



Technical drawing of a tower crane (MDP 2) showing its components, dimensions, and load capacities.

The crane consists of a vertical mast and a horizontal jib. The jib is divided into two sections: a shorter section (29 m) and a longer section (55 m). The total height of the crane is 29 m. The jib is supported by a hook and a counterweight system.

The crane is shown lifting five different loads, each with a specific radius from the center of rotation:

- Load 1: 2.15 t, radius 55 m
- Load 2: 3.25 t, radius 50 m
- Load 3: 4.15 t, radius 45 m
- Load 4: 5.25 t, radius 40 m
- Load 5: 7.4 t, radius 30 m

The crane is shown in two views: a side view and a plan view. The side view shows the crane's height and the jib's length. The plan view shows the crane's base dimensions (6 m x 6 m) and the hook's dimensions (2 m x 2 m).

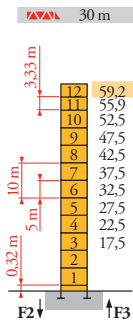
MDP 2



Mat / Réactions
Maste / Eckdrücke
Masts / Reactions
Mástil /
Reacciones
Torre / Reazioni
Tramo / Reacções
Композиции
башни / Реакции

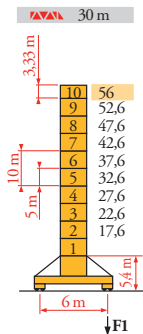
Télescopable 2 m
Teleskopierbar 2 m
Telescopic 2 m
Telescopico 2 m
Telescopagem 2 m
Телескопируемый,
башня 2М

MDP3



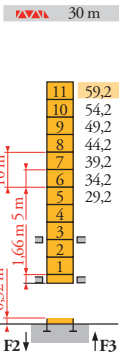
	H (m)	5 m	3,33 m
35	55,9	10	1
40	52,5	10	-
45	50,9	9	1
50	47,5	9	0
55	45,9	8	1

P 61 A	
F2	● 163 t
	■ 253 t
F3	● 123 t
	■ 214 t
	▲ 62 t



	H (m)	5 m	3,33 m
35 m	52,6	9	-
40 m	49,3	7	2
45 m	46	7	1
50 m	42,6	7	-
55 m	39,3	5	2

V 60 A	
F1	● 104 t
	■ 133 t
	▲ 72 t



	H (m)	5 m	3,33 m
35 m	55,9	9	2
40 m	52,5	9	1
45 m	50,9	8	2
50 m	47,5	8	1
55 m	44,2	8	-

B 60 A	
F2	● 163 t
	■ 253 t
F3	● 123 t
	■ 214 t
	▲ 62 t
	i

FR

- Réactions en service
- Réactions hors service
- ▲ A vide sans lest (ni train de transport) avec flèche et hauteur maximum.

DE

- Reaktionskräfte in Betrieb
- Reaktionskräfte außer Betrieb
- ▲ Ohne Last, Ballast (und Transportachse), mit Maximalausleger und Maximalhöhe.

EN

- Reactions in service
- Reactions out of service
- ▲ Without load, ballast (or transport axles), with maximum jib and maximum height.

ES

- Reacciones en servicio
- Reacciones fuera de servicio
- ▲ Sin carga, sin lastre, (ni tren de transporte), flecha y altura máxima.

IT

- Reazioni in servizio
- Reazioni fuori servizio
- ▲ A vuoto, senza zavorra (ne assali di trasporto) con braccio massimo e altezza massima.

PT

- Reacções em serviço
- Reacções fora de serviço
- ▲ Sem carga (nem trem de transporte)- sem lastro com lança e altura máximas.

