AMS

KRANBAU GMBH

Turmdrehkrane Tower Cranes

MADE IN GERMANY

Seit 25 Jahren Erfahrungen mit Turmdrehkranen

Manufaktur:

von lateinisch manus „Hand“ und lat. facere „erbauen“, „machen“, „herstellen“

Seit mehr als 25 Jahren werden in der Manufaktur in Arneburg Turmdrehkrane hergestellt. Weit über 1000 Katz- und Wippkrane haben mittlerweile die Produktionshallen verlassen und wurden weltweit exportiert. 2003 übernahm die familiengeführte AMS Gruppe den Standort der ehemaligen Potain und BKT Kranfertigung am angrenzenden Grundstück. Als ehemaliger Lieferant übernahm die AMS Gruppe auch die Fachkräfte, gründete die AMS Kranbau GmbH und produziert seither unter neuem Namen.

Besonders die hohe Fertigungstiefe bei der Herstellung der Krane zeichnet die AMS aus und wird durch die Gruppe sicher gestellt. Dies unterscheidet AMS Kranbau GmbH von anderen Kranherstellern und resultiert in einer hohen Flexibilität den Kunden gegenüber. Vom Zuschnitt, über die mechanische Bearbeitung und Konservierung bis zur Endmontage erfolgt alles durch qualifiziertes Personal am Standort Arneburg.

Erfahrene, motivierte und hoch qualifizierte Kollegen in der Produktion und im Engineering sind die Basis für die erfolgreiche Vergangenheit und vielversprechende Zukunft. Aufgrund der flexiblen Produktionsstruktur und der Projektingenieure lassen sich Kundenwünsche schnell umsetzen. Kundenorientierte Konstruktion auf Basis neuester Industriestandards sowie Projektbetreuung bei Planung spezieller Anwendungen sind Teil unseres Repertoires.

Unsere Leitziele:

- Zufriedenheit unserer Kunden
- Höchst mögliche Qualität
- Ständige Verbesserung

Die gesamte Produktion unterliegt ebenfalls Qualitätsrichtlinien nach ISO 9001: 2015. Ein Schwerpunkt liegt auf der Schweißqualität, bei der AMS nach DIN EN ISO 3834-2 zertifiziert ist. Zudem sind alle unsere Krane CE-Zertifiziert. Im Vergleich zu anderen deutschen oder westeuropäischen Kranherstellern ist die AMS Kranbau GmbH flexibler, da die Krane individuell modifiziert werden können.

Der Kunde kann zu angemessenen Kosten ein sog. „fit to purpose“ Produkt erhalten. Das bedeutet, dass der Kran sowohl im Betrieb als auch in der Anschaffung unter ökonomischen Gesichtspunkten attraktiv ist. In dieser Broschüre wird der Leser die wichtigsten Merkmale von AMS-Kranen kennenlernen.

Experience in tower cranes for 25 years

Manufacture:

lat. manus „hand“ and lat. facere „to build, to make, to produce“

For more than 25 years tower cranes have been manufactured at the Arneburg factory. More than 1000 luffing and jib cranes have meanwhile left the production halls and have been exported worldwide. In 2003, the family-run AMS Group took over the location of the former Potain and BKT crane production on the adjacent property. As a former supplier, the AMS Group also took over the specialists, founded AMS Kranbau GmbH and has since been producing under a new name.

The high level of vertical integration in the manufacture of the cranes characterizes the AMS and is guaranteed by the group. This distinguishes AMS Kranbau GmbH from other crane manufacturers and results in a high degree of flexibility towards the customers. From cutting, through mechanical processing and preservation to final assembly, everything is done by qualified personnel at the Arneburg site.

Experienced, motivated and highly qualified colleagues in production and engineering are the basis for the successful past and the promising future. Due to the flexible production structure and the project engineers, customer wishes can be implemented quickly. Customer-oriented design based on the latest industry standards and project support for planning special applications are part of our repertoire.

Our goals:

- Satisfaction of our customers
- Highest possible quality
- Continuous improvement

The entire production is also subject to quality guidelines according to ISO 9001: 2015. One focus is on the welding quality, with which AMS is certified according to DIN EN ISO 3834-2. In addition, all our cranes are CE certified. Compared to other German or Western European crane manufacturers, AMS Kranbau GmbH is more flexible as the cranes can be individually modified.

The customer can receive a so-called „fit to purpose“ product at a reasonable cost. This means that the crane is attractive from an economic point of view both in operation and in purchase. In this brochure, the reader will get to know the most important features of AMS cranes.

Hauptmerkmale von AMS Turmdrehkrane

Jeder AMS Turmdrehkran wird in Deutschland entworfen und produziert. Die Konstruktion des Krans erfolgt Hausintern, die Elektronikentwicklung erfolgt in Kooperation mit unserem Partner NTK. Die Produkte sind nach EN 14439 konstruiert und von unabhängigen Dritten geprüft. Neben unserem auf den folgenden Seiten abgebildeten Standardprogramm sind weitere Modelle und Hubantriebe verfügbar. Darüber hinaus ist AMS in der Lage, den Kran nach Kundenwunsch zu modifizieren oder konstruieren. Die Vorteile einer flexiblen Produktion und eines modularen Designs ergeben die Möglichkeit, den Kran an jeden Kunden und jede Baustelle anzupassen.

Highlights der Krane:

- Leichtes Design und hohe Effizienz der Stahlkonstruktion
- Transportoptimiert
- Hohe technische Stabilität und langlebige Komponenten
- Geringer Wartungsaufwand
- Standard 2 Fach Einscherung für 6 Tonnen bis 20 Tonnen
- AK-Modelle sind Spitzenlose-Katzkrane
- ATL-Modelle sind topless Wippkrane mit einzigartigen Vorteilen
- Alle Hubtrommeln können mit Spezialrillungen für hohe Hakenhöhen ausgestattet werden
- Antriebe und Getriebe aus westeuropäischer Produktion (SEW, Leroy Somer) mit hoher Leistung
- Frequenzumrichter-technologie für alle Antriebe für Energieeffizienz
- Redundante Sicherheitseinrichtungen
- BlackBox, Schleifringübertragung, el. Windfreistellung, Windmessung, Arbeitsbereichsbegrenzung, 2. Lastkurve
- Optional: Ferndiagnosemodul, Klimaanlage, Zentralschmiersystem

Das Herzstück des Krans ist der Steuerstand und die Elektronik, beides in einer Luxuskabine, die bei AMS-Turmdrehkranen serienmäßig ist.
Die Bedienung erfolgt in einer optinal vollklimatisierten Doppelkabine mit integriertem, aber intern getrenntem Elektroniken. In der großzügigen Panoramakabine sitzt der Fahrer auf einem ergonomischen Fahrersitz mit modernen Bedienelementen. Ein Touchscreen dient zur Anzeige der wichtigen Kranfunktionen sowie zur Einstellung der Kranparameter und elektronischen Sicherheitseinrichtungen. Während des Betriebs werden die aktuelle Position der Laufkatze, die Höhe des Hakens, der Drehwinkel und die Last permanent angezeigt. Zudem ist die Lastreserve ersichtlich.

Key Features of AMS tower cranes

Every AMS tower crane is designed and produced in Germany. The design of the crane is made in-house, the electronics development is done in cooperation with our partner NTK.
The products are designed according to EN 14439 and proved by an independent third party.

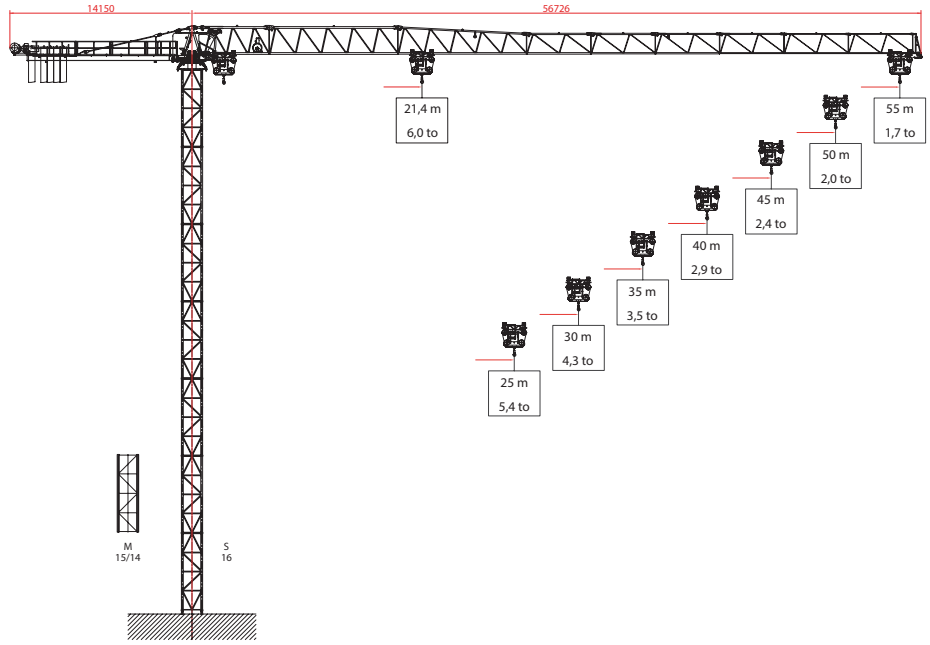
Besides our standard range shown on the following pages, there are more models and hoist units available. Furthermore AMS is able to design the crane to the customers need.
The advantages of a flexible production and modular design result in the ability to fit the crane to each customer and building site.

Highlights of the cranes are:

- Light weight design and high efficiency of the steel structure
- Transport-optimized
- High technical stability and long lasting components
- Low maintenance needed
- Standard 2 fall reeving for 6 ton to 20 ton
- AK models are topless trolley cranes
- ATL models are topless luffing cranes with unique advantages
- All products can be equipped with "Lebus"-design hoist drums for high hook height
- Drives and gears from western European production (SEW, Leroy Somer) with high performance
- Frequency inverter technology for all drives for energy efficiency
- Redundant safety devices
- Blackbox, slipring transmitter, Electrical wind free mode, wind measurement, work area limitation, 2nd load curve
- Optional: remote diagnostic module, air conditioning, central lubrication system

The heart of the crane is the control station and the electronics - both inside a luxurious cabin as standard at AMS tower cranes. The operator takes place inside an optional fully air-conditioned dual Cabin with integrated but internally separated control house. Inside the generous panorama cabin, the operator will sit on an ergonomic control seat with modern control elements. A touch screen is used for the display of the important crane functions as well as for the adjustment of the crane parameters and electronically safety devices. During operation the current position of the trolley, the height of the hook block, turning angle and load are shown permanently. Further the load reserve can be seen.

