

# ATF 400G-6

400 TON MAX. LIFTING CAPACITY

EU STAGE IV

# ALL TERRAIN CRANE



# Table of contents · Inhaltsverzeichnis · Table des matières Índice · Sommario · Оглавление

## General · Allgemein · Généralités · Generalidades · Generalità · Общие положения

Boom systems · Auslegersysteme · Systèmes de flèche · Sistema de pluma · Sistemi di bracci · Конфигурации стрелы 4 - 7

Vehicle dimensions · Fahrzeugabmessungen · Dimensions du véhicule · Dimensiones del vehículo  
Dimensioni veicolo · Габариты машины 8

## On-road and off-road driving · Straßen- und Geländefahrt · Marche route et tout terrain Traslado por carretera y todoterreno · Marcia su strada e fuori strada · Движение по дорогам и бездорожью

Axle loads · Achslasten · Charges par essieu · Cargas por eje · Carichi assiali · Нагрузка на ось 10

Speeds and gradeability · Geschwindigkeiten und Steigfähigkeit · Vitesses de conduite et gravissement de pente  
Velocidades y pendientes superables · Velocità e pendenza · Скорость и грузоподъемность 10

Steering · Lenkung · Direction · Dirección · Sterzo · Рулевое управление 10

## Transport · Transporte · Trasporto · Транспортировка

Counterweight · Gegengewicht · Contrepoids · Contrapeso · Contrappeso · Противовес 12 - 13

Carrier counterweight · Gegengewichtsträger · Porte-contrepoids  
Depósito del contrapeso · Supporto contrappeso · Держатель противовеса 13

Jibs · Spitzen · Fléchettes · Plumines · Punte · гусек 14 - 18

Hose drum for hydraulic jib · Schlauchtrommel für hydraulische Spitze · Tambour de flexible pour fléchette hydraulique  
Devanadera para plumín hidráulico · Aspo raccoglītubo per punta idraulica · Барабан для намотки шланга для гидравлического гуська 18

Power-System 18

## Operation · Einsatz · Utilisation · Uso · Эксплуатация

Main boom · Hauptausleger · Flèche principale · Pluma principal · Braccio principale · Главная стрела 20

Swing mechanism · Drehwerk · Groupe de rotation · Mecanismo de giro · Gruppo di rotazione · Поворотный механизм 20

Winches · Hubwinden · Treuils · Cabrestantes · Argani · Лебедки 20

Hook blocks · Unterflaschen · Moufles · Pastecas de carga · Bozzelli · Крюковые обоймы 20

Working ranges and lifting capacities · Arbeitsbereiche und Traglasten · Rayons de travail et charges de levage  
Áreas de trabajo y cargas · Aree di lavoro e portate · Рабочие зоны и грузоподъемность 22 - 100

## Equipment · Ausstattung · Équipement · Equipamiento · Equipaggiamento · Оборудование

Equipment · Ausstattung · Équipement · Equipamiento · Equipaggiamento · Оборудование 102 - 108

## Additional information · Zusatzinformationen · Informations supplémentaires Información adicional · Altre informazioni · Дополнительная информация

Remarks · Anmerkungen · Remarques · Notas · Annotazioni · Примечания 110 - 111

Symbols · Symbolerklärung · Glossaire des symboles · Glosario de simbolos  
Spiegazione dei simboli · Условные обозначения 112

# GENERAL TECHNICAL DATA

ALLGEMEINE TECHNISCHE DATEN

CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES

DATOS TÉCNICOS GENERALES

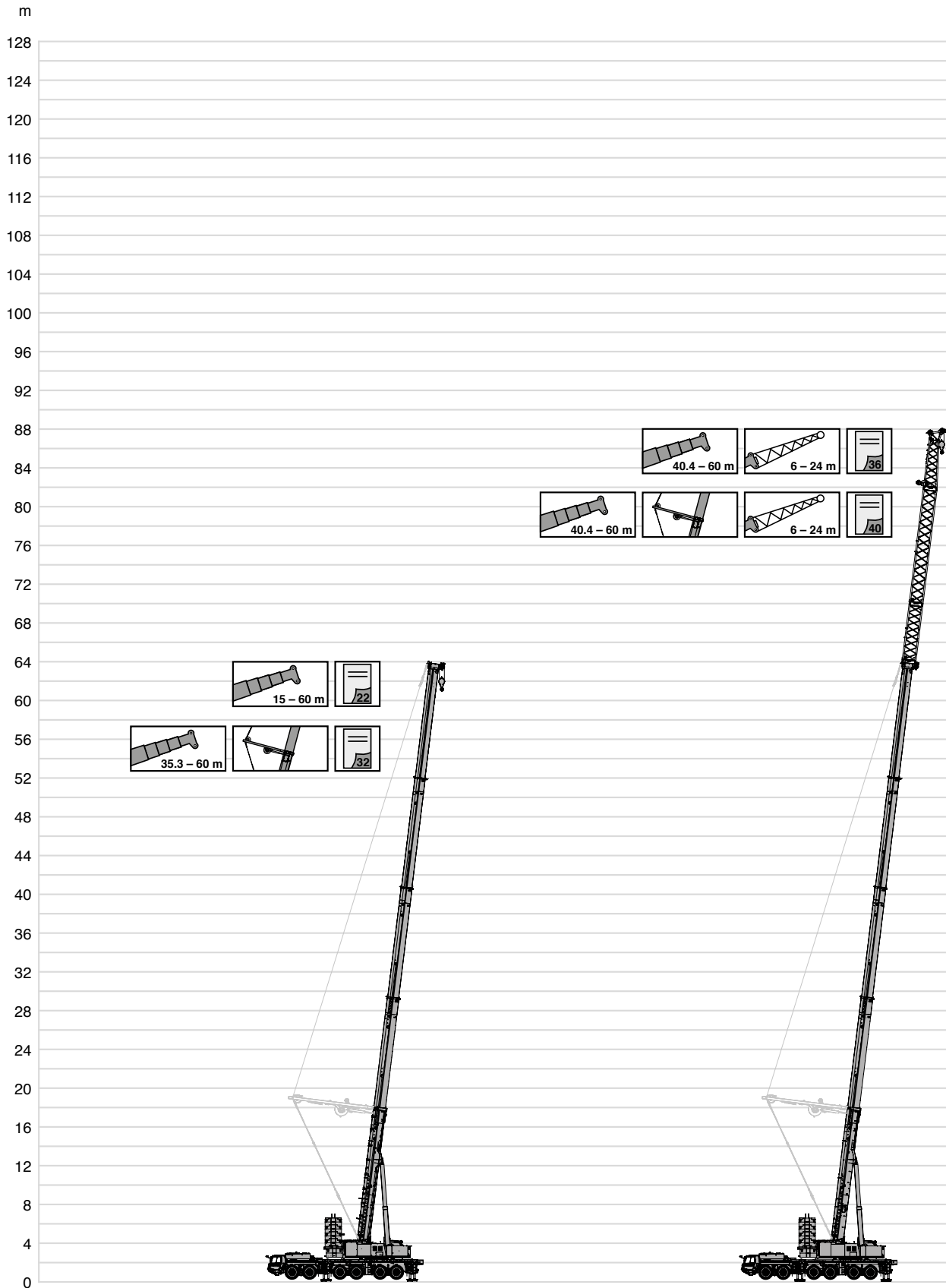
DATI TECNICI GENERALI

ОБЩИЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

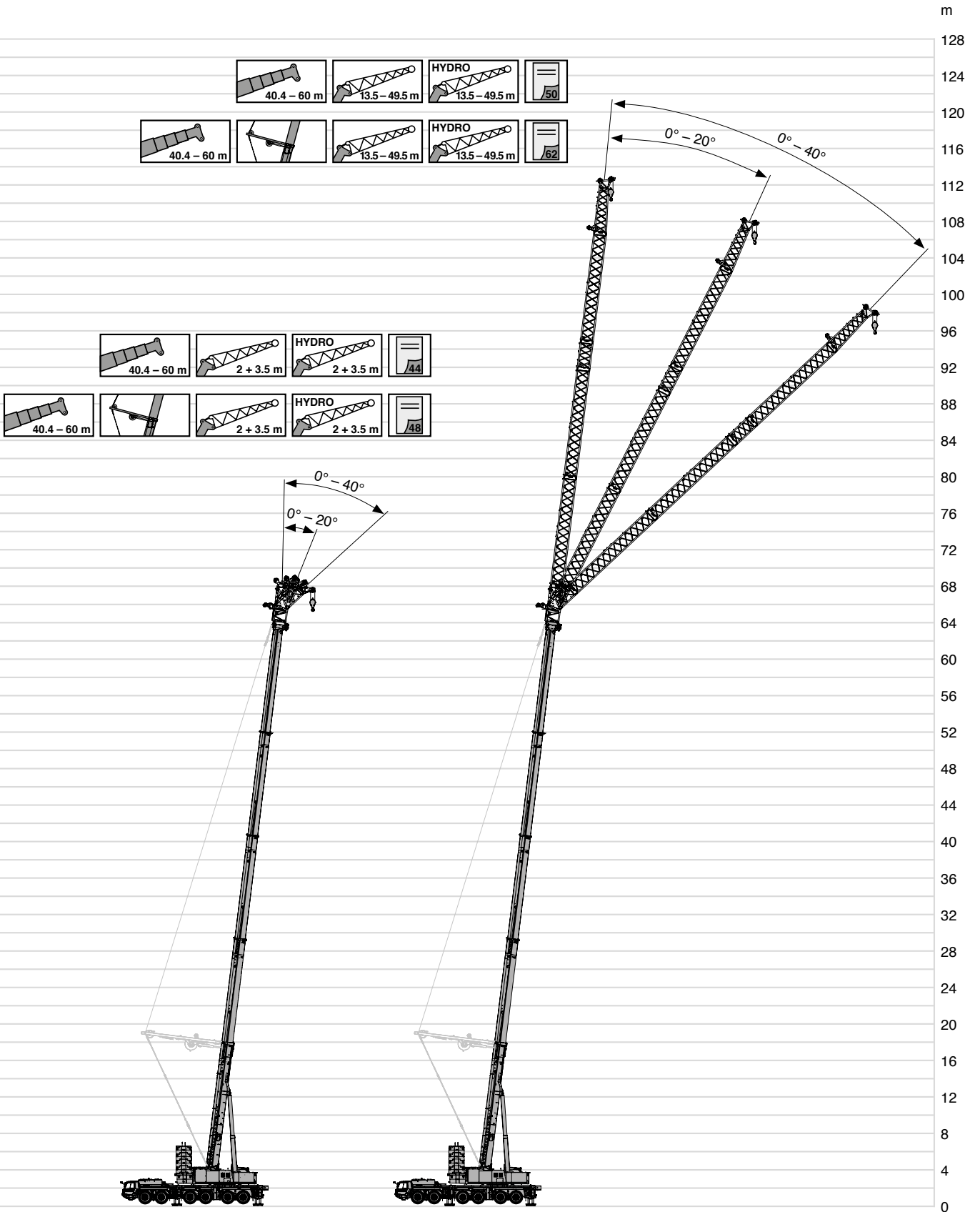


General · Allgemein · Généralités  
 Generalidades · Generalità · Общие положения

Boom systems · Auslegersysteme · Systèmes de flèche  
 Sistema de pluma · Sistemi di bracci · Конфигурации стрелы

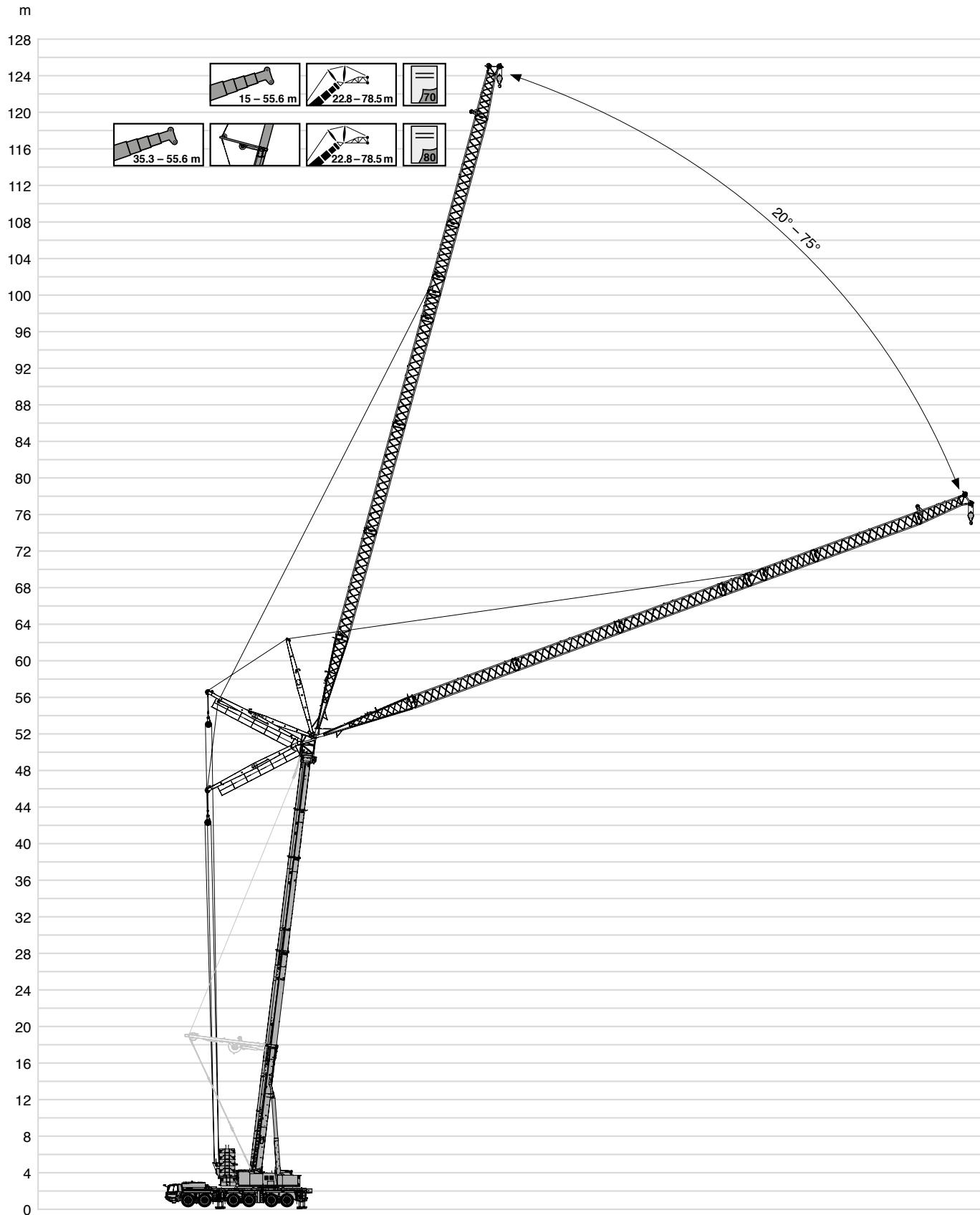


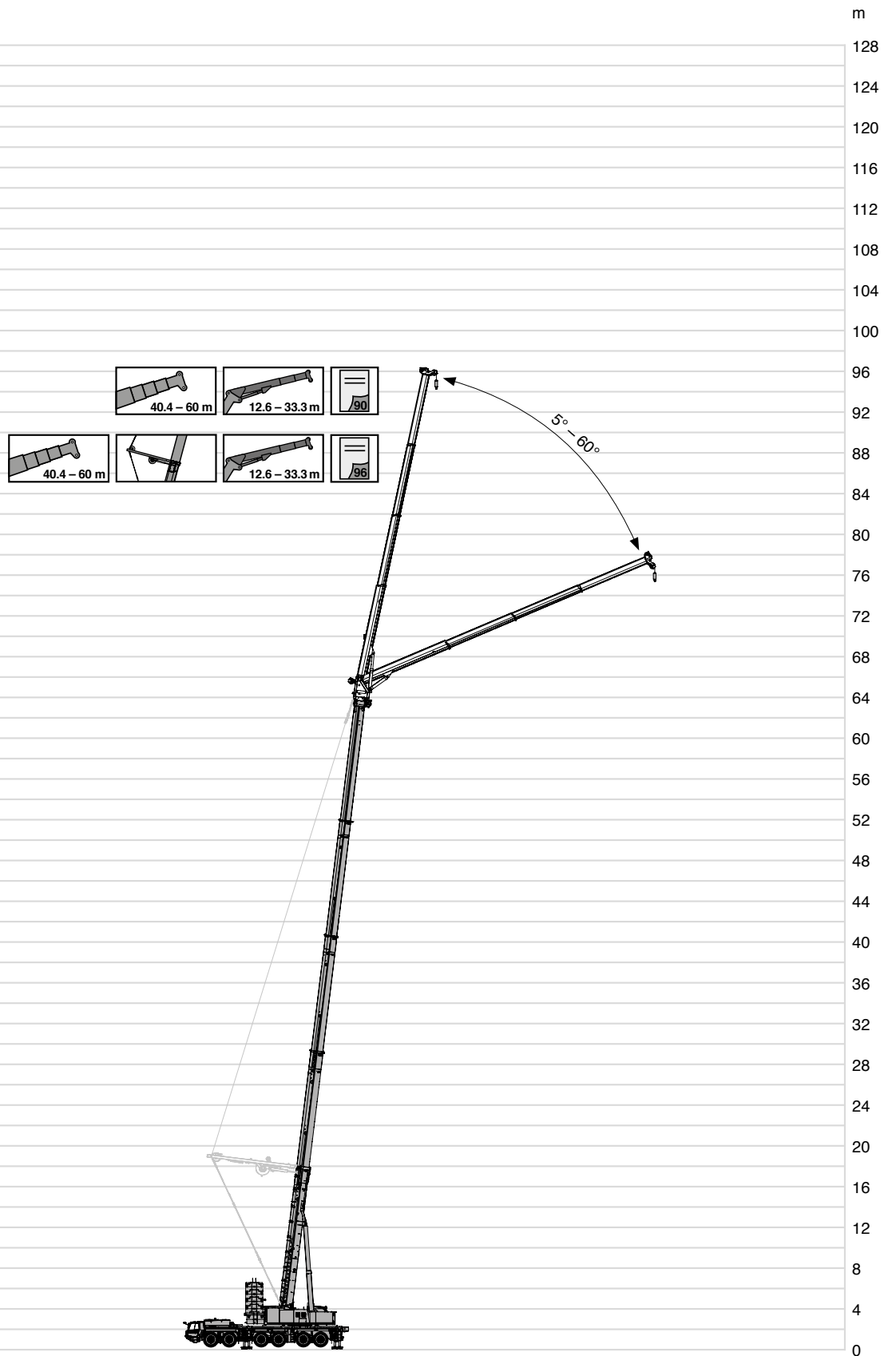




General · Allgemein · Généralités  
 Generalidades · Generalità · Общие положения

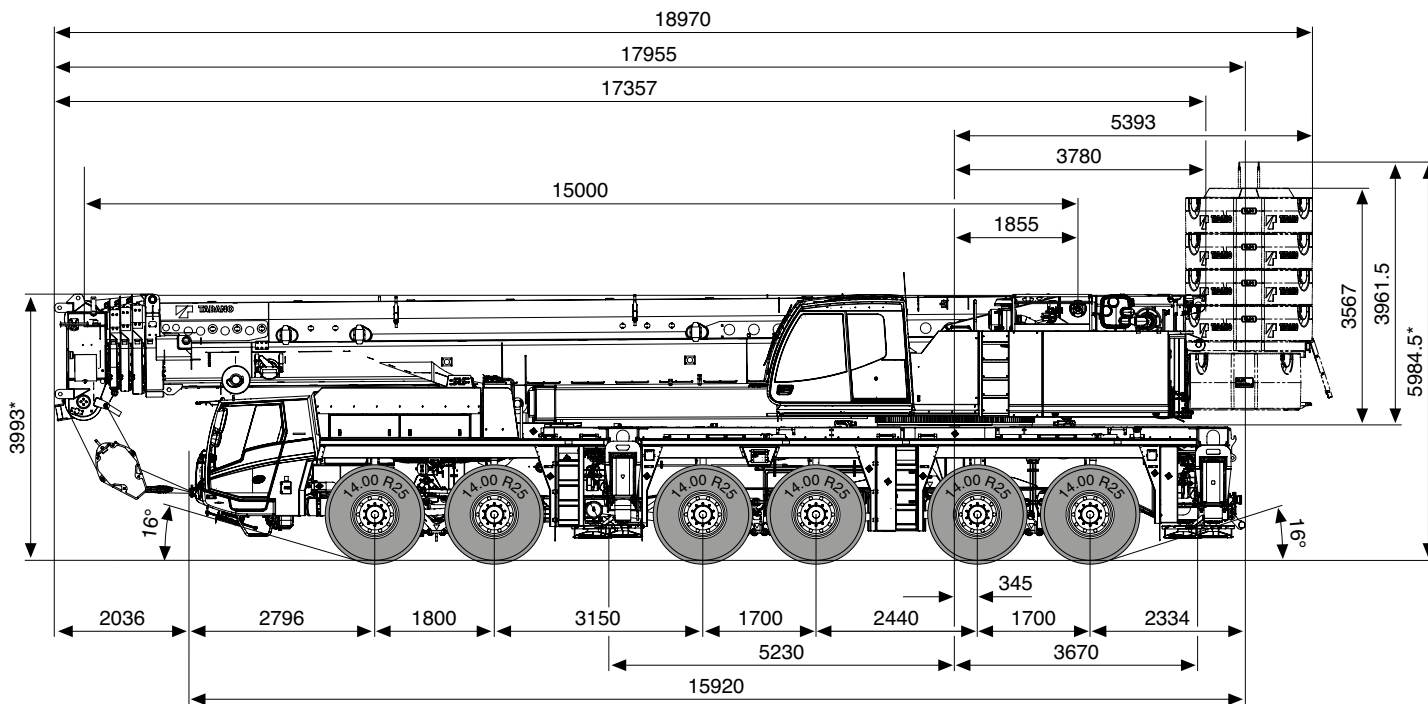
Boom systems · Auslegersysteme · Systèmes de flèche  
 Sistema de pluma · Sistemi di bracci · Конфигурации стрелы



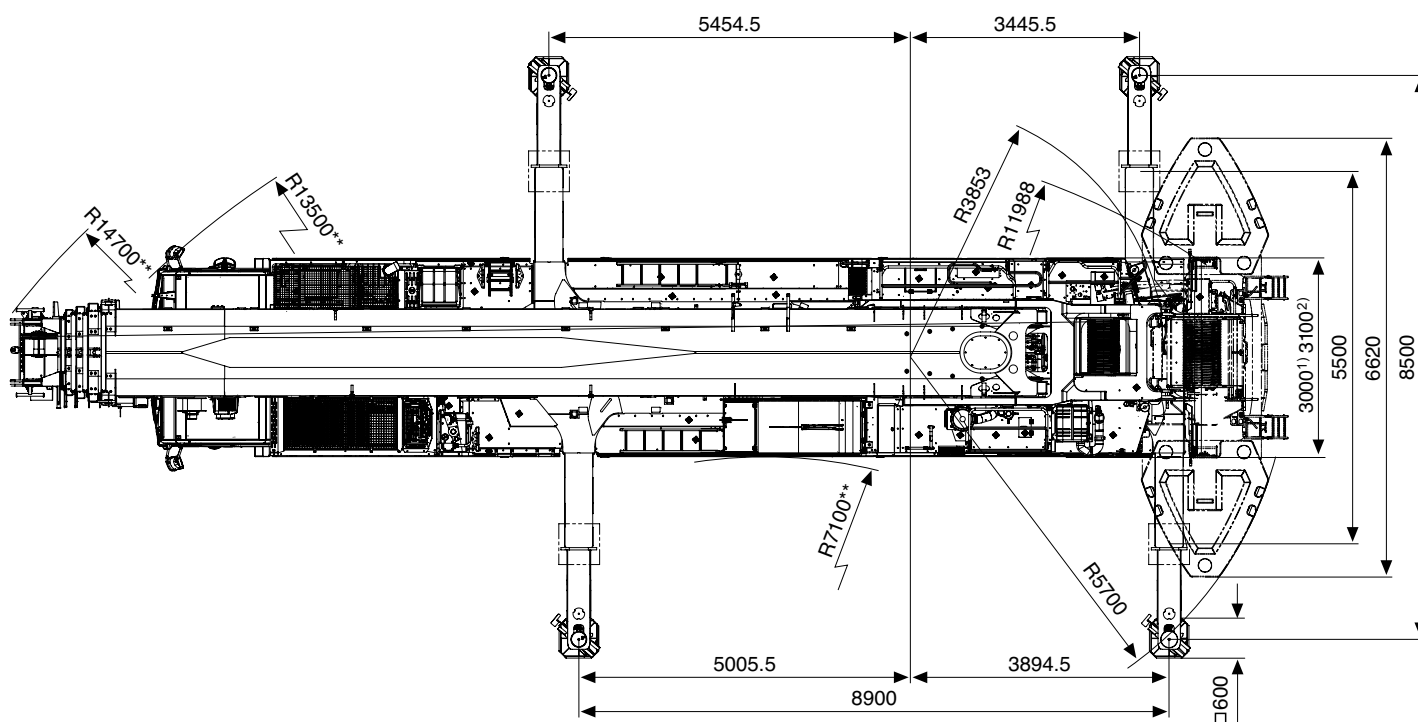


General · Allgemein · Généralités  
 Generalidades · Generalità · Общие положения

Vehicle dimensions · Fahrzeugabmessungen · Dimensions du véhicule  
 Dimensiones del vehículo · Dimensioni veicolo · Габариты машины



\* + 166  
 - 100



- 1) 385/95 R 25 (14.00 R25)  
 445/95 R 25 (16.00 R25)
- 2) 525/80 R 25 (20.5 R25)

\*\* Minimum · minimum · mínimo · minimo · мінімальны

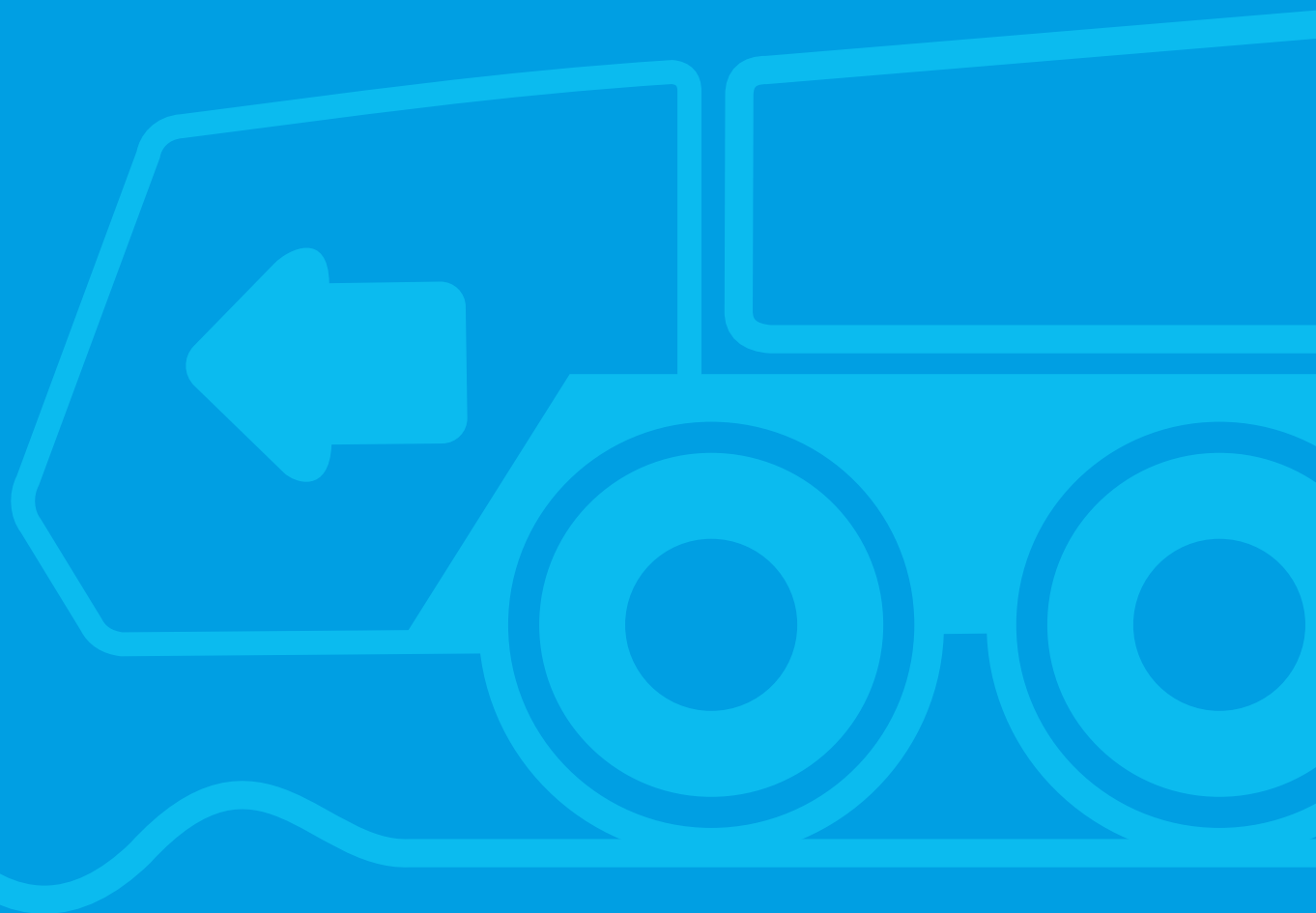
# TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

TECHNISCHE DATEN FÜR DIE STRASSEN- UND GELÄNDEFAHRT  
CARACTÉRISTIQUES TECHNIQUES POUR MARCHE ROUTE ET TOUT TERRAIN

DATOS TÉCNICOS PARA SU TRASLADO POR CARRETERA Y TODO TERRENO


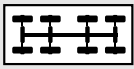

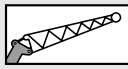

DATI TECNICI PER MARCIA SU STRADA E FUORI STRADA

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ ПРИ ДВИЖЕНИИ ПО ДОРОГАМ И БЕЗДОРОЖЬЮ








On-road and off-road driving · Straßen- und Geländefahrt · Marche route et tout terrain  
 Traslado por carretera y todoterreno · Marcia su strada e fuori strada  
 Движение по дорогам и бездорожью

Axle loads · Achslasten · Charges par essieu  
 Cargas por eje · Carichi assiali · Нагрузка на ось


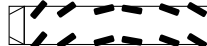
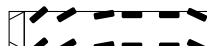


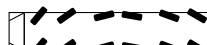

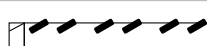
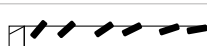
	TOTAL			TYPE		
< 12 t	< 72 t ***	12 x 8	445/95 R 25	12.5	-	0 t
< 16.5 t	< 81 t ***	12 x 8	445/95 R 25	100	-	7.5 t
max **	192 t ****	12 x 8	445/95 R 25	40	-	116 t

\* Axle loads vary depending on equipment mounted. Individual calculation available on demand. · Achslasten variieren je nach Ausrüstungsumfang. Individuelle Berechnung auf Anfrage.  
 Las cargas por ejes pueden variar según el equipamiento. Cálculo individual sobre pedido. · Les charges par essieux peuvent varier en fonction de l'équipement monté. Calcul individuel sur demande.  
 I carichi degli assi variano in base all'entità dell'equipaggiamento. Calcolo individuale su richiesta. · Нагрузка на ось зависит от установленного оборудования. Индивидуальный расчет по запросу.  
 \*\* Construction site · Baustelle · Chantier de construction · Obra · Cantiere · стройплощадка  
 \*\*\* Without second winch · Ohne zweite Winde · Sans deuxième treuil · Sin segundo cabrestante · Senza secondo argano · Без второй лебедки  
 \*\*\*\* Including second winch · Inklusive zweite Winde · Y compris deuxième treuil · Incl. segundo cabrestante · Incluso secondo argano · Без второй лебедки

Speeds and gradeability · Geschwindigkeiten und Steigfähigkeit · Vitesses de conduite et gravisement de pente  
 Velocidades y pendientes superables · Velocità e pendenza · Скорость и грузоподъемность

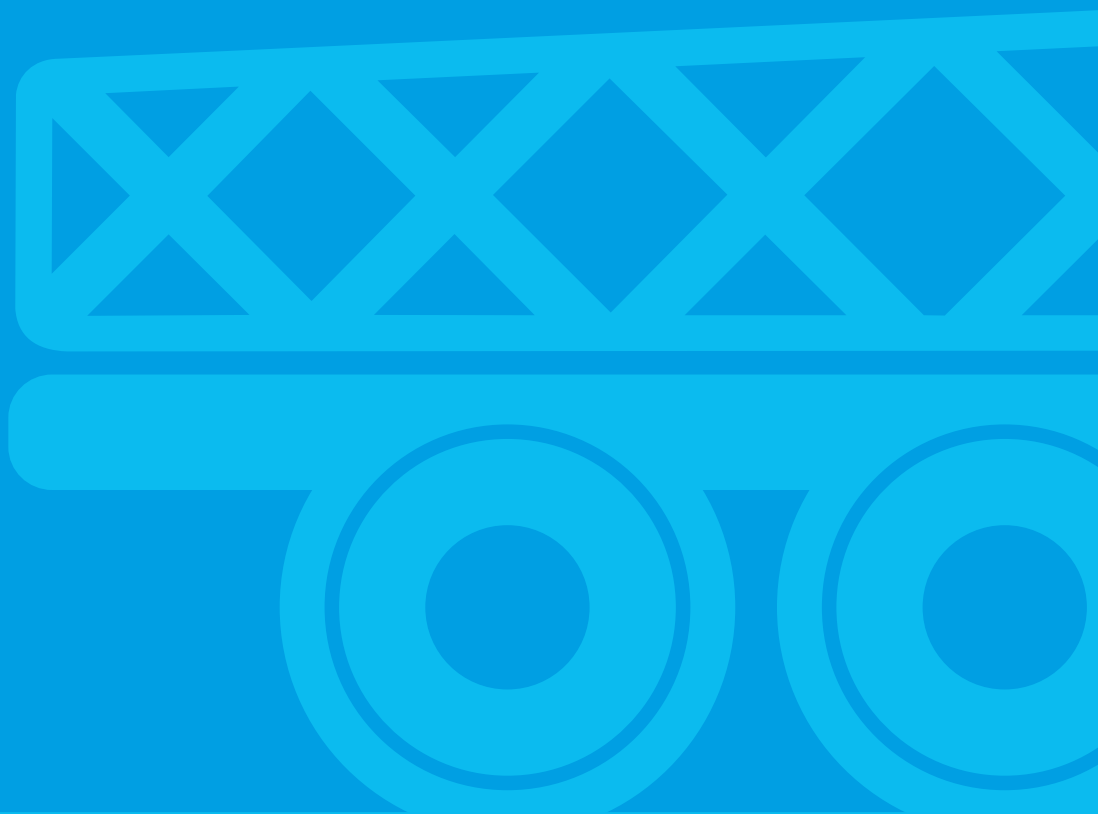
	 	 
385/95 R 25	85 km/h max.	60 %
445/95 R 25 525/80 R 25	85 km/h max.	53.5 %

Steering · Lenkung · Direction  
 Dirección · Sterzo · Рулевое управление

	 v < 25 km/h
	 25 km/h ≤ v ≤ 50 km/h
	 v > 50 km/h
	 Manual steering · Manuelle Lenkung · Direction manuelle Dirección manual · Sterzo manuale · Ручное управление
	 Smallest turning circle · Kleinster Wendekreis · Rayon de braquage mini. Mínimo radio · Raggio di sterzata minimo · Минимальный радиус поворота
	 Diagonal steering · Hundegang · Marche en crabe Marcha cangrejo · Sterzata carrello · Движение по диагонали
	 Rear veering suppression · Heck-Ausscher-Unterdrückung Suppression de déboitement AR · Supresión de movimiento transversal de parte posterior Soppressione oscillazione coda veicolo · Компенсация выноса задней части крана

# TECHNICAL DATA FOR TRANSPORT

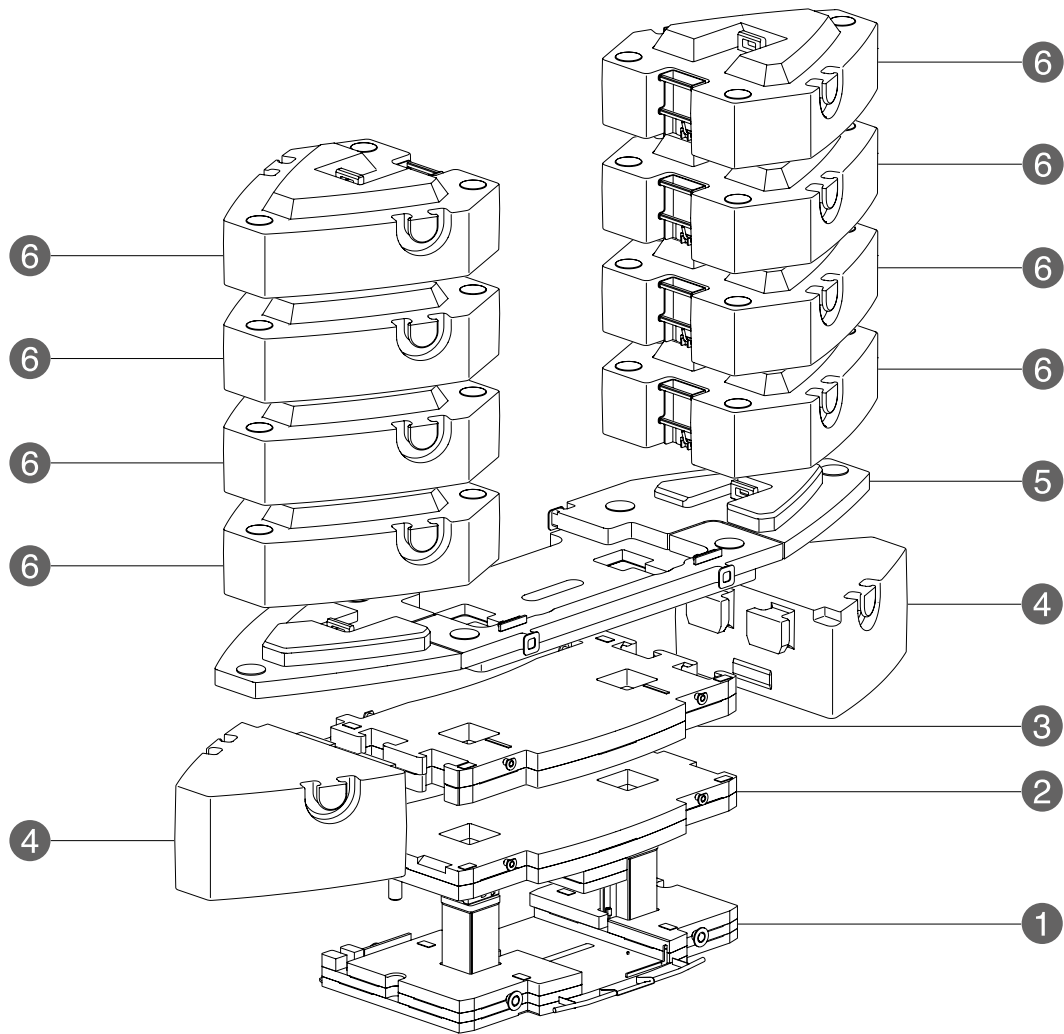
TECHNISCHE DATEN FÜR DEN TRANSPORT  
CARACTÉRISTIQUES TECHNIQUES POUR LE TRANSPORT  
DATOS TÉCNICOS PARA EL TRANSPORTE  
DATI TECNICI PER IL TRASPORTO  
ТЕХНИЧЕСКИЕ ДАННЫЕ ДЛЯ ТРАНСПОРТИРОВКИ



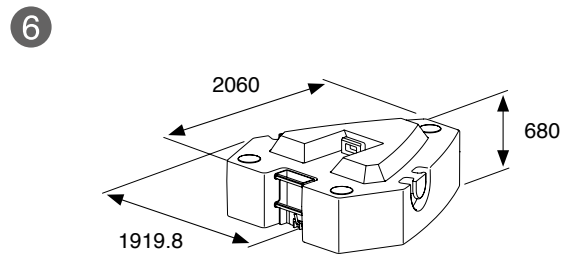
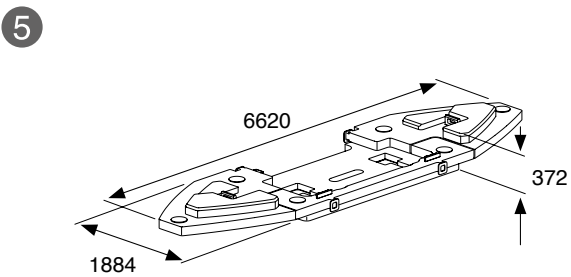
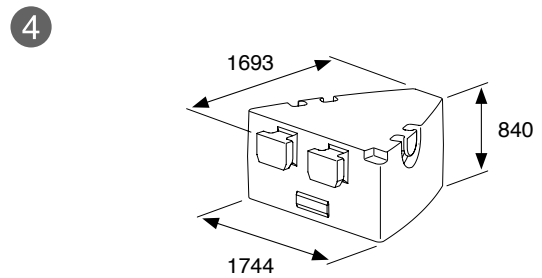
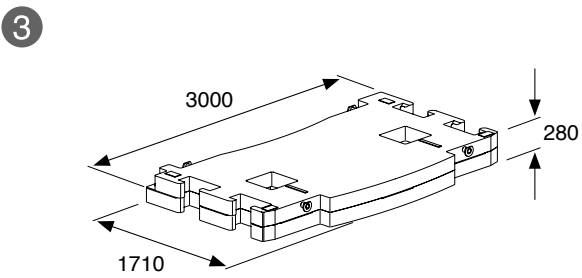
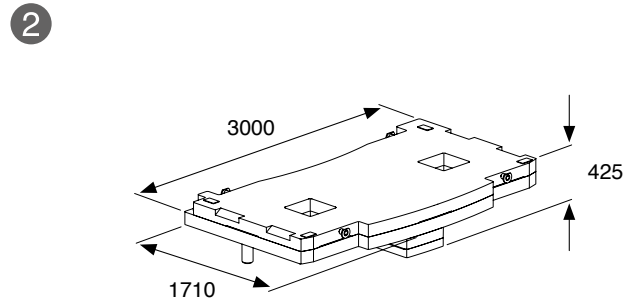
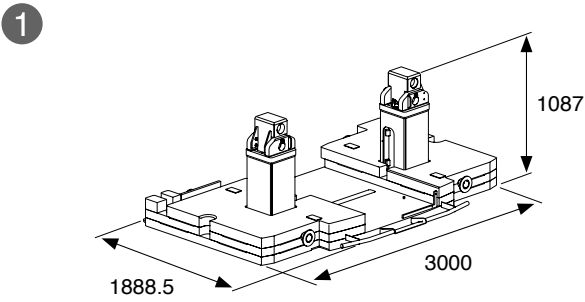


Transport · Transporte  
 Trasporto · Транспортировка

Counterweight · Gegengewicht · Contrepoids  
 Contrapeso · Contrappeso · Противовес



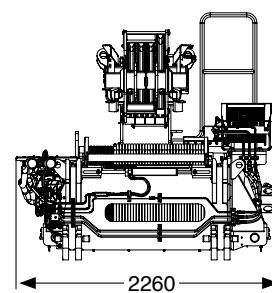
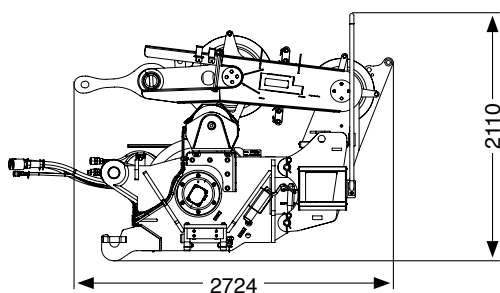
		7.5 t	16.5 t	25 t	36 t	45 t	56 t	76 t	96 t	116 t	136 t
①	7.5 t	1	1	1	1	1	1	1	1	1	1
②	9.0 t	-	1	1	1	1	1	1	1	1	1
③	8.5 t	-	-	1	1	1	1	1	1	1	1
④	10.0 t	-	-	-	-	2	2	2	2	2	2
⑤	11.0 t	-	-	-	1	-	1	1	1	1	1
⑥	10.0 t	-	-	-	-	-	-	2	4	6	8



Carrier counterweight · Gegengewichtsträger · Porte-contrepois  
 Depósito del contrapeso · Supporto contrappeso · Держатель противовеса



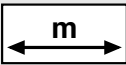
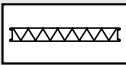
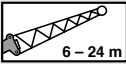
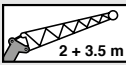
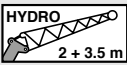
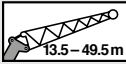


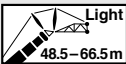
5869.7\*



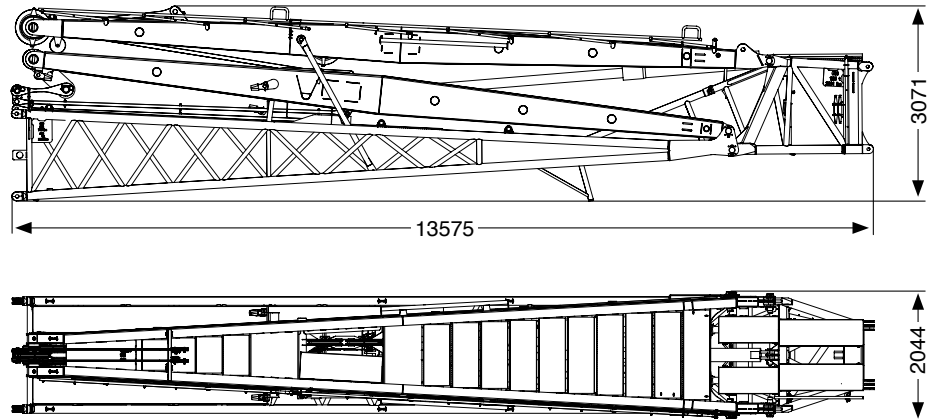
\* with 2<sup>nd</sup> winch, setup winch and pulley carrier · mit 2. Winde, Rüstwinde und Rollenträger · avec 2<sup>ème</sup> treuil, treuil de montage et porte-poulie  
 con 2° cabrestante, cabrestante de montaje y portapoleas · con 2° argano, argano di riserva e portarullo · со 2-й лебёдкой, монтажной лебёдкой и держателем роликов

Transport · Transporte  
 Trasporto · Транспортировка

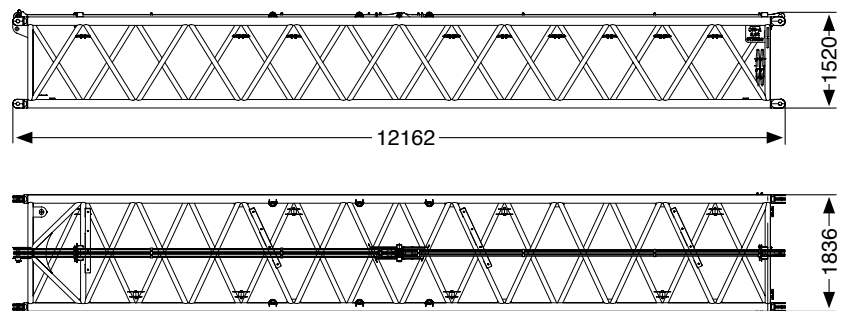
Jibs · Spitzen · Fléchettes  
 Plumines · Punte · гусек

		
	6 m	8
	12 m	6 + 8
	18 m	7 + 8
	24 m	6 + 7 + 8
 	2 m + 3.5 m	9 + 10
 	2 m + 11.5 m	9 + 4 + 8
	2 m + 17.5 m	9 + 4 + 6 + 8
	2 m + 23.5 m	9 + 3 + 4 + 8
	2 m + 29.5 m	9 + 3 + 4 + 6 + 8
	2 m + 35.5 m	9 + 3 + 4 + 7 + 8
	2 m + 41.5 m	9 + 3 + 3 + 4 + 6 + 8
	2 m + 47.5 m	9 + 3 + 3 + 4 + 7 + 8
	2.5 m + 20.3 m	1 + 4 + 8
	2.5 m + 32.3 m	1 + 2 + 4 + 8
	2.5 m + 34 m	1 + 2 + 4 + 5 + 8
	2.5 m + 40 m	1 + 2 + 4 + 5 + 6 + 8
	2.5 m + 46 m	1 + 2 + 3 + 4 + 5 + 8
	2.5 m + 52 m	1 + 2 + 3 + 4 + 5 + 6 + 8
	2.5 m + 58 m	1 + 2 + 3 + 3 + 4 + 5 + 8
	2.5 m + 64 m	1 + 2 + 3 + 3 + 4 + 5 + 6 + 8
	2.5 m + 70 m	1 + 2 + 3 + 3 + 4 + 5 + 7 + 8
	2.5 m + 76 m	1 + 2 + 3 + 3 + 4 + 5 + 6 + 7 + 8
	2.5 m + 46 m	1 + 2 + 4 + 5 + 7 + 8
	2.5 m + 52 m	1 + 2 + 4 + 5 + 6 + 7 + 8
	2.5 m + 58 m	1 + 2 + 3 + 4 + 5 + 7 + 8
	2.5 m + 64 m	1 + 2 + 3 + 4 + 5 + 6 + 7 + 8

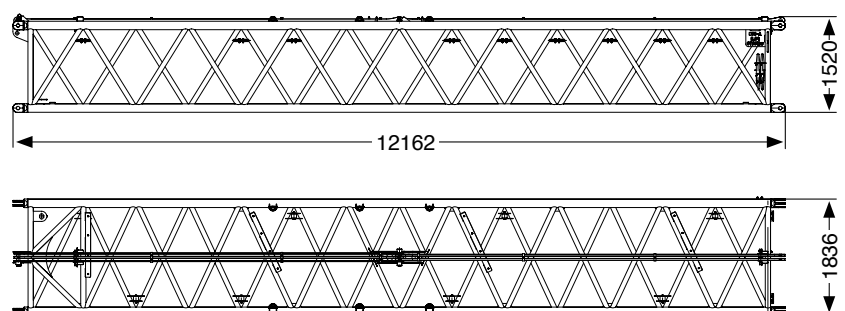
1   
9162



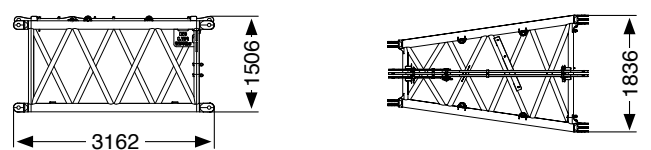
2   
2748



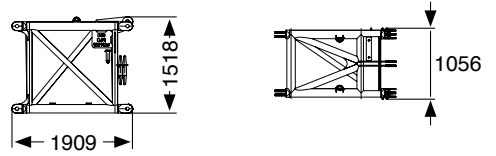
3   
2070



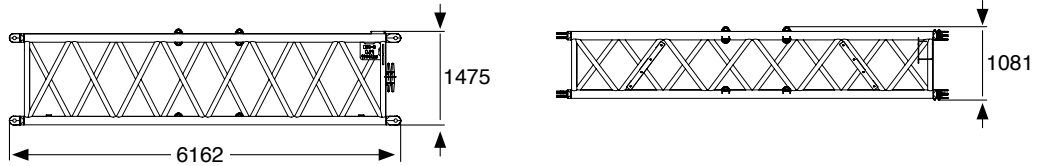
4   
716



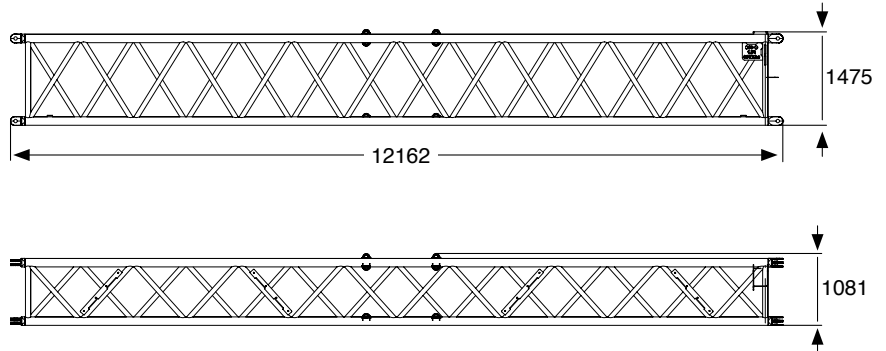
5   
600



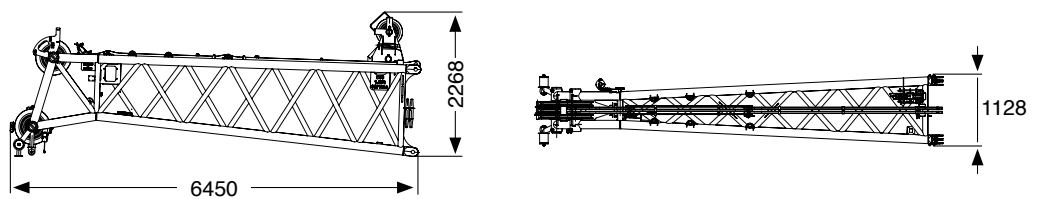
6   
900



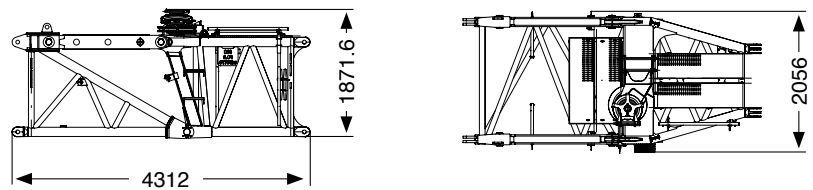
7   
1546



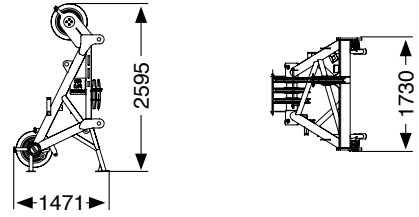
8   
1431




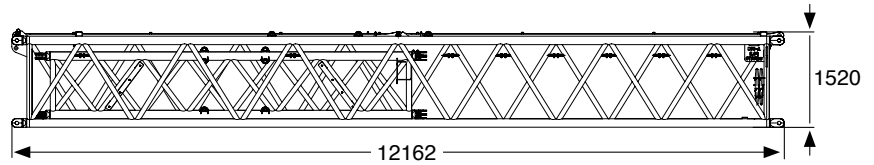
9   
2164




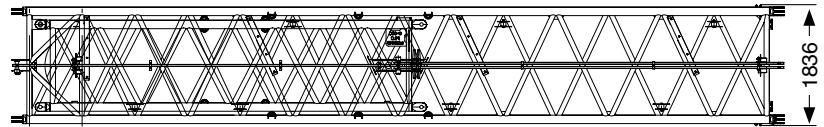
10   
579




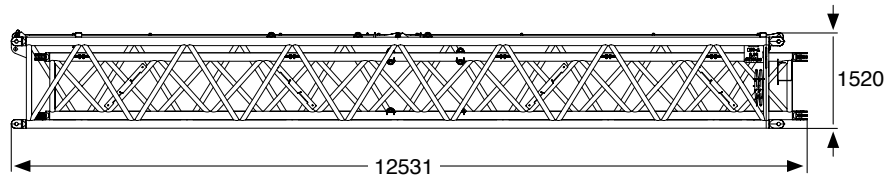
2 + 6   
3648




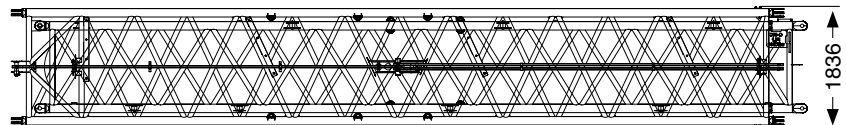
3 + 6   
2970



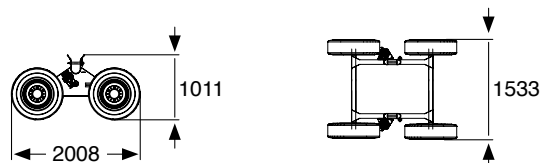
2 + 7   
4294



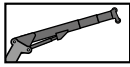
3 + 7   
3616



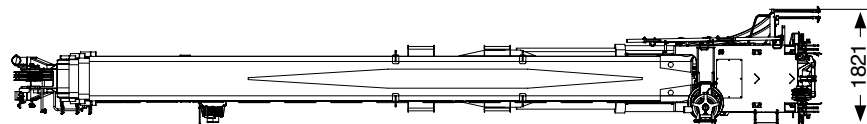
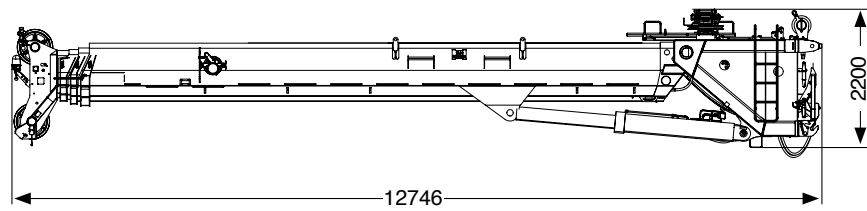
  
408



Transport · Transporte  
 Trasporto · Транспортировка



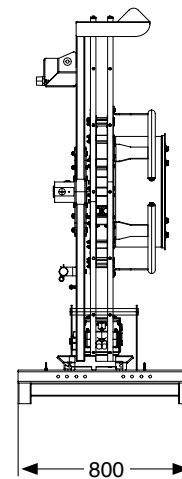
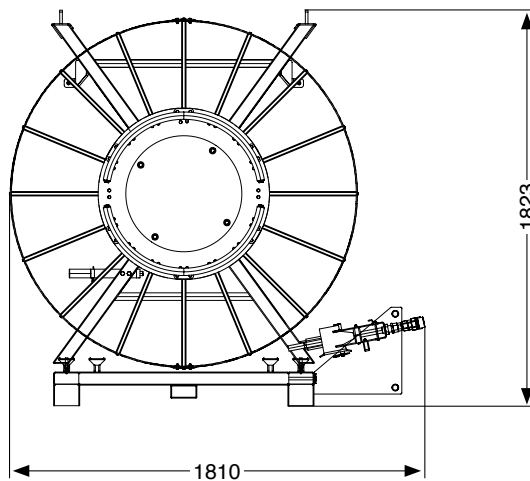
10300



Hose drum for hydraulic jib · Schlauchtrommel für hydraulische Spitze · Tambour de flexible pour fléchette hydraulique  
 Devanadera para plumín hidráulico · Aspo raccoglilitubo per punta idraulica · Барабан для намотки шланга для гидравлического гуська



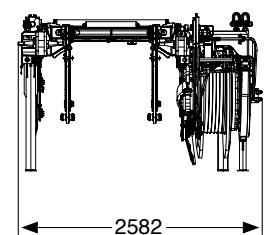
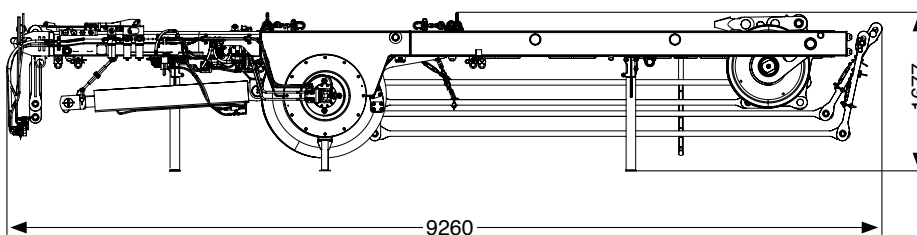
350



Power-System



6270





# TECHNICAL DATA FOR OPERATION

TECHNISCHE DATEN FÜR DEN EINSATZ

CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION

DATOS TÉCNICOS PARA EL USO

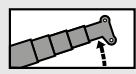
DATI TECNICI PER L'USO

ТЕХНИЧЕСКИЕ ЭКСПЛУАТАЦИОННЫЕ ХАРАКТЕРИСТИКИ



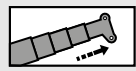
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

Main boom · Hauptausleger · Flèche principale  
 Pluma principal · Braccio principale · Главная стрела



-0.8° – 83.5°

~ 50 s



15 m – 60 m

~ 500 s

Swing mechanism · Drehwerk · Groupe de rotation  
 Mecanismo de giro · Gruppo di rotazione · Поворотный механизм



0 – 1.1 min<sup>-1</sup>



0° / 180°

Winches · Hubwinden · Treuils  
 Cabrestantes · Argani · Лебедка



0 – 125 m/min

23 mm / 350 m

120



0 – 135 m/min

23 mm / 580 m

120

Hook blocks · Unterflaschen · Moufles  
 Pastecas de carga · Bozzelli · Крюковые обоймы



