

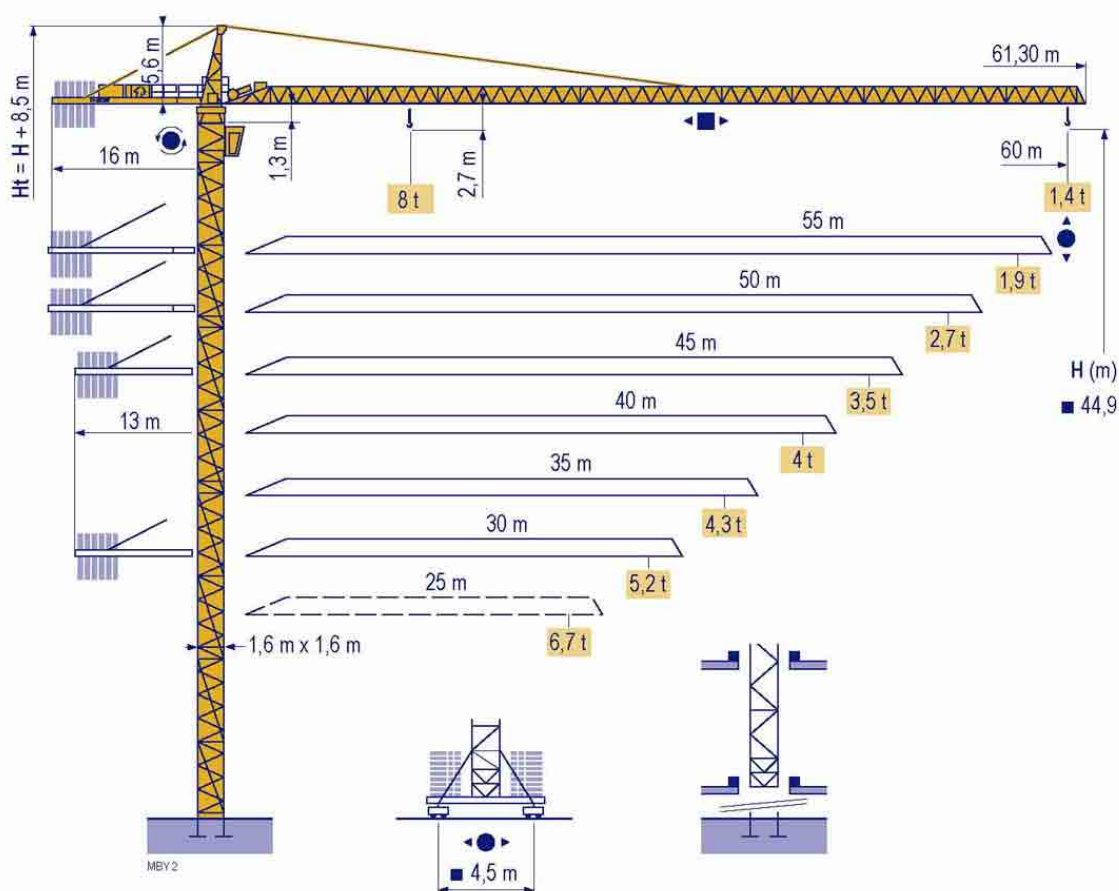
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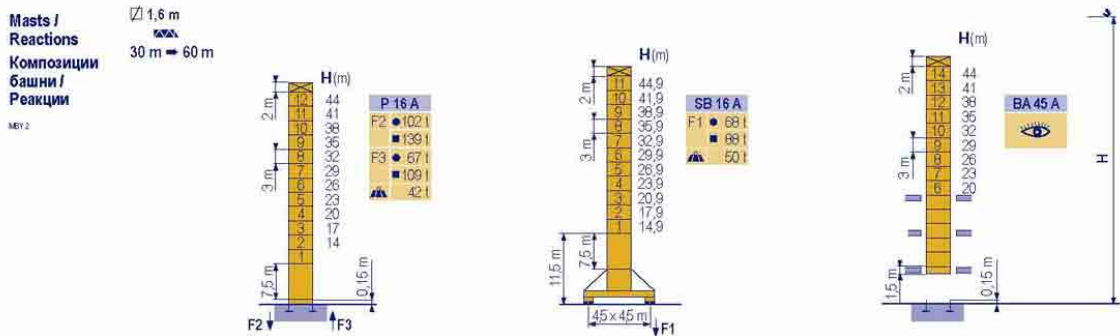


