour la flèche télescopique s'entendent fléchette dépliable déposée.
8. Les forces de levage sont modifiables sans préavis.
9. Capacités de charge supérieures à 604,000 lbs pour flèche télescopique de 164 ft / 577,600 lbs pour flèche télescopique de 276 ft seulement avec dispositif additionnel.
10. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.