AK 120.6 - 6-ton


14150
56726
21,4 m
6,0 to
55 m
1,7 to
50 m
2,0 to
45 m
2,4 to
40 m
2,9 to
35 m
3,5 to
30 m
4,3 to
25 m
5,4 to
M
15/14
S
16

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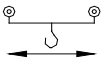
Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	10	15	20	25	30	35	40	45	50	55
55	6,0	21,44	6,0	6,0	6,0	4,7	3,8	3,1	2,6	2,2	1,9	**1,7**
50	6,0	21,81	6,0	6,0	6,0	4,8	3,9	3,2	2,7	2,3	**2,0**	
45	6,0	22,41	6,0	6,0	6,0	5,0	4,0	3,3	2,8	**2,4**		
40	6,0	22,98	6,0	6,0	6,0	5,1	4,1	3,4	**2,9**			
35	6,0	23,32	6,0	6,0	6,0	5,2	4,2	**3,5**				
30	6,0	23,62	6,0	6,0	6,0	5,3	**4,3**					
25	6,0	23,81	6,0	6,0	6,0	**5,4**						

Power supply

		
Motor	5,5 kW FI	2 x 4,4 kW FI
t/v	0-70 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 30 kW

Certified quality

CE

EN 14439:2010
Wind C 25

ISO 9001:2015

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	S 16	UCS 16	M 15 /14	FCM 15/ 14
55	42,3	48,0	48,2	43,5
50	48,3	48,0	54,2	43,5
45	48,3	48,0	54,2	46,5
40	48,3	48,0	54,2	46,5
35	48,3	48,0	54,2	46,5
30	48,3	48,0	54,2	46,5
25	48,3	48,0	54,2	46,5

Counter weight

Block 1	5 x 3,15 t
Block 2	-
Block 3	1 x 1,35 t
Total	17,10 t

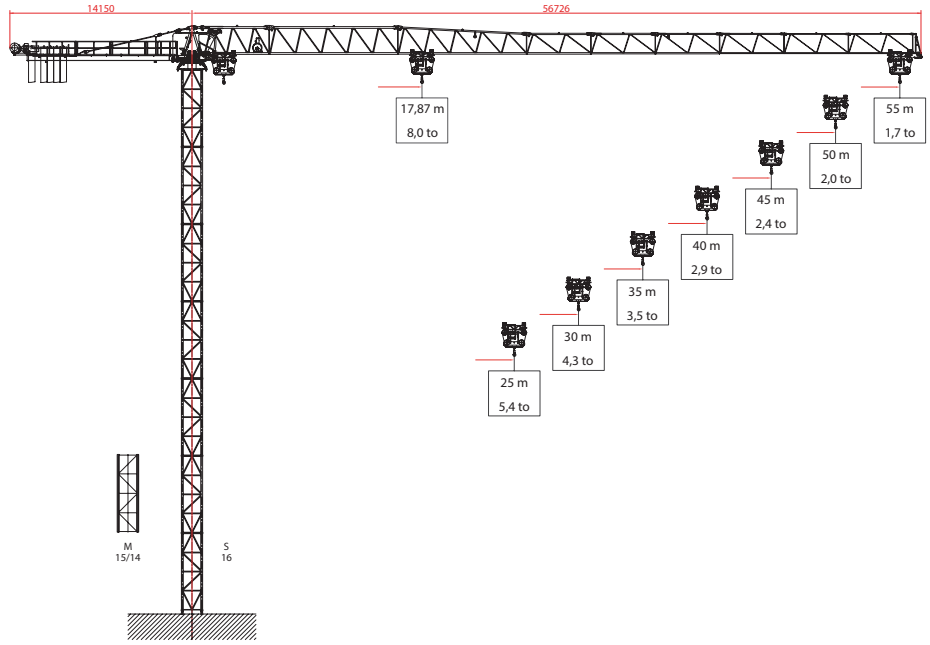
Hoist 30 kW FI

	m [t]	0,4	1	2	3	4,5	6
	v [m/min]	91	70	54	46	35	22
Drum capacity		180 m					

Ropes

	D (mm)	N/mm²
Hoist	14,0	1960
Trolley	8,0	1770

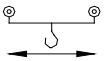
AK 120.8 - 8-ton


14150
56726
17,87 m
8,0 to
55 m
1,7 to
50 m
2,0 to
45 m
2,4 to
40 m
2,9 to
35 m
3,5 to
30 m
4,3 to
25 m
5,4 to
M
15/14
S
16

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	10	15	20	25	30	35	40	45	50	55
55	8,0	16,12	8,0	8,0	6,2	4,7	3,8	3,1	2,6	2,2	1,9	**1,70**
50	8,0	16,40	8,0	8,0	6,3	4,8	3,9	3,2	2,7	2,3	**2,0**	
45	8,0	16,84	8,0	8,0	6,5	5,0	4,0	3,3	2,8	**2,4**		
40	8,0	17,27	8,0	8,0	6,7	5,1	4,1	3,4	**2,9**			
35	8,0	17,51	8,0	8,0	6,8	5,2	4,2	**3,5**				
30	8,0	17,74	8,0	8,0	6,9	5,3	**4,3**					
25	8,0	17,87	8,0	8,0	7,0	**5,4**						

Power supply

		
Motor	5,5 kW FI	2 x 4,4 kW FI
t/v	0,70 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 37 kW

Certified quality

CE

EN 14439:2010
Wind C 25

ISO 9001:2015

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	S 16	UCS 16	M 15 /14	FCM 15/ 14
55	42,3	48,0	48,2	43,5
50	48,3	48,0	54,2	43,5
45	48,3	48,0	54,2	46,5
40	48,3	48,0	54,2	46,5
35	48,3	48,0	54,2	46,5
30	48,3	48,0	54,2	46,5
25	48,3	48,0	54,2	46,5

Counter weight

Block 1	5 x 3,15 t
Block 2	-
Block 3	1 x 1,35 t
Total	17,10 t

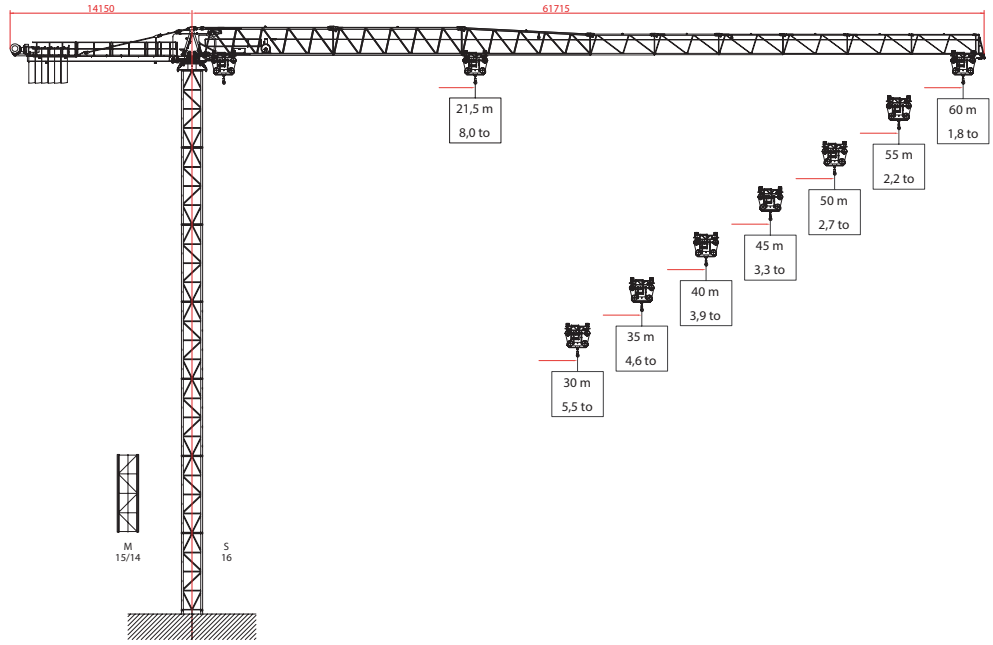
Hoist 37 kW FI

	m [t]	0,6	1,5	3	4,5	6	8
	v [m/min]	92	68	48	41	33	22
Drum capacity	435 m						

Ropes

	D (mm)	N/mm²
Hoist	16,0	1960
Trolley	8,0	1770

AK 150.6 - 6-ton


14150
61715
21,5 m
8,0 to
60 m
1,8 to
55 m
2,2 to
50 m
2,7 to
45 m
3,3 to
40 m
3,9 to
35 m
4,6 to
30 m
5,5 to
M
15/14
S
16

AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	15	20	25	30	35	40	45	50	55	60
60	6,0	23,29	6,0	6,0	5,5	4,4	3,6	3,1	2,6	2,3	2,04	**1,8**
55	6,0	24,60	6,0	6,0	5,8	4,7	3,9	3,3	2,8	2,5	**2,2**	
50	6,0	26,04	6,0	6,0	6,0	5,0	4,2	3,5	3,0	**2,7**		
45	6,0	27,40	6,0	6,0	6,0	5,3	4,4	3,8	**3,3**			
40	6,0	27,87	6,0	6,0	6,0	5,5	4,5	**3,9**				
35	6,0	27,95	6,0	6,0	6,0	5,5	**4,6**					
30	6,0	28,28	6,0	6,0	6,0	**5,6**						

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	S 16	UCS 16	M 15 /14	FCM 15/ 14
60	42,3	48,0	48,2	43,5
55	48,3	48,0	54,2	43,5
50	48,3	48,0	54,2	43,5
45	48,3	48,0	54,2	46,5
40	48,3	48,0	54,2	46,5
35	48,3	48,0	54,2	46,5
30	48,3	48,0	54,2	46,5