**03D – DATASHEET**

**POTAIN** 

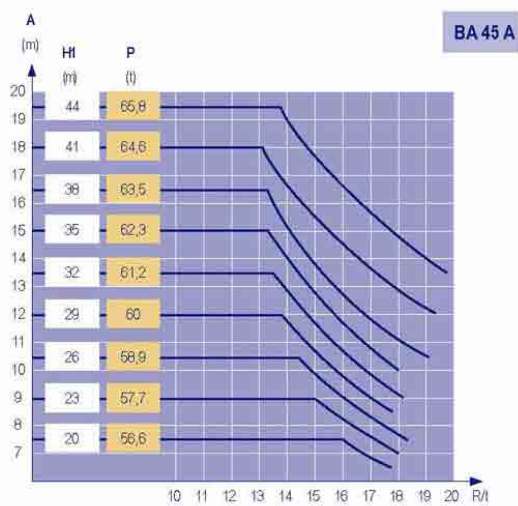
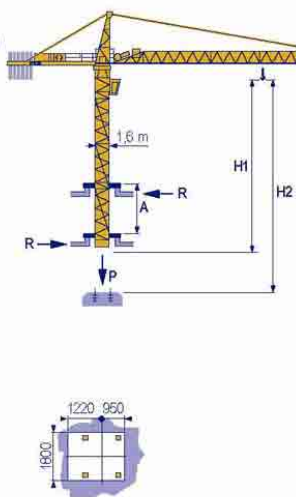
**MC 175 B** 





**Climbing crane**  
Кран, ползущий внутри здания

MBY 2



**CITY CRANE**  
MC 175 B

**POTAIN**

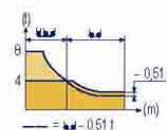
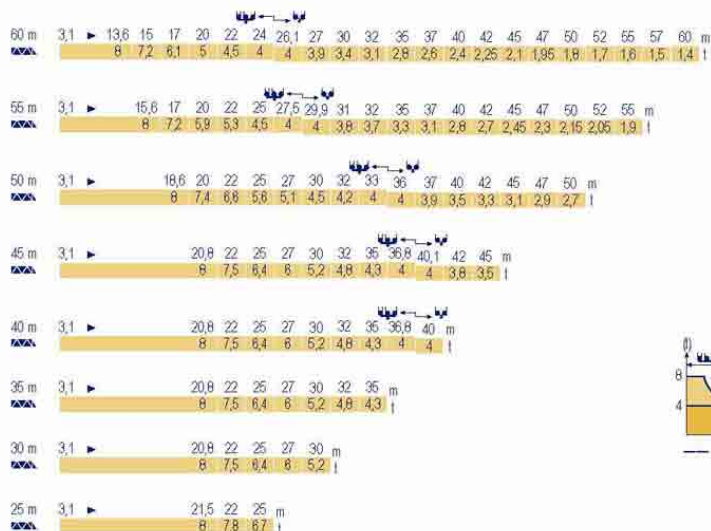
EN	
●	Reactions in service
■	Reactions out of service
👤	Without load, ballast (or transport axles), with maximum jib and maximum height.
👁	See climbing crane

RU	
●	Реакции при работе
■	Реакции в покое
👤	Вес без груза, балласта (или транспортных осей), с максимальной длиной стрелы и максимальной высотой.
👁	См. кран, ползущий внутри здания

