

AC 5.220-1

220 TONNE MAX. CRANE CAPACITY

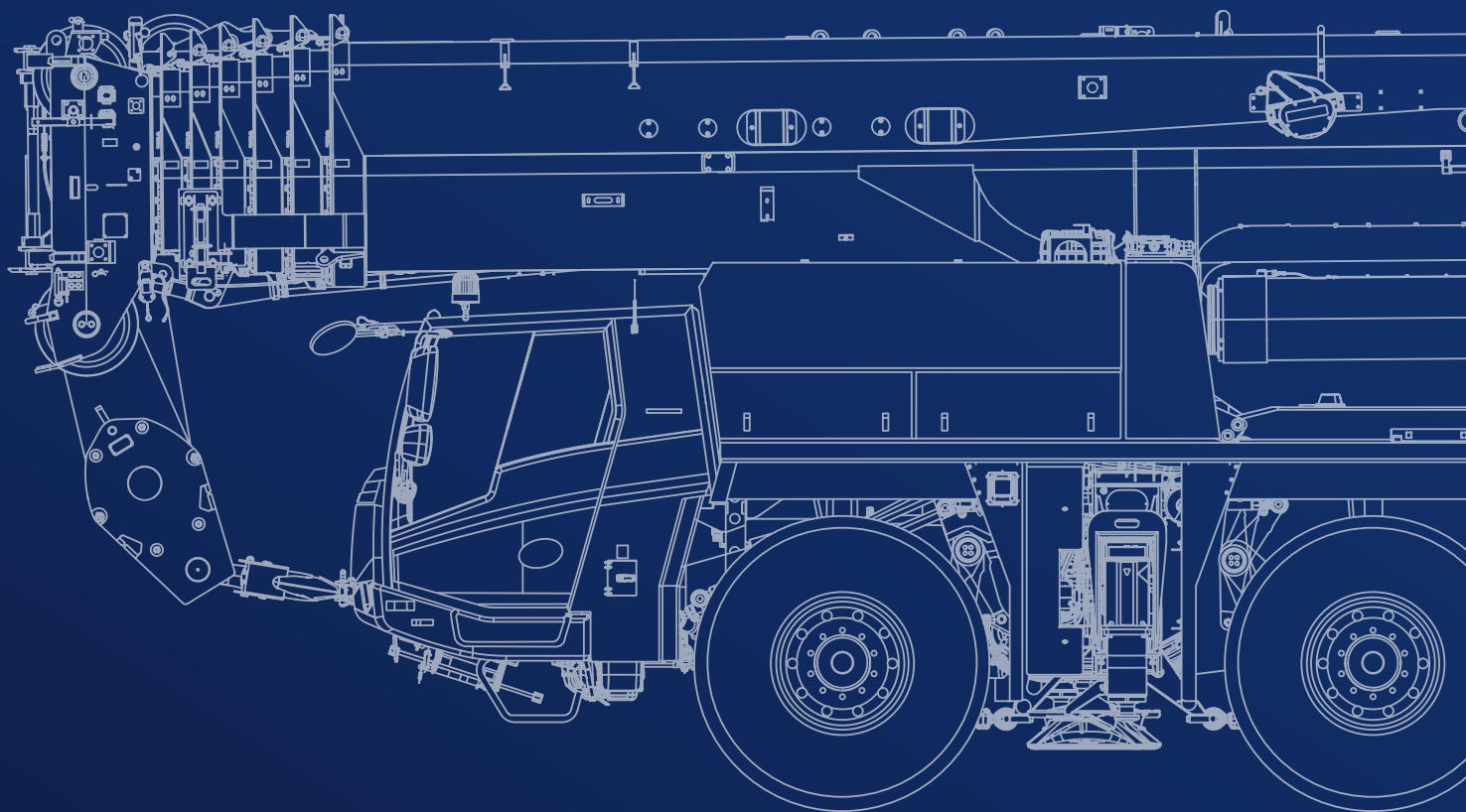


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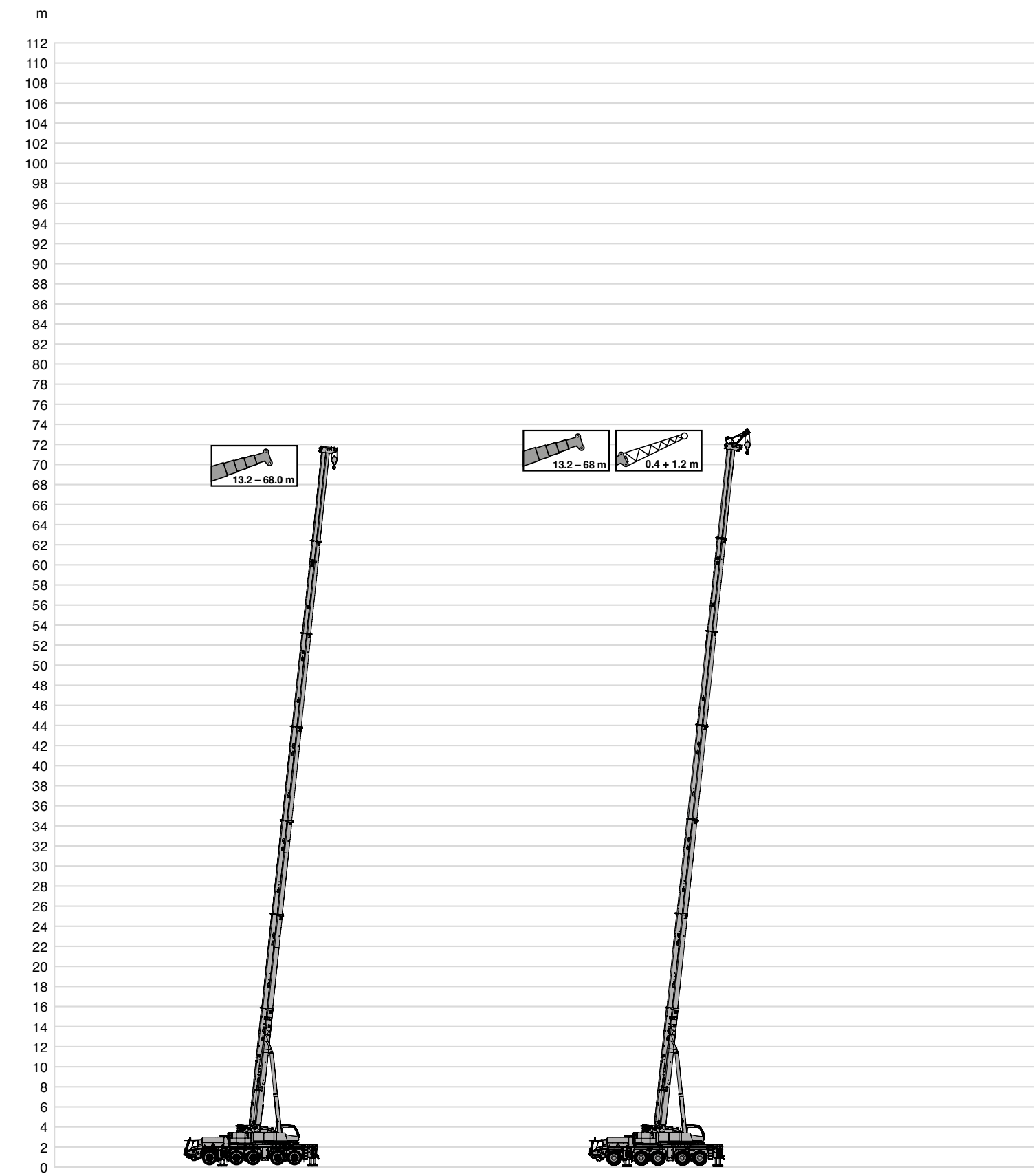
GENERAL TECHNICAL DATA

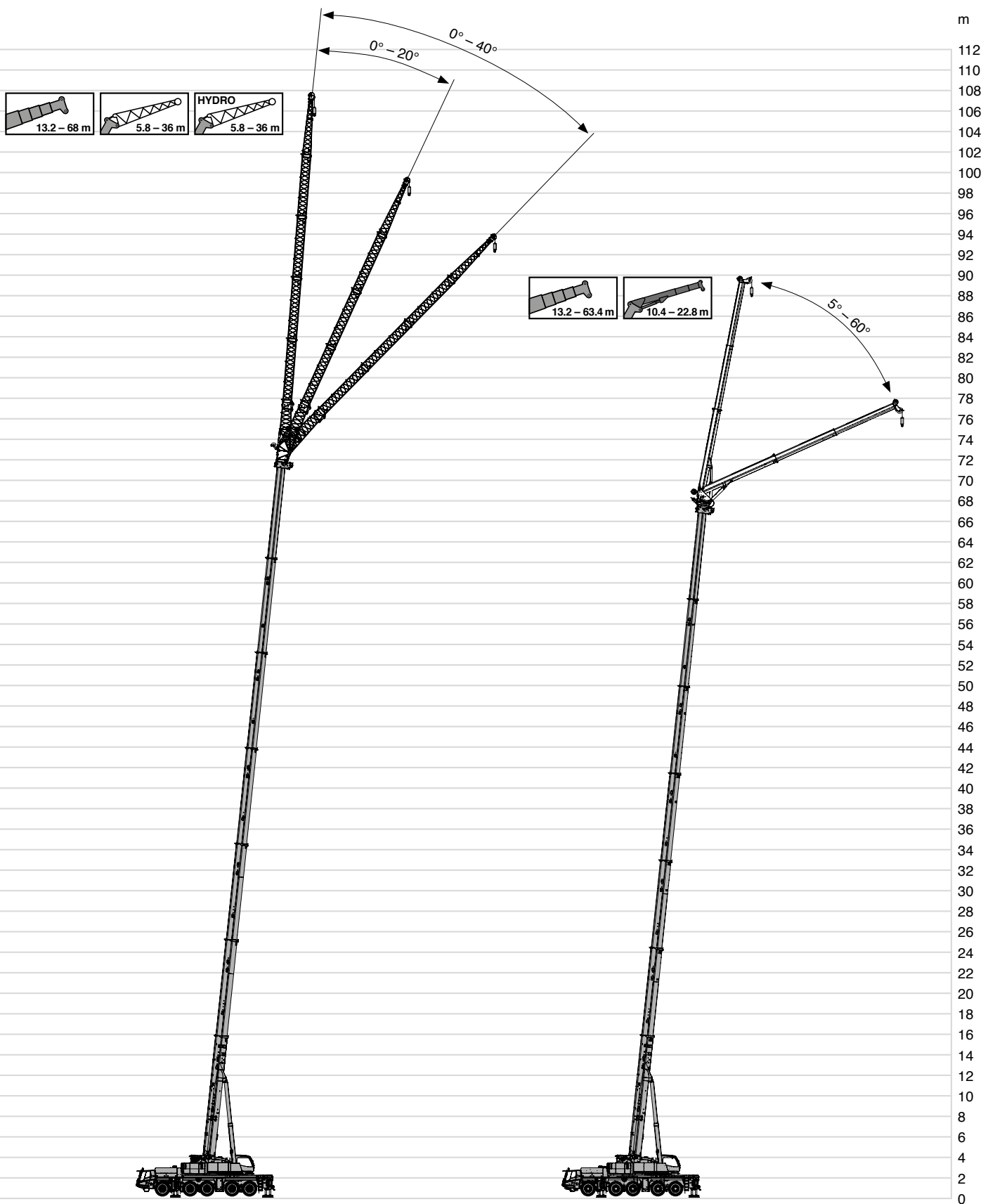
ALLGEMEINE TECHNISCHE DATEN
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DATOS TÉCNICOS GENERALES
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ОБЩИЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ



General · Allgemein · Généralités
Generalidades · Generalità · Общие положения

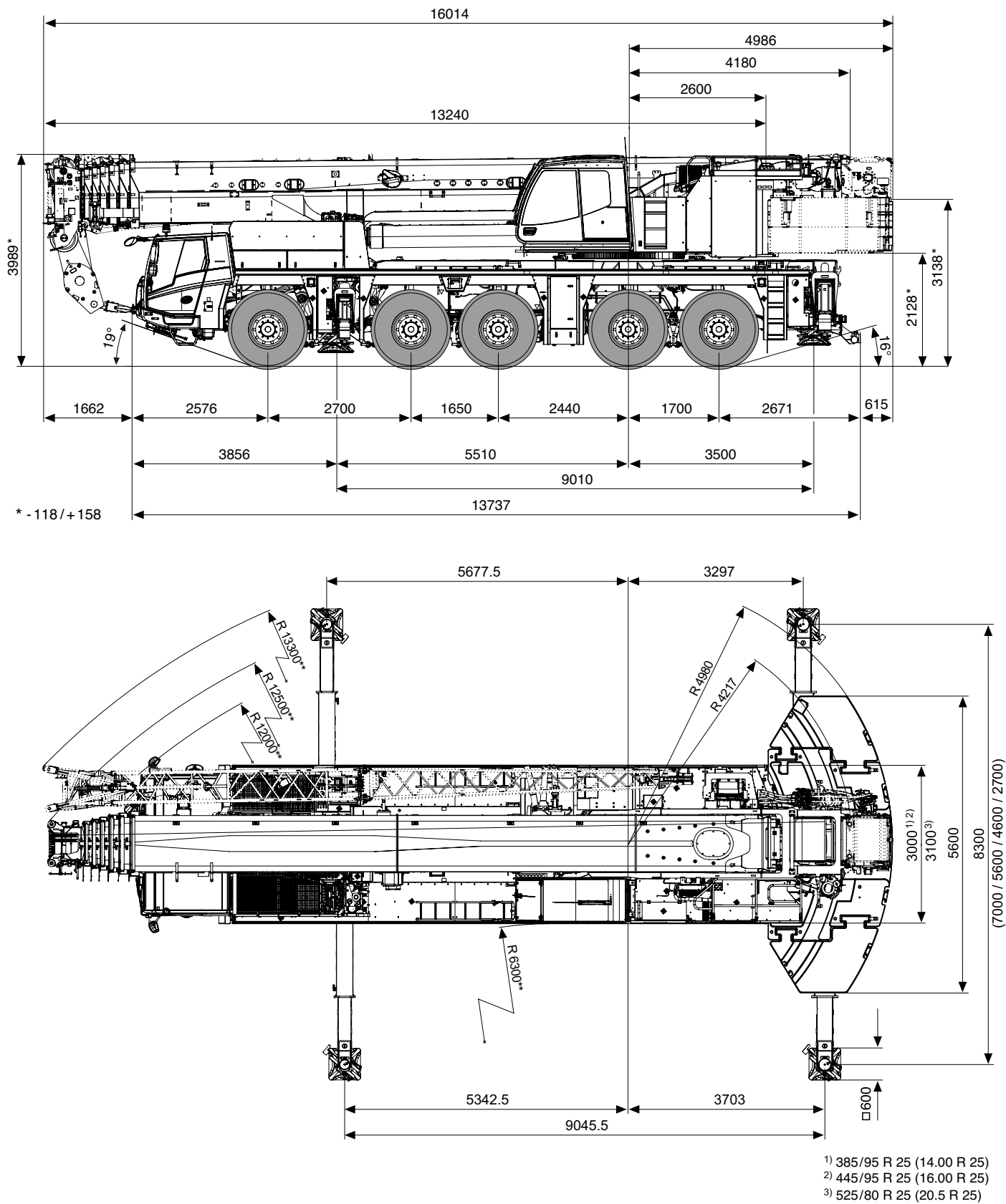
Boom systems · Auslegersysteme · Systèmes de flèche
Sistema de pluma · Sistemi di bracci · Конфигурации стрелы