Certified quality

CE

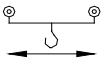
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	6 x 3,15 t
Block 2	2 x 2,10 t
Block 3	-
Total	21,00 t

Power supply

		
Motor	5,5 kW FI	2 x 4,4 kW FI
t/v	0-70 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 30 kW

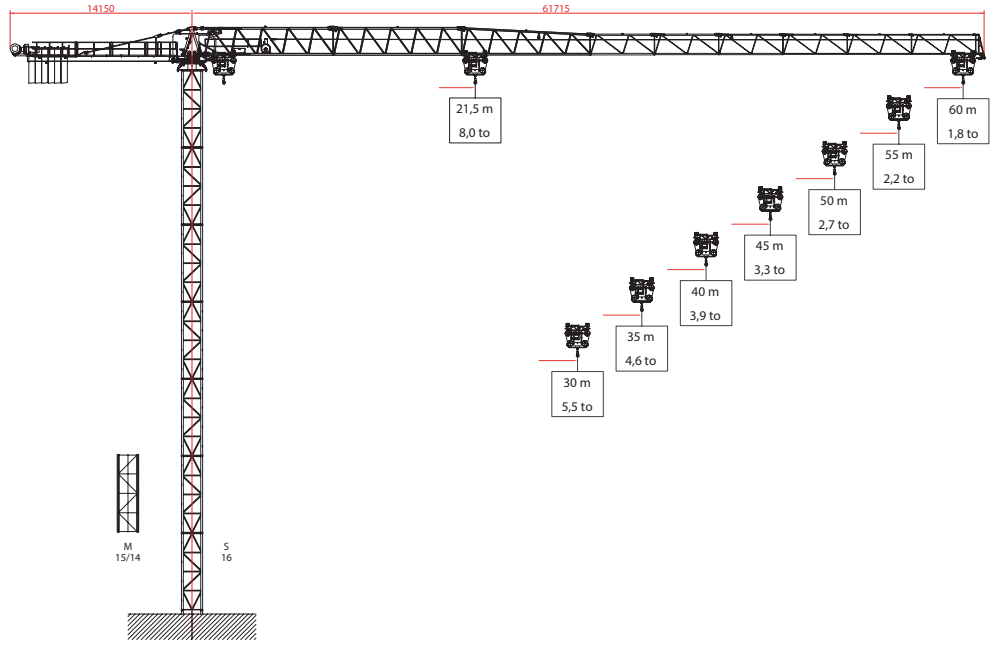
Hoist 30 kW FI

	m [t]	0,4	1	2	3	4,5	6
	v [m/min]	91	70	54	46	35	22
Drum capacity	180 m						

Ropes

	D (mm)	N/mm²
Hoist	16,0	1960
Trolley	8,0	1770

AK 150.8 - 8-ton


14150
61715
21,5 m
8,0 to
60 m
1,8 to
55 m
2,2 to
50 m
2,7 to
45 m
3,3 to
40 m
3,9 to
35 m
4,6 to
30 m
5,5 to
M
15/14
S
16

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	15	20	25	30	35	40	45	50	55	60
60	8,0	18,19	8,0	7,17	5,52	4,44	3,68	3,11	2,67	2,32	2,04	**1,80**
55	8,0	19,21	8,0	7,63	5,89	4,74	3,94	3,33	2,87	2,50	**2,20**	
50	8,0	20,32	8,0	8,0	6,29	5,08	4,22	3,58	3,09	**2,70**		
45	8,0	21,37	8,0	8,0	6,68	5,39	4,49	3,82	**3,30**			
40	8,0	21,73	8,0	8,0	6,81	5,50	4,58	**3,90**				
35	8,0	21,79	8,0	8,0	6,83	5,52	**4,60**					
30	8,0	22,05	8,0	8,0	6,92	**5,60**						

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	S 16	UCS 16	M 15 /14	FCM 15/ 14
60	42,3	48,0	48,2	43,5
55	48,3	48,0	54,2	43,5
50	48,3	48,0	54,2	43,5
45	48,3	48,0	54,2	46,5
40	48,3	48,0	54,2	46,5
35	48,3	48,0	54,2	46,5
30	48,3	48,0	54,2	46,5

Certified quality

CE

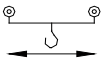
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	6 x 3,15 t
Block 2	1 x 2,10 t
Block 3	-
Total	21,00 t

Power supply

		
Motor	5,5 kW FI	2 x 4,4 kW FI
t/v	0-70 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 37 kW

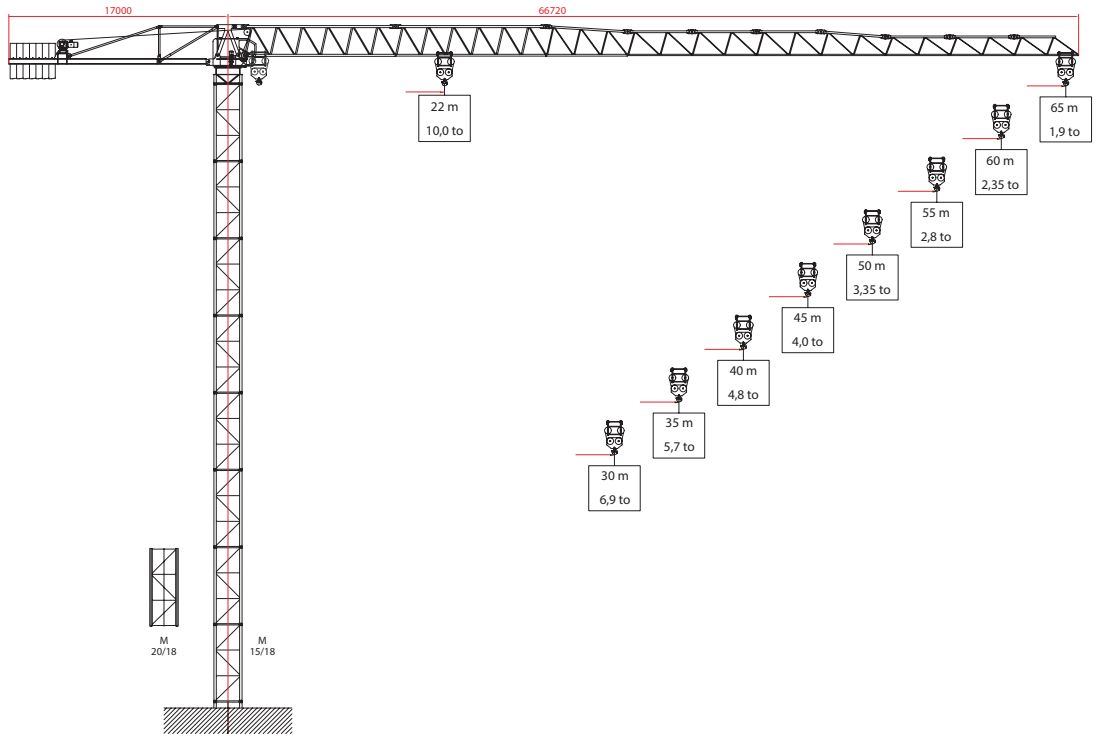
Hoist 37 kW FI

	m [t]	0,6	1,5	3	4,5	6	8
	v [m/min]	92	68	48	41	33	22
Drum capacity	435 m						

Ropes

	D (mm)	N/mm²
Hoist	16,0	1960
Trolley	8,0	1770

AK 180.10 - 10,0-ton



Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	20	25	30	35	40	45	50	55	60	65
65	10,0	18,77	9,27	7,08	5,64	4,63	3,88	3,31	2,85	2,47	2,16	**1,90**
60	10,0	19,76	9,86	7,54	6,03	4,96	4,17	3,56	3,07	2,68	**2,35**	
55	10,0	20,35	10,00	7,82	6,25	5,15	4,34	3,71	3,21	**2,80**		
50	10,0	20,97	10,00	8,11	6,50	5,36	4,52	3,87	**3,35**			
45	10,0	21,49	10,00	8,35	6,70	5,53	4,67	**4,00**				
40	10,0	21,95	10,00	8,57	6,88	5,68	**4,80**					
35	10,0	22,00	10,00	8,59	6,89	**5,70**						
30	10,0	22,01	10,00	8,60	**6,90**							

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 15/18	UCM 15/18	M 20/18	UCM 20/18
65	60,0	51,0	66,0	57,0
60	60,0	51,0	66,0	57,0
55	60,0	51,0	66,0	57,0
54	60,0	51,0	66,0	57,0
45	60,0	51,0	66,0	57,0
40	63,0	54,0	72,0	63,0
35	63,0	54,0	72,0	63,0
30	63,0	54,0	72,0	63,0

Certified quality

CE

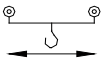
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	6 x 3,15 t
Block 2	-
Block 3	-
Total	18,90 t

Power supply

		
Motor	5,5 kW FI	2 x 5,5 kW FI
t/v	0-80 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 45 KW