**GENERAL NOTES**

**Load diagrams**  
Диаграммы  
грузоподъемностей

MEY3



**Counter-jib ballast**  
Балласт на консоли

MEY3

		3450 kg	2250 kg	(kg)
60 m	16 m	4	2	18 300
55 m	16 m	3	3	17 100
50 m	16 m	3	2	14 850
45 m	13 m	5	1	19 500
40 m	13 m	4	2	18 300
35 m	13 m	3	3	17 100
30 m	13 m	3	2	14 850
25 m	13 m	3	2	12 600

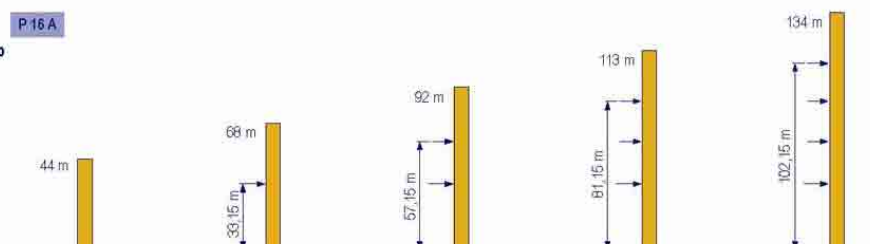
**Base ballast**  
Базовый балласт

MEY2

Z 1,6 m	SB 16 A	H (m)	44,9	41,9	38,9	35,9	32,9	29,9	26,9	23,9	20,9	17,9	14,9
		(t)	72	60	54	54	54	54	54	54	54	54	54

**Anchorage**  
Рамки для крепления к зданию

MEY2



**CITY CRANE  
MC 175 B**

**POTAIN**

EN

- A Distance between collars
- H1 Crane height
- P Crane weight (in service)
- R Horizontal reaction

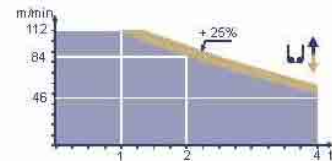
RU

- Расстояние между рамками крепления
- Высота крана
- Вес крана (при работе)
- Горизонтальные реакции

**Mechanisms**

Mechanisms											hp	kW			
	45RCS20	m/min	0 → 40    0 → 80				0 → 20    0 → 40				45	33	361		
		t	4		2		8		4						
	45RCS20 (CN)	m/min	0 → 41    0 → 82				0 → 20.5    0 → 41				45	33	329		
		t	4		2		8		4						
	55RCS20 GH(CN)	m/min	0 → 54    0 → 108				0 → 27    0 → 54				55	40.5	430		
t		4		2		8		4							
50LVF20 optima3	m/min	46 → 58 → 84 → 112				23 → 29 → 42 → 61				50	37	363			
	t	4	3	2	1	8	6	4	2						
	6DVF4	m/min	42(6t) → 84(8t) → 100(4t)										5.5	4	
	5D3V4 (CN)	m/min	15 → 30 → 58										5	3.7	
	RCV145 (CN&EU)	m/min	0 → 0.8										2X6	2X4.4	
	RT324C1	m/min	12.5 → 25										kX7	kX5.2	
	RT544A1	m/min	13.5 → 27										kX7	kX5.2	
CEI 38			IEC 38								<b>kVA</b>				
400 V (+6% - 10%) 50 Hz			380V 50HZ				45 RCS : 60kVA 55 RCS : 70kVA 50 LVF : 70kVA								