General · Allgemein · Généralités
 Generalidades · Generalità · Общие положения

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



TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

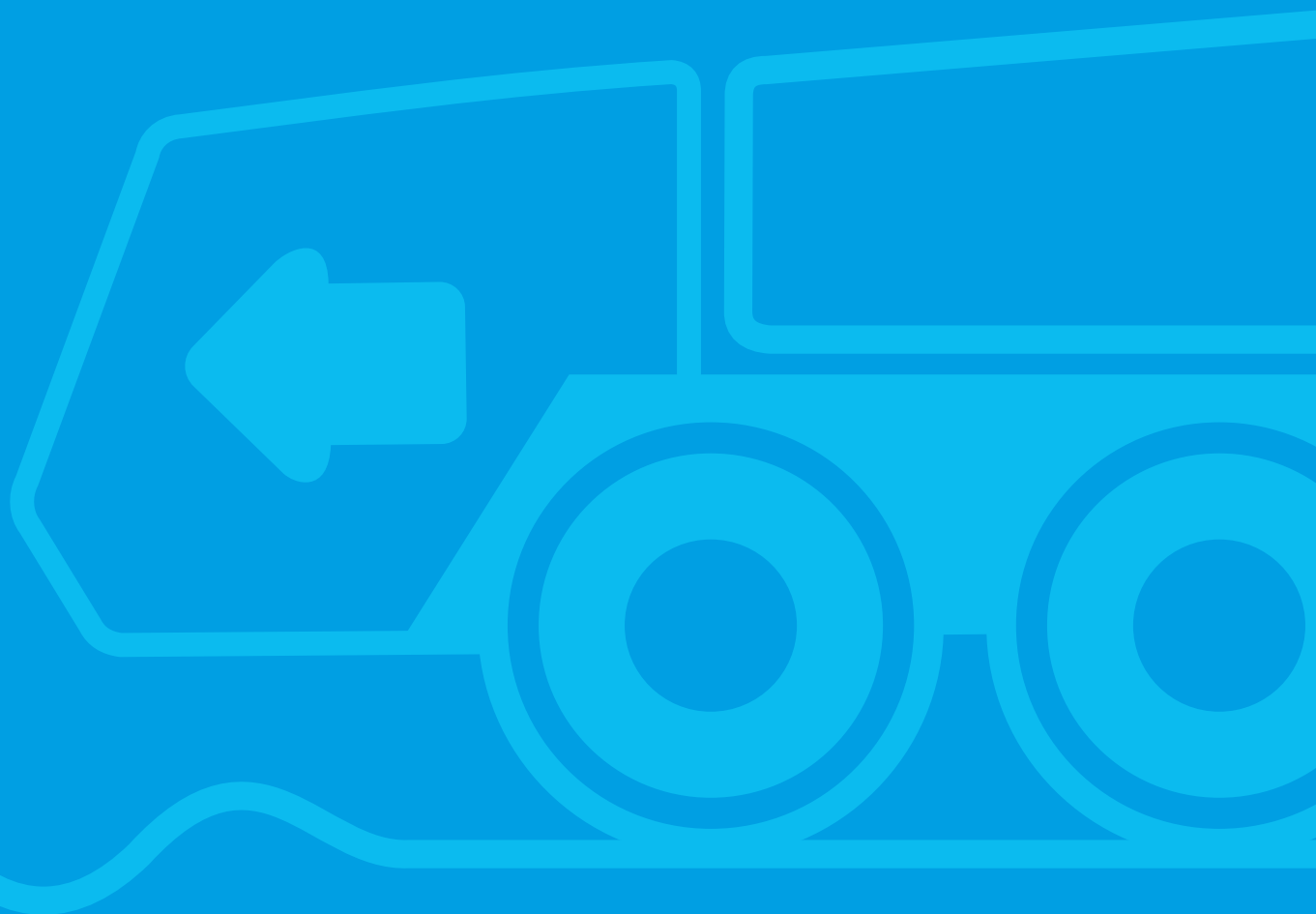
TECHNISCHE DATEN FÜR DIE STRASSEN- UND GELÄNDEFAHRT

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DATOS TÉCNICOS PARA SU TRASLADO POR CARRETERA Y TODO TERRENO

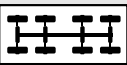
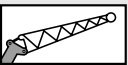
DATI TECNICI PER MARCIA SU STRADA E FUORI STRADA

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	< 60 t ***	10 x 8	445/95 R 25	80	-	0 t
max **	< 135 t ***	10 x 8	445/95 R 25	32 / 10	1.1 m + 34.9 m	71 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 оси зависит от установленного оборудования. Индивидуальный расчет по запросу.

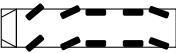
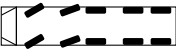
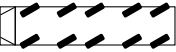
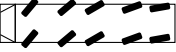
** Construction site · Baustelle · Chantier de construction · Obra · Cantiere · стройплощадка

*** Without second winch · Ohne zweite Winde · Sans deuxième treuil · Sin segundo cabrestante · Senza secondo argano · Без второй лебедки

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

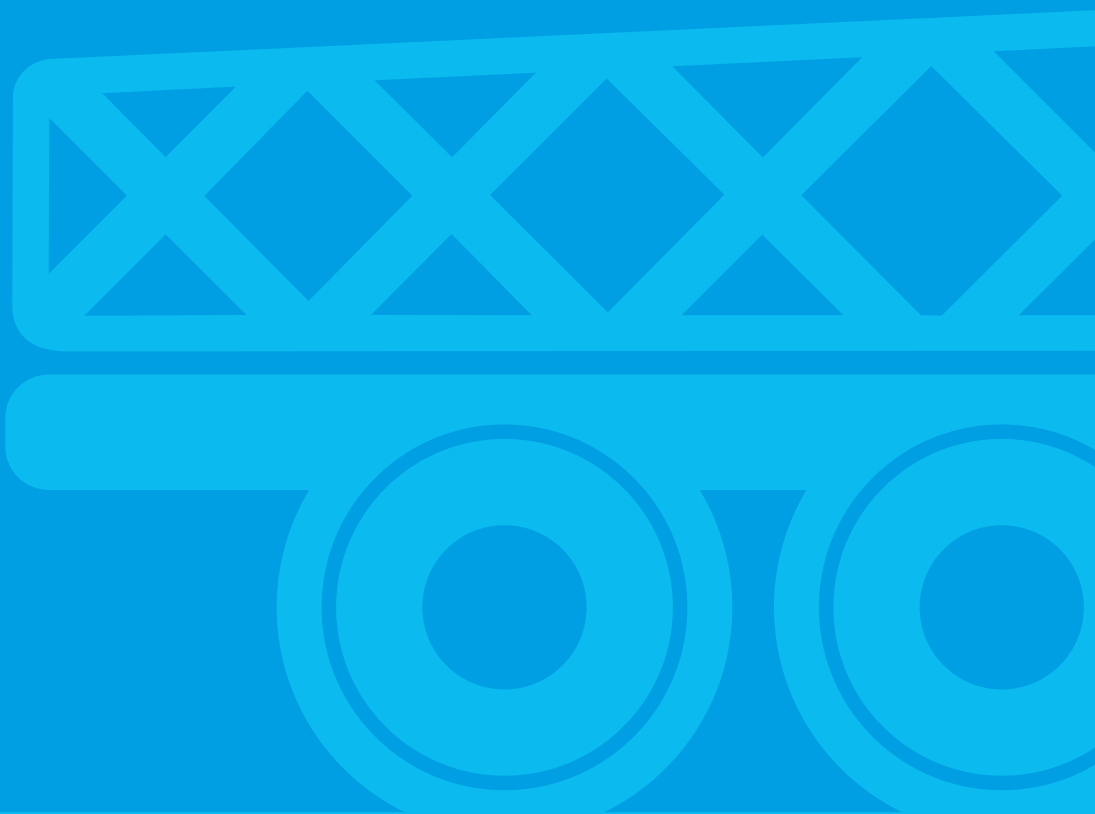
				
385/95 R 25	80 km/h max.	38 km/h max.	64 %	72 %
445/95 R 25 525/80 R 25	85 km/h max.	42 km/h max.	57 %	63 %

Steering · Lenkung · Direction
Dirección · Sterzo · Рулевое управление

		v < 30 km/h
		30 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 déboîtement AR · Supresión de movimiento transversal de parte posterior Soppressione oscillazione coda veicolo · Компенсация выноса задней части крана

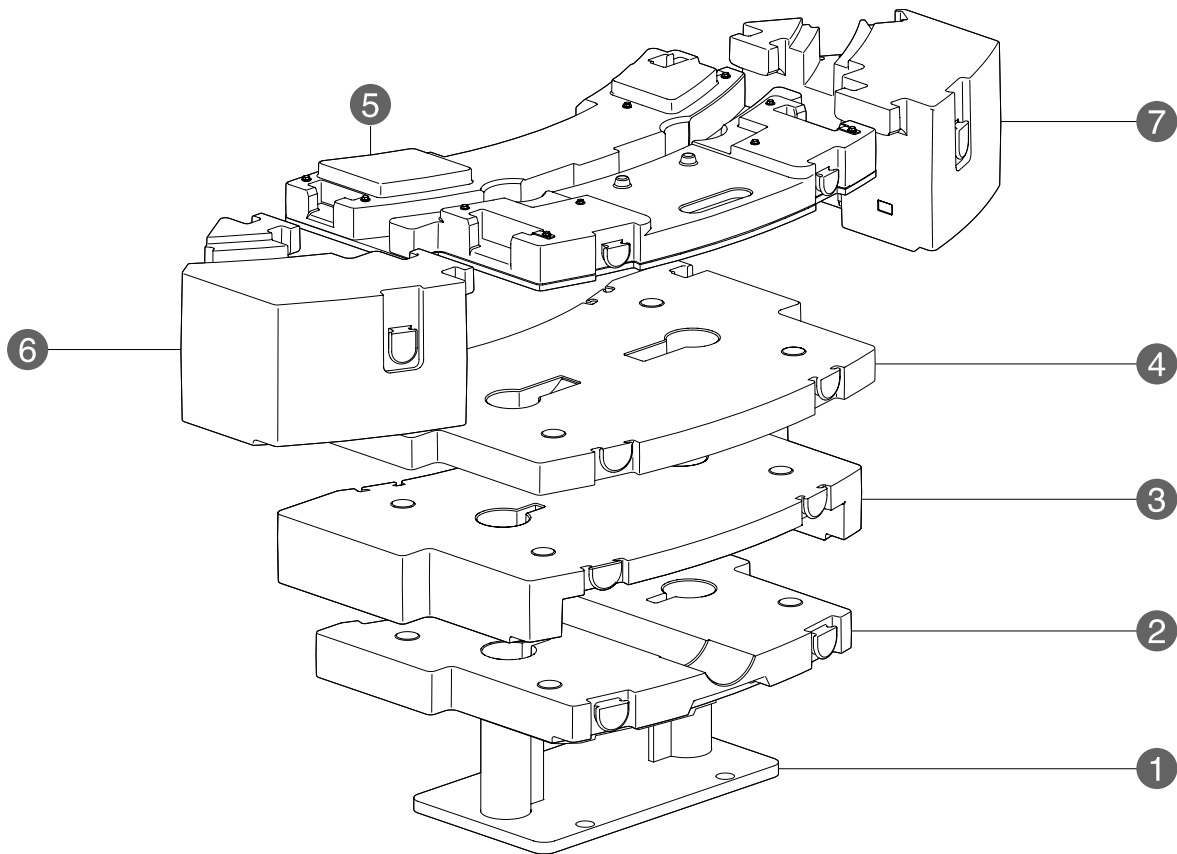
TECHNICAL DATA FOR TRANSPORT

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



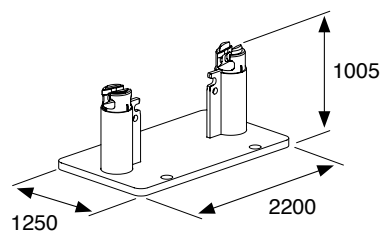
Transport · Transporte
Trasporto · Транспортировка

Counterweight · Gegengewicht · Contrepoids
Contrapeso · Contrappeso · Противовес

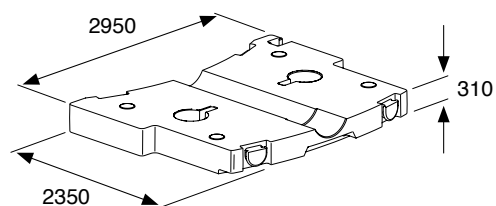


		12 t	23.5 t	35 t	47 t	71 t
1	2.0 t	1	1	1	1	1
2	10.0 t	1	1	1	1	1
3	11.5 t	-	1	1	1	1
4	11.5 t	-	-	1	1	1
5	12.0 t	-	-	-	1	1
6	12.0 t	-	-	-	-	1
7	12.0 t	-	-	-	-	1

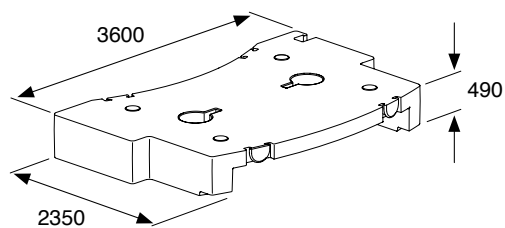
1



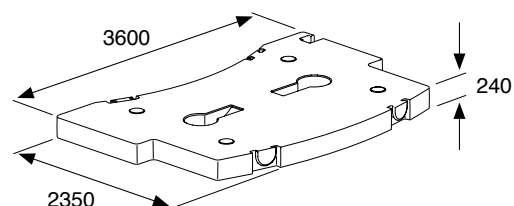
2



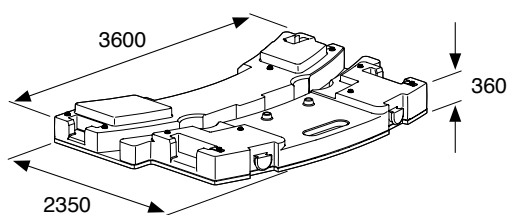
3



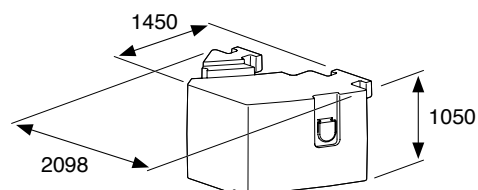
4



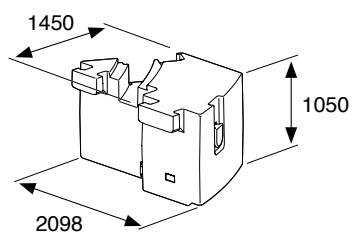
5



6



7



Transport · Transporte
Trasporto · Транспортировка

Jibs · Spitzen · Flèches
Plumines · Punte · гусек

	m	
0.4 + 1.2 m	0.4 m + 1.2 m	1
	1.1 m + 4.7 m	2
5.8 – 36 m	1.1 m + 10.9 m	2 + 4
HYDRO 5.8 – 36 m	1.1 m + 16.9 m	2 + 3 + 4
	1.1 m + 22.9 m	2 + 3 + 3 + 4
	1.1 m + 28.9 m	2 + 3 + 3 + 3 + 4
	1.1 m + 34.9 m	2 + 3 + 3 + 3 + 3 + 4