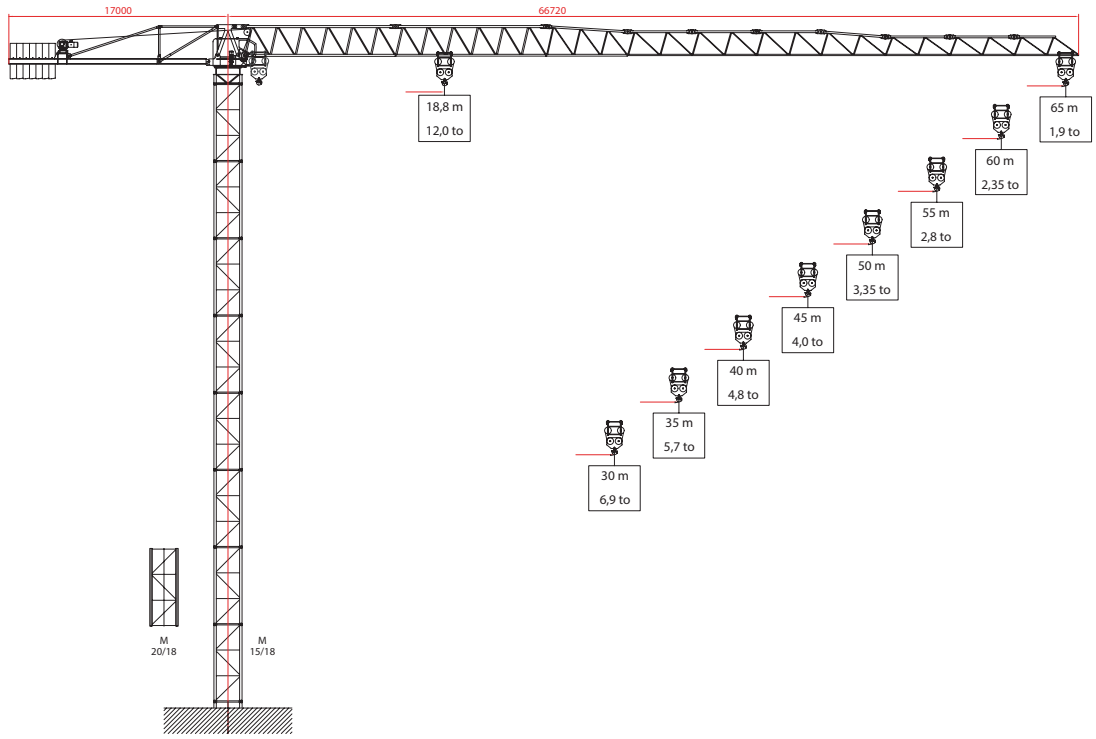
Hoist 45 kW FI

	m [t]	0,6	2	4	6	8	10
	v [m/min]	85	60	45	38	28	21
Drum capacity	240 m						

Ropes

	D (mm)	N/mm²
Hoist	18,0	1960
Trolley	8,0	1770

AK 180.12 - 12,0-ton



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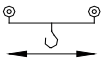
Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	20	25	30	35	40	45	50	55	60	65
65	12,0	16,11	9,27	7,08	5,64	4,63	3,88	3,31	2,85	2,47	2,16	**1,90**
60	12,0	16,95	9,86	7,54	6,03	4,96	4,17	3,56	3,07	2,68	**2,35**	
55	12,0	17,44	10,21	7,82	6,25	5,15	4,34	3,71	3,21	**2,80**		
50	12,0	17,97	10,58	8,11	6,50	5,36	4,52	3,87	**3,35**			
45	12,0	18,41	10,89	8,35	6,70	5,53	4,67	**4,00**				
40	12,0	18,80	11,16	8,57	6,88	5,68	**4,80**					
35	12,0	18,84	11,19	8,59	6,89	**5,70**						
30	12,0	18,86	11,20	8,60	**6,90**							

Power supply

		
Motor	5,5 kW FI	2 x 5,5 kW FI
t/v	0-80 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 55 KW

Certified quality

CE

EN 14439:2010
Wind C 25

ISO 9001:2015

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 15/18	UCM 15/18	M 20/18	UCM 20/18
65	60,0	51,0	66,0	57,0
60	60,0	51,0	66,0	57,0
55	60,0	51,0	66,0	57,0
54	60,0	51,0	66,0	57,0
45	60,0	51,0	66,0	57,0
40	63,0	54,0	72,0	63,0
35	63,0	54,0	72,0	63,0
30	63,0	54,0	72,0	63,0

Counter weight

Block 1	6 x 3,15 t
Block 2	-
Block 3	-
Total	18,90 t

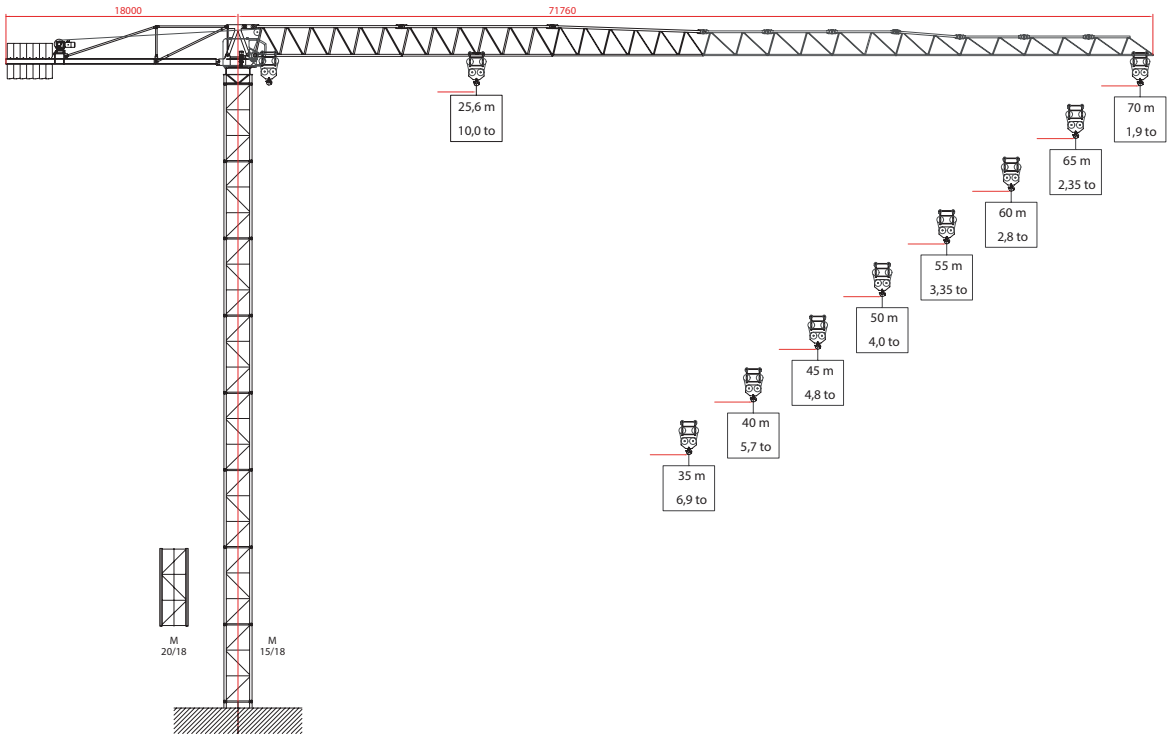
Hoist 55 kW FI

	m [t]	0,9	2	4	6	8	12
	v [m/min]	85	64	50	40	35	21
Drum capacity	240 m						

Ropes

	D (mm)	N/mm²
Hoist	18,0	1960
Trolley	8,0	1770

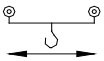
AK 220.10 - 10,0-ton



Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	25	30	35	40	45	50	55	60	65	70
70	10,0	20,15	7,72	6,18	5,09	4,28	3,66	3,16	2,76	2,42	2,14	**1,90**
65	10,0	21,34	8,28	6,64	5,48	4,62	3,96	3,43	3,01	2,65	**2,35**	
60	10,0	22,13	8,65	6,94	5,74	4,85	4,16	3,62	3,17	**2,80**		
55	10,0	23,00	9,06	7,28	6,03	5,10	4,38	3,81	**3,35**			
50	10,0	23,81	9,44	7,60	6,30	5,33	4,59	**4,00**				
45	10,0	24,63	9,82	7,91	6,57	5,57	**4,80**					
40	10,0	25,08	10,00	8,09	6,72	**5,70**						
35	10,0	25,63	10,00	8,30	**6,90**							

Power supply

		
Motor	5,5 kW FI	2 x 5,5 kW FI
t/v	0-80 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 45 KW

Certified quality

CE

EN 14439:2010
Wind C 25

ISO 9001:2015

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 15/18	UCM 15/18	M 20/18	UCM 20/18
70	54,0	48,0	63,0	51,0
65	54,0	48,0	63,0	51,0
60	54,0	48,0	63,0	51,0
55	54,0	48,0	63,0	51,0
50	57,0	48,0	66,0	54,0
45	57,0	48,0	66,0	54,0
40	60,0	51,0	69,0	54,0
35	60,0	51,0	72,0	57,0