250\*

221.6

9

19

2700

200\*

177.1

7

15

2300

160\*

131.4

5

11

1800

100\*

84.6

3

7

1550

40

36.7

1

3

950

12.5

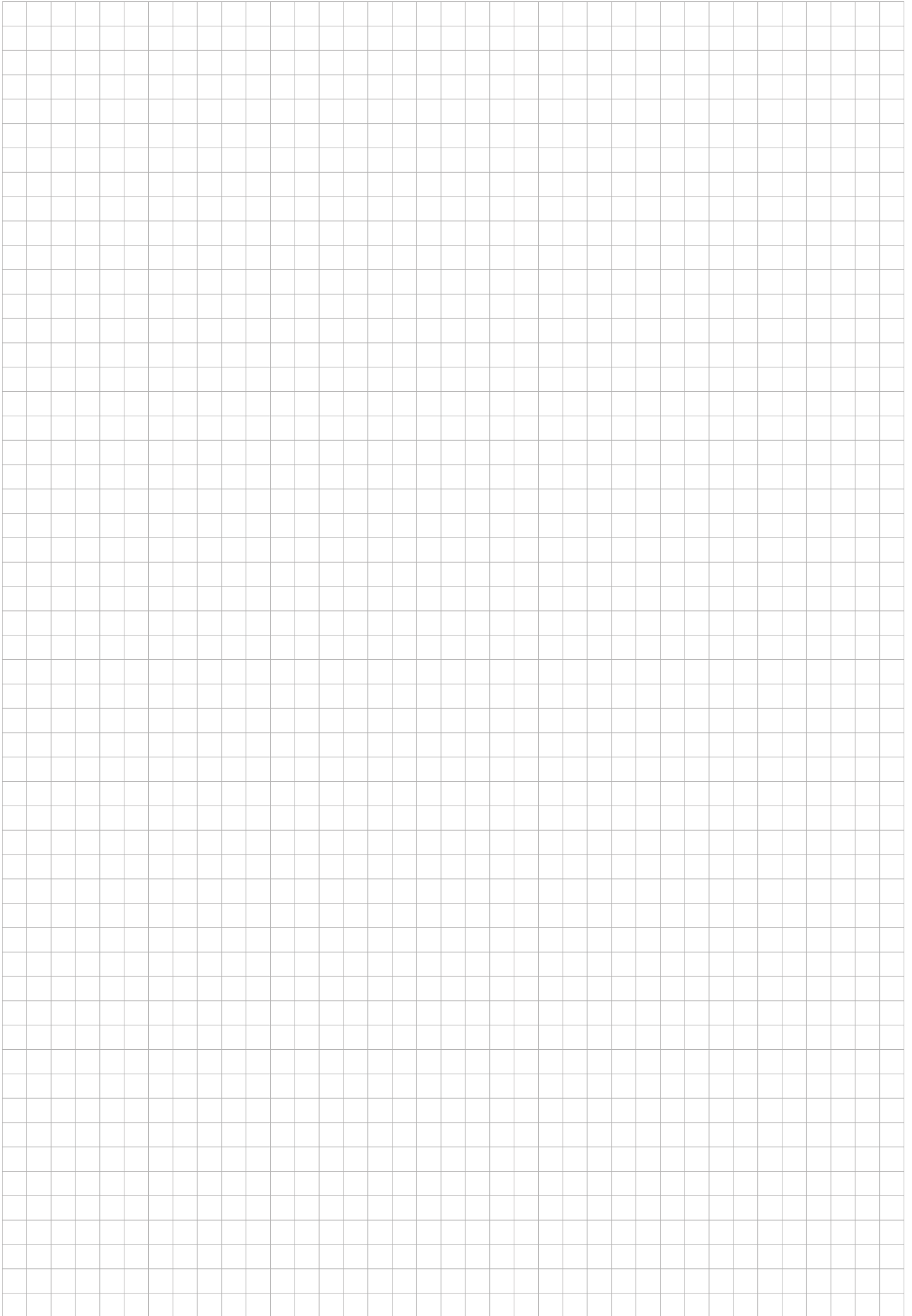
12.3

-

1

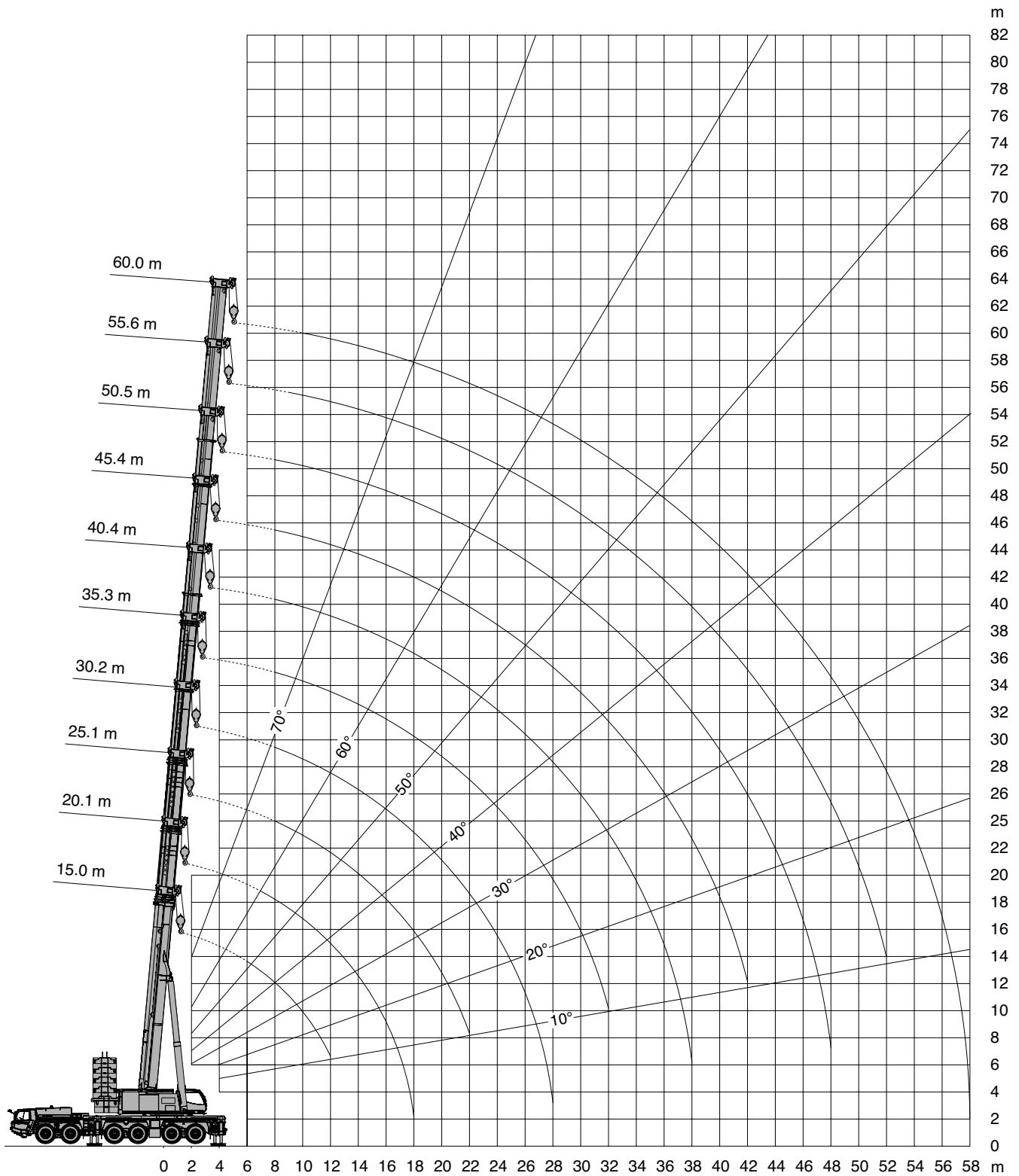
410

\* Twin hook · Doppelhaken · Moufle avec crochet marin · Gancho doble · Gancio doppio · Двойной крюк




Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона





 m	15.0 m*	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
2.7	400.0 **										
3.0	360.0 **	1) 200.0 **	170.0	162.0							
3.5	307.0 **	200.0 **	170.0	162.0							
4.0	264.6 **	200.0 **	170.0	162.0	139.0						
4.5	230.0 **	195.1 **	170.0	162.0	139.0						
5.0	200.6 **	182.9 **	170.0	162.0	139.0	123.4					
6.0		164.2	162.1	158.4	139.0	113.8	84.2				
7.0		147.4	146.0	141.2	127.9	103.1	84.2	71.6			
8.0		133.0	131.9	127.4	118.2	94.2	84.2	71.6	54.3		
9.0		120.4	120.0	116.0	109.8	86.7	79.5	69.5	54.3	45.0	
10.0		109.8	109.4	107.0	102.6	81.2	73.6	65.7	54.3	45.0	38.0
11.0		97.5	100.3	98.9	96.3	76.5	68.5	62.4	54.0	45.0	38.0
12.0		83.4	92.4	91.7	89.8	72.3	64.0	59.3	50.9	44.6	38.0
14.0			78.6	79.5	78.4	65.3	56.5	52.7	45.6	40.4	38.0
16.0			64.1	69.4	69.2	59.5	50.5	47.1	41.3	36.9	35.0
18.0			41.9	60.3	61.4	54.8	45.6	42.6	37.6	33.9	32.3
20.0				52.0	54.6	50.8	41.6	38.8	34.6	31.4	29.6
22.0				40.5	48.3	47.3	38.1	35.5	32.0	29.0	27.2
24.0					42.0	44.4	35.2	32.7	29.7	26.9	25.1
26.0					36.5	40.7	32.6	30.3	27.7	25.1	23.3
28.0					24.4	36.1	30.4	28.3	26.0	23.5	21.7
30.0						31.1	28.3	26.4	24.5	22.1	20.3
32.0						24.5	26.3	24.8	23.1	20.8	19.0
34.0							24.5	23.5	21.9	19.6	17.9
36.0							22.0	22.3	20.8	18.6	16.7
38.0							15.0	20.9	19.6	17.7	15.6
40.0								19.7	18.4	16.8	14.5
42.0								16.0	17.3	16.1	13.6
44.0									16.3	15.4	12.7
46.0									15.4	14.7	12.0
48.0									11.5	14.0	11.2
50.0										13.2	10.6
52.0										11.6	10.0
54.0											9.4
56.0											8.9
58.0											6.2


1) 360° Lifting capacities < 8 m working radius max. 116 t counterweight · 360° Traglasten < 8 m Arbeitsradius max. 116 t Gegengewicht  
360° forces de levage < 8 m portée max. 116 t contrepoids · 360° capacidades de elevación < 8 m radio de giro max. 116 t contrapeso  
Portate a 360° < 8 m raggio di lavoro max. 116 t contrappeso · 360° Грузоподъемность < 8 м Радиус действия макс. 116 т Противовес

\* Over rear · Nach hinten · A l'arrière · Hacia atrás · Indietro · Назад

\*\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием


Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	200.0*	170.0	162.0	139.0						
4.5	195.1*	170.0	162.0	139.0						
5.0	182.9*	170.0	162.0	139.0	123.4					
6.0	162.3	162.1	158.4	139.0	113.8	84.2				
7.0	144.2	143.9	141.2	127.9	103.1	84.2	71.6			
8.0	129.3	128.9	127.4	118.2	94.2	84.2	71.6	54.3		
9.0	116.9	116.5	115.8	109.8	86.7	79.5	69.5	54.3	45.0	
10.0	106.4	106.0	105.9	102.6	81.2	73.6	65.7	54.3	45.0	38.0
11.0	97.5	97.0	97.0	96.3	76.5	68.5	62.4	54.0	45.0	38.0
12.0	83.4	89.3	89.3	89.4	72.3	64.0	59.3	50.9	44.6	38.0
14.0		76.6	76.5	76.7	65.3	56.5	52.7	45.6	40.4	38.0
16.0		64.1	66.2	66.3	59.5	50.5	47.1	41.3	36.9	35.0
18.0		41.9	58.9	58.1	54.8	45.6	42.6	37.6	33.9	32.3
20.0			51.0	50.1	50.8	41.6	38.8	34.6	31.4	29.6
22.0			40.5	43.8	44.9	38.1	35.5	32.0	29.0	27.2
24.0				40.3	39.7	35.2	32.7	29.7	26.9	25.1
26.0				36.5	35.5	32.6	30.3	27.7	25.1	23.3
28.0				24.4	32.0	30.4	28.3	26.0	23.5	21.7
30.0					29.0	28.1	26.4	24.5	22.1	20.3
32.0					24.5	25.5	24.8	23.1	20.8	19.0
34.0						23.1	23.5	21.9	19.6	17.9
36.0						21.1	21.9	20.8	18.6	16.7
38.0						15.0	20.1	19.6	17.7	15.6
40.0							18.5	18.4	16.8	14.5
42.0							16.0	17.0	16.1	13.6
44.0								15.7	15.4	12.7
46.0								14.6	14.7	12.0
48.0								11.5	13.8	11.2
50.0									12.8	10.6
52.0									11.6	10.0
54.0										9.4
56.0										8.9
58.0										6.2

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
 Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием




 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	200.0*	170.0	162.0	139.0						
4.5	192.9*	170.0	162.0	139.0						
5.0	180.6*	170.0	162.0	139.0	123.4					
6.0	158.0	157.6	157.0	139.0	113.8	84.2				
7.0	139.9	139.6	138.9	127.9	103.1	84.2	71.6			
8.0	125.2	124.8	124.1	118.2	94.2	84.2	71.6	54.3		
9.0	112.9	112.5	112.5	109.8	86.7	79.5	69.5	54.3	45.0	
10.0	102.6	102.2	102.2	102.4	81.2	73.6	65.7	54.3	45.0	38.0
11.0	93.5	93.1	93.0	93.2	76.5	68.5	62.4	54.0	45.0	38.0
12.0	83.4	85.1	85.0	85.2	72.3	64.0	59.3	50.9	44.6	38.0
14.0		71.9	72.8	72.0	65.3	56.5	52.7	45.6	40.4	38.0
16.0		59.2	60.1	59.2	59.5	50.5	47.1	41.3	36.9	35.0
18.0		41.9	50.8	50.0	51.1	45.6	42.6	37.6	33.9	32.3
20.0			43.8	44.8	43.9	41.6	38.8	34.6	31.4	29.6
22.0			38.3	39.3	38.4	37.7	35.5	32.0	29.0	27.2
24.0				34.8	33.8	33.0	32.7	29.7	26.9	25.1
26.0				31.0	29.9	29.2	29.6	27.7	25.1	23.3
28.0				24.4	26.8	25.9	26.8	26.0	23.5	21.7
30.0					24.1	23.2	24.0	24.0	22.1	20.3
32.0					21.8	20.8	21.7	21.7	20.8	19.0
34.0						18.8	19.6	19.6	19.6	17.9
36.0						17.1	17.9	17.8	18.2	16.7
38.0						15.0	16.3	16.4	16.6	15.6
40.0							14.9	15.6	15.2	14.5
42.0							13.7	14.7	13.9	13.6
44.0								13.5	12.8	12.7
46.0								12.6	11.8	11.8
48.0								11.5	10.9	10.9
50.0									10.0	10.0
52.0									9.3	9.3
54.0										8.6
56.0										7.9
58.0										6.2

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием




Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	200.0*	170.0	162.0	139.0						
4.5	189.0*	170.0	162.0	139.0						
5.0	175.6*	170.0	162.0	139.0	123.4					
6.0	153.2	152.8	152.2	139.0	113.8	84.2				
7.0	135.3	134.9	134.3	127.9	103.1	84.2	71.6			
8.0	120.8	120.4	120.3	118.2	94.2	84.2	71.6	54.3		
9.0	107.9	107.5	107.5	107.7	86.7	79.5	69.5	54.3	45.0	
10.0	97.2	96.7	96.7	95.7	81.2	73.6	65.7	54.3	45.0	38.0
11.0	88.2	87.7	87.6	84.7	76.5	68.5	62.4	54.0	45.0	38.0
12.0	77.4	76.8	77.8	75.8	72.3	64.0	59.3	50.9	44.6	38.0
14.0		60.8	61.7	60.9	61.5	56.5	52.7	45.6	40.4	38.0
16.0		51.7	50.7	51.9	51.1	49.4	47.1	41.3	36.9	35.0
18.0		41.9	44.1	43.8	43.0	42.3	41.8	37.6	33.9	32.3
20.0			37.9	37.5	36.6	35.8	36.3	34.6	31.4	29.6
22.0			33.0	32.5	31.5	30.8	31.7	31.8	29.0	27.2
24.0				28.5	27.5	26.7	27.6	27.7	26.9	25.1
26.0				25.3	24.2	23.4	24.3	24.3	24.7	23.3
28.0				22.7	21.5	20.6	21.5	22.0	21.9	21.7
30.0					19.2	18.3	19.2	20.3	19.6	19.7
32.0					17.3	17.3	17.6	18.2	17.5	17.6
34.0						16.4	16.6	16.5	15.7	15.9
36.0						15.6	15.4	14.9	14.2	14.3
38.0						14.7	14.0	13.5	12.8	12.9
40.0							12.8	12.3	11.6	11.7
42.0							11.8	11.2	10.5	10.6
44.0								10.3	9.5	9.6
46.0								9.4	8.6	8.7
48.0								8.7	7.8	7.9
50.0									7.1	7.2
52.0									6.5	6.5
54.0										5.9
56.0										5.4
58.0										4.9

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
 Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием




 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	198.5*	170.0	162.0	139.0						
4.5	183.3*	170.0	162.0	139.0						
5.0	170.0	169.6	162.0	139.0	123.4					
6.0	147.8	147.4	146.8	139.0	113.8	84.2				
7.0	129.3	128.9	128.9	123.7	103.1	84.2	71.6			
8.0	113.9	113.4	110.3	103.7	94.2	84.2	71.6	54.3		
9.0	101.2	100.0	95.3	88.8	85.9	79.5	69.5	54.3	45.0	
10.0	85.0	84.4	82.8	77.4	75.3	70.8	65.7	54.3	45.0	38.0
11.0	72.9	72.4	72.9	71.1	66.9	63.0	61.0	54.0	45.0	38.0
12.0	63.6	65.1	64.1	63.7	59.9	56.5	55.0	50.9	44.6	38.0
14.0		51.5	52.1	51.9	49.3	46.5	46.0	44.5	40.4	38.0
16.0		41.8	42.4	42.1	41.1	38.9	38.8	37.6	36.9	35.0
18.0		35.0	35.3	35.0	34.0	33.0	33.1	32.5	31.7	31.0
20.0			29.9	29.5	28.5	27.7	28.6	29.2	27.5	27.0
22.0			26.0	25.2	24.2	24.1	25.4	25.6	24.1	23.7
24.0				23.0	20.8	22.3	22.6	22.1	21.3	20.9
26.0				20.4	18.4	20.2	19.7	19.3	18.6	18.6
28.0				18.3	17.2	17.9	17.4	16.9	16.2	16.4
30.0					15.9	15.9	15.4	15.0	14.2	14.4
32.0					14.4	14.2	13.7	13.3	12.5	12.7
34.0						12.8	12.3	11.8	11.1	11.2
36.0						11.6	11.0	10.5	9.8	9.9
38.0						10.6	9.9	9.4	8.7	8.8
40.0							8.9	8.4	7.7	7.8
42.0							8.1	7.5	6.8	6.9
44.0								6.8	6.0	6.1
46.0								6.1	5.3	5.4
48.0								5.5	4.7	4.7
50.0									4.1	4.1
52.0									3.6	3.6
54.0										3.1
56.0										2.7
58.0										2.3

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием


Operation · Einsatz · Utilisation  
 Uso · Эксплуатация




 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	195.3*	170.0	162.0	139.0						
4.5	180.1*	170.0	162.0	139.0						
5.0	166.8	166.4	162.0	139.0	123.4					
6.0	144.2	143.8	143.0	137.2	113.8	84.2				
7.0	125.0	124.6	119.6	111.3	103.1	84.2	71.6			
8.0	109.8	106.5	100.6	93.1	89.4	83.3	71.6	54.3		
9.0	89.9	89.3	85.6	81.5	77.1	72.1	69.3	54.3	45.0	
10.0	75.3	74.8	74.2	72.1	67.5	63.3	61.1	54.3	45.0	38.0
11.0	64.5	66.0	65.0	63.8	59.8	56.2	54.5	52.9	45.0	38.0
12.0	56.2	57.6	58.2	57.0	53.5	50.2	49.4	47.5	44.6	38.0
14.0		45.4	46.0	45.8	43.4	40.7	40.4	39.0	38.2	37.2
16.0		37.0	37.6	37.3	36.1	33.8	33.8	34.1	32.1	31.4
18.0		30.6	31.1	30.6	29.5	28.7	30.6	29.2	27.4	26.8
20.0			26.2	26.9	24.6	26.2	26.5	25.3	23.7	23.2
22.0			22.5	23.0	21.5	23.1	22.6	22.1	20.6	20.2
24.0				20.0	19.8	19.9	19.4	19.0	18.1	17.8
26.0				17.5	17.3	17.4	16.9	16.4	15.7	15.7
28.0				15.7	15.2	15.3	14.8	14.3	13.6	13.8
30.0					13.5	13.5	13.0	12.5	11.8	12.0
32.0					12.1	12.0	11.5	11.0	10.3	10.4
34.0						10.7	10.2	9.7	9.0	9.1
36.0						9.6	9.0	8.6	7.8	8.0
38.0						8.7	8.1	7.6	6.8	6.9
40.0							7.2	6.7	5.9	6.0
42.0							6.5	5.9	5.2	5.2
44.0								5.2	4.5	4.5
46.0								4.6	3.8	3.9
48.0								4.1	3.3	3.3
50.0									2.7	2.8
52.0									2.3	2.3
54.0										1.9
56.0										1.5

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
 Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием



 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	192.1*	170.0	162.0	139.0						
4.5	177.0*	170.0	162.0	139.0						
5.0	163.7	163.4	162.0	139.0	123.4					
6.0	139.8	139.3	131.2	120.1	109.8	84.2				
7.0	120.9	113.6	106.2	97.2	92.5	84.2	71.6			
8.0	97.9	92.8	87.9	84.2	78.0	72.4	69.2	54.3		
9.0	79.4	78.2	74.6	72.1	67.1	62.5	60.6	54.3	45.0	
10.0	66.4	68.0	66.5	62.8	58.3	54.3	52.9	50.5	45.0	38.0
11.0	56.7	58.2	58.3	55.0	51.1	47.6	46.8	45.9	43.5	38.0
12.0	49.2	50.7	51.3	48.7	45.3	42.2	41.7	41.5	39.0	37.8
14.0		39.2	39.9	39.2	36.4	35.2	35.9	34.1	31.9	31.1
16.0		31.0	31.8	32.5	30.0	31.6	30.0	28.5	26.7	26.0
18.0		25.5	26.0	26.8	25.8	26.9	25.5	24.2	22.6	22.1
20.0			21.7	22.4	22.3	22.6	22.0	20.8	19.3	18.9
22.0			18.5	19.1	18.9	19.1	18.6	18.0	16.7	16.3
24.0				16.4	16.2	16.4	15.9	15.4	14.4	14.2
26.0				14.3	14.1	14.2	13.7	13.2	12.5	12.3
28.0				12.7	12.3	12.3	11.8	11.4	10.7	10.8
30.0					10.8	10.8	10.3	9.8	9.1	9.2
32.0					9.6	9.5	9.0	8.5	7.8	7.9
34.0						8.4	7.8	7.3	6.6	6.7
36.0						7.4	6.8	6.4	5.6	5.7
38.0						6.7	6.0	5.5	4.8	4.9
40.0							5.2	4.7	4.0	4.1
42.0							4.6	4.0	3.3	3.4
44.0								3.4	2.7	2.8
46.0								2.9	2.1	2.2
48.0								2.5	1.6	1.7




 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	188.2*	170.0	162.0	139.0						
4.5	173.1*	170.0	162.0	139.0						
5.0	158.5	158.1	144.9	131.4	117.8					
6.0	134.4	122.1	112.2	103.7	95.1	84.2				
7.0	105.9	95.4	89.4	84.9	77.7	71.4	68.0			
8.0	83.8	80.6	76.0	70.6	64.6	59.3	57.2	54.0		
9.0	67.8	67.3	63.7	59.4	54.6	50.3	50.6	48.1	44.7	
10.0	56.4	57.0	54.4	51.0	47.0	45.4	44.8	42.1	39.2	37.8
11.0	47.3	49.1	47.2	44.4	40.9	42.1	39.5	37.3	34.7	33.5
12.0	39.8	41.6	41.8	40.8	36.5	37.4	35.2	33.2	30.9	30.0
14.0		31.2	32.2	32.8	31.4	30.3	28.6	27.0	25.0	24.3
16.0		24.4	25.2	26.1	25.9	25.1	23.7	22.3	20.6	20.1
18.0		19.8	20.4	21.2	21.1	21.2	19.9	18.7	17.2	16.8
20.0			16.8	17.5	17.4	17.6	16.9	15.9	14.5	14.2
22.0			14.1	14.7	14.5	14.7	14.2	13.5	12.2	12.0
24.0				12.5	12.3	12.4	11.9	11.5	10.4	10.2
26.0				10.7	10.5	10.6	10.1	9.6	8.8	8.6
28.0				9.4	9.0	9.1	8.5	8.1	7.4	7.3
30.0					7.8	7.8	7.2	6.8	6.1	6.2
32.0					6.8	6.7	6.1	5.7	5.0	5.1
34.0						5.8	5.2	4.7	4.0	4.1
36.0						5.0	4.4	3.9	3.2	3.3
38.0						4.4	3.7	3.2	2.4	2.5
40.0							3.0	2.5	1.8	1.8
42.0							2.5	1.9		


\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация




 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	200.0*	170.0	162.0							
4.0	185.2*	170.0	162.0	139.0						
4.5	168.8	168.4	148.7	132.5						
5.0	154.1	143.9	128.5	114.2	104.3					
6.0	118.9	105.0	97.5	90.5	81.7	73.4				
7.0	90.9	84.9	78.8	72.0	64.9	58.9	57.4			
8.0	71.8	67.8	63.5	58.7	53.3	52.9	49.6	46.1		
9.0	58.2	55.7	53.2	51.1	45.7	45.6	42.5	39.6	36.6	
10.0	47.0	46.9	45.2	43.8	41.4	39.5	36.9	34.5	31.9	30.7
11.0	38.5	40.2	39.1	38.1	36.2	34.6	32.4	30.4	28.0	27.1
12.0	32.2	34.0	34.2	33.6	31.9	30.7	28.7	26.9	24.8	24.0
14.0		25.1	26.1	26.7	25.5	24.6	23.0	21.6	19.8	19.2
16.0		19.4	20.2	21.1	20.9	20.2	18.8	17.6	16.0	15.6
18.0		15.5	16.1	16.9	16.8	16.8	15.6	14.5	13.0	12.7
20.0			13.0	13.7	13.6	13.9	13.0	12.0	10.6	10.3
22.0			10.8	11.4	11.2	11.4	10.9	9.9	8.6	8.4
24.0				9.4	9.2	9.4	8.9	8.2	7.0	6.8
26.0				7.9	7.6	7.7	7.2	6.7	5.6	5.5
28.0				6.8	6.3	6.4	5.9	5.4	4.5	4.4
30.0					5.3	5.3	4.7	4.3	3.5	3.4
32.0					4.4	4.3	3.8	3.3	2.6	2.5
34.0						3.5	3.0	2.5		
36.0						2.9	2.3	1.8		
38.0						2.4	1.7			



 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	199.3*	170.0	162.0							
4.0	180.9*	170.0	162.0	139.0						
4.5	163.8	146.8	128.4	115.3						
5.0	141.1	120.3	108.6	98.5	86.6					
6.0	99.1	90.8	82.0	73.4	65.0	63.3				
7.0	73.1	68.0	63.3	59.5	54.8	51.2	46.9			
8.0	56.4	53.6	50.8	48.4	45.1	42.5	39.2	36.2		
9.0	45.2	43.7	42.0	40.5	38.0	36.0	33.3	30.9	28.1	
10.0	36.4	36.5	35.4	34.5	32.5	31.0	28.7	26.6	24.3	23.3
11.0	29.4	31.1	30.4	29.8	28.2	27.0	25.0	23.2	20.9	20.0
12.0	24.3	26.1	26.4	26.1	24.7	23.7	21.8	20.1	18.0	17.4
14.0		18.9	19.9	20.1	19.0	18.3	16.8	15.4	13.7	13.2
16.0		13.9	14.8	15.7	15.0	14.4	13.2	12.0	10.5	10.2
18.0		10.5	11.2	12.0	11.9	11.6	10.5	9.4	8.1	7.8
20.0			8.6	9.4	9.2	9.3	8.3	7.4	6.1	5.9
22.0			6.7	7.3	7.2	7.4	6.6	5.8	4.6	4.4
24.0				5.8	5.6	5.8	5.3	4.4	3.3	
26.0				4.6	4.4	4.5	3.9	3.3		
28.0				3.8	3.3	3.4	2.9			
30.0					2.5	2.5	2.0			
32.0					1.9	1.8				

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
 Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием

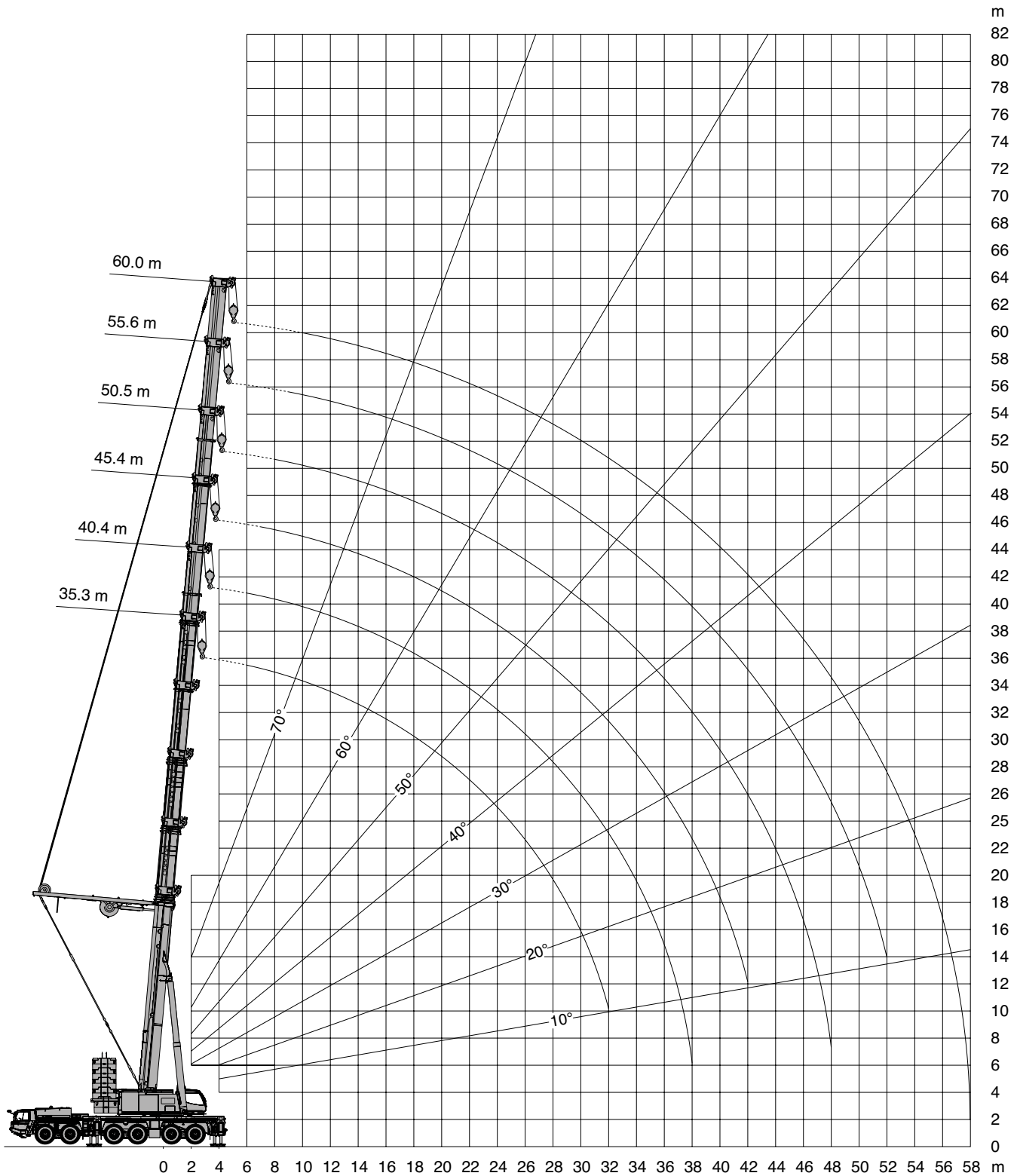
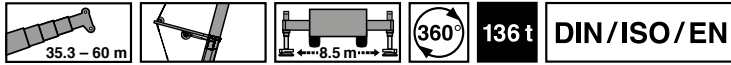


 m	15.0 m	20.1 m	25.1 m	30.2 m	35.3 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
3.0	200.0*	170.0	162.0							
3.5	195.4*	170.0	162.0							
4.0	175.4*	170.0	162.0	139.0						
4.5	150.6	124.7	112.7	98.4						
5.0	119.8	106.1	93.8	81.2	69.8					
6.0	80.8	73.4	66.9	61.7	55.9	51.4				
7.0	58.0	54.4	51.0	48.0	44.2	41.1	37.4			
8.0	44.2	42.5	40.5	38.8	36.1	33.9	31.0	28.0		
9.0	35.0	34.4	33.2	32.2	30.0	28.1	25.5	23.1	20.4	
10.0	28.0	28.0	27.3	26.7	24.8	23.5	21.3	19.3	17.0	16.2
11.0	22.1	22.9	22.6	22.4	20.9	19.9	18.0	16.3	14.2	13.6
12.0	17.3	19.0	19.0	19.0	17.8	17.0	15.4	13.8	12.0	11.5
14.0		12.9	13.9	14.1	13.3	12.7	11.4	10.1	8.6	8.2
16.0		8.9	9.8	10.7	10.1	9.6	8.5	7.5	6.1	5.8
18.0		6.3	7.0	7.9	7.7	7.4	6.4	5.4		
20.0			5.0	5.8	5.7	5.6	4.7	3.8		
22.0			3.6	4.2	4.0	4.2	3.4			
24.0				3.0	2.8	2.9				
26.0				2.0	1.8	1.9				

\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire  
 Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием

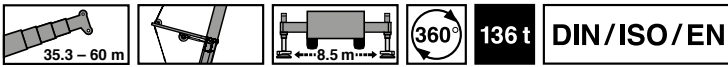
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация


Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона



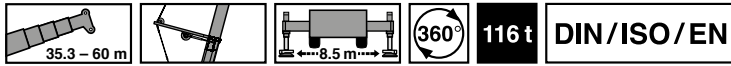



Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность

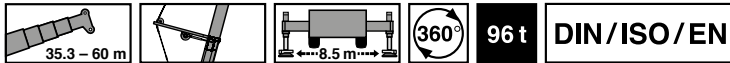



 m	35.3 m	40.4 m	45.4m	50.5 m	55.6 m	60.0 m
6.0	118.0	84.2				
7.0	118.0	84.2	68.0			
8.0	116.3	84.2	68.0	58.0		
9.0	105.5	84.2	68.0	58.0	45.0	
10.0	96.4	84.2	68.0	58.0	45.0	36.0
11.0	88.7	84.2	68.0	58.0	45.0	36.0
12.0	82.1	81.6	68.0	58.0	44.8	36.0
14.0	71.2	70.9	68.0	58.0	44.4	35.1
16.0	62.6	62.5	62.2	52.3	44.0	34.0
18.0	55.5	55.6	55.4	50.4	43.7	33.4
20.0	49.5	49.9	49.8	48.4	41.3	33.0
22.0	44.2	45.0	45.1	45.2	37.7	32.7
24.0	39.4	40.7	41.0	41.2	34.9	32.4
26.0	34.9	36.8	37.4	37.8	33.6	31.3
28.0	30.5	33.2	34.1	34.7	32.5	29.1
30.0	25.6	29.8	31.1	31.9	31.3	27.4
32.0	19.2	26.4	28.3	29.4	29.9	26.6
34.0		22.7	25.6	27.1	27.8	25.8
36.0		18.4	22.9	24.8	25.6	25.1
38.0		11.3	20.1	22.7	23.6	23.6
40.0			16.9	20.5	21.7	21.8
42.0			12.6	18.3	20.1	20.2
44.0				15.9	18.5	18.7
46.0				12.9	16.6	17.3
48.0				8.3	14.7	16.0
50.0					12.4	14.5
52.0					9.5	12.8
54.0						10.8
56.0						8.4
58.0						3.7

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



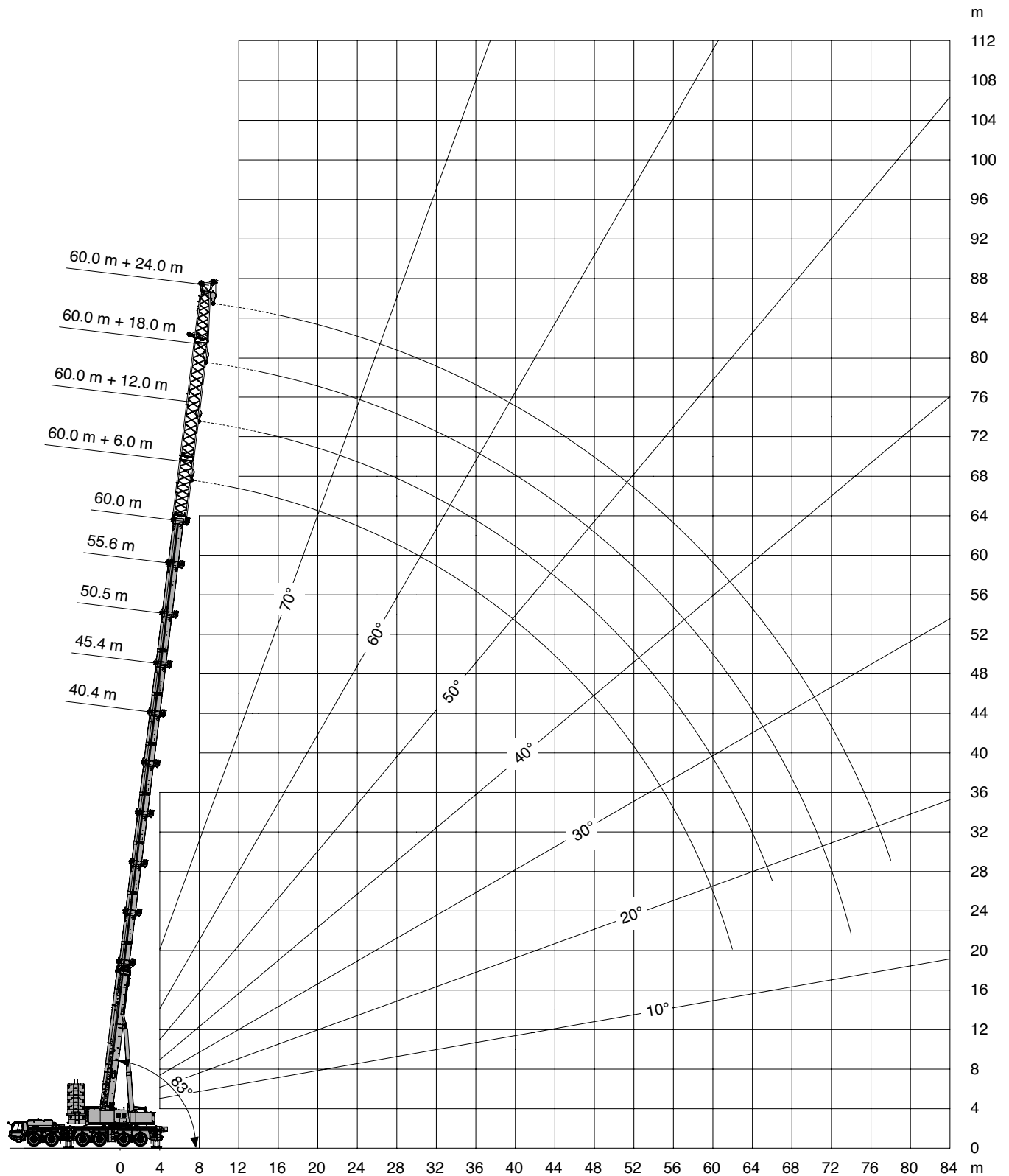
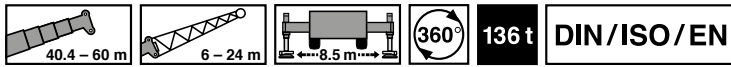
 m	35.3 m	40.4 m	45.4m	50.5 m	55.6 m	60.0 m
4.0	118.0					
4.5	118.0					
5.0	118.0					
6.0	118.0	84.2				
7.0	118.0	84.2	68.0			
8.0	116.3	84.2	68.0	58.0		
9.0	105.5	84.2	68.0	58.0	45.0	
10.0	96.4	84.2	68.0	58.0	45.0	36.0
11.0	88.7	84.2	68.0	58.0	45.0	36.0
12.0	82.1	81.6	68.0	58.0	44.8	36.0
14.0	71.2	70.9	68.0	58.0	44.4	35.1
16.0	62.6	62.5	62.2	52.3	44.0	34.0
18.0	55.5	55.6	55.4	50.4	43.7	33.4
20.0	48.5	49.8	49.8	48.4	41.3	33.0
22.0	41.9	43.2	44.0	45.0	37.7	32.7
24.0	36.6	37.9	38.6	39.6	34.9	32.4
26.0	32.2	33.5	34.2	35.2	33.6	31.3
28.0	28.4	29.7	30.5	31.5	32.3	29.1
30.0	25.2	26.4	27.2	28.3	29.1	27.4
32.0	19.2	23.6	24.4	25.4	26.3	26.3
34.0		21.2	22.0	23.0	23.8	23.9
36.0		18.4	19.8	20.8	21.6	21.7
38.0		11.3	17.9	18.9	19.7	19.8
40.0			16.3	17.2	18.0	18.1
42.0			12.6	15.7	16.5	16.6
44.0				14.4	15.1	15.2
46.0				12.9	13.9	14.0
48.0				8.3	12.8	12.9
50.0					11.8	11.8
52.0					9.5	10.9
54.0						10.1
56.0						8.4
58.0						3.7



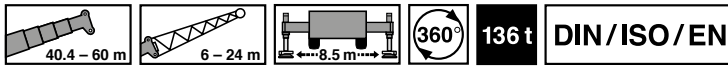
 m	35.3 m	40.4 m	45.4m	50.5 m	55.6 m	60.0 m
4.0	118.0					
4.5	118.0					
5.0	118.0					
6.0	118.0	84.2				
7.0	118.0	84.2	68.0			
8.0	116.3	84.2	68.0	58.0		
9.0	105.5	84.2	68.0	58.0	45.0	
10.0	96.4	84.2	68.0	58.0	45.0	36.0
11.0	88.7	84.2	68.0	58.0	45.0	36.0
12.0	82.1	81.6	68.0	58.0	44.8	36.0
14.0	70.2	69.8	68.0	58.0	44.4	35.1
16.0	58.2	58.9	58.1	52.3	44.0	34.0
18.0	48.6	49.9	50.1	49.9	43.7	33.4
20.0	41.2	42.5	43.3	43.8	41.3	33.0
22.0	35.3	36.7	37.5	38.5	37.7	32.7
24.0	30.4	31.8	32.6	33.7	34.5	32.4
26.0	26.4	27.7	28.6	29.6	30.5	30.6
28.0	23.0	24.3	25.2	26.2	27.1	27.1
30.0	20.2	21.4	22.3	23.3	24.1	24.2
32.0	17.8	19.0	19.8	20.8	21.7	21.7
34.0		16.8	17.7	18.7	19.5	19.6
36.0		15.0	15.8	16.8	17.6	17.7
38.0		11.3	14.1	15.1	15.9	16.0
40.0			12.7	13.6	14.4	14.5
42.0			11.4	12.3	13.1	13.2
44.0				11.1	11.9	12.0
46.0				10.1	10.8	10.9
48.0				8.3	9.8	9.9
50.0					8.9	9.0
52.0					8.1	8.2
54.0						7.5
56.0						6.8
58.0						3.7

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона

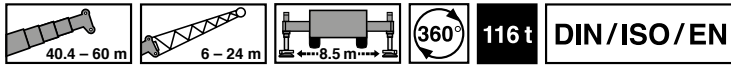


Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

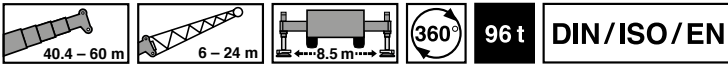


m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
	+ 6.0 m					+ 12.0 m					+ 18.0 m					+ 24.0 m				
7.0	58.6																			
8.0	58.6	58.6																		
9.0	58.6	58.6	45.6			52.3														
10.0	58.6	57.7	45.6	35.9		50.0	42.4	33.7			34.3									
11.0	58.6	54.0	44.6	35.9	30.7	47.9	42.4	33.7			32.8	30.9					24.6			
12.0	57.0	50.7	42.1	35.9	30.7	45.9	42.4	33.7	27.1		31.4	30.3	25.1				23.8	22.6		
14.0	50.8	45.2	37.9	33.0	30.7	42.5	40.6	32.4	27.1	23.5	29.0	28.2	25.1	20.5	18.0	22.2	21.4	18.8		
16.0	45.9	40.8	34.5	30.0	29.0	39.5	36.7	29.4	26.5	23.5	26.9	26.4	25.1	20.5	18.0	20.8	20.2	18.8	15.6	13.9
18.0	41.6	37.0	31.6	27.4	26.6	36.6	33.4	26.9	24.3	23.4	25.0	24.8	23.9	20.5	18.0	19.5	19.1	18.2	15.6	13.9
20.0	37.5	33.9	29.1	25.3	24.5	33.6	30.6	24.8	22.3	21.6	23.4	23.3	22.1	20.0	18.0	18.2	18.1	17.3	15.6	13.9
22.0	34.1	31.3	27.0	23.4	22.7	31.0	28.2	23.0	20.7	20.0	22.0	22.0	20.5	18.5	17.9	17.1	17.0	16.6	15.6	13.9
24.0	31.2	29.0	25.2	21.8	21.2	28.8	26.1	21.4	19.2	18.3	20.7	20.8	19.0	17.2	16.4	16.1	16.1	15.8	15.2	13.9
26.0	28.8	27.0	23.6	20.4	19.5	26.8	24.3	20.0	17.9	16.8	19.6	19.7	17.8	16.1	15.0	15.2	15.3	15.0	14.5	13.4
28.0	26.6	25.3	22.1	19.1	18.0	25.1	22.7	18.8	16.8	15.6	18.6	18.8	16.7	15.1	13.8	14.4	14.5	14.3	13.6	12.3
30.0	24.7	23.7	20.9	18.0	16.7	23.6	21.3	17.7	15.8	14.4	17.6	17.9	15.7	14.2	12.8	13.6	13.8	13.7	12.8	11.3
32.0	23.0	22.3	19.8	17.0	15.6	22.2	20.1	16.7	14.9	13.4	16.8	17.1	14.8	13.4	11.9	13.0	13.2	13.1	12.0	10.5
34.0	21.5	21.0	18.8	16.1	14.6	21.0	18.9	15.8	14.1	12.5	16.1	16.4	14.0	12.6	11.1	12.3	12.6	12.4	11.3	9.7
36.0	20.1	19.6	17.8	15.3	13.7	19.6	17.9	15.0	13.4	11.7	15.4	15.7	13.3	12.0	10.3	11.8	12.0	11.8	10.7	9.0
38.0	18.9	18.4	17.0	14.6	12.8	18.5	17.0	14.3	12.7	10.9	14.7	15.1	12.6	11.3	9.6	11.3	11.5	11.2	10.2	8.4
40.0	17.8	17.4	16.3	13.9	12.1	17.4	16.2	13.6	12.1	10.3	14.2	14.6	12.0	10.8	9.0	10.8	11.1	10.6	9.7	7.8
42.0	16.0	16.4	15.6	13.3	11.4	16.4	15.4	13.0	11.6	9.7	13.7	14.0	11.5	10.3	8.5	10.4	10.7	10.1	9.2	7.3
44.0	10.9	15.5	15.0	12.7	10.8	15.5	14.7	12.5	11.0	9.1	13.2	13.4	11.0	9.8	8.0	10.0	10.3	9.7	8.7	6.9
46.0		14.7	14.3	12.2	10.2	14.7	14.1	12.0	10.6	8.6	12.7	12.8	10.5	9.4	7.5	9.6	9.9	9.2	8.3	6.4
48.0		11.6	13.7	11.8	9.7	12.9	13.5	11.5	10.1	8.2	12.4	12.3	10.1	9.0	7.1	9.3	9.6	8.8	8.0	6.0
50.0			13.0	11.3	9.2	8.7	12.6	11.1	9.7	7.7	12.0	11.8	9.7	8.6	6.7	9.0	9.3	8.5	7.6	5.7
54.0			7.8	10.6	8.3		9.3	10.3	9.0	7.0	10.5	10.9	9.0	7.9	6.0	8.4	8.7	7.8	7.0	5.0
58.0				8.6	7.4			9.2	8.4	6.3		9.8	8.4	7.4	5.4	8.0	8.2	7.2	6.5	4.4
62.0					6.5				7.9	5.7			7.9	6.9	4.8	5.1	7.8	6.8	5.9	3.9
66.0										5.2			5.0	6.4	4.4		5.8	6.3	5.4	3.5
70.0														5.6	4.0			6.0	5.0	3.1
74.0															3.7				4.6	2.8
78.0																				2.5

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



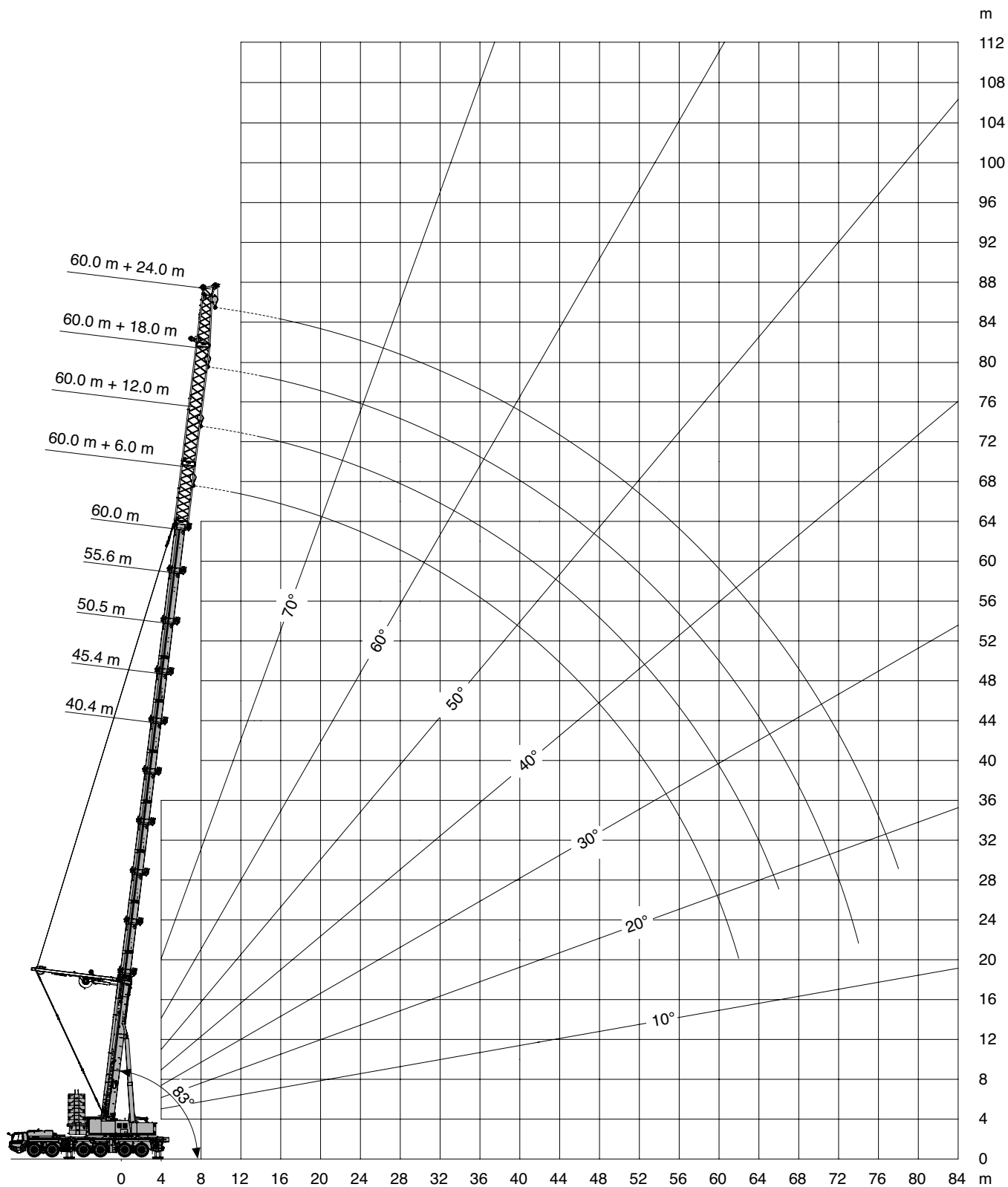
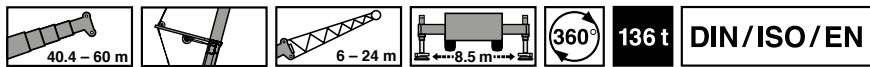
m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
	+ 6.0 m					+ 12.0 m					+ 18.0 m					+ 24.0 m				
7.0	58.6																			
8.0	58.6	58.6																		
9.0	58.6	58.6	45.6			52.3														
10.0	58.6	57.7	45.6	35.9		50.0	42.4	33.7			34.3									
11.0	58.6	54.0	44.6	35.9	30.7	47.9	42.4	33.7			32.8	30.9				24.6				
12.0	57.0	50.7	42.1	35.9	30.7	45.9	42.4	33.7	27.1		31.4	30.3	25.1			23.8	22.6			
14.0	50.8	45.2	37.9	33.0	30.7	42.5	40.6	32.4	27.1	23.5	29.0	28.2	25.1	20.5	18.0	22.2	21.4	18.8		
16.0	45.9	40.8	34.5	30.0	29.0	39.5	36.7	29.4	26.5	23.5	26.9	26.4	25.1	20.5	18.0	20.8	20.2	18.8	15.6	13.9
18.0	41.6	37.0	31.6	27.4	26.6	36.6	33.4	26.9	24.3	23.4	25.0	24.8	23.9	20.5	18.0	19.5	19.1	18.2	15.6	13.9
20.0	37.5	33.9	29.1	25.3	24.5	33.6	30.6	24.8	22.3	21.6	23.4	23.3	22.1	20.0	18.0	18.2	18.1	17.3	15.6	13.9
22.0	34.1	31.3	27.0	23.4	22.7	31.0	28.2	23.0	20.7	20.0	22.0	22.0	20.5	18.5	17.9	17.1	17.0	16.6	15.6	13.9
24.0	31.2	29.0	25.2	21.8	21.2	28.8	26.1	21.4	19.2	18.3	20.7	20.8	19.0	17.2	16.4	16.1	16.1	15.8	15.2	13.9
26.0	28.8	27.0	23.6	20.4	19.5	26.8	24.3	20.0	17.9	16.8	19.6	19.7	17.8	16.1	15.0	15.2	15.3	15.0	14.5	13.4
28.0	26.6	25.3	22.1	19.1	18.0	25.1	22.7	18.8	16.8	15.6	18.6	18.8	16.7	15.1	13.8	14.4	14.5	14.3	13.6	12.3
30.0	24.7	23.7	20.9	18.0	16.7	23.6	21.3	17.7	15.8	14.4	17.6	17.9	15.7	14.2	12.8	13.6	13.8	13.7	12.8	11.3
32.0	23.0	22.3	19.8	17.0	15.6	22.2	20.1	16.7	14.9	13.4	16.8	17.1	14.8	13.4	11.9	13.0	13.2	13.1	12.0	10.5
34.0	21.5	21.0	18.8	16.1	14.6	21.0	18.9	15.8	14.1	12.5	16.1	16.4	14.0	12.6	11.1	12.3	12.6	12.4	11.3	9.7
36.0	20.1	19.6	17.8	15.3	13.7	19.6	17.9	15.0	13.4	11.7	15.4	15.7	13.3	12.0	10.3	11.8	12.0	11.8	10.7	9.0
38.0	18.9	18.4	17.0	14.6	12.8	18.5	17.0	14.3	12.7	10.9	14.7	15.1	12.6	11.3	9.6	11.3	11.5	11.2	10.2	8.4
40.0	17.4	17.4	16.3	13.9	12.1	17.4	16.2	13.6	12.1	10.3	14.2	14.6	12.0	10.8	9.0	10.8	11.1	10.6	9.7	7.8
42.0	16.0	16.3	15.6	13.3	11.4	16.4	15.4	13.0	11.6	9.7	13.7	14.0	11.5	10.3	8.5	10.4	10.7	10.1	9.2	7.3
44.0	10.9	15.0	15.0	12.7	10.8	15.2	14.7	12.5	11.0	9.1	13.2	13.4	11.0	9.8	8.0	10.0	10.3	9.7	8.7	6.9
46.0		13.9	14.3	12.2	10.2	14.0	14.1	12.0	10.6	8.6	12.7	12.8	10.5	9.4	7.5	9.6	9.9	9.2	8.3	6.4
48.0		11.6	13.3	11.8	9.7	12.9	13.1	11.5	10.1	8.2	12.4	12.3	10.1	9.0	7.1	9.3	9.6	8.8	8.0	6.0
50.0			12.4	11.3	9.2	8.7	12.2	11.1	9.7	7.7	12.0	11.8	9.7	8.6	6.7	9.0	9.3	8.5	7.6	5.7
54.0			7.8	10.6	8.3		9.3	10.3	9.0	7.0	10.5	10.8	9.0	7.9	6.0	8.4	8.7	7.8	7.0	5.0
58.0				8.6	7.4			9.2	8.4	6.3		9.3	8.4	7.4	5.4	8.0	8.2	7.2	6.5	4.4
62.0					6.5				7.9	5.7			7.9	6.9	4.8	5.1	7.8	6.8	5.9	3.9
66.0										5.2			5.0	6.4	4.4		5.8	6.3	5.4	3.5
70.0														5.6	4.0			6.0	5.0	3.1
74.0															3.7				4.6	2.8
78.0																				2.5



m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	
	+ 6.0 m					+ 12.0 m					+ 18.0 m					+ 24.0 m					
7.0	54.2																				
8.0	50.7	43.2																			
9.0	47.6	40.8	32.2			43.5															
10.0	44.9	38.6	30.5	26.8		41.0	34.9	27.5			34.3										
11.0	42.5	36.8	29.0	25.5	24.2	38.8	33.1	26.1			32.8	30.2				24.6					
12.0	40.4	35.1	27.6	24.2	23.0	36.8	31.5	24.8	22.1		31.4	28.7	22.9			23.8	22.6				
14.0	36.8	32.2	25.2	22.1	21.0	33.4	28.8	22.6	20.3	19.1	29.0	26.2	20.9	18.2	17.3	22.2	21.4	18.8			
16.0	33.8	29.7	23.3	20.4	19.3	30.6	26.5	20.8	18.7	17.6	26.9	24.1	19.2	16.8	16.0	20.8	20.2	17.3	15.2	13.9	
18.0	31.3	27.5	21.7	18.9	18.0	28.2	24.6	19.3	17.3	16.3	25.0	22.3	17.8	15.7	14.9	19.5	19.1	16.1	14.1	13.4	
20.0	29.2	25.5	20.3	17.7	16.8	26.2	23.0	18.0	16.1	15.2	23.4	20.8	16.5	14.6	13.9	18.2	18.1	15.0	13.1	12.5	
22.0	27.4	23.9	19.1	16.6	15.7	24.5	21.6	16.8	15.0	14.2	22.0	19.5	15.4	13.7	13.1	17.1	17.0	14.1	12.3	11.7	
24.0	25.8	22.4	18.0	15.6	14.8	23.0	20.4	15.9	14.1	13.3	20.7	18.3	14.5	12.9	12.3	16.1	16.1	13.2	11.6	11.0	
26.0	24.4	21.2	17.1	14.8	14.0	21.7	19.3	15.0	13.3	12.6	19.6	17.3	13.6	12.2	11.5	15.2	15.3	12.4	10.9	10.4	
28.0	22.9	20.0	16.2	14.0	13.3	20.5	18.2	14.2	12.6	11.9	18.6	16.4	12.9	11.5	10.9	14.4	14.5	11.7	10.3	9.9	
30.0	21.5	19.0	15.5	13.4	12.6	19.5	17.3	13.5	12.0	11.3	17.6	15.6	12.2	10.9	10.3	13.6	13.8	11.0	9.8	9.4	
32.0	20.3	18.2	14.8	12.8	12.1	18.6	16.4	12.9	11.4	10.7	16.8	14.8	11.6	10.3	9.8	13.0	13.2	10.5	9.3	8.9	
34.0	18.5	17.3	14.3	12.2	11.5	17.7	15.6	12.3	10.9	10.2	16.1	14.2	11.1	9.8	9.3	12.3	12.6	9.9	8.9	8.4	
36.0	16.8	16.6	13.7	11.7	11.1	17.0	14.9	11.8	10.4	9.8	15.4	13.6	10.6	9.4	8.9	11.8	12.0	9.5	8.4	8.0	
38.0	15.2	15.5	13.2	11.3	10.6	15.7	14.3	11.3	9.9	9.4	14.7	13.0	10.1	8.9	8.5	11.3	11.5	9.0	8.0	7.6	
40.0	13.8	14.1	12.8	10.9	10.2	14.3	13.7	10.9	9.5	9.0	14.1	12.5	9.7	8.6	8.1	10.8	11.1	8.6	7.7	7.3	
42.0	12.6	12.9	12.4	10.5	9.9	13.1	13.2	10.5	9.2	8.6	13.6	12.0	9.3	8.2	7.8	10.4	10.7	8.3	7.3	6.9	
44.0	10.9	11.8	12.1	10.2	9.5	11.9	12.1	10.2	8.8	8.3	12.4	11.5	9.0	7.9	7.5	10.0	10.3	7.9	7.0	6.6	
46.0		10.8	11.3	9.8	9.2	10.9	11.1	9.8	8.5	8.0	11.4	11.1	8.7	7.6	7.2	9.6	9.9	7.6	6.7	6.4	
48.0		9.9	10.4	9.6	9.0	10.0	10.2	9.6	8.3	7.7	10.5	10.5	8.4	7.3	6.9	9.3	9.6	7.3	6.5	6.0	
50.0			9.6	9.3	8.7	8.7	9.3	9.3	8.0	7.5	9.6	9.7	8.1	7.1	6.7	9.0	9.3	7.1	6.2	5.7	
54.0			7.8	8.5	8.3		7.9	8.2	7.5	7.0	8.2	8.2	7.6	6.6	6.0	8.3	8.3	6.6	5.8	5.0	
58.0				7.2	7.2			7.0	7.2	6.3			6.9	7.2	6.2	5.4	7.0	7.0	6.2	5.4	4.4
62.0					6.1				6.2	5.7				6.1	5.9	4.8	5.1	5.9	5.0	3.9	
66.0										5.1				5.0	5.4	4.4		5.0	5.1	4.7	3.5
70.0															4.6	4.0			4.3	3.1	
74.0																3.7				3.7	2.8
78.0																					2.5