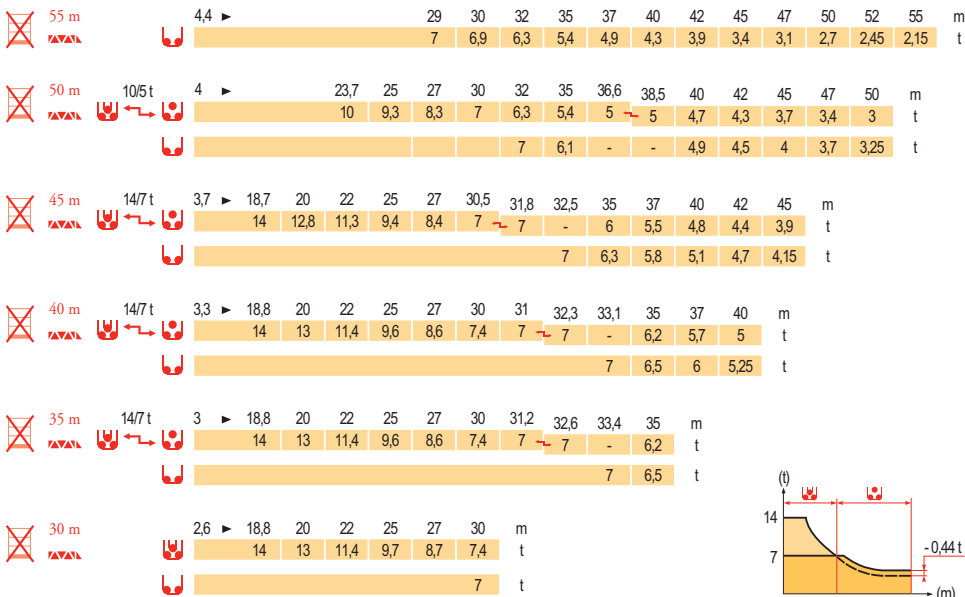
RU

- Реакции при работе
- Реакции в покое
- ▲ Вес без груза, балласта (или транспортных осей), с максимальной длиной стрелы и максимальной высотой.



Courbes de charges
Lastkurven
Load diagrams
Curvas de cargas
Curve di carico
Curva de cargas
Диаграммы
грузоподъемностей

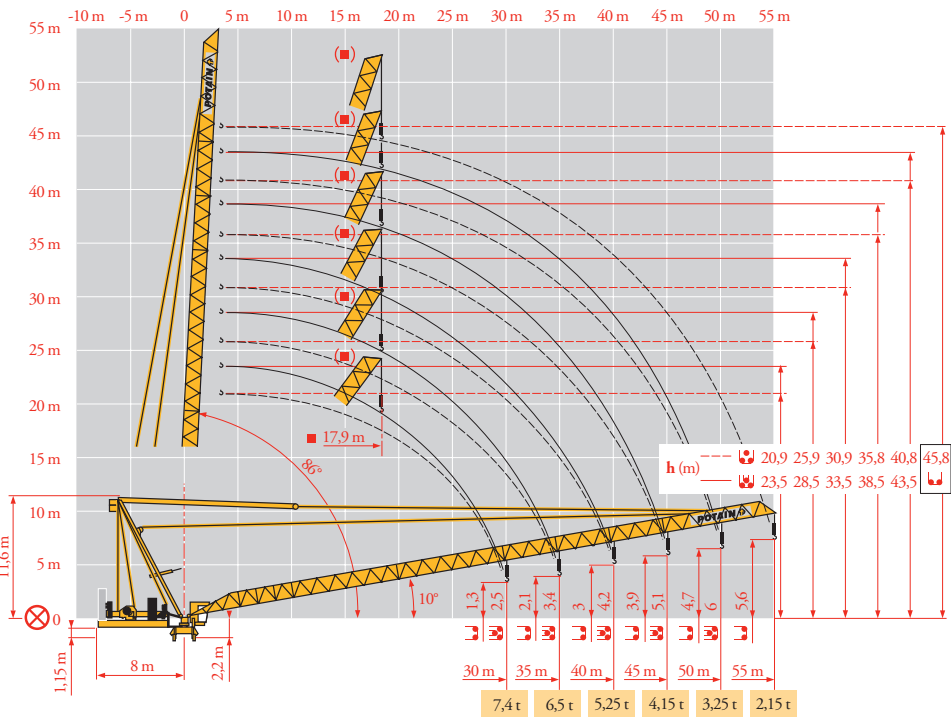
MDP 3



= - 0,1 t

Flèche relevée
Ausleger in Steilstellung
Luffing jib
Flecha izada
Braccio impennato
Lança inclinada
Маховая стрела