1

kg

329

2

kg

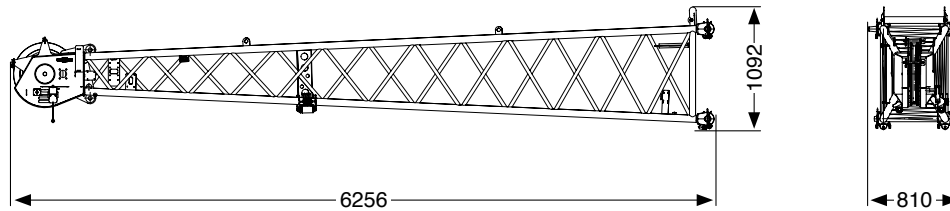
1020

3

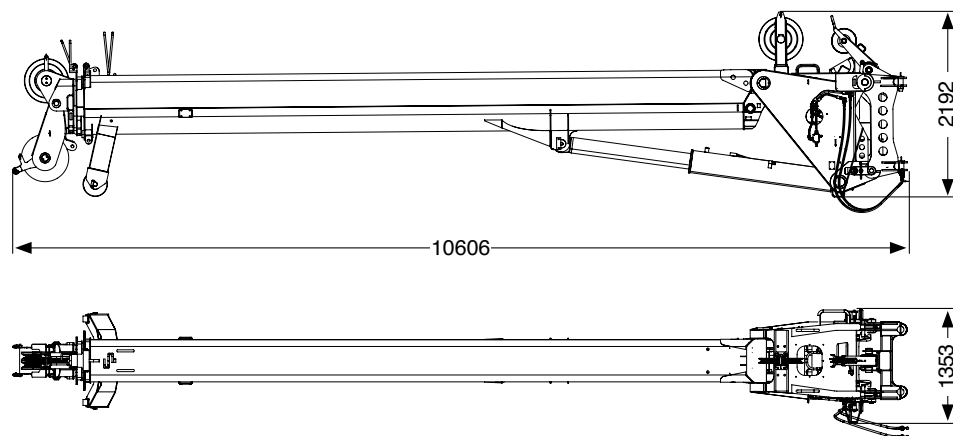
kg

438

4
kg
387

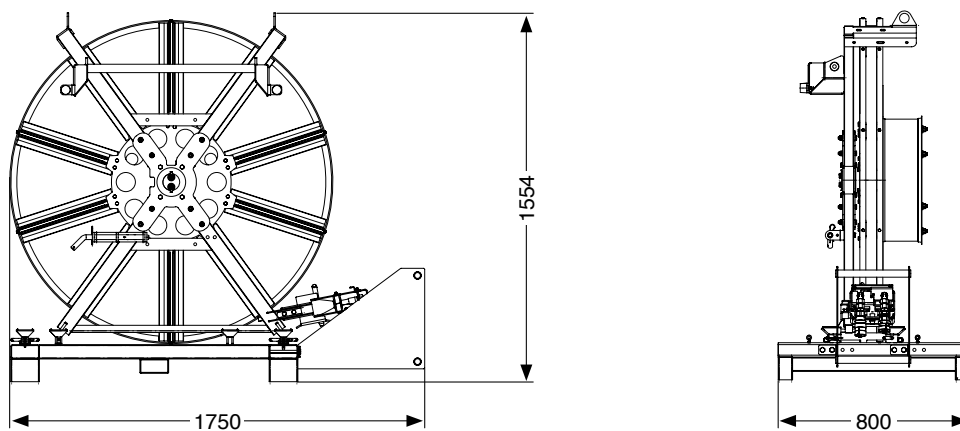


kg
4876



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

kg
261

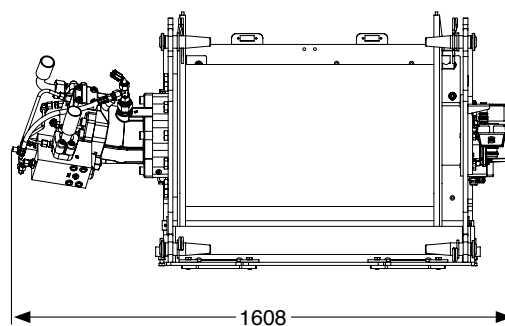
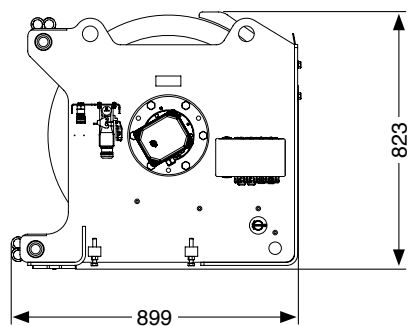


Transport · Transporte
Trasporto · Транспортировка

Auxiliary winch · Zusatzhubwinde · Treuil supplémentaire
Cabrestante auxiliar · Argano aggiuntivo · Дополнительная лебедка



937/
1635*



* with rope · mit Seil · avec câble · con cable · con fune · с тросом

TECHNICAL DATA FOR OPERATION

TECHNISCHE DATEN FÜR DEN EINSATZ

CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION

DATOS TÉCNICOS PARA EL USO

DATI TECNICI PER L'USO

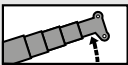
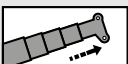
ТЕХНИЧЕСКИЕ ЭКСПЛУАТАЦИОННЫЕ ХАРАКТЕРИСТИКИ



Operation · Einsatz · Utilisation

Uso · Эксплуатация

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

	-0.8° – 83.5°	~ 58 s
	13.2 m – 68.0 m	~ 550 s

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

	0 – 1.2 min ⁻¹		0° / 180°
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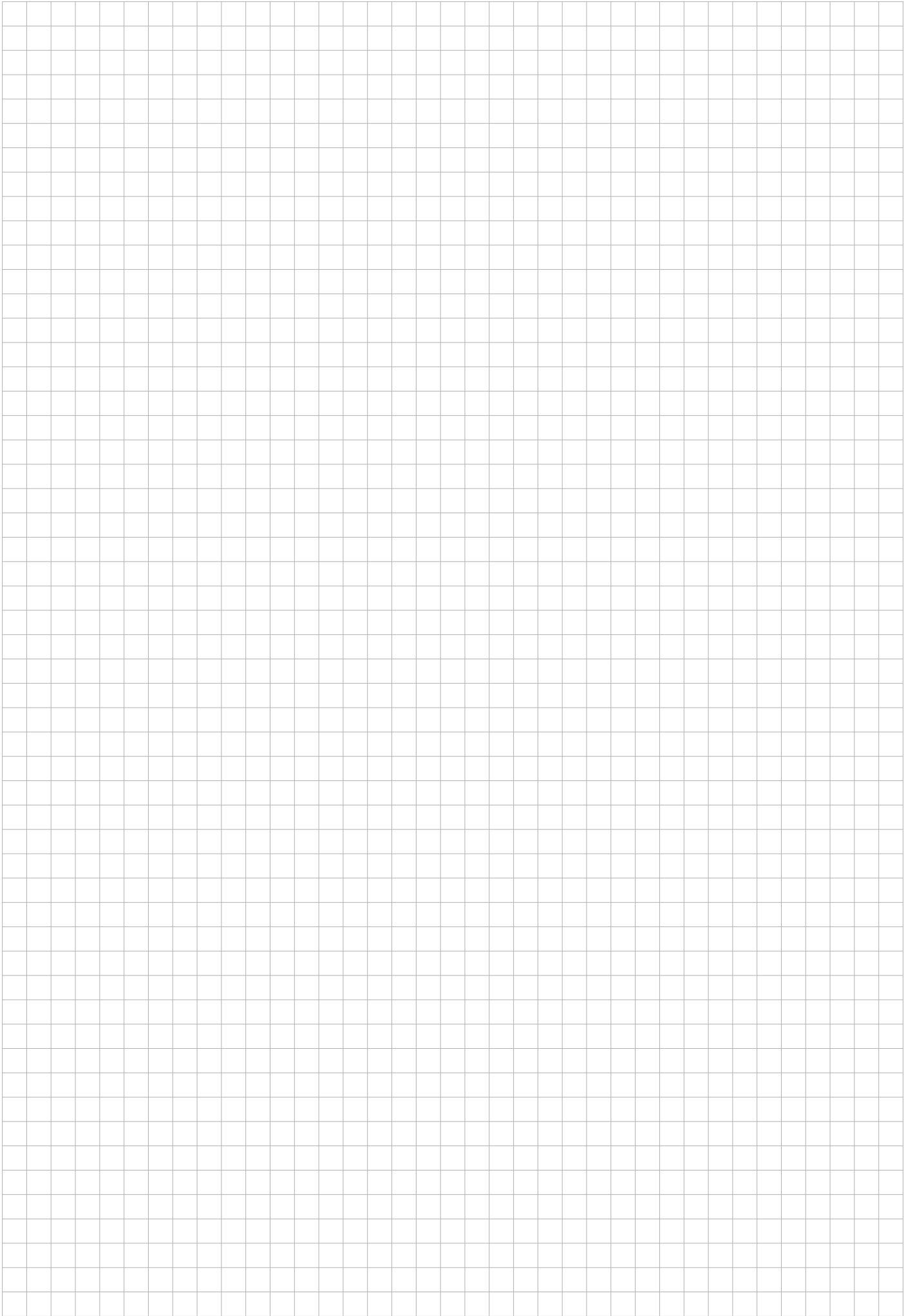
Winches · Hubwinden · Treuils Cabrestantes · Argani · Лебедка

			
	0 – 128 m/min	21 mm / 320 m	98
	0 – 128 m/min	21 mm / 320 m	98

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

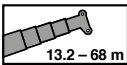
				
200*	177.9	9	19	1600
160*	142.1	7	15	1300
125*	105.4	5	11	1150
80*	67.9	3	7	800
80	67.9	3	7	800
32	29.4	1	3	450
10	10	-	1	300

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

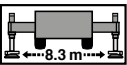


Operation · Einsatz · Utilisation
Uso · Эксплуатация

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



13.2 – 68 m



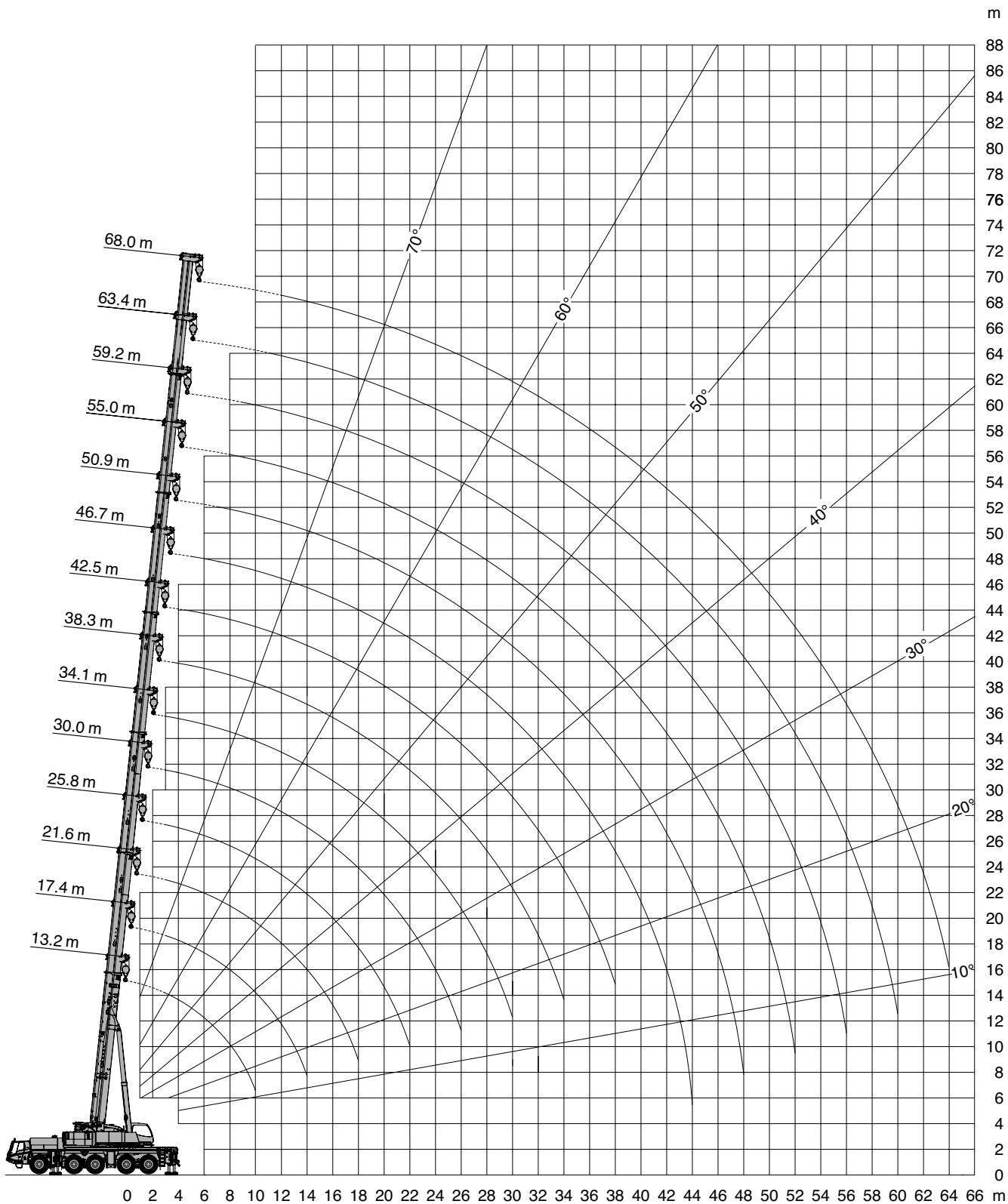
8.3 m



360°

71 t

DIN/ISO/EN





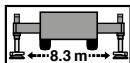
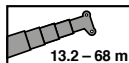
	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	220.0**														
3.0	177.9**	177.9**	140.0**	140.0**	114.4	90.5	70.0								
3.5	164.8**	164.8**	140.0**	140.0**	114.4	90.5	70.0	54.5							
4.0	152.9**	150.6**	140.0**	140.0**	111.8	90.5	70.0	54.5							
4.5	142.6**	138.1**	138.3**	134.1**	105.4	90.5	70.0	54.5	43.5						
5.0	133.4**	127.2	127.4	125.5	103.0	89.1	70.0	54.5	43.5	25.3					
6.0	113.1	109.5	109.6	108.1	103.0	80.3	70.0	54.5	43.5	34.5					
7.0	96.5	95.6	95.7	95.5	94.8	77.5	67.1	54.5	43.5	34.5	28.5				
8.0	83.9	83.9	84.0	84.4	83.1	77.5	61.5	54.5	43.5	34.5	28.5	23.0			
9.0	73.7	73.7	73.8	74.2	73.3	73.7	58.0	53.1	43.5	34.5	28.5	23.0	18.8		
10.0	63.7	63.7	66.3	66.0	66.2	65.5	58.0	49.3	43.0	34.5	28.5	23.0	18.8		
11.0			59.6	59.8	59.9	58.7	57.1	46.0	40.8	34.5	28.5	23.0	18.8	15.0	
12.0			54.0	54.6	54.2	53.1	54.0	43.5	38.8	33.8	28.5	23.0	18.8	15.0	13.8
14.0			45.2	45.8	45.4	45.8	45.2	40.5	36.3	30.9	27.0	23.0	18.8	15.0	13.8
16.0				39.2	39.6	39.2	38.6	37.5	32.6	29.3	25.6	22.8	18.8	15.0	13.8
18.0				34.1	34.4	34.1	33.4	34.1	29.5	27.1	23.7	21.2	18.8	15.0	13.8
20.0					30.3	29.9	30.5	30.0	26.9	25.0	22.0	20.0	17.6	15.0	13.8
22.0					26.9	26.5	27.2	26.6	24.7	23.0	20.5	18.7	16.7	15.0	13.8
24.0						24.8	24.3	23.5	22.8	21.3	19.2	17.6	15.7	14.2	13.2
26.0						22.1	21.5	20.7	20.0	19.8	18.0	16.5	14.8	13.4	12.4
28.0							19.2	18.4	17.7	18.0	16.9	15.5	14.0	12.7	11.5
30.0							17.3	16.5	16.3	16.5	15.7	14.7	13.2	12.1	10.7
32.0								14.8	15.5	14.8	14.0	13.9	12.5	11.4	10.0
34.0								14.2	14.0	13.3	12.7	13.1	11.9	10.9	9.4
36.0									12.8	12.0	12.1	12.3	11.4	10.4	8.8
38.0									11.6	11.1	11.3	11.1	10.9	9.9	8.3
40.0										10.7	10.3	10.1	10.3	9.4	7.9
42.0										10.1	9.4	9.2	9.4	9.0	7.4
44.0										7.9	8.6	8.8	8.6	8.5	7.0
46.0											8.2	8.3	7.8	7.8	6.6
48.0											7.8	7.6	7.5	7.1	6.2
50.0												7.0	7.1	6.5	5.9
52.0												6.5	6.5	6.0	5.5
54.0													6.0	5.4	5.2
56.0													5.5	5.0	4.9
58.0														4.5	4.5
60.0														4.2	4.1
62.0															3.7
64.0															3.4