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

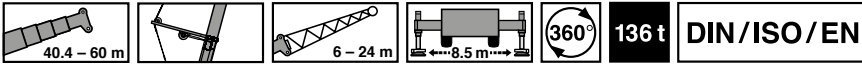
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона





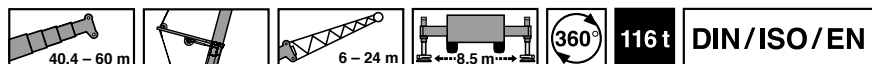
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность

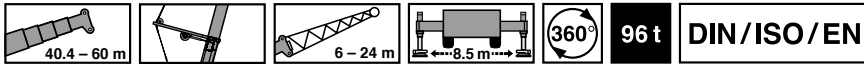


m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
	+ 6.0 m					+ 12.0 m					+ 18.0 m					+ 24.0 m				
7.0	58.6																			
8.0	58.6	55.2																		
9.0	58.6	54.4	41.0			47.6														
10.0	58.6	53.8	40.3	31.8		47.4	40.1	31.2			33.3									
11.0	58.6	53.1	39.9	30.6	28.1	47.4	39.8	31.2			33.3	29.4				25.2				
12.0	58.6	52.4	39.4	29.4	28.0	47.4	39.5	29.9	23.9		33.2	29.3	22.7			24.5	20.9			
14.0	58.6	51.0	38.5	28.7	26.1	45.2	38.7	28.9	23.9	20.9	31.1	29.1	22.7	17.9	15.7	23.3	20.9	16.8		
16.0	58.0	49.5	37.5	28.1	24.4	42.7	38.4	28.3	22.3	20.9	29.1	28.5	22.6	17.9	15.7	22.2	20.9	16.8	13.2	11.5
18.0	53.5	48.1	36.5	27.2	23.3	40.4	38.3	27.8	21.1	19.9	27.3	27.0	21.0	17.9	15.4	21.2	19.9	16.8	13.2	11.2
20.0	47.8	46.4	35.6	26.1	22.7	37.1	35.7	27.3	20.7	18.7	25.5	25.7	20.0	17.2	15.0	20.3	19.3	16.8	13.2	10.9
22.0	43.0	41.9	34.4	25.9	22.1	33.7	32.8	26.3	20.3	17.7	24.0	24.4	19.7	16.1	14.6	19.4	18.4	16.1	13.2	10.6
24.0	39.1	38.0	33.0	25.2	21.2	31.5	31.4	25.5	19.8	16.7	22.8	23.3	19.3	15.2	14.1	18.5	17.7	15.2	13.2	10.2
26.0	35.8	34.8	32.5	24.3	20.9	30.1	30.1	25.3	19.3	15.9	21.6	22.3	18.9	14.8	13.7	17.6	17.1	14.8	12.6	9.8
28.0	32.9	32.0	31.6	23.9	20.6	28.8	28.8	24.6	18.6	15.4	20.5	21.3	18.5	14.6	13.2	16.7	16.5	14.7	11.9	9.5
30.0	30.3	29.4	29.1	23.3	19.9	27.5	27.0	23.8	18.3	15.3	19.4	20.4	17.9	14.1	12.6	15.9	15.8	14.5	11.3	9.4
32.0	28.0	27.4	27.1	22.5	19.4	25.8	25.1	23.5	18.1	14.8	18.6	19.6	17.4	13.9	11.9	15.3	15.2	14.0	10.8	9.2
34.0	26.0	25.5	25.2	22.0	19.0	24.0	23.3	22.9	17.5	14.4	17.8	18.7	16.9	13.8	11.5	14.7	14.6	14.0	10.4	8.9
36.0	23.4	23.7	23.4	21.7	18.6	22.3	21.8	21.4	17.0	14.2	17.0	18.0	16.5	13.5	11.1	14.1	14.2	13.5	10.4	8.7
38.0	20.7	22.3	22.0	21.0	18.0	20.8	20.4	20.0	16.8	13.8	16.2	17.3	16.0	13.1	11.0	13.5	13.7	13.1	10.3	8.7
40.0	17.9	20.5	20.8	20.4	17.6	19.4	19.2	18.7	16.5	13.7	15.7	16.7	15.5	12.8	10.9	12.9	13.1	12.6	10.1	8.6
42.0	14.4	18.3	19.6	19.3	17.2	18.4	18.0	17.6	16.0	13.4	15.0	16.0	15.0	12.4	10.8	12.4	12.6	12.2	9.8	8.4
44.0	9.3	16.0	18.3	18.2	16.8	16.6	16.9	16.6	15.5	13.0	14.3	15.3	14.6	12.2	10.5	12.0	12.3	11.8	9.7	8.2
46.0		13.4	16.5	17.2	16.2	14.3	16.0	15.7	15.3	12.7	13.8	14.7	14.0	12.1	10.2	11.6	11.8	11.5	9.6	8.0
48.0		10.0	14.6	16.2	15.9	11.4	14.8	14.8	14.7	12.3	13.4	14.0	13.5	11.7	10.0	11.1	11.4	11.2	9.5	7.8
50.0			12.5	14.9	15.1	7.2	12.9	14.1	14.0	11.9	12.9	13.2	12.8	11.4	9.7	10.6	11.0	10.9	9.2	7.6
54.0			6.3	11.6	13.0		7.9	11.8	12.6	11.5	9.2	11.8	11.6	11.0	9.2	10.0	10.3	10.2	8.8	7.4
58.0				7.2	10.2			7.9	10.9	10.9		8.7	10.5	10.3	8.9	9.2	9.7	9.6	8.4	7.0
62.0					6.5				7.8	9.5			8.3	9.4	8.6	3.9	8.4	8.6	8.3	6.7
66.0										6.8			3.7	7.7	8.2		4.6	7.8	7.8	6.4
70.0														4.4	6.7			4.9	7.1	6.2
74.0															3.8				4.8	6.0
78.0																				4.0

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



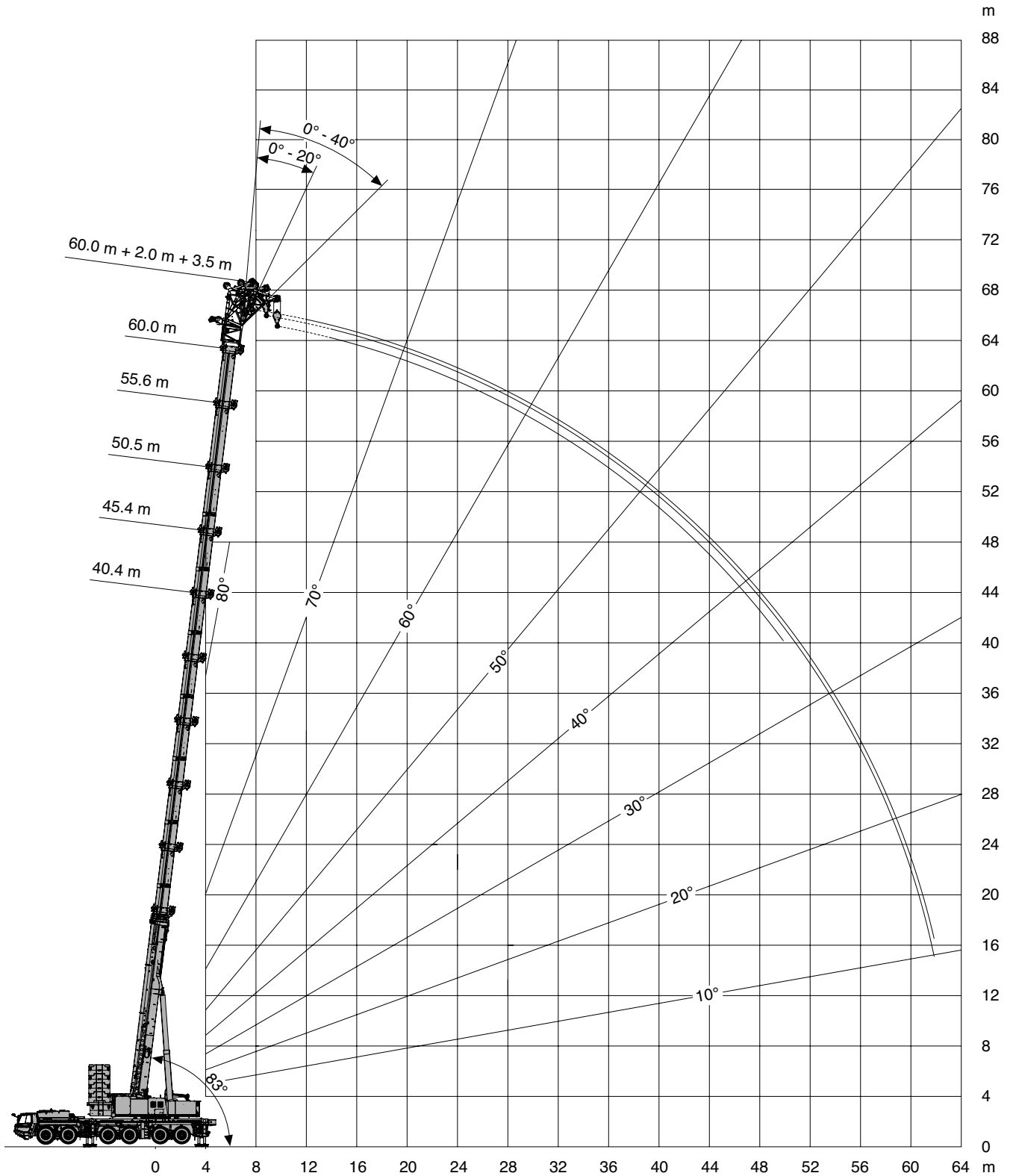
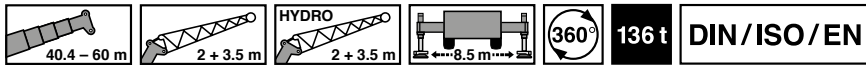
m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m
	+ 6.0 m					+ 12.0 m					+ 18.0 m					+ 24.0 m				
7.0	58.6																			
8.0	58.6	55.2																		
9.0	58.6	54.4	41.0			47.6														
10.0	58.6	53.8	40.3	31.8		47.4	40.1	31.2			33.3									
11.0	58.6	53.1	39.9	30.6	28.1	47.4	39.8	31.2			33.3	29.4				25.2				
12.0	58.6	52.4	39.4	29.4	28.0	47.4	39.5	29.9	23.9		33.2	29.3	22.7			24.5	20.9			
14.0	58.6	51.0	38.5	28.7	26.1	45.2	38.7	28.9	23.9	20.9	31.1	29.1	22.7	17.9	15.7	23.3	20.9	16.8		
16.0	58.0	49.5	37.5	28.1	24.4	42.7	38.4	28.3	22.3	20.9	29.1	28.5	22.6	17.9	15.7	22.2	20.9	16.8	13.2	11.5
18.0	53.5	48.1	36.5	27.2	23.3	40.4	38.3	27.8	21.1	19.9	27.3	27.0	21.0	17.9	15.4	21.2	19.9	16.8	13.2	11.2
20.0	47.8	46.4	35.6	26.1	22.7	37.1	35.7	27.3	20.7	18.7	25.5	25.7	20.0	17.2	15.0	20.3	19.3	16.8	13.2	10.9
22.0	43.0	41.9	34.4	25.9	22.1	33.7	32.8	26.3	20.3	17.7	24.0	24.4	19.7	16.1	14.6	19.4	18.4	16.1	13.2	10.6
24.0	38.8	38.0	33.0	25.2	21.2	31.5	31.4	25.5	19.8	16.7	22.8	23.3	19.3	15.2	14.1	18.5	17.7	15.2	13.2	10.2
26.0	34.4	34.8	32.5	24.3	20.9	30.1	30.1	25.3	19.3	15.9	21.6	22.3	18.9	14.8	13.7	17.6	17.1	14.8	12.6	9.8
28.0	30.7	31.3	31.6	23.9	20.6	28.8	28.8	24.6	18.6	15.4	20.5	21.3	18.5	14.6	13.2	16.7	16.5	14.7	11.9	9.5
30.0	27.4	28.0	28.8	23.3	19.9	27.5	27.0	23.8	18.3	15.3	19.4	20.4	17.9	14.1	12.6	15.9	15.8	14.5	11.3	9.4
32.0	24.6	25.2	26.0	22.5	19.4	25.5	25.1	23.5	18.1	14.8	18.6	19.6	17.4	13.9	11.9	15.3	15.2	14.0	10.8	9.2
34.0	22.2	22.7	23.5	22.0	19.0	23.0	23.3	22.9	17.5	14.4	17.8	18.7	16.9	13.8	11.5	14.7	14.6	14.0	10.4	8.9
36.0	20.0	20.6	21.3	21.7	18.6	20.9	21.2	21.4	17.0	14.2	17.0	18.0	16.5	13.5	11.1	14.1	14.2	13.5	10.4	8.7
38.0	18.1	18.7	19.4	19.9	18.0	18.9	19.3	19.8	16.8	13.8	16.2	17.3	16.0	13.1	11.0	13.5	13.7	13.1	10.3	8.7
40.0	16.5	17.0	17.7	18.2	17.6	17.3	17.6	18.1	16.5	13.7	15.7	16.7	15.5	12.8	10.9	12.9	13.1	12.6	10.1	8.6
42.0	14.4	15.5	16.2	16.7	16.8	15.7	16.1	16.6	16.0	13.4	15.0	16.0	15.0	12.4	10.8	12.4	12.6	12.2	9.8	8.4
44.0	9.3	14.1	14.8	15.3	15.5	14.4	14.7	15.2	15.5	13.0	14.3	15.3	14.6	12.2	10.5	12.0	12.3	11.8	9.7	8.2
46.0		12.9	13.6	14.1	14.2	13.1	13.5	13.9	14.4	12.7	13.8	14.0	14.0	12.1	10.2	11.6	11.8	11.5	9.6	8.0
48.0		10.0	12.5	13.0	13.1	11.4	12.4	12.8	13.3	12.3	12.8	12.9	13.3	11.7	10.0	11.1	11.4	11.2	9.5	7.8
50.0			11.4	12.0	12.0	7.2	11.3	11.8	12.3	11.9	11.7	11.9	12.3	11.4	9.7	10.6	11.0	10.9	9.2	7.6
54.0			6.3	10.2	10.2		7.9	10.0	10.4	10.4	9.2	10.0	10.5	10.8	9.2	10.0	10.3	10.2	8.8	7.4
58.0				7.2	8.7			7.9	8.9	8.8		8.5	8.9	9.2	8.9	8.7	8.8	9.0	8.4	7.0
62.0					6.5				7.6	7.5			7.6	7.9	7.7	3.9	7.4	7.7	7.9	6.7
66.0										6.3				6.7	6.6		4.6	6.5	6.7	6.4
70.0														4.4	5.6			4.9	5.7	5.5
74.0															3.8				4.8	4.6
78.0																				3.8



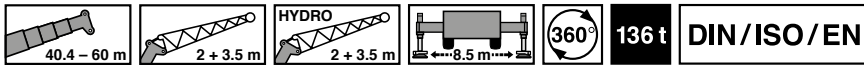
m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m	40.4 m	45.4 m	50.5 m	55.6 m	60.0 m		
	+ 6.0 m					+ 12.0 m					+ 18.0 m					+ 24.0 m						
7.0	58.6																					
8.0	58.6	55.2																				
9.0	58.6	54.4	41.0			47.6																
10.0	58.6	53.8	40.3	31.8		47.4	40.1	31.2			33.3											
11.0	58.6	53.1	39.9	30.6	28.1	47.4	39.8	31.2			33.3	29.4				25.2						
12.0	58.6	52.4	39.4	29.4	28.0	47.4	39.5	29.9	23.9		33.2	29.3	22.7			24.5	20.9					
14.0	58.6	51.0	38.5	28.7	26.1	45.2	38.7	28.9	23.9	20.9	31.1	29.1	22.7	17.9	15.7	23.3	20.9	16.8				
16.0	57.9	49.5	37.5	28.1	24.4	42.7	38.4	28.3	22.3	20.9	29.1	28.5	22.6	17.9	15.7	22.2	20.9	16.8	13.2	11.5		
18.0	49.9	48.1	36.5	27.2	23.3	40.4	38.3	27.8	21.1	19.9	27.3	27.0	21.0	17.9	15.4	21.2	19.9	16.8	13.2	11.2		
20.0	43.5	43.1	35.6	26.1	22.7	37.1	35.7	27.3	20.7	18.7	25.5	25.7	20.0	17.2	15.0	20.3	19.3	16.8	13.2	10.9		
22.0	37.7	38.1	34.4	25.9	22.1	33.7	32.8	26.3	20.3	17.7	24.0	24.4	19.7	16.1	14.6	19.4	18.4	16.1	13.2	10.6		
24.0	32.8	33.4	33.0	25.2	21.2	31.5	31.4	25.5	19.8	16.7	22.8	23.3	19.3	15.2	14.1	18.5	17.7	15.2	13.2	10.2		
26.0	28.8	29.4	30.2	24.3	20.9	29.7	30.1	25.3	19.3	15.9	21.6	22.3	18.9	14.8	13.7	17.6	17.1	14.8	12.6	9.8		
28.0	25.4	25.9	26.7	23.9	20.6	26.3	26.7	24.6	18.6	15.4	20.5	21.3	18.5	14.6	13.2	16.7	16.5	14.7	11.9	9.5		
30.0	22.5	23.1	23.8	23.3	19.9	23.4	23.8	23.8	18.3	15.3	19.4	20.4	17.9	14.1	12.6	15.9	15.8	14.5	11.3	9.4		
32.0	20.0	20.6	21.3	21.9	19.4	20.9	21.3	21.7	18.1	14.8	18.6	19.6	17.4	13.9	11.9	15.3	15.2	14.0	10.8	9.2		
34.0	17.9	18.4	19.2	19.7	19.0	18.7	19.1	19.6	17.5	14.4	17.8	18.7	16.9	13.8	11.5	14.7	14.6	14.0	10.4	8.9		
36.0	16.0	16.5	17.3	17.8	17.9	16.8	17.2	17.7	17.0	14.2	17.0	17.8	16.5	13.5	11.1	14.1	14.2	13.5	10.4	8.7		
38.0	14.3	14.9	15.6	16.1	16.3	15.1	15.5	16.0	16.5	13.8	15.9	16.1	16.0	13.1	11.0	13.5	13.7	13.1	10.3	8.7		
40.0	12.9	13.4	14.1	14.6	14.8	13.7	14.0	14.5	15.0	13.7	14.4	14.6	15.0	12.8	10.9	12.9	13.1	12.6	10.1	8.6		
42.0	11.6	12.1	12.8	13.3	13.4	12.3	12.7	13.2	13.7	13.4	13.1	13.2	13.7	12.4	10.8	12.4	12.6	12.2	9.8	8.4		
44.0		9.3	10.9	11.6	12.1	12.2	11.1	11.5	11.9	12.5	12.4	11.9	12.0	12.5	12.2	10.5	12.0	12.3	11.8	9.7	8.2	
46.0			9.8	10.5	11.0	11.1	10.1	10.4	10.9	11.4	11.3	10.8	10.9	11.4	11.7	10.2	11.2	11.3	11.5	9.6	8.0	
48.0			8.8	9.5	10.0	10.1	9.1	9.4	9.9	10.4	10.3	9.8	9.9	10.4	10.7	10.0	10.2	10.3	10.5	9.5	7.8	
50.0				8.6	9.1	9.2	7.2	8.5	9.0	9.5	9.4	8.9	9.0	9.5	9.8	9.6	9.3	9.3	9.6	9.2	7.6	
54.0					6.3	7.6	7.6		6.9	7.4	7.8	7.8	7.3	7.5	7.9	8.2	8.0	7.7	7.7	8.0	7.4	
58.0						6.2	6.3			6.0	6.5	6.4		6.1	6.5	6.8	6.7	6.3	6.4	6.6	6.7	
62.0							5.1								5.3	5.6	5.5	3.9	5.2	5.4	5.5	
66.0																3.7	4.6	4.5		4.4	4.6	4.5
70.0																	3.7	3.6			3.5	3.6
74.0																					2.9	2.8
78.0																						2.1

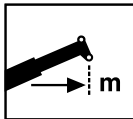
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

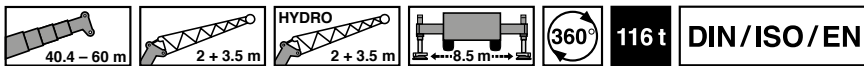
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона

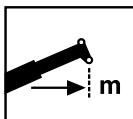


Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность

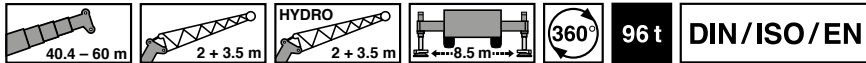


 m	40.4 m + 2.0 m + 3.5 m			45.4 m + 2.0 m + 3.5 m			50.5 m + 2.0 m + 3.5 m			55.6 m + 2.0 m + 3.5 m			60.0 m + 2.0 m + 3.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
8.0	58.6														
9.0	58.6	58.6		58.6											
10.0	58.6	58.4	55.7	55.8	51.9		45.0								
11.0	58.6	55.1	52.7	52.3	49.3	46.5	42.5	39.0		37.3					
12.0	55.4	52.1	50.0	49.2	46.7	44.4	40.2	37.1	35.2	35.3	33.0		31.8		
14.0	49.5	46.9	45.3	43.9	41.9	40.7	36.3	33.8	32.2	31.8	30.0	28.8	30.7	29.0	27.9
16.0	44.8	42.7	41.4	39.6	38.0	37.1	33.0	31.0	29.7	28.9	27.4	26.4	27.9	26.5	25.6
18.0	40.8	39.1	38.1	36.0	34.7	34.0	30.3	28.6	27.5	26.5	25.2	24.4	25.6	24.4	23.7
20.0	36.8	36.1	35.2	33.0	31.9	31.3	28.0	26.5	25.7	24.4	23.3	22.7	23.6	22.6	22.0
22.0	33.4	33.3	32.8	30.4	29.5	29.0	26.0	24.7	24.0	22.6	21.7	21.1	21.8	20.9	20.3
24.0	30.5	30.5	30.4	28.2	27.4	27.0	24.2	23.2	22.6	21.0	20.2	19.8	19.9	19.2	18.7
26.0	28.0	28.0	28.0	26.2	25.6	25.3	22.7	21.8	21.3	19.6	19.0	18.6	18.3	17.7	17.3
28.0	25.9	25.8	25.8	24.5	24.0	23.7	21.3	20.5	20.1	18.4	17.8	17.5	16.8	16.3	16.0
30.0	24.0	23.9	23.9	23.0	22.5	22.3	20.1	19.4	19.1	17.3	16.8	16.6	15.6	15.2	14.9
32.0	22.3	22.3	22.3	21.6	21.3	21.1	19.0	18.4	18.1	16.3	15.9	15.7	14.5	14.1	13.9
34.0	20.8	20.8	20.8	20.2	20.1	20.0	18.0	17.5	17.3	15.5	15.1	14.9	13.5	13.2	13.0
36.0	19.4	19.4	19.4	18.8	18.9	18.9	17.2	16.7	16.5	14.7	14.3	14.2	12.6	12.3	12.2
38.0	18.2	18.2		17.7	17.7	17.7	16.4	16.0	15.8	13.9	13.6	13.5	11.8	11.6	11.5
40.0	17.1	17.1		16.5	16.6	16.6	15.6	15.3	15.2	13.3	13.0	12.9	11.0	10.9	10.8
42.0	13.8	14.0		15.3	15.3		14.9	14.7	14.6	12.7	12.4	12.4	10.4	10.2	10.2
44.0	5.5			14.2	14.2		14.2	14.1	14.1	12.1	11.9	11.9	9.7	9.6	9.6
46.0				13.0	13.2		13.2	13.3		11.6	11.4	11.4	9.2	9.1	9.1
48.0				8.9			12.3	12.4		11.1	11.0	11.0	8.7	8.6	8.6
50.0							11.5	11.5		10.7	10.6		8.2	8.1	8.1
54.0							4.1			10.0	9.9		7.1	7.2	
58.0										6.3			6.1	6.2	
62.0													5.3	5.3	

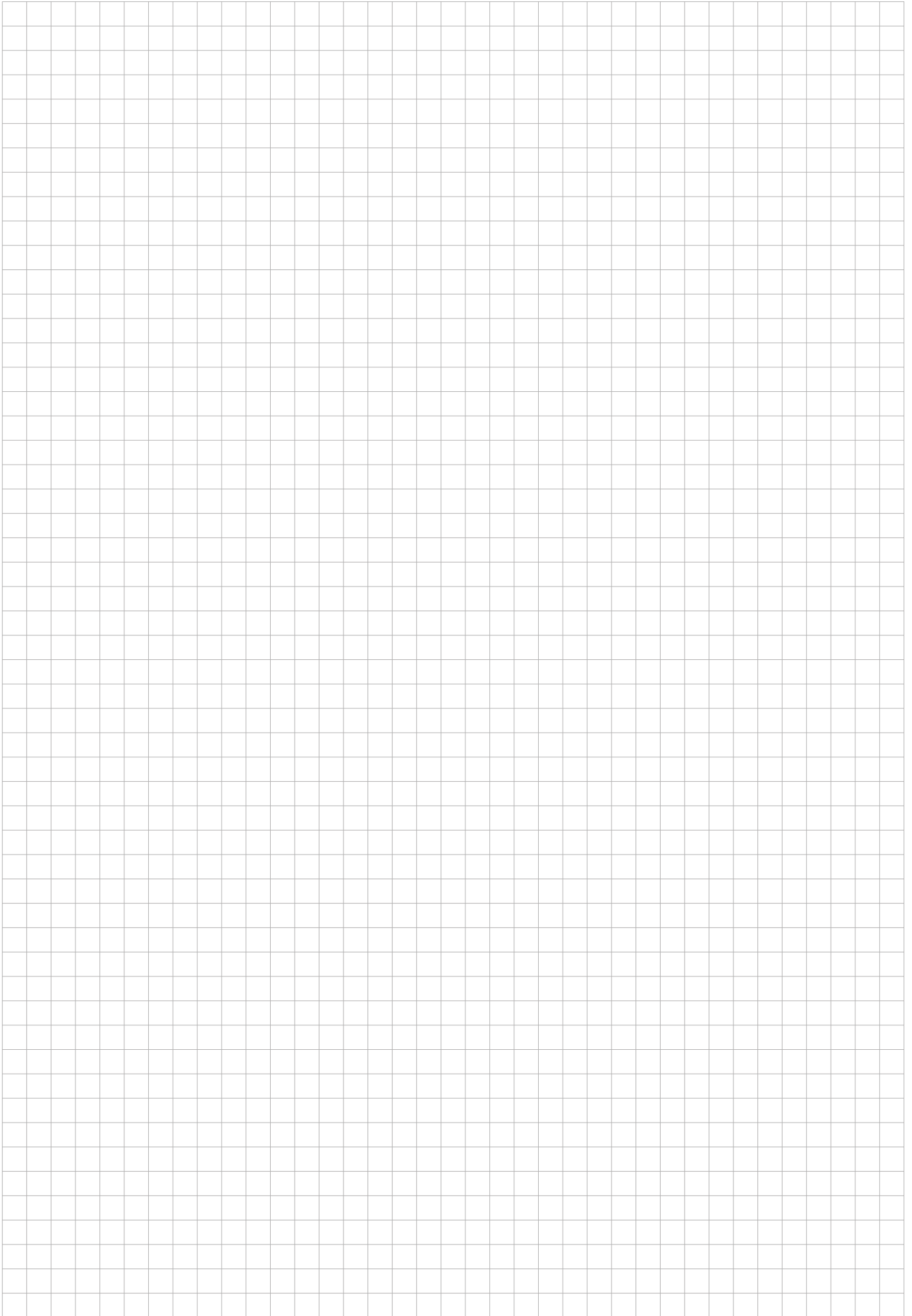


 m	40.4 m + 2.0 m + 3.5 m			45.4 m + 2.0 m + 3.5 m			50.5 m + 2.0 m + 3.5 m			55.6 m + 2.0 m + 3.5 m			60.0 m + 2.0 m + 3.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
8.0	58.6														
9.0	58.6	58.6		58.6											
10.0	58.6	58.4	55.7	55.8	51.9		45.0								
11.0	58.6	55.1	52.7	52.3	49.3	46.5	42.5	39.0		37.3					
12.0	55.4	52.1	50.0	49.2	46.7	44.4	40.2	37.1	35.2	35.3	33.0		31.8		
14.0	49.5	46.9	45.3	43.9	41.9	40.7	36.3	33.8	32.2	31.8	30.0	28.8	30.7	29.0	27.9
16.0	44.8	42.7	41.4	39.6	38.0	37.1	33.0	31.0	29.7	28.9	27.4	26.4	27.9	26.5	25.6
18.0	40.8	39.1	38.1	36.0	34.7	34.0	30.3	28.6	27.5	26.5	25.2	24.4	25.6	24.4	23.7
20.0	36.8	36.1	35.2	33.0	31.9	31.3	28.0	26.5	25.7	24.4	23.3	22.7	23.6	22.6	22.0
22.0	33.4	33.3	32.8	30.4	29.5	29.0	26.0	24.7	24.0	22.6	21.7	21.1	21.8	20.9	20.3
24.0	30.5	30.5	30.4	28.2	27.4	27.0	24.2	23.2	22.6	21.0	20.2	19.8	19.9	19.2	18.7
26.0	28.0	28.0	28.0	26.2	25.6	25.3	22.7	21.8	21.3	19.6	19.0	18.6	18.3	17.7	17.3
28.0	25.9	25.8	25.8	24.5	24.0	23.7	21.3	20.5	20.1	18.4	17.8	17.5	16.8	16.3	16.0
30.0	24.0	23.9	23.9	23.0	22.5	22.3	20.1	19.4	19.1	17.3	16.8	16.6	15.6	15.2	14.9
32.0	22.3	22.3	22.3	21.6	21.3	21.1	19.0	18.4	18.1	16.3	15.9	15.7	14.5	14.1	13.9
34.0	20.8	20.8	20.8	20.2	20.1	20.0	18.0	17.5	17.3	15.5	15.1	14.9	13.5	13.2	13.0
36.0	19.4	19.4	19.4	18.8	18.9	18.9	17.2	16.7	16.5	14.7	14.3	14.2	12.6	12.3	12.2
38.0	17.7	17.8		17.7	17.7	17.7	16.4	16.0	15.8	13.9	13.6	13.5	11.8	11.6	11.5
40.0	16.1	16.2		16.4	16.5	16.5	15.6	15.3	15.2	13.3	13.0	12.9	11.0	10.9	10.8
42.0	13.8	14.0		15.0	15.1		14.9	14.7	14.6	12.7	12.4	12.4	10.4	10.2	10.2
44.0	5.5			13.7	13.7		14.2	14.1	14.1	12.1	11.9	11.9	9.7	9.6	9.6
46.0				12.5	12.5		13.0	13.1		11.6	11.4	11.4	9.2	9.1	9.1
48.0				8.9			12.0	12.0		11.1	11.0	11.0	8.7	8.6	8.6
50.0							11.0	11.1		10.7	10.6		8.2	8.1	8.1
54.0							4.1			9.8	9.8		7.1	7.2	
58.0										6.3			6.1	6.2	
62.0													5.3	5.3	

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

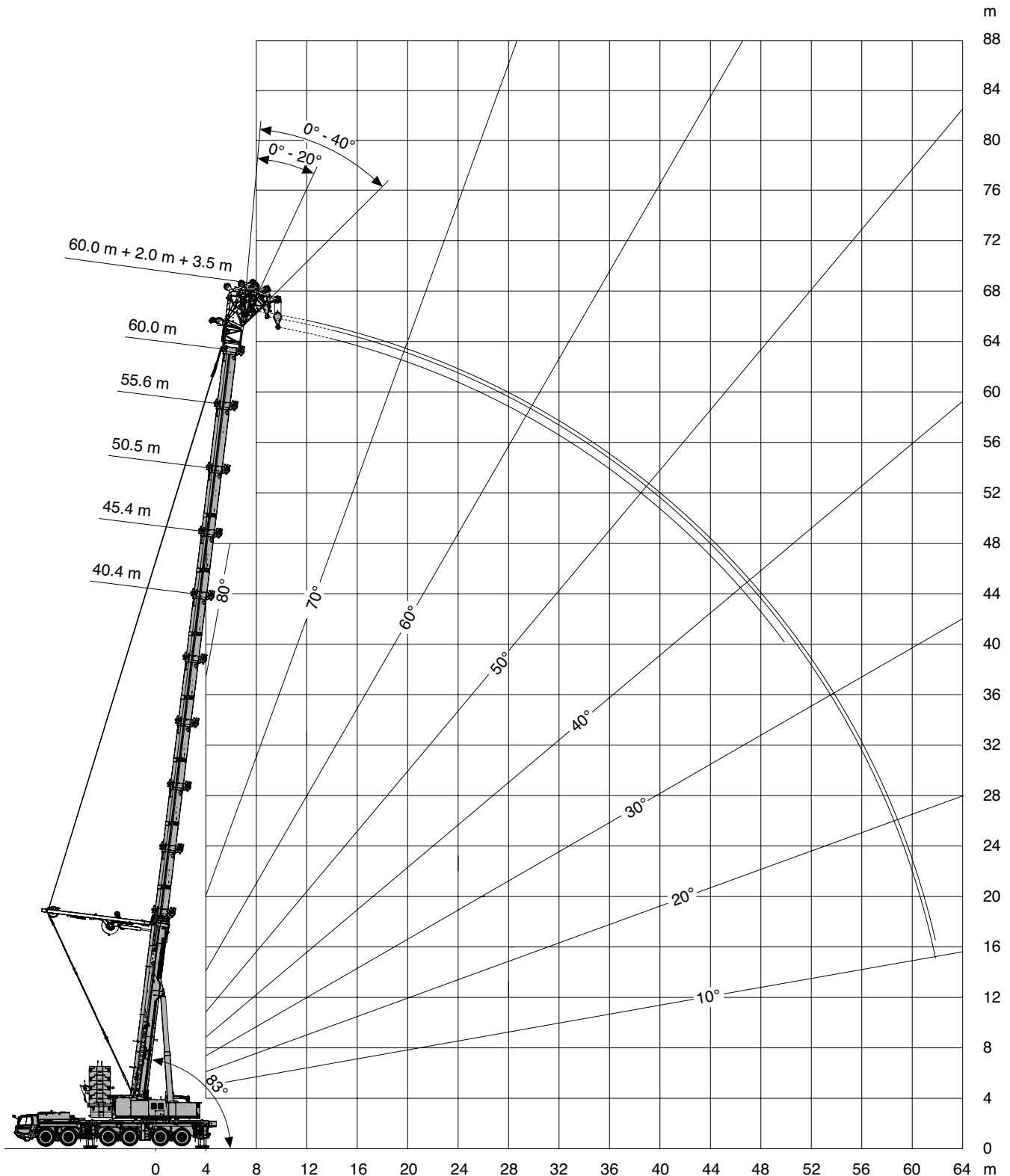
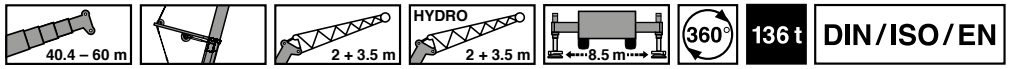


m	40.4 m + 2.0 m + 3.5 m			45.4 m + 2.0 m + 3.5 m			50.5 m + 2.0 m + 3.5 m			55.6 m + 2.0 m + 3.5 m			60.0 m + 2.0 m + 3.5 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
8.0	48.2															
9.0	45.4	42.9		38.4												
10.0	42.9	40.7	39.3	36.5	34.3		28.7									
11.0	40.7	38.8	37.5	34.8	32.8	31.4	27.3	25.7			24.1					
12.0	38.7	37.0	35.8	33.2	31.4	30.2	26.0	24.6	23.7		23.0	21.7		21.8		
14.0	35.3	33.9	33.0	30.6	29.1	28.1	23.8	22.7	21.9		21.0	20.2	19.4	19.9	19.1	18.4
16.0	32.5	31.3	30.6	28.4	27.1	26.3	22.0	21.1	20.5		19.4	18.7	18.2	18.4	17.7	17.3
18.0	30.2	29.2	28.6	26.3	25.4	24.7	20.5	19.7	19.2		18.0	17.4	17.0	17.0	16.5	16.1
20.0	28.1	27.3	26.8	24.5	23.9	23.3	19.2	18.5	18.0		16.8	16.3	15.9	15.9	15.4	15.1
22.0	26.4	25.7	25.3	22.9	22.3	22.0	18.0	17.4	17.1		15.7	15.3	15.0	14.9	14.5	14.2
24.0	24.9	24.2	23.9	21.5	21.0	20.8	17.0	16.5	16.2		14.8	14.4	14.2	14.0	13.6	13.4
26.0	23.5	23.0	22.7	20.3	19.9	19.7	16.2	15.7	15.4		14.0	13.6	13.4	13.2	12.9	12.7
28.0	22.1	21.9	21.7	19.2	18.8	18.7	15.4	14.9	14.7		13.3	13.0	12.8	12.5	12.2	12.1
30.0	20.7	20.7	20.7	18.2	17.9	17.8	14.7	14.3	14.1		12.6	12.3	12.2	11.9	11.7	11.5
32.0	19.4	19.5	19.4	17.3	17.1	17.0	14.0	13.7	13.5		12.0	11.8	11.6	11.3	11.1	11.0
34.0	17.3	17.5	17.5	16.6	16.3	16.2	13.5	13.2	13.0		11.5	11.3	11.2	10.8	10.6	10.5
36.0	15.5	15.6	15.7	15.8	15.7	15.6	13.0	12.7	12.6		11.0	10.8	10.7	10.4	10.2	10.1
38.0	13.9	14.0		14.2	14.4	14.4	12.5	12.3	12.2		10.6	10.4	10.3	9.9	9.8	9.7
40.0	12.5	12.6		12.8	12.9	12.9	12.1	11.9	11.8		10.2	10.0	10.0	9.6	9.4	9.3
42.0	11.3	11.3		11.5	11.6		11.7	11.5	11.5		9.8	9.7	9.6	9.2	9.1	9.0
44.0	5.5			10.4	10.5		11.0	11.1	11.1		9.5	9.4	9.3	8.9	8.7	8.7
46.0				9.4	9.5		10.0	10.0			9.2	9.1	9.1	8.6	8.5	8.4
48.0				8.5			9.0	9.1			8.9	8.8	8.8	8.3	8.2	8.2
50.0							8.2	8.2			8.7	8.6		8.1	8.0	7.9
54.0							4.1				7.2	7.2		7.1	7.2	
58.0											5.9			5.9	5.9	
62.0														4.8	4.8	



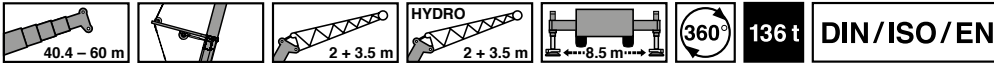
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

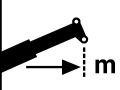
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона

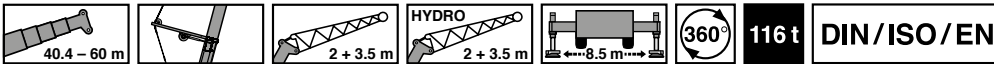





Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность



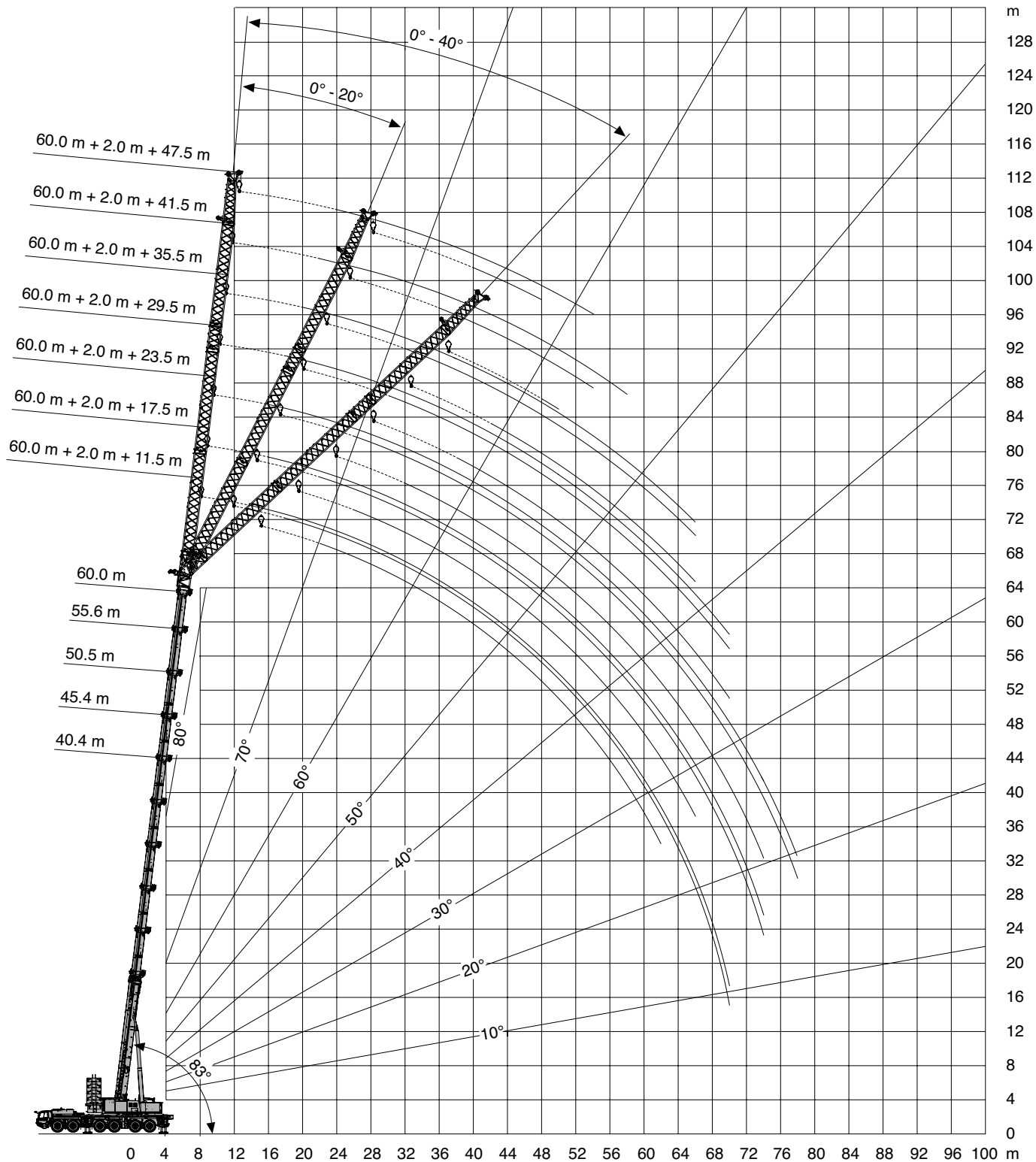
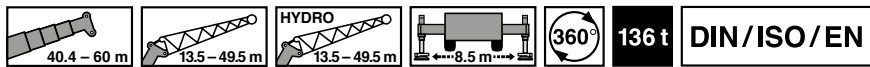
 m	40.4 m + 2.0 m + 3.5 m			45.4 m + 2.0 m + 3.5 m			50.5 m + 2.0 m + 3.5 m			55.6 m + 2.0 m + 3.5 m			60.0 m + 2.0 m + 3.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
8.0	58.6														
9.0	58.6	58.6		58.6											
10.0	58.6	58.6	58.6	58.1	57.6		41.0								
11.0	58.6	58.6	58.6	57.6	57.1	57.6	41.0	41.0		33.0					
12.0	58.6	58.6	58.6	57.1	56.6	57.1	41.0	41.0	40.8	32.0	29.0		26.2		
14.0	58.6	58.6	56.3	56.0	55.7	56.1	40.8	41.0	40.8	31.0	29.0	29.0	24.8	24.9	25.0
16.0	58.6	55.8	53.7	54.7	54.3	52.8	40.2	40.3	40.4	29.7	29.0	29.0	24.8	24.9	25.0
18.0	54.0	52.5	51.1	52.3	50.7	49.6	38.5	39.0	39.4	29.4	29.0	29.0	24.8	24.9	24.9
20.0	48.3	46.8	45.8	47.1	45.4	44.2	37.0	37.7	37.7	29.2	28.7	28.9	23.9	24.3	24.7
22.0	43.2	41.9	41.4	42.1	40.7	39.9	35.9	37.1	37.2	28.0	27.9	28.5	23.1	23.4	24.4
24.0	38.9	38.0	37.6	37.9	36.8	36.4	35.5	34.9	34.7	26.9	26.8	27.3	22.2	22.5	23.7
26.0	35.4	34.7	34.3	34.5	33.7	33.2	33.1	32.4	31.6	26.0	25.8	26.3	22.0	22.0	22.8
28.0	32.3	31.8	31.5	31.5	30.8	30.4	30.4	29.6	29.1	25.5	25.2	25.5	21.7	22.0	21.9
30.0	29.7	29.2	29.1	28.8	28.3	28.1	27.9	27.3	26.9	24.4	24.9	25.2	20.8	21.3	21.1
32.0	27.4	27.0	23.8	26.6	26.3	26.1	25.8	25.2	24.9	23.9	23.8	24.1	20.0	20.4	20.4
34.0	24.7	25.0	22.3	24.7	24.4	24.2	23.9	23.4	23.1	23.1	22.8	22.8	19.4	19.7	19.8
36.0	22.0	22.3	20.9	23.0	22.6	19.6	22.3	21.8	21.5	22.3	21.5	21.4	18.9	19.0	19.2
38.0	19.2	19.5		21.1	21.1	18.4	20.7	20.3	20.2	20.7	20.2	19.9	18.2	18.4	18.6
40.0	16.1	16.4		18.9	19.2	17.3	19.3	19.0	16.8	19.3	18.9	18.7	17.6	17.9	18.0
42.0	12.2	12.4		16.7	17.0		18.1	17.8	15.8	18.1	17.7	17.4	17.1	17.2	17.3
44.0	3.8			14.3	14.6		16.8	16.7	14.9	16.9	16.6	13.1	16.5	16.5	16.3
46.0				11.5	11.7		14.9	15.2		15.9	15.6	12.8	15.7	15.6	9.1
48.0				7.4			13.0	13.2		14.9	14.7	12.6	14.9	14.7	8.6
50.0							10.7	11.0		13.5	13.7		13.8	13.8	8.1
54.0							2.5			10.0	10.2		11.7	11.8	
58.0										4.9			8.7	6.2	
62.0													4.4	4.4	



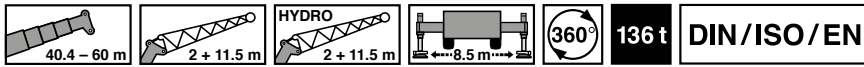
 m	40.4 m + 2.0 m + 3.5 m			45.4 m + 2.0 m + 3.5 m			50.5 m + 2.0 m + 3.5 m			55.6 m + 2.0 m + 3.5 m			60.0 m + 2.0 m + 3.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
8.0	58.6														
9.0	58.6	58.6		58.6											
10.0	58.6	58.6	58.6	58.1	57.6		41.0								
11.0	58.6	58.6	58.6	57.6	57.1	57.6	41.0	41.0		33.0					
12.0	58.6	58.6	58.6	57.1	56.6	57.1	41.0	41.0	40.8	32.0	29.0		26.2		
14.0	58.6	58.6	56.3	56.0	55.7	56.1	40.8	41.0	40.8	31.0	29.0	29.0	24.8	24.9	25.0
16.0	58.6	55.8	53.7	54.7	54.3	52.8	40.2	40.3	40.4	29.7	29.0	29.0	24.8	24.9	25.0
18.0	54.0	52.5	51.1	52.3	50.7	49.6	38.5	39.0	39.4	29.4	29.0	29.0	24.8	24.9	24.9
20.0	48.3	46.8	45.8	47.1	45.4	44.2	37.0	37.7	37.7	29.2	28.7	28.9	23.9	24.3	24.7
22.0	43.2	41.9	41.4	42.1	40.7	39.9	35.9	37.1	37.2	28.0	27.9	28.5	23.1	23.4	24.4
24.0	37.8	38.0	37.6	37.9	36.8	36.4	35.5	34.9	34.7	26.9	26.8	27.3	22.2	22.5	23.7
26.0	33.4	33.8	34.0	33.8	33.7	33.2	33.1	32.4	31.6	26.0	25.8	26.3	22.0	22.0	22.8
28.0	29.6	29.9	30.1	30.1	30.5	30.4	30.4	29.6	29.1	25.5	25.2	25.5	21.7	22.0	21.9
30.0	26.2	26.6	26.7	26.7	27.1	27.3	27.5	27.3	26.9	24.4	24.9	25.2	20.8	21.3	21.1
32.0	23.4	23.7	23.8	23.9	24.2	24.3	24.7	25.0	24.9	23.9	23.8	24.1	20.0	20.4	20.4
34.0	20.9	21.1	21.2	21.4	21.7	21.8	22.2	22.4	22.6	22.8	22.8	22.8	19.4	19.7	19.8
36.0	18.7	18.9	18.9	19.2	19.5	19.5	20.0	20.2	20.4	20.7	20.9	21.1	18.9	19.0	19.2
38.0	16.8	17.0		17.3	17.5	17.6	18.1	18.3	18.4	18.7	19.0	19.1	18.2	18.4	18.6
40.0	15.1	15.2		15.6	15.8	15.8	16.4	16.5	16.6	17.0	17.2	17.3	17.1	17.4	17.5
42.0	12.2	12.4		14.1	14.2		14.8	15.0	15.0	15.5	15.7	15.7	15.6	15.8	15.9
44.0	3.8			12.7	12.8		13.5	13.6	13.6	14.1	14.2	13.1	14.2	14.4	14.5
46.0				11.5	11.5		12.2	12.3		12.8	13.0	12.8	12.9	13.1	9.1
48.0				7.4			11.1	11.2		11.7	11.8	11.8	11.8	11.9	8.6
50.0							10.0	10.1		10.7	10.8		10.8	10.9	8.1
54.0							2.5			8.8	8.9		8.9	9.0	
58.0										4.9			7.3	6.2	
62.0													4.4	4.4	

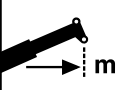
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

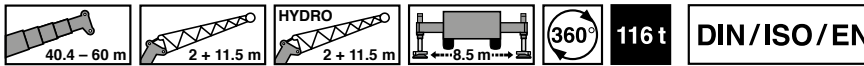
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона




Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность

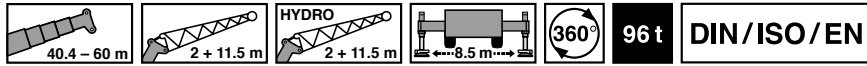


 m	40.4 m + 2.0 m + 11.5 m			45.4 m + 2.0 m + 11.5 m			50.5 m + 2.0 m + 11.5 m			55.6 m + 2.0 m + 11.5 m			60.0 m + 2.0 m + 11.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	47.4														
10.0	47.4			42.1											
11.0	47.4			42.1			33.1								
12.0	47.4			42.1			33.1			26.3					
14.0	43.1	37.3		39.0	32.2		31.0			26.3			22.8		
16.0	38.8	34.1	29.8	35.4	29.7		28.1	23.7		25.4	21.7		22.8		
18.0	35.3	31.3	28.8	32.2	27.6	24.8	25.7	21.9	19.4	23.1	20.2		22.3	19.2	
20.0	32.3	29.0	27.0	29.5	25.7	23.3	23.6	20.4	18.5	21.2	18.7	16.7	20.5	17.9	
22.0	29.8	27.0	25.2	27.1	24.1	22.0	21.8	19.1	17.4	19.6	17.5	15.9	18.7	16.6	14.3
24.0	27.6	25.2	23.7	25.1	22.7	20.8	20.3	17.9	16.4	18.2	16.3	15.2	17.0	15.2	13.5
26.0	25.7	23.6	22.4	23.3	21.4	19.8	18.9	16.8	15.6	16.9	15.3	14.4	15.5	14.1	12.8
28.0	24.0	22.2	21.1	21.7	20.3	18.9	17.7	15.9	14.8	15.8	14.4	13.6	14.3	13.0	12.1
30.0	22.5	21.0	20.0	20.3	19.2	18.0	16.6	15.0	14.1	14.9	13.6	12.9	13.1	12.1	11.5
32.0	21.2	19.8	19.1	19.1	18.1	17.2	15.7	14.2	13.4	14.0	12.9	12.2	12.1	11.2	10.8
34.0	20.0	18.8	18.2	18.0	17.1	16.5	14.8	13.5	12.8	13.2	12.2	11.6	11.2	10.5	10.1
36.0	18.9	17.9	17.3	17.0	16.2	15.8	14.0	12.9	12.3	12.5	11.6	11.1	10.4	9.8	9.5
38.0	17.7	17.1	16.6	16.1	15.4	15.0	13.3	12.3	11.8	11.8	11.0	10.6	9.7	9.2	8.9
40.0	16.6	16.3	15.9	15.2	14.6	14.3	12.7	11.8	11.3	11.2	10.5	10.1	9.0	8.6	8.4
42.0	15.5	15.6	15.3	14.5	14.0	13.7	12.1	11.3	10.9	10.7	10.0	9.7	8.4	8.1	7.9
44.0	14.4	14.7	14.8	13.8	13.3	13.1	11.5	10.8	10.5	10.1	9.6	9.3	7.9	7.6	7.4
46.0	13.4	13.7		13.0	12.8	12.6	11.0	10.4	10.1	9.7	9.2	8.9	7.4	7.1	7.0
48.0	12.6	12.7		12.1	12.2	12.1	10.6	10.0	9.7	9.3	8.8	8.6	6.9	6.7	6.6
50.0	9.7	11.1		11.3	11.5		10.2	9.7	9.4	8.9	8.5	8.3	6.5	6.3	6.3
54.0				9.3	10.0		9.4	9.0		8.2	7.8	7.7	5.7	5.6	5.6
58.0							8.5	8.5		7.5	7.3	7.2	5.1	5.0	5.1
62.0							2.0			7.0	6.8		4.5	4.5	4.6
66.0										4.0	5.0		4.0	4.0	
70.0													3.5	3.6	

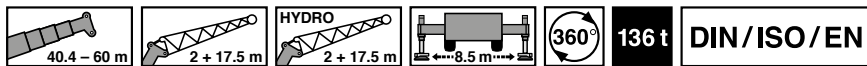


 m	40.4 m + 2.0 m + 11.5 m			45.4 m + 2.0 m + 11.5 m			50.5 m + 2.0 m + 11.5 m			55.6 m + 2.0 m + 11.5 m			60.0 m + 2.0 m + 11.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	47.4														
10.0	47.4			42.1											
11.0	47.4			42.1			33.1								
12.0	47.4			42.1			33.1			26.3					
14.0	43.1	37.3		39.0	32.2		31.0			26.3			22.8		
16.0	38.8	34.1	29.8	35.4	29.7		28.1	23.7		25.4	21.7		22.8		
18.0	35.3	31.3	28.8	32.2	27.6	24.8	25.7	21.9	19.4	23.1	20.2		22.3	19.2	
20.0	32.3	29.0	27.0	29.5	25.7	23.3	23.6	20.4	18.5	21.2	18.7	16.7	20.5	17.9	
22.0	29.8	27.0	25.2	27.1	24.1	22.0	21.8	19.1	17.4	19.6	17.5	15.9	18.7	16.6	14.3
24.0	27.6	25.2	23.7	25.1	22.7	20.8	20.3	17.9	16.4	18.2	16.3	15.2	17.0	15.2	13.5
26.0	25.7	23.6	22.4	23.3	21.4	19.8	18.9	16.8	15.6	16.9	15.3	14.4	15.5	14.1	12.8
28.0	24.0	22.2	21.1	21.7	20.3	18.9	17.7	15.9	14.8	15.8	14.4	13.6	14.3	13.0	12.1
30.0	22.5	21.0	20.0	20.3	19.2	18.0	16.6	15.0	14.1	14.9	13.6	12.9	13.1	12.1	11.5
32.0	21.2	19.8	19.1	19.1	18.1	17.2	15.7	14.2	13.4	14.0	12.9	12.2	12.1	11.2	10.8
34.0	20.0	18.8	18.2	18.0	17.1	16.5	14.8	13.5	12.8	13.2	12.2	11.6	11.2	10.5	10.1
36.0	18.9	17.9	17.3	17.0	16.2	15.8	14.0	12.9	12.3	12.5	11.6	11.1	10.4	9.8	9.5
38.0	17.7	17.1	16.6	16.1	15.4	15.0	13.3	12.3	11.8	11.8	11.0	10.6	9.7	9.2	8.9
40.0	16.6	16.3	15.9	15.2	14.6	14.3	12.7	11.8	11.3	11.2	10.5	10.1	9.0	8.6	8.4
42.0	15.4	15.6	15.3	14.5	14.0	13.7	12.1	11.3	10.9	10.7	10.0	9.7	8.4	8.1	7.9
44.0	14.1	14.6	14.8	13.8	13.3	13.1	11.5	10.8	10.5	10.1	9.6	9.3	7.9	7.6	7.4
46.0	12.9	13.3		13.0	12.8	12.6	11.0	10.4	10.1	9.7	9.2	8.9	7.4	7.1	7.0
48.0	11.9	12.2		12.0	12.2	12.1	10.6	10.0	9.7	9.3	8.8	8.6	6.9	6.7	6.6
50.0	9.7	11.1		11.0	11.4		10.2	9.7	9.4	8.9	8.5	8.3	6.5	6.3	6.3
54.0				9.3	9.5		9.4	9.0		8.2	7.8	7.7	5.7	5.6	5.6
58.0							8.2	8.4		7.5	7.3	7.2	5.1	5.0	5.1
62.0							2.0			7.0	6.8		4.5	4.5	4.6
66.0										4.0	5.0		4.0	4.0	
70.0													3.5	3.6	

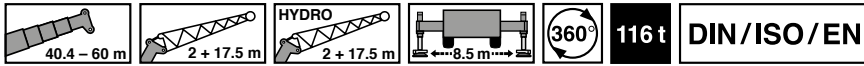
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