Hoist 45 kW FI

	m [t]	0,6	2	4	6	8	10
	v [m/min]	85	60	45	38	28	21
Drum capacity		240 m					

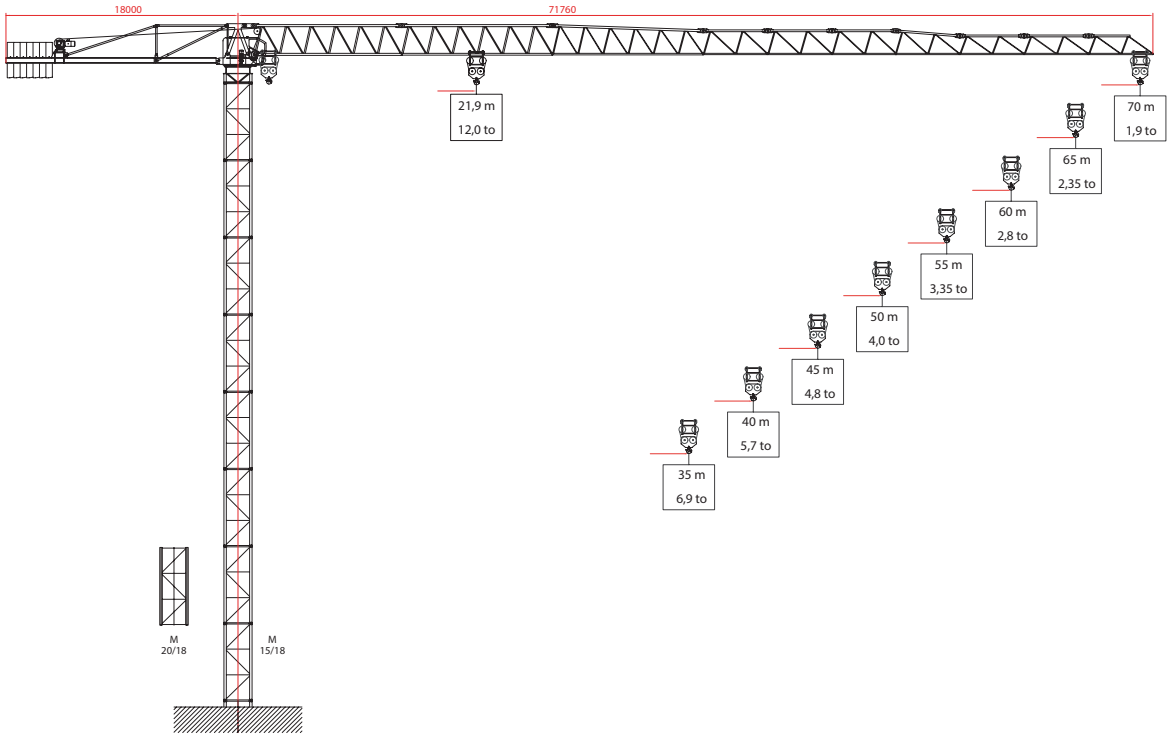
Counter weight

Block 1	5 x 3,15 t
Block 2	3 x 2,10 t
Block 3	-
Total	22,05 t

Ropes

	D (mm)	N/mm²
Hoist	18,0	1960
Trolley	8,0	1770

AK 220.12 - 12,0-ton



AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	25	30	35	40	45	50	55	60	65	70
70	12,0	17,27	7,72	6,18	5,09	4,28	3,66	3,16	2,76	2,42	2,14	**1,90**
65	12,0	18,28	8,28	6,64	5,48	4,62	3,96	3,43	3,01	2,65	**2,35**	
60	12,0	18,95	8,65	6,94	5,74	4,85	4,16	3,62	3,17	**2,80**		
55	12,0	19,69	9,06	7,28	6,03	5,10	4,38	3,81	**3,35**			
50	12,0	20,38	9,44	7,60	6,30	5,33	4,59	**4,00**				
45	12,0	21,07	9,82	7,91	6,57	5,57	**4,80**					
40	12,0	21,45	10,04	8,09	6,72	**5,70**						
35	12,0	21,92	10,29	8,30	**6,90**							

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 15/18	UCM 15/18	M 20/18	UCM 20/18
70	54,0	48,0	63,0	51,0
65	54,0	48,0	63,0	51,0
60	54,0	48,0	63,0	51,0
55	54,0	48,0	63,0	51,0
50	57,0	48,0	66,0	54,0
45	57,0	48,0	66,0	54,0
40	60,0	51,0	69,0	54,0
35	60,0	51,0	72,0	57,0

Certified quality

CE

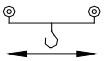
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	5 x 3,15 t
Block 2	3 x 2,10 t
Block 3	-
Total	22,05 t

Power supply

		
Motor	5,5 kW FI	2 x 5,5 kW FI
t/v	0-80 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 55 KW

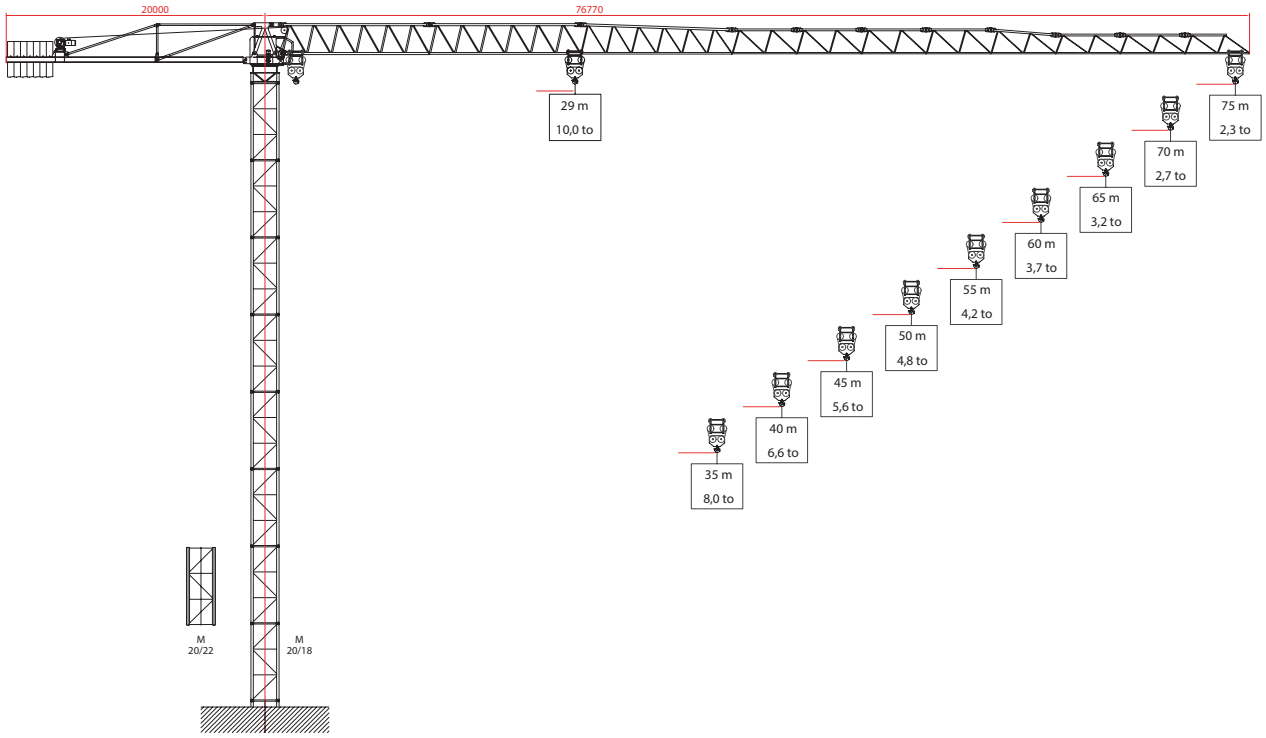
Hoist 55 kW FI

m [t]	0,9	2	4	6	8	12
v [m/min]	85	64	50	40	35	21
Drum capacity	240 m					

Ropes

	D (mm)	N/mm²
Hoist	18,0	1960
Trolley	8,0	1770

AK 250.10 - 10,0-ton



AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	30	35	40	45	50	55	60	65	70	75
75	10,0	24,76	7,94	6,57	5,56	4,77	4,15	3,64	3,22	2,87	2,56	**2,30**
70	10,0	25,60	8,27	6,85	5,80	4,99	4,34	3,82	3,38	3,01	**2,70**	
65	10,0	26,65	8,68	7,20	6,11	5,26	4,59	4,04	3,58	**3,20**		
60	10,0	27,25	8,92	7,41	6,28	5,42	4,73	4,17	**3,70**			
55	10,0	27,41	8,98	7,46	6,33	5,46	4,76	**4,20**				
50	10,0	27,57	9,04	7,51	6,38	5,50	**4,80**					
45	10,0	27,96	9,20	7,64	6,49	**5,60**						
40	10,0	28,34	9,35	7,77	**6,60**							
35	10,0	29,02	9,62	**8,00**								

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 20/18	UCM 20/18	M 20/22	UCM 20/22
75	57,0	48,0	66,0	60,0
70	57,0	48,0	66,0	60,0
65	60,0	51,0	69,0	63,0
60	60,0	51,0	69,0	63,0
55	60,0	51,0	69,0	63,0
50	63,0	54,0	72,0	63,0
45	63,0	54,0	72,0	63,0
40	63,0	54,0	72,0	63,0
35	63,0	54,0	72,0	63,0

Certified quality

CE

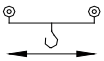
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	5 x 3,15 t
Block 2	3 x 2,10 t
Block 3	-
Total	22,05 t

Power supply

		
Motor	7,5 kW FI	3 x 5,5 kW FI
t/v	0-80 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 45 KW