* 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



DIN/ISO/EN

	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	220.0**														
3.0	177.9**	174.5**	140.0**	140.0**	114.4	90.5	70.0								
3.5	164.8**	157.4**	140.0**	140.0**	114.4	90.5	70.0	54.5							
4.0	152.9**	142.9**	140.0**	140.0**	111.8	90.5	70.0	54.5							
4.5	137.4**	130.6	130.7	129.2	105.4	90.5	70.0	54.5	43.5						
5.0	123.6	119.9	120.1	118.6	103.0	89.1	70.0	54.5	43.5	25.3					
6.0	102.6	102.5	102.7	102.5	101.8	80.3	70.0	54.5	43.5	34.5					
7.0	86.9	86.9	87.0	87.4	86.1	77.5	67.1	54.5	43.5	34.5	28.5				
8.0	75.0	75.0	75.8	75.5	75.7	75.0	61.5	54.5	43.5	34.5	28.5	23.0			
9.0	65.7	65.7	66.6	66.7	66.4	65.7	58.0	53.1	43.5	34.5	28.5	23.0	18.8		
10.0	58.3	58.3	59.1	59.8	59.4	58.3	58.0	49.3	43.0	34.5	28.5	23.0	18.8		
11.0			53.1	53.7	53.3	53.7	51.7	46.0	40.8	34.5	28.5	23.0	18.8	15.0	
12.0			48.4	48.5	48.3	48.5	46.2	43.5	38.8	33.8	28.5	23.0	18.8	15.0	13.8
14.0			39.6	39.8	40.3	39.8	38.9	37.9	35.8	30.9	27.0	23.0	18.8	15.0	13.8
16.0				32.8	32.7	33.3	33.2	31.9	30.2	29.2	25.6	22.8	18.8	15.0	13.8
18.0				27.3	27.8	28.1	27.6	26.8	25.8	25.0	23.7	21.2	18.8	15.0	13.8
20.0					24.2	23.9	23.4	22.6	21.9	22.6	21.2	20.0	17.6	15.0	13.8
22.0					20.9	20.7	20.1	19.7	20.1	19.4	18.5	18.7	16.7	15.0	13.8
24.0						18.0	17.5	18.0	17.5	16.8	16.2	16.5	15.7	14.2	13.2
26.0						15.9	15.8	16.1	15.3	15.4	15.0	14.9	14.8	13.4	12.4
28.0							14.8	14.3	13.5	13.9	13.3	13.3	13.2	12.7	11.5
30.0							13.3	12.9	12.5	12.6	12.4	12.1	11.8	11.7	10.7
32.0								11.6	11.8	11.2	11.4	10.8	10.9	10.3	10.0
34.0								10.6	10.8	10.1	10.3	10.2	9.7	9.2	9.1
36.0									9.8	9.6	9.3	9.1	8.7	8.2	8.1
38.0									8.9	8.9	8.7	8.3	7.8	7.3	7.2
40.0										8.1	7.9	7.5	7.0	6.5	6.4
42.0										7.4	7.2	6.7	6.3	5.8	5.7
44.0										6.8	6.5	6.1	5.7	5.1	5.1
46.0											6.0	5.5	5.1	4.5	4.5
48.0											5.4	5.0	4.5	4.0	4.0
50.0												4.5	4.1	3.5	3.5
52.0												4.1	3.6	3.1	3.1
54.0													3.2	2.7	2.7
56.0													2.9	2.3	2.3
58.0														2.0	2.0
60.0														1.7	1.6
62.0															1.4
64.0															1.1

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

** 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



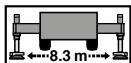
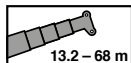
 m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	220.0**														
3.0	177.9**	170.0**	140.0**	140.0**	114.4	90.5	70.0								
3.5	164.8**	153.0**	140.0**	140.0**	114.4	90.5	70.0	54.5							
4.0	146.7**	138.6**	138.8**	137.3**	111.8	90.5	70.0	54.5							
4.5	130.5	126.3	126.5	125.0	105.4	90.5	70.0	54.5	43.5						
5.0	117.4	115.8	116.0	115.7	103.0	89.1	70.0	54.5	43.5	25.3					
6.0	96.8	96.8	96.9	96.7	96.0	80.3	70.0	54.5	43.5	34.5					
7.0	81.7	81.7	82.7	82.3	82.5	77.5	67.1	54.5	43.5	34.5	28.5				
8.0	70.5	70.5	71.4	71.5	71.2	66.9	61.5	54.5	43.5	34.5	28.5	23.0			
9.0	61.7	61.7	62.6	63.2	61.9	59.7	55.9	52.4	43.5	34.5	28.5	23.0	18.8		
10.0	54.5	54.5	55.3	56.0	54.2	52.1	48.9	45.9	43.0	34.5	28.5	23.0	18.8		
11.0			49.4	49.6	48.5	46.0	43.8	42.8	39.0	34.5	28.5	23.0	18.8	15.0	
12.0			42.7	43.5	43.3	41.0	40.7	38.4	36.1	33.8	28.5	23.0	18.8	15.0	13.8
14.0			33.0	33.8	33.8	34.8	33.5	31.5	29.6	28.5	27.0	23.0	18.8	15.0	13.8
16.0				28.1	28.4	28.2	27.6	26.7	25.1	24.9	23.3	22.8	18.8	15.0	13.8
18.0				23.3	23.6	23.4	22.9	22.4	22.7	21.3	19.8	20.0	18.8	15.0	13.8
20.0					20.0	19.7	19.5	20.0	19.2	19.4	18.2	17.7	17.0	15.0	13.8
22.0					17.2	16.9	17.7	17.3	16.4	16.7	16.3	15.8	15.4	15.0	13.8
24.0						15.4	15.4	15.1	14.9	14.8	14.8	14.3	14.1	13.2	12.9
26.0						13.8	13.5	13.2	13.6	13.0	13.1	12.9	12.5	11.7	11.4
28.0							12.0	12.3	12.0	12.1	11.8	11.4	10.9	10.3	10.1
30.0							10.7	11.0	10.9	10.7	10.5	10.1	9.6	9.0	9.0
32.0								9.8	9.9	9.5	9.3	8.9	8.4	7.9	7.9
34.0								8.9	8.9	8.5	8.3	7.9	7.4	6.9	6.9
36.0									8.0	7.7	7.4	7.0	6.6	6.0	6.0
38.0									7.2	6.9	6.7	6.2	5.8	5.3	5.2
40.0										6.2	6.0	5.6	5.1	4.6	4.5
42.0										5.6	5.4	4.9	4.5	4.0	3.9
44.0										5.1	4.8	4.4	3.9	3.4	3.4
46.0											4.3	3.9	3.4	2.9	2.9
48.0											3.9	3.4	3.0	2.5	2.4
50.0												3.0	2.6	2.0	2.0
52.0												2.7	2.2	1.7	1.6
54.0													1.9	1.3	1.3
56.0													1.6	1.0	
58.0														0.7	
60.0														0.5	

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DIN/ISO/EN

	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	217.2**														
3.0	177.9**	165.3**	140.0**	140.0**	114.4	90.5	70.0								
3.5	158.6**	148.3**	140.0**	140.0**	114.4	90.5	70.0	54.5							
4.0	139.2**	134.0**	134.2**	132.7	111.8	90.5	70.0	54.5							
4.5	123.8	121.9	122.1	120.5	105.4	90.5	70.0	54.5	43.5						
5.0	110.9	110.9	111.0	110.8	103.0	89.1	70.0	54.5	43.5	25.3					
6.0	91.0	91.0	91.9	91.6	86.0	78.4	70.0	54.5	43.5	34.5					
7.0	76.8	76.8	77.7	77.1	71.5	65.8	60.7	54.5	43.5	34.5	28.5				
8.0	65.9	65.9	66.9	64.3	61.4	57.4	53.4	49.6	43.5	34.5	28.5	23.0			
9.0	55.7	55.7	57.4	54.3	52.3	49.1	47.7	43.5	40.6	34.5	28.5	23.0	18.8		
10.0	45.8	45.8	47.9	47.5	45.3	44.1	42.1	39.4	36.8	34.5	28.5	23.0	18.8		
11.0			40.5	41.3	40.1	39.4	37.2	35.2	32.6	31.2	28.5	23.0	18.8	15.0	
12.0			34.8	35.6	36.7	35.1	33.2	31.5	29.9	27.8	27.1	23.0	18.8	15.0	13.8
14.0			27.1	28.3	28.6	28.4	27.1	26.0	25.4	24.2	22.1	21.8	18.8	15.0	13.8
16.0				22.7	23.0	22.8	22.6	22.8	21.2	20.9	20.3	19.2	18.1	15.0	13.8
18.0				18.7	19.0	19.0	19.6	19.3	19.0	18.3	17.8	16.9	15.9	15.0	13.8
20.0					15.9	16.8	16.5	16.2	16.6	16.2	15.7	15.1	14.2	13.2	12.8
22.0					14.3	14.3	14.1	14.5	14.3	14.2	13.9	13.1	12.3	11.3	11.0
24.0						12.4	12.8	12.5	12.6	12.3	12.1	11.4	10.7	9.8	9.5
26.0						10.8	11.1	11.0	11.0	10.6	10.4	10.0	9.3	8.4	8.2
28.0							9.8	9.6	9.6	9.2	9.0	8.6	8.1	7.3	7.1
30.0							8.6	8.5	8.4	8.1	7.9	7.4	7.0	6.3	6.1
32.0								7.5	7.4	7.1	6.9	6.4	6.0	5.4	5.3
34.0								6.7	6.6	6.2	6.0	5.6	5.1	4.5	4.5
36.0									5.8	5.5	5.3	4.8	4.4	3.8	3.8
38.0									5.2	4.8	4.6	4.2	3.7	3.1	3.1
40.0										4.3	4.0	3.6	3.1	2.6	2.5
42.0										3.8	3.5	3.1	2.6	2.0	2.0
44.0										3.3	3.0	2.6	2.1		
46.0											2.6	2.2	1.7		
48.0											2.2	1.8	1.3		
50.0												1.4	1.0		
52.0												1.2			

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 m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	206.8**														
3.0	174.3**	160.2**	140.0**	140.0**	114.4	90.5	70.0								
3.5	150.3**	143.3**	140.0**	140.0**	114.4	90.5	70.0	54.5							
4.0	131.8	129.1	129.3	127.7	111.8	90.5	70.0	54.5							
4.5	116.4	116.4	116.6	116.4	103.0	90.5	70.0	54.5	43.5						
5.0	103.9	103.9	104.1	101.2	89.8	80.2	70.0	54.5	43.5	25.3					
6.0	85.2	85.2	84.4	77.5	70.8	64.2	58.5	54.5	43.5	34.5					
7.0	70.1	70.1	65.6	62.2	58.8	54.5	51.0	46.0	43.3	34.5	28.5				
8.0	55.2	55.2	54.1	51.7	48.6	47.4	44.3	41.0	37.6	34.5	28.5	23.0			
9.0	43.5	43.5	45.2	43.5	42.8	40.5	38.0	35.6	32.6	30.9	28.5	23.0	18.8		
10.0	35.4	35.4	37.6	38.5	37.0	35.2	33.4	32.1	30.3	27.1	26.0	23.0	18.8		
11.0			32.1	33.4	32.5	30.9	29.4	29.2	26.8	25.3	22.7	22.2	18.8	15.0	
12.0			27.4	28.6	28.8	27.4	27.3	26.0	25.0	23.4	21.6	20.0	18.8	15.0	13.8
14.0			20.7	21.9	22.2	22.9	22.0	20.9	20.7	20.2	18.9	17.3	16.2	15.0	13.8
16.0				17.3	18.3	18.4	18.1	18.1	17.6	16.7	15.9	15.0	14.0	12.8	12.4
18.0				13.9	14.8	14.9	15.4	15.3	14.9	14.1	13.4	12.5	11.6	10.6	10.3
20.0					12.2	12.5	12.8	12.6	12.6	12.0	11.4	10.6	9.7	8.8	8.5
22.0					10.2	10.4	10.7	10.6	10.6	10.2	9.7	9.0	8.2	7.3	7.1
24.0						8.9	9.1	9.0	8.9	8.6	8.4	7.6	6.9	6.1	5.9
26.0						7.6	7.8	7.6	7.6	7.3	7.1	6.5	5.8	5.0	4.8
28.0							6.7	6.6	6.5	6.2	6.0	5.5	4.9	4.1	3.9
30.0							5.8	5.6	5.6	5.2	5.0	4.6	4.1	3.3	3.2
32.0								4.9	4.8	4.5	4.2	3.8	3.3		
34.0								4.2	4.1	3.8	3.5	3.1	2.7		
36.0									3.5	3.2	2.9	2.5			
38.0									3.0	2.7	2.4	2.0			
40.0										2.2	2.0	1.5			
42.0										1.8	1.5				
44.0										1.5	1.2				
46.0											0.9				
48.0											0.6				



 m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	195.3**														
3.0	164.6**	154.6**	140.0**	140.0**	114.4	90.5	70.0								
3.5	141.8**	137.8**	138.0**	136.5**	114.4	90.5	70.0	54.5							
4.0	123.3	123.3	123.6	113.4	96.4	83.2	70.0	54.5							
4.5	108.7	108.7	104.8	94.0	82.7	72.5	64.1	54.5	43.5						
5.0	96.9	96.9	87.2	78.2	69.8	61.8	58.0	52.4	43.5	25.3					
6.0	68.0	68.0	64.1	59.7	55.0	52.7	48.3	43.5	38.0	34.5					
7.0	51.4	51.4	49.4	47.3	45.5	42.4	39.6	35.9	31.9	29.6	28.2				
8.0	40.2	40.2	40.5	39.4	37.4	34.8	34.0	31.4	28.5	25.9	23.3	22.5			
9.0	31.2	31.2	32.9	32.4	31.0	30.5	28.7	26.9	25.7	23.5	21.4	19.5	18.8		
10.0	25.0	24.4	27.4	27.2	26.7	26.1	24.8	24.2	23.1	21.4	19.1	17.7	16.5		
11.0			22.3	23.2	23.5	22.6	22.2	21.1	20.2	19.0	17.9	16.7	15.0	14.0	
12.0			18.5	20.1	20.5	20.0	19.5	18.6	17.9	16.8	15.8	14.7	13.5	12.2	11.7
14.0			13.2	14.7	15.7	15.7	15.5	14.8	14.2	13.3	12.5	11.6	10.6	9.5	9.1
16.0				11.1	12.1	12.4	12.5	12.0	11.5	10.8	10.1	9.2	8.3	7.4	7.0
18.0				8.5	9.5	9.8	10.1	9.9	9.5	8.8	8.2	7.4	6.6	5.7	5.4
20.0					7.6	7.8	8.1	8.0	7.9	7.3	6.7	6.0	5.2	4.4	4.1
22.0					6.1	6.3	6.6	6.5	6.4	6.0	5.5	4.8	4.1	3.3	
24.0						5.1	5.4	5.2	5.2	4.9	4.5	3.8	3.1		
26.0						4.2	4.4	4.3	4.2	3.9	3.6	3.0			
28.0							3.6	3.5	3.4	3.1	2.9	2.3			
30.0							2.9	2.8	2.7	2.4	2.2				
32.0								2.2	2.1	1.8	1.6				
34.0								1.7	1.6	1.3					
36.0									1.2						
38.0									0.8						

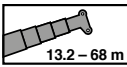
* Over rear · Nach hinten · A l'arrière · Hacia atrás · Indietro · Назад

** With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire

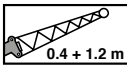
Con equipamiento de elevación adicional · Con attrezzaggio di sollevamento supplementare · С дополнительным подъемным оборудованием

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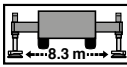
Working range · Arbeitsbereich · Rayon de travail
Zona de trabajo · Area di lavoro · Рабочая зона