MDP 3



FR

Courbes de charges sans
plateforme d'intervention



Courbes de charges avec
plateforme d'intervention
déduire 0,1 t



Axe articulation flèche
Position girouette

DE

Lastkurven ohne
Arbeitsbühne

Lastkurven mit Arbeitsbühne
0,1 t abziehen

Ausleger-gelenkachse
Windfreistellung

EN

Load diagrams without
jib-end inspection platform

Load diagrams with jib-end
inspection platform
deduct 0,1 t

Jib hinge shaft
Weather vaning position

ES

Curvas de cargas sin
plataforma de servicio

Curvas de cargas con
plataforma de servicio
descontar 0,1 t

Eje articulación de flecha
Posición eleta

IT

Curve di carico senza
piattaforma di servizio

Curve di carico con
piattaforma di servizio
dedurre 0,1 t

Asse cerniera braccio
Libera rotazione

PT

Curva de cargas sem uma
plataforma de intervenção

Curva de cargas com uma
plataforma de intervenção
deduzir 0,1 t

Eixo de articulação da lança
Posição em catavento

RU

Диаграммы грузоподъемностей
без площадки для осмотра стрелы

Диаграммы грузоподъемностей с
площадкой для осмотра стрелы за
вычетом 0,1 т

Ось шарнира стрелы
Флюгирование



Mécanismes
Antriebe
Mechanisms
Mecanismos
Meccanismi
Mecanismos
Механизмы

MDP3

MR 225 A - 50 Hz																			ch - PS hp	kW							
	75 LVF 35 Optima	m/min	0	→	40	→	46	→	81	→	96	0	→	20	→	23	→	41	→	48	75	55	766 m				
		t	7			6			3	2,25	14			12			6	4,5									
	100 LVF 35 Optima	m/min	0	→	52	→	62	→	108	→	140	0	→	26	→	31	→	54	→	70	100	75	1146 m				
		t	7			6			3	1,75	14			12			6	3,5									
	150 LCC 35	m/min	0	→	84	→	100	→	124	→	166	→	200	0	→	42	→	50	→	62	→	83	→	100	150	110	1004 m
		t	7	5,25			3,5	1,75	0,875	14			10,5	7	3,5	1,75											
	75 V VF 30	m/min	2 min																				75	55			
	RVF 162 Optima +	rpm	0 → 0,7										2 x 7,5										2 x 5,5				
	V 60 A RT 544 A1 - 2V	m/min	13,5 - 27										4 x 7										4 x 5,2				
CEI 38			IEC 38					kVA																			
400 V (+6% -10%)								75 LVF : 165 kVA 100 LVF : 190 kVA 150 LCC : 240 kVA																			

MR 225 A - 60 Hz																			ch - PS hp	kW							
	75 LVF 35 Optima	m/min	0	→	40	→	46	→	81	→	96	0	→	20	→	23	→	41	→	48	75	55	766 m				
		t	7			6			3	2,25	14			12			6	4,5									
	100 LVF 35 Optima	m/min	0	→	52	→	62	→	108	→	140	0	→	26	→	31	→	54	→	70	100	75	1146 m				
		t	7			6			3	1,75	14			12			6	3,5									
	150 LCC 35	m/min	0	→	84	→	100	→	124	→	166	→	200	0	→	42	→	50	→	62	→	83	→	100	150	110	1004 m
		t	7	5,25			3,5	1,75	0,875	14			10,5	7	3,5	1,75											
	75 V VF 30	m/min	2 min																				75	55			
	RVF 162 Optima +	rpm	0 → 0,7										2 x 7,5										2 x 5,5				
	V 60 A RT 544 A1 - 2V	m/min	16 - 32										4 x 8,4										4 x 6,2				
CEI 38			IEC 38					kVA																			
480 V (+6% -10%)								75 LVF : 165 kVA 100 LVF : 190 kVA 150 LCC : 270 kVA																			

FR	DE	EN	ES	IT	PT	RU
Levage	Heben	Hoisting	Elevación	Sollevamento	Elevação	Подъем
Relevage	Ausleger-Einziehen	Luffing	Elevación de flecha	Brandeggio	Inclinação da lança	Подъем стрелы
Orientation	Schwenken	Slewing	Orientación	Rotazione	Rotação	Поворот
Translation	Kranfahren	Travelling	Traslación	Traslazione	Translação	Перемещение крана
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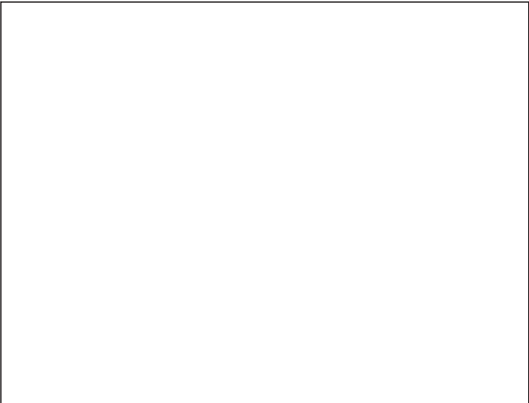
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MR 225A



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