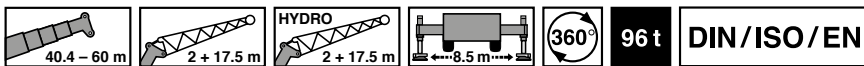
m	40.4 m + 2.0 m + 11.5 m			45.4 m + 2.0 m + 11.5 m			50.5 m + 2.0 m + 11.5 m			55.6 m + 2.0 m + 11.5 m			60.0 m + 2.0 m + 11.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	41.7														
10.0	39.2			33.2											
11.0	37.1			31.5			24.8								
12.0	35.1			29.9			23.5			20.8					
14.0	31.9	27.6		27.3	23.7		21.4			19.0			18.0		
16.0	29.1	26.1	22.7	25.1	22.1		19.6	16.9		17.6	15.0		16.6		
18.0	26.9	24.5	21.8	23.3	20.6	19.0	18.1	16.0	14.1	16.2	14.1		15.3	13.4	
20.0	24.9	22.9	21.0	21.7	19.4	17.9	16.9	15.2	13.5	15.0	13.3	12.1	14.2	12.6	
22.0	23.3	21.5	20.3	20.3	18.3	17.0	15.8	14.3	13.0	14.0	12.6	11.5	13.2	12.0	11.0
24.0	21.8	20.2	19.2	19.1	17.3	16.2	14.8	13.5	12.5	13.1	12.0	11.0	12.4	11.4	10.5
26.0	20.5	19.1	18.3	18.1	16.5	15.5	13.9	12.8	12.0	12.4	11.4	10.6	11.6	10.8	10.0
28.0	19.4	18.1	17.4	17.1	15.7	14.8	13.2	12.1	11.5	11.7	10.9	10.1	11.0	10.3	9.6
30.0	18.4	17.3	16.6	16.2	15.0	14.2	12.5	11.6	11.0	11.0	10.3	9.8	10.4	9.7	9.3
32.0	17.4	16.5	15.9	15.4	14.4	13.7	11.9	11.0	10.5	10.5	9.8	9.4	9.8	9.3	8.9
34.0	16.6	15.8	15.3	14.6	13.8	13.2	11.3	10.6	10.1	9.9	9.4	9.0	9.4	8.8	8.5
36.0	15.9	15.1	14.7	13.9	13.3	12.7	10.8	10.1	9.7	9.5	9.0	8.6	8.9	8.4	8.2
38.0	14.7	14.5	14.1	13.3	12.8	12.3	10.4	9.7	9.4	9.0	8.6	8.3	8.5	8.1	7.8
40.0	13.3	13.9	13.7	12.7	12.3	12.0	10.0	9.4	9.0	8.7	8.2	8.0	8.1	7.7	7.5
42.0	12.0	12.5	12.8	12.2	11.8	11.6	9.6	9.0	8.7	8.3	7.9	7.7	7.8	7.4	7.2
44.0	10.9	11.3	11.5	11.0	11.4	11.2	9.2	8.7	8.5	8.0	7.6	7.4	7.5	7.1	7.0
46.0	9.9	10.2		10.0	10.5	10.7	8.9	8.4	8.2	7.7	7.3	7.1	7.2	6.9	6.7
48.0	8.9	9.2		9.1	9.5	9.6	8.6	8.2	8.0	7.4	7.1	6.9	6.9	6.6	6.5
50.0	8.1	8.3		8.2	8.6		8.4	8.0	7.8	7.1	6.8	6.7	6.5	6.3	6.3
54.0				6.7	6.9		7.0	7.3		6.7	6.4	6.3	5.7	5.6	5.6
58.0							5.8	6.0		6.1	6.1	6.0	5.1	5.0	5.1
62.0							2.0			5.0	5.2		4.5	4.5	4.6
66.0										4.0	4.1		3.9	4.0	
70.0													3.1	3.1	



m	40.4 m + 2.0 m + 17.5 m			45.4 m + 2.0 m + 17.5 m			50.5 m + 2.0 m + 17.5 m			55.6 m + 2.0 m + 17.5 m			60.0 m + 2.0 m + 17.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10.0	39.7														
11.0	39.7			31.9											
12.0	39.7			31.9			25.4								
14.0	37.2			31.9			25.4			20.5					
16.0	34.5	24.2		31.1			25.2			20.5			17.9		
18.0	32.1	23.0		28.5	22.6		23.0	18.3		20.5			17.9		
20.0	29.4	21.9		26.2	21.6		21.1	17.3		19.1	15.5		17.9		
22.0	27.1	21.0	17.3	24.3	20.4		19.5	16.4		17.6	14.6		16.6	13.1	
24.0	25.1	20.1	16.8	22.6	19.2	16.6	18.1	15.4	13.1	16.3	13.9		15.1	12.2	
26.0	23.3	19.4	16.3	21.1	18.2	16.1	16.8	14.5	12.6	15.2	13.1	11.5	13.7	11.5	9.7
28.0	21.8	18.6	15.9	19.8	17.2	15.7	15.8	13.7	12.2	14.2	12.5	11.0	12.6	10.8	9.2
30.0	20.4	18.0	15.5	18.7	16.3	15.0	14.8	13.0	11.8	13.3	11.9	10.6	11.5	10.1	8.8
32.0	19.2	17.4	15.1	17.5	15.5	14.3	13.9	12.3	11.4	12.5	11.2	10.2	10.6	9.6	8.4
34.0	18.1	16.7	14.8	16.5	14.8	13.7	13.1	11.7	10.8	11.8	10.6	9.8	9.8	9.0	8.0
36.0	17.1	15.9	14.5	15.5	14.1	13.2	12.4	11.1	10.4	11.1	10.1	9.4	9.1	8.4	7.6
38.0	16.2	15.1	14.2	14.7	13.5	12.7	11.8	10.6	9.9	10.5	9.6	9.1	8.4	7.8	7.3
40.0	15.4	14.4	13.9	13.9	12.9	12.2	11.2	10.1	9.5	10.0	9.2	8.7	7.8	7.3	7.0
42.0	14.7	13.8	13.4	13.2	12.4	11.8	10.6	9.7	9.2	9.4	8.7	8.3	7.3	6.9	6.7
44.0	14.0	13.2	12.8	12.6	11.9	11.4	10.1	9.3	8.8	9.0	8.3	8.0	6.7	6.4	6.3
46.0	13.3	12.7	12.4	12.0	11.5	11.0	9.7	8.9	8.5	8.6	8.0	7.7	6.3	6.0	5.9
48.0	12.4	12.2	11.9	11.4	11.0	10.6	9.3	8.6	8.2	8.2	7.6	7.4	5.9	5.6	5.6
50.0	11.6	11.8	11.6	10.9	10.5	10.3	8.9	8.2	7.9	7.8	7.3	7.1	5.5	5.3	5.3
54.0	10.1	10.4		9.6	9.7	9.6	8.2	7.7	7.4	7.1	6.7	6.6	4.8	4.7	4.7
58.0				8.4	8.7		7.6	7.2	7.0	6.4	6.1	6.0	4.2	4.1	4.2
62.0				4.4	6.0		7.1	6.7		5.8	5.6	5.5	3.6	3.6	3.7
66.0							5.0	6.3		5.2	5.1		3.2	3.2	3.3
70.0										4.8	4.7		2.8	2.8	
74.0													2.5	2.5	

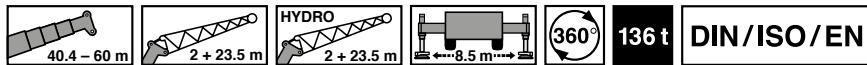


m	40.4 m + 2.0 m + 17.5 m			45.4 m + 2.0 m + 17.5 m			50.5 m + 2.0 m + 17.5 m			55.6 m + 2.0 m + 17.5 m			60.0 m + 2.0 m + 17.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10.0	39.7														
11.0	39.7			31.9											
12.0	39.7			31.9			25.4								
14.0	37.2			31.9			25.4			20.5					
16.0	34.5	24.2		31.1			25.2			20.5			17.9		
18.0	32.1	23.0		28.5	22.6		23.0	18.3		20.5			17.9		
20.0	29.4	21.9		26.2	21.6		21.1	17.3		19.1	15.5		17.9		
22.0	27.1	21.0	17.3	24.3	20.4		19.5	16.4		17.6	14.6		16.6	13.1	
24.0	25.1	20.1	16.8	22.6	19.2	16.6	18.1	15.4	13.1	16.3	13.9		15.1	12.2	
26.0	23.3	19.4	16.3	21.1	18.2	16.1	16.8	14.5	12.6	15.2	13.1	11.5	13.7	11.5	9.7
28.0	21.8	18.6	15.9	19.8	17.2	15.7	15.8	13.7	12.2	14.2	12.5	11.0	12.6	10.8	9.2
30.0	20.4	18.0	15.5	18.7	16.3	15.0	14.8	13.0	11.8	13.3	11.9	10.6	11.5	10.1	8.8
32.0	19.2	17.4	15.1	17.5	15.5	14.3	13.9	12.3	11.4	12.5	11.2	10.2	10.6	9.6	8.4
34.0	18.1	16.7	14.8	16.5	14.8	13.7	13.1	11.7	10.8	11.8	10.6	9.8	9.8	9.0	8.0
36.0	17.1	15.9	14.5	15.5	14.1	13.2	12.4	11.1	10.4	11.1	10.1	9.4	9.1	8.4	7.6
38.0	16.2	15.1	14.2	14.7	13.5	12.7	11.8	10.6	9.9	10.5	9.6	9.1	8.4	7.8	7.3
40.0	15.4	14.4	13.9	13.9	12.9	12.2	11.2	10.1	9.5	10.0	9.2	8.7	7.8	7.3	7.0
42.0	14.7	13.8	13.4	13.2	12.4	11.8	10.6	9.7	9.2	9.4	8.7	8.3	7.3	6.9	6.7
44.0	14.0	13.2	12.8	12.6	11.9	11.4	10.1	9.3	8.8	9.0	8.3	8.0	6.7	6.4	6.3
46.0	13.3	12.7	12.4	12.0	11.5	11.0	9.7	8.9	8.5	8.6	8.0	7.7	6.3	6.0	5.9
48.0	12.3	12.2	11.9	11.4	11.0	10.6	9.3	8.6	8.2	8.2	7.6	7.4	5.9	5.6	5.6
50.0	11.3	11.8	11.6	10.9	10.5	10.3	8.9	8.2	7.9	7.8	7.3	7.1	5.5	5.3	5.3
54.0	9.6	9.9		9.6	9.7	9.6	8.2	7.7	7.4	7.1	6.7	6.6	4.8	4.7	4.7
58.0				8.1	8.4		7.6	7.2	7.0	6.4	6.1	6.0	4.2	4.1	4.2
62.0				4.4	6.0		7.1	6.7		5.8	5.6	5.5	3.6	3.6	3.7
66.0							5.0	6.2		5.2	5.1		3.2	3.2	3.3
70.0										4.8	4.7		2.8	2.8	
74.0													2.5	2.5	

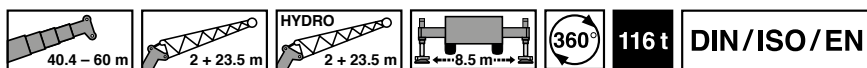


m	40.4 m + 2.0 m + 17.5 m			45.4 m + 2.0 m + 17.5 m			50.5 m + 2.0 m + 17.5 m			55.6 m + 2.0 m + 17.5 m			60.0 m + 2.0 m + 17.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10.0	32.8														
11.0	31.5			28.7											
12.0	30.3			27.3			21.5								
14.0	28.1			24.8			19.7			17.1					
16.0	26.3	20.6		22.8			18.1			15.8			14.9		
18.0	24.7	19.5		21.1	18.0		16.7	13.5		14.6			13.8		
20.0	23.0	18.6		19.6	17.0		15.5	12.8		13.6	11.4		12.9		
22.0	21.4	17.8	15.4	18.3	16.0		14.4	12.2		12.7	10.8		12.1	10.3	
24.0	20.1	17.1	14.9	17.2	15.1	13.8	13.5	11.6	10.2	12.0	10.2		11.3	9.7	
26.0	18.8	16.4	14.5	16.2	14.3	13.2	12.7	11.1	9.8	11.2	9.7	8.7	10.6	9.3	8.4
28.0	17.8	15.8	14.0	15.3	13.6	12.6	11.9	10.6	9.4	10.6	9.3	8.4	10.0	8.8	8.0
30.0	16.8	15.3	13.6	14.5	13.0	12.1	11.3	10.2	9.1	10.0	8.9	8.1	9.4	8.4	7.7
32.0	15.9	14.8	13.3	13.8	12.4	11.6	10.7	9.7	8.8	9.4	8.5	7.8	8.9	8.1	7.4
34.0	15.1	14.1	13.0	13.1	11.9	11.2	10.2	9.3	8.5	8.9	8.1	7.5	8.4	7.7	7.1
36.0	14.4	13.5	12.7	12.6	11.4	10.8	9.7	8.9	8.3	8.5	7.8	7.2	8.0	7.4	6.9
38.0	13.8	12.9	12.4	12.0	11.0	10.4	9.2	8.5	8.0	8.1	7.5	7.0	7.6	7.1	6.6
40.0	13.2	12.4	12.0	11.5	10.6	10.0	8.8	8.1	7.7	7.7	7.2	6.8	7.3	6.8	6.4
42.0	12.5	11.9	11.5	11.1	10.2	9.7	8.5	7.8	7.5	7.4	6.9	6.5	6.9	6.5	6.2
44.0	11.3	11.5	11.2	10.6	9.9	9.4	8.1	7.5	7.2	7.0	6.6	6.4	6.6	6.2	6.0
46.0	10.3	11.0	10.8	10.2	9.6	9.2	7.8	7.3	7.0	6.7	6.4	6.1	6.3	6.0	5.8
48.0	9.3	10.0	10.3	9.3	9.3	8.9	7.5	7.0	6.8	6.5	6.1	5.9	5.9	5.6	5.6
50.0	8.5	9.0	9.3	8.5	9.0	8.7	7.3	6.8	6.6	6.2	5.9	5.7	5.5	5.3	5.3
54.0	7.0	7.3		7.0	7.5	7.7	6.8	6.4	6.2	5.8	5.5	5.3	4.8	4.7	4.7
58.0				5.7	6.0		6.0	6.0	5.9	5.3	5.1	5.0	4.2	4.1	4.2
62.0				4.4	4.8		4.9	5.2		4.8	4.7	4.6	3.6	3.6	3.7
66.0							3.9	4.1		4.1	4.3		3.2	3.2	3.3
70.0										3.3	3.4		2.8	2.8	
74.0													2.3	2.5	

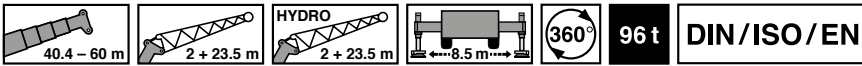
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



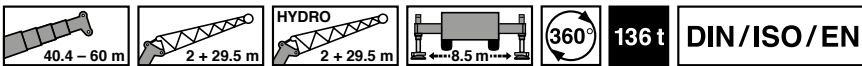
m	40.4 m + 2.0 m + 23.5 m			45.4 m + 2.0 m + 23.5 m			50.5 m + 2.0 m + 23.5 m			55.6 m + 2.0 m + 23.5 m			60.0 m + 2.0 m + 23.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.0	30.9														
12.0	29.6														
14.0	27.2			26.5			21.1								
16.0	25.1			24.6			21.1			16.9			14.8		
18.0	23.3			23.0			20.7			16.9			14.8		
20.0	21.7	15.3		21.5			19.0			16.9			14.8		
22.0	20.4	14.6		20.2	14.4		17.5	13.6		16.0			14.8		
24.0	19.1	13.9		19.1	13.8		16.3	12.9		14.9	11.7		13.6		
26.0	18.0	13.3	10.9	18.1	13.2		15.1	12.3		13.8	11.1		12.4	9.3	
28.0	17.1	12.8	10.6	17.2	12.7	10.5	14.1	11.7		12.9	10.6		11.3	8.7	
30.0	16.2	12.3	10.3	16.3	12.3	10.2	13.3	11.2	9.5	12.1	10.1	8.7	10.3	8.2	
32.0	15.4	11.9	10.0	15.6	11.8	9.9	12.5	10.7	9.1	11.3	9.6	8.4	9.5	7.7	6.5
34.0	14.7	11.4	9.8	14.9	11.4	9.7	11.7	10.2	8.8	10.6	9.2	8.1	8.7	7.3	6.2
36.0	14.0	11.1	9.5	14.2	11.1	9.5	11.1	9.7	8.5	10.0	8.8	7.8	8.0	6.8	5.9
38.0	13.4	10.7	9.3	13.4	10.7	9.3	10.5	9.3	8.3	9.5	8.4	7.5	7.4	6.5	5.7
40.0	12.9	10.4	9.1	12.8	10.4	9.1	9.9	8.9	8.0	9.0	8.1	7.2	6.8	6.1	5.4
42.0	12.4	10.1	8.9	12.2	10.1	8.9	9.4	8.5	7.8	8.5	7.7	7.0	6.3	5.8	5.1
44.0	11.9	9.8	8.8	11.6	9.8	8.7	9.0	8.1	7.6	8.1	7.4	6.7	5.8	5.5	4.9
46.0	11.5	9.6	8.7	11.1	9.6	8.6	8.6	7.7	7.3	7.7	7.0	6.5	5.4	5.1	4.7
48.0	11.1	9.3	8.5	10.6	9.4	8.5	8.2	7.4	7.0	7.3	6.7	6.3	5.0	4.8	4.5
50.0	10.8	9.1	8.4	10.1	9.2	8.3	7.8	7.1	6.8	6.9	6.4	6.1	4.6	4.4	4.3
54.0	10.0	8.8	8.3	9.3	8.7	8.2	7.2	6.6	6.3	6.1	5.7	5.5	4.0	3.9	3.9
58.0	8.7	8.6	8.3	8.3	8.1	7.8	6.5	6.1	5.9	5.4	5.1	5.0	3.4	3.4	3.4
62.0	5.9	7.9		7.2	7.4	7.4	5.9	5.5	5.4	4.8	4.6	4.5	2.9	2.9	3.0
66.0				5.7	6.5		5.3	5.1	5.0	4.2	4.1	4.0	2.5	2.5	2.6
70.0							4.9	4.7		3.8	3.7	3.7	2.1	2.1	2.3
74.0										3.4	3.3		1.8	1.8	1.9
78.0										1.8	3.0		1.5	1.6	



m	40.4 m + 2.0 m + 23.5 m			45.4 m + 2.0 m + 23.5 m			50.5 m + 2.0 m + 23.5 m			55.6 m + 2.0 m + 23.5 m			60.0 m + 2.0 m + 23.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.0	30.9														
12.0	29.6														
14.0	27.2			26.5			21.1								
16.0	25.1			24.6			21.1			16.9			14.8		
18.0	23.3			23.0			20.7			16.9			14.8		
20.0	21.7	15.3		21.5			19.0			16.9			14.8		
22.0	20.4	14.6		20.2	14.4		17.5	13.6		16.0			14.8		
24.0	19.1	13.9		19.1	13.8		16.3	12.9		14.9	11.7		13.6		
26.0	18.0	13.3	10.9	18.1	13.2		15.1	12.3		13.8	11.1		12.4	9.3	
28.0	17.1	12.8	10.6	17.2	12.7	10.5	14.1	11.7		12.9	10.6		11.3	8.7	
30.0	16.2	12.3	10.3	16.3	12.3	10.2	13.3	11.2	9.5	12.1	10.1	8.7	10.3	8.2	
32.0	15.4	11.9	10.0	15.6	11.8	9.9	12.5	10.7	9.1	11.3	9.6	8.4	9.5	7.7	6.5
34.0	14.7	11.4	9.8	14.9	11.4	9.7	11.7	10.2	8.8	10.6	9.2	8.1	8.7	7.3	6.2
36.0	14.0	11.1	9.5	14.2	11.1	9.5	11.1	9.7	8.5	10.0	8.8	7.8	8.0	6.8	5.9
38.0	13.4	10.7	9.3	13.4	10.7	9.3	10.5	9.3	8.3	9.5	8.4	7.5	7.4	6.5	5.7
40.0	12.9	10.4	9.1	12.8	10.4	9.1	9.9	8.9	8.0	9.0	8.1	7.2	6.8	6.1	5.4
42.0	12.4	10.1	8.9	12.2	10.1	8.9	9.4	8.5	7.8	8.5	7.7	7.0	6.3	5.8	5.1
44.0	11.9	9.8	8.8	11.6	9.8	8.7	9.0	8.1	7.6	8.1	7.4	6.7	5.8	5.5	4.9
46.0	11.5	9.6	8.7	11.1	9.6	8.6	8.6	7.7	7.3	7.7	7.0	6.5	5.4	5.1	4.7
48.0	11.1	9.3	8.5	10.6	9.4	8.5	8.2	7.4	7.0	7.3	6.7	6.3	5.0	4.8	4.5
50.0	10.8	9.1	8.4	10.1	9.2	8.3	7.8	7.1	6.8	6.9	6.4	6.1	4.6	4.4	4.3
54.0	9.9	8.8	8.3	9.3	8.7	8.2	7.2	6.6	6.3	6.1	5.7	5.5	4.0	3.9	3.9
58.0	8.4	8.6	8.3	8.3	8.1	7.8	6.5	6.1	5.9	5.4	5.1	5.0	3.4	3.4	3.4
62.0	5.9	7.4		7.1	7.4	7.4	5.9	5.5	5.4	4.8	4.6	4.5	2.9	2.9	3.0
66.0				5.7	6.2		5.3	5.1	5.0	4.2	4.1	4.0	2.5	2.5	2.6
70.0							4.9	4.7		3.8	3.7	3.7	2.1	2.1	2.3
74.0										3.4	3.3		1.8	1.8	1.9
78.0										1.8	3.0		1.5	1.6	

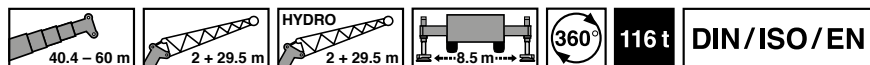


m	40.4 m + 2.0 m + 23.5 m			45.4 m + 2.0 m + 23.5 m			50.5 m + 2.0 m + 23.5 m			55.6 m + 2.0 m + 23.5 m			60.0 m + 2.0 m + 23.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.0	26.7														
12.0	25.7														
14.0	23.9														
16.0	22.2			22.1			17.8								
18.0	20.8			20.7			16.3			14.3			13.6		
20.0	19.6	15.3		19.4			15.1			13.2			12.6		
22.0	18.5	14.6		18.1			14.1			12.3			11.7		
24.0	17.5	13.9		16.9	13.8		13.2	10.4		11.5			10.9		
26.0	16.6	13.3	10.9	15.8	13.2		12.3	9.9		10.8	8.9		10.2		
28.0	15.8	12.8	10.6	14.8	12.6		11.5	9.5		10.1	8.4		9.6	8.1	
30.0	15.1	12.3	10.3	14.0	12.2	10.5	10.9	9.0		9.5	8.0		9.1	7.7	
32.0	14.5	11.9	10.0	13.2	11.6	10.2	10.2	8.7	7.6	9.0	7.6	6.8	8.6	7.3	
34.0	13.9	11.4	9.8	12.5	11.1	9.9	9.7	8.3	7.3	8.6	7.3	6.5	8.1	7.0	6.3
36.0	13.3	11.1	9.5	11.9	10.6	9.7	9.2	8.0	7.0	8.1	7.0	6.3	7.7	6.7	6.0
38.0	12.7	10.7	9.3	11.3	10.1	9.4	8.7	7.7	6.8	7.7	6.7	6.1	7.3	6.4	5.8
40.0	12.1	10.4	9.1	10.8	9.7	9.0	8.3	7.4	6.6	7.3	6.4	5.8	6.9	6.1	5.6
42.0	11.6	10.1	8.9	10.4	9.3	8.7	7.9	7.1	6.4	6.9	6.2	5.6	6.5	5.9	5.4
44.0	11.1	9.8	8.8	9.9	9.0	8.4	7.5	6.9	6.2	6.6	5.9	5.4	6.2	5.7	5.1
46.0	10.6	9.6	8.7	11.1	9.8	8.6	8.1	7.2	6.6	6.3	5.7	5.3	5.8	5.4	4.9
48.0	10.6	9.6	8.7	9.2	8.3	7.9	6.9	6.3	5.9	6.0	5.5	5.1	5.4	5.1	4.7
48.0	9.7	9.3	8.5	9.2	8.3	7.9	6.9	6.3	5.9	6.0	5.5	5.1	5.4	5.1	4.7
50.0	9.7	9.3	8.5	8.8	8.1	7.6	6.6	6.1	5.8	5.7	5.3	4.9	5.0	4.8	4.5
50.0	8.8	9.1	8.4	8.5	7.8	7.4	6.4	5.9	5.6	5.4	5.1	4.8	4.6	4.4	4.3
54.0	7.3	8.0	8.3	8.5	7.8	7.4	6.4	5.9	5.6	5.4	5.1	4.8	4.6	4.4	4.3
54.0	7.3	8.0	8.3	7.2	7.3	7.0	5.9	5.5	5.2	4.8	4.6	4.4	4.0	3.9	3.9
58.0	6.0	6.5	6.6	5.9	6.6	6.7	5.4	5.1	4.9	4.3	4.1	4.0	3.4	3.4	3.4
62.0	4.9	5.1		5.9	6.6	6.7	5.4	5.1	4.9	4.3	4.1	4.0	3.4	3.4	3.4
62.0	4.9	5.1		4.8	5.3	5.4	4.9	4.7	4.5	3.8	3.7	3.6	2.9	2.9	3.0
66.0				3.9	4.1		4.0	4.3	4.3	3.5	3.3	3.3	2.5	2.5	2.6
70.0							3.1	3.4		3.1	3.0	3.0	2.1	2.1	2.3
74.0										2.5	2.8		1.8	1.8	1.9
78.0										1.8	2.0		1.5	1.6	

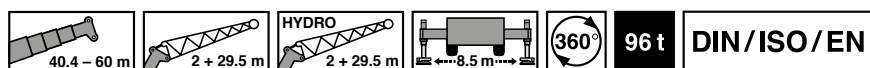


m	40.4 m + 2.0 m + 29.5 m			45.4 m + 2.0 m + 29.5 m			50.5 m + 2.0 m + 29.5 m			55.6 m + 2.0 m + 29.5 m			60.0 m + 2.0 m + 29.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	23.9														
14.0	21.9			21.1											
16.0	20.2			19.9											
18.0	18.7			18.5			16.9			13.6					
20.0	17.5			17.3			16.9			13.6			12.0		
22.0	16.3			16.3			15.9			13.6			12.0		
24.0	15.3	10.9		15.3	10.8		14.8			13.6			11.9		
26.0	14.4	10.4		14.5	10.3		13.8	10.1		12.9			10.9		
28.0	13.6	10.0		13.7	9.9		12.9	9.7		12.1	9.4		10.0		
30.0	12.9	9.6		13.0	9.5		12.0	9.3		11.4	9.0		9.2	6.7	
32.0	12.2	9.2	7.5	12.3	9.1	7.5	11.3	9.0		10.6	8.5		8.4	6.3	
34.0	11.6	8.8	7.3	11.8	8.8	7.3	10.6	8.7	7.1	10.0	8.1		7.7	5.9	
36.0	11.1	8.5	7.1	11.2	8.5	7.1	10.0	8.3	6.9	9.4	7.8	6.7	7.0	5.5	
38.0	10.6	8.2	6.9	10.7	8.2	6.9	9.5	8.0	6.8	8.9	7.4	6.5	6.4	5.2	4.4
40.0	10.1	7.9	6.8	10.3	7.9	6.7	9.0	7.7	6.6	8.4	7.1	6.2	5.9	4.9	4.2
42.0	9.7	7.7	6.6	9.9	7.7	6.5	8.5	7.4	6.4	7.9	6.8	6.0	5.4	4.6	4.0
44.0	9.3	7.4	6.4	9.5	7.4	6.4	8.1	7.1	6.2	7.5	6.5	5.8	5.0	4.3	3.8
46.0	8.9	7.2	6.3	9.1	7.2	6.3	7.7	6.8	6.0	7.1	6.3	5.6	4.6	4.1	3.6
48.0	8.6	7.0	6.2	8.8	7.0	6.1	7.3	6.5	5.9	6.6	6.0	5.4	4.2	3.9	3.4
50.0	8.3	6.8	6.1	8.5	6.8	6.0	6.9	6.3	5.7	6.2	5.7	5.2	3.9	3.6	3.3
54.0	7.7	6.5	5.9	7.9	6.5	5.8	6.1	5.6	5.3	5.4	5.1	4.9	3.3	3.2	3.0
58.0	7.3	6.2	5.8	7.5	6.2	5.7	5.5	5.0	4.8	4.7	4.5	4.3	2.8	2.7	2.7
62.0	6.9	6.0	5.7	6.7	6.0	5.6	4.9	4.5	4.3	4.1	3.9	3.8	2.3	2.3	2.4
66.0	6.3	5.9		6.0	5.8	5.5	4.3	4.1	4.0	3.6	3.4	3.4	1.9	1.9	2.0
70.0				5.1	5.3		3.9	3.7	3.6	3.1	3.0	3.0	1.5	1.6	1.7
74.0				2.0	4.1		3.5	3.3		2.7	2.6	2.6			
78.0							2.4	3.1		2.3	2.3	2.3			
82.0										2.0	2.0				



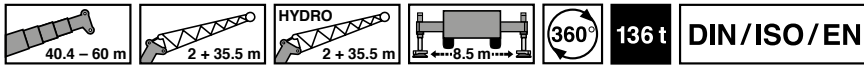


m	40.4 m + 2.0 m + 29.5 m			45.4 m + 2.0 m + 29.5 m			50.5 m + 2.0 m + 29.5 m			55.6 m + 2.0 m + 29.5 m			60.0 m + 2.0 m + 29.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	23.9														
14.0	21.9			21.1											
16.0	20.2			19.9			16.9			13.6					
18.0	18.7			18.5			16.9			13.6			12.0		
20.0	17.5			17.3			16.9			13.6			12.0		
22.0	16.3			16.3			15.9			13.6			12.0		
24.0	15.3	10.9		15.3	10.8		14.8			13.6			11.9		
26.0	14.4	10.4		14.5	10.3		13.8	10.1		12.9			10.9		
28.0	13.6	10.0		13.7	9.9		12.9	9.7		12.1	9.4		10.0		
30.0	12.9	9.6		13.0	9.5		12.0	9.3		11.4	9.0		9.2	6.7	
32.0	12.2	9.2	7.5	12.3	9.1	7.5	11.3	9.0		10.6	8.5		8.4	6.3	
34.0	11.6	8.8	7.3	11.8	8.8	7.3	10.6	8.7	7.1	10.0	8.1		7.7	5.9	
36.0	11.1	8.5	7.1	11.2	8.5	7.1	10.0	8.3	6.9	9.4	7.8	6.7	7.0	5.5	
38.0	10.6	8.2	6.9	10.7	8.2	6.9	9.5	8.0	6.8	8.9	7.4	6.5	6.4	5.2	4.4
40.0	10.1	7.9	6.8	10.3	7.9	6.7	9.0	7.7	6.6	8.4	7.1	6.2	5.9	4.9	4.2
42.0	9.7	7.7	6.6	9.9	7.7	6.5	8.5	7.4	6.4	7.9	6.8	6.0	5.4	4.6	4.0
44.0	9.3	7.4	6.4	9.5	7.4	6.4	8.1	7.1	6.2	7.5	6.5	5.8	5.0	4.3	3.8
46.0	8.9	7.2	6.3	9.1	7.2	6.3	7.7	6.8	6.0	7.1	6.3	5.6	4.6	4.1	3.6
48.0	8.6	7.0	6.2	8.8	7.0	6.1	7.3	6.5	5.9	6.6	6.0	5.4	4.2	3.9	3.4
50.0	8.3	6.8	6.1	8.5	6.8	6.0	6.9	6.3	5.7	6.2	5.7	5.2	3.9	3.6	3.3
54.0	7.7	6.5	5.9	7.9	6.5	5.8	6.1	5.6	5.3	5.4	5.1	4.9	3.3	3.2	3.0
58.0	7.3	6.2	5.8	7.5	6.2	5.7	5.5	5.0	4.8	4.7	4.5	4.3	2.8	2.7	2.7
62.0	6.9	6.0	5.7	6.7	6.0	5.6	4.9	4.5	4.3	4.1	3.9	3.8	2.3	2.3	2.4
66.0	6.1	5.9		6.0	5.8	5.5	4.3	4.1	4.0	3.6	3.4	3.4	1.9	1.9	2.0
70.0				5.0	5.3		3.9	3.7	3.6	3.1	3.0	3.0	1.5	1.6	1.7
74.0				2.0	4.1		3.5	3.3		2.7	2.6	2.6			
78.0							2.4	3.1		2.3	2.3	2.3			
82.0										2.0	2.0				

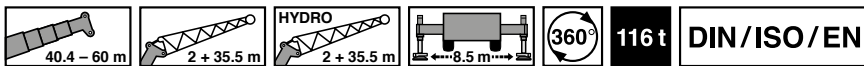


m	40.4 m + 2.0 m + 29.5 m			45.4 m + 2.0 m + 29.5 m			50.5 m + 2.0 m + 29.5 m			55.6 m + 2.0 m + 29.5 m			60.0 m + 2.0 m + 29.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	21.9														
14.0	20.4			18.9											
16.0	19.0			17.7			14.8			13.6					
18.0	17.8			16.7			13.7			12.5			11.9		
20.0	16.7			15.7			12.7			11.6			11.0		
22.0	15.8			14.9			11.9			10.7			10.2		
24.0	14.9	10.9		14.1	10.8		11.1			10.0			9.6		
26.0	14.1	10.4		13.4	10.3		10.5	8.2		9.4			9.0		
28.0	13.4	10.0		12.7	9.9		9.9	7.9		8.8	7.2		8.4		
30.0	12.8	9.6		12.1	9.5		9.3	7.5		8.3	6.9		7.9	6.6	
32.0	12.2	9.2	7.5	11.4	9.1	7.5	8.8	7.2		7.9	6.6		7.5	6.3	
34.0	11.6	8.8	7.3	10.8	8.8	7.3	8.3	6.9	6.0	7.5	6.3		7.1	5.9	
36.0	11.1	8.5	7.1	10.3	8.5	7.1	7.9	6.6	5.7	7.1	6.0	5.3	6.7	5.5	
38.0	10.6	8.2	6.9	9.8	8.2	6.9	7.5	6.3	5.5	6.7	5.7	5.1	6.4	5.2	4.4
40.0	10.1	7.9	6.8	9.3	7.9	6.7	7.1	6.1	5.4	6.4	5.5	4.9	5.9	4.9	4.2
42.0	9.7	7.7	6.6	8.9	7.7	6.5	6.8	5.9	5.2	6.1	5.2	4.7	5.4	4.6	4.0
44.0	9.3	7.4	6.4	8.5	7.4	6.4	6.4	5.7	5.0	5.8	5.0	4.6	5.0	4.3	3.8
46.0	8.9	7.2	6.3	8.2	7.2	6.3	6.1	5.5	4.9	5.4	4.8	4.4	4.6	4.1	3.6
48.0	8.6	7.0	6.2	7.8	7.0	6.1	5.9	5.3	4.7	5.1	4.7	4.2	4.2	3.9	3.4
50.0	8.3	6.8	6.1	7.5	6.8	6.0	5.5	5.1	4.6	4.7	4.4	4.1	3.9	3.6	3.3
54.0	7.4	6.5	5.9	7.0	6.3	5.8	4.9	4.5	4.3	4.1	3.9	3.8	3.3	3.2	3.0
58.0	6.1	6.2	5.8	6.0	5.9	5.6	4.4	4.1	3.9	3.6	3.4	3.3	2.8	2.7	2.7
62.0	5.0	5.6	5.7	4.9	5.5	5.2	4.0	3.7	3.5	3.2	3.0	2.9	2.3	2.3	2.4
66.0	4.1	4.4		3.9	4.5	4.7	3.6	3.3	3.2	2.8	2.6	2.6	1.9	1.9	2.0
70.0				3.1	3.5		3.1	3.0	2.9	2.4	2.3	2.3	1.5	1.6	1.7
74.0				2.0	2.5		2.4	2.8		2.1	2.0	2.0			
78.0							1.7	1.9		1.8	1.7	1.7			
82.0											1.5				



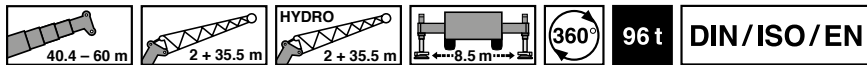


m	40.4 m + 2.0 m + 35.5 m			45.4 m + 2.0 m + 35.5 m			50.5 m + 2.0 m + 35.5 m			55.6 m + 2.0 m + 35.5 m			60.0 m + 2.0 m + 35.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	18.3														
16.0	16.9			16.7											
18.0	15.7			15.5			13.5			11.0					
20.0	14.6			14.5			13.5			11.0			9.7		
22.0	13.7			13.6			13.1			11.0			9.7		
24.0	12.8			12.8			12.4			11.0			9.7		
26.0	12.0	8.5		12.0			11.7			11.0			9.6		
28.0	11.3	8.1		11.4	8.1		11.1			10.9			8.8		
30.0	10.7	7.8		10.8	7.7		10.5	7.5		10.3			8.0		
32.0	10.1	7.5		10.2	7.4		10.0	7.2		9.7	7.1		7.4	5.4	
34.0	9.6	7.1		9.7	7.1		9.6	7.0		9.1	6.8		6.8	5.0	
36.0	9.1	6.9	5.6	9.2	6.8		9.1	6.7		8.6	6.6		6.3	4.7	
38.0	8.7	6.6	5.4	8.8	6.6	5.4	8.7	6.5		8.2	6.4		5.8	4.4	
40.0	8.3	6.3	5.3	8.4	6.3	5.2	8.3	6.2	5.1	7.8	6.1		5.3	4.1	
42.0	7.9	6.1	5.1	8.1	6.1	5.1	8.0	6.0	5.0	7.3	5.9	4.9	4.9	3.9	3.3
44.0	7.6	5.9	5.0	7.7	5.9	4.9	7.6	5.8	4.9	6.9	5.7	4.8	4.5	3.6	3.1
46.0	7.3	5.7	4.8	7.4	5.7	4.8	7.2	5.6	4.7	6.4	5.5	4.7	4.1	3.4	2.9
48.0	7.0	5.5	4.7	7.1	5.5	4.7	6.9	5.5	4.6	5.9	5.3	4.5	3.7	3.2	2.7
50.0	6.7	5.3	4.6	6.8	5.4	4.6	6.4	5.3	4.5	5.5	5.1	4.4	3.4	3.0	2.6
54.0	6.2	5.0	4.4	6.4	5.0	4.4	5.7	5.0	4.3	4.8	4.5	4.0	2.8	2.6	2.3
58.0	5.8	4.8	4.3	5.9	4.8	4.2	5.0	4.6	4.1	4.1	3.9	3.7	2.3	2.3	2.0
62.0	5.4	4.5	4.1	5.6	4.5	4.1	4.4	4.1	3.8	3.6	3.4	3.3	1.9	1.9	1.8
66.0	5.1	4.3	4.1	5.2	4.3	4.0	3.9	3.6	3.4	3.0	2.9	2.9	1.5	1.6	1.6
70.0	4.8	4.2	4.1	4.8	4.2	3.9	3.4	3.2	3.1	2.6	2.5	2.5			
74.0	3.2	4.2		4.3	4.1	3.9	3.0	2.8	2.8	2.2	2.1	2.1			
78.0				3.1	3.8		2.6	2.5	2.5						
82.0							2.3	2.2							

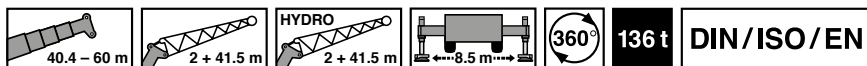


m	40.4 m + 2.0 m + 35.5 m			45.4 m + 2.0 m + 35.5 m			50.5 m + 2.0 m + 35.5 m			55.6 m + 2.0 m + 35.5 m			60.0 m + 2.0 m + 35.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	18.3														
16.0	16.9			16.7											
18.0	15.7			15.5			13.5			11.0					
20.0	14.6			14.5			13.5			11.0			9.7		
22.0	13.7			13.6			13.1			11.0			9.7		
24.0	12.8			12.8			12.4			11.0			9.7		
26.0	12.0	8.5		12.0			11.7			11.0			9.6		
28.0	11.3	8.1		11.4	8.1		11.1			10.9			8.8		
30.0	10.7	7.8		10.8	7.7		10.5	7.5		10.3			8.0		
32.0	10.1	7.5		10.2	7.4		10.0	7.2		9.7	7.1		7.4	5.4	
34.0	9.6	7.1		9.7	7.1		9.6	7.0		9.1	6.8		6.8	5.0	
36.0	9.1	6.9	5.6	9.2	6.8		9.1	6.7		8.6	6.6		6.3	4.7	
38.0	8.7	6.6	5.4	8.8	6.6	5.4	8.7	6.5		8.2	6.4		5.8	4.4	
40.0	8.3	6.3	5.3	8.4	6.3	5.2	8.3	6.2	5.1	7.8	6.1		5.3	4.1	
42.0	7.9	6.1	5.1	8.1	6.1	5.1	8.0	6.0	5.0	7.3	5.9	4.9	4.9	3.9	3.3
44.0	7.6	5.9	5.0	7.7	5.9	4.9	7.6	5.8	4.9	6.9	5.7	4.8	4.5	3.6	3.1
46.0	7.3	5.7	4.8	7.4	5.7	4.8	7.2	5.6	4.7	6.4	5.5	4.7	4.1	3.4	2.9
48.0	7.0	5.5	4.7	7.1	5.5	4.7	6.9	5.5	4.6	5.9	5.3	4.5	3.7	3.2	2.7
50.0	6.7	5.3	4.6	6.8	5.4	4.6	6.4	5.3	4.5	5.5	5.1	4.4	3.4	3.0	2.6
54.0	6.2	5.0	4.4	6.4	5.0	4.4	5.7	5.0	4.3	4.8	4.5	4.0	2.8	2.6	2.3
58.0	5.8	4.8	4.3	5.9	4.8	4.2	5.0	4.6	4.1	4.1	3.9	3.7	2.3	2.3	2.0
62.0	5.4	4.5	4.1	5.6	4.5	4.1	4.4	4.1	3.8	3.6	3.4	3.3	1.9	1.9	1.8
66.0	5.1	4.3	4.1	5.2	4.3	4.0	3.9	3.6	3.4	3.0	2.9	2.9	1.5	1.6	1.6
70.0	4.8	4.2	4.1	4.8	4.2	3.9	3.4	3.2	3.1	2.6	2.5	2.5			
74.0	3.2	4.2		4.3	4.1	3.9	3.0	2.8	2.8	2.2	2.1	2.1			
78.0				3.1	3.8		2.6	2.5	2.5						
82.0							2.3	2.2							

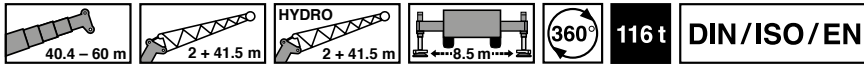
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



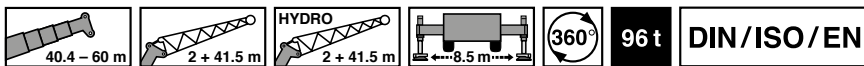
m	40.4 m + 2.0 m + 35.5 m			45.4 m + 2.0 m + 35.5 m			50.5 m + 2.0 m + 35.5 m			55.6 m + 2.0 m + 35.5 m			60.0 m + 2.0 m + 35.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	17.2														
16.0	16.2			15.1											
18.0	15.3			14.3			12.9			11.0					
20.0	14.5			13.6			12.1			10.7			9.7		
22.0	13.7			12.9			11.3			9.9			9.5		
24.0	12.8			12.3			10.5			9.2			8.8		
26.0	12.0	8.5		11.7			9.9			8.6			8.2		
28.0	11.3	8.1		11.1	8.1		9.3			8.1			7.7		
30.0	10.7	7.8		10.6	7.7		8.7	6.9		7.6			7.3		
32.0	10.1	7.5		10.1	7.4		8.3	6.6		7.2	5.9		6.9	5.4	
34.0	9.6	7.1		9.7	7.1		7.8	6.3		6.8	5.6		6.5	5.0	
36.0	9.1	6.9	5.6	9.2	6.8		7.4	6.0		6.4	5.3		6.1	4.7	
38.0	8.7	6.6	5.4	8.8	6.6	5.4	7.1	5.7		6.1	5.1		5.8	4.4	
40.0	8.3	6.3	5.3	8.4	6.3	5.2	6.7	5.5	4.8	5.8	4.9		5.3	4.1	
42.0	7.9	6.1	5.1	8.1	6.1	5.1	6.4	5.3	4.6	5.5	4.7	4.1	4.9	3.9	3.3
44.0	7.6	5.9	5.0	7.7	5.9	4.9	6.1	5.1	4.5	5.2	4.5	3.9	4.5	3.6	3.1
46.0	7.3	5.7	4.8	7.4	5.7	4.8	5.8	4.9	4.3	4.8	4.3	3.7	4.1	3.4	2.9
48.0	7.0	5.5	4.7	7.1	5.5	4.7	5.4	4.7	4.2	4.5	4.0	3.5	3.7	3.2	2.7
50.0	6.7	5.3	4.6	6.8	5.4	4.6	5.1	4.6	4.0	4.1	3.8	3.3	3.4	3.0	2.6
54.0	6.2	5.0	4.4	6.2	5.0	4.4	4.5	4.1	3.7	3.6	3.4	3.0	2.8	2.6	2.3
58.0	5.8	4.8	4.3	5.6	4.8	4.2	3.9	3.6	3.4	3.0	2.9	2.7	2.3	2.3	2.0
62.0	5.2	4.5	4.1	5.0	4.5	4.1	3.5	3.2	3.0	2.6	2.5	2.4	1.9	1.9	1.8
66.0	4.2	4.3	4.1	4.1	4.1	3.9	3.1	2.8	2.7	2.2	2.1	2.1	1.5	1.6	1.6
70.0	3.4	3.9	4.0	3.2	3.8	3.6	2.7	2.5	2.4	1.9	1.8	1.8			
74.0	2.7	2.9		2.5	3.0	3.1	2.4	2.2	2.1	1.5	1.5	1.5			
78.0				1.8	2.1		1.9	2.0	1.9						
82.0								1.6							



m	40.4 m + 2.0 m + 41.5 m			45.4 m + 2.0 m + 41.5 m			50.5 m + 2.0 m + 41.5 m			55.6 m + 2.0 m + 41.5 m			60.0 m + 2.0 m + 41.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	14.3			14.0											
18.0	13.2			13.0			11.6								
20.0	12.2			12.1			11.6			9.4					
22.0	11.4			11.3			11.1			9.4			8.2		
24.0	10.6			10.6			10.4			9.4			8.2		
26.0	10.0			9.9			9.8			9.4			8.2		
28.0	9.3			9.3			9.2			9.3			7.4		
30.0	8.8	6.2		8.8			8.7			8.7			6.8		
32.0	8.3	5.9		8.3	5.8		8.2			8.2			6.2		
34.0	7.8	5.6		7.9	5.6		7.8	5.4		7.8			5.6		
36.0	7.4	5.4		7.5	5.3		7.4	5.2		7.4	5.1		5.1	3.7	
38.0	7.0	5.1		7.1	5.1		7.0	5.0		7.0	4.9		4.7	3.4	
40.0	6.6	4.9		6.7	4.9		6.7	4.8		6.7	4.7		4.3	3.1	
42.0	6.3	4.7	3.8	6.4	4.7		6.4	4.6		6.4	4.5		3.9	2.9	
44.0	6.0	4.5	3.6	6.1	4.5	3.6	6.1	4.4		5.9	4.4		3.6	2.7	
46.0	5.7	4.3	3.5	5.8	4.3	3.5	5.8	4.3	3.4	5.4	4.2		3.3	2.5	
48.0	5.5	4.1	3.4	5.6	4.2	3.4	5.6	4.1	3.3	5.0	4.1	3.3	2.9	2.3	1.9
50.0	5.2	4.0	3.3	5.3	4.0	3.3	5.4	4.0	3.2	4.6	3.9	3.2	2.6	2.1	1.7
54.0	4.8	3.7	3.0	4.9	3.7	3.1	4.7	3.7	3.0	3.8	3.5	2.9	2.1	1.7	
58.0	4.4	3.4	2.8	4.5	3.5	2.9	4.0	3.4	2.9	3.2	3.0	2.6	1.6		
62.0	4.0	3.2	2.7	4.2	3.2	2.7	3.4	3.1	2.7	2.7	2.5				
66.0	3.7	3.0	2.5	3.9	3.0	2.5	2.9	2.7	2.5						
70.0	3.5	2.8	2.4	3.6	2.9	2.4	2.5	2.3	2.2						
74.0	3.2	2.6	2.4	3.4	2.7	2.3									
78.0	3.0	2.5		3.0	2.5	2.3									
82.0				2.7	2.4	2.3									

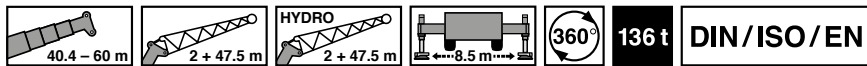


m	40.4 m + 2.0 m + 41.5 m			45.4 m + 2.0 m + 41.5 m			50.5 m + 2.0 m + 41.5 m			55.6 m + 2.0 m + 41.5 m			60.0 m + 2.0 m + 41.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	14.3			14.0											
18.0	13.2			13.0			11.6								
20.0	12.2			12.1			11.6			9.4					
22.0	11.4			11.3			11.1			9.4			8.2		
24.0	10.6			10.6			10.4			9.4			8.2		
26.0	10.0			9.9			9.8			9.4			8.2		
28.0	9.3			9.3			9.2			9.3			7.4		
30.0	8.8	6.2		8.8			8.7			8.7			6.8		
32.0	8.3	5.9		8.3	5.8		8.2			8.2			6.2		
34.0	7.8	5.6		7.9	5.6		7.8	5.4		7.8			5.6		
36.0	7.4	5.4		7.5	5.3		7.4	5.2		7.4	5.1		5.1	3.7	
38.0	7.0	5.1		7.1	5.1		7.0	5.0		7.0	4.9		4.7	3.4	
40.0	6.6	4.9		6.7	4.9		6.7	4.8		6.7	4.7		4.3	3.1	
42.0	6.3	4.7	3.8	6.4	4.7		6.4	4.6		6.4	4.5		3.9	2.9	
44.0	6.0	4.5	3.6	6.1	4.5	3.6	6.1	4.4		5.9	4.4		3.6	2.7	
46.0	5.7	4.3	3.5	5.8	4.3	3.5	5.8	4.3	3.4	5.4	4.2		3.3	2.5	
48.0	5.5	4.1	3.4	5.6	4.2	3.4	5.6	4.1	3.3	5.0	4.1	3.3	2.9	2.3	1.9
50.0	5.2	4.0	3.3	5.3	4.0	3.3	5.4	4.0	3.2	4.6	3.9	3.2	2.6	2.1	1.7
54.0	4.8	3.7	3.0	4.9	3.7	3.1	4.7	3.7	3.0	3.8	3.5	2.9	2.1	1.7	
58.0	4.4	3.4	2.8	4.5	3.5	2.9	4.0	3.4	2.9	3.2	3.0	2.6	1.6		
62.0	4.0	3.2	2.7	4.2	3.2	2.7	3.4	3.1	2.7	2.7	2.5				
66.0	3.7	3.0	2.5	3.9	3.0	2.5	2.9	2.7	2.5						
70.0	3.5	2.8	2.4	3.6	2.9	2.4	2.5	2.3	2.2						
74.0	3.2	2.6	2.4	3.4	2.7	2.3									
78.0	3.0	2.5		3.0	2.5	2.3									
82.0				2.7	2.4	2.3									

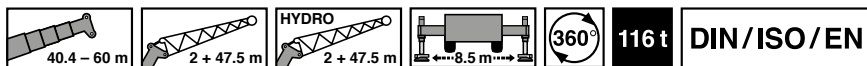


m	40.4 m + 2.0 m + 41.5 m			45.4 m + 2.0 m + 41.5 m			50.5 m + 2.0 m + 41.5 m			55.6 m + 2.0 m + 41.5 m			60.0 m + 2.0 m + 41.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	13.4			12.3											
18.0	12.7			11.7			10.5								
20.0	12.0			11.1			10.0			8.9					
22.0	11.3			10.5			9.6			8.6			7.9		
24.0	10.6			10.0			9.2			8.2			7.7		
26.0	10.0			9.5			8.8			7.8			7.4		
28.0	9.3			9.1			8.3			7.3			6.9		
30.0	8.8	6.2		8.7			7.8			6.8			6.5		
32.0	8.3	5.9		8.3	5.8		7.3			6.4			6.1		
34.0	7.8	5.6		7.9	5.6		6.9	5.4		6.0			5.6		
36.0	7.4	5.4		7.5	5.3		6.5	5.2		5.7	4.6		5.1	3.7	
38.0	7.0	5.1		7.1	5.1		6.2	4.9		5.3	4.3		4.7	3.4	
40.0	6.6	4.9		6.7	4.9		5.9	4.7		5.0	4.0		4.3	3.1	
42.0	6.3	4.7	3.8	6.4	4.7		5.5	4.4		4.6	3.7		3.9	2.9	
44.0	6.0	4.5	3.6	6.1	4.5	3.6	5.1	4.2		4.2	3.4		3.6	2.7	
46.0	5.7	4.3	3.5	5.8	4.3	3.5	4.8	3.9	3.2	3.8	3.2		3.3	2.5	
48.0	5.5	4.1	3.4	5.6	4.2	3.4	4.4	3.7	3.0	3.5	3.0	2.5	2.9	2.3	1.9
50.0	5.2	4.0	3.3	5.3	4.0	3.3	4.1	3.5	2.9	3.2	2.7	2.3	2.6	2.1	1.7
54.0	4.8	3.7	3.0	4.9	3.7	3.1	3.5	3.1	2.5	2.6	2.4	2.0	2.1	1.7	
58.0	4.4	3.4	2.8	4.5	3.5	2.9	3.0	2.7	2.3	2.1	2.0	1.7	1.6		
62.0	4.0	3.2	2.7	4.0	3.2	2.7	2.5	2.3	2.0	1.7	1.6				
66.0	3.7	3.0	2.5	3.5	3.0	2.5	2.1	1.9	1.8						
70.0	3.3	2.8	2.4	3.1	2.7	2.4	1.8	1.6	1.5						
74.0	2.6	2.6	2.4	2.3	2.4	2.3									
78.0	1.9	2.3		1.7	2.1	2.0									
82.0					1.5										

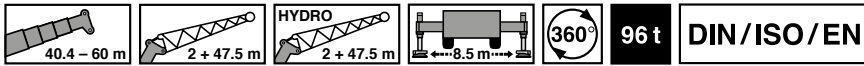
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

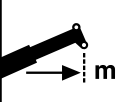


m	40.4 m + 2.0 m + 47.5 m			45.4 m + 2.0 m + 47.5 m			50.5 m + 2.0 m + 47.5 m			55.6 m + 2.0 m + 47.5 m			60.0 m + 2.0 m + 47.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	11.6														
18.0	10.8			10.4											
20.0	10.0			9.8			9.2								
22.0	9.3			9.1			8.8			7.6					
24.0	8.7			8.6			8.3			7.6			6.7		
26.0	8.1			8.0			7.8			7.4			6.7		
28.0	7.6			7.6			7.4			7.2			6.4		
30.0	7.2			7.1			7.0			6.9			5.8		
32.0	6.7			6.7			6.6			6.5			5.2		
34.0	6.3	4.4		6.3			6.2			6.2			4.7		
36.0	6.0	4.1		6.0	4.1		5.9			5.9			4.2		
38.0	5.6	3.9		5.7	3.9		5.6	3.8		5.6			3.8		
40.0	5.3	3.7		5.4	3.7		5.3	3.6		5.3	3.5		3.5	2.3	
42.0	5.0	3.5		5.1	3.5		5.0	3.5		5.0	3.4		3.1	2.1	
44.0	4.7	3.4		4.8	3.4		4.8	3.3		4.8	3.2		2.8	1.9	
46.0	4.5	3.2		4.6	3.2		4.6	3.2		4.5	3.1		2.5	1.7	
48.0	4.2	3.0	2.2	4.3	3.0		4.3	3.0		4.2	3.0		2.2	1.5	
50.0	4.0	2.9	2.0	4.1	2.9	2.0	4.1	2.9		3.8	2.8		2.0		
54.0	3.6	2.6	1.8	3.7	2.6	1.8	3.7	2.6	1.8	3.1	2.6		1.5		
58.0	3.3	2.3	1.6	3.4	2.4	1.6	3.2	2.4		2.5					
62.0	2.9	2.0	1.5	3.1	2.1	1.5	2.7	2.2							
66.0	2.6	1.8		2.8	1.9										
70.0	2.3	1.6		2.5	1.7										
74.0	2.0			2.2	1.5										
78.0	1.8			2.0											
82.0	1.6														



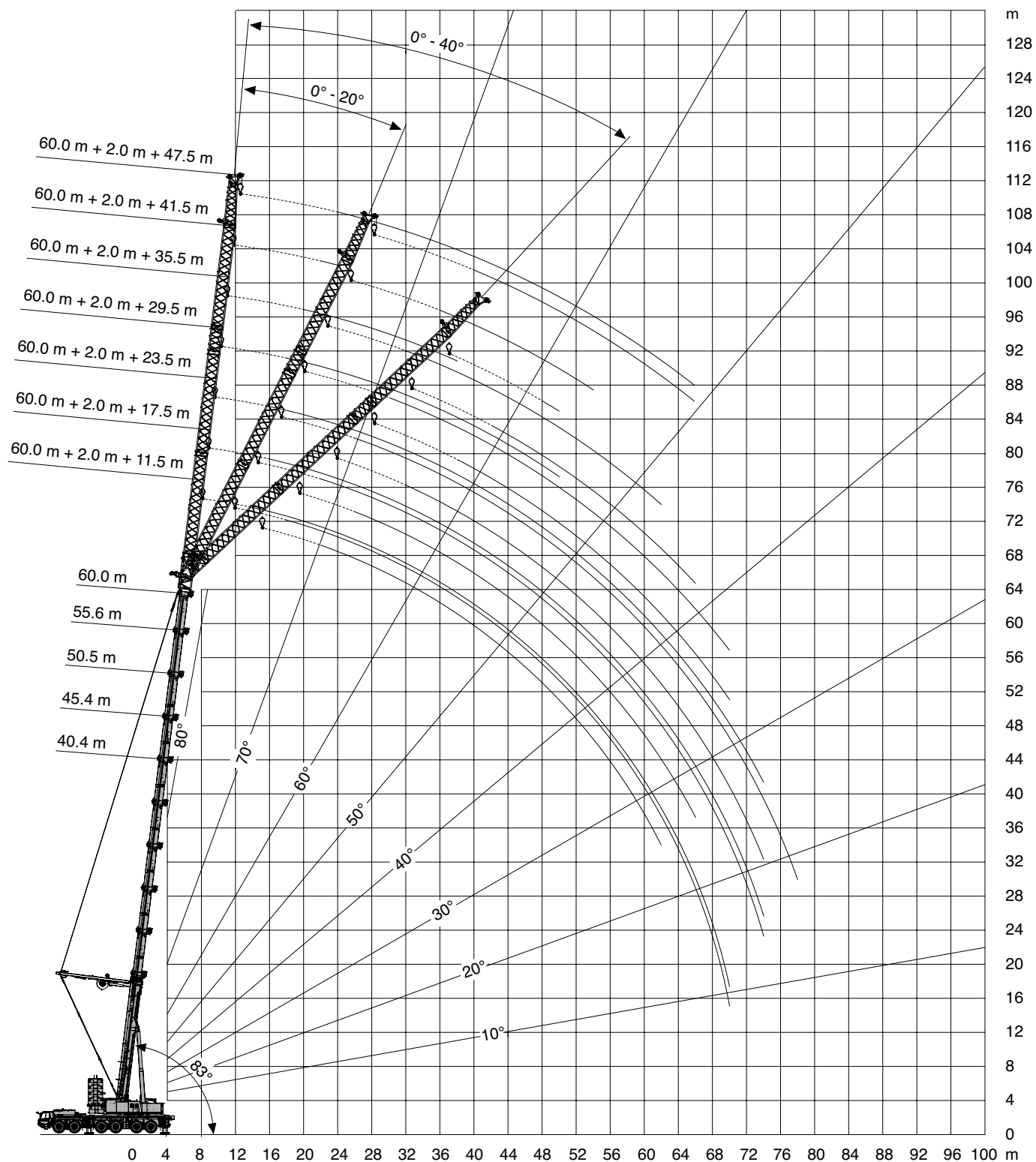
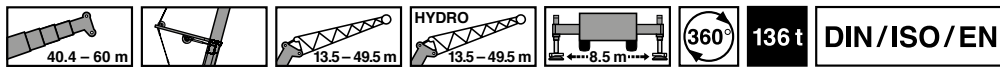
m	40.4 m + 2.0 m + 47.5 m			45.4 m + 2.0 m + 47.5 m			50.5 m + 2.0 m + 47.5 m			55.6 m + 2.0 m + 47.5 m			60.0 m + 2.0 m + 47.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	11.6														
18.0	10.8			10.4											
20.0	10.0			9.8			9.2								
22.0	9.3			9.1			8.8			7.6					
24.0	8.7			8.6			8.3			7.6			6.7		
26.0	8.1			8.0			7.8			7.4			6.7		
28.0	7.6			7.6			7.4			7.2			6.4		
30.0	7.2			7.1			7.0			6.9			5.8		
32.0	6.7			6.7			6.6			6.5			5.2		
34.0	6.3	4.4		6.3			6.2			6.2			4.7		
36.0	6.0	4.1		6.0	4.1		5.9			5.9			4.2		
38.0	5.6	3.9		5.7	3.9		5.6	3.8		5.6			3.8		
40.0	5.3	3.7		5.4	3.7		5.3	3.6		5.3	3.5		3.5	2.3	
42.0	5.0	3.5		5.1	3.5		5.0	3.5		5.0	3.4		3.1	2.1	
44.0	4.7	3.4		4.8	3.4		4.8	3.3		4.8	3.2		2.8	1.9	
46.0	4.5	3.2		4.6	3.2		4.6	3.2		4.5	3.1		2.5	1.7	
48.0	4.2	3.0	2.2	4.3	3.0		4.3	3.0		4.2	3.0		2.2	1.5	
50.0	4.0	2.9	2.0	4.1	2.9	2.0	4.1	2.9		3.8	2.8		2.0		
54.0	3.6	2.6	1.8	3.7	2.6	1.8	3.7	2.6	1.8	3.1	2.6		1.5		
58.0	3.3	2.3	1.6	3.4	2.4	1.6	3.2	2.4		2.5					
62.0	2.9	2.0	1.5	3.1	2.1	1.5	2.7	2.2							
66.0	2.6	1.8		2.8	1.9										
70.0	2.3	1.6		2.5	1.7										
74.0	2.0			2.2	1.5										
78.0	1.8			2.0											
82.0	1.6														



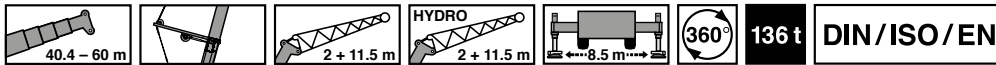
 m	40.4 m + 2.0 m + 47.5 m			45.4 m + 2.0 m + 47.5 m			50.5 m + 2.0 m + 47.5 m			55.6 m + 2.0 m + 47.5 m			60.0 m + 2.0 m + 47.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	10.7														
18.0	10.1			9.3											
20.0	9.6			8.8			7.8								
22.0	9.0			8.3			7.5			6.5					
24.0	8.5			7.9			7.1			6.3			5.8		
26.0	8.1			7.5			6.8			6.0			5.6		
28.0	7.6			7.1			6.5			5.8			5.4		
30.0	7.2			6.8			6.2			5.6			5.2		
32.0	6.7			6.5			5.9			5.3			4.9		
34.0	6.3	4.4		6.2			5.6			5.1			4.7		
36.0	6.0	4.1		5.9	4.1		5.4			4.9			4.2		
38.0	5.6	3.9		5.6	3.9		5.2	3.8		4.6			3.8		
40.0	5.3	3.7		5.3	3.7		4.9	3.6		4.2	3.1		3.5	2.3	
42.0	5.0	3.5		5.1	3.5		4.7	3.5		3.8	2.8		3.1	2.1	
44.0	4.7	3.4		4.8	3.4		4.4	3.2		3.5	2.6		2.8	1.9	
46.0	4.5	3.2		4.6	3.2		4.0	3.0		3.2	2.4		2.5	1.7	
48.0	4.2	3.0	2.2	4.3	3.0		3.6	2.8		2.8	2.1		2.2	1.5	
50.0	4.0	2.9	2.0	4.1	2.9	2.0	3.3	2.6		2.5	1.9		2.0		
54.0	3.6	2.6	1.8	3.7	2.6	1.8	2.7	2.2	1.6	2.0	1.5		1.5		
58.0	3.3	2.3	1.6	3.4	2.4	1.6	2.2	1.9		1.5					
62.0	2.9	2.0	1.5	3.1	2.1	1.5	1.8	1.6							
66.0	2.6	1.8		2.6	1.9										
70.0	2.3	1.6		2.2	1.7										
74.0	2.0			1.8	1.5										
78.0	1.8			1.5											