13.2 – 68 m



0.4 + 1.2 m



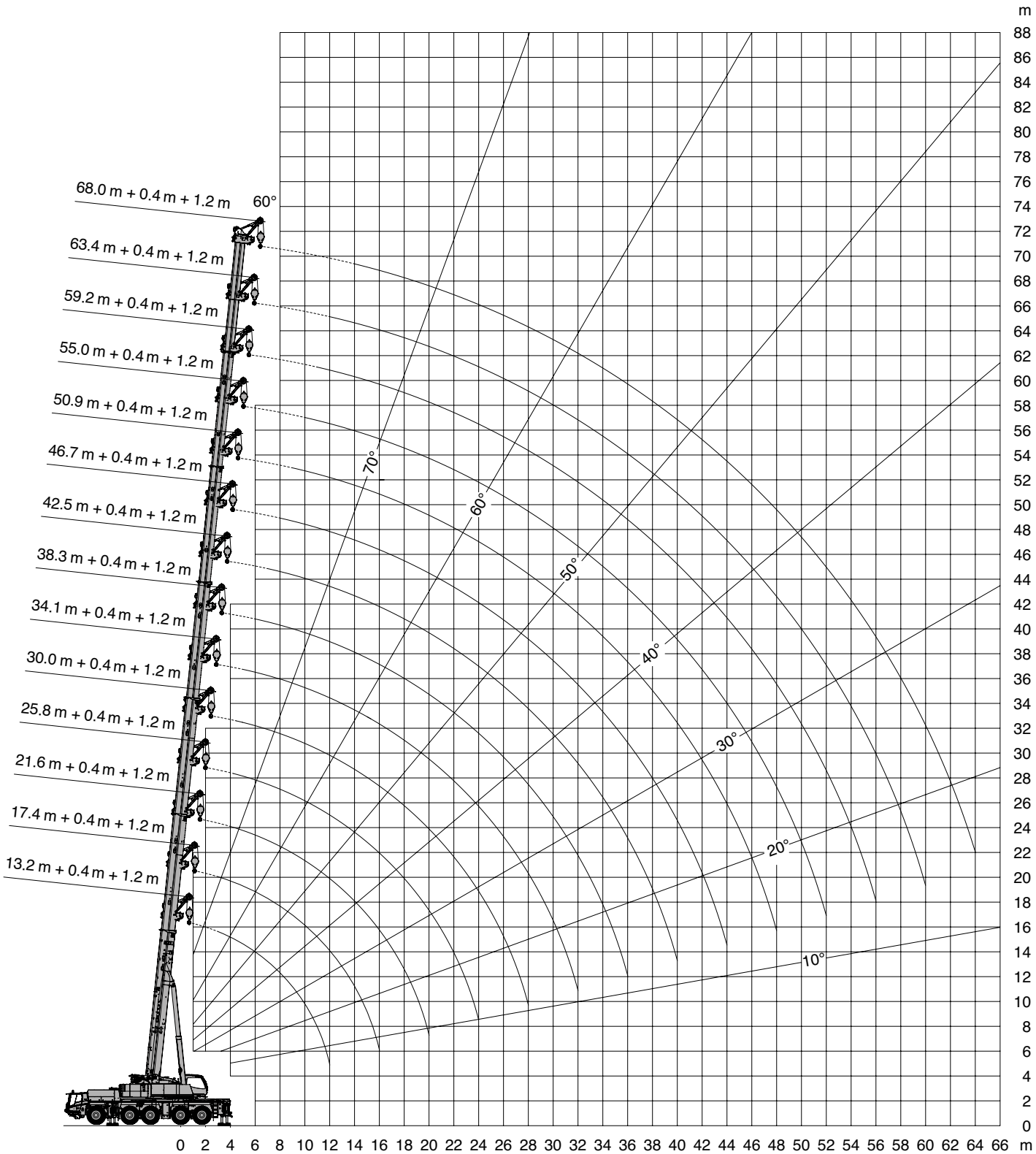
8.3 m



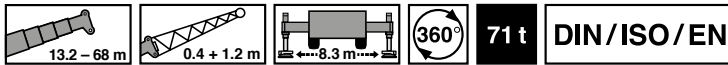
360°

71 t

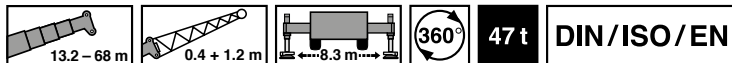
DIN/ISO/EN



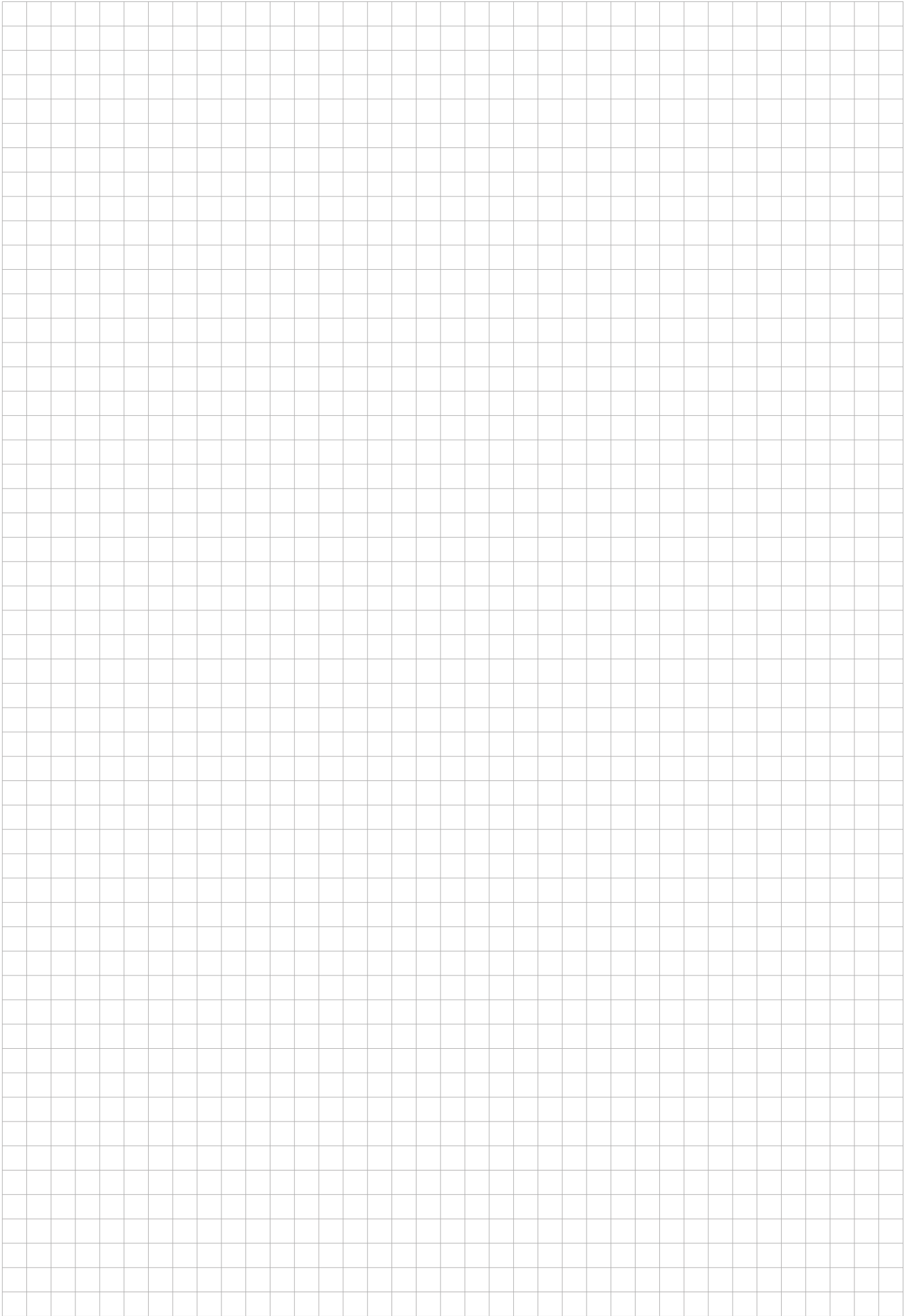
Lifting capacities · Traglasten · Charges de levage
Cargas · Portate · Грузоподъемность



 m	13.2 m + 0.4 m + 1.2 m	30.0 m + 0.4 m + 1.2 m	42.5 m + 0.4 m + 1.2 m	55.0 m + 0.4 m + 1.2 m	68.0 m + 0.4 m + 1.2 m
	60°	60°	60°	60°	60°
3.0	19.7				
3.5	19.7				
4.0	19.7				
4.5	19.7	19.7			
5.0	19.7	19.7			
6.0	19.7	19.7			
7.0	19.7	19.7	19.7		
8.0	19.7	19.7	19.7		
9.0	19.7	19.7	19.7		
10.0	19.7	19.7	19.7	17.0	
11.0	19.7	19.7	19.7	17.0	
12.0	19.7	19.7	19.7	17.0	
14.0		19.7	19.7	17.0	10.1
16.0		19.7	19.7	17.0	10.1
18.0		19.7	19.7	17.0	10.1
20.0		19.7	19.7	17.0	10.1
22.0		19.7	19.7	16.9	10.1
24.0		19.7	19.7	15.9	10.1
26.0		19.7	19.5	15.0	10.1
28.0		19.0	17.1	14.1	10.1
30.0			15.2	13.4	10.1
32.0			13.5	12.7	10.1
34.0			12.0	12.0	9.5
36.0			11.1	11.4	8.9
38.0			10.5	10.5	8.4
40.0			10.0	9.5	7.9
42.0				8.6	7.4
44.0				7.8	7.0
46.0				7.1	6.7
48.0				6.8	6.3
50.0				6.5	5.9
52.0				6.2	5.6
56.0					4.8
60.0					4.0
64.0					3.2

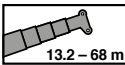


 m	13.2 m + 0.4 m + 1.2 m	30.0 m + 0.4 m + 1.2 m	42.5 m + 0.4 m + 1.2 m	55.0 m + 0.4 m + 1.2 m	68.0 m + 0.4 m + 1.2 m
	60°	60°	60°	60°	60°
3.0	19.7				
3.5	19.7				
4.0	19.7				
4.5	19.7	19.7			
5.0	19.7	19.7			
6.0	19.7	19.7			
7.0	19.7	19.7	19.7		
8.0	19.7	19.7	19.7		
9.0	19.7	19.7	19.7		
10.0	19.7	19.7	19.7	17.0	
11.0	19.7	19.7	19.7	17.0	
12.0	19.7	19.7	19.7	17.0	
14.0		19.7	19.7	17.0	10.1
16.0		19.7	19.7	17.0	10.1
18.0		19.7	19.7	17.0	10.1
20.0		19.7	19.7	17.0	10.1
22.0		19.7	18.1	16.9	10.1
24.0		18.4	16.5	15.9	10.1
26.0		16.2	15.2	14.3	10.1
28.0		14.3	13.3	12.5	10.1
30.0			11.7	10.9	10.1
32.0			10.9	10.4	10.1
34.0			10.3	9.9	9.1
36.0			9.4	9.1	8.1
38.0			8.5	8.2	7.2
40.0			8.0	7.4	6.4
42.0				6.7	5.7
44.0				6.0	5.0
46.0				5.4	4.4
48.0				4.9	3.9
50.0				4.4	3.4
52.0				4.0	3.0
56.0					2.2
60.0					1.5

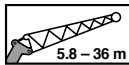


Operation · Einsatz · Utilisation
Uso · Эксплуатация

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



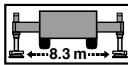
13.2 – 68 m



5.8 – 36 m



HYDRO
5.8 – 36 m



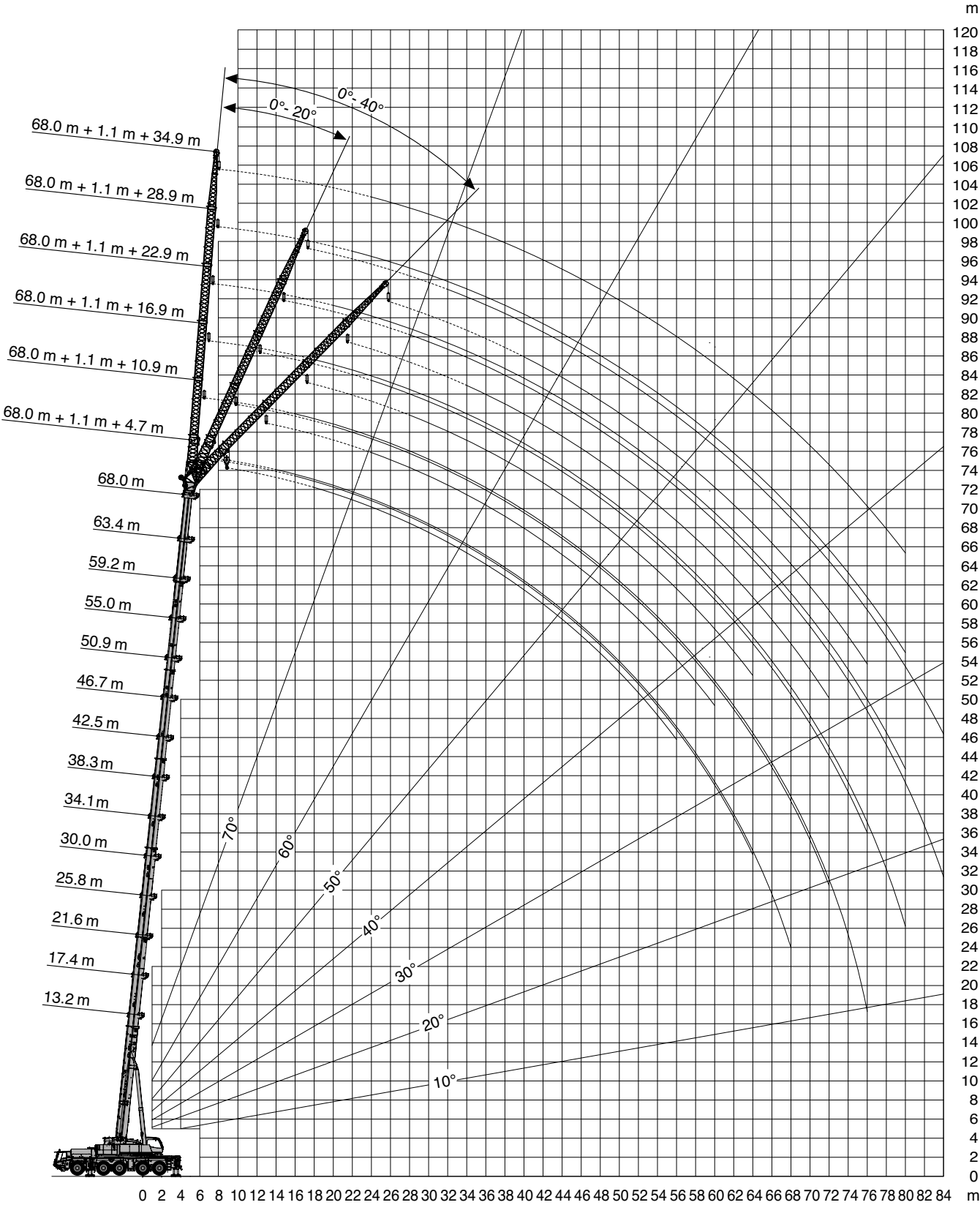
8.3 m

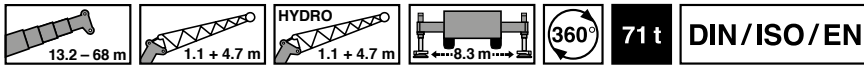


360°

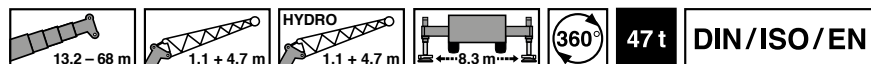
71 t

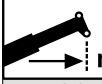
DIN/ISO/EN

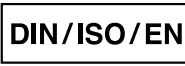
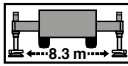
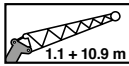
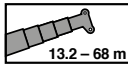