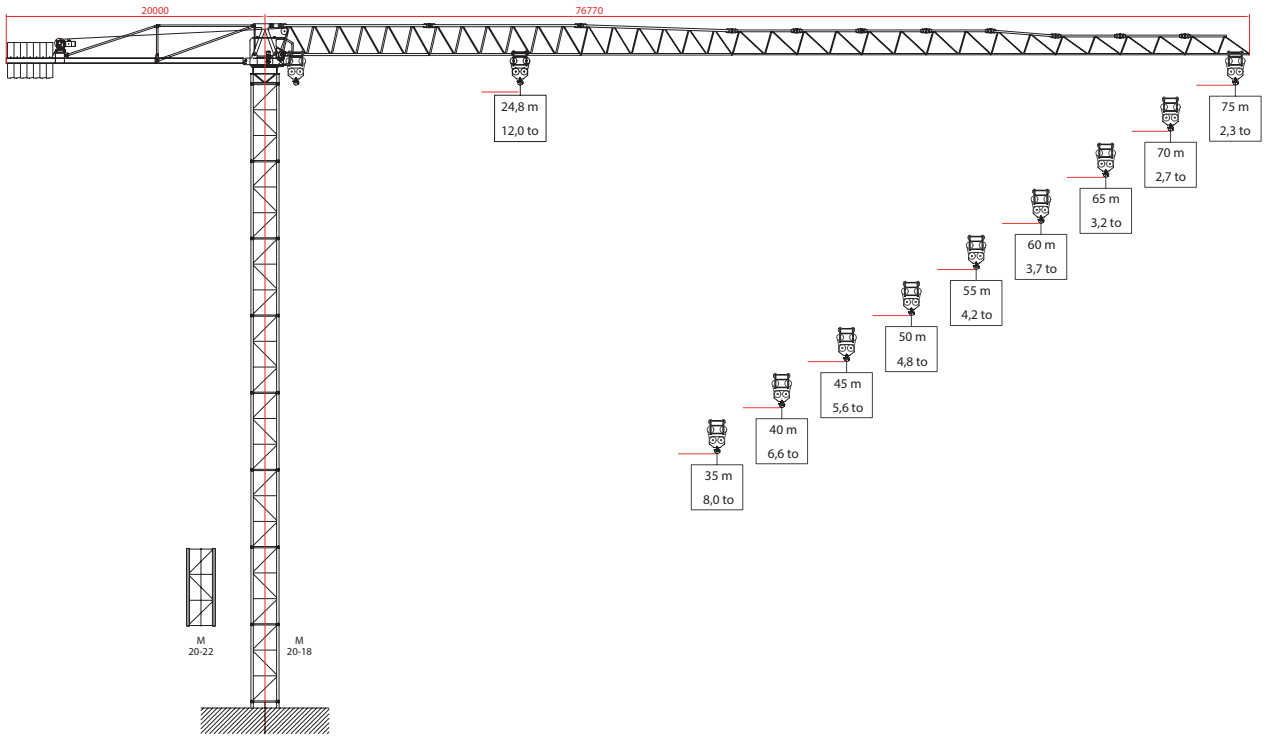
Hoist 45 kW FI

	m [t]	0,6	2	4	6	8	10
	v [m/min]	85	60	45	38	28	21
Drum capacity	240 m						

Ropes

	D (mm)	N/mm²
Hoist	20,0	1960
Trolley	10,0	1770

AK 250.12 - 12,0-ton



AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	30	35	40	45	50	55	60	65	70	75
75	12,0	21,22	7,94	6,57	5,56	4,77	4,15	3,64	3,22	2,87	2,56	**2,30**
70	12,0	21,93	8,27	6,85	5,80	4,99	4,34	3,82	3,38	3,01	**2,70**	
65	12,0	22,82	8,68	7,20	6,11	5,26	4,59	4,04	3,58	**3,20**		
60	12,0	23,34	8,92	7,41	6,28	5,42	4,73	4,17	**3,70**			
55	12,0	23,48	8,98	7,46	6,33	5,46	4,76	**4,20**				
50	12,0	23,61	9,04	7,51	6,38	5,50	**4,80**					
45	12,0	23,94	9,20	7,64	6,49	**5,60**						
40	12,0	24,26	9,35	7,77	**6,60**							
35	12,0	24,84	9,62	**8,00**								

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 20/18	UCM 20/18	M 20/22	UCM 20/22
75	57,0	48,0	66,0	60,0
70	57,0	48,0	66,0	60,0
65	60,0	51,0	69,0	63,0
60	60,0	51,0	69,0	63,0
55	60,0	51,0	69,0	63,0
50	63,0	54,0	72,0	63,0
45	63,0	54,0	72,0	63,0
40	63,0	54,0	72,0	63,0
35	63,0	54,0	72,0	63,0

Certified quality

CE

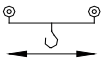
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	5 x 3,15 t
Block 2	3 x 2,10 t
Block 3	-
Total	22,05 t

Power supply

		
Motor	7,5 kW FI	3 x 5,5 kW FI
t/v	0-80 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 55 KW

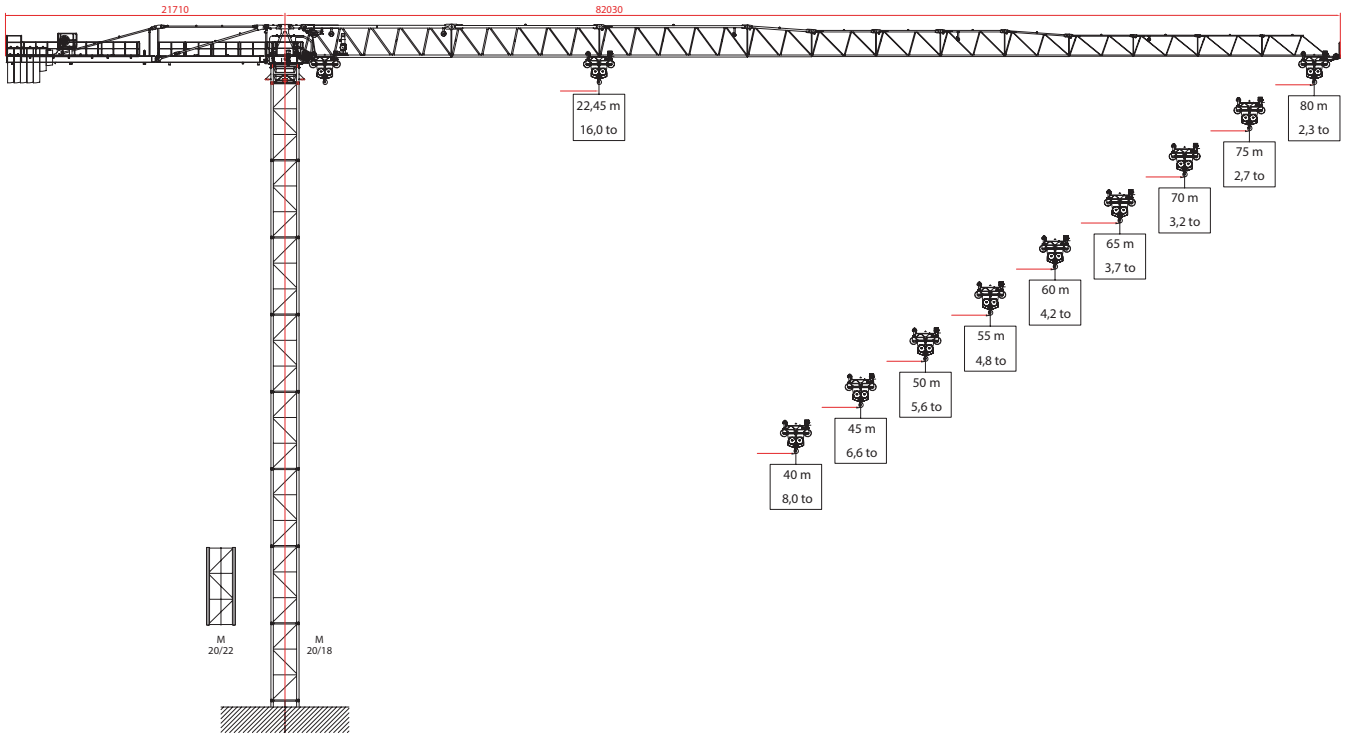
Hoist 55 kW FI

	m [t]	0,9	2	4	6	8	12
	v [m/min]	85	64	50	40	35	21
Drum capacity	240 m						

Ropes

	D (mm)	N/mm²
Hoist	20,0	1960
Trolley	10,0	1770

AK 310.16 - 16,0-ton



AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	25	40	45	50	55	60	65	70	75	80
80	16,0	18,75	11,34	6,32	5,41	4,69	4,11	3,62	3,21	2,86	2,56	**2,30**
75	16,0	19,33	11,77	6,58	5,64	4,90	4,29	3,79	3,37	3,01	**2,70**	
70	16,0	20,06	12,31	6,91	5,94	5,17	5,54	4,01	3,58	**3,20**		
65	16,0	20,51	12,65	7,12	6,12	5,33	4,68	4,15	**3,70**			
60	16,0	20,68	12,78	7,19	6,19	5,39	4,74	**4,20**				
55	16,0	20,86	12,91	7,28	6,26	5,46	**4,80**					
50	16,0	21,26	13,21	7,46	6,42	**5,60**						
45	16,0	21,70	13,54	7,66	**6,60**							
40	16,0	22,45	14,10	**8,00**								

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 20/18	UCM 20/18	M 20/22	UCM 20/22
80	57,0	48,0	66,0	60,0
75	57,0	48,0	66,0	60,0
70	60,0	51,0	72,0	63,0
65	60,0	51,0	72,0	63,0
60	60,0	51,0	72,0	66,0
55	60,0	51,0	72,0	66,0
50	63,0	54,0	78,0	66,0
45	63,0	54,0	78,0	66,0
40	66,0	54,0	78,0	66,0

Certified quality

CE

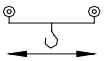
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	7 x 3,15 t
Block 2	1 x 2,10 t
Block 3	1 x 1,35 t
Total	25,50 t

Power supply

		
Motor	11 kW FI	3 x 7,5 kW FI
t/v	0-82 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 75 KW