**50LVF 20  
Optima**



	GB
	Hoisting
	Trolleying
	Slewing
	Travelling



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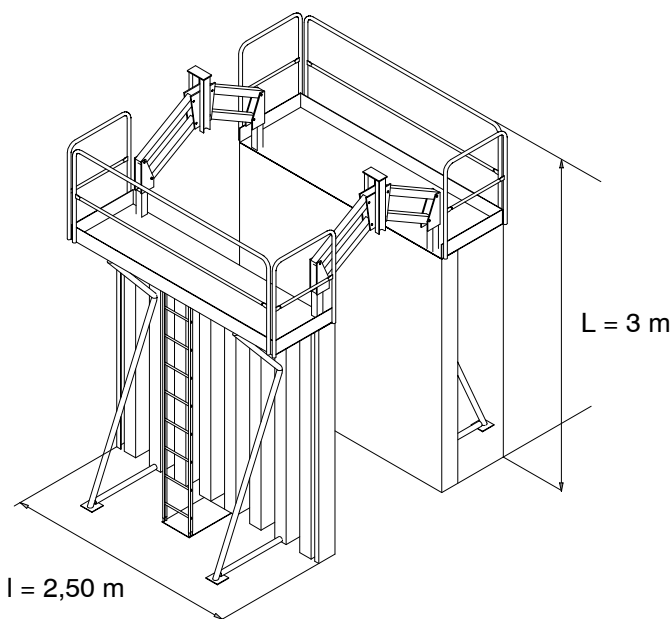
**MC175B**

## INSTRUCTIONS FOR USE

### 1. HOW TO DETERMINE THE PERMISSIBLE WIND SPEED FOR A LOAD OF WHICH THE SURFACE EXCEEDS THE SURFACE DEFINED BY THE STANDARD.

#### 1. 1. SIMPLIFIED CALCULATION OF THE SURFACE EXPOSED TO THE WIND

- In easy cases, load with full or with latticed surface, the calculation of the surface is  $S \text{ (m}^2\text{)} = L \times l$  – product of the two largest surfaces exposed to the wind (Ex.: sheetings, see below). In more difficult cases, PLEASE CONSULT US.



Example:  $S = 3 \text{ m} \times 2,50 \text{ m} = 7,5 \text{ m}^2$

See the tables on the following pages for determining the permissible wind speed in service.

#### 1. 2. TABLES OF THE MAXIMUM WIND SPEED IN SERVICE FOR ALL JIB LENGTHS

- The tables of the following pages indicate the wind speed for:
  - a crane equipped with one trolley (SM/DM) which is used with 2–fall reeving (SM) or 4–fall reeving (DM),
  - a crane with only a 2–fall equipment (SM), but limited to its load capacity at 2–fall reeving.



It is not the actual value of the load which is important, but the crane capacity for a given radius which determines the maximum wind speed.

##### 1. 2. 1. Example for using the tables

- **Characteristics – example :**
  - Crane type: MD 120 A
  - Jib length: 50 m
  - Radius: 30 m
  - Weight of the load: 3,2 t
- **Calculation of the surface:**
  - Load surface:  $S = 3 \text{ m} \times 2,50 \text{ m} = 7,5 \text{ m}^2 \approx 8 \text{ m}^2$

# INSTRUCTIONS FOR USE

## GENERAL NOTES

- The permissible maximum wind speed in service is 48 km/h (see the grey tinted parts of the corresponding table). It corresponds to the crossing of the columns: radius 30 m, surface 8 m<sup>2</sup>.

Radii	19	22	25	27	30	32	34	35	37	40	42	45	47	50
Load curve (in t)	6	5,13	4,41	4,03	3,64	3,27	3	3	2,79	2,53	2,38	2,18	2,06	1,9
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)													
1	72	72	72	72	72	72	72	72	72	72	72	72	72	72
2	72	72	72	72	72	72	72	72	72	72	72	72	72	70
3	72	72	72	72	72	72	72	72	69	66	64	61	60	57
4	72	72	72	72	68	65	62	62	60	57	56	53	52	50
5	72	72	68	65	61	58	56	56	54	51	50	48	46	44
6	72	67	62	59	55	53	51	51	49	47	45	43	42	41
7	67	62	57	55	51	49	47	47	45	43	42	40	39	38
8	62	58	53	51	48	46	44	44	43	40	39	38	37	35
S = Surface of the lifted load in m <sup>2</sup>														