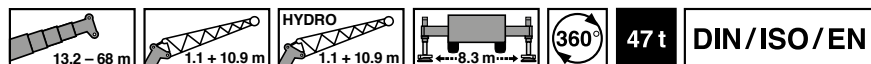
 m	13.2 m + 1.1 m + 4.7 m			30.0 m + 1.1 m + 4.7 m			42.5 m + 1.1 m + 4.7 m			55.0 m + 1.1 m + 4.7 m			68.0 m + 1.1 m + 4.7 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	46.0														
3.5	43.6	30.9													
4.0	41.5	29.9													
4.5	39.6	28.9	23.4	33.9											
5.0	37.8	28.1	22.9	42.9											
6.0	34.8	26.5	22.0	42.9											
7.0	32.2	25.1	21.2	42.9	29.2		21.6								
8.0	30.0	24.0	20.6	41.0	28.3	22.6	24.0								
9.0	28.2	22.9	20.0	39.0	27.4	22.1	24.0	24.0							
10.0	26.6	22.1	19.5	37.3	26.6	21.7	24.0	24.0	19.7	13.2					
11.0	25.2	21.3	19.2	35.6	25.8	21.3	24.0	24.0	21.8	15.5					
12.0	23.9	20.6	19.0	34.2	25.2	21.0	24.0	24.0	21.5	15.5	15.5				
14.0	20.7	18.8		31.6	23.9	20.3	24.0	24.0	20.9	15.5	15.5	15.5	10.0		
16.0	18.2			29.4	22.9	19.8	24.0	24.0	20.5	15.5	15.5	15.5	10.0	10.0	
18.0				27.6	22.0	19.4	23.7	23.0	20.1	15.5	15.5	15.5	10.0	10.0	10.0
20.0				26.0	21.2	19.0	22.1	21.8	19.7	15.5	15.5	15.5	10.0	10.0	10.0
22.0				24.1	20.5	18.8	21.3	20.8	19.4	14.9	14.7	14.7	10.0	10.0	10.0
24.0				22.9	20.0	18.5	20.0	19.6	19.1	14.0	13.9	14.3	10.0	10.0	10.0
26.0				21.4	19.2	18.3	18.8	18.4	18.3	13.3	13.6	13.6	10.0	9.8	9.6
28.0				19.0	18.5		17.2	17.4	17.3	12.9	12.8	12.8	9.6	9.4	9.3
30.0				17.1	17.2		15.2	15.6	15.8	12.2	12.1	12.1	9.2	9.1	9.0
32.0				14.9			13.8	13.8	14.0	11.6	11.5	11.5	8.8	8.7	8.9
34.0							13.1	12.9	12.9	11.0	10.9	10.9	8.5	8.4	8.5
36.0							12.0	12.3	12.3	10.4	10.4	10.4	7.9	7.9	7.9
38.0							10.9	11.1		9.9	9.9	9.9	7.4	7.4	7.5
40.0							9.9	10.0		9.4	9.4	9.4	7.0	7.0	7.0
42.0							9.0	9.1		8.5	8.7	8.8	6.5	6.6	6.6
44.0							8.4	8.3		7.7	7.9	7.9	6.2	6.2	6.2
46.0										7.3	7.3		5.8	5.8	5.9
48.0										6.9	6.9		5.5	5.5	5.5
50.0										6.5	6.6		5.2	5.2	5.2
52.0										5.9	6.0		4.9	4.9	5.0
56.0										5.2			4.3	4.4	4.5
60.0													3.8	3.9	
64.0													3.1	3.2	
68.0													2.5		



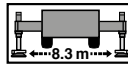
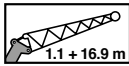
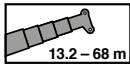
 m	13.2 m + 1.1 m + 4.7 m			30.0 m + 1.1 m + 4.7 m			42.5 m + 1.1 m + 4.7 m			55.0 m + 1.1 m + 4.7 m			68.0 m + 1.1 m + 4.7 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	46.0														
3.5	43.6	30.9													
4.0	41.5	29.9													
4.5	39.6	28.9	23.4	33.9											
5.0	37.8	28.1	22.9	42.9											
6.0	34.8	26.5	22.0	42.9											
7.0	32.2	25.1	21.2	42.9	29.2		21.6								
8.0	30.0	24.0	20.6	41.0	28.3	22.6	24.0								
9.0	28.2	22.9	20.0	39.0	27.4	22.1	24.0	24.0							
10.0	26.6	22.1	19.5	37.3	26.6	21.7	24.0	24.0	19.7	13.2					
11.0	25.2	21.3	19.2	35.6	25.8	21.3	24.0	24.0	21.8	15.5					
12.0	23.9	20.6	19.0	34.2	25.2	21.0	24.0	24.0	21.5	15.5	15.5				
14.0	20.7	18.8		31.6	23.9	20.3	24.0	24.0	20.9	15.5	15.5	15.5	10.0		
16.0	18.2			29.4	22.9	19.8	24.0	24.0	20.5	15.5	15.5	15.5	10.0	10.0	
18.0				27.2	22.0	19.4	23.7	23.0	20.1	15.5	15.5	15.5	10.0	10.0	10.0
20.0				23.3	21.2	19.0	21.0	21.6	19.7	15.5	15.5	15.5	10.0	10.0	10.0
22.0				20.0	20.5	18.8	18.6	18.7	19.1	14.9	14.7	14.7	10.0	10.0	10.0
24.0				17.4	17.7	17.9	16.8	16.4	16.3	14.0	13.9	14.3	10.0	10.0	10.0
26.0				15.2	15.5	15.6	14.6	15.1	14.8	13.3	13.6	13.6	10.0	9.8	9.6
28.0				14.2	13.6		13.2	13.2	13.4	12.3	12.7	12.8	9.6	9.4	9.3
30.0				13.0	13.0		11.7	12.0	12.2	10.8	11.1	11.4	9.2	9.1	9.0
32.0				11.7			10.8	10.7	10.8	10.3	10.5	10.5	8.8	8.7	8.9
34.0							9.8	10.0	10.0	9.1	9.4	9.6	8.5	8.4	8.5
36.0							9.0	9.0	9.0	8.6	8.6	8.7	7.9	7.9	7.9
38.0							8.5	8.5		8.0	8.2	8.2	7.1	7.4	7.5
40.0							7.7	7.8		7.2	7.4	7.5	6.3	6.5	6.7
42.0							6.9	7.0		6.5	6.6	6.7	5.6	5.8	5.9
44.0							6.6	6.6		5.8	6.0	6.0	4.9	5.1	5.3
46.0										5.3	5.4		4.4	4.5	4.6
48.0										4.7	4.8		3.8	4.0	4.1
50.0										4.2	4.3		3.3	3.5	3.6
52.0										3.8	3.9		2.9	3.0	3.1
56.0										3.0			2.1	2.2	2.2
60.0													1.4	1.5	



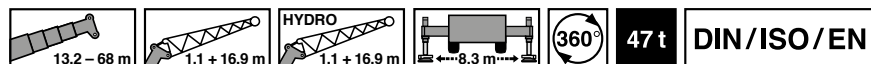
 m	13.2 m + 1.1 m + 10.9 m			30.0 m + 1.1 m + 10.9 m			42.5 m + 1.1 m + 10.9 m			55.0 m + 1.1 m + 10.9 m			68.0 m + 1.1 m + 10.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	19.7														
3.5	19.6														
4.0	19.1														
4.5	18.6														
5.0	18.0														
6.0	17.0	14.1		19.1											
7.0	16.0	13.2		18.5											
8.0	15.1	12.4		17.8											
9.0	14.3	11.6		17.2			16.0								
10.0	13.5	11.0	9.3	16.5	13.1		15.7								
11.0	12.9	10.5	8.9	16.0	12.6		15.3								
12.0	12.3	10.0	8.6	15.4	12.1		14.9			10.0					
14.0	11.0	9.1	8.1	14.4	11.3	9.1	14.3	11.7		10.0					
16.0	9.8	8.4	7.7	13.5	10.6	8.7	13.6	11.2	9.1	10.0	10.0		6.6		
18.0	8.8	7.9	7.4	12.7	10.0	8.4	13.0	10.7	8.8	10.0	10.0		6.6		
20.0	8.0	7.5		12.0	9.5	8.1	12.4	10.2	8.5	10.0	9.7	8.6	6.6	6.6	
22.0	7.4	7.2		11.4	9.0	7.9	11.9	9.8	8.3	10.0	9.5	8.4	6.6	6.6	
24.0				10.7	8.6	7.7	11.5	9.4	8.1	10.0	9.2	8.2	6.6	6.6	6.6
26.0				10.0	8.3	7.5	11.0	9.1	7.9	10.0	9.0	8.1	6.6	6.6	6.6
28.0				9.4	8.0	7.4	10.6	8.8	7.8	10.0	8.8	7.9	6.6	6.6	6.6
30.0				8.9	7.7	7.3	10.3	8.5	7.6	9.8	8.6	7.8	6.6	6.6	6.6
32.0				8.4	7.5	7.2	9.9	8.2	7.5	9.6	8.4	7.7	6.6	6.6	6.6
34.0				8.0	7.3		9.5	8.0	7.4	9.3	8.2	7.6	6.6	6.6	6.6
36.0				7.6	7.2		9.1	7.8	7.3	9.1	8.0	7.5	6.6	6.5	6.5
38.0				7.4			8.7	7.7	7.3	8.9	7.9	7.4	6.6	6.5	6.3
40.0							8.4	7.5	7.2	8.5	7.7	7.3	6.5	6.3	6.1
42.0							8.1	7.4	7.2	8.1	7.6	7.2	6.1	6.0	5.9
44.0							7.8	7.3		7.8	7.4	7.2	5.7	5.7	5.6
46.0							7.6	7.2		7.4	7.3	7.1	5.4	5.4	5.4
48.0							7.4	7.2		6.8	7.1	7.1	5.1	5.1	5.1
50.0							6.8			6.2	6.5	6.7	4.8	4.8	4.9
52.0										5.8	5.9		4.5	4.6	4.7
56.0										5.3	5.3		4.0	4.1	4.2
60.0										4.5	4.7		3.6	3.7	3.8
64.0										4.0			3.2	3.3	
68.0													2.7	2.9	
72.0													2.2	2.3	
76.0													1.7		



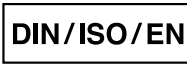
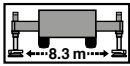
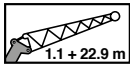
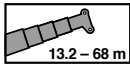
 m	13.2 m + 1.1 m + 10.9 m			30.0 m + 1.1 m + 10.9 m			42.5 m + 1.1 m + 10.9 m			55.0 m + 1.1 m + 10.9 m			68.0 m + 1.1 m + 10.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	46.0														
3.5	43.6	30.9													
4.0	41.5	29.9													
4.5	39.6	28.9	23.4	33.9											
5.0	37.8	28.1	22.9	42.9											
6.0	34.8	26.5	22.0	42.9											
7.0	32.2	25.1	21.2	42.9	29.2		21.6								
8.0	30.0	24.0	20.6	41.0	28.3	22.6	24.0								
9.0	28.2	22.9	20.0	39.0	27.4	22.1	24.0	24.0							
10.0	26.6	22.1	19.5	37.3	26.6	21.7	24.0	24.0	19.7	13.2					
11.0	25.2	21.3	19.2	35.6	25.8	21.3	24.0	24.0	21.8	15.5					
12.0	23.9	20.6	19.0	34.2	25.2	21.0	24.0	24.0	21.5	15.5	15.5				
14.0	20.7	18.8		31.6	23.9	20.3	24.0	24.0	20.9	15.5	15.5	15.5	10.0		
16.0	18.2			29.4	22.9	19.8	24.0	24.0	20.5	15.5	15.5	15.5	10.0	10.0	
18.0				27.2	22.0	19.4	23.7	23.0	20.1	15.5	15.5	15.5	10.0	10.0	10.0
20.0				23.3	21.2	19.0	21.0	21.6	19.7	15.5	15.5	15.5	10.0	10.0	10.0
22.0				20.0	20.5	18.8	18.6	18.7	19.1	14.9	14.7	14.7	10.0	10.0	10.0
24.0				17.4	17.7	17.9	16.8	16.4	16.3	14.0	13.9	14.3	10.0	10.0	10.0
26.0				15.2	15.5	15.6	14.6	15.1	14.8	13.3	13.6	13.6	10.0	9.8	9.6
28.0				14.2	13.6		13.2	13.2	13.4	12.3	12.7	12.8	9.6	9.4	9.3
30.0				13.0	13.0		11.7	12.0	12.2	10.8	11.1	11.4	9.2	9.1	9.0
32.0				11.7			10.8	10.7	10.8	10.3	10.5	10.5	8.8	8.7	8.9
34.0							9.8	10.0	10.0	9.1	9.4	9.6	8.5	8.4	8.5
36.0							9.0	9.0	9.0	8.6	8.6	8.7	7.9	7.9	7.9
38.0							8.5	8.5		8.0	8.2	8.2	7.1	7.4	7.5
40.0							7.7	7.8		7.2	7.4	7.5	6.3	6.5	6.7
42.0							6.9	7.0		6.5	6.6	6.7	5.6	5.8	5.9
44.0							6.6	6.6		5.8	6.0	6.0	4.9	5.1	5.3
46.0										5.3	5.4		4.4	4.5	4.6
48.0										4.7	4.8		3.8	4.0	4.1
50.0										4.2	4.3		3.3	3.5	3.6
52.0										3.8	3.9		2.9	3.0	3.1
56.0										3.0			2.1	2.2	2.2
60.0													1.4	1.5	



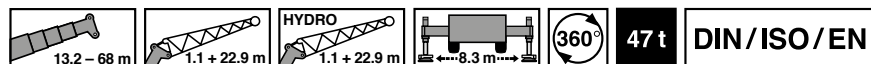
 m	13.2 m + 1.1 m + 16.9 m			30.0 m + 1.1 m + 16.9 m			42.5 m + 1.1 m + 16.9 m			55.0 m + 1.1 m + 16.9 m			68.0 m + 1.1 m + 16.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	17.6														
3.5	17.3														
4.0	17.0														
4.5	16.7														
5.0	16.3														
6.0	15.5			14.8											
7.0	14.8			14.8											
8.0	14.1			14.8											
9.0	13.5	11.3		14.5			11.9								
10.0	12.8	10.6		14.1			11.9								
11.0	12.3	9.9		13.7			11.9								
12.0	11.6	9.3		13.3	11.0		11.9			7.4					
14.0	10.0	8.3	6.9	12.5	10.0		11.7			7.4					
16.0	8.7	7.5	6.4	11.9	9.3		11.3	9.6		7.4					
18.0	7.7	6.8	5.9	11.2	8.7	6.6	10.9	9.2		7.4			5.1		
20.0	6.9	6.2	5.5	10.7	8.1	6.3	10.5	8.8	6.5	7.4	7.4		5.1		
22.0	6.3	5.8	5.2	9.8	7.6	6.0	10.1	8.3	6.3	7.4	7.4		5.1		
24.0	5.7	5.3	4.9	8.9	7.1	5.8	9.8	7.9	6.1	7.4	7.4	6.1	5.1	5.1	
26.0	5.3	5.0		8.3	6.7	5.6	9.4	7.5	5.9	7.4	7.4	5.9	5.1	5.1	
28.0	4.9	4.7		7.8	6.3	5.4	9.1	7.2	5.7	7.4	7.2	5.8	5.1	5.1	5.1
30.0				7.3	6.0	5.2	8.5	6.8	5.5	7.4	7.0	5.7	5.1	5.1	5.1
32.0				6.9	5.7	5.0	8.2	6.5	5.4	7.4	6.9	5.5	5.1	5.1	5.1
34.0				6.5	5.5	4.9	8.0	6.3	5.2	7.4	6.7	5.4	5.1	5.1	5.1
36.0				6.1	5.3	4.8	7.6	6.0	5.1	7.4	6.5	5.3	5.1	5.1	5.1
38.0				5.7	5.1	4.7	7.2	5.8	5.0	7.4	6.3	5.2	5.1	5.1	5.1
40.0				5.4	4.9		6.9	5.6	4.9	7.2	6.1	5.1	5.1	5.0	5.0
42.0				5.1	4.8		6.5	5.4	4.8	7.1	5.9	5.0	5.1	4.8	4.8
44.0				4.9			6.3	5.2	4.7	6.9	5.7	4.9	5.1	4.8	4.7
46.0							6.0	5.1	4.7	6.7	5.6	4.9	4.9	4.7	4.6
48.0							5.7	4.9	4.6	6.5	5.4	4.8	4.6	4.5	4.4
50.0							5.4	4.8		6.2	5.3	4.7	4.4	4.3	4.3
52.0							5.2	4.7		5.9	5.1	4.7	4.1	4.1	4.1
56.0							4.8			4.9	4.9	4.6	3.7	3.7	3.8
60.0										4.5	4.6		3.3	3.4	3.4
64.0										4.0	4.2		2.9	3.0	3.1
68.0										3.4			2.6	2.7	
72.0													2.3	2.4	
76.0													1.8	2.0	
80.0													1.3		