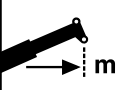
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

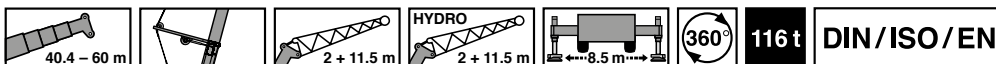
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона




Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность

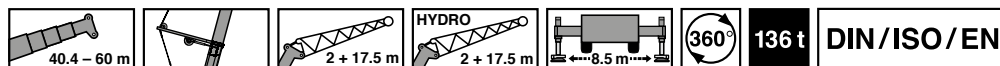


 m	40.4 m + 2.0 m + 11.5 m			45.4 m + 2.0 m + 11.5 m			50.5 m + 2.0 m + 11.5 m			55.6 m + 2.0 m + 11.5 m			60.0 m + 2.0 m + 11.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	45.8														
10.0	45.5			36.6											
11.0	45.4			36.6			29.4								
12.0	44.8			36.6			28.2			22.4					
14.0	43.4	38.6		36.6	31.4		26.1			22.4			19.5		
16.0	42.4	37.0	25.7	36.6	31.0		24.2	22.0		20.9	17.1		19.5		
18.0	41.4	35.7	24.9	36.1	30.6	24.6	22.7	21.8	20.1	19.5	16.3		18.6	15.5	
20.0	39.5	34.5	24.1	33.9	30.4	24.1	21.9	21.6	20.0	18.3	16.1	15.1	17.5	14.7	
22.0	35.8	32.9	23.4	30.9	29.9	23.6	21.4	21.3	19.9	17.2	15.9	15.1	16.5	14.0	12.7
24.0	32.4	30.9	22.9	30.1	29.5	23.2	20.9	21.0	19.8	16.2	15.6	15.0	15.6	13.4	12.6
26.0	29.5	28.4	22.5	29.2	27.1	22.8	20.5	20.7	19.8	15.4	15.4	14.8	14.8	12.9	12.4
28.0	27.1	26.2	22.2	26.7	24.9	22.5	19.9	20.4	19.6	14.9	15.1	14.6	14.0	12.6	12.3
30.0	25.0	24.3	22.0	24.7	23.1	22.1	19.2	20.0	19.3	14.5	14.8	14.5	13.1	12.4	12.1
32.0	23.2	22.5	21.4	22.7	21.5	20.9	18.9	19.6	19.1	14.0	14.6	14.4	12.1	12.2	12.0
34.0	21.4	20.9	20.5	21.1	19.9	19.6	18.5	18.9	18.5	13.7	14.3	14.2	11.6	12.0	11.8
36.0	19.9	19.5	19.1	19.5	18.6	18.3	18.0	17.6	17.3	13.5	14.1	14.0	11.3	11.7	11.7
38.0	18.6	18.2	17.9	18.2	17.4	17.1	17.1	16.5	16.2	13.2	13.8	13.9	11.0	11.4	11.5
40.0	17.5	17.3	15.5	17.0	16.3	15.9	16.1	15.5	15.2	12.9	13.5	13.7	10.7	11.2	11.4
42.0	16.3	16.3	14.7	16.0	15.3	15.0	15.0	14.6	14.2	12.6	13.2	13.5	10.5	11.0	11.2
44.0	15.2	15.4	13.9	15.1	14.3	13.0	14.2	13.7	13.5	12.2	12.9	13.0	10.3	10.7	11.0
46.0	13.8	14.5		14.1	13.5	12.3	13.3	13.0	12.8	11.9	12.6	12.4	10.0	10.4	10.7
48.0	11.4	12.8		13.3	12.8	11.6	12.6	12.2	10.4	11.5	11.9	11.7	9.6	10.1	10.5
50.0	8.3	9.8		12.2	12.2		11.8	11.5	10.3	11.2	11.3	11.0	9.4	9.9	10.3
54.0				8.0	9.2		10.5	10.3		10.4	10.1	8.1	8.9	9.5	5.6
58.0							7.5	8.5		9.3	9.1	7.9	8.5	8.8	5.1
62.0										7.1	7.5		8.1	8.0	4.6
66.0										2.7	3.7		6.0	4.0	
70.0													2.3	3.2	

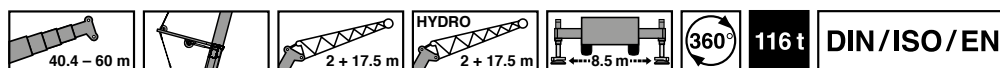


 m	40.4 m + 2.0 m + 11.5 m			45.4 m + 2.0 m + 11.5 m			50.5 m + 2.0 m + 11.5 m			55.6 m + 2.0 m + 11.5 m			60.0 m + 2.0 m + 11.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	45.8														
10.0	45.5			36.6											
11.0	45.4			36.6			29.4								
12.0	44.8			36.6			28.2			22.4					
14.0	43.4	38.6		36.6	31.4		26.1			22.4			19.5		
16.0	42.4	37.0	25.7	36.6	31.0		24.2	22.0		20.9	17.1		19.5		
18.0	41.4	35.7	24.9	36.1	30.6	24.6	22.7	21.8	20.1	19.5	16.3		18.6	15.5	
20.0	39.5	34.5	24.1	33.9	30.4	24.1	21.9	21.6	20.0	18.3	16.1	15.1	17.5	14.7	
22.0	35.8	32.9	23.4	30.9	29.9	23.6	21.4	21.3	19.9	17.2	15.9	15.1	16.5	14.0	12.7
24.0	32.4	30.9	22.9	30.1	29.5	23.2	20.9	21.0	19.8	16.2	15.6	15.0	15.6	13.4	12.6
26.0	29.5	28.4	22.5	29.2	27.1	22.8	20.5	20.7	19.8	15.4	15.4	14.8	14.8	12.9	12.4
28.0	27.1	26.2	22.2	26.7	24.9	22.5	19.9	20.4	19.6	14.9	15.1	14.6	14.0	12.6	12.3
30.0	25.0	24.3	22.0	24.7	23.1	22.1	19.2	20.0	19.3	14.5	14.8	14.5	13.1	12.4	12.1
32.0	23.2	22.5	21.4	22.7	21.5	20.9	18.9	19.6	19.1	14.0	14.6	14.4	12.1	12.2	12.0
34.0	21.4	20.9	20.5	21.1	19.9	19.6	18.5	18.9	18.5	13.7	14.3	14.2	11.6	12.0	11.8
36.0	19.9	19.5	19.1	19.5	18.6	18.3	18.0	17.6	17.3	13.5	14.1	14.0	11.3	11.7	11.7
38.0	17.9	18.2	17.9	18.2	17.4	17.1	17.1	16.5	16.2	13.2	13.8	13.9	11.0	11.4	11.5
40.0	16.2	17.0	15.5	16.6	16.3	15.9	16.1	15.5	15.2	12.9	13.5	13.7	10.7	11.2	11.4
42.0	14.7	15.4	14.7	15.0	15.3	15.0	15.0	14.6	14.2	12.6	13.2	13.5	10.5	11.0	11.2
44.0	13.4	13.9	13.9	13.7	14.3	13.0	14.1	13.7	13.5	12.2	12.9	13.0	10.3	10.7	11.0
46.0	12.1	12.6		12.4	13.0	12.3	12.8	13.0	12.8	11.9	12.6	12.4	10.0	10.4	10.7
48.0	11.0	11.4		11.3	11.8	11.6	11.7	12.2	10.4	11.5	11.9	11.7	9.6	10.1	10.5
50.0	8.3	9.8		10.3	10.7		10.7	11.2	10.3	11.1	11.3	11.0	9.4	9.9	10.3
54.0				8.0	8.7		8.9	9.2		9.3	9.7	8.1	8.9	9.5	5.6
58.0							7.3	7.5		7.7	8.1	7.9	7.6	8.0	5.1
62.0										6.4	6.6		6.3	6.6	4.6
66.0										2.7	3.7		5.1	4.0	
70.0													2.3	3.2	

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

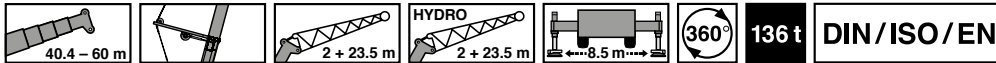



m	40.4 m + 2.0 m + 17.5 m			45.4 m + 2.0 m + 17.5 m			50.5 m + 2.0 m + 17.5 m			55.6 m + 2.0 m + 17.5 m			60.0 m + 2.0 m + 17.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10.0	32.6														
11.0	32.6			28.2											
12.0	32.6			28.2			21.6								
14.0	32.6			28.2			21.6			16.8					
16.0	31.2	26.0		28.2			21.3			16.8			14.4		
18.0	29.4	24.9		28.1	22.3		19.8	16.9		16.8			14.0		
20.0	28.3	23.8		26.9	22.2		18.5	16.8		16.0	12.8		13.6		
22.0	27.3	22.9	18.0	25.6	21.6		17.4	16.6		15.0	12.4		13.1	11.8	
24.0	26.1	22.2	17.5	24.5	21.0	17.3	16.9	16.5	14.6	14.1	12.2		12.7	11.2	
26.0	25.2	21.4	17.1	23.2	20.4	16.9	16.5	16.4	14.6	13.4	12.1	11.1	12.1	10.7	9.4
28.0	24.1	20.8	16.8	21.3	19.7	16.7	16.1	16.3	14.6	12.6	12.0	11.0	11.6	10.2	9.3
30.0	22.7	20.1	16.5	20.9	19.2	16.4	15.8	16.1	14.6	12.0	11.9	11.0	11.1	9.8	9.2
32.0	21.3	19.4	16.1	20.0	18.6	16.1	15.4	15.9	14.6	11.4	11.7	11.0	10.6	9.6	9.2
34.0	19.7	18.8	15.8	19.0	18.0	15.8	15.0	15.6	14.6	11.1	11.5	10.9	9.8	9.5	9.1
36.0	18.3	18.1	15.5	17.7	17.0	15.6	14.6	15.4	14.6	10.9	11.3	10.9	9.1	9.4	9.0
38.0	17.1	17.0	15.4	16.4	15.8	15.3	14.4	15.2	14.6	10.7	11.1	10.8	8.8	9.2	8.9
40.0	15.9	15.9	15.1	15.4	14.9	14.5	14.2	14.3	14.0	10.4	10.9	10.8	8.6	9.1	8.8
42.0	14.8	14.8	14.5	14.4	14.0	13.7	13.8	13.4	13.2	10.2	10.7	10.7	8.4	8.9	8.7
44.0	14.0	13.9	13.6	13.5	13.2	13.0	13.1	12.7	12.5	9.9	10.6	10.5	8.2	8.6	8.7
46.0	13.2	13.0	11.8	12.6	12.4	12.3	12.3	12.0	11.7	9.7	10.3	10.3	8.0	8.4	8.5
48.0	12.4	12.4	11.1	11.9	11.7	11.6	11.6	11.3	11.1	9.4	10.1	10.2	7.8	8.2	8.3
50.0	11.6	11.8	10.6	11.1	11.0	9.8	10.9	10.7	10.5	9.2	9.9	10.1	7.6	8.1	8.2
54.0	9.0	9.5		9.9	9.7	8.8	9.6	9.4	7.6	8.7	9.3	9.1	7.2	7.6	7.9
58.0				8.1	8.8		8.6	8.5	7.5	8.2	8.3	6.1	6.8	7.3	7.6
62.0				3.2	4.8		7.4	7.6		7.7	7.4	5.9	6.4	7.0	3.7
66.0							3.8	5.2		6.7	6.7		6.1	6.5	3.3
70.0										3.9	5.1		5.6	5.8	
74.0													3.1	2.5	

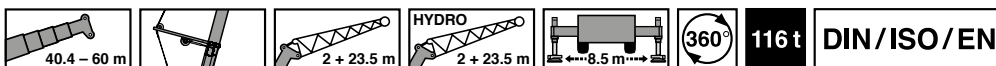


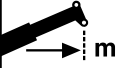
m	40.4 m + 2.0 m + 17.5 m			45.4 m + 2.0 m + 17.5 m			50.5 m + 2.0 m + 17.5 m			55.6 m + 2.0 m + 17.5 m			60.0 m + 2.0 m + 17.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10.0	32.6														
11.0	32.6			28.2											
12.0	32.6			28.2			21.6								
14.0	32.6			28.2			21.6			16.8					
16.0	31.2	26.0		28.2			21.3			16.8			14.4		
18.0	29.4	24.9		28.1	22.3		19.8	16.9		16.8			14.0		
20.0	28.3	23.8		26.9	22.2		18.5	16.8		16.0	12.8		13.6		
22.0	27.3	22.9	18.0	25.6	21.6		17.4	16.6		15.0	12.4		13.1	11.8	
24.0	26.1	22.2	17.5	24.5	21.0	17.3	16.9	16.5	14.6	14.1	12.2		12.7	11.2	
26.0	25.2	21.4	17.1	23.2	20.4	16.9	16.5	16.4	14.6	13.4	12.1	11.1	12.1	10.7	9.4
28.0	24.1	20.8	16.8	21.3	19.7	16.7	16.1	16.3	14.6	12.6	12.0	11.0	11.6	10.2	9.3
30.0	22.7	20.1	16.5	20.9	19.2	16.4	15.8	16.1	14.6	12.0	11.9	11.0	11.1	9.8	9.2
32.0	21.3	19.4	16.1	20.0	18.6	16.1	15.4	15.9	14.6	11.4	11.7	11.0	10.6	9.6	9.2
34.0	19.7	18.8	15.8	19.0	18.0	15.8	15.0	15.6	14.6	11.1	11.5	10.9	9.8	9.5	9.1
36.0	18.3	18.1	15.5	17.7	17.0	15.6	14.6	15.4	14.6	10.9	11.3	10.9	9.1	9.4	9.0
38.0	17.1	17.0	15.4	16.4	15.8	15.3	14.4	15.2	14.6	10.7	11.1	10.8	8.8	9.2	8.9
40.0	15.9	15.9	15.1	15.4	14.9	14.5	14.2	14.3	14.0	10.4	10.9	10.8	8.6	9.1	8.8
42.0	14.8	14.8	14.5	14.4	14.0	13.7	13.8	13.4	13.2	10.2	10.7	10.7	8.4	8.9	8.7
44.0	14.0	13.9	13.6	13.5	13.2	13.0	13.1	12.7	12.5	9.9	10.6	10.5	8.2	8.6	8.7
46.0	12.8	13.0	11.8	12.6	12.4	12.3	12.3	12.0	11.7	9.7	10.3	10.3	8.0	8.4	8.5
48.0	11.7	12.4	11.1	11.7	11.7	11.6	11.6	11.3	11.1	9.4	10.1	10.2	7.8	8.2	8.3
50.0	10.6	11.3	10.6	10.7	11.0	9.8	10.9	10.7	10.5	9.2	9.9	10.1	7.6	8.1	8.2
54.0	8.8	9.2		8.9	9.5	8.8	9.3	9.4	7.6	8.7	9.3	9.1	7.2	7.6	7.9
58.0				7.3	7.7		7.7	8.2	7.5	7.9	8.3	6.1	6.8	7.3	7.6
62.0				3.2	4.8		6.4	6.7		6.6	7.1	5.9	6.4	7.0	3.7
66.0							3.8	5.2		5.4	5.8		5.3	5.7	3.3
70.0										3.9	4.6		4.3	4.6	
74.0													3.1	2.5	



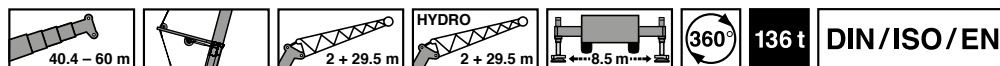


 m	40.4 m + 2.0 m + 23.5 m			45.4 m + 2.0 m + 23.5 m			50.5 m + 2.0 m + 23.5 m			55.6 m + 2.0 m + 23.5 m			60.0 m + 2.0 m + 23.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.0	29.8														
12.0	29.6														
14.0	29.1			21.4			16.6								
16.0	28.6			21.4			16.6			12.7			10.8		
18.0	28.1			21.4			16.6			12.7			10.4		
20.0	27.5	20.7		21.4			16.3			12.7			10.0		
22.0	26.2	19.7		21.1	17.8		15.2	13.4		12.7			9.6		
24.0	24.9	18.9		20.1	17.8		14.3	13.3		12.6	9.9		9.2		
26.0	23.7	18.1	13.0	19.7	17.6		13.8	13.2		11.8	9.7		8.8	9.1	
28.0	22.6	17.3	12.6	19.7	17.0	12.5	13.6	13.2		11.1	9.6		8.3	8.7	
30.0	21.5	16.6	12.3	19.6	16.5	12.3	13.3	13.1	11.0	10.5	9.5	8.2	7.9	8.2	
32.0	20.3	15.9	12.0	19.6	16.0	12.0	13.0	13.0	11.0	10.0	9.4	8.2	7.7	7.7	6.8
34.0	19.1	15.2	11.7	19.3	15.4	11.7	12.6	12.9	11.0	9.5	9.2	8.2	7.6	7.6	6.8
36.0	17.8	14.6	11.4	18.1	14.8	11.5	12.4	12.8	11.0	9.0	9.1	8.2	7.3	7.4	6.8
38.0	16.5	14.1	11.1	15.9	14.3	11.2	12.2	12.6	11.0	8.7	9.0	8.2	7.1	7.3	6.8
40.0	15.4	13.6	11.0	14.6	13.8	11.1	12.0	12.5	10.9	8.5	8.9	8.2	6.9	7.2	6.8
42.0	14.4	13.2	10.8	13.4	13.1	10.9	11.7	12.3	10.8	8.3	8.8	8.2	6.8	7.1	6.7
44.0	13.5	12.7	10.6	12.6	12.3	10.7	11.4	11.7	10.6	8.1	8.6	8.2	6.6	6.9	6.6
46.0	12.7	12.1	10.5	11.9	11.6	10.5	11.2	11.0	10.5	7.9	8.4	8.1	6.4	6.8	6.5
48.0	11.9	11.4	10.4	11.2	10.9	10.4	10.8	10.4	10.1	7.7	8.2	8.0	6.2	6.6	6.4
50.0	11.1	10.7	10.3	10.5	10.3	10.3	10.1	9.7	9.7	7.4	8.1	7.9	6.0	6.5	6.3
54.0	9.9	9.4	8.6	9.3	9.2	9.1	8.9	8.8	8.6	7.1	7.8	7.7	5.7	6.1	6.1
58.0	8.8	8.5	7.7	8.2	8.1	7.1	7.9	7.7	7.8	6.7	7.4	7.5	5.4	5.8	5.9
62.0	4.7	6.8		7.3	7.3	6.3	7.0	6.9	5.6	6.4	6.7	6.7	5.0	5.6	5.7
66.0				4.6	5.6		6.3	6.2	5.3	6.2	5.9	4.3	4.7	5.3	2.6
70.0							4.3	4.7		5.5	5.3	4.1	4.5	5.1	2.3
74.0										4.0	3.9		4.3	4.6	1.9
78.0											2.2		3.1	1.6	

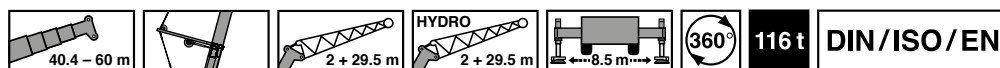


 m	40.4 m + 2.0 m + 23.5 m			45.4 m + 2.0 m + 23.5 m			50.5 m + 2.0 m + 23.5 m			55.6 m + 2.0 m + 23.5 m			60.0 m + 2.0 m + 23.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.0	29.8														
12.0	29.6														
14.0	29.1			21.4			16.6								
16.0	28.6			21.4			16.6			12.7			10.8		
18.0	28.1			21.4			16.6			12.7			10.4		
20.0	27.5	20.7		21.4			16.3			12.7			10.0		
22.0	26.2	19.7		21.1	17.8		15.2	13.4		12.7			9.6		
24.0	24.9	18.9		20.1	17.8		14.3	13.3		12.6	9.9		9.2		
26.0	23.7	18.1	13.0	19.7	17.6		13.8	13.2		11.8	9.7		8.8	9.1	
28.0	22.6	17.3	12.6	19.7	17.0	12.5	13.6	13.2		11.1	9.6		8.3	8.7	
30.0	21.5	16.6	12.3	19.6	16.5	12.3	13.3	13.1	11.0	10.5	9.5	8.2	7.9	8.2	
32.0	20.3	15.9	12.0	19.6	16.0	12.0	13.0	13.0	11.0	10.0	9.4	8.2	7.7	7.7	6.8
34.0	19.1	15.2	11.7	19.3	15.4	11.7	12.6	12.9	11.0	9.5	9.2	8.2	7.6	7.6	6.8
36.0	17.8	14.6	11.4	18.1	14.8	11.5	12.4	12.8	11.0	9.0	9.1	8.2	7.3	7.4	6.8
38.0	16.5	14.1	11.1	15.9	14.3	11.2	12.2	12.6	11.0	8.7	9.0	8.2	7.1	7.3	6.8
40.0	15.4	13.6	11.0	14.6	13.8	11.1	12.0	12.5	10.9	8.5	8.9	8.2	6.9	7.2	6.8
42.0	14.4	13.2	10.8	13.4	13.1	10.9	11.7	12.3	10.8	8.3	8.8	8.2	6.8	7.1	6.7
44.0	13.5	12.7	10.6	12.6	12.3	10.7	11.4	11.7	10.6	8.1	8.6	8.2	6.6	6.9	6.6
46.0	12.7	12.1	10.5	11.9	11.6	10.5	11.2	11.0	10.5	7.9	8.4	8.1	6.4	6.8	6.5
48.0	11.9	11.4	10.4	11.2	10.9	10.4	10.8	10.4	10.1	7.7	8.2	8.0	6.2	6.6	6.4
50.0	11.1	10.7	10.3	10.5	10.3	10.3	10.1	9.7	9.7	7.4	8.1	7.9	6.0	6.5	6.3
54.0	9.3	9.4	8.6	9.3	9.2	9.1	8.9	8.8	8.6	7.1	7.8	7.7	5.7	6.1	6.1
58.0	7.7	8.3	7.7	7.7	8.1	7.1	7.9	7.7	7.8	6.7	7.4	7.5	5.4	5.8	5.9
62.0	4.7	6.7		6.4	6.9	6.3	6.6	6.9	5.6	6.4	6.7	6.7	5.0	5.6	5.7
66.0				4.6	5.5		5.4	5.9	5.3	5.6	5.9	4.3	4.7	5.3	2.6
70.0							4.3	4.7		4.5	5.0	4.1	4.3	4.9	2.3
74.0										3.6	3.9		3.4	3.9	1.9
78.0											2.2		2.6	1.6	

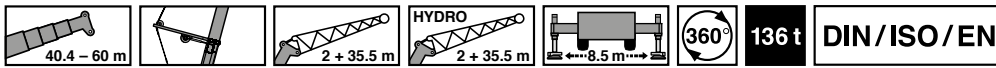
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



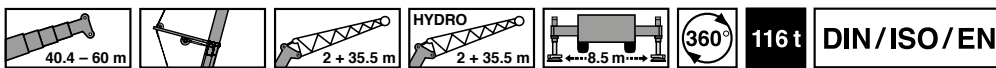
m	40.4 m + 2.0 m + 29.5 m			45.4 m + 2.0 m + 29.5 m			50.5 m + 2.0 m + 29.5 m			55.6 m + 2.0 m + 29.5 m			60.0 m + 2.0 m + 29.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	22.7														
14.0	22.6			16.1											
16.0	22.5			16.1			12.4			8.7					
18.0	22.3			16.1			12.4			8.6			8.0		
20.0	22.2			16.1			12.4			8.6			7.9		
22.0	22.0			16.1			12.4			8.6			7.8		
24.0	20.7	15.5		16.1	14.0		12.4			8.6			7.6		
26.0	19.4	14.7		15.7	13.9		11.9	10.3		8.6			7.5		
28.0	18.4	14.0		15.3	13.8		11.3	10.3		8.4	8.1		7.3		
30.0	17.4	13.4		14.9	13.4		11.1	10.3		8.3	7.7		7.1	6.9	
32.0	16.6	12.8	9.5	14.5	12.9	9.4	11.0	10.3		8.1	7.3		7.0	6.9	
34.0	15.9	12.2	9.1	14.4	12.3	9.2	10.9	10.2	8.0	7.9	7.2		6.8	6.8	
36.0	15.2	11.7	8.9	14.2	11.8	8.9	10.7	10.1	8.0	7.7	7.1	6.0	6.6	6.7	
38.0	14.6	11.3	8.7	13.7	11.4	8.7	10.6	10.1	8.0	7.5	7.1	6.0	6.5	6.6	5.9
40.0	13.9	10.8	8.5	13.2	11.0	8.6	10.4	10.0	8.0	7.3	7.0	6.0	6.3	6.5	5.8
42.0	13.2	10.4	8.3	12.7	10.6	8.4	10.3	9.9	8.0	7.1	6.9	6.0	6.2	6.4	5.8
44.0	12.5	10.1	8.1	11.9	10.2	8.2	10.1	9.8	8.0	6.8	6.8	6.0	6.0	6.3	5.8
46.0	11.7	9.7	8.0	11.2	9.9	8.1	9.9	9.6	8.0	6.5	6.7	6.0	5.8	6.1	5.7
48.0	11.0	9.4	7.8	10.5	9.6	7.9	9.7	9.5	7.8	6.2	6.6	6.0	5.6	6.0	5.7
50.0	10.3	9.1	7.7	9.7	9.3	7.7	9.6	9.2	7.7	5.9	6.4	5.9	5.4	5.8	5.6
54.0	9.1	8.6	7.5	8.7	8.6	7.5	9.5	8.2	7.5	5.6	6.1	5.8	5.0	5.6	5.4
58.0	8.1	8.0	6.1	7.7	7.6	7.3	7.8	7.2	7.1	5.3	5.9	5.7	4.8	5.2	5.2
62.0	7.3	7.2	6.1	6.7	6.7	5.6	6.5	6.5	6.4	5.0	5.6	5.5	4.5	4.9	5.0
66.0	5.3	5.4		6.0	6.0	4.9	5.7	5.8	4.1	4.7	5.4	5.4	4.1	4.7	4.8
70.0				4.7	5.4		5.1	5.1	4.0	4.4	4.9	3.0	3.9	4.5	4.6
74.0					3.0		4.2	4.5		4.3	4.3	2.8	3.6	4.1	
78.0								3.0		3.8	3.7	2.7	3.4	3.6	
82.0										1.8	2.4		3.0	3.1	



m	40.4 m + 2.0 m + 29.5 m			45.4 m + 2.0 m + 29.5 m			50.5 m + 2.0 m + 29.5 m			55.6 m + 2.0 m + 29.5 m			60.0 m + 2.0 m + 29.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	22.7														
14.0	22.6			16.1											
16.0	22.5			16.1			12.4			8.7					
18.0	22.3			16.1			12.4			8.6			8.0		
20.0	22.2			16.1			12.4			8.6			7.9		
22.0	22.0			16.1			12.4			8.6			7.8		
24.0	20.7	15.5		16.1	14.0		12.4			8.6			7.6		
26.0	19.4	14.7		15.7	13.9		11.9	10.3		8.6			7.5		
28.0	18.4	14.0		15.3	13.8		11.3	10.3		8.4	8.1		7.3		
30.0	17.4	13.4		14.9	13.4		11.1	10.3		8.3	7.7		7.1	6.9	
32.0	16.6	12.8	9.5	14.5	12.9	9.4	11.0	10.3		8.1	7.3		7.0	6.9	
34.0	15.9	12.2	9.1	14.4	12.3	9.2	10.9	10.2	8.0	7.9	7.2		6.8	6.8	
36.0	15.2	11.7	8.9	14.2	11.8	8.9	10.7	10.1	8.0	7.7	7.1	6.0	6.6	6.7	
38.0	14.6	11.3	8.7	13.7	11.4	8.7	10.6	10.1	8.0	7.5	7.1	6.0	6.5	6.6	5.9
40.0	13.9	10.8	8.5	13.2	11.0	8.6	10.4	10.0	8.0	7.3	7.0	6.0	6.3	6.5	5.8
42.0	13.2	10.4	8.3	12.7	10.6	8.4	10.3	9.9	8.0	7.1	6.9	6.0	6.2	6.4	5.8
44.0	12.5	10.1	8.1	11.9	10.2	8.2	10.1	9.8	8.0	6.8	6.8	6.0	6.0	6.3	5.8
46.0	11.7	9.7	8.0	11.2	9.9	8.1	9.9	9.6	8.0	6.5	6.7	6.0	5.8	6.1	5.7
48.0	11.0	9.4	7.8	10.5	9.6	7.9	9.7	9.5	7.8	6.2	6.6	6.0	5.6	6.0	5.7
50.0	10.3	9.1	7.7	9.7	9.3	7.7	9.6	9.2	7.7	5.9	6.4	5.9	5.4	5.8	5.6
54.0	9.1	8.6	7.5	8.7	8.6	7.5	9.5	8.2	7.5	5.6	6.1	5.8	5.0	5.6	5.4
58.0	8.0	8.0	6.1	7.7	7.6	7.3	7.8	7.2	7.1	5.3	5.9	5.7	4.8	5.2	5.2
62.0	6.6	7.2	6.1	6.6	6.7	5.6	6.5	6.5	6.4	5.0	5.6	5.5	4.5	4.9	5.0
66.0	5.3	5.4		5.4	6.0	4.9	5.5	5.8	4.1	4.7	5.4	5.4	4.1	4.7	4.8
70.0				4.4	4.8		4.5	5.1	4.0	4.4	4.9	3.0	3.9	4.5	4.6
74.0					3.0		3.6	4.0		3.8	4.3	2.8	3.6	4.1	
78.0								3.0		3.0	3.4	2.7	2.8	3.3	
82.0										1.8	2.4		2.0	2.5	

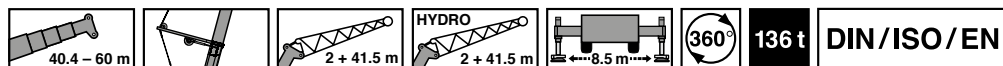


m	40.4 m + 2.0 m + 35.5 m			45.4 m + 2.0 m + 35.5 m			50.5 m + 2.0 m + 35.5 m			55.6 m + 2.0 m + 35.5 m			60.0 m + 2.0 m + 35.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	18.4														
16.0	18.4			13.0											
18.0	18.2			13.0			9.7			6.6					
20.0	18.1			13.0			9.5			6.6			5.7		
22.0	18.1			13.0			9.4			6.6			5.7		
24.0	18.1			13.0			9.3			6.6			5.7		
26.0	17.1	12.5		12.9			9.1			6.6			5.7		
28.0	16.1	11.9		12.7	11.0		9.0			6.6			5.7		
30.0	15.3	11.3		12.5	11.0		8.9	8.0		6.6			5.7		
32.0	14.4	10.8		12.1	10.8		8.8	8.0		6.6	6.7		5.6	5.4	
34.0	13.8	10.3		11.8	10.3		8.8	8.0		6.6	6.6		5.5	5.4	
36.0	13.1	9.8	7.3	11.7	9.9		8.5	8.0		6.6	6.6		5.4	5.3	
38.0	12.5	9.4	7.1	11.6	9.5	7.1	8.3	8.0		6.5	6.5		5.2	5.3	
40.0	11.8	9.0	6.9	11.4	9.1	6.9	8.1	8.0	5.9	6.4	6.5		5.1	5.2	
42.0	11.2	8.7	6.8	11.1	8.8	6.8	7.9	7.9	5.9	6.2	6.4	5.3	5.0	5.1	4.3
44.0	10.6	8.3	6.6	10.7	8.4	6.6	7.7	7.9	5.9	6.0	6.4	5.2	4.9	5.0	4.3
46.0	10.1	8.0	6.4	10.3	8.1	6.5	7.6	7.8	5.9	5.9	6.2	5.2	4.7	4.9	4.3
48.0	9.7	7.7	6.2	9.9	7.8	6.3	7.4	7.7	5.9	5.7	6.0	5.2	4.6	4.8	4.3
50.0	9.2	7.5	6.1	9.5	7.6	6.2	7.2	7.5	5.9	5.5	5.9	5.2	4.4	4.7	4.2
54.0	8.4	7.0	5.9	8.3	7.1	5.9	6.8	7.3	5.9	5.2	5.7	5.1	4.1	4.4	4.0
58.0	7.8	6.6	5.6	7.3	6.7	5.7	6.5	6.9	5.7	4.8	5.4	5.0	3.7	4.2	3.9
62.0	6.9	6.2	5.5	6.5	6.3	5.4	6.2	6.1	5.5	4.6	5.2	4.9	3.5	4.0	3.8
66.0	6.1	5.9	4.3	5.8	5.8	5.3	5.5	5.4	5.3	4.4	4.9	4.8	3.2	3.8	3.7
70.0	5.3	5.4	4.3	5.0	5.0	3.9	4.7	4.8	4.8	4.1	4.5	4.5	3.0	3.5	3.6
74.0	2.2	3.9		4.5	4.5	3.4	4.2	4.3	2.9	3.8	3.9	2.0	2.8	3.3	3.6
78.0				2.1	2.9		3.7	3.7	2.7	3.6	3.4	1.8	2.7	3.1	
82.0							2.2	2.3		3.1	3.0	1.7	2.5	2.8	
86.0										2.0	1.6		2.3	2.5	

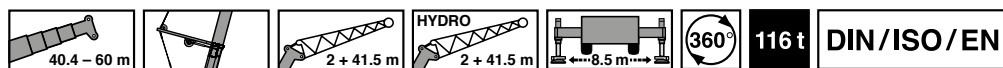


m	40.4 m + 2.0 m + 35.5 m			45.4 m + 2.0 m + 35.5 m			50.5 m + 2.0 m + 35.5 m			55.6 m + 2.0 m + 35.5 m			60.0 m + 2.0 m + 35.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	18.4														
16.0	18.4			13.0											
18.0	18.2			13.0			9.7			6.6					
20.0	18.1			13.0			9.5			6.6			5.7		
22.0	18.1			13.0			9.4			6.6			5.7		
24.0	18.1			13.0			9.3			6.6			5.7		
26.0	17.1	12.5		12.9			9.1			6.6			5.7		
28.0	16.1	11.9		12.7	11.0		9.0			6.6			5.7		
30.0	15.3	11.3		12.5	11.0		8.9	8.0		6.6			5.7		
32.0	14.4	10.8		12.1	10.8		8.8	8.0		6.6	6.7		5.6	5.4	
34.0	13.8	10.3		11.8	10.3		8.8	8.0		6.6	6.6		5.5	5.4	
36.0	13.1	9.8	7.3	11.7	9.9		8.5	8.0		6.6	6.6		5.4	5.3	
38.0	12.5	9.4	7.1	11.6	9.5	7.1	8.3	8.0		6.5	6.5		5.2	5.3	
40.0	11.8	9.0	6.9	11.4	9.1	6.9	8.1	8.0	5.9	6.4	6.5		5.1	5.2	
42.0	11.2	8.7	6.8	11.1	8.8	6.8	7.9	7.9	5.9	6.2	6.4	5.3	5.0	5.1	4.3
44.0	10.6	8.3	6.6	10.7	8.4	6.6	7.7	7.9	5.9	6.0	6.4	5.2	4.9	5.0	4.3
46.0	10.1	8.0	6.4	10.3	8.1	6.5	7.6	7.8	5.9	5.9	6.2	5.2	4.7	4.9	4.3
48.0	9.7	7.7	6.2	9.9	7.8	6.3	7.4	7.7	5.9	5.7	6.0	5.2	4.6	4.8	4.3
50.0	9.2	7.5	6.1	9.5	7.6	6.2	7.2	7.5	5.9	5.5	5.9	5.2	4.4	4.7	4.2
54.0	8.4	7.0	5.9	8.3	7.1	5.9	6.8	7.3	5.9	5.2	5.7	5.1	4.1	4.4	4.0
58.0	7.8	6.6	5.6	7.3	6.7	5.7	6.5	6.9	5.7	4.8	5.4	5.0	3.7	4.2	3.9
62.0	6.9	6.2	5.5	6.5	6.3	5.4	6.2	6.1	5.5	4.6	5.2	4.9	3.5	4.0	3.8
66.0	5.8	5.9	4.3	5.7	5.8	5.3	5.5	5.4	5.3	4.4	4.9	4.8	3.2	3.8	3.7
70.0	4.8	5.4	4.3	4.6	5.0	3.9	4.7	4.8	4.8	4.1	4.5	4.5	3.0	3.5	3.6
74.0	2.2	3.9		3.7	4.3	3.4	3.9	4.3	2.9	3.8	3.9	2.0	2.8	3.3	3.6
78.0				2.1	2.9		3.1	3.7	2.7	3.1	3.4	1.8	2.7	3.1	
82.0							2.2	2.3		2.4	3.0	1.7	2.2	2.8	
86.0										1.7	1.6		1.5	2.1	

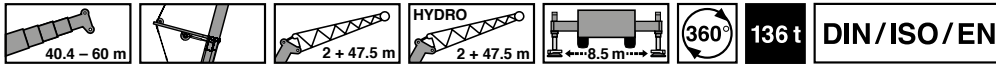
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



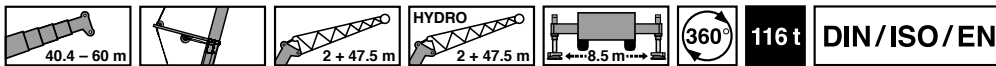
m	40.4 m + 2.0 m + 41.5 m			45.4 m + 2.0 m + 41.5 m			50.5 m + 2.0 m + 41.5 m			55.6 m + 2.0 m + 41.5 m			60.0 m + 2.0 m + 41.5 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16.0	11.8			9.5												
18.0	11.8			9.5			7.2									
20.0	11.8			9.5			7.2				5.4					
22.0	11.8			9.5			7.2				5.4			4.6		
24.0	11.8			9.5			7.2				5.4			4.6		
26.0	11.8			9.5			7.2				5.4			4.6		
28.0	11.8			9.5			7.2				5.4			4.5		
30.0	11.8	9.9		9.5			7.2				5.4			4.4		
32.0	11.8	9.3		9.5	8.7		7.2				5.4			4.3		
34.0	11.8	8.9		9.5	8.7		7.2	7.2			5.4			4.2		
36.0	11.3	8.4		9.5	8.5		7.2	7.2			5.3	5.0		4.1	3.9	
38.0	10.8	8.0		9.5	8.1		7.2	7.2			5.2	5.0		3.9	3.8	
40.0	10.3	7.7		9.5	7.7		7.2	7.2			5.0	4.9		3.8	3.8	
42.0	9.8	7.3	5.2	9.4	7.4		7.2	7.1			4.9	4.9		3.7	3.7	
44.0	9.3	7.0	5.0	9.1	7.1	5.0	7.2	7.0			4.7	4.8		3.5	3.6	
46.0	8.8	6.7	4.9	8.7	6.8	4.9	7.1	6.8	4.8		4.6	4.7		3.4	3.5	
48.0	8.3	6.4	4.7	8.3	6.5	4.8	6.8	6.5	4.7	4.4	4.6	3.5		3.3	3.5	2.7
50.0	7.9	6.2	4.6	8.0	6.3	4.6	6.6	6.3	4.6	4.2	4.5	3.5	3.5	3.2	3.4	2.7
54.0	7.2	5.7	4.4	7.4	5.8	4.5	6.2	5.8	4.5	3.9	4.3	3.5	2.9	3.1	2.6	
58.0	6.5	5.3	4.2	6.7	5.4	4.2	5.9	5.4	4.3	3.6	4.0	3.4	2.6	2.9	2.5	
62.0	5.9	4.9	4.0	5.9	5.0	4.1	5.5	5.1	4.1	3.4	3.9	3.3	2.4	2.8	2.4	
66.0	5.4	4.6	3.9	5.2	4.7	3.9	4.9	4.7	3.9	3.2	3.7	3.3	2.2	2.6	2.3	
70.0	4.9	4.3	2.6	4.5	4.4	3.7	4.2	4.2	3.7	3.0	3.4	3.2	2.0	2.4	2.2	
74.0	4.3	4.1	2.6	3.8	3.9	2.5	3.6	3.7	3.5	2.8	3.2	3.2	1.7	2.3	2.2	
78.0	2.7	2.7		3.3	3.4	2.3	3.1	3.1	1.5	2.6	2.9	2.9				
82.0				2.3	2.9	1.8	2.7	2.6		2.3	2.4					
86.0							1.9	2.2		2.0	2.0					
90.0										1.6	1.7					



m	40.4 m + 2.0 m + 41.5 m			45.4 m + 2.0 m + 41.5 m			50.5 m + 2.0 m + 41.5 m			55.6 m + 2.0 m + 41.5 m			60.0 m + 2.0 m + 41.5 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16.0	11.8			9.5												
18.0	11.8			9.5			7.2									
20.0	11.8			9.5			7.2				5.4					
22.0	11.8			9.5			7.2				5.4			4.6		
24.0	11.8			9.5			7.2				5.4			4.6		
26.0	11.8			9.5			7.2				5.4			4.6		
28.0	11.8			9.5			7.2				5.4			4.5		
30.0	11.8	9.9		9.5			7.2				5.4			4.4		
32.0	11.8	9.3		9.5	8.7		7.2				5.4			4.3		
34.0	11.8	8.9		9.5	8.7		7.2	7.2			5.4			4.2		
36.0	11.3	8.4		9.5	8.5		7.2	7.2			5.3	5.0		4.1	3.9	
38.0	10.8	8.0		9.5	8.1		7.2	7.2			5.2	5.0		3.9	3.8	
40.0	10.3	7.7		9.5	7.7		7.2	7.2			5.0	4.9		3.8	3.8	
42.0	9.8	7.3	5.2	9.4	7.4		7.2	7.1			4.9	4.9		3.7	3.7	
44.0	9.3	7.0	5.0	9.1	7.1	5.0	7.2	7.0			4.7	4.8		3.5	3.6	
46.0	8.8	6.7	4.9	8.7	6.8	4.9	7.1	6.8	4.8		4.6	4.7		3.4	3.5	
48.0	8.3	6.4	4.7	8.3	6.5	4.8	6.8	6.5	4.7	4.4	4.6	3.5		3.3	3.5	2.7
50.0	7.9	6.2	4.6	8.0	6.3	4.6	6.6	6.3	4.6	4.2	4.5	3.5	3.5	3.2	3.4	2.7
54.0	7.2	5.7	4.4	7.4	5.8	4.5	6.2	5.8	4.5	3.9	4.3	3.5	2.9	3.1	2.6	
58.0	6.5	5.3	4.2	6.7	5.4	4.2	5.9	5.4	4.3	3.6	4.0	3.4	2.6	2.9	2.5	
62.0	5.9	4.9	4.0	5.9	5.0	4.1	5.5	5.1	4.1	3.4	3.9	3.3	2.4	2.8	2.4	
66.0	5.4	4.6	3.9	5.2	4.7	3.9	4.9	4.7	3.9	3.2	3.7	3.3	2.2	2.6	2.3	
70.0	4.8	4.3	2.6	4.5	4.4	3.7	4.2	4.2	3.7	3.0	3.4	3.2	2.0	2.4	2.2	
74.0	3.9	4.1	2.6	3.7	3.9	2.5	3.6	3.7	3.5	2.8	3.2	3.2	1.7	2.3	2.2	
78.0	2.7	2.7		2.9	3.4	2.3	2.9	3.1	1.5	2.6	2.9	2.9				
82.0				2.2	2.7	1.8	2.2	2.6		2.2	2.4					
86.0							1.5	2.0		1.5	2.0					



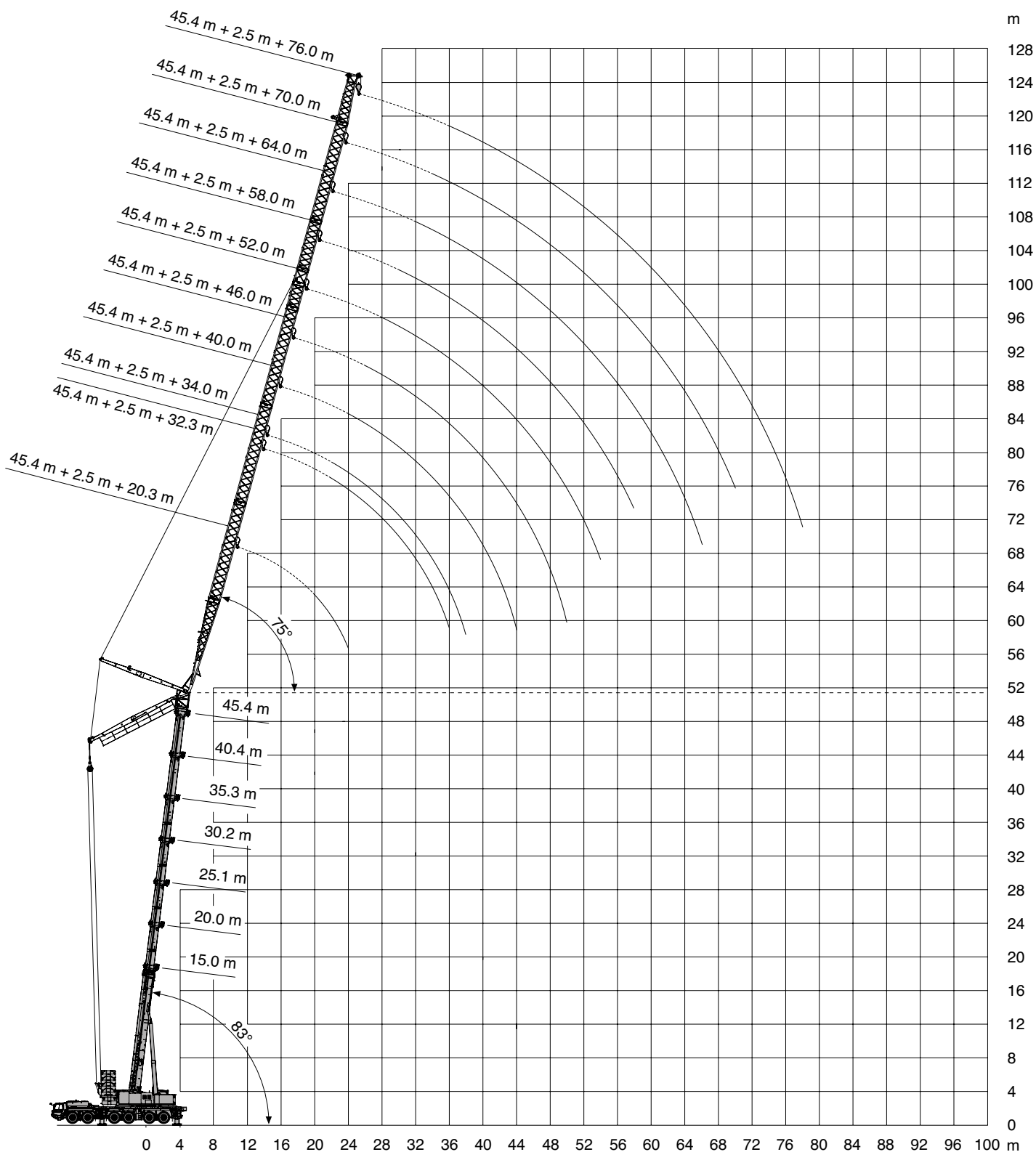
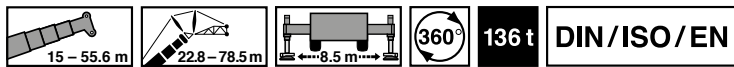
m	40.4 m + 2.0 m + 47.5 m			45.4 m + 2.0 m + 47.5 m			50.5 m + 2.0 m + 47.5 m			55.6 m + 2.0 m + 47.5 m			60.0 m + 2.0 m + 47.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	9.7														
18.0	9.7			7.8											
20.0	9.7			7.8			6.0								
22.0	9.7			7.8			6.0			4.8					
24.0	9.7			7.8			6.0			4.7			3.6		
26.0	9.7			7.8			6.0			4.6			3.5		
28.0	9.7			7.8			6.0			4.5			3.4		
30.0	9.7			7.8			6.0			4.4			3.3		
32.0	9.7			7.8			6.0			4.4			3.2		
34.0	9.7	7.4		7.8			6.0			4.3			3.1		
36.0	9.7	7.0		7.8	7.0		6.0			4.2			3.0		
38.0	9.4	6.6		7.8	6.6		6.0	5.7		4.1			2.9		
40.0	8.8	6.3		7.8	6.3		6.0	5.7		4.0	3.7		2.9	2.7	
42.0	8.3	6.0		7.8	6.0		6.0	5.6		3.9	3.7		2.8	2.7	
44.0	7.8	5.7		7.8	5.7		6.0	5.6		3.8	3.6		2.7	2.6	
46.0	7.4	5.4		7.6	5.5		5.8	5.4		3.6	3.5		2.6	2.6	
48.0	6.9	5.1	2.2	7.2	5.2		5.6	5.2		3.5	3.5		2.4	2.5	
50.0	6.6	4.9	2.1	6.8	5.0	2.1	5.5	4.9		3.4	3.4		2.3	2.4	
54.0	5.9	4.5	1.9	6.1	4.5	1.9	5.2	4.5	1.8	3.0	3.3		2.0	2.3	
58.0	5.3	4.1	1.7	5.5	4.2	1.7	4.8	4.2	1.5	2.8	3.1		1.8	2.1	
62.0	4.7	3.7	1.5	5.0	3.8	1.6	4.5	3.8		2.5	2.9		1.7	1.9	
66.0	4.3	3.4		4.5	3.5		4.3	3.5		2.4	2.7		1.5	1.7	
70.0	3.9	3.1		4.1	3.2		4.0	3.3		2.2	2.5				
74.0	3.5	2.9		3.6	3.0		3.4	3.0		1.9	2.4				
78.0	3.2	2.7		3.1	2.8		2.9	2.8		1.7	2.2				
82.0	2.7	2.5		2.7	2.6		2.5	2.5		1.6	2.1				
86.0				2.1	2.3										

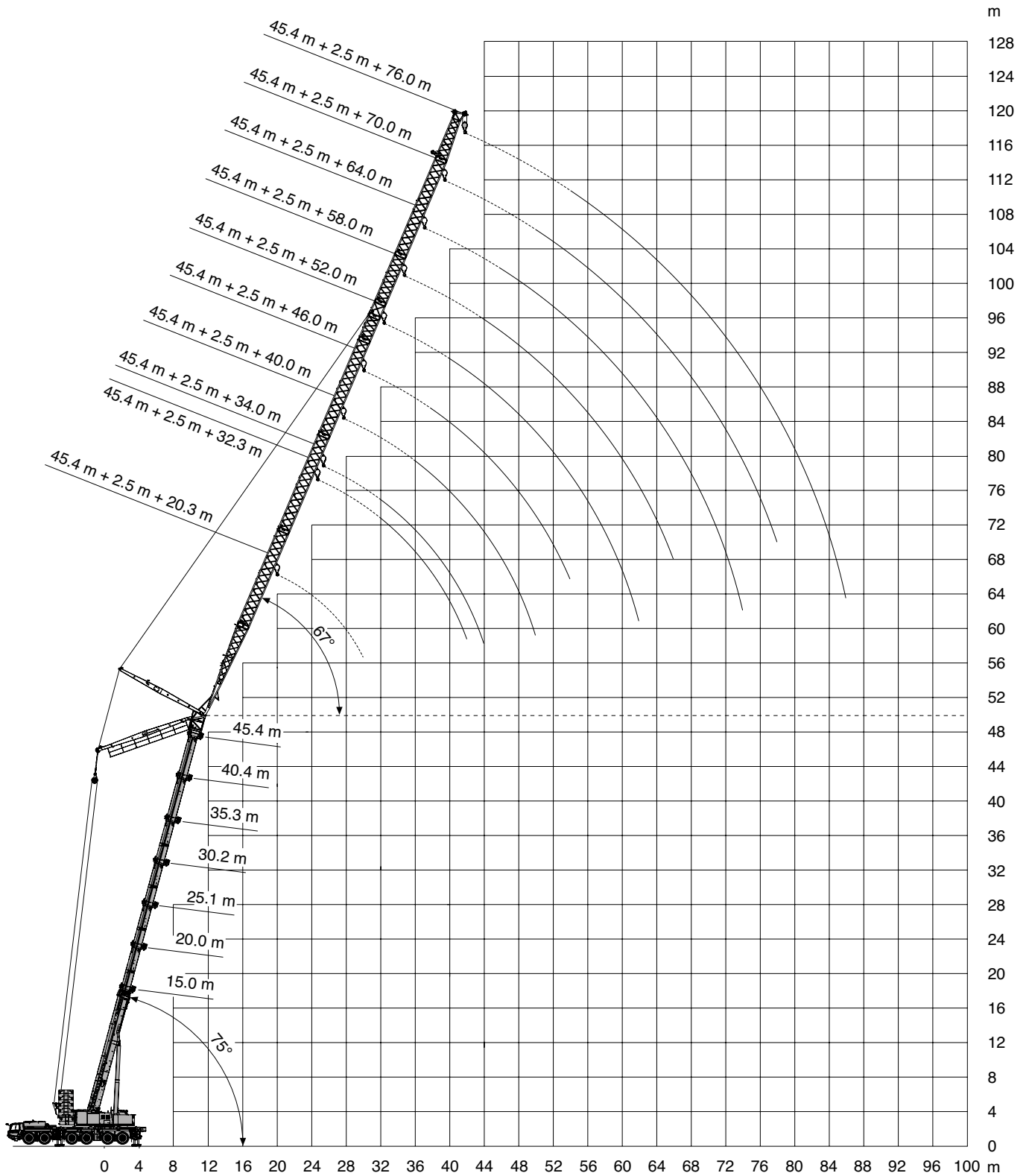
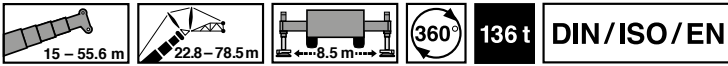


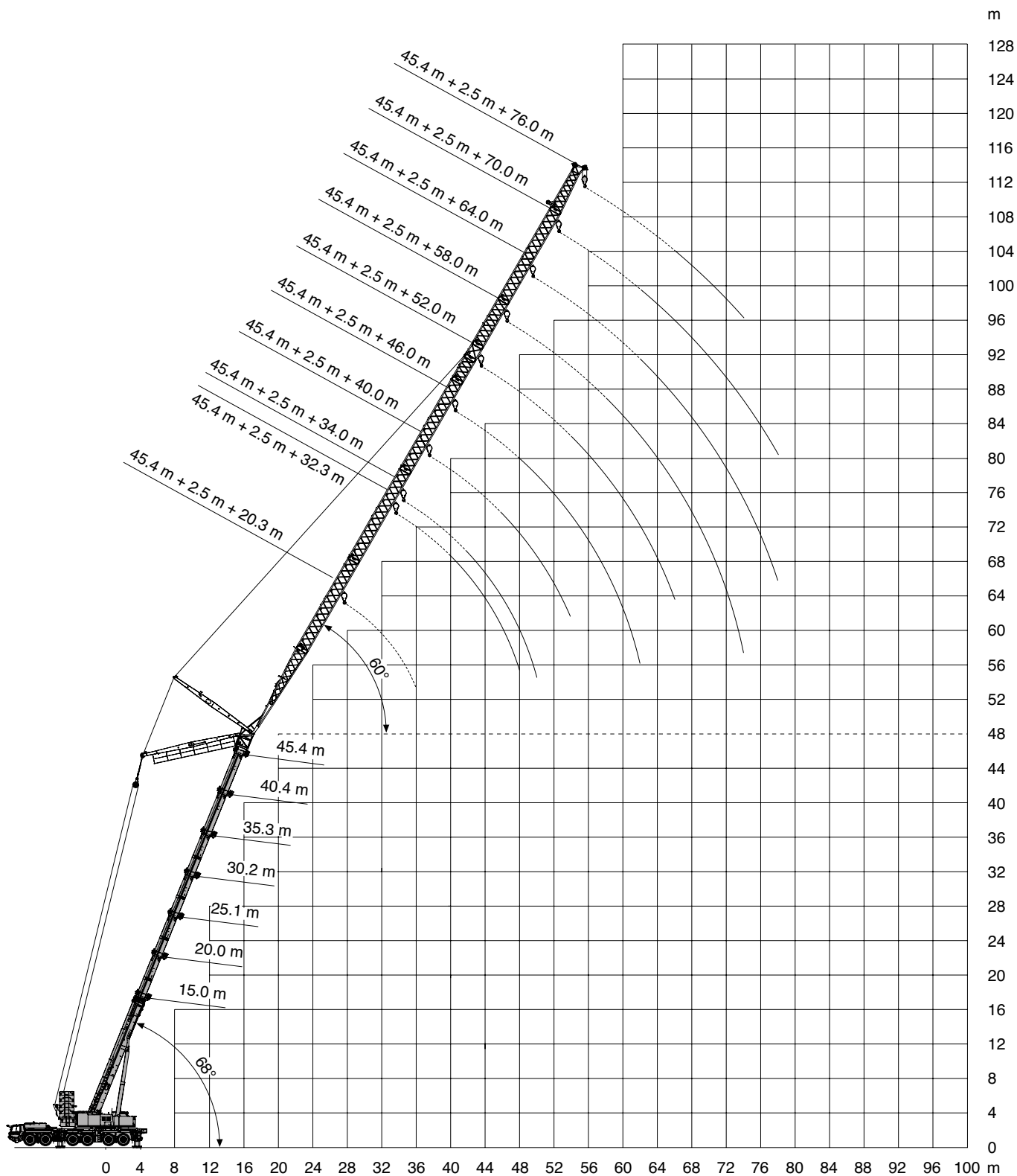
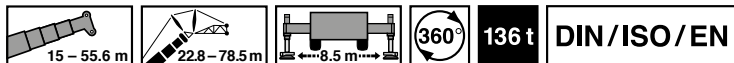
m	40.4 m + 2.0 m + 47.5 m			45.4 m + 2.0 m + 47.5 m			50.5 m + 2.0 m + 47.5 m			55.6 m + 2.0 m + 47.5 m			60.0 m + 2.0 m + 47.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.0	9.7														
18.0	9.7			7.8											
20.0	9.7			7.8			6.0								
22.0	9.7			7.8			6.0			4.8					
24.0	9.7			7.8			6.0			4.7			3.6		
26.0	9.7			7.8			6.0			4.6			3.5		
28.0	9.7			7.8			6.0			4.5			3.4		
30.0	9.7			7.8			6.0			4.4			3.3		
32.0	9.7			7.8			6.0			4.4			3.2		
34.0	9.7	7.4		7.8			6.0			4.3			3.1		
36.0	9.7	7.0		7.8	7.0		6.0			4.2			3.0		
38.0	9.4	6.6		7.8	6.6		6.0	5.7		4.1			2.9		
40.0	8.8	6.3		7.8	6.3		6.0	5.7		4.0	3.7		2.9	2.7	
42.0	8.3	6.0		7.8	6.0		6.0	5.6		3.9	3.7		2.8	2.7	
44.0	7.8	5.7		7.8	5.7		6.0	5.6		3.8	3.6		2.7	2.6	
46.0	7.4	5.4		7.6	5.5		5.8	5.4		3.6	3.5		2.6	2.6	
48.0	6.9	5.1	2.2	7.2	5.2		5.6	5.2		3.5	3.5		2.4	2.5	
50.0	6.6	4.9	2.1	6.8	5.0	2.1	5.5	4.9		3.4	3.4		2.3	2.4	
54.0	5.9	4.5	1.9	6.1	4.5	1.9	5.2	4.5	1.8	3.0	3.3		2.0	2.3	
58.0	5.3	4.1	1.7	5.5	4.2	1.7	4.8	4.2	1.5	2.8	3.1		1.8	2.1	
62.0	4.7	3.7	1.5	5.0	3.8	1.6	4.5	3.8		2.5	2.9		1.7	1.9	
66.0	4.3	3.4		4.5	3.5		4.3	3.5		2.4	2.7		1.5	1.7	
70.0	3.9	3.1		4.1	3.2		4.0	3.3		2.2	2.5				
74.0	3.5	2.9		3.6	3.0		3.4	3.0		1.9	2.4				
78.0	3.1	2.7		2.9	2.8		2.9	2.8		1.7	2.2				
82.0	2.4	2.5		2.2	2.6		2.2	2.5		1.6	2.1				
86.0				1.5	2.1										