## 1. 3. INFLUENCE OF THE SURFACE OF THE MOBILE LOAD ON THE PERMISSIBLE MAXIMUM WIND SPEED IN SERVICE

### 1. 3. 1. 60 m jib

Radii	13,6	15	17	20	22	24	26,1	27	30	32	35	37	40	42	45	47	50	52	55	57	60
Load curve (in t)	8	7,2	6,1	5	4,5	4	4	3,9	3,4	3,1	2,8	2,6	2,4	2,25	2,1	1,95	1,8	1,7	1,6	1,5	1,4
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																				
1	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
2	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	68	66	64	62	60
3	72	72	72	72	72	72	72	72	72	72	70	67	64	62	60	58	56	54	53	51	49
4	72	72	72	72	72	72	72	71	66	63	60	58	56	54	52	50	48	47	46	44	43
5	72	72	72	72	68	64	64	64	59	57	54	52	50	48	47	45	43	42	41	39	38
6	72	72	72	66	62	59	59	58	54	52	49	47	46	44	43	41	39	38	37	36	35
7	72	72	67	61	58	54	54	54	50	48	46	44	42	41	39	38	37	35	34	33	32
8	72	68	63	57	54	51	51	50	47	45	43	41	39	38	37	36	34	33	32	31	30
9	68	64	59	54	51	48	48	47	44	42	40	39	37	36	35	34	32	31	30	29	28
10	64	61	56	51	48	46	46	45	42	40	38	37	35	34	33	32	31	30	29	28	27
11	61	58	54	49	46	43	43	43	40	38	36	35	34	33	31	30	29	28	27	27	26
12	59	56	51	46	44	42	42	41	38	37	35	34	32	31	30	29	28	27	26	25	25
13	56	54	49	45	42	40	40	39	37	35	33	32	31	30	29	28	27	26	25	24	24
14	54	52	48	43	41	38	38	38	35	34	32	31	30	29	28	27	26	25	24	24	23
15	53	50	46	42	39	37	37	37	34	33	31	30	29	28	27	26	25	24	24	23	22
16	51	48	44	40	38	36	36	36	33	32	30	29	28	27	26	25	24	23	23	22	21
17	49	47	43	39	37	35	35	34	32	31	29	28	27	26	25	24	23	23	22	21	21
18	48	46	42	38	36	34	34	34	31	30	28	27	26	25	25	24	23	22	21	21	20
19	47	44	41	37	35	33	33	33	30	29	28	27	26	25	24	23	22	22	21	20	20
20	46	43	40	36	34	32	32	32	30	28	27	26	25	24	23	22	22	21	20	20	19
S = Surface of the lifted load in m <sup>2</sup>																					

## 1. 3. 2. 55 m jib

Radii		15,6	17	20	22	25	27,9	29,9	31	32	35	37	40	42	45	47	50	52	55		
Load curve (in t)		8	7,2	5,9	5,3	4,5	4	4	3,8	3,7	3,3	3,1	2,8	2,7	2,45	2,3	2,15	2,05	1,9		
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																				
1		72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72		
2		72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	70		
3		72	72	72	72	72	72	72	72	72	72	72	70	68	65	63	61	60	57		
4		72	72	72	72	72	72	72	70	69	65	63	60	59	56	55	53	52	50		
5		72	72	72	72	68	64	64	63	62	58	57	54	53	50	49	47	46	44		
6		72	72	71	68	62	59	59	57	57	53	52	49	48	46	45	43	42	41		
7		72	72	66	63	58	54	54	53	52	49	48	46	45	43	41	40	39	38		
8		72	68	62	59	54	51	51	50	49	46	45	43	42	40	39	37	36	35		
9		68	64	58	55	51	48	48	47	46	44	42	40	39	38	36	35	34	33		
10		64	61	55	52	48	46	46	44	44	41	40	38	37	36	35	33	33	31		
11		61	58	53	50	46	43	43	42	42	39	38	36	36	34	33	32	31	30		
12		59	56	50	48	44	42	42	41	40	38	37	35	34	33	32	30	30	29		
13		56	54	49	46	42	40	40	39	38	36	35	33	33	31	30	29	29	28		
14		54	52	47	44	41	38	38	38	37	35	34	32	32	30	29	28	28	27		
15		53	50	45	43	39	37	37	36	36	34	33	31	31	29	28	27	27	26		
16		51	48	44	41	38	36	36	35	35	33	32	30	30	28	27	26	26	25		
17		49	47	42	40	37	35	35	34	34	32	31	29	29	27	26	26	25	24		
18		48	46	41	39	36	34	34	33	33	31	30	28	28	27	26	25	24	23		
19		47	44	40	38	35	33	33	32	32	30	29	28	27	26	25	24	24	23		
20		46	43	39	37	34	32	32	31	31	29	28	27	26	25	24	24	23	22		
S = Surface of the lifted load in m <sup>2</sup>																					