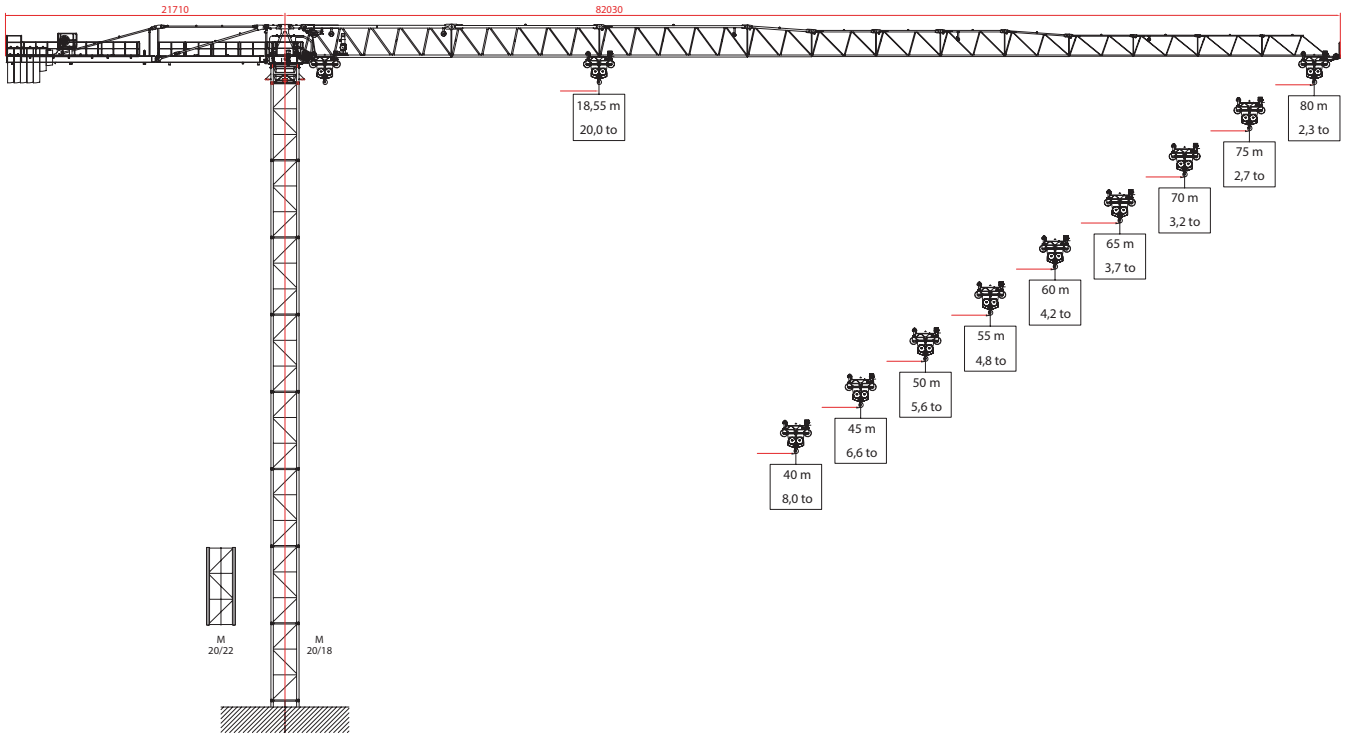
Hoist 75 kW FI

	m [t]	1,4	2,5	5	9	13	16
	v [m/min]	78	65	48	37	30	22
Drum capacity	310 m						

Ropes

	D (mm)	N/mm²
Hoist	22,0	1960
Trolley	10,0	1960

AK 310.20 - 20,0-ton



AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	25	40	45	50	55	60	65	70	75	80
80	20,0	15,54	11,34	6,32	5,41	4,69	4,11	3,62	3,21	2,86	2,56	**2,30**
75	20,0	16,01	11,77	6,58	5,64	4,90	4,29	3,79	3,37	3,01	**2,70**	
70	20,0	16,61	12,31	6,91	5,94	5,17	4,54	4,01	3,58	**3,20**		
65	20,0	16,98	12,65	7,12	6,12	5,33	4,68	4,15	**3,70**			
60	20,0	17,11	12,78	7,19	6,19	5,39	4,74	**4,20**				
55	20,0	17,26	12,91	7,28	6,26	5,46	**4,80**					
50	20,0	17,59	13,21	7,46	6,42	**5,60**						
45	20,0	17,95	13,54	7,66	**6,60**							
40	20,0	18,55	14,10	**8,00**								

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 20/18	UCM 20/18	M 20/22	UCM 20/22
80	57,0	48,0	66,0	60,0
75	57,0	48,0	66,0	60,0
70	60,0	51,0	72,0	63,0
65	60,0	51,0	72,0	63,0
60	60,0	51,0	72,0	66,0
55	60,0	51,0	72,0	66,0
50	63,0	54,0	78,0	66,0
45	63,0	54,0	78,0	66,0
40	66,0	54,0	78,0	66,0

Certified quality

CE

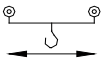
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	7 x 3,15 t
Block 2	1 x 2,10 t
Block 3	1 x 1,35 t
Total	25,50 t

Power supply

		
Motor	11 kW FI	3 x 7,5 kW FI
t/v	0-82 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 90 kW

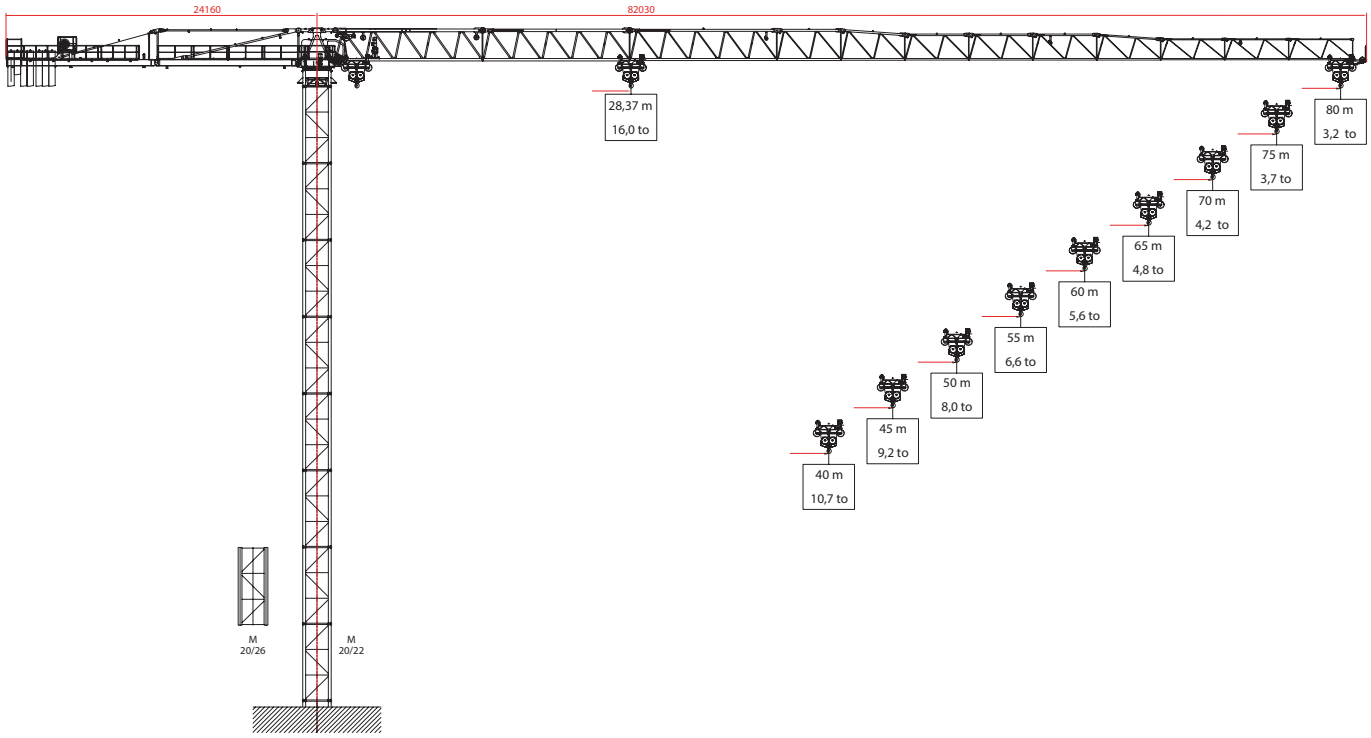
Hoist 90 kW FI

	m [t]	1,8	3	6	9	15,5	20
	v [m/min]	79	65	50	41	30	22
Drum capacity	310 m						

Ropes

	D (mm)	N/mm²
Hoist	22,0	1960
Trolley	10,0	1960

AK 410.16 - 16,0-ton



AMS KRANBAU GMBH

Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	25	40	45	50	55	60	65	70	75	80
80	16,0	22,78	14,34	8,15	7,03	6,15	5,43	4,83	4,33	3,90	3,52	**3,20**
75	16,0	23,51	14,89	8,48	7,33	6,41	5,67	5,05	4,53	4,08	**3,70**	
70	16,0	23,96	15,23	8,69	7,51	6,58	5,82	5,19	4,65	**4,20**		
65	16,0	24,49	15,62	8,93	7,73	6,77	5,99	5,34	**4,80**			
60	16,0	25,34	16,00	9,32	8,07	7,08	6,27	**5,60**				
55	16,0	26,35	16,00	9,78	8,48	7,44	**6,60**					
50	16,0	27,89	16,00	10,48	9,10	**8,00**						
45	16,0	28,15	16,00	10,60	**9,20**							
40	16,0	28,37	16,00	**10,70**								

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 20/22	UCM 20/22	M 20/26	UCM 20/26
80	57,0	48,0	66,0	60,0
75	57,0	48,0	66,0	60,0
70	60,0	51,0	72,0	63,0
65	60,0	51,0	72,0	63,0
60	60,0	51,0	72,0	66,0
55	60,0	51,0	72,0	66,0
50	63,0	54,0	78,0	66,0
45	63,0	54,0	78,0	66,0
40	66,0	54,0	78,0	66,0

Certified quality

CE

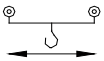
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	8 x 3,15 t
Block 2	1 x 2,10 t
Block 3	1 x 1,35 t
Total	28,65 t

Power supply

		
Motor	11 kW FI	3 x 7,5 kW FI
t/v	0-82 m/min	0,8 rpm
Power requirement 400V (±10%) - 50 Hz		Hoist 75 kW