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона

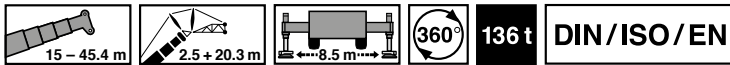


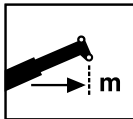


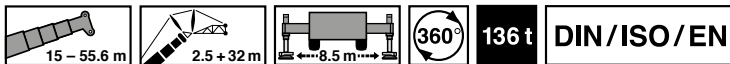


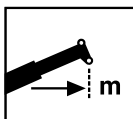


Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

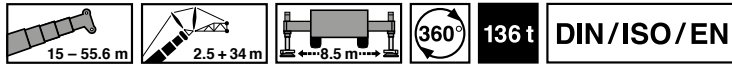


 m	15.0 m + 2.5 m + 20.3 m			25.1 m + 2.5 m + 20.3 m			35.3 m + 2.5 m + 20.3 m			40.4 m + 2.5 m + 20.3 m			45.4 m + 2.5 m + 20.3 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
14.0				65.6											
16.0		67.4		59.2											
18.0		61.0		54.0			45.7			39.0					
20.0		55.8	56.5	47.1	47.6		41.6			36.6			30.7		
22.0		51.3	52.0	38.1	43.5		38.4			33.6			28.1		
24.0			48.1		40.3				31.9	31.3			24.1		
26.0					38.2	35.3			29.4				25.8		
28.0						32.9			27.4				22.1		
30.0												21.4	20.3		17.7
32.0												19.6			
34.0													16.3		
36.0															13.8

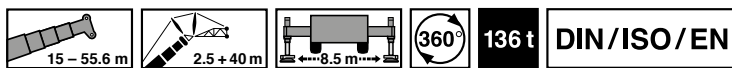


 m	15.0 m + 2.5 m + 32.3 m			25.1 m + 2.5 m + 32.3 m			35.3 m + 2.5 m + 32.3 m			45.4 m + 2.5 m + 32.3 m					
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°			
12.0	61.2														
14.0	59.6			43.5											
16.0	57.2			42.6											
18.0	52.2			41.8			32.4								
20.0	48.0	48.8		41.1			31.9								
22.0	44.4	45.1		39.5	38.8		31.5			17.8					
24.0	41.3	41.9	42.3	36.9	36.1		31.0			17.7					
26.0	38.6	39.2	39.4	34.6	33.8		30.4			17.4					
28.0	34.4	36.8	37.0	32.6	31.8		28.7	26.1		17.1					
30.0	28.6	34.6	34.8	30.8	29.9	29.1	27.1	22.4		16.9					
32.0	20.4	32.7	32.9	29.2	28.3	27.5	22.7	20.3		16.1	15.3				
34.0		24.9	31.1	21.9	26.9	23.8	21.2	19.0	17.8	15.1	14.2				
36.0			29.4		23.0	21.7		17.7	16.5	14.2	13.2				
38.0					22.2	20.4		16.7	15.4		12.3				
40.0						19.3		15.8	14.4		11.5	11.0			
42.0									13.5		10.8	10.3			
44.0									12.7			9.6			
46.0												9.0			
48.0												8.4			

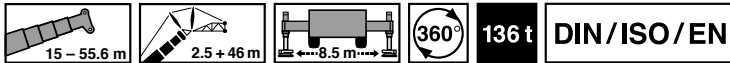
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация




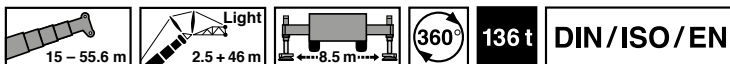
m	15.0 m + 2.5 m + 34.0 m			25.1 m + 2.5 m + 34.0 m			35.3 m + 2.5 m + 34.0 m			45.4 m + 2.5 m + 34.0 m			55.6 m + 2.5 m + 34.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
14.0	53.2														
16.0	48.3			40.1											
18.0	44.1			39.4			29.5								
20.0	40.6	44.5		38.6			29.1								
22.0	37.6	41.1		37.9			28.7			17.0					
24.0	35.0	38.0		35.6	35.1		28.4			16.5			9.2		
26.0	32.7	35.4	37.9	33.5	32.9		27.7			16.2			9.0		
28.0	30.7	33.0	35.3	31.6	30.9		25.3	22.1		16.1			8.7		
30.0	29.0	31.0	33.0	29.8	29.1	28.0	21.6	20.4		15.9			8.6		
32.0	24.2	29.2	31.0	28.2	27.5	25.4	20.4	19.0		15.8	15.1		8.5		
34.0		27.6	29.2	22.5	23.3	21.9	19.4	17.7		15.2	14.0		8.5		
36.0		21.2	27.5		22.0	20.5	18.7	16.5	15.7	14.1	13.1		8.5		
38.0			22.9		20.9	19.2		15.5	14.6	13.3	12.2		8.5	8.0	
40.0					20.1	18.1		14.6	13.6		11.4		8.1	7.4	
42.0						17.3		13.9	12.7		10.7	10.1		6.9	
44.0									11.9		10.1	9.5		6.4	
46.0									11.2			8.9		6.0	
48.0												8.3		5.6	5.0
50.0												7.8			4.7
54.0															4.0




m	15.0 m + 2.5 m + 40.0 m			25.1 m + 2.5 m + 40.0 m			35.3 m + 2.5 m + 40.0 m			45.4 m + 2.5 m + 40.0 m			55.6 m + 2.5 m + 40.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
14.0	36.7														
16.0	33.2														
18.0	30.3			30.3											
20.0	27.5			28.2			21.8								
22.0	24.4	27.5		26.0			21.4								
24.0	22.1	24.3		23.1			21.0			14.5					
26.0	20.3	22.3		21.0	24.9		20.4			14.3			9.4		
28.0	18.8	20.6	22.2	19.5	22.2		19.6			14.1			9.3		
30.0	17.5	19.0	20.5	18.1	20.7		18.5	20.4		14.1			9.2		
32.0	16.3	17.7	19.0	16.9	19.2		17.4	19.9		14.0			9.1		
34.0	15.2	16.5	17.6	15.8	17.9	19.9	16.4	19.0		13.9			8.9		
36.0	14.3	15.4	16.4	14.8	16.7	18.6	15.4	17.9		13.8	13.2		8.7		
38.0	13.4	14.4	15.4	13.9	15.7	17.3	14.5	16.8		13.5	12.3		8.4		
40.0		13.5	14.4	13.1	14.7	16.2	13.7	15.8	14.5	12.6	11.5		7.9	7.2	
42.0		12.8	13.5		13.8	15.2	12.9	14.9	13.6	11.9	10.8		7.4	6.7	
44.0					13.0	14.3		14.1	12.8	11.4	10.2		7.0	6.2	
46.0						13.4		13.4	12.1		9.6	8.9		5.8	
48.0						12.7		12.7	11.4		9.1	8.4		5.5	
50.0									10.8		8.6	7.9		5.1	4.5
54.0												7.0		4.5	3.9
58.0															3.4

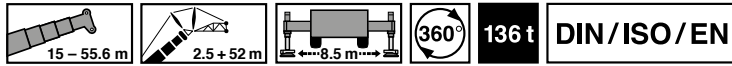


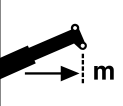
 m	15.0 m + 2.5 m + 46.0 m			25.1 m + 2.5 m + 46.0 m			35.3 m + 2.5 m + 46.0 m			45.4 m + 2.5 m + 46.0 m			55.6 m + 2.5 m + 46.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
16.0	36.7														
18.0	35.8														
20.0	35.1			23.7											
22.0	34.3			23.2			17.9								
24.0	33.6			22.8			17.6								
26.0	32.5	32.7		22.4			17.4			12.9					
28.0	30.6	30.8		22.0			17.1			12.8			7.7		
30.0	29.0	29.2		21.7	21.8		16.9			12.7			7.5		
32.0	27.5	27.6	27.5	21.4	21.5		16.6			12.5			7.5		
34.0	26.2	26.3	26.1	21.1	21.1		16.4	16.6		12.3			7.4		
36.0	25.0	25.0	24.9	20.8	20.8		16.2	16.2		12.2			7.3		
38.0	22.1	23.9	23.7	20.5	20.1	19.3	16.1	15.2		12.2	11.8		7.2		
40.0	19.7	22.5	22.7	20.2	19.2	18.3	15.9	14.3		11.9	11.1		7.1		
42.0	17.0	20.8	21.7	19.4	18.3	17.2	15.5	13.5	11.8	11.4	10.4		6.9	6.1	
44.0	14.4	19.1	20.8	18.3	17.3	16.2	15.0	12.7	11.1	10.8	9.7		6.5	5.6	
46.0		16.8	19.2	16.0	16.5	15.3	14.3	12.0	10.4	10.3	9.2		6.1	5.3	
48.0		13.9	17.8		15.8	14.5	13.8	11.3	9.8	9.8	8.6	7.9	5.7	4.9	
50.0					15.2	13.7		10.8	9.2	9.3	8.1	7.4	5.4	4.6	
54.0						12.6		9.8	8.2		7.3	6.5	4.0	3.3	
58.0									7.4			5.8	3.5	2.8	
62.0												5.2		2.4	
66.0														2.0	

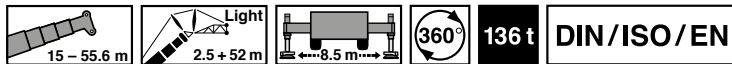


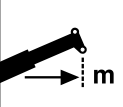
 m	15.0 m + 2.5 m + 46.0 m			25.1 m + 2.5 m + 46.0 m			35.3 m + 2.5 m + 46.0 m			45.4 m + 2.5 m + 46.0 m			55.6 m + 2.5 m + 46.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
16.0	25.8														
18.0	22.8														
20.0	20.6			20.5											
22.0	18.9			19.1			18.2								
24.0	17.4	19.1		17.7			17.8								
26.0	16.0	17.6		16.4			16.9			12.7					
28.0	14.8	16.2		15.2			15.9			12.6			7.8		
30.0	13.8	15.0		14.2	16.1		15.0			12.5			7.7		
32.0	12.8	13.9	14.9	13.2	15.0		14.0			12.4			7.6		
34.0	12.0	12.9	13.8	12.4	14.0		13.2	15.4		12.2			7.5		
36.0	11.2	12.1	12.9	11.6	13.1		12.4	14.5		11.9			7.4		
38.0	10.5	11.3	12.0	10.9	12.2	13.5	11.6	13.7		11.5	12.2		7.4		
40.0	9.8	10.6	11.3	10.2	11.4	12.7	10.9	12.8		11.1	11.4		7.3		
42.0	9.3	9.9	10.6	9.6	10.8	11.8	10.3	12.1		10.6	10.7		7.2		
44.0	8.7	9.4	9.9	9.1	10.1	11.1	9.7	11.4	12.9	10.1	10.1		6.8	6.0	
46.0		8.8	9.3	8.6	9.5	10.5	9.1	10.7	12.2	9.6	9.5		6.4	5.6	
48.0		8.3	8.8		9.0	9.8	8.6	10.1	11.5	9.2	9.0	8.2	6.1	5.2	
50.0					8.5	9.3		9.5	10.8	8.7	8.5	7.7	5.7	4.9	
54.0						8.3		8.5	9.6		7.6	6.9	4.3	3.7	
58.0									8.6			6.1	3.8	3.2	
62.0												5.5		2.7	
66.0														2.3	

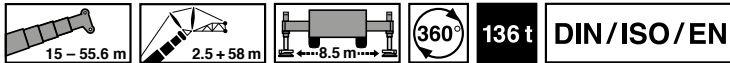
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация




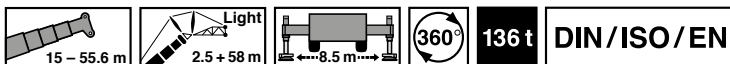
 m	15.0 m + 2.5 m + 52.0 m			25.1 m + 2.5 m + 52.0 m			35.3 m + 2.5 m + 52.0 m			45.4 m + 2.5 m + 52.0 m			55.6 m + 2.5 m + 52.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
18.0	29.8														
20.0	29.2														
22.0	27.8			19.6											
24.0	25.4			19.3			16.0								
26.0	23.5			18.9			15.9								
28.0	22.2	24.5		18.6			15.7			11.2					
30.0	21.0	22.3		18.4			15.6			11.1			6.1		
32.0	19.8	21.1		18.1	18.1		15.5			11.0			6.0		
34.0	18.8	19.9		17.9	17.9		15.3			10.9			6.0		
36.0	17.8	18.9	19.8	17.5	17.6		15.2	15.4		10.8			6.0		
38.0	16.9	17.9	18.8	16.8	17.4		15.1	15.1		10.8			6.0		
40.0	16.1	17.0	17.9	16.1	17.0	16.8	15.0	14.4		10.7	10.8		5.9		
42.0	15.3	16.2	17.0	15.3	16.6	16.0	14.9	13.8		10.6	10.2		5.8		
44.0	14.6	15.4	16.1	14.7	15.9	15.4	14.8	13.2		10.4	9.7		5.8		
46.0	13.9	14.7	15.4	14.1	15.2	14.8	14.2	12.7	11.5	10.2	9.1		5.8	5.1	
48.0	13.2	14.0	14.7	13.5	14.6	14.2	13.8	12.2	11.0	9.7	8.6		5.6	4.7	
50.0	11.8	13.4	14.0	12.9	14.0	13.7	13.3	11.8	10.6	9.2	8.1		5.3	4.4	
54.0		11.6	12.8		12.9	12.7	12.5	10.8	9.6	8.4	7.3	6.5	4.7	3.8	
58.0						11.7		9.8	8.6		6.5	5.7		3.3	2.6
62.0									7.8		5.9	5.1		2.9	2.2
66.0											4.5			2.5	1.8
70.0															1.5




 m	15.0 m + 2.5 m + 52.0 m			25.1 m + 2.5 m + 52.0 m			35.3 m + 2.5 m + 52.0 m			45.4 m + 2.5 m + 52.0 m			55.6 m + 2.5 m + 52.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
18.0	18.8														
20.0	17.2														
22.0	15.8			15.8											
24.0	14.6			14.7											
26.0	13.5			13.7			13.9								
28.0	12.5	13.6		12.7			13.2			10.8					
30.0	11.6	12.6		11.9			12.5			10.7			6.2		
32.0	10.8	11.7		11.1	12.5		11.9			10.4			6.1		
34.0	10.1	10.8		10.3	11.6		11.2			10.2			6.1		
36.0	9.4	10.2	10.8	9.7	10.9		10.5			9.8			6.0		
38.0	8.8	9.5	10.1	9.1	10.2		9.9	11.6		9.5			6.0		
40.0	8.3	8.9	9.5	8.5	9.6	10.5	9.3	11.0		9.1	10.2		5.9		
42.0	7.8	8.3	8.9	8.0	9.0	9.9	8.7	10.3		8.7	9.9		5.9		
44.0	7.3	7.8	8.3	7.6	8.4	9.3	8.2	9.7		8.3	9.6		5.9		
46.0	6.9	7.4	7.8	7.1	7.9	8.7	7.8	9.1	10.4	7.9	9.2		5.9	5.4	
48.0	6.5	7.0	7.4	6.7	7.5	8.2	7.3	8.6	9.8	7.6	8.9		5.8	5.1	
50.0	6.2	6.6	6.9	6.4	7.1	7.7	6.9	8.1	9.2	7.2	8.4		5.6	4.7	
54.0		5.9	6.2		6.3	6.9	6.2	7.2	8.2	6.5	7.6	6.8	5.0	4.2	
58.0						6.2		6.4	7.3		6.8	6.1		3.6	3.0
62.0									6.5		6.2	5.4		3.2	2.5
66.0											4.9			2.8	2.2
70.0															1.8

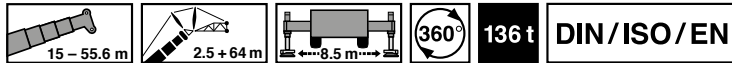



 m	15.0 m + 2.5 m + 58.0 m			25.1 m + 2.5 m + 58.0 m			35.3 m + 2.5 m + 58.0 m			45.4 m + 2.5 m + 58.0 m			55.6 m + 2.5 m + 58.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
20.0	25.6														
22.0	23.9														
24.0	23.0			17.5											
26.0	22.6			17.3			14.6								
28.0	22.3			17.1			14.4								
30.0	22.0	22.1		16.9			14.3			9.3					
32.0	21.6	21.7		16.7			14.2			9.2			4.7		
34.0	21.3	21.5		16.6			14.0			9.1			4.6		
36.0	20.8	20.6		16.4	16.5		13.9			9.0			4.6		
38.0	19.9	19.7		16.2	16.4		13.8	13.9		9.0			4.6		
40.0	19.1	18.9	18.6	16.1	15.7		13.7	13.7		8.9			4.5		
42.0	18.4	18.1	17.8	16.0	15.0		13.6	13.1		8.8			4.4		
44.0	17.7	17.4	17.1	15.5	14.4	13.5	13.5	12.6		8.8	8.7		4.3		
46.0	17.1	16.8	16.5	14.9	13.8	13.0	13.4	11.9		8.7	8.5		4.3		
48.0	16.0	16.2	15.9	14.4	13.3	12.4	13.0	11.2		8.7	8.1		4.3	4.1	
50.0	14.7	15.7	15.3	13.9	12.8	12.0	12.6	10.6	9.1	8.6	7.6		4.3	3.8	
54.0	11.3	14.3	14.4	13.0	11.9	11.1	11.5	9.5	8.0	7.9	6.8		4.2	3.2	
58.0		11.5	13.4	10.9	11.2	10.3	10.6	8.5	7.1	7.1	6.0	5.2	3.6	2.7	
62.0					10.5	9.4		7.7	6.3		5.4	4.6	3.2	2.3	1.6
66.0								7.1	5.6		4.8	4.0		1.9	
70.0									5.1			3.6		1.6	
74.0												3.1			

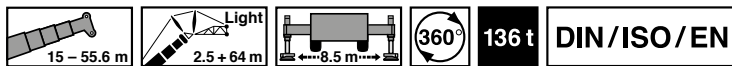


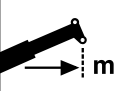
 m	15.0 m + 2.5 m + 58.0 m			25.1 m + 2.5 m + 58.0 m			35.3 m + 2.5 m + 58.0 m			45.4 m + 2.5 m + 58.0 m			55.6 m + 2.5 m + 58.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
22.0	20.9														
24.0	19.9			16.8											
26.0	18.8			16.6			14.5								
28.0	17.6			16.3			14.4								
30.0	16.7			16.1			14.2			9.4					
32.0	15.7	16.8		15.4			14.1			9.3			4.9		
34.0	14.8	15.8		14.7			13.8			9.3			4.9		
36.0	14.0	15.0		14.0	15.1		13.5			9.2			4.8		
38.0	13.3	14.1		13.3	14.5		13.1	13.9		9.1			4.8		
40.0	12.6	13.4	14.1	12.7	13.9		12.6	13.5		9.1			4.7		
42.0	12.0	12.7	13.4	12.1	13.2		12.2	13.2		9.0			4.6		
44.0	11.4	12.1	12.7	11.5	12.6	13.5	11.7	12.7		9.0	8.9		4.6		
46.0	10.8	11.5	12.0	11.0	12.0	12.9	11.3	12.2		8.9	8.8		4.6		
48.0	10.3	10.9	11.4	10.5	11.5	12.3	10.8	11.6		8.9	8.5		4.6	4.5	
50.0	9.8	10.4	10.9	10.0	10.9	11.7	10.4	10.9	9.4	8.9	8.0		4.6	4.2	
54.0	9.0	9.5	9.9	9.2	10.0	10.7	9.6	9.8	8.3	8.2	7.1		4.5	3.6	
58.0		8.7	9.1	8.4	9.1	9.8	8.8	8.9	7.4	7.5	6.4	5.6	4.0	3.1	
62.0					8.4	9.0		8.1	6.6		5.7	5.0	3.6	2.7	1.9
66.0								7.5	6.0		5.2	4.4		2.3	1.6
70.0									5.4			3.9		2.0	
74.0												3.5			

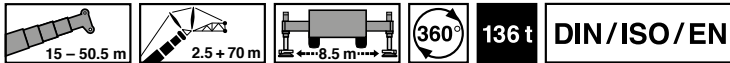
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация




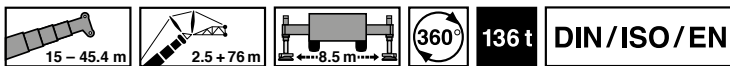
 m	15.0 m + 2.5 m + 64.0 m			25.1 m + 2.5 m + 64.0 m			35.3 m + 2.5 m + 64.0 m			45.4 m + 2.5 m + 64.0 m			55.6 m + 2.5 m + 64.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
24.0	19.3														
26.0	19.1			15.8											
28.0	18.8			15.7			12.6								
30.0	18.6			15.5			12.5								
32.0	18.3			15.3			12.4								
34.0	18.1	18.2		15.2			12.3				7.8			3.8	
36.0	17.9	17.9		15.0			12.2				7.7			3.7	
38.0	17.7	17.6		14.9	14.7		12.1				7.7			3.7	
40.0	17.2	16.9		14.8	14.1		12.0				7.6			3.7	
42.0	16.6	16.2	15.9	14.6	13.5		11.9	11.7			7.6			3.6	
44.0	16.0	15.7	15.3	14.1	13.0		11.8	11.2			7.5			3.6	
46.0	15.5	15.1	14.8	13.6	12.5		11.7	10.7			7.5	7.5		3.6	
48.0	15.0	14.6	14.2	13.1	12.0	11.2	11.7	10.3			7.4	7.5		3.6	
50.0	14.5	14.1	13.8	12.6	11.6	10.7	11.5	9.9			7.4	7.4		3.5	
54.0	13.4	13.2	12.9	11.8	10.8	9.9	10.7	9.1	7.9		7.3	6.7		3.5	3.0
58.0	10.8	12.5	12.1	11.1	10.1	9.2	10.0	8.5	7.3		7.0	5.9		3.4	2.5
62.0	8.1	11.1	11.5	10.5	9.5	8.6	9.4	7.9	6.7		6.4	5.3	4.4	3.0	2.1
66.0			10.3		8.9	7.9	8.9	7.3	6.0		5.8	4.7	3.9	2.7	1.7
70.0						7.0		6.8	5.2			4.2	3.2		
74.0									4.5			3.8	2.6		
78.0												2.1			




 m	15.0 m + 2.5 m + 64.0 m			25.1 m + 2.5 m + 64.0 m			35.3 m + 2.5 m + 64.0 m			45.4 m + 2.5 m + 64.0 m			55.6 m + 2.5 m + 64.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
24.0	16.5														
26.0	15.6			14.6											
28.0	14.8			14.1											
30.0	13.9			13.5			12.0								
32.0	13.1			12.9			11.7				7.9				
34.0	12.4	13.2		12.3			11.4				7.8			4.0	
36.0	11.7	12.5		11.7			11.0				7.8			4.0	
38.0	11.1	11.8		11.1	12.2		10.7				7.7			3.9	
40.0	10.5	11.2		10.6	11.6		10.3				7.7			3.9	
42.0	9.9	10.6	11.1	10.1	11.0		9.9	10.8			7.6			3.9	
44.0	9.4	10.0	10.5	9.6	10.5		9.5	10.5			7.6			3.8	
46.0	9.0	9.5	10.0	9.1	10.0		9.1	10.1			7.5	7.6		3.8	
48.0	8.5	9.0	9.5	8.7	9.5	10.3	8.8	9.7			7.5	7.5		3.7	
50.0	8.1	8.6	9.0	8.3	9.1	9.8	8.4	9.4			7.5	7.5		3.7	
54.0	7.4	7.8	8.2	7.6	8.3	8.9	7.7	8.6	7.8		7.1	7.0		3.7	3.4
58.0	6.7	7.1	7.4	6.9	7.5	8.1	7.1	7.9	7.2		6.8	6.3		3.6	2.9
62.0	6.2	6.5	6.8	6.4	6.9	7.4	6.5	7.3	6.6		6.4	5.6	4.8	3.4	2.4
66.0			6.2		6.3	6.8		6.7	5.9		6.0	5.0	4.2	3.0	2.1
70.0						6.2		6.2	5.3			4.5	3.7		1.7
74.0									4.8			4.1	3.3		1.5
78.0												2.8			



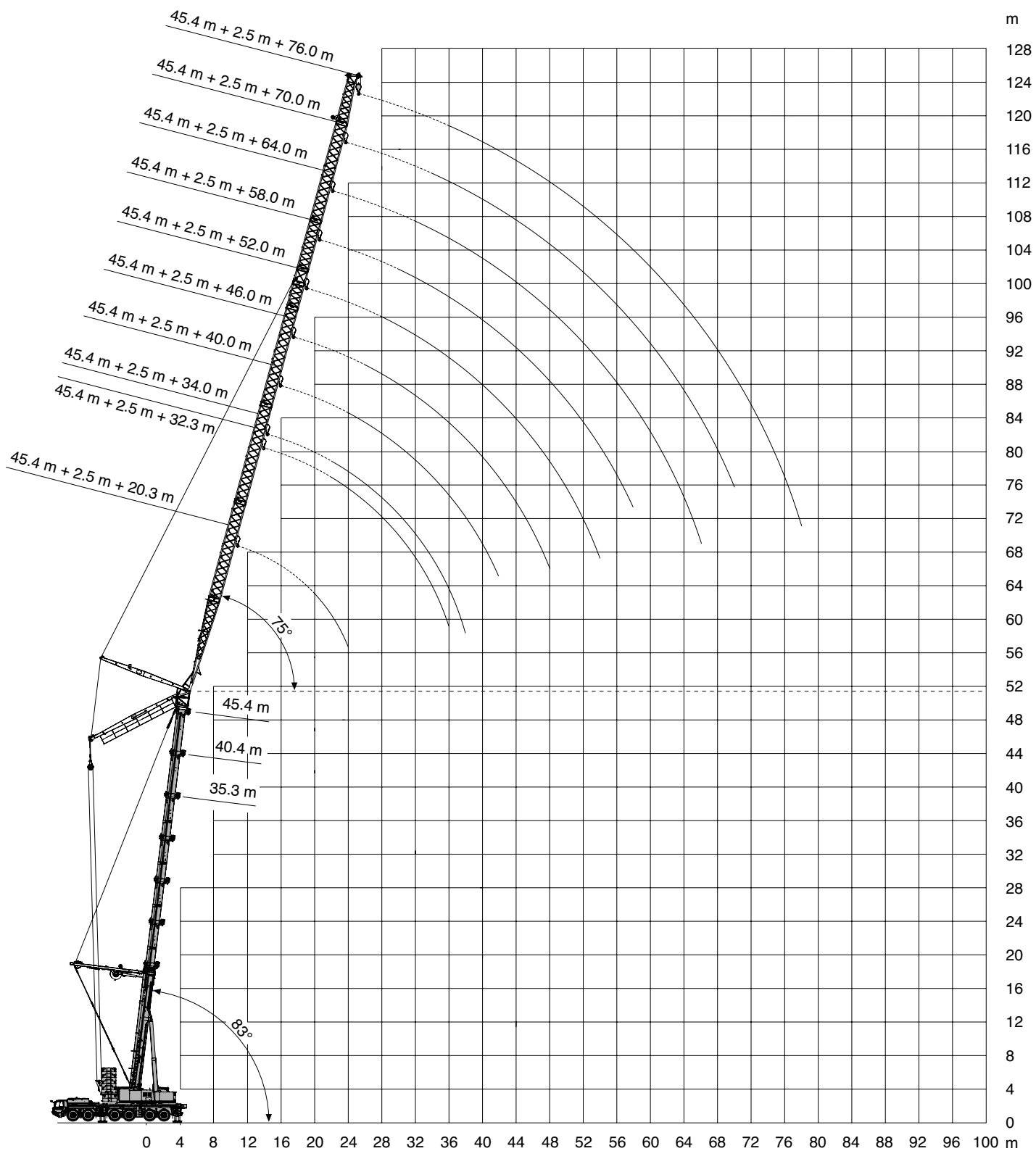
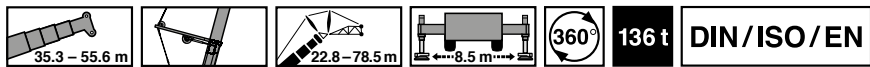
 m	15.0 m + 2.5 m + 70.0 m			25.1 m + 2.5 m + 70.0 m			35.3 m + 2.5 m + 70.0 m			45.4 m + 2.5 m + 70.0 m			50.5 m + 2.5 m + 70.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
26.0	15.9														
28.0	15.7			13.8											
30.0	15.5			13.6											
32.0	15.4			13.5			10.6								
34.0	15.2			13.4			10.5			6.3					
36.0	14.9			13.3			10.4			6.3			4.5		
38.0	14.6	14.9		13.1			10.4			6.2			4.5		
40.0	14.2	14.6		12.9	13.1		10.3			6.2			4.4		
42.0	13.6	14.1		12.7	12.8		10.2			6.1			4.3		
44.0	13.1	13.7		12.4	12.2		10.1			6.1			4.3		
46.0	12.5	13.1	13.1	12.1	11.8		10.1	9.3		6.1			4.3		
48.0	12.0	12.6	12.7	11.7	11.3		10.0	8.9		6.1			4.2		
50.0	11.6	12.1	12.3	11.4	10.9		9.9	8.6		6.1	6.1		4.2		
54.0	10.7	11.2	11.5	10.7	10.1	9.3	9.5	7.9		6.0	6.1		4.1	4.2	
58.0	9.9	10.4	10.8	10.0	9.5	8.6	8.8	7.3	6.1	6.0	5.7		4.0	3.9	
62.0	9.3	9.7	10.0	9.4	8.9	8.0	8.3	6.8	5.7	6.0	5.1	4.0	4.0	3.4	
66.0	7.9	9.0	9.3	8.8	8.3	7.5	7.8	6.4	5.2	5.6	4.5	3.5	4.0	2.9	2.0
70.0		8.2	8.7	7.7	7.9	6.7	7.4	5.9	4.5	5.1	4.0	2.9	3.6	2.5	1.6
74.0					7.0	5.9		5.4	3.9		3.6	2.4	3.2	2.1	
78.0								4.7	3.3		3.2	1.8		1.8	
82.0									2.8					1.6	



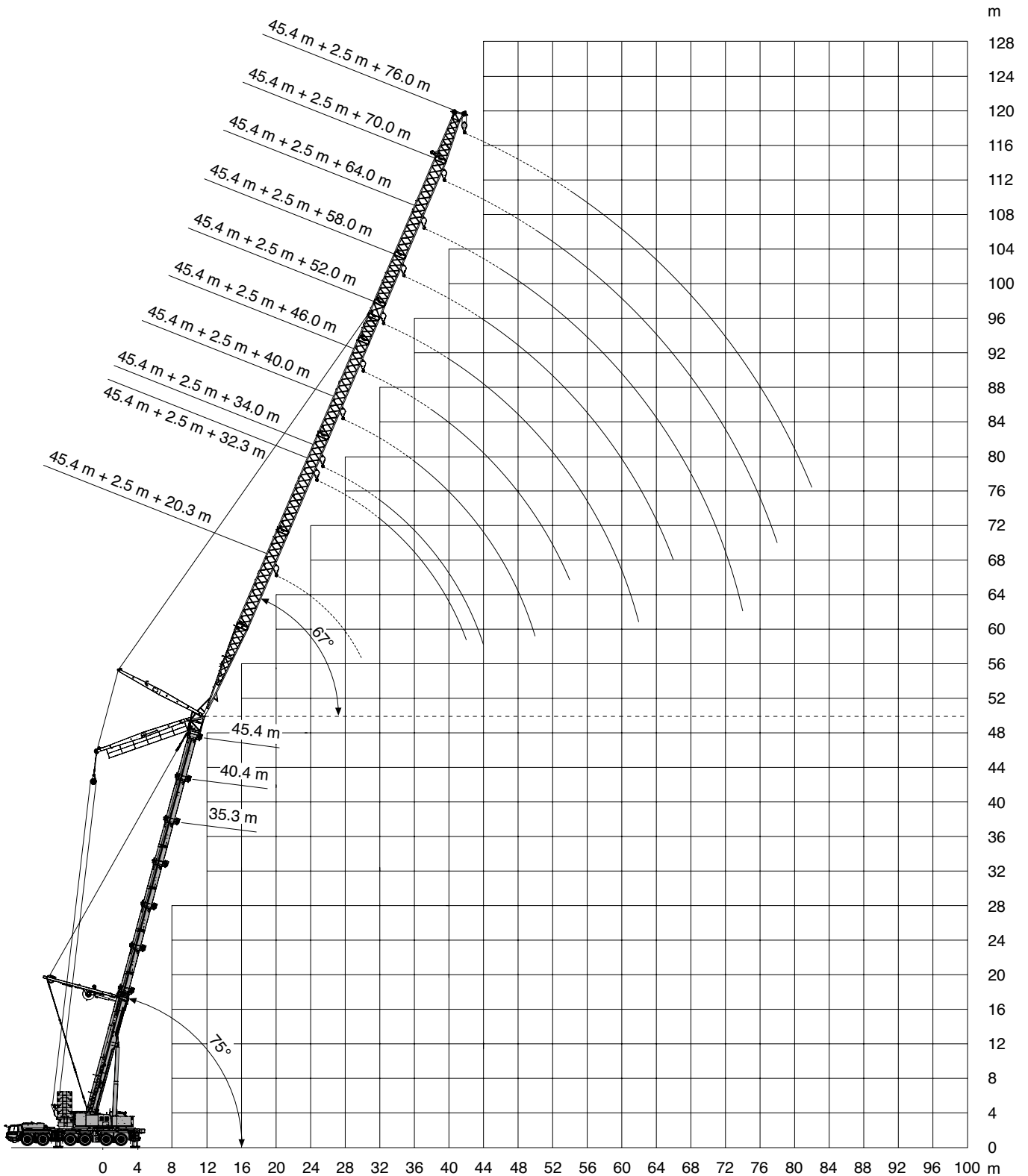
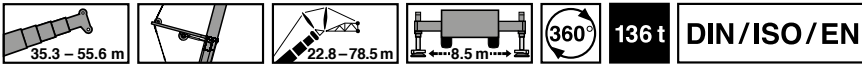
 m	15.0 m + 2.5 m + 76.0 m			25.1 m + 2.5 m + 76.0 m			35.3 m + 2.5 m + 76.0 m			40.4 m + 2.5 m + 76.0 m			45.4 m + 2.5 m + 76.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
28.0	12.8														
30.0	12.7			11.5											
32.0	12.5			11.4											
34.0	12.2			11.2			8.9								
36.0	11.9			10.9			8.8			6.9			5.1		
38.0	11.5			10.7			8.8			6.9			5.0		
40.0	11.1	11.6		10.4			8.7			6.8			5.0		
42.0	10.6	11.1		10.1			8.6			6.8			5.0		
44.0	10.2	10.7		9.8	10.3		8.6			6.7			5.0		
46.0	9.8	10.3		9.5	10.0		8.5			6.7			5.0		
48.0	9.4	9.9		9.2	9.6		8.4	7.3		6.7			4.9		
50.0	9.1	9.5	9.9	8.9	9.3		8.2	7.0		6.6	6.2		4.9		
54.0	8.4	8.8	9.1	8.3	8.6		7.9	6.5		6.5	5.6		4.8	4.9	
58.0	7.8	8.1	8.4	7.8	8.1	7.2	7.5	6.0		6.5	5.2		4.7	4.7	
62.0	7.2	7.5	7.8	7.3	7.5	6.7	7.0	5.5	4.4	6.4	4.8		4.7	4.5	
66.0	6.7	7.0	7.3	6.8	7.1	6.2	6.6	5.1	4.0	6.0	4.4	3.1	4.7	4.1	2.6
70.0	6.3	6.6	6.8	6.4	6.7	5.8	6.2	4.8	3.5	5.6	4.0	2.6	4.7	3.7	2.0
74.0	5.5	6.1	6.3	6.0	6.2	5.1	5.9	4.5	2.9	5.3	3.7	2.0	4.3	3.2	1.5
78.0			5.9		5.5	4.4		3.8	2.4	5.0	3.2	1.5	4.0	2.8	
82.0						3.8			3.3		2.6			2.3	
86.0									1.9		2.1			1.8	

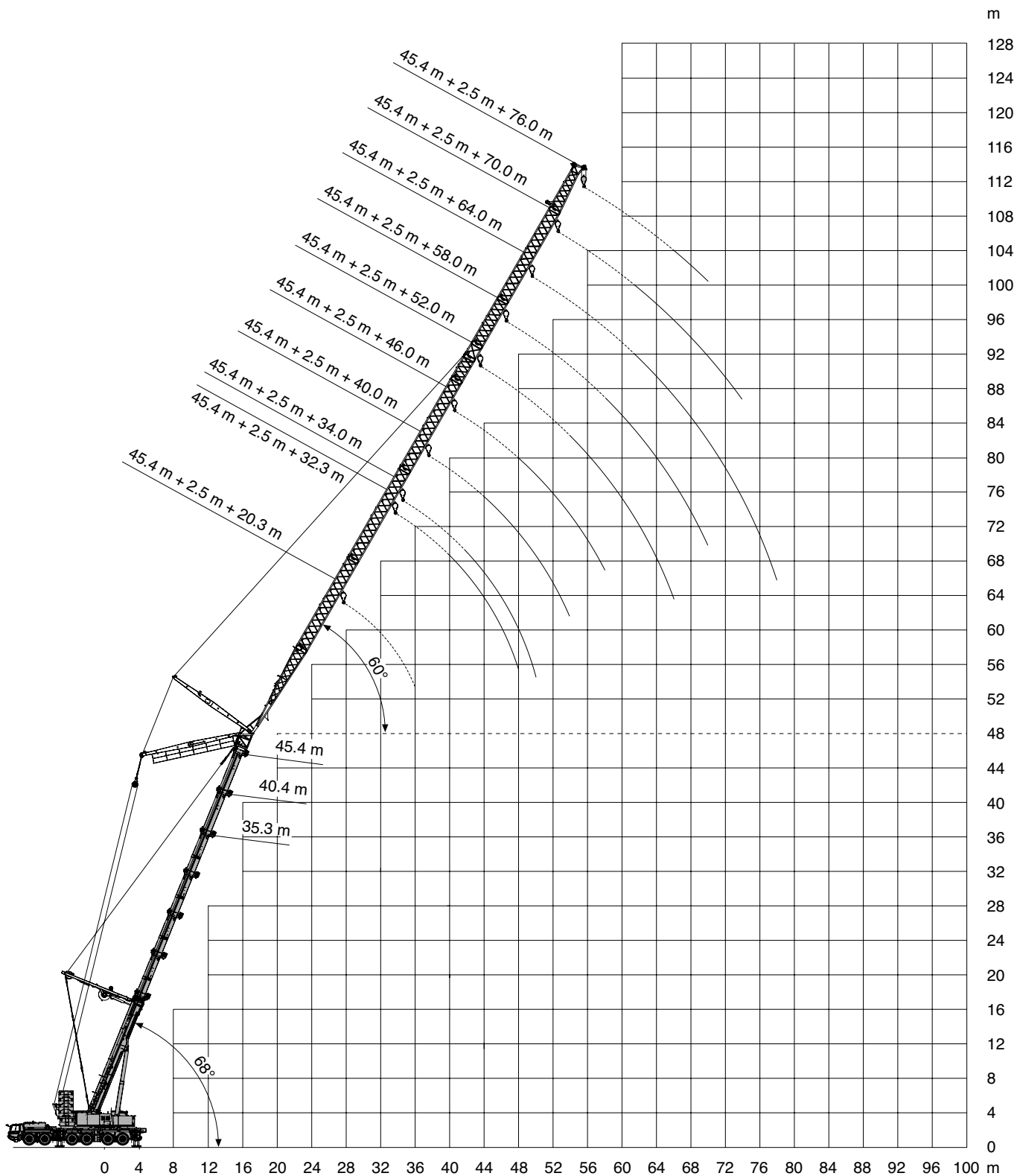
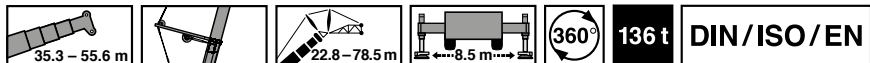
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона

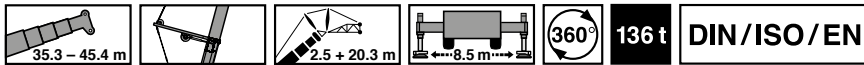


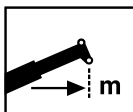


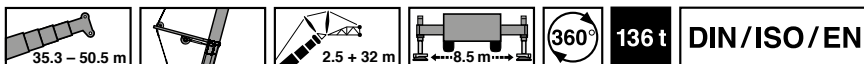


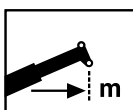


Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

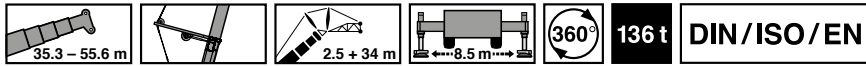


 m	35.3 m + 2.5 m + 20.3 m			40.4 m + 2.5 m + 20.3 m			45.4 m + 2.5 m + 20.3 m								
	83°	75°	68°	83°	75°	68°	83°	75°	68°						
16.0	39.8														
18.0	35.5			31.1											
20.0	31.7			27.6			26.7								
22.0	28.0			22.0			21.5								
24.0		30.1		18.7			18.5								
26.0		27.2			21.4										
28.0		21.3			19.0										
30.0			22.8		16.5			16.4							
32.0			20.3												
34.0						15.9									
36.0										14.0					

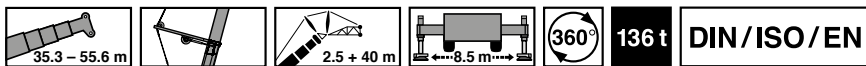


 m	35.3 m + 2.5 m + 32.3 m			40.4 m + 2.5 m + 32.3 m			45.4 m + 2.5 m + 32.3 m			50.5 m + 2.5 m + 32.3 m					
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°			
18.0	30.8			20.8											
20.0	30.3			20.3			16.5			12.5					
22.0	29.4			19.9			16.1			12.1					
24.0	26.9			19.0			15.8			11.9					
26.0	22.4			17.5			15.6			11.7					
28.0	20.4	22.8		16.0	17.7		15.3			11.6					
30.0	18.6	20.9		14.5	16.2		13.9	15.1		11.3					
32.0	16.9	19.3		13.1	15.0		12.5	14.2		11.0	11.5				
34.0	15.2	17.8	19.2		13.8		11.1	13.0		11.0	11.2				
36.0		16.3	17.8		12.6	13.7		12.0			10.9				
38.0		14.9	16.5		11.5	12.7		11.0	11.9		10.7				
40.0		13.4	15.3		10.3	11.7		9.9	11.0		10.2				
42.0			14.1			10.8			10.2	9.1	10.6				
44.0			12.9			9.9			9.4		9.4				
46.0									8.6		8.6				
48.0											8.6				
50.0											7.9				

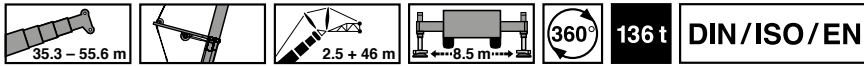
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация




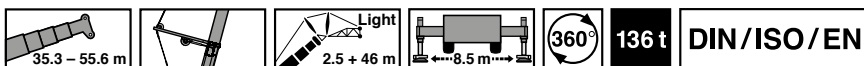
m	35.3 m + 2.5 m + 34.0 m			40.4 m + 2.5 m + 34.0 m			45.4 m + 2.5 m + 34.0 m			50.5 m + 2.5 m + 34.0 m			55.6 m + 2.5 m + 34.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
18.0	27.8														
20.0	24.4			19.8											
22.0	22.8			19.3			15.6								
24.0	21.2			18.9			15.2				11.5			7.9	
26.0	19.4			18.4			15.0				11.4			7.7	
28.0	17.7	21.2		17.6			14.7				11.4			7.7	
30.0	16.1	19.5		16.1	17.5		14.4				11.1			7.7	
32.0	14.6	18.0		14.6	16.3		13.8	14.4			11.0			7.7	
34.0	12.9	16.6		13.3	15.0		12.7	14.1			10.7	11.1		7.7	
36.0		15.3	17.5	12.0	13.8		11.4	13.2			10.6	10.8		7.5	7.2
38.0		14.0	16.2		12.7	13.6	10.1	12.0			10.4	10.5		7.2	7.2
40.0		12.8	15.0		11.7	12.6		11.0				10.5			7.0
42.0		11.4	13.9		10.6	11.7		10.1	11.0			10.1			7.0
44.0			12.9			10.8		9.1	10.1			9.3	10.3		7.0
46.0			11.8			10.0			9.4			8.3	9.3	6.6	6.9
48.0						9.1			8.6			8.6	8.6	6.4	6.7
50.0									7.8			7.9	7.9		6.4
54.0															6.4




m	35.3 m + 2.5 m + 40.0 m			40.4 m + 2.5 m + 40.0 m			45.4 m + 2.5 m + 40.0 m			50.5 m + 2.5 m + 40.0 m			55.6 m + 2.5 m + 40.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
20.0	20.8														
22.0	20.4			17.2											
24.0	20.0			16.8			13.4								
26.0	19.6			16.5			13.2				10.3			8.2	
28.0	18.7			16.2			13.1				10.3			8.0	
30.0	17.7	19.1		15.9			13.0				10.2			7.8	
32.0	16.7	18.8		15.6			12.8				10.0			7.7	
34.0	15.7	18.1		15.0	15.4		12.7				9.8			7.5	
36.0	14.8	17.0		14.1	15.0		12.4	12.6			9.7			7.3	
38.0	14.0	15.8		13.0	14.2		11.3	12.1			9.6	9.7		7.2	7.3
40.0	12.9	14.7	15.7	11.9	13.2		10.3	11.4			9.4	9.5		7.0	7.1
42.0	11.5	13.6	14.7	10.8	12.3	13.0	9.3	10.5			9.2	9.4		6.9	6.9
44.0		12.6	13.7		11.5	12.2		9.7	10.2		8.5	9.2		6.7	6.8
46.0		11.5	12.8		10.6	11.4		9.0	9.5			8.8			6.6
48.0		10.4	11.9		9.8	10.7		8.3	8.9			8.3	8.8		6.5
50.0			11.0			10.0		7.5	8.3			7.6	8.1		6.3
54.0															6.3
58.0									7.1				7.0		6.0
												5.9			5.8

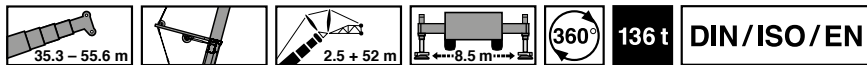



 m	35.3 m + 2.5 m + 46.0 m			40.4 m + 2.5 m + 46.0 m			45.4 m + 2.5 m + 46.0 m			50.5 m + 2.5 m + 46.0 m			55.6 m + 2.5 m + 46.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
22.0	17.1														
24.0	16.8			14.0											
26.0	16.5			13.8			12.0			9.2					
28.0	16.2			13.7			11.8			9.0			6.6		
30.0	16.0			13.5			11.6			8.9			6.5		
32.0	15.7			13.3			11.5			8.7			6.3		
34.0	15.4	15.4		13.2			11.4			8.6			6.2		
36.0	14.8	15.2		13.0	13.1		11.2			8.5			6.1		
38.0	13.7	14.4		12.2	12.9		11.0	11.2		8.3			6.0		
40.0	12.7	13.5		11.3	12.0		10.6	10.9		8.2	8.2		5.9		
42.0	11.8	12.6	13.0	10.5	11.2		9.7	10.2		8.1	8.1		5.8	5.7	
44.0	10.9	11.8	12.2	9.6	10.4		8.9	9.5		7.9	7.9		5.7	5.6	
46.0	9.9	11.0	11.5	8.8	9.7	10.0	8.2	8.9		7.8	7.8		5.6	5.5	
48.0		10.2	10.7	8.0	9.0	9.4	7.5	8.3	8.5	7.5	7.7		5.5	5.4	
50.0		9.5	10.1		8.4	8.8		7.7	7.9	6.8	7.5	7.5	5.3	5.3	
54.0			8.8		7.1	7.7		6.6	6.9		6.5	6.7		5.0	5.0
58.0						6.6			6.0		5.4	5.8		4.8	4.8
62.0												5.0			4.6
66.0															4.2

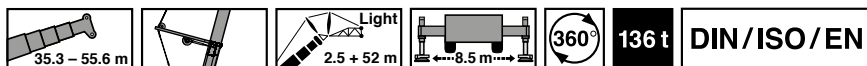



 m	35.3 m + 2.5 m + 46.0 m			40.4 m + 2.5 m + 46.0 m			45.4 m + 2.5 m + 46.0 m			50.5 m + 2.5 m + 46.0 m			55.6 m + 2.5 m + 46.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
22.0	17.7														
24.0	17.1														
26.0	16.4			14.2			12.6			9.3					
28.0	15.5			13.9			12.5			9.1			6.8		
30.0	14.5			13.7			12.3			9.0			6.7		
32.0	13.7			13.2			12.1			8.8			6.5		
34.0	12.8	14.9		12.6			11.9			8.7			6.4		
36.0	12.0	14.1		12.0	13.3		11.5			8.6			6.3		
38.0	11.3	13.2		11.3	13.0		11.1	11.9		8.4			6.2		
40.0	10.7	12.4		10.7	12.3		10.6	11.7		8.3	8.4		6.1		
42.0	10.1	11.7	13.3	10.1	11.6		10.2	11.4		8.2	8.2		6.0	5.9	
44.0	9.5	11.0	12.5	9.6	10.8		9.7	10.8		8.1	8.1		5.9	5.8	
46.0	9.0	10.4	11.8	9.1	10.1	10.5	9.1	10.1		7.9	8.0		5.7	5.7	
48.0	8.5	9.8	11.1	8.3	9.4	9.8	8.4	9.4	9.8	7.7	7.8		5.6	5.6	
50.0		9.3	10.5		8.7	9.2		8.8	9.2	7.0	7.7	7.7	5.5	5.5	
54.0			9.3		7.4	8.1		7.6	8.2		6.8	7.1		5.3	5.2
58.0						7.0			7.2		5.6	6.2		5.0	5.0
62.0												5.3			4.8
66.0															4.4

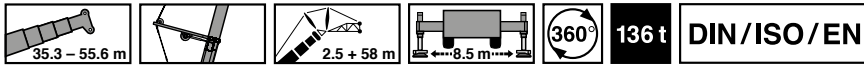
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

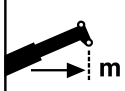


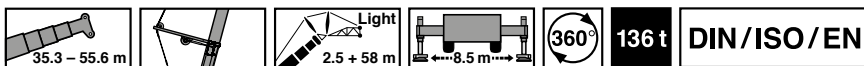
 m	35.3 m + 2.5 m + 52.0 m			40.4 m + 2.5 m + 52.0 m			45.4 m + 2.5 m + 52.0 m			50.5 m + 2.5 m + 52.0 m			55.6 m + 2.5 m + 52.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
24.0	15.5														
26.0	15.3														
28.0	15.1			12.9			10.5			7.8					
30.0	14.9			12.7			10.3			7.7			5.4		
32.0	14.8			12.6			10.2			7.5			5.4		
34.0	14.6			12.4			10.1			7.4			5.3		
36.0	14.5	14.5		12.3			10.0			7.3			5.2		
38.0	14.4	14.4		12.0			9.9			7.2			5.1		
40.0	14.1	14.2		11.7	11.8		9.7	9.8		7.1			5.0		
42.0	13.2	13.6		10.9	11.3		9.6	9.7		7.0	7.0		4.9		
44.0	12.3	13.1		10.1	10.6		9.4	9.4		7.0	6.9		4.9	4.8	
46.0	11.5	12.3	11.1	9.4	9.9		8.7	9.0		6.9	6.8		4.8	4.7	
48.0	10.6	11.6	10.6	8.7	9.3		8.1	8.4		6.8	6.7		4.7	4.6	
50.0	9.8	10.8	10.2	8.1	8.7	8.5	7.4	7.9		6.7	6.6		4.7	4.5	
54.0		9.5	9.4	6.7	7.6	7.8	6.2	6.8	7.0	6.3	6.4	6.4	4.5	4.4	
58.0		8.1	8.8		6.5	6.9		5.9	6.1		5.8	5.9		4.2	4.1
62.0			7.7			6.0		5.0	5.3		4.9	5.1		4.0	3.9
66.0									4.6			4.4			3.8
70.0															3.6




 m	35.3 m + 2.5 m + 52.0 m			40.4 m + 2.5 m + 52.0 m			45.4 m + 2.5 m + 52.0 m			50.5 m + 2.5 m + 52.0 m			55.6 m + 2.5 m + 52.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
26.0	14.0														
28.0	13.3			12.0			10.2			7.8					
30.0	12.7			11.6			10.1			7.6			5.6		
32.0	12.0			11.1			9.8			7.5			5.5		
34.0	11.4			10.5			9.6			7.4			5.4		
36.0	10.7			10.0			9.2			7.3			5.3		
38.0	10.1	11.7		9.5			8.9			7.2			5.2		
40.0	9.5	11.0		9.0	10.4		8.5	9.4		7.1			5.1		
42.0	9.0	10.4		8.5	9.9		8.2	9.2		7.1	7.0		5.1		
44.0	8.5	9.8		8.0	9.4		7.8	8.8		6.9	7.0		5.0	4.9	
46.0	8.0	9.3	10.5	7.6	8.9		7.4	8.5		6.7	6.9		4.9	4.8	
48.0	7.6	8.7	9.9	7.2	8.4		7.1	8.2		6.5	6.8		4.9	4.8	
50.0	7.2	8.3	9.3	6.8	8.0	8.9	6.8	7.8		6.3	6.7		4.8	4.7	
54.0		7.4	8.3	6.1	7.2	8.1	6.1	7.1	7.3	5.8	6.5	6.5	4.6	4.5	
58.0		6.7	7.5		6.4	7.2		6.2	6.4		6.0	6.2		4.4	4.3
62.0			6.7			6.3		5.2	5.6		5.2	5.5		4.2	4.1
66.0									4.9			4.7		4.0	4.0
70.0														4.0	3.8

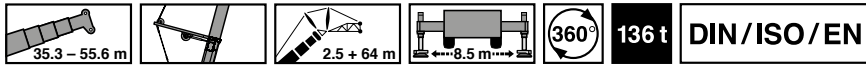


 m	35.3 m + 2.5 m + 58.0 m			40.4 m + 2.5 m + 58.0 m			45.4 m + 2.5 m + 58.0 m			50.5 m + 2.5 m + 58.0 m			55.6 m + 2.5 m + 58.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
26.0	14.1														
28.0	13.9			11.2											
30.0	13.8			11.1			8.7								
32.0	13.6			11.0			8.6			6.1			4.1		
34.0	13.4			10.8			8.5			6.0			4.0		
36.0	13.3			10.7			8.3			6.0			3.9		
38.0	13.2	13.2		10.6			8.3			5.9			3.8		
40.0	12.8	12.8		10.5			8.2			5.8			3.8		
42.0	12.1	12.3		10.2	10.3		8.1			5.7			3.7		
44.0	11.4	11.7		10.0	10.1		8.0	8.0		5.7			3.7		
46.0	10.7	11.0		9.3	9.5		7.9	7.9		5.6	5.5		3.6		
48.0	10.0	10.3	9.9	8.7	8.9		7.8	7.7		5.5	5.5		3.6	3.5	
50.0	9.3	9.7	9.4	8.1	8.3		7.4	7.6		5.5	5.4		3.6	3.4	
54.0	8.0	8.5	8.6	7.0	7.3	7.3	6.3	6.5		5.4	5.2		3.4	3.3	
58.0	6.8	7.5	7.7	5.9	6.4	6.5	5.4	5.7	5.6	5.2	5.1	4.8	3.4	3.2	
62.0		6.4	6.8		5.5	5.7		4.9	4.9		4.8	4.3	3.3	3.1	3.0
66.0			5.9		4.6	5.0		4.1	4.3		4.0	3.6		3.0	2.9
70.0						4.2			3.7			3.0		2.9	2.3
74.0												2.4			1.8

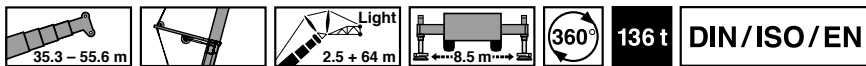


 m	35.3 m + 2.5 m + 58.0 m			40.4 m + 2.5 m + 58.0 m			45.4 m + 2.5 m + 58.0 m			50.5 m + 2.5 m + 58.0 m			55.6 m + 2.5 m + 58.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
26.0	14.1														
28.0	13.9			11.3											
30.0	13.8			11.2			8.8								
32.0	13.6			11.1			8.7			6.4			4.4		
34.0	13.4			11.0			8.6			6.3			4.3		
36.0	13.1			10.8			8.5			6.2			4.2		
38.0	12.7	13.3		10.7			8.5			6.1			4.1		
40.0	12.2	13.0		10.6			8.4			6.1			4.1		
42.0	11.8	12.6		10.5	10.5		8.3			6.0			4.0		
44.0	11.4	12.1		10.3	10.4		8.2	8.2		5.9			4.0		
46.0	10.9	11.4		9.7	10.0		8.1	8.1		5.8	5.8		3.9		
48.0	10.3	10.7		9.0	9.3		8.1	8.0		5.8	5.7		3.9	3.7	
50.0	9.6	10.1	9.9	8.4	8.7		7.7	7.9		5.7	5.7		3.8	3.7	
54.0	8.4	8.9	9.1	7.3	7.7	7.7	6.7	6.9		5.6	5.5		3.7	3.6	
58.0	7.1	7.8	8.1	6.2	6.7	6.8	5.7	6.0	6.0	5.5	5.4	5.3	3.7	3.5	
62.0		6.8	7.1		5.8	6.0		5.2	5.3		5.1	4.8	3.5	3.4	3.2
66.0			6.3		4.9	5.3		4.5	4.6		4.4	4.3		3.3	3.2
70.0						4.6			4.0			3.7		3.2	3.0
74.0												3.1			2.5

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

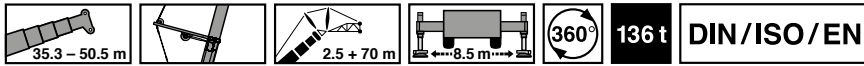



m	35.3 m + 2.5 m + 64.0 m			40.4 m + 2.5 m + 64.0 m			45.4 m + 2.5 m + 64.0 m			50.5 m + 2.5 m + 64.0 m			55.6 m + 2.5 m + 64.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
28.0	12.3														
30.0	12.1			9.6											
32.0	12.0			9.5			7.4			5.1					
34.0	11.9			9.4			7.3			5.0			3.1		
36.0	11.7			9.3			7.2			5.0			3.1		
38.0	11.6			9.2			7.1			4.9			3.0		
40.0	11.5			9.1			7.0			4.8			3.0		
42.0	11.4	11.5		9.0			7.0			4.8			2.9		
44.0	11.3	11.0		8.9	8.9		6.9			4.7			2.9		
46.0	11.2	10.5		8.8	8.9		6.8	6.8		4.7			2.9		
48.0	11.0	10.1		8.7	8.6		6.8	6.7		4.6	4.5		2.8		
50.0	10.3	9.7		8.3	8.2		6.7	6.7		4.6	4.5		2.8	2.6	
54.0	9.1	8.9	7.5	7.2	7.4		6.4	6.5		4.5	4.4		2.7	2.5	
58.0	7.9	8.3	6.9	6.3	6.5	5.5	5.7	5.7		4.4	4.3		2.6	2.5	
62.0	6.8	7.5	6.3	5.3	5.7	5.0	4.8	5.0	4.0	4.4	4.2	3.5	2.6	2.4	
66.0		6.5	5.6		4.9	4.4	4.0	4.3	3.4	4.0	4.1	2.9	2.6	2.3	2.1
70.0		5.6	4.9		4.2	3.8		3.6	2.8		3.5	2.3		2.3	1.6
74.0			4.2			3.2		3.0	2.3		2.9	1.8		2.3	
78.0									1.8						

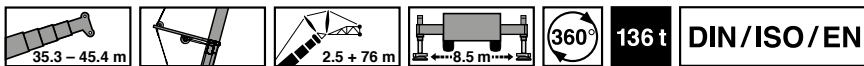



m	35.3 m + 2.5 m + 64.0 m			40.4 m + 2.5 m + 64.0 m			45.4 m + 2.5 m + 64.0 m			50.5 m + 2.5 m + 64.0 m			55.6 m + 2.5 m + 64.0 m		
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°
28.0	12.3														
30.0	12.1			9.5											
32.0	11.7			9.5			7.4								
34.0	11.4			9.4			7.3			5.1			3.4		
36.0	11.0			9.3			7.3			5.0			3.3		
38.0	10.6			9.2			7.2			5.0			3.3		
40.0	10.2			9.0			7.1			5.0			3.2		
42.0	9.8	10.8		8.8			7.1			5.0			3.2		
44.0	9.4	10.4		8.6	9.0		7.0			4.9			3.2		
46.0	9.0	10.0		8.3	8.8		6.9	6.9		4.8			3.1		
48.0	8.6	9.6		8.1	8.7		6.9	6.8		4.8	4.7		3.1		
50.0	8.3	9.2		7.8	8.4		6.8	6.8		4.7	4.7		3.1	2.9	
54.0	7.6	8.5	7.9	7.3	7.7		6.6	6.7		4.7	4.6		2.9	2.8	
58.0	7.0	7.8	7.3	6.6	6.8	6.1	6.0	6.1		4.6	4.5		2.9	2.7	
62.0	6.4	7.1	6.7	5.6	6.0	5.6	5.1	5.3	4.6	4.6	4.4	3.9	2.9	2.7	
66.0		6.6	6.2	4.7	5.2	5.1	4.2	4.6	4.1	4.3	4.3	3.4	2.8	2.6	2.4
70.0		6.1	5.4		4.5	4.4		4.0	3.5		3.8	2.9		2.6	2.3
74.0			4.8			3.8		3.3	2.9		3.2	2.3		2.5	1.8
78.0									2.4			1.9			





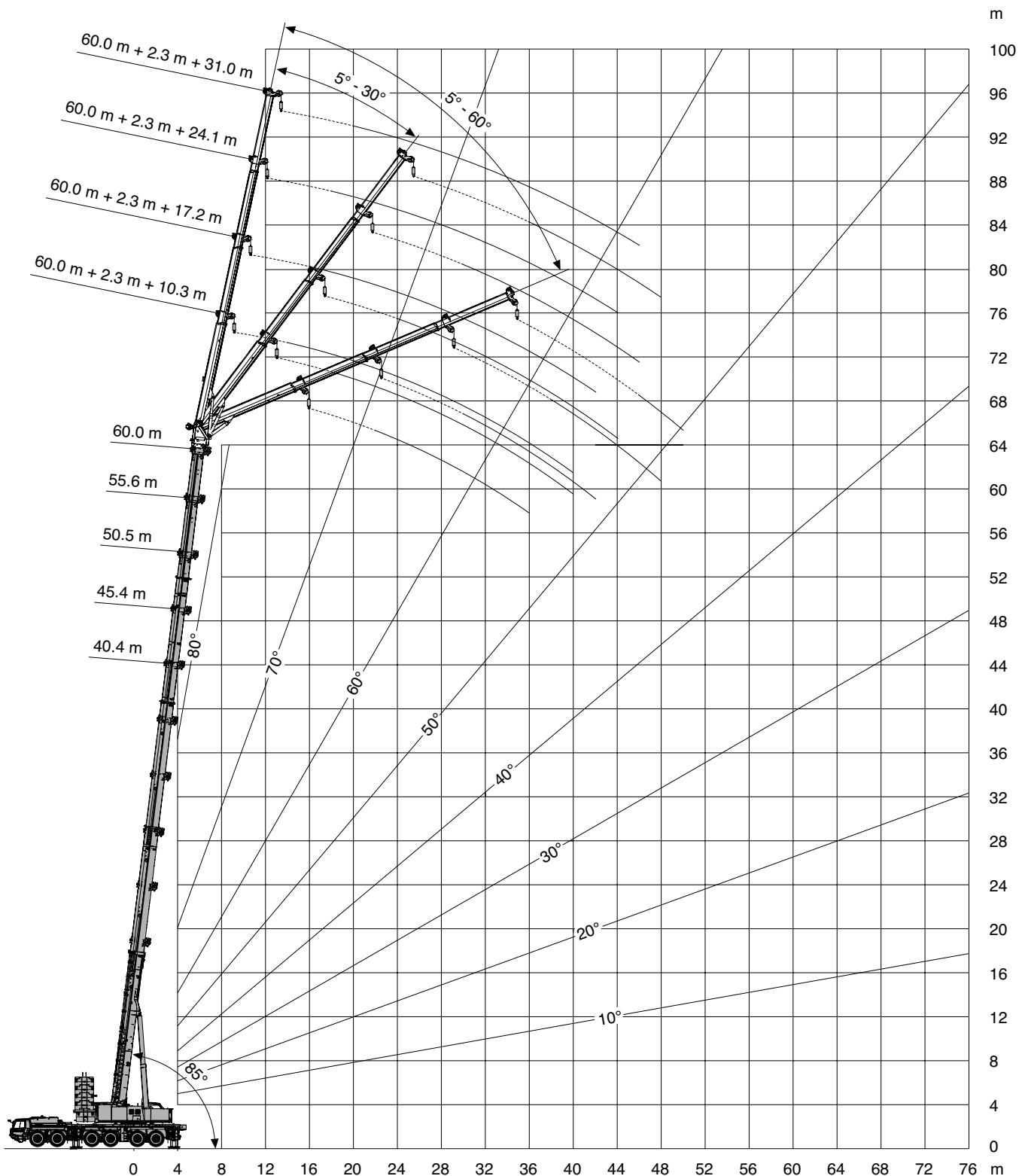
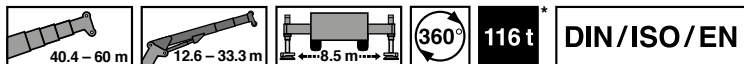
 m	35.3 m + 2.5 m + 70.0 m			40.4 m + 2.5 m + 70.0 m			45.4 m + 2.5 m + 70.0 m			50.5 m + 2.5 m + 70.0 m						
	83°	75°	68°	83°	75°	68°	83°	75°	68°	83°	75°	68°				
32.0	10.3															
34.0	10.2			8.0			6.1									
36.0	10.1			8.0			6.0			3.9						
38.0	10.0			7.9			5.9			3.8						
40.0	9.9			7.8			5.8			3.8						
42.0	9.8			7.8			5.8			3.8						
44.0	9.7			7.7			5.8			3.8						
46.0	9.7	9.1		7.6			5.7			3.8						
48.0	9.6	8.7		7.6	7.4		5.6			3.7						
50.0	9.5	8.4		7.5	7.1		5.6	5.6		3.7						
54.0	9.1	7.7		7.1	6.5		5.5	5.5		3.6	3.5					
58.0	8.2	7.1	5.8	6.4	6.0		5.4	5.4		3.6	3.4					
62.0	7.1	6.6	5.3	5.5	5.5	4.1	5.0	4.9	3.5	3.5	3.3					
66.0	6.2	6.2	4.9	4.7	4.9	3.7	4.2	4.2	3.0	3.5	3.3	2.1				
70.0	5.2	5.7	4.2	4.0	4.3	3.1	3.5	3.6	2.4	3.4	3.3	1.6				
74.0		5.1	3.6		3.6	2.5		3.1	1.9		3.0					
78.0			3.0		3.0	2.0		2.6			2.4					
82.0						1.5										



 m	35.3 m + 2.5 m + 76.0 m			40.4 m + 2.5 m + 76.0 m			45.4 m + 2.5 m + 76.0 m									
	83°	75°	68°	83°	75°	68°	83°	75°	68°							
34.0	8.6															
36.0	8.6			6.6			4.8									
38.0	8.5			6.5			4.8									
40.0	8.4			6.5			4.8									
42.0	8.3			6.4			4.7									
44.0	8.3			6.4			4.7									
46.0	8.2			6.3			4.6									
48.0	8.1	7.1		6.3			4.6									
50.0	8.0	6.8		6.3	5.9		4.6									
54.0	7.7	6.3		6.2	5.4		4.5	4.4								
58.0	7.3	5.8		6.0	4.9		4.4	4.4								
62.0	6.9	5.3	4.0	5.4	4.5		4.3	4.1								
66.0	6.2	4.9	3.7	4.7	4.1	2.7	4.1	3.7	2.1							
70.0	5.4	4.6	3.2	4.0	3.8	2.2	3.5	3.4	1.5							
74.0	4.6	4.2	2.6	3.4	3.5	1.7	3.0	3.0								
78.0		3.7	2.0		3.0		2.4	2.5								
82.0		3.1	1.6		2.4			2.0								

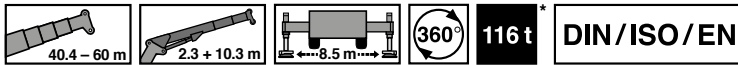
Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

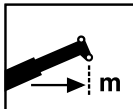
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона

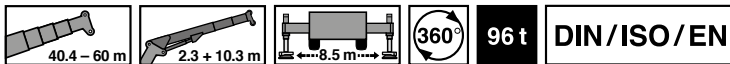


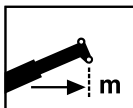
\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.