## 1. 3. 3. 50 m jib

Radii			18,6	20	22	25	27	30	32	33	36	37	40	42	45	47	50				
Load curve (in t)			8	7,4	6,6	5,6	5,1	4,5	4,2	4	4	3,9	3,5	3,3	3,1	2,9	2,7				
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																				
1			72	72	72	72	72	72	72	72	72	72	72	72	72	72	72				
2			72	72	72	72	72	72	72	72	72	72	72	72	72	72	72				
3			72	72	72	72	72	72	72	72	72	72	72	72	72	71	68				
4			72	72	72	72	72	72	72	72	72	71	67	65	63	61	59				
5			72	72	72	72	72	68	66	64	64	64	60	58	57	55	53				
6			72	72	72	70	66	62	60	59	59	58	55	53	52	50	48				
7			72	72	70	64	61	58	56	54	54	54	51	49	48	46	45				
8			72	69	65	60	57	54	52	51	51	50	48	46	45	43	42				
9			68	65	62	57	54	51	49	48	48	47	45	44	42	41	39				
10			64	62	58	54	51	48	47	46	46	45	43	41	40	39	37				
11			61	59	56	51	49	46	44	43	43	43	41	39	38	37	36				
12			59	57	53	49	47	44	43	42	42	41	39	38	37	35	34				
13			56	54	51	47	45	42	41	40	40	39	37	36	35	34	33				
14			54	52	49	46	43	41	39	38	38	38	36	35	34	33	32				
15			53	51	48	44	42	39	38	37	37	37	35	34	33	32	31				
16			51	49	46	43	41	38	37	36	36	36	34	33	32	31	30				
17			49	48	45	41	39	37	36	35	35	34	33	32	31	30	29				
18			48	46	44	40	38	36	35	34	34	34	32	31	30	29	28				
19			47	45	42	39	37	35	34	33	33	33	31	30	29	28	27				
20			46	44	41	38	36	34	33	32	32	32	30	29	28	27	26				
S = Surface of the lifted load in m <sup>2</sup>																					

## 1. 3. 4. 45 m jib

Radii				20,8	22	25	27	30	32	35	36,8	40,1	42	45						
Load curve (in t)				8	7,5	6,4	6	5,2	4,8	4,3	4	4	3,8	3,5						
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																			
1				72	72	72	72	72	72	72	72	72	72	72						
2				72	72	72	72	72	72	72	72	72	72	72						
3				72	72	72	72	72	72	72	72	72	72	72						
4				72	72	72	72	72	72	72	72	72	70	67						
5				72	72	72	72	72	71	67	64	64	63	60						
6				72	72	72	72	67	64	61	59	59	57	55						
7				72	72	69	67	62	60	56	54	54	53	51						
8				72	70	64	62	58	56	53	51	51	50	48						
9				68	66	61	59	55	53	50	48	48	47	45						
10				64	62	58	56	52	50	47	46	46	44	43						
11				61	59	55	53	50	48	45	43	43	42	41						
12				59	57	53	51	47	46	43	42	42	41	39						
13				56	55	51	49	46	44	41	40	40	39	37						
14				54	53	49	47	44	42	40	38	38	38	36						
15				53	51	47	46	42	41	39	37	37	36	35						
16				51	49	46	44	41	39	37	36	36	35	34						
17				49	48	44	43	40	38	36	35	35	34	33						
18				48	46	43	42	39	37	35	34	34	33	32						
19				47	45	42	40	38	36	34	33	33	32	31						
20				46	44	41	39	37	35	33	32	32	31	30						
S = Surface of the lifted load in m <sup>2</sup>																				