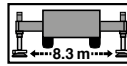
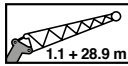
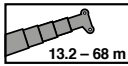
 m	13.2 m + 1.1 m + 16.9 m			30.0 m + 1.1 m + 16.9 m			42.5 m + 1.1 m + 16.9 m			55.0 m + 1.1 m + 16.9 m			68.0 m + 1.1 m + 16.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	17.6														
3.5	17.3														
4.0	17.0														
4.5	16.7														
5.0	16.3														
6.0	15.5			12.6											
7.0	14.8			12.6											
8.0	14.1			12.6											
9.0	13.5	11.1		12.6			11.9								
10.0	12.8	10.4		12.6			11.9								
11.0	12.3	9.7		12.6			11.9								
12.0	11.6	9.1		12.6	10.7		11.9			7.4					
14.0	10.0	8.1	6.8	11.9	9.9		11.7			7.4					
16.0	8.7	7.3	6.2	11.3	9.2		11.3	9.6		7.4					
18.0	7.7	6.7	5.8	10.8	8.6	6.5	10.9	9.1		7.4			5.1		
20.0	6.9	6.1	5.4	10.2	8.0	6.2	10.5	8.7	6.4	7.4	7.0		5.1		
22.0	6.3	5.7	5.1	9.5	7.5	5.9	10.1	8.2	6.2	7.4	6.7		5.1		
24.0	5.7	5.3	4.8	8.7	7.0	5.7	9.8	7.8	6.0	7.4	6.5	5.8	5.1	4.9	
26.0	5.2	4.9		8.1	6.6	5.5	9.4	7.4	5.8	7.3	6.2	5.6	5.1	4.7	
28.0	4.8	4.7		7.5	6.2	5.3	9.1	7.0	5.6	7.0	6.0	5.4	5.0	4.6	4.2
30.0				7.0	5.9	5.1	8.5	6.7	5.4	6.8	5.8	5.3	4.8	4.4	4.1
32.0				6.6	5.6	4.9	8.0	6.4	5.3	6.5	5.6	5.1	4.6	4.2	3.9
34.0				6.2	5.4	4.8	7.6	6.2	5.1	6.3	5.4	5.0	4.6	4.1	3.8
36.0				5.9	5.2	4.7	7.2	5.9	5.0	6.1	5.3	4.9	4.4	4.0	3.7
38.0				5.6	5.0	4.6	6.5	5.7	4.9	5.9	5.1	4.7	4.2	3.8	3.6
40.0				5.3	4.8		6.2	5.5	4.8	5.7	5.0	4.6	4.1	3.7	3.5
42.0				5.0	4.7		6.0	5.3	4.7	5.4	4.9	4.5	4.0	3.6	3.4
44.0				4.8			5.8	5.1	4.7	4.8	4.8	4.4	3.8	3.5	3.3
46.0							5.3	5.0	4.6	4.2	4.6	4.3	3.7	3.4	3.2
48.0							4.8	4.9	4.6	4.0	4.3	4.3	3.6	3.3	3.1
50.0							4.5	4.7		3.9	3.8	4.2	3.4	3.2	3.0
52.0							4.3	4.3		3.8	3.6	3.7	3.0	3.1	3.0
56.0							3.9			3.3	3.4	3.3	2.2	2.7	2.9
60.0										2.7	2.9		1.6	2.0	2.3
64.0										2.1	2.3			1.4	1.6
68.0										1.6					



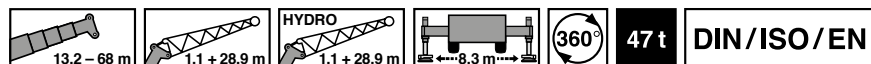
 m	13.2 m + 1.1 m + 22.9 m			30.0 m + 1.1 m + 22.9 m			42.5 m + 1.1 m + 22.9 m			55.0 m + 1.1 m + 22.9 m			68.0 m + 1.1 m + 22.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.5	11.1														
4.0	11.1														
4.5	11.1														
5.0	10.9														
6.0	10.5														
7.0	10.1			8.8											
8.0	9.7			8.8											
9.0	9.3			8.8											
10.0	8.9			8.8			7.4								
11.0	8.6			8.8			7.4								
12.0	8.2	7.6		8.8			7.4								
14.0	7.6	6.9		8.5			7.4								
16.0	7.0	6.2		8.1	6.8		7.4			5.5					
18.0	6.4	5.6		7.7	6.4		7.4			5.5					
20.0	5.7	5.1	4.4	7.3	6.1		7.1	6.0		5.5			4.0		
22.0	5.1	4.7	4.1	6.9	5.8	4.5	6.9	5.8		5.5	5.4		4.0		
24.0	4.7	4.3	3.8	6.6	5.4	4.3	6.6	5.5		5.5	5.2		4.0		
26.0	4.3	4.0	3.6	6.3	5.1	4.1	6.4	5.3	4.2	5.5	5.1		4.0		
28.0	3.9	3.7	3.4	6.0	4.8	3.9	6.2	5.1	4.1	5.5	4.9		4.0	4.0	
30.0	3.7	3.5	3.3	5.8	4.6	3.8	6.0	5.0	4.0	5.5	4.8	4.0	4.0	4.0	
32.0	3.4	3.3		5.5	4.3	3.6	5.8	4.8	3.8	5.4	4.6	3.9	4.0	4.0	
34.0	3.2	3.1		5.1	4.1	3.5	5.6	4.6	3.7	5.3	4.5	3.8	4.0	4.0	3.8
36.0				4.8	3.9	3.4	5.4	4.4	3.6	5.1	4.4	3.7	4.0	4.0	3.7
38.0				4.5	3.7	3.3	5.2	4.2	3.5	5.0	4.3	3.6	4.0	4.0	3.6
40.0				4.2	3.6	3.2	5.1	4.1	3.4	4.9	4.2	3.5	4.0	3.9	3.5
42.0				3.9	3.4	3.1	4.9	3.9	3.4	4.8	4.1	3.5	4.0	3.8	3.4
44.0				3.7	3.3	3.1	4.7	3.8	3.3	4.7	4.0	3.4	4.0	3.7	3.4
46.0				3.5	3.2		4.4	3.7	3.2	4.6	3.9	3.3	4.0	3.7	3.3
48.0				3.3	3.1		4.2	3.5	3.2	4.5	3.8	3.3	4.0	3.6	3.2
50.0				3.1			4.0	3.4	3.1	4.4	3.7	3.2	3.9	3.5	3.2
52.0							3.9	3.3	3.1	4.3	3.6	3.2	3.7	3.5	3.1
56.0							3.5	3.2		4.0	3.4	3.1	3.3	3.3	3.0
60.0							3.2	3.0		3.8	3.3	3.0	2.9	3.0	2.9
64.0										3.5	3.2		2.6	2.7	2.8
68.0										3.3	3.1		2.3	2.4	2.5
72.0										2.9	3.0		2.0	2.2	2.3
76.0										2.6			1.8	1.9	
80.0													1.4	1.6	
84.0														1.2	



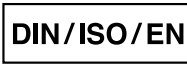
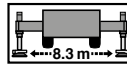
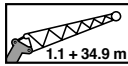
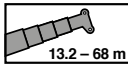
 m	13.2 m + 1.1 m + 22.9 m			30.0 m + 1.1 m + 22.9 m			42.5 m + 1.1 m + 22.9 m			55.0 m + 1.1 m + 22.9 m			68.0 m + 1.1 m + 22.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	17.6														
3.5	17.3														
4.0	17.0														
4.5	16.7														
5.0	16.3														
6.0	15.5			14.8											
7.0	14.8			14.8											
8.0	14.1			14.8											
9.0	13.5	11.3		14.5			11.9								
10.0	12.8	10.6		14.1			11.9								
11.0	12.3	9.9		13.7			11.9								
12.0	11.6	9.3		13.3	11.0		11.9			7.4					
14.0	10.0	8.3	6.9	12.5	10.0		11.7			7.4					
16.0	8.7	7.5	6.4	11.9	9.3		11.3	9.6		7.4					
18.0	7.7	6.8	5.9	11.2	8.7	6.6	10.9	9.2		7.4			5.1		
20.0	6.9	6.2	5.5	10.7	8.1	6.3	10.5	8.8	6.5	7.4	7.4		5.1		
22.0	6.3	5.8	5.2	9.8	7.6	6.0	10.1	8.3	6.3	7.4	7.4		5.1		
24.0	5.7	5.3	4.9	8.9	7.1	5.8	9.8	7.9	6.1	7.4	7.4	6.1	5.1	5.1	
26.0	5.3	5.0		8.3	6.7	5.6	9.4	7.5	5.9	7.4	7.4	5.9	5.1	5.1	
28.0	4.9	4.7		7.8	6.3	5.4	9.1	7.2	5.7	7.4	7.2	5.8	5.1	5.1	5.1
30.0				7.3	6.0	5.2	8.5	6.8	5.5	7.4	7.0	5.7	5.1	5.1	5.1
32.0				6.9	5.7	5.0	8.2	6.5	5.4	7.4	6.9	5.5	5.1	5.1	5.1
34.0				6.5	5.5	4.9	8.0	6.3	5.2	7.4	6.7	5.4	5.1	5.1	5.1
36.0				6.1	5.3	4.8	7.6	6.0	5.1	7.4	6.5	5.3	5.1	5.1	5.1
38.0				5.7	5.1	4.7	7.2	5.8	5.0	7.2	6.3	5.2	5.1	5.1	5.1
40.0				5.4	4.9		6.9	5.6	4.9	6.6	6.1	5.1	5.1	5.0	5.0
42.0				5.1	4.8		6.5	5.4	4.8	6.3	5.9	5.0	5.1	4.8	4.8
44.0				4.9			6.2	5.2	4.7	5.7	5.7	4.9	5.1	4.8	4.7
46.0							5.9	5.1	4.7	5.2	5.5	4.9	4.7	4.7	4.6
48.0							5.5	4.9	4.6	5.0	5.2	4.8	4.2	4.5	4.4
50.0							5.4	4.8		4.8	4.6	4.7	3.7	4.3	4.3
52.0							4.9	4.7		4.3	4.4	4.5	3.2	3.8	4.1
56.0							4.2			3.5	3.9	4.1	2.4	2.9	3.3
60.0										2.9	3.1		1.8	2.2	2.5
64.0										2.3	2.5			1.6	1.8
68.0										1.8					



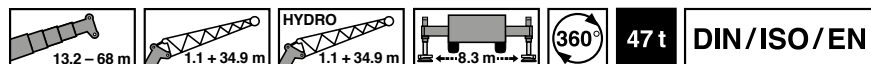
 m	13.2 m + 1.1 m + 28.9 m			30.0 m + 1.1 m + 28.9 m			42.5 m + 1.1 m + 28.9 m			55.0 m + 1.1 m + 28.9 m			68.0 m + 1.1 m + 28.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
5.0	6.5														
6.0	6.5														
7.0	6.5														
8.0	6.5			6.2											
9.0	6.5			6.2											
10.0	6.5			6.2											
11.0	6.4			6.2											
12.0	6.2			6.2			5.3								
14.0	5.8			6.1			5.3								
16.0	5.4	4.9		5.8			5.3								
18.0	5.0	4.5		5.6			5.2			4.1					
20.0	4.7	4.2		5.3	4.5		5.1			4.1					
22.0	4.4	4.0		5.1	4.3		4.9	4.2		4.1			3.1		
24.0	4.1	3.6	3.1	4.9	4.1		4.8	4.0		4.1			3.1		
26.0	3.8	3.3	2.9	4.6	3.9		4.6	3.9		4.1	3.6		3.1		
28.0	3.5	3.1	2.7	4.4	3.7	3.0	4.5	3.7		4.0	3.5		3.1		
30.0	3.2	2.9	2.6	4.2	3.6	2.9	4.3	3.6	3.0	3.9	3.4		3.1		
32.0	2.9	2.7	2.4	4.1	3.4	2.8	4.2	3.5	2.9	3.8	3.3		3.1	2.9	
34.0	2.7	2.5	2.3	3.9	3.2	2.6	4.0	3.4	2.8	3.7	3.2		3.1	2.9	
36.0	2.5	2.3	2.2	3.7	3.1	2.5	3.9	3.3	2.7	3.7	3.1	2.7	3.1	2.8	
38.0	2.3	2.2		3.6	2.9	2.5	3.8	3.2	2.6	3.6	3.1	2.6	3.0	2.8	
40.0	2.1	2.1		3.4	2.8	2.4	3.7	3.1	2.5	3.5	3.0	2.6	3.0	2.7	2.6
42.0				3.2	2.6	2.3	3.5	3.0	2.4	3.4	2.9	2.5	3.0	2.6	2.5
44.0				3.0	2.5	2.2	3.4	2.9	2.4	3.4	2.8	2.4	2.9	2.6	2.4
46.0				2.8	2.4	2.2	3.3	2.7	2.3	3.3	2.8	2.4	2.9	2.6	2.4
48.0				2.6	2.3	2.1	3.2	2.6	2.3	3.2	2.7	2.3	2.8	2.5	2.3
50.0				2.5	2.2	2.1	3.1	2.6	2.2	3.1	2.7	2.3	2.8	2.5	2.3
52.0				2.4	2.1		3.0	2.5	2.2	3.1	2.6	2.2	2.7	2.4	2.2
56.0				2.1			2.7	2.3	2.1	2.9	2.5	2.2	2.7	2.4	2.1
60.0							2.5	2.2	2.0	2.8	2.4	2.1	2.6	2.3	2.1
64.0							2.3	2.1		2.6	2.3	2.1	2.3	2.2	2.0
68.0							2.1			2.5	2.2	2.0	2.0	2.1	1.9
72.0										2.3	2.1		1.8	1.9	1.9
76.0										2.2	2.0		1.5	1.7	1.8
80.0										2.0			1.3	1.5	
84.0														1.3	