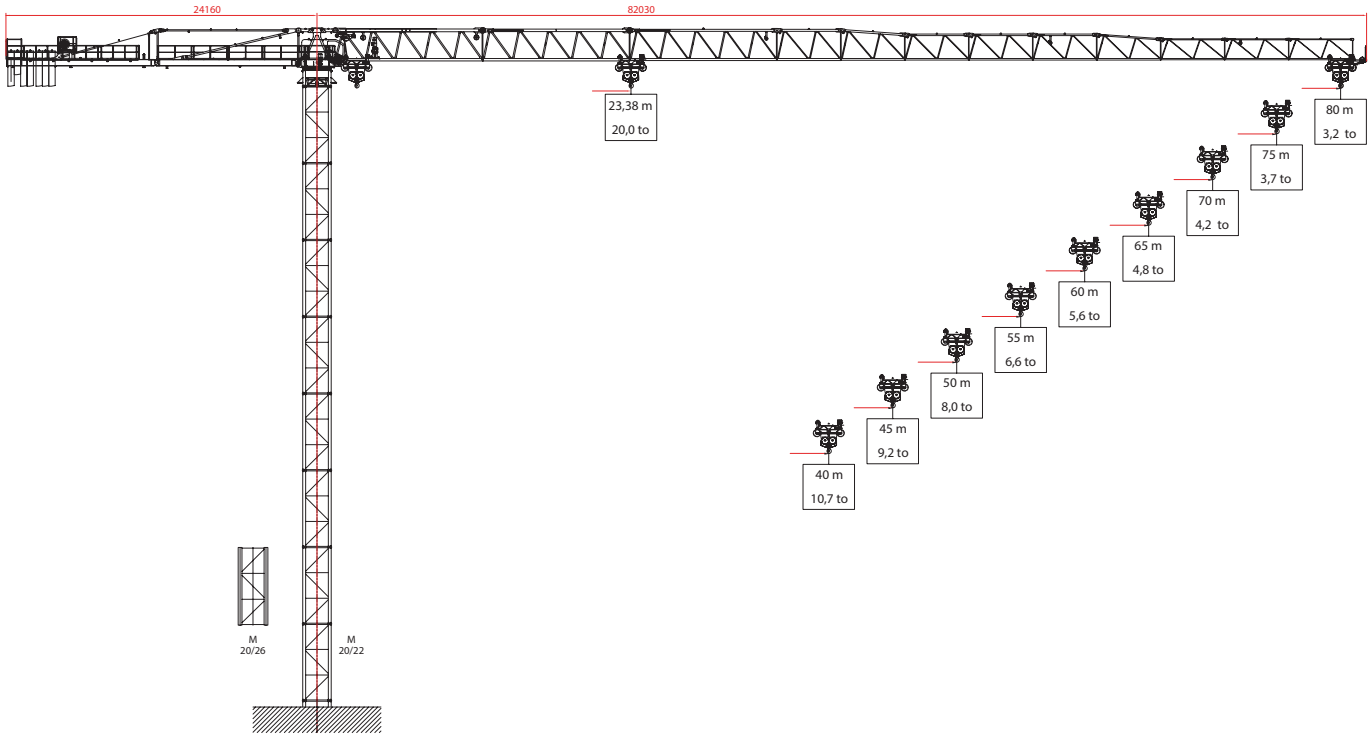
Hoist 75 kW FI

	m [t]	1,4	2,5	5	9	13	16
	v [m/min]	78	65	48	37	30	22
Drum capacity	310 m						

Ropes

	D (mm)	N/mm²
Hoist	22,0	1960
Trolley	10,0	1960

AK 410.20 - 20,0-ton



Radius & Capacity

Jib	max load		Jib radius									
m	to	==>	25	40	45	50	55	60	65	70	75	80
80	20,0	18,82	14,34	8,15	7,03	6,15	5,43	4,83	4,33	3,90	3,52	**3,20**
75	20,0	19,42	14,89	8,48	7,33	6,41	5,67	5,05	4,53	4,08	**3,70**	
70	20,0	19,79	15,23	8,69	7,51	6,58	5,82	5,19	4,65	**4,20**		
65	20,0	20,22	15,62	8,93	7,73	6,77	5,99	5,34	**4,80**			
60	20,0	20,91	16,26	9,32	8,07	7,08	6,27	**5,60**				
55	20,0	21,73	17,01	9,78	8,48	7,44	**6,60**					
50	20,0	22,99	18,16	10,48	9,10	**8,00**						
45	20,0	23,19	18,35	10,60	**9,20**							
40	20,0	23,38	18,52	**10,70**								

Tower heights

Jib (m)	Standard Tower		Option	
	Foundation	Cross	Foundation	Cross
	M 20/22	UCM 20/22	M 20/26	UCM 20/26
80	57,0	48,0	66,0	60,0
75	57,0	48,0	66,0	60,0
70	60,0	51,0	72,0	63,0
65	60,0	51,0	72,0	63,0
60	60,0	51,0	72,0	66,0
55	60,0	51,0	72,0	66,0
50	63,0	54,0	78,0	66,0
45	63,0	54,0	78,0	66,0
40	66,0	54,0	78,0	66,0

Certified quality

CE

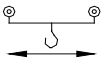
EN 14439:2010
Wind C 25

ISO 9001:2015

Counter weight

Block 1	8 x 3,15 t
Block 2	1 x 2,10 t
Block 3	1 x 1,35 t
Total	28,65 t

Power supply

		
Motor	11 kW FI	3 x 7,5 kW FI
t/v	0-82 m/min	0,8 rpm
	Power requirement 400V (±10%) - 50 Hz	Hoist 90 kW

Hoist 90 kW FI

	m [t]	1,8	3	6	9	15,5	20
	v [m/min]	79	65	50	41	30	22
Drum capacity		310 m					

Ropes

	D (mm)	N/mm²
Hoist	22,0	1960
Trolley	10,0	1960

Masten und weiter Erweiterungen | Masts and further Enhancements

Das Kantenprofil des S16-Mastsystems ist ein geschweißter Winkelkasten. Es kann für kleinere Kräne mit geringen Anforderungen, auf freistehenden Höhen verwendet werden. Dieses Standardprodukt ist sehr leicht und misst 1,6 m von Ecke zu Ecke. Turmsegmente sind verfügbar in 6m oder 12m Länge.

Das „M" -Mast-System hat ein Systemmaß von 1,5m, 2,0m oder 2,5 m. Die Eckstücke sind aus HEM, Abmessungen von140mm bis 260mm Breite. Für Projekte, bei denen mehr Höhe des Krans wird benötigt, ist dieses System das Beste. Das HEM-Profil nutzt seine Materialeigenschaften am besten.

Das H-Profil bietet den besten Querschnitt, um die resultierenden Kräfte zu übertragen und ermöglicht extrem hohe freistehende Krane. Mit Adapterrahmen und Adapter-Mastsegmenten ist eine Kombination verschiedener Mastabmessungen möglich. Standardhöhen für den „M" Typ Masten sind 6m und 12m.

Alle AMS-Mastsegmente sind über zwei Zuganker an jede Ecke verbunden. Abgesehen vom M20 / 26 passen alle Segmente in einen Standard-Container.

Neben dem umfangreichen Programm an Türmen ist ein umfangreiches Sortiment an Erweiterungen verfügbar, z. B. Fundamentanker, Fundamentkreuze, Unterwagen oder Portale. Fahrwerke für die Unterwagen sind ebenfalls für jeden Typ verfügbar. Außerdem stehen interne Klettereinrichtung oder externe Kletterkäfige zur Verfügung. Das Design der Krane erlaubt das selbstständige Außenklettern.

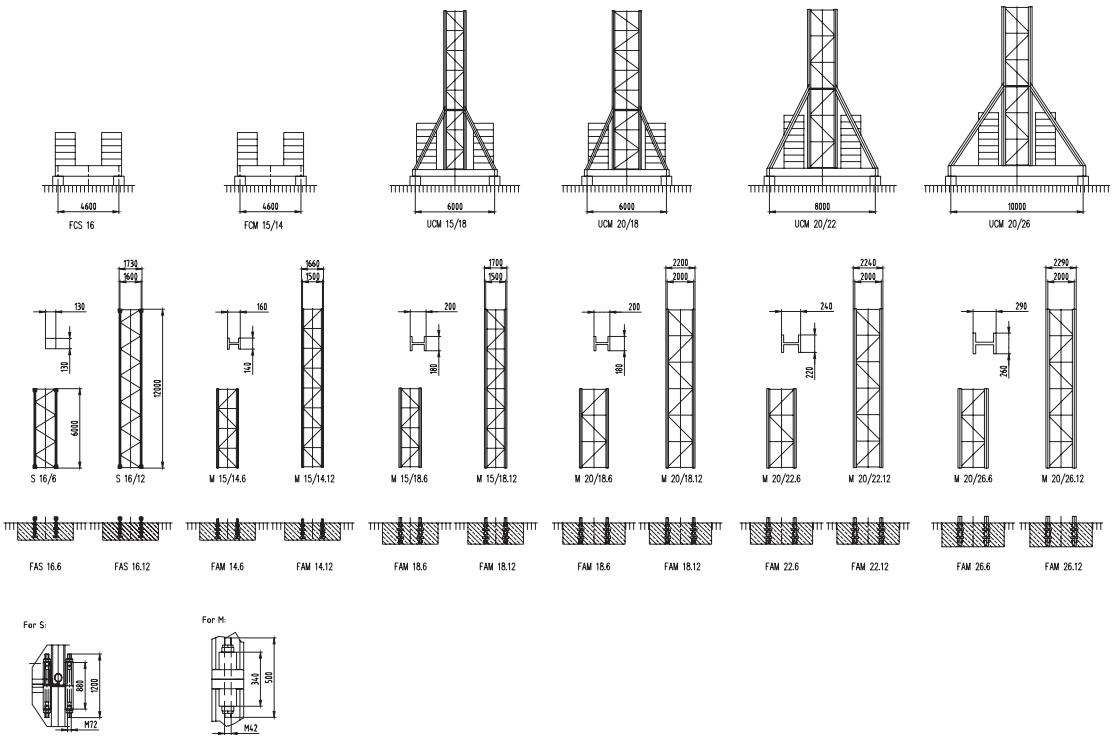
The edge-profile of the S16-mast system is a welded rectangular profile. It can be used for smaller cranes and less requirements on free standing heights. This standard product is very light and measures 1.6m from corner to corner. Sections are available in 6m or 12m length.

The „M"-mast system measures corner to corner 1.5m, 2.0m or 2.5m. Its edges come in an H-beam profile, measuring from 140mm to 260mm width. For projects where more free standing height of the crane is needed, this system is the best.

The H-form uses its material properties the best. It gives the most possible surface to transfer the resulting forces and allows extremely high free standing cranes. With adapter frames and adapting mast segments a combination of different mast dimensions is possible. Standard hights for the "M"-type mast are 6m and 12m.

All AMS mast segments are connected through two tie rods on each corner and up to the M20/26 all sections fit into a standard container.

Besides the extensive program of masts, of course appropriate enhancements are available, e.g. foundation anchors suitable to the dimensions of the edges of the mast, foundation crosses, undercarriages or portals. Bogies for the undercarriages are available for each type. Furthermore internal climbing units or external climbing cages are available. The designs of the upper cranes allow that the trolley respectively the luffing jib can position the mast section to be inserted by its own.


4600
FCS 16
4600
FCM 15/14
6000
UCM 15/18
6000
UCM 20/18
8000
UCM 20/22
10000
UCM 20/26
1730
1600
130
130
6000
12000
S 16/6
S 16/12
1660
1500
160
140
M 15/14.6
M 15/14.12
1700
1500
200
180
M 15/18.6
M 15/18.12
2200
2000
200
180
M 20/18.6
M 20/18.12
2240
2000
240
220
M 20/22.6
M 20/22.12
2290
2000
290
260
M 20/26.6
M 20/26.12
FAS 16.6
FAS 16.12
FAM 14.6
FAM 14.12
FAM 18.6
FAM 18.12
FAM 18.6
FAM 18.12
FAM 22.6
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FAM 26.6
FAM 26.12
For S:
868
1200
M72
For M:
348
500
M42

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