Lifting capacities · Traglasten · Charges de levage  
 Cargas · Portate · Грузоподъемность



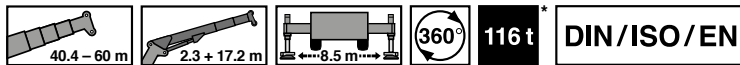
 m	40.4 m + 2.3 m + 10.3 m			45.4 m + 2.3 m + 10.3 m			50.5 m + 2.3 m + 10.3 m			55.6 m + 2.3 m + 10.3 m			60.0 m + 2.3 m + 10.3 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
9.0	38.4														
10.0	36.0			29.3											
11.0	33.8			27.6			21.2								
12.0	31.9			26.1			20.0			16.1					
14.0	28.6	25.2		23.5	20.5		17.8			15.6			13.2		
16.0	25.8	23.5	21.1	21.3	18.8		16.0	14.2		13.9			12.8		
18.0	23.5	21.6	20.3	19.5	17.4	15.4	14.5	13.1	11.0	12.5	11.2		11.5	10.5	
20.0	21.5	19.9	19.0	17.9	16.1	15.1	13.2	12.1	10.7	11.3	10.4	8.5	10.4	9.7	
22.0	19.8	18.5	17.7	16.5	15.0	14.1	12.1	11.1	10.5	10.3	9.6	8.2	9.4	8.9	8.3
24.0	18.3	17.2	16.5	15.3	14.0	13.2	11.1	10.3	9.7	9.3	8.8	8.0	8.2	8.0	7.7
26.0	17.0	16.0	15.5	14.2	13.1	12.5	10.2	9.5	9.1	8.1	7.8	7.5	7.1	7.0	6.7
28.0	15.8	15.0	14.6	13.3	12.3	11.8	9.3	8.7	8.3	7.0	6.8	6.6	6.1	6.0	5.9
30.0	13.9	14.0		12.1	11.6	11.2	8.3	7.8	7.5	6.1	6.0	5.8	5.2	5.2	5.1
32.0	12.1	12.7		10.8	10.7		7.4	7.0	6.7	5.2	5.2	5.0	4.4	4.4	4.3
34.0	10.5	11.1		9.7	9.6		6.6	6.3		4.5	4.4	4.3	3.6	3.7	3.6
36.0	9.1	9.6		8.3	8.7		5.8	5.6		3.8	3.8	3.7	3.0	3.1	3.0
38.0	7.9	8.3		7.1	7.6		5.1	4.9		3.1	3.2		2.3	2.5	
40.0	6.7	7.1		5.9	6.4		4.5	4.4		2.5	2.6		1.8	1.9	
42.0	5.7	6.0		4.9	5.4		4.0	3.8		2.0	2.1				
44.0	4.8	5.0		4.0	4.4		3.5	3.4		1.5	1.6				
46.0	3.9			3.2	3.5		2.8	2.9							
48.0	3.1			2.4	2.6		2.0	2.4							
50.0				1.7				1.6							



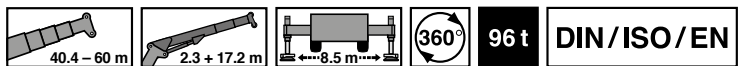
 m	40.4 m + 2.3 m + 10.3 m			45.4 m + 2.3 m + 10.3 m			50.5 m + 2.3 m + 10.3 m			55.6 m + 2.3 m + 10.3 m			60.0 m + 2.3 m + 10.3 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
9.0	38.4														
10.0	36.0			29.3											
11.0	33.8			27.6			21.2								
12.0	31.9			26.1			20.0			16.1					
14.0	28.6	25.2		23.5	20.5		17.8			15.6			13.2		
16.0	25.8	23.5	21.1	21.3	18.8		16.0	14.2		13.9			12.8		
18.0	23.5	21.6	20.3	19.5	17.4	15.4	14.5	13.1	11.0	12.5	11.2		11.5	10.5	
20.0	21.5	19.9	19.0	17.9	16.1	15.1	13.2	12.1	10.7	11.3	10.4	8.5	10.4	9.7	
22.0	19.8	18.5	17.7	16.5	15.0	14.1	12.1	11.1	10.5	10.3	9.6	8.2	9.4	8.9	8.3
24.0	18.3	17.2	16.5	15.3	14.0	13.2	11.1	10.3	9.7	9.3	8.8	8.0	8.2	8.0	7.7
26.0	17.0	16.0	15.5	14.2	13.1	12.5	10.2	9.5	9.1	8.1	7.8	7.5	7.1	7.0	6.7
28.0	15.8	15.0	14.6	13.3	12.3	11.8	9.3	8.7	8.3	7.0	6.8	6.6	6.1	6.0	5.9
30.0	13.9	14.0		12.1	11.6	11.2	8.3	7.8	7.5	6.1	6.0	5.8	5.2	5.2	5.1
32.0	12.1	12.7		10.8	10.7		7.4	7.0	6.7	5.2	5.2	5.0	4.4	4.4	4.3
34.0	10.5	11.1		9.7	9.6		6.6	6.3		4.5	4.4	4.3	3.6	3.7	3.6
36.0	9.1	9.6		8.3	8.7		5.8	5.6		3.8	3.8	3.7	3.0	3.1	3.0
38.0	7.9	8.3		7.1	7.6		5.1	4.9		3.1	3.2		2.3	2.5	
40.0	6.7	7.1		5.9	6.4		4.5	4.4		2.5	2.6		1.8	1.9	
42.0	5.7	6.0		4.9	5.4		4.0	3.8		2.0	2.1				
44.0	4.8	5.0		4.0	4.4		3.5	3.4		1.5	1.6				
46.0	3.9			3.2	3.5		2.8	2.9							
48.0	3.1			2.4	2.6		2.0	2.4							
50.0				1.7				1.6							

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

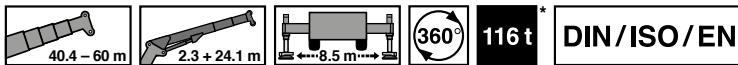



m	40.4 m + 2.3 m + 17.2 m			45.4 m + 2.3 m + 17.2 m			50.5 m + 2.3 m + 17.2 m			55.6 m + 2.3 m + 17.2 m			60.0 m + 2.3 m + 17.2 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
10.0	16.7														
11.0	16.7														
12.0	16.7			16.7											
14.0	16.7			16.7			16.5								
16.0	16.7			16.7			15.0			12.7			8.8		
18.0	16.7	16.7		16.7			13.6			11.6			8.8		
20.0	16.7	15.9		16.4	14.3		12.4			10.7			8.8		
22.0	16.7	15.2		15.2	13.3		11.4	9.8		9.8	8.3		8.8		
24.0	16.7	14.5	12.9	14.1	12.5		10.5	9.2		8.9	7.8		8.5	7.5	
26.0	15.9	13.9	12.5	13.1	11.7	10.1	9.7	8.7	7.7	8.0	7.3		7.5	7.0	
28.0	14.8	13.3	12.1	12.2	11.0	9.9	8.9	8.2	7.4	7.0	6.8	6.2	6.5	6.5	
30.0	13.9	12.8	11.8	11.4	10.3	9.7	8.2	7.6	7.1	6.1	6.1	5.9	5.6	5.7	5.7
32.0	13.0	12.2	11.6	10.7	9.7	9.2	7.3	6.9	6.6	5.3	5.3	5.3	4.9	5.0	5.0
34.0	11.9	11.5	11.2	10.0	9.2	8.7	6.5	6.2	6.0	4.6	4.7	4.6	4.1	4.3	4.3
36.0	10.5	10.9	10.6	9.1	8.7	8.3	5.9	5.6	5.4	3.9	4.1	4.0	3.5	3.7	3.7
38.0	9.3	10.1		8.2	8.0	7.7	5.2	5.0	4.9	3.3	3.5	3.5	2.9	3.2	3.2
40.0	8.2	9.0		7.4	7.4		4.6	4.5	4.4	2.8	3.0	3.0	2.3	2.6	2.7
42.0	7.1	7.9		6.4	6.8		4.1	4.0		2.3	2.5	2.5	1.8	2.1	2.2
44.0	6.2	6.9		5.5	6.1		3.6	3.6		1.8	2.0			1.7	
46.0	5.3	5.9		4.6	5.4		3.2	3.1			1.6				
48.0	4.6	5.0		3.8	4.5		2.7	2.7							
50.0	3.8	4.2		3.1	3.7		2.4	2.4							
54.0	2.5			1.9	2.2		1.5	1.7							

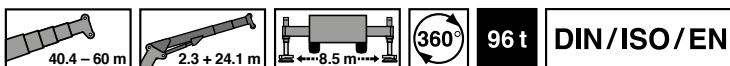



m	40.4 m + 2.3 m + 17.2 m			45.4 m + 2.3 m + 17.2 m			50.5 m + 2.3 m + 17.2 m			55.6 m + 2.3 m + 17.2 m			60.0 m + 2.3 m + 17.2 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
10.0	16.7														
11.0	16.7														
12.0	16.7			16.7											
14.0	16.7			16.7			16.5								
16.0	16.7			16.7			15.0			12.7			8.8		
18.0	16.7	16.7		16.7			13.6			11.6			8.8		
20.0	16.7	15.9		16.4	14.3		12.4			10.7			8.8		
22.0	16.7	15.2		15.2	13.3		11.4	9.8		9.8	8.3		8.8		
24.0	16.7	14.5	12.9	14.1	12.5		10.5	9.2		8.9	7.8		8.5	7.5	
26.0	15.9	13.9	12.5	13.1	11.7	10.1	9.7	8.7	7.7	8.0	7.3		7.5	7.0	
28.0	14.8	13.3	12.1	12.2	11.0	9.9	8.9	8.2	7.4	7.0	6.8	6.2	6.5	6.5	
30.0	13.9	12.8	11.8	11.4	10.3	9.7	8.2	7.6	7.1	6.1	6.1	5.9	5.6	5.7	5.7
32.0	13.0	12.2	11.6	10.7	9.7	9.2	7.3	6.9	6.6	5.3	5.3	5.3	4.9	5.0	5.0
34.0	11.9	11.5	11.2	10.0	9.2	8.7	6.5	6.2	6.0	4.6	4.7	4.6	4.1	4.3	4.3
36.0	10.5	10.9	10.6	9.1	8.7	8.3	5.9	5.6	5.4	3.9	4.1	4.0	3.5	3.7	3.7
38.0	9.3	10.1		8.2	8.0	7.7	5.2	5.0	4.9	3.3	3.5	3.5	2.9	3.2	3.2
40.0	8.2	9.0		7.4	7.4		4.6	4.5	4.4	2.8	3.0	3.0	2.3	2.6	2.7
42.0	7.1	7.9		6.4	6.8		4.1	4.0		2.3	2.5	2.5	1.8	2.1	2.2
44.0	6.2	6.9		5.5	6.1		3.6	3.6		1.8	2.0			1.7	
46.0	5.3	5.9		4.6	5.4		3.2	3.1			1.6				
48.0	4.6	5.0		3.8	4.5		2.7	2.7							
50.0	3.8	4.2		3.1	3.7		2.4	2.4							
54.0	2.5			1.9	2.2		1.5	1.7							

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.



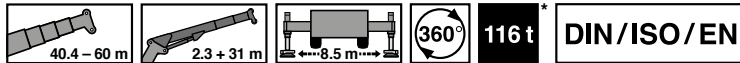
 m	40.4 m + 2.3 m + 24.1 m			45.4 m + 2.3 m + 24.1 m			50.5 m + 2.3 m + 24.1 m			55.6 m + 2.3 m + 24.1 m			60.0 m + 2.3 m + 24.1 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
14.0	16.0			14.5											
16.0	15.5			14.5			13.0								
18.0	15.0			14.1			12.4			10.3			7.8		
20.0	14.5			13.7			11.5			10.1			7.8		
22.0	13.9			13.4			10.7			9.3			7.8		
24.0	13.4	10.8		13.0			9.9			8.6			7.8		
26.0	12.9	10.5		12.1	10.1		9.1	7.5		8.0			7.5		
28.0	12.5	10.1		11.3	9.8		8.4	7.1		7.3	6.3		6.6		
30.0	12.1	9.8	8.5	10.6	9.4		7.8	6.8		6.5	5.9		5.8	5.3	
32.0	11.7	9.5	8.4	9.9	8.9	7.3	7.1	6.4		5.7	5.6		5.0	4.9	
34.0	11.3	9.3	8.3	9.3	8.4	7.2	6.4	6.1	5.4	5.0	5.1		4.4	4.5	
36.0	10.9	9.0	8.2	8.8	7.9	7.1	5.7	5.5	5.2	4.4	4.6	4.3	3.7	4.1	
38.0	10.2	8.8	8.1	8.2	7.5	7.0	5.1	5.0	4.8	3.8	4.0	4.0	3.2	3.5	3.5
40.0	9.1	8.5	8.0	7.5	6.9	6.5	4.6	4.5	4.4	3.2	3.5	3.6	2.6	3.0	3.2
42.0	8.1	8.2		6.9	6.4	6.1	4.1	4.0	3.9	2.7	3.0	3.1	2.1	2.6	2.7
44.0	7.2	8.0		6.2	5.9		3.6	3.6	3.5	2.3	2.6	2.7	1.7	2.1	2.3
46.0	6.3	7.3		5.6	5.5		3.2	3.2		1.9	2.2	2.3		1.7	1.9
48.0	5.6	6.5		4.9	5.1		2.8	2.8		1.5	1.8				1.5
50.0	4.9	5.7		4.2	4.7		2.4	2.5							
54.0	3.6	4.2		2.9	3.7		1.7	1.8							
58.0	2.5	2.9		1.8	2.4										
62.0	1.5														



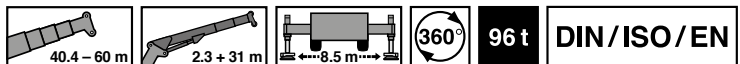
 m	40.4 m + 2.3 m + 24.1 m			45.4 m + 2.3 m + 24.1 m			50.5 m + 2.3 m + 24.1 m			55.6 m + 2.3 m + 24.1 m			60.0 m + 2.3 m + 24.1 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
14.0	16.0			14.5											
16.0	15.5			14.5			13.0								
18.0	15.0			14.1			12.4			10.3			7.8		
20.0	14.5			13.7			11.5			10.1			7.8		
22.0	13.9			13.4			10.7			9.3			7.8		
24.0	13.4	10.8		13.0			9.9			8.6			7.8		
26.0	12.9	10.5		12.1	10.1		9.1	7.5		8.0			7.5		
28.0	12.5	10.1		11.3	9.8		8.4	7.1		7.3	6.3		6.6		
30.0	12.1	9.8	8.5	10.6	9.4		7.8	6.8		6.5	5.9		5.8	5.3	
32.0	11.7	9.5	8.4	9.9	8.9	7.3	7.1	6.4		5.7	5.6		5.0	4.9	
34.0	11.3	9.3	8.3	9.3	8.4	7.2	6.4	6.1	5.4	5.0	5.1		4.4	4.5	
36.0	10.9	9.0	8.2	8.8	7.9	7.1	5.7	5.5	5.2	4.4	4.6	4.3	3.7	4.1	
38.0	10.2	8.8	8.1	8.2	7.5	7.0	5.1	5.0	4.8	3.8	4.0	4.0	3.2	3.5	3.5
40.0	9.1	8.5	8.0	7.5	6.9	6.5	4.6	4.5	4.4	3.2	3.5	3.6	2.6	3.0	3.2
42.0	8.1	8.2		6.9	6.4	6.1	4.1	4.0	3.9	2.7	3.0	3.1	2.1	2.6	2.7
44.0	7.2	8.0		6.2	5.9		3.6	3.6	3.5	2.3	2.6	2.7	1.7	2.1	2.3
46.0	6.3	7.3		5.6	5.5		3.2	3.2		1.9	2.2	2.3		1.7	1.9
48.0	5.6	6.5		4.9	5.1		2.8	2.8		1.5	1.8				1.5
50.0	4.9	5.7		4.2	4.7		2.4	2.5							
54.0	3.6	4.2		2.9	3.7		1.7	1.8							
58.0	2.5	2.9		1.8	2.4										
62.0	1.5														

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

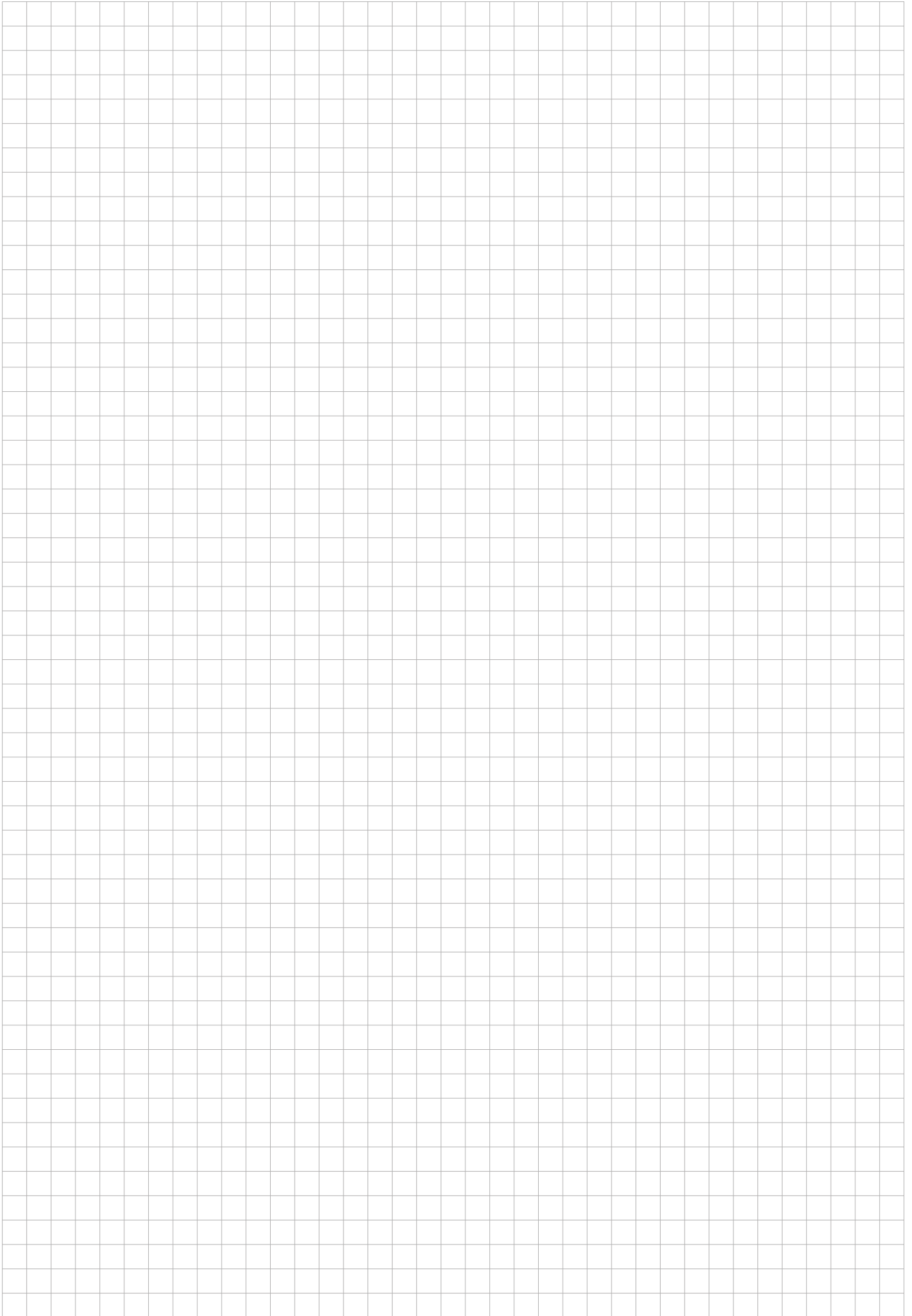


m	40.4 m + 2.3 m + 31.0 m			45.4 m + 2.3 m + 31.0 m			50.5 m + 2.3 m + 31.0 m			55.6 m + 2.3 m + 31.0 m			60.0 m + 2.3 m + 31.0 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
16.0	10.9			10.2											
18.0	10.8			10.0			9.3								
20.0	10.5			9.8			9.3			6.9			6.2		
22.0	10.3			9.6			9.2			6.9			6.2		
24.0	10.0			9.4			9.0			6.9			6.2		
26.0	9.7			9.2			8.7			6.9			6.2		
28.0	9.2			8.9			8.2			6.9			6.2		
30.0	8.8	6.7		8.6	6.5		7.7			6.5			5.8		
32.0	8.5	6.4		8.2	6.3		7.2	5.9		5.8			5.1		
34.0	8.1	6.2		7.9	6.1		6.6	5.6		5.1	4.9		4.4		
36.0	7.8	6.1		7.6	5.9		5.9	5.3		4.5	4.5		3.8	3.6	
38.0	7.5	5.9		7.4	5.7		5.3	5.1		3.9	4.1		3.3	3.3	
40.0	7.2	5.7	5.0	7.1	5.6	4.9	4.8	4.7		3.4	3.7		2.8	3.0	
42.0	7.0	5.5	5.0	6.9	5.4	4.9	4.3	4.3	4.0	3.0	3.3		2.3	2.7	
44.0	6.7	5.4	4.9	6.3	5.3	4.8	3.9	3.9	3.7	2.5	2.9	2.8	1.9	2.5	
46.0	6.5	5.3	4.8	5.8	5.2	4.7	3.4	3.5	3.5	2.1	2.5	2.6	1.5	2.1	2.2
48.0	6.3	5.1		5.4	5.0	4.7	3.0	3.1	3.1	1.7	2.1	2.3		1.7	2.0
50.0	5.9	5.0		5.0	4.7		2.7	2.8	2.8		1.8	2.0			1.6
54.0	4.6	4.8		3.9	4.0		2.0	2.2							
58.0	3.5	4.3		2.8	3.3			1.6							
62.0	2.5	3.1													
66.0	1.7														



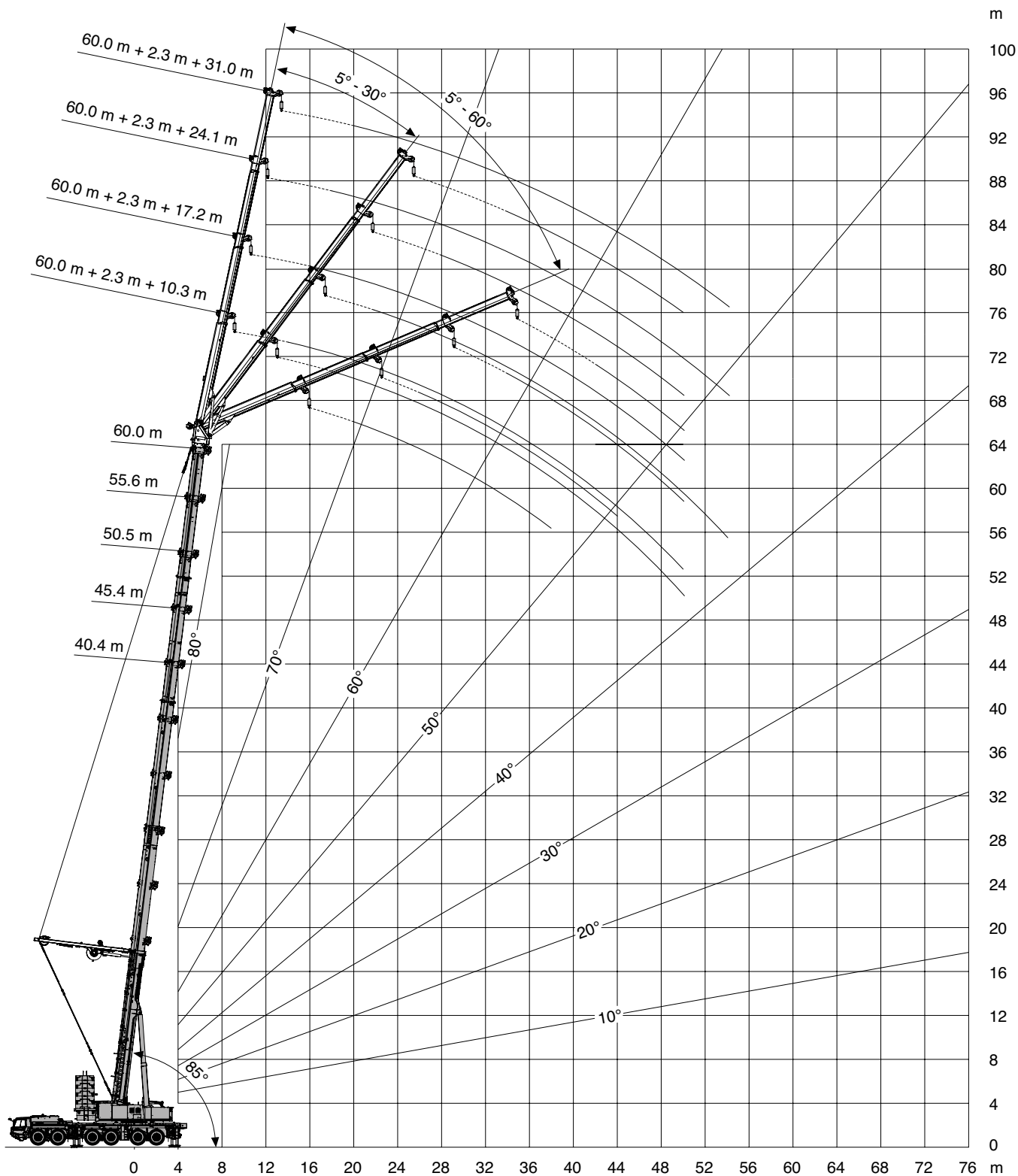
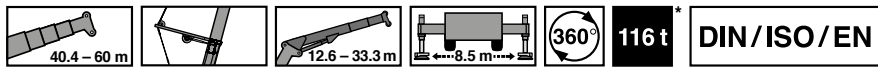
m	40.4 m + 2.3 m + 31.0 m			45.4 m + 2.3 m + 31.0 m			50.5 m + 2.3 m + 31.0 m			55.6 m + 2.3 m + 31.0 m			60.0 m + 2.3 m + 31.0 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
16.0	10.9			10.2											
18.0	10.8			10.0			9.3								
20.0	10.5			9.8			9.3			6.9			6.2		
22.0	10.3			9.6			9.2			6.9			6.2		
24.0	10.0			9.4			9.0			6.9			6.2		
26.0	9.7			9.2			8.7			6.9			6.2		
28.0	9.2			8.9			8.2			6.9			6.2		
30.0	8.8	6.7		8.6	6.5		7.7			6.5			5.8		
32.0	8.5	6.4		8.2	6.3		7.2	5.9		5.8			5.1		
34.0	8.1	6.2		7.9	6.1		6.6	5.6		5.1	4.9		4.4		
36.0	7.8	6.1		7.6	5.9		5.9	5.3		4.5	4.5		3.8	3.6	
38.0	7.5	5.9		7.4	5.7		5.3	5.1		3.9	4.1		3.3	3.3	
40.0	7.2	5.7	5.0	7.1	5.6	4.9	4.8	4.7		3.4	3.7		2.8	3.0	
42.0	7.0	5.5	5.0	6.9	5.4	4.9	4.3	4.3	4.0	3.0	3.3		2.3	2.7	
44.0	6.7	5.4	4.9	6.3	5.3	4.8	3.9	3.9	3.7	2.5	2.9	2.8	1.9	2.5	
46.0	6.5	5.3	4.8	5.8	5.2	4.7	3.4	3.5	3.5	2.1	2.5	2.6	1.5	2.1	2.2
48.0	6.3	5.1		5.4	5.0	4.7	3.0	3.1	3.1	1.7	2.1	2.3		1.7	2.0
50.0	5.9	5.0		5.0	4.7		2.7	2.8	2.8		1.8	2.0			1.6
54.0	4.6	4.8		3.9	4.0		2.0	2.2							
58.0	3.5	4.3		2.8	3.3			1.6							
62.0	2.5	3.1													
66.0	1.7														

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.



Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

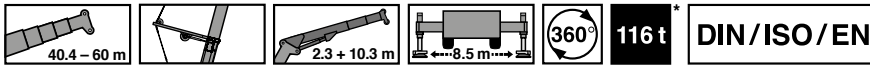
Working range · Arbeitsbereich · Rayon de travail  
 Zona de trabajo · Area di lavoro · Рабочая зона




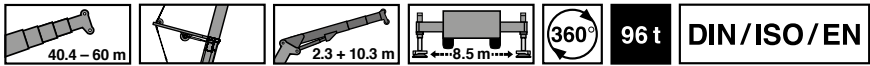
\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.




Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность



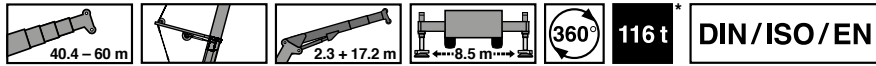
 m	40.4 m + 2.3 m + 10.3 m			45.4 m + 2.3 m + 10.3 m			50.5 m + 2.3 m + 10.3 m			55.6 m + 2.3 m + 10.3 m			60.0 m + 2.3 m + 10.3 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
9.0	38.6														
10.0	38.6			31.2											
11.0	38.6			31.2			25.2								
12.0	38.6			31.2			25.1			15.3					
14.0	38.6	30.3		31.2	23.8		23.0			15.3			12.6		
16.0	36.3	29.0	22.8	31.2	22.6	15.7	21.2	16.7		15.3	14.5		12.6		
18.0	31.7	27.8	22.4	29.7	21.6	15.4	19.7	15.7	11.0	15.3	13.5	8.8	12.6	12.6	
20.0	27.9	26.6	22.1	26.1	20.7	15.1	18.4	14.8	10.7	15.1	12.6	8.5	12.6	12.0	10.7
22.0	24.6	23.7	21.9	22.9	19.9	14.9	17.2	14.0	10.5	14.0	11.8	8.2	12.6	11.2	10.0
24.0	21.8	21.2	21.2	20.3	19.1	14.7	16.1	13.3	10.3	13.0	11.1	8.0	12.3	10.3	9.2
26.0	19.4	19.0	19.0	17.9	17.5	14.5	15.1	12.7	10.1	12.1	10.5	7.8	11.4	9.4	8.5
28.0	17.2	17.0	17.1	15.9	15.6	14.4	14.3	12.1	9.9	11.3	9.7	7.6	10.3	8.5	7.8
30.0	15.3	15.2		14.0	13.9	14.0	13.2	11.6	9.7	10.3	9.0	7.5	9.3	7.7	7.1
32.0	13.6	13.6		12.4	12.4		11.7	11.1	9.6	9.4	8.3	7.3	8.3	7.0	6.5
34.0	12.1	12.2		10.9	11.0		10.3	10.3	9.5	8.7	7.6	7.1	7.5	6.4	6.0
36.0	10.8	10.8		9.6	9.7		9.0	9.2		7.9	7.0	6.6	6.7	5.7	5.5
38.0	9.5	9.6		8.5	8.6		7.9	8.0		7.3	6.5		6.0	5.2	5.0
40.0	8.4	8.5		7.4	7.5		6.8	7.0		6.4	6.0		5.3	4.6	
42.0	7.4	7.5		6.4	6.5		5.9	6.1		5.4	5.5		4.6	4.2	
44.0	6.4	6.5		5.5	5.6		5.0	5.2		4.6	4.8		3.8	3.7	
46.0	5.4			4.6	4.8		4.2	4.4		3.8	4.0		3.0	3.3	
48.0	2.7			3.9	3.9		3.4	3.6		3.0	3.2		2.3	2.6	
50.0				3.1			2.7	2.9		2.4	2.5		1.6	1.9	
54.0				1.8			1.5								



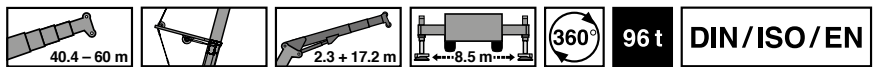
 m	40.4 m + 2.3 m + 10.3 m			45.4 m + 2.3 m + 10.3 m			50.5 m + 2.3 m + 10.3 m			55.6 m + 2.3 m + 10.3 m			60.0 m + 2.3 m + 10.3 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
9.0	38.6														
10.0	38.6			31.2											
11.0	38.6			31.2			25.2								
12.0	38.6			31.2			25.1			15.3					
14.0	38.6	30.3		31.2	23.8	23.8	23.0			15.3			12.6		
16.0	36.3	29.0	22.8	31.2	22.6	22.6	21.2	16.7		15.3	14.5		12.6		
18.0	31.7	27.8	22.4	29.7	21.6	21.6	19.7	15.7	11.0	15.3	13.5	8.8	12.6	12.6	
20.0	27.9	26.6	22.1	26.1	20.7	20.7	18.4	14.8	10.7	15.1	12.6	8.5	12.6	12.0	10.7
22.0	24.6	23.7	21.9	22.9	19.9	19.9	17.2	14.0	10.5	14.0	11.8	8.2	12.6	11.2	10.0
24.0	21.8	21.2	21.2	20.3	19.1	19.1	16.1	13.3	10.3	13.0	11.1	8.0	12.3	10.3	9.2
26.0	19.4	19.0	19.0	17.9	17.5	17.5	15.1	12.7	10.1	12.1	10.5	7.8	11.4	9.4	8.5
28.0	17.2	17.0	17.1	15.9	15.6	15.6	14.3	12.1	9.9	11.3	9.7	7.6	10.3	8.5	7.8
30.0	15.3	15.2		14.0	13.9	13.9	13.2	11.6	9.7	10.3	9.0	7.5	9.3	7.7	7.1
32.0	13.6	13.6		12.4	12.4	12.4	11.7	11.1	9.6	9.4	8.3	7.3	8.3	7.0	6.5
34.0	12.1	12.2		10.9	11.0	11.0	10.3	10.3	9.5	8.7	7.6	7.1	7.5	6.4	6.0
36.0	10.5	10.8		9.6	9.7	9.7	9.0	9.2		7.9	7.0	6.6	6.7	5.7	5.5
38.0	8.8	9.6		8.5	8.6	8.6	7.9	8.0		7.3	6.5		6.0	5.2	5.0
40.0	7.3	7.9		7.4	7.5	7.5	6.8	7.0		6.4	6.0		5.3	4.6	
42.0	5.9	6.4		6.1	6.5	6.5	5.9	6.1		5.4	5.5		4.1	4.2	
44.0	4.6	5.0		4.8	5.4	5.4	5.0	5.2		4.6	4.8			3.7	
46.0	3.5			3.7	4.2	4.2	4.1	4.4		3.8	4.0				
48.0	2.5			2.7	3.0	3.0	3.1	3.6		3.0	3.2				
50.0				1.8			2.2	2.5		2.4	2.5				

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация

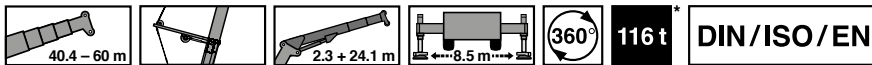


m	40.4 m + 2.3 m + 17.2 m			45.4 m + 2.3 m + 17.2 m			50.5 m + 2.3 m + 17.2 m			55.6 m + 2.3 m + 17.2 m			60.0 m + 2.3 m + 17.2 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
10.0	16.7														
11.0	16.7														
12.0	16.7			16.7											
14.0	16.7			16.7			16.7			12.5					
16.0	16.7			16.7			16.7			12.5			8.4		
18.0	16.7	16.7		16.7			16.6			12.5			8.4		
20.0	16.7	16.7		16.7	15.9		15.5	11.7		12.5			8.4		
22.0	16.7	16.7	13.1	16.7	15.2		14.5	11.1		12.1	9.7		8.4	8.4	
24.0	16.7	16.3	12.9	16.7	14.6	10.3	13.5	10.6	8.0	11.2	9.1		8.4	8.4	
26.0	16.7	15.7	12.7	16.7	14.0	10.1	12.7	10.0	7.8	10.5	8.6	7.6	8.4	7.7	6.6
28.0	16.6	15.2	12.5	15.4	13.5	9.9	12.0	9.6	7.6	9.8	8.1	7.1	8.4	7.1	6.1
30.0	15.0	14.7	12.4	13.7	13.0	9.8	11.3	9.1	7.5	9.0	7.5	6.6	8.2	6.4	5.7
32.0	13.5	13.5	12.3	12.3	12.4	9.6	10.7	8.7	7.3	8.2	6.9	6.1	7.3	5.9	5.2
34.0	12.1	12.2	12.2	11.0	11.2	9.5	10.1	8.3	7.2	7.5	6.4	5.7	6.6	5.4	4.8
36.0	10.9	11.1	11.3	9.8	10.0	9.4	9.2	8.0	7.1	6.9	5.9	5.3	5.9	4.9	4.4
38.0	9.8	10.0		8.7	9.0	9.3	8.2	7.7	6.9	6.3	5.4	4.9	5.3	4.4	4.0
40.0	8.8	9.0		7.8	8.1		7.2	7.3	6.6	5.7	5.0	4.6	4.7	4.0	3.7
42.0	7.8	8.1		6.9	7.2		6.3	6.7		5.2	4.6	4.2	4.2	3.6	3.3
44.0	7.0	7.2		6.0	6.4		5.5	5.9		4.8	4.2		3.8	3.2	3.0
46.0	6.2	6.4		5.3	5.6		4.8	5.1		4.3	3.8		3.3	2.9	
48.0	5.4	5.7		4.6	4.9		4.1	4.5		3.7	3.5		2.9	2.5	
50.0	4.8	4.9		3.9	4.2		3.5	3.8		3.0	3.2		2.4	2.2	
54.0	3.5			2.7	2.9		2.3	2.6		1.9	2.3			1.6	
58.0				1.7				1.5							

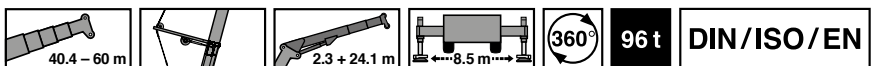


m	40.4 m + 2.3 m + 17.2 m			45.4 m + 2.3 m + 17.2 m			50.5 m + 2.3 m + 17.2 m			55.6 m + 2.3 m + 17.2 m			60.0 m + 2.3 m + 17.2 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
10.0	16.7														
11.0	16.7														
12.0	16.7			16.7											
14.0	16.7			16.7			16.7			12.5					
16.0	16.7			16.7			16.7			12.5			8.4		
18.0	16.7	16.7		16.7			16.6			12.5			8.4		
20.0	16.7	16.7		16.7	15.9		15.5	11.7		12.5			8.4		
22.0	16.7	16.7	13.1	16.7	15.2		14.5	11.1		12.1	9.7		8.4	8.4	
24.0	16.7	16.3	12.9	16.7	14.6	10.3	13.5	10.6	8.0	11.2	9.1		8.4	8.4	
26.0	16.7	15.7	12.7	16.7	14.0	10.1	12.7	10.0	7.8	10.5	8.6	7.6	8.4	7.7	6.6
28.0	16.6	15.2	12.5	15.4	13.5	9.9	12.0	9.6	7.6	9.8	8.1	7.1	8.4	7.1	6.1
30.0	15.0	14.7	12.4	13.7	13.0	9.8	11.3	9.1	7.5	9.0	7.5	6.6	8.2	6.4	5.7
32.0	13.5	13.5	12.3	12.3	12.4	9.6	10.7	8.7	7.3	8.2	6.9	6.1	7.3	5.9	5.2
34.0	12.1	12.2	12.2	11.0	11.2	9.5	10.1	8.3	7.2	7.5	6.4	5.7	6.6	5.4	4.8
36.0	10.9	11.1	11.3	9.8	10.0	9.4	9.2	8.0	7.1	6.9	5.9	5.3	5.9	4.9	4.4
38.0	9.8	10.0		8.7	9.0	9.3	8.2	7.7	6.9	6.3	5.4	4.9	5.3	4.4	4.0
40.0	8.8	9.0		7.8	8.1		7.2	7.3	6.6	5.7	5.0	4.6	4.7	4.0	3.7
42.0	7.8	8.1		6.9	7.2		6.3	6.7		5.2	4.6	4.2	4.2	3.6	3.3
44.0	7.0	7.2		6.0	6.4		5.5	5.9		4.8	4.2		3.8	3.2	3.0
46.0	5.8	6.4		5.3	5.6		4.8	5.1		4.3	3.8		3.3	2.9	
48.0	4.8	5.6		4.6	4.9		4.1	4.5		3.7	3.5			2.5	
50.0	3.8	4.4		3.9	4.2		3.5	3.8		3.0	3.2			2.2	
54.0	2.1			2.2	2.7		2.3	2.6		1.9	2.3				
58.0								1.5							

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.



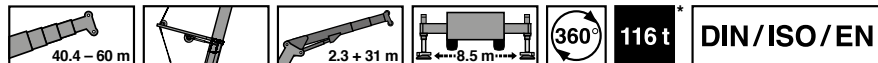
m	40.4 m + 2.3 m + 24.1 m			45.4 m + 2.3 m + 24.1 m			50.5 m + 2.3 m + 24.1 m			55.6 m + 2.3 m + 24.1 m			60.0 m + 2.3 m + 24.1 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
14.0	16.3			14.3											
16.0	16.0			14.3			12.3								
18.0	15.6			14.3			12.3			9.7			7.4		
20.0	15.2			14.3			12.3			9.7			7.4		
22.0	14.7	11.6		14.1			12.3			9.7			7.4		
24.0	14.2	11.3		13.9	11.1		11.7			9.7			7.4		
26.0	13.7	11.0		13.6	10.8		10.9	8.4		9.6	7.7		7.4		
28.0	13.2	10.6		13.2	10.5		10.3	8.0		9.0	7.2		7.4	5.9	
30.0	12.8	10.3	8.5	12.8	10.2	7.5	9.7	7.6		8.4	6.8		7.1	5.4	
32.0	12.4	10.0	8.4	11.9	10.0	7.3	9.2	7.2	6.2	7.7	6.3	5.5	6.4	5.0	
34.0	11.8	9.8	8.3	10.7	9.7	7.2	8.7	6.9	5.9	7.1	5.8	5.1	5.8	4.5	4.0
36.0	10.7	9.5	8.2	9.7	9.5	7.1	8.2	6.6	5.7	6.5	5.4	4.7	5.2	4.1	3.6
38.0	9.7	9.3	8.1	8.8	9.1	7.0	7.8	6.3	5.4	5.9	5.0	4.4	4.7	3.8	3.3
40.0	8.8	9.1	8.1	7.9	8.3	6.9	7.3	5.9	5.1	5.4	4.6	4.1	4.2	3.4	3.1
42.0	8.0	8.3	8.0	7.1	7.5	6.8	6.5	5.6	4.9	5.0	4.2	3.8	3.7	3.1	2.8
44.0	7.2	7.6		6.3	6.8	6.8	5.8	5.3	4.7	4.5	3.9	3.5	3.3	2.8	2.5
46.0	6.5	6.9		5.6	6.1		5.1	5.0	4.5	4.1	3.6	3.2	2.9	2.5	2.3
48.0	5.8	6.2		5.0	5.4		4.5	4.7	4.3	3.7	3.3	3.0	2.6	2.2	2.0
50.0	5.2	5.6		4.4	4.8		3.9	4.4		3.4	3.0	2.7	2.2	1.9	1.8
54.0	4.1	4.4		3.3	3.7		2.8	3.3		2.5	2.4		1.6		
58.0	3.1	3.3		2.3	2.7			1.6		1.6	2.0				
62.0	2.2			1.5	1.7										



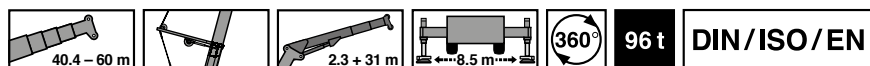
m	40.4 m + 2.3 m + 24.1 m			45.4 m + 2.3 m + 24.1 m			50.5 m + 2.3 m + 24.1 m			55.6 m + 2.3 m + 24.1 m			60.0 m + 2.3 m + 24.1 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
14.0	16.3			14.3											
16.0	16.0			14.3			12.3								
18.0	15.6			14.3			12.3			9.7			7.4		
20.0	15.2			14.3			12.3			9.7			7.4		
22.0	14.7	11.6		14.1			12.3			9.7			7.4		
24.0	14.2	11.3		13.9	11.1		11.7			9.7			7.4		
26.0	13.7	11.0		13.6	10.8		10.9	8.4		9.6	7.7		7.4		
28.0	13.2	10.6		13.2	10.5		10.3	8.0		9.0	7.2		7.4	5.9	
30.0	12.8	10.3	8.5	12.8	10.2	7.5	9.7	7.6		8.4	6.8		7.1	5.4	
32.0	12.4	10.0	8.4	11.9	10.0	7.3	9.2	7.2	6.2	7.7	6.3	5.5	6.4	5.0	
34.0	11.8	9.8	8.3	10.7	9.7	7.2	8.7	6.9	5.9	7.1	5.8	5.1	5.8	4.5	4.0
36.0	10.7	9.5	8.2	9.7	9.5	7.1	8.2	6.6	5.7	6.5	5.4	4.7	5.2	4.1	3.6
38.0	9.7	9.3	8.1	8.8	9.1	7.0	7.8	6.3	5.4	5.9	5.0	4.4	4.7	3.8	3.3
40.0	8.8	9.1	8.1	7.9	8.3	6.9	7.3	5.9	5.1	5.4	4.6	4.1	4.2	3.4	3.1
42.0	8.0	8.3	8.0	7.1	7.5	6.8	6.5	5.6	4.9	5.0	4.2	3.8	3.7	3.1	2.8
44.0	7.2	7.6		6.3	6.8	6.8	5.8	5.3	4.7	4.5	3.9	3.5	3.3	2.8	2.5
46.0	6.5	6.9		5.6	6.1		5.1	5.0	4.5	4.1	3.6	3.2	2.9	2.5	2.3
48.0	5.8	6.2		5.0	5.4		4.5	4.7	4.3	3.7	3.3	3.0	2.6	2.2	2.0
50.0	5.2	5.6		4.4	4.8		3.9	4.4		3.4	3.0	2.7	2.2	1.9	1.8
54.0	3.8	4.4		3.3	3.7		2.8	3.3		2.5	2.4				
58.0	2.3	2.9		2.3	2.7			1.6		1.6	2.0				
62.0					1.6										

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.

Operation · Einsatz · Utilisation  
 Uso · Эксплуатация



m	40.4 m + 2.3 m + 31.0 m			45.4 m + 2.3 m + 31.0 m			50.5 m + 2.3 m + 31.0 m			55.6 m + 2.3 m + 31.0 m			60.0 m + 2.3 m + 31.0 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
16.0	10.9														
18.0	10.9			10.2			8.9								
20.0	10.7			10.0			8.9			6.6			5.9		
22.0	10.5			9.8			8.9			6.6			5.9		
24.0	10.3			9.7			8.9			6.6			5.9		
26.0	10.0			9.5			8.9			6.6			5.9		
28.0	9.8	7.2		9.3			8.9			6.6			5.9		
30.0	9.4	7.0		9.2	6.9		8.8	6.8		6.6			5.9		
32.0	9.1	6.7		9.0	6.7		8.4	6.5		6.6	5.7		5.7		
34.0	8.7	6.5		8.7	6.5		7.9	6.2		6.5	5.3		5.2	4.0	
36.0	8.4	6.3	5.3	8.4	6.3		7.5	5.9		6.0	4.9		4.7	3.7	
38.0	8.0	6.1	5.2	8.1	6.1	5.2	7.1	5.6	4.7	5.5	4.5		4.2	3.3	
40.0	7.7	5.9	5.1	7.8	6.0	5.1	6.7	5.3	4.4	5.0	4.2	3.7	3.8	3.0	
42.0	7.5	5.8	5.1	7.2	5.8	5.1	6.4	5.0	4.2	4.6	3.8	3.4	3.4	2.7	2.4
44.0	7.2	5.6	5.0	6.5	5.6	5.0	6.0	4.7	4.0	4.2	3.5	3.1	3.0	2.5	2.2
46.0	6.7	5.5	5.0	5.9	5.5	5.0	5.4	4.5	3.8	3.8	3.2	2.9	2.7	2.2	2.0
48.0	6.1	5.3	5.0	5.3	5.4	4.9	4.8	4.2	3.6	3.5	3.0	2.7	2.3	2.0	1.8
50.0	5.5	5.2	4.9	4.8	5.2	4.9	4.3	4.0	3.5	3.1	2.7	2.4	2.0	1.7	1.6
54.0	4.5	5.0		3.7	4.3		3.3	3.5	3.1	2.5	2.2	2.0	1.5		
58.0	3.6	4.0		1.9	2.4		2.4	2.9		2.0	1.8				
62.0	2.7	3.1					1.6	2.1							
66.0	2.0	2.2													



m	40.4 m + 2.3 m + 31.0 m			45.4 m + 2.3 m + 31.0 m			50.5 m + 2.3 m + 31.0 m			55.6 m + 2.3 m + 31.0 m			60.0 m + 2.3 m + 31.0 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
16.0	10.9														
18.0	10.9			10.2			8.9								
20.0	10.7			10.0			8.9			6.6			5.9		
22.0	10.5			9.8			8.9			6.6			5.9		
24.0	10.3			9.7			8.9			6.6			5.9		
26.0	10.0			9.5			8.9			6.6			5.9		
28.0	9.8	7.2		9.3			8.9			6.6			5.9		
30.0	9.4	7.0		9.2	6.9		8.8	6.8		6.6			5.9		
32.0	9.1	6.7		9.0	6.7		8.4	6.5		6.6	5.7		5.7		
34.0	8.7	6.5		8.7	6.5		7.9	6.2		6.5	5.3		5.2	4.0	
36.0	8.4	6.3	5.3	8.4	6.3		7.5	5.9		6.0	4.9		4.7	3.7	
38.0	8.0	6.1	5.2	8.1	6.1	5.2	7.1	5.6	4.7	5.5	4.5		4.2	3.3	
40.0	7.7	5.9	5.1	7.8	6.0	5.1	6.7	5.3	4.4	5.0	4.2	3.7	3.8	3.0	
42.0	7.5	5.8	5.1	7.2	5.8	5.1	6.4	5.0	4.2	4.6	3.8	3.4	3.4	2.7	2.4
44.0	7.2	5.6	5.0	6.5	5.6	5.0	6.0	4.7	4.0	4.2	3.5	3.1	3.0	2.5	2.2
46.0	6.7	5.5	5.0	5.9	5.5	5.0	5.4	4.5	3.8	3.8	3.2	2.9	2.7	2.2	2.0
48.0	6.1	5.3	5.0	5.3	5.4	4.9	4.8	4.2	3.6	3.5	3.0	2.7	2.3	2.0	1.8
50.0	5.5	5.2	4.9	4.8	5.2	4.9	4.3	4.0	3.5	3.1	2.7	2.4	2.0	1.7	1.6
54.0	4.5	5.0		3.7	4.3		3.3	3.5	3.1	2.5	2.2	2.0			
58.0	3.6	4.0		1.9	2.4		2.4	2.9		2.0	1.8				
62.0	2.6	3.1					1.6	2.1							
66.0	2.0	2.2													

\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento de la capacidad de carga con contrapeso de 136 t. · Nessun aumento del carico massimo con contrappeso da 136 t. · Без повышения грузоподъемности при использовании противовеса 136 т.

# EQUIPMENT

AUSSTATTUNG

ÉQUIPEMENT

EQUIPAMIENTO

EQUIPAGGIAMENTO

ОБОРУДОВАНИЕ



## Equipment

### Carrier

**Frame:** Torsion-resistant, welded construction made from high-strength, fine-grained steel. Central lubrication system.

**Outriggers:** 4-point double telescopic hydraulic outriggers incl. asymmetric outrigger base and automatic length detection. Controls on both side of carrier and in superstructure cab. Outrigger base 8.5 m (8.0 m / 6.8 m / 5.5 m / 2.7 m) x 8.9 m.

**Engine:** Mercedes-Benz 6-cylinder model OM473LA (EU Stage IV / EPA Tier 4f), water-cooled diesel engine. Hydrostatically driven, electronically controlled fan, engine displacement 15.6 l, rated at 460 kW (625 HP) at 1700 min<sup>-1</sup>. Torque 2900 Nm at 1300 min<sup>-1</sup>. Engine rating acc. to ECE R120. Fuel tank: 660 l. AdBlue tank: 40 l.

**Transmission:** Main transmission: mechanical ZF-TC-Tronic transmission, type 12 TC 3041, with integrated intarder, electro-pneumatically actuated dry clutch and fully automatic transmission control system. 12 forward gears and 2 reverse gears. If necessary, semi-automatic mode (Tip-Tronic) is possible with manual gear selection.

**Drive:** 12 x 8

#### Axles:

1<sup>st</sup> axle: steered, driven; with differential lock, transverse.

2<sup>nd</sup> axle: steered, not driven.

3<sup>rd</sup> axle: steered, driven; with differential lock, transverse and longitudinal.

4<sup>th</sup> axle: steered, with connectable drive, with differential lock, transverse.

5<sup>th</sup> axle: steered, driven; with differential lock, transverse.

6<sup>th</sup> axle: steered, not driven.

**Suspension:** Hydro-pneumatic suspension with leveling adjustment; suspension cylinders electro-hydraulically lockable.

**Brake system:** Air-operated dual-circuit disc brake system with air drier. Parking brake: spring loaded type acting on 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> axles. Intarder and engine brake as continuous service brake.

**Tyres:** (12) 445/95 R 25 (16.00 R 25).

**Steering system:** ZF Servocom, dual-circuit hydraulic steering with emergency steering pump. Mechanical steering of 1st and 2nd axles. In "On-road" mode, automatic electronic steering of the axles 3 - 6 up to a speed of 25 km/h. As of a speed of 25 km/h, the axles 4 and 5 are locked in straight-ahead position and, as of a speed of 50 km/h, axles 3 and 6 additionally.

**Carrier cab:** Two man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, central locking system, air-cushioned seats, driver's seat offering various adjustment options, with memory function and heater, engine dependent water heater, air conditioning, Bluetooth hands-free equipment, multifunction display, rear view camera, radio/CD player with USB port, control and operating elements for driving operation, Cruise Control and hill braking feature.

**Electrical system:** 24 volt DC system, 2 batteries, wiring to CAN bus component with integral self-test CSS system, outrigger area lighting. Electrical system conforms with ECE regulations.

**Optional equipment:** (at extra charge)

Towing attachment, autonomous supplementary heating with engine-preheater, ABS, 525/80 R 25 (20.5 R 25) tyres, spare wheel, special paint and lettering. Further optional equipment available upon request.

### Superstructure

**Frame:** Torsion-resistant welded structure with three-race roller bearing slewing ring with external gearing, rotating through 360°. Central lubrication system.

**Engine:** Mercedes-Benz 6 cylinder model OM936LA (EU Stage IV / EPA Tier 4f), water-cooled diesel engine. Engine speed can be varied progressively via a pedal. Engine displacement 7.7 l. Rated at 205 kW (279 HP) at 1900 min<sup>-1</sup>. Torque 1150 Nm at 1200-1600 min<sup>-1</sup>. Engine rating acc. to ECE R120. Fuel tank: 230 l. AdBlue tank: 19 l.