**1. 3. 5. 40 m jib**

Radii				20,8	22	25	27	30	32	35	36,8	40								
Load curve (in t)				8	7,5	6,4	6	5,2	4,8	4,3	4	4								
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																			
1				72	72	72	72	72	72	72	72	72								
2				72	72	72	72	72	72	72	72	72								
3				72	72	72	72	72	72	72	72	72								
4				72	72	72	72	72	72	72	72	72								
5				72	72	72	72	72	71	67	64	64								
6				72	72	72	72	67	64	61	59	59								
7				72	72	69	67	62	60	56	54	54								
8				72	70	64	62	58	56	53	51	51								
9				68	66	61	59	55	53	50	48	48								
10				64	62	58	56	52	50	47	46	46								
11				61	59	55	53	50	48	45	43	43								
12				59	57	53	51	47	46	43	42	42								
13				56	55	51	49	46	44	41	40	40								
14				54	53	49	47	44	42	40	38	38								
15				53	51	47	46	42	41	39	37	37								
16				51	49	46	44	41	39	37	36	36								
17				49	48	44	43	40	38	36	35	35								
18				48	46	43	42	39	37	35	34	34								
19				47	45	42	40	38	36	34	33	33								
20				46	44	41	39	37	35	33	32	32								
S = Surface of the lifted load in m <sup>2</sup>																				

## 1. 3. 6. 35 m jib

Radii				20,8	22	25	27	30	32	35										
Load curve (in t)				8	7,5	6,4	6	5,2	4,8	4,3										
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																			
1				72	72	72	72	72	72	72										
2				72	72	72	72	72	72	72										
3				72	72	72	72	72	72	72										
4				72	72	72	72	72	72	72										
5				72	72	72	72	72	71	67										
6				72	72	72	72	67	64	61										
7				72	72	69	67	62	60	56										
8				72	70	64	62	58	56	53										
9				68	66	61	59	55	53	50										
10				64	62	58	56	52	50	47										
11				61	59	55	53	50	48	45										
12				59	57	53	51	47	46	43										
13				56	55	51	49	46	44	41										
14				54	53	49	47	44	42	40										
15				53	51	47	46	42	41	39										
16				51	49	46	44	41	39	37										
17				49	48	44	43	40	38	36										
18				48	46	43	42	39	37	35										
19				47	45	42	40	38	36	34										
20				46	44	41	39	37	35	33										
S = Surface of the lifted load in m <sup>2</sup>																				

**1. 3. 7. 30 m jib**

Radii				20,8	22	25	27	30												
Load curve (in t)				8	7,5	6,4	6	5,2												
S (in m <sup>2</sup> )	Permissible maximum wind speed in service (in km/h)																			
1				72	72	72	72	72												
2				72	72	72	72	72												
3				72	72	72	72	72												
4				72	72	72	72	72												
5				72	72	72	72	72												
6				72	72	72	72	67												
7				72	72	69	67	62												
8				72	70	64	62	58												
9				68	66	61	59	55												
10				64	62	58	56	52												
11				61	59	55	53	50												
12				59	57	53	51	47												
13				56	55	51	49	46												
14				54	53	49	47	44												
15				53	51	47	46	42												
16				51	49	46	44	41												
17				49	48	44	43	40												
18				48	46	43	42	39												
19				47	45	42	40	38												
20				46	44	41	39	37												
S = Surface of the lifted load in m <sup>2</sup>																				