**Hydraulic system:** Three-circuit diesel-hydraulic system, 1 power-controlled axial-piston twin pump (hydraulically adjustable) with accumulative power control for telescoping, boom elevation and main winch, 1 axial-piston pump for the swing mechanism and counterweight cylinder, 1 geared pump for control oil supply, 1 oil cooler and 1 supplementary oil cooler.

**Controls:** Electrically pre-controlled, 2 joy-stick levers.

**Telescopic boom:** Five-section telescopic boom made of high-tensile fine-grained steel, consisting of 1 base section and 4 telescoping sections, 1 telescopic cylinder, extendable hydraulically under partial load. 15.0 m to 60.0 m long. Boom head with 7 sheaves, optionally available with another 2 sheaves.

**Boom elevation:** One differential cylinder with attached brake and holding valve.

**Main winch:** Axial-piston variable-displacement motor, hoisting gear drum with integrated planetary gears and hydraulically controlled spring-loaded multiple disc brake and integrated free rotation (no sagging of the load when hoisting). Drum rotation indicator, hoist cable with "Super Stop" easy reeving system. Camera system for monitoring the rope.

**Slewing system:** Axial-piston constant motor, three-stage planetary reduction with foot-actuated or automatic service and parking brake. Open hydraulic circuit with swing mechanism lock-out. Swing speed steplessly variable from 0 to 1.1 min<sup>-1</sup>.

**Counterweight:** Total 136 t, divisible. Remote-controlled.

**Superstructure cab:** Spacious crane cab of composite steel / plastic design with tempered tinted glass windows, tiltable cockpit with mechanically cushioned adjustable driver's seat with heater, engine-fed warm water heater unit and autonomous supplementary heater (with engine pre-heating), air conditioning, radio / CD player, controls and instrumentation for crane operation.

**Electrical system:** 24 V DC, 2 batteries, 1 working floodlight on base boom, 2 integrated in crane cab.

**Safety devices:** 'Lift Adjuster', electronic load moment limiter (LMB) with pilot lamp in several colors, anemometer, slewing area and working range limitation with 'Slow-Stop' feature, hoist limit switch, lower limit switch, safety valves protect against pipe and hose failures.

**Optional equipment:** (at extra charge)

Fixed jib 6 m to 24 m. Tiltable jib 2.0 m + 3.5 m and 2.0 m + 3.5 m to 2.0 m + 47.5 m, mechanically tiltable 0°/20°/40°, hydraulically tiltable 0° to 40°. Luffing jibs 2.5 m + 20.3 m to 2.5 m + 76 m and 2.5 m + 46 m to 2.5 m + 64 m (light), main boom offset positions 83°/75°/68°. Hydraulically telescopable and tiltable jib HTLJ 2.3 m + 10.3 m to 2.3 m + 31 m, hydraulically tiltable from 5° to 60°. Telescopic boom suspension system "Power System". 12.5 t hook tackle, selection of hook blocks of the type 40 to 250, 2<sup>nd</sup> winch. Special paint and lettering. Further optional equipment available upon request.

## Unterwagen

**Rahmen:** Verwindungs- und biegesteife Schweißkonstruktion aus hochfestem Feinkornstahl. Zentralschmieranlage.

**Abstützung:** Hydraulische 4-Punkt-Doppelteleskopabstützung inkl. asymmetrischer Abstützbasis und automatischer Längenerkennung, Bedienungsmöglichkeiten an beiden Seiten des Fahrgestelles und in der Oberwagenkabine.

Abstützbasis 8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Motor:** Mercedes-Benz 6-Zylinder-Dieselmotor OM473LA (EU Stage IV / EPA Tier 4f), wassergekühlt, hydrostatisch angetriebener Lüfter mit elektronischer Regelung, Hubraum 15,6 l, Leistung 460 kW (625 PS) bei 1700 min<sup>-1</sup>. Drehmoment 2900 Nm bei 1300 min<sup>-1</sup>. Motorleistung nach ECE R120. Kraftstoffbehälter: 660 l. AdBlue-Behälter: 40 l.

**Getriebe:** Hauptgetriebe ZF-TC-Tronic 12 TC 3041, mechanisches Schaltgetriebe mit integriertem Intarder, elektronisch-pneumatisch betätigter Trockenkupplung und vollautomatischer Schaltung mit 12 Vorwärts- und 2 Rückwärtsgängen. Bei Bedarf teilautomatischer Betrieb (Tip-Tronic) mit manueller Gangwahl möglich.

**Antrieb:** 12 x 8

**Achsen:**

1. Achse: gelenkt, angetrieben, Differentialsperre quer.
2. Achse: gelenkt, nicht angetrieben.
3. Achse: gelenkt, angetrieben, Differentialsperre längs und quer.
4. Achse: gelenkt, mit zuschaltbarem Antrieb, Differentialsperre quer.
5. Achse: gelenkt, angetrieben, Differentialsperre quer.
6. Achse: gelenkt, nicht angetrieben.

**Achsaufhängung:** Hydropneumatische Federung mit Niveauregulierung, Federungszyylinder elektro-hydraulisch blockierbar.

**Bremsen:** Druckluft-Zweikreis-Scheibenbremsanlage mit Lufttrockner. Feststellbremse als Federspeicherbremse an der 3., 4., 5. und 6. Achse wirkend. Intarder und Motorbremse als Dauerbremse.

**Räder:** 12-fach 445/95 R 25 (16.00 R 25).

**Lenkung:** ZF-Servocom-Zweikreishydraulenlenkung mit Notlenk-pumpe. Mechanische Lenkung der 1. und 2. Achse. Im Betriebsmodus "Straße" werden die Achsen 3-6 bis zu einer Geschwindigkeit von 25 km/h elektronisch mitgelenkt. Ab einer Geschwindigkeit von 25 km/h werden die Achsen 4 und 5 in Geradeausposition verriegelt und ab einer Geschwindigkeit von 50 km/h zusätzlich die Achsen 3 und 6.

**Unterwagenkabine:** Zwei-Mann-Frontfahrerhaus in Stahl-Kunststoff-Verbund-Konstruktion, Sicherheitsverglasung, Zentralverriegelung, luftgefederte Sitze, Fahrersitz vielseitig einstellbar mit Memoryfunktion und beheizbar, motorabhängige Wasserheizung, Klimaanlage, Bluetooth Freisprecheinrichtung, Multifunktionsdisplay, Rückfahrkamera, Radio/CD-Player mit USB Anschluss, Kontroll- und Bedienungselemente für den Fahrbetrieb, Tempomat- / Bremsomat-Funktion.

**Elektrische Anlage:** 24 Volt-Gleichstrom, 2 Batterien, Verdrahtung mit CAN-Bus-Komponente mit integriertem CSS-System zur Eigendiagnose, Abstützfeldbeleuchtung. Die elektrische Anlage entspricht der ECE-Richtlinie.

**Zusatzrüstung:** (gegen Mehrpreis) Anhängerkupplung, motorunabhängige Zusatzheizung mit Motorvorwärmung, ABS, 525/80 R 25 (20.5 R 25) Bereifung, Reserverad, Sonderlackierung und Beschriftung. Weitere Zusatzrüstung auf Anfrage.

## Oberwagen

**Rahmen:** Verwindungssteife Schweißkonstruktion mit einer außenverzahnten, dreireihigen Rollendrehverbindung, um 360° unbegrenzt drehbar. Zentralschmieranlage.

**Motor:** Mercedes-Benz 6-Zylinder-Dieselmotor OM936LA (EU Stage IV / EPA Tier 4f), wassergekühlt. Drehzahl ist über Fußpedal stufenlos regelbar. Hubraum 7,7 l. Leistung 205 kW (279 PS) bei 1900 min<sup>-1</sup>. Drehmoment 1150 Nm bei 1200-1600 min<sup>-1</sup>, Motorleistung nach ECE R120. Kraftstoffbehälter: 230 l. AdBlue-Behälter: 19 l.

**Hydraulik System:** Diesel-hydraulisch mit 3-Kreishydraulik, 1 leistungsgeregelte Axialkolbendoppelpumpe (hydraulisch verstellbar) mit Summenschaltung für Teleskopieren, Wippen und Hubwerk, 1 Axialkolbenpumpe für Drehwerk und Gegengewichtszylinder, 1 Zahnradpumpe für Steuerölversorgung, 1 Ölkühler und 1 Zusatzölkühler.

**Steuerung:** Zwei 4-fach Kreuzsteuerhebel mit elektrischer Vorsteuerung.

**Teleskopausleger:** Fünfteiliger Teleskopausleger aus hochfestem Feinkornstahl, bestehend aus einem Grundausleger und 4 Teleskopteilen, 1 Teleskopzylinder, hydraulisch unter Teillast teleskopierbar. 15,0 m - 60,0 m lang. Rollenkopf mit 7 Seilrollen, optional erweiterbar um 2 Seilrollen.

**Wippwerk:** Ein Differentialzylinder mit angebautem Senkbremsventil.

**Hubwerk:** Axialkolben-Verstell-Motor, Hubwerkstrommel mit eingebautem Planetengetriebe und federbelasteter Hydro-Lamellenbremse mit integriertem Freilauf beim Heben. Seilwindendrehmelder, Hubseil mit 'Super-Stop' Einrichtung. Kamerasystem zur Seilüberwachung.

**Drehwerk:** Axialkolben-Konstant-Motor, dreistufiges Planetengetriebe mit fußbetätigter oder automatischer Betriebs- und Feststellbremse. Offener Hydraulikkreislauf mit Drehwerk-Freischaltung. Drehgeschwindigkeit stufenlos von 0-1,1 min<sup>-1</sup>.

**Gegengewicht:** Gesamtgewicht 136 t, teilbar. Die Bedienung erfolgt mittels einer Fernbedieneinheit.

**Oberwagenkabine:** Großräumige Krankabine in Stahl-Kunststoffausführung mit Sicherheitsverglasung und getönten Scheiben, kippbarem Arbeitsplatz mit verstellbarem, mechanisch gedämpftem Fahrersitz mit Heizung, motorabhängige Warmwasserheizung und motorunabhängige Zusatzheizung (mit Motorvorwärmung), Klimaanlage, Radio-CD-Player, Kontroll- und Bedienungselemente.

**Elektrische Anlage:** 24 Volt-Gleichstrom, 2 Batterien, 1 Arbeitsscheinwerfer am Grundausleger, 2 integriert in die Krankabine.

**Sicherheitseinrichtungen:** „Lift-Adjuster“, elektronische Lastmomentbegrenzung (LMB) mit Ampelkennleuchte, Windmesser, Dreh- und Arbeitsbereichsbegrenzung mit „Slow-Stop“ Funktion, Hubenschalter, Windenenschalter, Sicherheitsventile gegen Rohr- und Schlauchbrüche.

**Zusatzrüstung:** (gegen Mehrpreis) Starre Auslegerverlängerung 6 m bis 24 m. Abwinkelbare Auslegerverlängerungen 2,0 m + 3,5 m und 2,0 m + 11,5 m bis 2,0 m + 47,5 m, mechanisch abwinkelbar 0°/20°/40°, hydraulisch abwinkelbar 0° bis 40°. Wippbare Auslegerverlängerungen 2,5 m + 20,3 m bis 2,5 m + 76 m und 2,5 m + 46 m bis 2,5 m + 64 m (leicht), Hauptauslegerwinkelstellungen 83°/75°/68°. Hydraulisch teleskopier- und abwinkelbare Auslegerverlängerung HTLJ 2,3 m + 10,3 m bis 2,3 m + 31 m, hydraulisch abwinkelbar 5° bis 60°. Teleskopausleger-Abspannung „Power System“. 12,5 t Hakengeschirr, Unterflaschen von Typ 40 bis 250, 2. Hubwinde. Sonderlackierung und Beschriftung. Weitere Zusatzrüstung auf Anfrage.



# Équipement

## Châssis

**Châssis:** Construction mécano-soudée, en acier à grain fin très rigide, résistant aux flexions et aux torsions. Système de graissage centralisé.

**Calage:** Dispositif de calage horizontal et vertical double en 4 points, entièrement déployable hydrauliquement, y compris distance entre appuis asymétrique et détection de longueur automatique, commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure.  
Calage 8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Moteur:** Mercedes-Benz diesel 6 cylindres, modèle OM473LA (EU Stage IV / EPA Tier 4f), refroidi par eau. Soufflante à entraînement hydrostatique avec régulation électronique, cylindrée 15,6 l, puissance 460 kW (625 CV) à 1700 min<sup>-1</sup>. Couple 2900 Nm à 1300 min<sup>-1</sup>. Puissance moteur selon ECE R120. Capacité du réservoir: 660 l. Capacité du réservoir AdBlue: 40 l.

**Boîte de vitesse:** Boîte principale ZF-TC-Tronic, modèle 12 TC 3041, boîte de vitesses mécanique avec intarder intégré, embrayage à sec électro-pneumatique et commande des vitesses complètement automatique avec 12 vitesses AV et 2 vitesses AR. Si nécessaire, mode partiellement automatique (Tip-Tronic) avec sélection de vitesses manuelle possible.

**Entraînement:** 12 x 8

### Essieux:

1<sup>er</sup> essieu: directeur, entraîné, blocage de différentiel transversal.

2<sup>ème</sup> essieu: directeur, non entraîné.

3<sup>ème</sup> essieu: directeur, entraîné, blocage de différentiel transversal et longitudinal.

4<sup>ème</sup> essieu: directeur, avec entraînement connectable, blocage de différentiel transversal.

5<sup>ème</sup> essieu: directeur, entraîné, blocage de différentiel transversal.

6<sup>ème</sup> essieu: directeur, non entraîné.

**Suspension:** Suspension hydro-pneumatique avec réglage de niveau, vérins de suspension blocables électro-hydrauliquement.

**Freins:** Système de frein à disque à air comprimé, à deux circuits, avec sécheur d'air. Le frein de stationnement agit sur les essieux 3, 4, 5 et 6 comme frein à ressorts accumulateurs. Intarder et frein moteur comme frein continu.

**Pneus:** 12 x 445/95 R 25 (16.00 R 25).

**Direction:** Marque ZF Servocom hydraulique à double circuit, avec pompe de secours pour direction Direction mécanique des 1<sup>er</sup> et 2<sup>ème</sup> essieux: En mode "route", les essieux 3 à -6 sont dirigés automatiquement et électroniquement jusqu'à une vitesse de 25 km/h. A partir d'une vitesse de 25 km/h, les essieux 4 et 5 sont verrouillés en position de "ligne droite" et, à partir d'une vitesse de 50 km/h, de plus les essieux 3 et 6.

**Cabine:** Cabine bi-place, construction en matière combinée (acier/matière plastique), vitres en verre de sécurité, système de verrouillage central, sièges à suspension pneumatique, siège du conducteur à plusieurs réglages, avec fonction de mémoire et chauffage, chauffage d'eau alimenté par le moteur, climatiseur, dispositif mains libres Bluetooth, affichage multi-fonctions, caméra de recul, radio / CD-player avec connecteur USB, éléments de contrôle et de commande pour la conduite, régulateur de vitesse, système automatique de freinage.

**Système électrique:** 24 V courant continu, 2 batteries, câblage au composant du bus CAN avec système autodiagnostic CSS intégré, éclairage de la distance entre appuis. Conforme à la norme ECE.

**Équipement supplémentaire:** (avec supplément de prix)  
Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, système ABS, pneus 525/80 R 25 (20.5 R 25), roue de secours, peinture spéciale et inscription. Autres équipements supplémentaires sur demande.

## Superstructure

**Plate forme:** Construction mécano-soudée résistante à la torsion. Couronne d'orientation à billes à une rangée, à denture extérieure, permettant la rotation illimitée sur 360°. Système de graissage centralisé.

**Moteur:** Mercedes-Benz diesel 6 cylindres, modèle OM936LA (EU Stage IV / EPA Tier 4f), refroidi par eau. La vitesse peut être réglée progressivement par une pédale. Cylindrée 7,7 l. Puissance 205 kW (279 CV) à 1900 min<sup>-1</sup>. Couple 1150 Nm à 1200-1600 min<sup>-1</sup>. Puissance moteur selon ECE R120. Capacité du réservoir: 230 l. Capacité du réservoir AdBlue: 19 l.

**Système hydraulique:** Système diesel-hydraulique à trois circuits, 1 double pompe à piston axial réglée en fonction de la puissance (à réglage hydraulique) avec circuit de la somme pour les mécanismes de télescopage, de relevage et de levage, 1 pompe à piston axial pour le groupe de rotation et vérins de contrepoids, 1 pompe à engrenages pour l'alimentation en huile de commande; 1 radiateur d'huile et 1 radiateur d'huile supplémentaire.

**Commande:** 2 manipulateurs à commande en croix (4 sens), assistés électriquement.

**Flèche télescopique:** Flèche télescopique à cinq éléments, en acier à texture fine et très résistant, se composant d'une flèche de base et de 4 éléments télescopiques, 1 vérin de télescopage, télescopable hydrauliquement sous charge partielle. Longueur 15,0 m à 60,0 m. Tête à poulie avec 7 poulies, pouvant être élargi en option de 2 poulies.

**Mécanisme de relevage:** 1 vérin différentiel muni d'un limiteur de vitesse en descente.

**Mécanisme de levage:** Moteur à cylindrée variable à piston axial, tambour de levage avec boîte planétaire incorporé et frein d'arrêt à disques multiples hydraulique à ressort, libéré lors du levage. Indicateur de rotation du treuil de câble, câble de levage avec dispositif "Super-Stop". Système de camera pour la surveillance du câble.

**Groupe de rotation:** Moteur à cylindrée constante à pistons axiaux, avec engrenage planétaire de trois étages avec frein de service et d'arrêt actionné à pied ou automatique. Circuit hydraulique ouvert avec déconnexion du groupe de rotation. Vitesse de rotation réglable progressivement de 0-1,1 min<sup>-1</sup>.

**Contrepoids:** Total 136 t, divisible. Commande à distance.

**Cabine du grutier:** Cabine de grue spacieuse, construction en matière composite acier / synthétique, vitrage de sécurité en verre teinté, place de travail inclinable avec siège du conducteur réglable, amorti mécaniquement, chauffant; chauffage à eau chaude alimenté par le moteur et chauffage auxiliaire autonome avec préchauffage du moteur, climatiseur, radio / CD-player, éléments de commande et de contrôle.

**Système électrique:** 24 V courant continu, 2 batteries, 1 phare de travail sur la flèche de base, 2 intégrés dans la cabine de grue.

**Dispositifs de sécurité:** `Lift Adjuster`, contrôleur de l'état de charge (CEC) électronique avec lampe de signalisation, anémomètre, limitation du rayon de rotation et du rayon de travail avec fonction 'Slow-Stop', interrupteur fin de course de levage, interrupteur fin de course de treuil, soupapes de sécurité contre les ruptures de tuyaux et flexibles.

**Équipement supplémentaire:** (avec supplément de prix)  
Rallonge de flèche rigide 6 m à 24 m. Rallonges de flèche inclinables 2,0 m + 3,5 m et 2,0 m + 3,5 m à 2,0 m + 47,5 m, inclinable mécaniquement 0°/20°/40°, inclinable hydrauliquement 0° à 40°. Rallonges de flèche relevables 2,5 m + 20,3 m à 2,5 m + 76 m et 2,5 m + 46 m à 2,5 m + 64 m (léger), positions angulaires de la flèche principale 83°/75°/68°. Rallonge de flèche télescopable et inclinable hydrauliquement HTLJ 2,3 m + 10,3 m à 2,3 m + 31 m, inclinable hydrauliquement 5° à 60°. Équipement de haubanage de la flèche télescopique "Power System". Ensemble de crochet porte-charge de 12,5 t, moufles du type 40 a 250, 2<sup>ème</sup> treuil de levage. Peinture spéciale et inscription. Autres équipements supplémentaires sur demande.



## Chasis

**Bastidor:** Construcción de acero de alta resistencia soldado, resistente a la torsión y a la flexión. Sistema de engrase central.

**Estabilización:** Estabilizadores telescópicos hidráulicos dobles de 4 puntos, incl. base de apoyo asimétrica y detección automática de longitud, posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa.

Extensión de los estabilizadores:  
8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Motor:** Mercedes-Benz de 6 cilindros diesel, modelo OM473LA (EU Stage IV / EPA Tier 4f), refrigerado por agua, ventilador con propulsión hidrostática y regulación electrónica. Cilindrada 15,6 l. Potencia: 460 kW (625 CV) a 1.700 min<sup>-1</sup>. Par: 2.900 Nm a 1.300 min<sup>-1</sup>. Potencia del motor según ECE R120. Depósito de combustible: 660 l. Depósito AdBlue: 40 l.

**Transmisión:** Transmisión principal mecánica del tipo ZF-TC-Tronic 12 TC 3041 con intarder integrado, con embrague en seco con accionamiento electro-neumático y cambio automático con 12 marchas delanteras y 2 marchas traseras. Si fuera necesario, se puede operar la transmisión en forma parcialmente automática (Tip-Tronic), seleccionando las marchas manualmente.

**Tracción:** 12 x 8

**Ejes:**

1° eje: de dirección, accionado, con bloqueo diferencial transversal.

2° eje: de dirección, no accionado.

3° eje: de dirección, accionado, con bloqueo diferencial longitudinal y transversal.

4° eje: de dirección, con accionamiento conectable, con bloqueo diferencial transversal.

5° eje: de dirección, accionado, con bloqueo diferencial transversal.

6° eje: de dirección, no accionado.

**Suspensión de los ejes:** Suspensión hidroneumática con regulación de nivel, posibilidad de bloqueo electro-hidráulico de los cilindros de suspensión.

**Frenos:** Sistema de frenos de disco neumático de doble circuito con secador de aire. Freno de estacionamiento del tipo freno de muelle, accionando en los ejes 3, 4, 5 y 6. Intarder y freno de motor como freno continuo.

**Neumáticos:** 12 x 445/95 R 25 (16.00 R 25).

**Dirección:** Dirección hidráulica ZF Servocom de doble circuito con bomba de emergencia. Dirección mecánica al 1° y 2° eje. En modo de funcionamiento "traslado por carretera", los ejes 3 a 6 se dirigen electrónicamente hasta una velocidad de 25 km/h. A partir de una velocidad de 25 km/h, los ejes 4 y 5 se bloquean en posición de línea recta y a partir de una velocidad de 50 km/h se bloquean además los ejes 3 y 6.

**Cabina del chasis:** Cabina de conductor frontal para dos personas construida en material compuesto de chapa de acero y plástico, acristalamiento de seguridad, bloqueo central, asientos neumáticos, asiento del conductor regulable en múltiples posiciones con función memoria y calefactable, calefacción por agua dependiente del motor, climatizador, dispositivo manos libres con Bluetooth, display multifunción, cámara de marcha atrás, radio/reproductor CD con toma USB, elementos de control y mando para el modo de conducción, regulador de velocidad, sistema automático de frenado.

**Sistema eléctrico:** 24 voltios de corriente continua, 2 baterías, cableado con componente de bus CAN con sistema CSS de autodiagnóstico integrado, iluminación de la zona de apoyo. El sistema eléctrico cumple la normativa ECE.

**Equipamiento adicional:** (con suplemento de precio)  
Enganche para remolque, calefacción adicional independiente del motor con precalefacción del motor, sistema antibloqueo ABS, neumáticos 525/80 R 25 (20.5 R 25), rueda de repuesto, pintura especial y rotulación. Otros equipamientos adicionales sobre pedido.

## Superestructura

**Bastidor:** Construida en aceros soldados, resistente a la torsión, corona de giro con rodamiento de tres filas de rodillos con dientes externos con giro continuo de 360°. Sistema de engrase central.

**Motor:** Mercedes-Benz de 6 cilindros diesel, modelo OM936LA (EU Stage IV / EPA Tier 4f), refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador. Cilindrada 7,7 l. Potencia: 205 kW (279 CV) a 1.900 min<sup>-1</sup>. Par: 1.150 Nm a 1.200 - 1.600 min<sup>-1</sup>. Potencia del motor según ECE R120. Depósito de combustible: 230 l. Depósito AdBlue: 19 l.

**Sistema hidráulico:** Sistema dieselhidráulico de 3 circuitos, 1 bomba doble de pistones axiales de caudal variable (regulable hidráulicamente) con regulación a caudal total para telescopiado, ajuste hacia arriba y abajo y cabrestante, 1 bomba de pistones axiales para mecanismo de giro y cilindro del contrapeso, 1 bomba de engranajes para abastecimiento de aceite de mando, radiador de aceite y 1 radiador de aceite adicional.

**Controles:** 2 palancas de control de tipo joy-stick para movimientos simultáneos de la grúa (4 direcciones), asistidas eléctricamente.

**Pluma telescópica:** Pluma telescópica de cinco secciones en acero de alta resistencia soldado; se compone de un tramo base y 4 tramos telescópicos, 1 cilindro telescópico; los tramos pueden telescoparse hidráulicamente bajo carga parcial. Longitud de 15,0 m a 60,0 m. Cabeza de pluma con 7 poleas, con ampliación opcional por otras 2 poleas.

**Mecanismo de basculado:** Mediante un cilindro diferencial con válvula de retención integrada.

**Cabrestante principal:** Motor de cilindrada variable de pistones axiales, tambor del cabrestante con reducción planetaria incorporada y freno de discos múltiples cargado por resorte con sistema libre de elevación. Indicador de giros del cabrestante, cable de elevación con sistema "Super-Stop". Sistema de cámaras para monitorear el cable.

**Sistema de giro:** Motor de cilindrada constante de pistones axiales, con reducción planetaria de tres etapas con freno de servicio y estacionamiento accionado por pedal o automáticamente. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio. Velocidad de giro variable continuamente de 0 a 1,1 min<sup>-1</sup>.

**Contrapeso:** Peso total: 136 t, divisible. Se acciona mediante un control remoto.

**Cabina de la grúa:** Cabina de grúa espaciosa en construcción de acero y plástico, con cristales tintados de seguridad, puesto de trabajo inclinable con asiento de conductor regulable, amortiguado mecánicamente y calefactable, calefacción por agua caliente dependiente del motor y calefacción adicional independiente del motor (con precalefacción del motor), climatizador, radio / reproductor de CD, elementos de control y mando.

**Sistema eléctrico:** 24 voltios de corriente continua, 2 baterías, 1 faro de trabajo en la pluma base, 2 faros integrados en la cabina de la grúa.

**Dispositivos de seguridad:** "Lift Adjuster", limitador electrónico del momento de carga (LMC) con luz de señalización tipo semáforo, anemómetro, limitación de la zona de giro y del área de trabajo con función "Slow-Stop", interruptor de fin de carrera de elevación, interruptor de fin de carrera del cabrestante, válvulas de seguridad contra roturas de tubos y latiguillos.

**Equipamiento adicional:** (con suplemento de precio)  
Alargamiento de pluma de ángulo fijo de 6 m a 24 m. Alargamientos de pluma regulables 2,0 m + 3,5 m y 2,0 m + 3,5 m a 2,0 m + 47,5 m, regulable mecánicamente de 0°/20°/40°, regulable hidráulicamente de 0° a 40°. Alargamientos de pluma ajustables hidráulicamente 2,5 m + 20,3 m a 2,5 m + 76 m y 2,5 m + 46 m a 2,5 m + 64 m (ligero), posiciones angulares de la pluma principal: 83°/75°/68°. Alargamiento de pluma telescópica y regulable hidráulicamente HTLJ 2,3 m + 10,3 m a 2,3 m + 31 m, hidráulicamente regulable de 5° a 60°. Arriostramiento de la pluma telescópica del tipo "Power System". Accesorios de gancho de 12,5 t, pastecas de carga del tipo 40 a 250, 2° cabrestante. Pintura especial y rotulación. Otros equipamientos adicionales sobre pedido.

## Equipaggiamento

### Carro

**Telaio:** Struttura saldata resistente a sollecitazioni a torsione e flessione in acciaio a grano fine ad alta resistenza. Impianto di lubrificazione centrale.

**Stabilizzazione:** Stabilizzazione telescopica doppia su 4 punti, di tipo idraulico, incl. base di appoggio asimmetrica, rilevamento automatico lunghezza, possibilità di comando dai due lati del telaio e dalla cabina della sovrastruttura. Base di appoggio 8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Motore:** Motore diesel Mercedes-Benz 6 cilindri OM473LA (EU Stage IV / EPA Tier 4f), raffreddato ad acqua, ventilatore ad azionamento idrostatico con regolazione elettronica, cilindrata 15,6 l, potenza 460 kW (625 PS) a 1700 min<sup>-1</sup>. Coppia 2900 Nm a 1300 min<sup>-1</sup>. Potenza motore conforme a ECE R120. Serbatoio carburante: 660 l. Serbatoio AdBlue: 40 l.

**Cambio:** Trasmissione principale cambio meccanico ZF-TC-Tronic 12 TC 3041 con Intarder integrato, frizione a secco ad azionamento elettro-pneumatico e innesto marce automatico, con 12 marce avanti e 2 retromarce. Opzionale: funzionamento parzialmente automatico (Tiptronic) con selezione marce manuale.

**Trasmissione:** 12 x 8

#### Assi:

- 1° asse: snodato, asse motore, bloccaggio differenziale trasversale.
- 2° asse: snodato, non asse motore.
- 3° asse: snodato, asse motore, bloccaggio differenziale longitudinale e trasversale.
- 4° asse: snodato, con trazione inseribile, bloccaggio differenziale trasversale.
- 5° asse: snodato, asse motore, bloccaggio differenziale trasversale.
- 6° asse: snodato, non asse motore.

**Sospensione assiale:** Sospensione idro-pneumatica con regolazione di livello, cilindro sospensione con bloccaggio elettroidraulico.

**Freni:** Impianto frenante con freni a disco a doppio circuito ad aria compressa con essiccatore di aria. Freno di stazionamento con funzione di freno a molla a rilascio pneumatico sul 3°, 4°, 5° e 6° asse. Intarder e freno motore come freno continuo.

**Ruote:** 12x 445/95 R 25 (16.00 R 25).

**Sterzo:** Sistema idroguida a doppio circuito ZF Servocom con pompa sterzo di emergenza. Sterzata meccanica del 1° e 2° asse. In modalità di funzionamento "su strada" gli assi 3-6 vengono guidati elettronicamente fino a una velocità di 25 km/h. Gli assi 4 e 5 vengono bloccati dritti a partire da una velocità di 25 km/h mentre gli assi 3 e 6 da 50 km/h.

**Cabina del carro:** Cabina conducente frontale per due in struttura composita acciaio-plastica, vetratura di sicurezza, chiusura centralizzata, sedili molleggiati, sedile conducente impostabile in vari modi con funzione memory e riscaldamento, riscaldamento acqua dipendente dal motore, climatizzatore, vivavoce Bluetooth, display multifunzione, telecamera retromarcia, radio/lettore CD con collegamento USB, elementi di controllo e comando per la marcia e funzioni Tempomat e Bremsomat.

**Impianto elettrico:** Corrente continua 24 Volt, 2 batterie, cablaggio con componente sistema CAN Bus con sistema CSS integrato per autodiagnosi, illuminazione zona di stabilizzazione. L'impianto elettrico è conforme alle norme ECE.

**Equipaggiamento aggiuntivo:** (a sovrapprezzo) Gancio di traino, riscaldamento supplementare indipendente dal motore con preriscaldamento motore, ABS, pneumatici 525/80 R 25 (20.5 R 25), ruota di scorta, verniciatura speciale e diciture. Altro equipaggiamento aggiuntivo su richiesta.

### Sovrastruttura

**Telaio:** Struttura saldata resistente alla torsione con corona di rotazione a rulli a tre file, dentata esternamente, ruotabile di 360° senza limitazioni. Impianto di lubrificazione centrale.

**Motore:** Motore Diesel a 6 cilindri Mercedes-Benz OM936LA, (EU Stage IV / EPA Tier 4f), raffreddato ad acqua. Regolazione continua numero di giri da pedale. Cilindrata 7,7 l. Potenza 205 kW (279 PS) a 1900 min<sup>-1</sup>. Coppia 1150 Nm a 1200-1600 min<sup>-1</sup>, potenza motore conforme a ECE R120. Serbatoio carburante: 230 l. Serbatoio AdBlue: 19 l.

**Impianto idraulico:** Diesel-idraulico con idraulica a 3 circuiti, 1 pompa a pistoni assiali doppia con regolazione di potenza (con regolazione idraulica) con circuito a somma di portate per funzione telescopica, bilancieri e meccanismo di sollevamento e 1 pompa a pistoni assiali per gruppo di rotazione e per cilindro di contrappeso, 1 pompa a ingranaggi per olio comando, 1 radiatore olio e 1 radiatore olio supplementare.

**Comando:** Due leve di comando gru x4 con precomando elettrico.

**Braccio telescopico:** Braccio telescopico in cinque sezioni in acciaio a grano fine ad alta resistenza, composto da un braccio base e 4 sezioni telescopiche, 1 cilindro telescopico, funzione telescopica ad azionamento idraulico sotto carico parziale. Lunghezza 15,0 m - 60,0 m. Testa rullo con 7 pulegge espandibile con altre 2 pulegge.

**Gruppo di brandeggio:** Un cilindro differenziale con valvola di frenata caduta verticale montata.

**Meccanismo di sollevamento:** Servomotore a pistone assiale, tamburo del meccanismo di sollevamento con rotismo epicicloidale incorporato e freno a disco idraulico sollecitato a molla con ruota libera integrata nel sollevamento. Indicatore delle rotazioni dei verricelli, fune di sollevamento con dispositivo 'Super-Stop'. Sistema videocamera per controllo funi.

**Gruppo di rotazione:** Motore costante a pistoni assiali, ingranaggio epicicloidale a tre stadi con freno di servizio e di stazionamento azionabile a pedale o automatico. Circuito idraulico aperto con attivazione gruppo di rotazione. Velocità di rotazione regolabile in continuo da 0 a 1,1 min<sup>-1</sup>.

**Contrappeso:** Peso complessivo 136 t, divisibile. Il funzionamento avviene tramite unità di comando a distanza.

**Cabina della sovrastruttura:** Spaziosa cabina della gru in acciaio-plastica con vetratura di sicurezza e cristalli oscurati, postazione di lavoro ribaltabile con sedile conducente regolabile, con molleggio meccanico regolabile e riscaldamento, riscaldamento ad acqua dipendente dal motore e riscaldamento supplementare indipendente dal motore (con preriscaldamento motore), climatizzatore, radio/lettore CD, elementi di controllo e comando per esercizio gru.

**Impianto elettrico:** Corrente continua 24 Volt, 2 batterie, 1 proiettore di lavoro sul braccio base, 2 integrati nella cabina della gru.

**Dispositivi di sicurezza:** "Lift Adjuster", limitatore del momento di carico (LMC) elettronico con luce di riferimento a semaforo, anemometro, delimitazione dell'area di rotazione e delimitazione dell'area di lavoro con funzione "Slow-Stop", interruttore di fine corsa, fine corsa argani, valvole di sicurezza contro rottura tubi e tubi flessibili.

**Equipaggiamento aggiuntivo:** (a sovrapprezzo) Prolunga del braccio rigida da 6 m a 24 m. Prolunga del braccio con regolazione angolo 2,0 m + 3,5 m e da 2,0 m + 11,5 m a 2,0 m + 47,5 m, con regolazione angolo meccanica di 0°/20°/40°, regolazione angolo idraulica da 0° a 40°. Prolunghe del braccio basculanti 2,5 m + 20,3 m fino a 2,5 m + 76 m e 2,5 m + 46 m fino a 2,5 m + 64 m (leggera), regolazioni angolo braccio principale 83°/75°/68°. Prolunga del braccio con funzione telescopica e regolazione angolo idraulico HTLJ 2,3 m + 10,3 m fino a 2,3 m + 31 m, regolazione angolo idraulica da 5° a 60°. Ancoraggio braccio telescopico "Power System". Gancio da 12,5 t, bozzelli di tipo da 40 a 250, secondo organo di sollevamento. Verniciatura speciale e diciture. Altro equipaggiamento aggiuntivo su richiesta.

## Ходовая платформа

**Рама:** Жёсткая на скручивание и изгиб сварная конструкция из высокопрочной мелкозернистой стали. Централизованная смазочная система.

**Аутригеры:** Четыре гидравлические опоры в четырех точках, включая поддержку асимметричной базы аутригеров и автоматическое распознавание положения стрелы, возможность управления с обеих сторон ходовой части и из кабины на поворотной платформе.

Опорная база 8,5 м (8,0 м / 6,8 м / 5,5 м / 2,7 м) x 8,9 м.

**Двигатель:** 6-цилиндровый дизельный двигатель Mercedes-Benz OM473LA, (EU Stage IV / EPA Tier 4f), с водяным охлаждением, вентилятор с гидростатическим приводом и электронным регулированием. Рабочий объем двигателя 15,6 л, мощность 460 кВт (625 л.с.) при 1 700 об/мин. Крутящий момент 2 900 Н·м при 1 300 об/мин. Мощность двигателя согласно ECE R120. Топливный бак: 660 л. Бак для присадки AdBlue: 40 л.

**Коробка передач:** Главный редуктор ZF-TC-Tronic 12 TC 3041 со встроенным интардером, электронно-пневматическим управлением сухим дисковым сцеплением и полностью автоматическим переключением 12 передач переднего и 2 передач заднего хода. При необходимости возможен полуавтоматический режим (Tip-Tronic) с переключением передач вручную.

**Привод:** 12 x 8

**Оси:**

1-я ось: управляемая, приводная, с поперечной блокировкой межколёсного дифференциала.

2-я ось: управляемая, неприводная.

3-я ось: управляемая, приводная, с продольной и поперечной блокировкой межколёсного дифференциала.

4-я ось: управляемая, с подключаемым приводом, поперечная блокировка межколёсного дифференциала.

5-я ось: управляемая, приводная, с поперечной блокировкой межколёсного дифференциала.

6-я ось: управляемая, неприводная.

**Подвеска оси:** Гидропневматическая подвеска с регулировкой уровня, функция электрогидравлической блокировки цилиндра подвески.

**Тормоза:** Пневматическая двухмагистральная дисковая тормозная система с электронным индикатором износа и осушителем воздуха. Стояночный тормоз, представляющий собой тормозной механизм с пружинным энергоаккумулятором, воздействует на 3-ю, 4-ю, 5-ю и 6-ю оси. Интардер и моторный тормоз.

**Колеса:** 12-ные 445/95 R 25 (16.00 R 25).

**Рулевое управление:** Двухконтурное гидравлическое рулевое управление ZF-Servocom с резервным насосом рулевого управления. Механическое рулевое управление 1-й и 2-й осями. В рабочем режиме «Дорога» производится электронное подруливание осями 3 – 6 при скорости до 25 км/ч. Начиная со скорости 25 км/ч оси 4 и 5 блокируются в прямом положении, а начиная со скорости 50 км/ч блокируются дополнительно оси 3 и 6.

**Кабина ходовой платформы:** Двухместная передняя кабина водителя композитной конструкции (металлический лист и стекловолокно), безосколочное стекло, центральный замок, сиденья с пневматической подвеской, сиденье водителя регулируемое по многим параметрам, с функцией памяти и подогревом), водяной отопитель, зависящий от работы двигателя, кондиционер, спикерфон с функцией Bluetooth, многофункциональный дисплей, камера заднего вида, радиоприемник / CD-плеер с портом USB, элементы управления и индикации для ходового режима, функция темпомата / автоматического торможения.

**Система электрооборудования:** 24 вольт пост. тока, 2 аккумуляторные батареи проводка к компонентам шины CAN со встроенной системой CSS для самодиагностики, подсветка аутригеров. Электрооборудование отвечает стандарту ECE.

**Дополнительное оборудование:** (за надбавку к цене) Тягово-сцепное устройство, автономный отопитель с функцией подогрева двигателя, ABS, шины 525/80 R 25 (20.5 R 25), запасное колесо, специальное лаковое покрытие и нанесение надписей. Другое дополнительное оборудование – по запросу.

## Оборудование

### Поворотная платформа

**Рама:** Жёсткая на скручивание сварная конструкция с трехрядным роликовым поворотным соединением с внешними зубьями, с неограниченным поворотом на 360°. Централизованная смазочная система.

**Двигатель:** 6-цилиндровый дизельный двигатель Mercedes-Benz OM936LA, (EU Stage IV / EPA Tier 4f), с водяным охлаждением. Бесступенчатая регулировка оборотов посредством педали. Рабочий объем двигателя 7,7 л. Мощность 205 кВт (279 л.с.) при 1 900 об/мин. Крутящий момент 1 150 Н·м при 1 200 – 1 600 об/мин., мощность двигателя согласно ECE R120. Топливный бак 230 л. Бак для присадки AdBlue: 19 л.

**Гидравлическая система:** Дизельно-гидравлическая с 3-контурным гидроагрегатом, 1 управляемый по мощности аксиально-поршневой насос двойного действия (с гидравлической регулировкой) и суммарным подключением механизма телескопирования, изменения вылета и подъемного механизма, а также 1 аксиально-поршневой насос одинарного действия для поворотного механизма и цилиндра противовеса, один шестеренчатый насос контрольного давления, 1 масляный радиатор и 1 дополнительный масляный радиатор.

**Система управления:** Два джойстика с предварительным электрическим регулированием.

**Телескопическая стрела:** Пятисекционная телескопическая стрела из высокопрочной мелкозернистой стали, включает основную секцию стрелы и 4 телескопических секций, 1 телескопический цилиндр, выдвигается гидравлическим способом под частичной нагрузкой. Длина 15,0 м – 60,0 м. Оголовок стрелы с 7-ю канатными шкивами, как вариант, возможно расширение еще на 2 канатных шкива.

**Механизм изменения подъема стрелы:** Дифференциальный цилиндр со смонтированным на нем запирающим клапаном.

**Подъемный механизм:** Аксиально-поршневой двигатель с переменным рабочим объемом, барабан подъемного механизма с встроенным планетарным редуктором и пружинным гидравлическим многодисковым тормозом с встроенным механизмом свободного хода при подъеме. Сигнализатор вращения барабана лебедки, подъемный трос с тормозным приспособлением 'Super-Stop'. Система камер для наблюдения за тросом.

**Поворотный механизм:** Аксиально-поршневой двигатель с постоянным рабочим объемом, трехступенчатый планетарный редуктор с рабочим и стояночным тормозом. Открытый гидравлический контур со схемой отпирания поворотного механизма. Бесступенчатое изменение скорости вращения, 0–1,1 об/мин.

**Противовес:** Общий вес 136 т, составной. Управление производится посредством пульта дистанционного управления.

**Кабина на поворотной платформе:** Просторная кабина крана композитной конструкции (металл и пластик), остекление тонированным безосколочным стеклом, откидывающееся рабочее место с регулируемым по высоте сиденьем водителя с механическим амортизатором и подогревом, водяной отопитель, зависящий от работы двигателя, автономный отопитель с функцией подогрева двигателя, кондиционер, радио / CD-плеер, элементы управления и индикации.

**Система электрооборудования:** 24 вольт пост. тока, 2 аккумуляторные батареи, 1 рабочий прожектор на основной секции стрелы, 2 встроены в кабине крана.

**Устройства безопасности:** Регулятор подъема "Lift Adjuster", электронный ограничитель момента нагрузки (LMB) с подачей опознавательных световых сигналов, анемометр, ограничитель зоны поворота и рабочей зоны с функцией медленной остановки "Slow-Stop", концевой выключатель лебедки, клапаны безопасности на случай повреждения гидравлических трубок и шлангов.

**Дополнительное оборудование:** (за надбавку к цене) Неподвижный удлинитель стрелы от 6 м до 24 м. Удлинитель стрелы с возможностью изменения угла 2,0 м + 3,5 м и 2,0 м + 11,5 м до 2,0 м + 47,5 м, механическое изменение угла наклона 0°/20°/40°, гидравлическое изменение угла наклона 0° – 40°. маневровый гусек 2,5 м + 20,3 м до 2,5 м + 76 м и 2,5 м + 46 м до 2,5 м + 64 м (легкий), офсет 83°/75°/68°. Удлинение стрелы с телескопированием и изменением угла HTLJ 2,3 м + 10,3 м до 2,3 м + 31 м, гидравлическое изменение угла наклона от 5° до 60°. Оттяжка телескопической стрелы "Power System". крюковая подвеска 12,5 т, крюковые обоймы от типа 40 до 250, 2-я подъемная лебедка. Специальное лаковое покрытие и нанесение надписей. Другое дополнительное оборудование – по запросу.

# ADDITIONAL INFORMATION

ZUSATZINFORMATIONEN  
INFORMATIONS SUPPLÉMENTAIRES  
INFORMACIÓN ADICIONAL  
ALTRE INFORMAZIONI  
ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ





## Additional information · Zusatzinformationen · Informations supplémentaires

### Remarks relating to the capacity charts · Anmerkungen zu den Traglasttabellen Remarques relatives aux tableaux des charges

1. The lifting capacities in the structural area are based on EN 13000.
2. The lifting capacities in the stability area are based on ISO 4305 / EN 13000.
3. Depending on the boom length, max. wind speeds between 7 m/s and 15 m/s are permissible in the lifting capacity charts.
4. Due to different extending sequences of the telescopes, the boom lengths indicated in the lifting capacity charts may deviate slightly.
5. The lifting capacities are shown in metric tons.
6. The weight of load handling devices such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
7. The lifting capacities for the telescopic boom apply to a crane with no jib being stowed or mounted on the crane.
8. The load radius is the horizontal distance from the centre of the slewing ring to the centre of gravity of a suspended, non-oscillating load.

1. Die Tragfähigkeiten im Festigkeitsbereich basieren auf EN 13000.
2. Die Tragfähigkeiten im Standsicherheitsbereich entsprechen ISO 4305 / EN 13000.
3. In Abhängigkeit der Auslegerlänge sind bei den Traglasttabellen max. Windgeschwindigkeiten zwischen 7 m/s und 15 m/s zulässig.
4. Aufgrund unterschiedlicher Ausfahrfolgen der Teleskope können die in den Traglasttabellen angegebenen Auslegerlängen geringfügig abweichend sein.
5. Die Tragfähigkeiten sind in metrischen Tonnen angegeben.
6. Das Gewicht des Lasthakens bzw. der Unterflasche und weiterer Anschlagmittel ist von der Tragfähigkeit abzuziehen.
7. Die Tragfähigkeiten für den Teleskopausleger gelten nur bei demontierter Auslegerverlängerung.
8. Die Ausladung ist der horizontale Abstand von Mitte Drehkranz bis zum Schwerpunkt freihängender, nicht schwingender Last.

1. Les forces de levage sont conformes aux normes EN 13000.
2. Les forces de levage dans la partie de stabilité au renversement sont conformes aux normes ISO 4305 / EN 13000.
3. Des vitesses de vent max. entre 7 et 15 m/s sont autorisées pour les tableaux des charges en fonction de la longueur de la flèche.
4. Les longueurs de flèche indiquées dans les tableaux des charges peuvent être légèrement divergentes en raison des différentes séries de déploiement des télescopes.
5. Les forces de levage sont données en tonnes métriques.
6. Le poids du crochet-moufle et de tous les accessoires d'élingage font partie de la charge et sont à déduire des charges indiquées.
7. Les forces de levage indiquées pour la flèche télescopique s'entendent rallonge de flèche déposée.
8. La portée est la distance horizontale du milieu de la couronne d'orientation au centre de gravité de la charge suspendue librement sans osciller.

### General remarks · Allgemeine Anmerkungen · Remarques générales

Unless otherwise specified, all the information given in this brochure refers to the standard equipment of the crane and only is intended as general information. For correct crane operation, the original operating manual and lifting capacity charts are essential. No liability is accepted for the accuracy of this information. Errors and omissions excepted. Illustrations are similar only. All dimensions - unless otherwise specified - in mm.

Alle Angaben in dieser Broschüre beziehen sich - wenn nicht anderweitig aufgeführt - auf die Standard-Ausstattung des Krans und dienen nur zur allgemeinen Information. Zum ordnungsgemäßen Betrieb des Krans sind die original Bedienungsanleitung und Traglasttabellen maßgeblich. Alle Angaben erfolgen ohne Gewähr. Änderungen und Irrtümer vorbehalten. Abbildungen ähnlich. Alle Bemaßungen - wenn nicht anders angegeben - in mm.

Sauf indication contraire, toutes les informations dans cette brochure se rapportent à l'équipement standard de la grue et constituent uniquement des informations générales. Pour le fonctionnement correct de la grue, le manuel d'instructions original et les tableaux des charges de levage sont déterminants. Toutes les informations sont fournies sans garantie. Sous réserve de modifications techniques et d'erreurs. Illustrations similaires mais pas identiques à l'engin montré. Toutes les cotes - sauf indication différente - en mm.

Notas relativas a los graficos de carga · Annotazioni sulle tabelle delle portate  
Примечания к таблицам грузоподъемности

1. En cuanto a los datos referentes a resistencia, las capacidades de carga están basados sobre las normas EN 13000.
2. En cuanto a los datos referentes a estabilidad anti-vuelco, las capacidades de carga están basados sobre las normas ISO 4305 / EN 13000.
3. En función de la longitud de la pluma, son admisibles velocidades máx. del viento entre 7 m/s y 15 m/s en las tablas de cargas.
4. Debido a las diferentes secuencias de extensión de los telescopios, es posible que las longitudes de la pluma indicadas en las tablas de cargas sean ligeramente distintas.
5. Las capacidades de carga indicadas en las tablas corresponden a toneladas métricas.
6. Hay que deducir los pesos del gancho, eslingas y de otros dispositivos para fijación de cargas de los valores indicados en las tablas.
7. Las capacidades de carga referentes a la pluma telescópica valen solamente si el alargamiento de pluma está desmontado.
8. El alcance de pluma es la distancia horizontal del centro de la corona de giro al centro de gravedad de una carga suspendida que no está oscilando.

1. Le capacità di carico nel range di resistenza sono riferite alla norma EN 13000.
2. Le capacità di carico nel range di stabilità sono conformi alle norme ISO 4305 / EN 13000.
3. Nelle tabelle delle portate sono ammesse velocità del vento comprese tra 7 m/s e 15 m/s in funzione della lunghezza del braccio.
4. Considerata le diverse sequenze di sfilo dei telescopi, le lunghezze del braccio indicate nelle tabelle delle portate possono essere lievemente differenti.
5. Le capacità di carico sono indicate in tonnellate metriche.
6. Il peso del gancio di carico, ovvero del bozzello e delle altre imbracature deve essere detratto dalla capacità di carico.
7. Le capacità di carico per il braccio telescopico sono applicabili soltanto con prolunga del braccio smontata.
8. Per sbraccio si intende la distanza orizzontale dal centro della corona rotante al centro del carico sospeso, ma non oscillante.

1. Значения грузоподъемности в пределах категории прочности основаны на положениях стандарта EN 13000.
2. Значения грузоподъемности в пределах области устойчивости соответствуют стандарту ISO 4305 / EN 13000.
3. В зависимости от длины стрелы таблицы грузоподъемности допускают скорость ветра от 7 до 15 м/с.
4. Длина телескопической стрелы в выдвинутом состоянии может незначительно отличаться от указанной в таблицах грузоподъемности из-за различных последовательностей выдвигания.
5. Грузоподъемность указана в метрических тоннах.
6. Из грузоподъемности необходимо вычесть вес грузового крюка или крюковой обоймы, а также других грузозахватных приспособлений.
7. Значения грузоподъемности для телескопической стрелы действительны только при демонтированном удлинителе стрелы (гуське).
8. Вылет — это расстояние по горизонтали между центром поворотного круга и центром тяжести свободно подвешенного некачающегося груза.




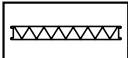


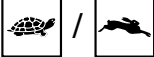






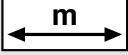






Notas adicionales · Annotazioni generali · Общие примечания

*A no ser que se indique lo contrario, todos los datos incluidos en este folleto hacen referencia al equipamiento estándar de la grúa y sólo tienen un carácter informativo general. El manual de instrucciones original y las tablas de capacidades de carga son determinantes para lograr un correcto funcionamiento de la grúa. Todos los datos se facilitan sin garantía. Reservadas las modificaciones y los errores. Ilustraciones similares. Todas las dimensiones - salvo indicación en contrario - en mm.*

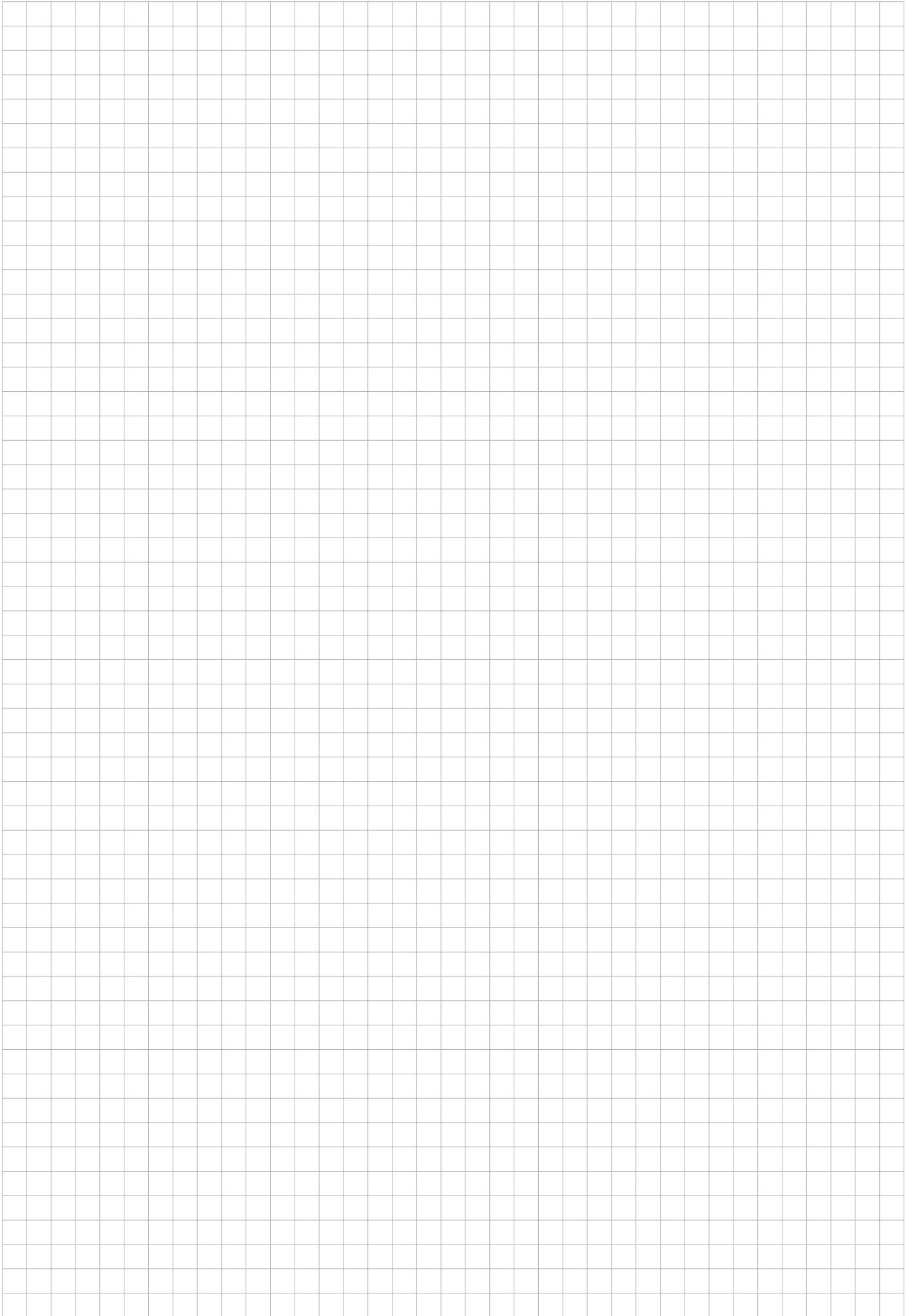
*Se non diversamente specificato, tutti i dati di questa brochure si riferiscono alla dotazione standard della gru e sono da considerarsi come informazioni generali. Per un esercizio corretto della gru, sono determinanti il manuale d'uso originale e le tabelle delle portate. Si declina ogni responsabilità per tutti i dati. Con riserva di modifiche ed errori. Figure simili. Tutte le quotature sono in mm (se non diversamente specificato).*

*Все данные, приведенные в этой брошюре, относятся – если не указано иное – к стандартному оснащению крана и служат лишь для общей информации. Порядок надлежащей эксплуатации крана определяется оригиналом руководства по эксплуатации и таблицами грузоподъемности. Все данные приведены без обязательств. Возможны изменения и ошибки. Иллюстрации являются приблизительными. Все размеры – если не указано другое – в мм.*

Symbols · Symbolerklärung · Glossaire des symboles  
 Glosario de símbolos · Spiegazione dei simboli · Условные обозначения

	Gross weight · Gesamtgewicht Poids total · Peso total Peso totale · Полная масса		Luffing jib · Wippspitze Fléchette à volée variable · Plumín abatible Punta oscilante · маневровый гусек
	Axle load · Achslast Charge à l'essieu · Carga por eje Carico assiale · Осьевая нагрузка		Fly jib section · Spitzenteil Élément de fléchette · Plumín Parte punta · Головная секция
	Drive · Antrieb Entraînement · Tracción Trazione · Привод		Hydraulic telescopic and luffing jib HTLJ · Hydraulische Teleskop- und Wippspitze HTLJ · Fléchette télescopique relevable hydrauliquement HTLJ · Plumín hidráulicamente telescópable y regulable HTLJ Punta oscilante e telescópica idraulica HTLJ · Телескопическая секция и оголовок с гидравлическим приводом HTLJ
	Tyres · Bereifung Pneus · Neumáticos Pneumatici · Шины		Power-System
	Gradeability · Steigfähigkeit · Capacité de gravissement de pente · Superación de pendientes · Capacità di salita Способность преодолевать подъем		Swing area · Drehbereich Rayon de rotation · Zona de giro Area di rotazione · Область поворота
	Off road / On road · Gelände / Straße Tout-terrain / Mode "Route" · Todo terreno / En carretera Fuori strada / Su strada · Бездорожье / Дорога		Hydraulically lockable · Hydraulisch verriegelbar Verrouillable hydrauliquement · Con embulonamiento hidráulico · Con dispositivo di bloccaggio idraulico Гидравлическая блокировка
	Speed · Geschwindigkeit Vitesse · Velocidad Velocità · Скорость		Main winch · Hubwinde · Mécanisme de levage Cabrestante principal · Meccanismo di sollevamento Главная лебедка
	Outriggers · Abstützung Calage · Estabilizadores Stabilizzazione · На аутригерах		Auxiliary winch · Zusatzhubwinde Treuil supplémentaire · Cabrestante auxiliar Argano aggiuntivo · Дополнительная лебедка
	Counterweight · Gegengewicht Contrepoids · Contrapeso Contrappeso · Противовес		Type · Typ Tipo · Тип
	Counterweight element · Gegengewichtselement Élément de contrepoids · Parte del contrapeso Parte contrappeso · Деталь противовеса		Lifting capacity · Traglast Charge de levage · Carga Portata · Грузоподъемность
	Length · Länge Longueur · Longitud Lunghezza · Длина		Rope sheaves · Seilrollen Poulies de câbles · Poleas de cable Pulegge · Канатные шкивы
	Boom elevation · Wipwerk · Mécanisme de relevage Elevación de pluma · Gruppo di brandeggio Механизм изменения подъема стрелы		Parts of line · Seilstränge Brins de câble · Ramales de cable Spire della fune · Запасовка
	Boom telescoping · Teleskopieren Télescopage de flèche · Telescopaje de pluma Telescopaggio · Телескопирование		Dead-weight · Eigengewicht Poids total · Tara Peso proprio · Собственный вес
	Telescopic boom · Teleskopausleger Flèche télescopique · Pluma telescópica Braccio telescopico · Телескопическая стрела		Wire rope length · Hubseillänge Longueur du câble de levage · Longitud del cable de izaje · Lunghezza fune di sollevamento Длина подъемного троса
	Radius · Ausladung Portée · Radio Sbraccio · Вылет		Wire rope diameter · Hubseildurchmesser Diamètre du câble de levage · Diámetro del cable de elevación · Diametro fune di sollevamento Диаметр подъемного троса
	Fixed Jib · Starre Spitze Fléchette rigide · Plumín fijo Punta rigida · Неподвижный оголовок		Wire rope pulling force · Hubseilzugkraft Force de traction du câble de levage · Fuerza de tracción del cable de elevación · Forza di trazione fune di sollevamento · Тяговое усилие подъемного троса
	Tiltable jib · abwinkelbare Spitze Fléchette inclinable · Plumín regulable Punta con regolazione angolo Гусек с изменением угла наклона		Weight · Gewicht Poids · Peso Peso · Вес
	Hydraulically tiltable jib · hydraulisch abwinkelbare Spitze Fléchette inclinable hydrauliquement · Plumín regulable hidráulicamente · Punta con regolazione angolo idraulica Гусек гидравлический с изменением угла наклона		Page reference · Seitenverweis Renvoi à une page · Referencia de página Riferimento pagina · Ссылка на страницу







You can find your **direct TADANO contact person** on:  
[www.tadano.com/wwnetwork/](http://www.tadano.com/wwnetwork/)



**TADANO FAUN GmbH**

Faunberg 2 · 91207 Lauf a. d. Pegnitz · Germany  
Phone: +49-9123-185-0 · Fax: +49-9123-3085  
[www.tadanofaun.de](http://www.tadanofaun.de) · [info@tadanofaun.de](mailto:info@tadanofaun.de)

**TADANO LTD.** (International Division)

4-12, Kamezawa 2-chome, Sumida-ku Tokyo 130-0014, Japan  
Phone: 81-3-3621-7750 · Fax: 81-3-3621-7785  
[www.tadano.com](http://www.tadano.com) · [info@tadano.com](mailto:info@tadano.com)