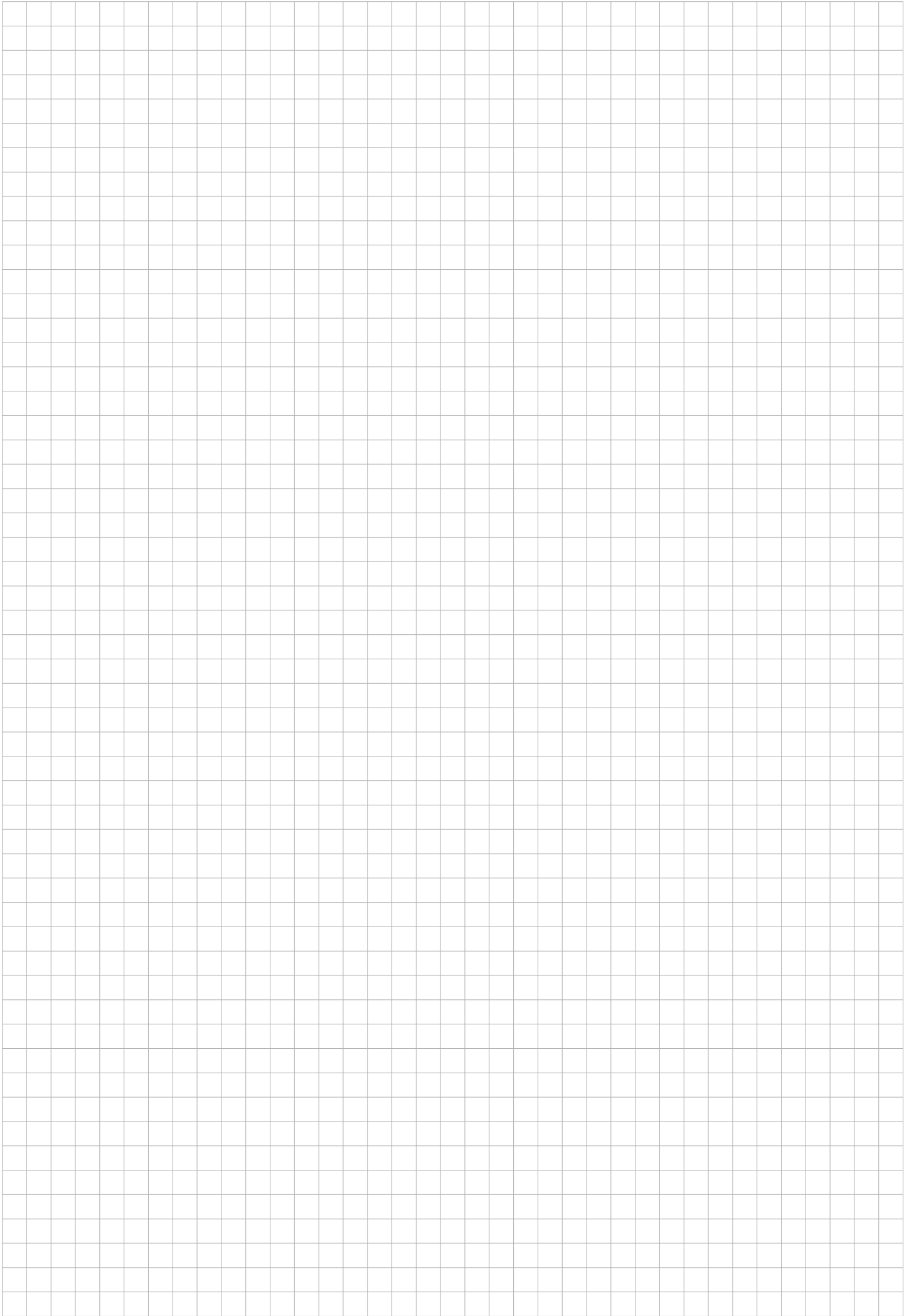
 m	13.2 m + 1.1 m + 28.9 m			30.0 m + 1.1 m + 28.9 m			42.5 m + 1.1 m + 28.9 m			55.0 m + 1.1 m + 28.9 m			68.0 m + 1.1 m + 28.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
5.0	6.5														
6.0	6.5														
7.0	6.5														
8.0	6.5			6.2											
9.0	6.5			6.2											
10.0	6.5			6.2											
11.0	6.4			6.2											
12.0	6.2			6.2			5.3								
14.0	5.8			6.1			5.3								
16.0	5.4	4.9		5.8			5.3								
18.0	5.0	4.5		5.6			5.2								
20.0	4.7	4.2		5.3	4.5		5.1			4.1					
22.0	4.4	4.0		5.1	4.3		4.9	4.2		4.1			3.1		
24.0	4.1	3.6	3.1	4.9	4.1		4.8	4.0		4.1			3.1		
26.0	3.8	3.3	2.9	4.6	3.9		4.6	3.9		4.1	3.6		3.1		
28.0	3.5	3.1	2.7	4.4	3.7	3.0	4.5	3.7		4.0	3.5		3.1		
30.0	3.2	2.9	2.6	4.2	3.6	2.9	4.3	3.6	3.0	3.9	3.4		3.1		
32.0	2.9	2.7	2.4	4.1	3.4	2.8	4.2	3.5	2.9	3.8	3.3		3.1	2.9	
34.0	2.7	2.5	2.3	3.9	3.2	2.6	4.0	3.4	2.8	3.7	3.2		3.1	2.9	
36.0	2.5	2.3	2.2	3.7	3.1	2.5	3.9	3.3	2.7	3.7	3.1	2.7	3.1	2.8	
38.0	2.3	2.2		3.6	2.9	2.5	3.8	3.2	2.6	3.6	3.1	2.6	3.0	2.8	
40.0	2.1	2.1		3.4	2.8	2.4	3.7	3.1	2.5	3.5	3.0	2.6	3.0	2.7	2.6
42.0				3.2	2.6	2.3	3.5	3.0	2.4	3.4	2.9	2.5	3.0	2.6	2.5
44.0				3.0	2.5	2.2	3.4	2.9	2.4	3.4	2.8	2.4	2.9	2.6	2.4
46.0				2.8	2.4	2.2	3.3	2.7	2.3	3.3	2.8	2.4	2.9	2.6	2.4
48.0				2.6	2.3	2.1	3.2	2.6	2.3	3.2	2.7	2.3	2.8	2.5	2.3
50.0				2.5	2.2	2.1	3.1	2.6	2.2	3.1	2.7	2.3	2.8	2.5	2.3
52.0				2.4	2.1		3.0	2.5	2.2	3.1	2.6	2.2	2.7	2.4	2.2
56.0				2.1			2.7	2.3	2.1	2.9	2.5	2.2	2.6	2.4	2.1
60.0							2.5	2.2	2.0	2.7	2.4	2.1	1.9	2.3	2.1
64.0							2.3	2.1		2.4	2.3	2.1		2.0	2.0
68.0							2.1			1.9	2.2	2.0			
72.0										1.4	1.8				
76.0										1.0	1.3				



 m	13.2 m + 1.1 m + 34.9 m			30.0 m + 1.1 m + 34.9 m			42.5 m + 1.1 m + 34.9 m			55.0 m + 1.1 m + 34.9 m			68.0 m + 1.1 m + 34.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	4.7														
7.0	4.7														
8.0	4.7														
9.0	4.7														
10.0	4.7			4.5											
11.0	4.7			4.5											
12.0	4.5			4.5											
14.0	4.3			4.4			3.9								
16.0	4.0			4.2			3.8								
18.0	3.8			4.0			3.7								
20.0	3.6	3.3		3.8			3.6			3.1					
22.0	3.4	3.1		3.7	3.2		3.5			3.0					
24.0	3.2	2.9		3.5	3.0		3.4			3.0			2.4		
26.0	3.0	2.7		3.4	2.9		3.3	2.8		2.9			2.3		
28.0	2.8	2.6		3.2	2.7		3.2	2.7		2.8			2.3		
30.0	2.7	2.4	2.1	3.1	2.6		3.1	2.6		2.7	2.4		2.2		
32.0	2.5	2.2	2.0	3.0	2.5	2.1	3.0	2.5		2.7	2.3		2.2		
34.0	2.3	2.1	1.8	2.9	2.4	2.0	2.9	2.4		2.6	2.2		2.2		
36.0	2.1	1.9	1.7	2.7	2.3	1.9	2.8	2.3	2.0	2.6	2.2		2.1		
38.0	1.9	1.8	1.6	2.6	2.3	1.8	2.7	2.3	1.9	2.5	2.1		2.1		
40.0	1.8	1.6	1.5	2.5	2.2	1.8	2.6	2.2	1.8	2.4	2.1	1.9	2.1		
42.0	1.6	1.5	1.5	2.4	2.0	1.7	2.5	2.1	1.8	2.4	2.0	1.8	2.0		
44.0	1.5	1.4		2.4	1.9	1.6	2.5	2.1	1.7	2.3	2.0	1.7	2.0		
46.0	1.4	1.4		2.2	1.8	1.6	2.4	2.0	1.7	2.3	1.9	1.7	1.9		
48.0				2.1	1.7	1.5	2.3	2.0	1.6	2.2	1.9	1.7	1.9		
50.0				2.0	1.7	1.5	2.2	1.9	1.6	2.2	1.8	1.6	1.9		
52.0				1.8	1.6	1.4	2.2	1.8	1.5	2.1	1.8	1.6	1.8		
56.0				1.6	1.5	1.4	2.1	1.7	1.4	2.0	1.7	1.5	1.8		
60.0				1.4	1.4		1.9	1.6	1.4	1.9	1.7	1.4	1.7		
64.0							1.7	1.5	1.3	1.8	1.6	1.4	1.7		
68.0							1.5	1.4		1.8	1.5	1.3	1.6		
72.0							1.4	1.3		1.7	1.4	1.3	1.5		
76.0										1.6	1.4		1.3		
80.0										1.5	1.3		1.1		
84.0										1.4	1.3				

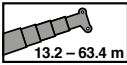


 m	13.2 m + 1.1 m + 34.9 m			30.0 m + 1.1 m + 34.9 m			42.5 m + 1.1 m + 34.9 m			55.0 m + 1.1 m + 34.9 m			68.0 m + 1.1 m + 34.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	4.7														
7.0	4.7														
8.0	4.7														
9.0	4.7														
10.0	4.7			4.5											
11.0	4.7			4.5											
12.0	4.5			4.5											
14.0	4.3			4.4			3.9								
16.0	4.0			4.2			3.8								
18.0	3.8			4.0			3.7								
20.0	3.6	3.3		3.8			3.6			3.1					
22.0	3.4	3.1		3.7	3.2		3.5			3.0					
24.0	3.2	2.9		3.5	3.0		3.4			3.0			2.4		
26.0	3.0	2.7		3.4	2.9		3.3	2.8		2.9			2.3		
28.0	2.8	2.6		3.2	2.7		3.2	2.7		2.8			2.3		
30.0	2.7	2.4	2.1	3.1	2.6		3.1	2.6		2.7	2.4		2.2		
32.0	2.5	2.2	2.0	3.0	2.5	2.1	3.0	2.5		2.7	2.3		2.2		
34.0	2.3	2.1	1.8	2.9	2.4	2.0	2.9	2.4		2.6	2.2		2.2		
36.0	2.1	1.9	1.7	2.7	2.3	1.9	2.8	2.3	2.0	2.6	2.2		2.1		
38.0	1.9	1.8	1.6	2.6	2.3	1.8	2.7	2.3	1.9	2.5	2.1		2.1		
40.0	1.8	1.6	1.5	2.5	2.2	1.8	2.6	2.2	1.8	2.4	2.1	1.9	2.1		
42.0	1.6	1.5	1.5	2.4	2.0	1.7	2.5	2.1	1.8	2.4	2.0	1.8	2.0		
44.0	1.5	1.4		2.4	1.9	1.6	2.5	2.1	1.7	2.3	2.0	1.7	2.0		
46.0	1.4	1.4		2.2	1.8	1.6	2.4	2.0	1.7	2.3	1.9	1.7	1.9		
48.0				2.1	1.7	1.5	2.3	2.0	1.6	2.2	1.9	1.7	1.9		
50.0				2.0	1.7	1.5	2.2	1.9	1.6	2.2	1.8	1.6	1.9		
52.0				1.8	1.6	1.4	2.2	1.8	1.5	2.1	1.8	1.6	1.8		
56.0				1.6	1.5	1.4	2.1	1.7	1.4	2.0	1.7	1.5	1.8		
60.0				1.4	1.4		1.9	1.6	1.4	1.9	1.7	1.4			
64.0							1.7	1.5	1.3	1.8	1.6	1.4			
68.0							1.5	1.4		1.7	1.5	1.3			
72.0							1.4	1.3		1.4	1.4	1.3			
76.0										1.0	1.4				

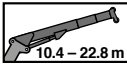


Operation · Einsatz · Utilisation
Uso · Эксплуатация

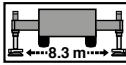
Working range · Arbeitsbereich · Rayon de travail
Zona de trabajo · Area di lavoro · Рабочая зона



13.2 – 63.4 m



10.4 – 22.8 m



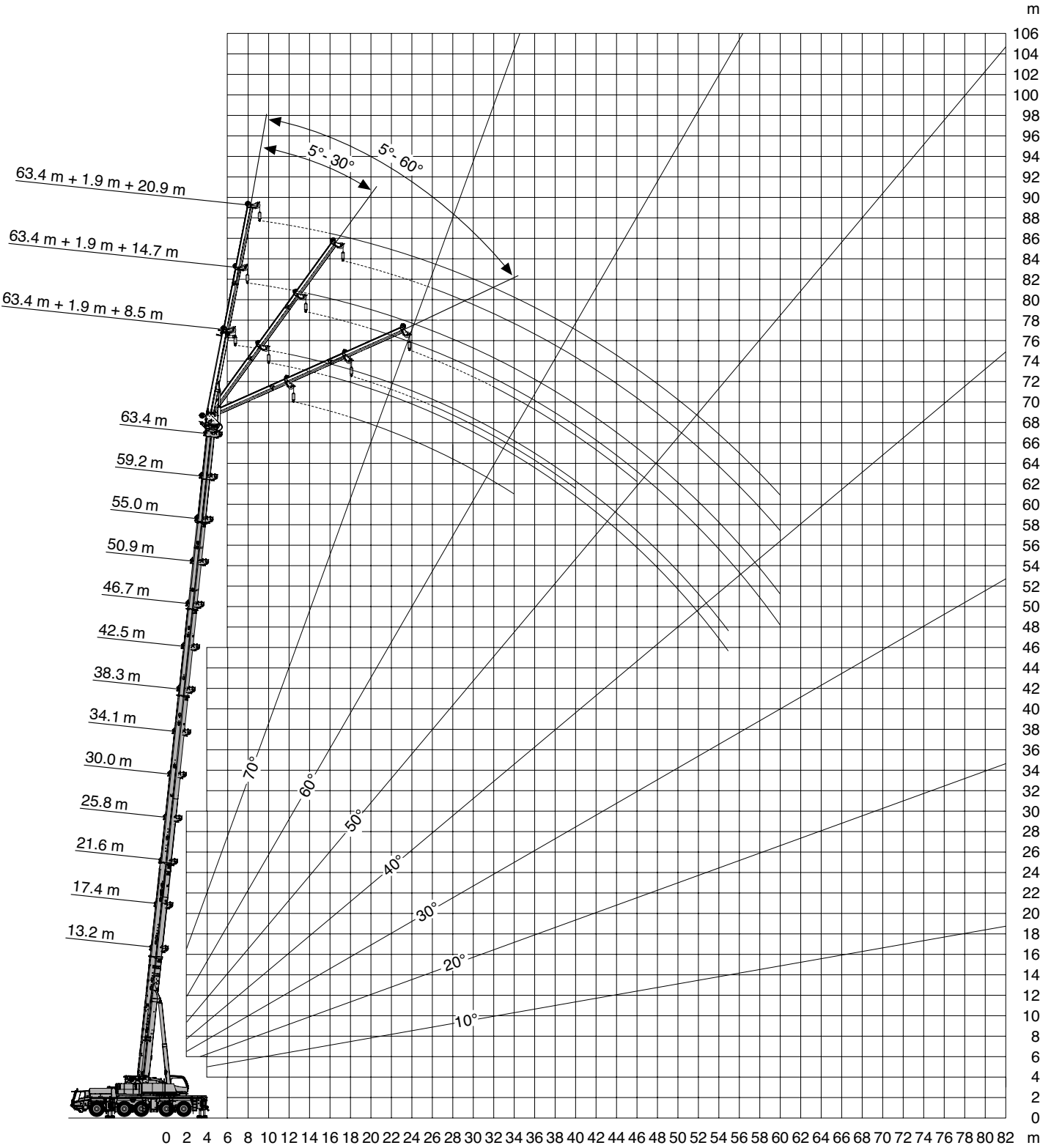
8.3 m

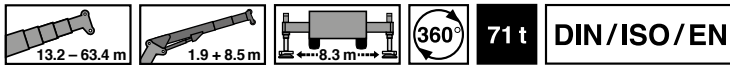


360°

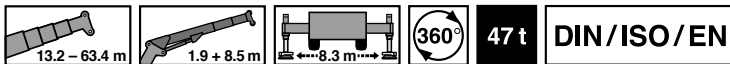
71 t

DIN/ISO/EN

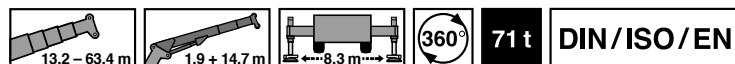




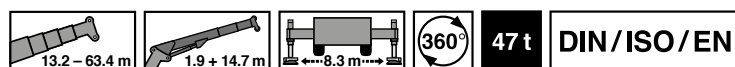
 m	13.2 m + 1.9 m + 8.5 m			30.0 m + 1.9 m + 8.5 m			42.5 m + 1.9 m + 8.5 m			55.0 m + 1.9 m + 8.5 m			63.4 m + 1.9 m + 8.5 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
3.5	26.4														
4.0	24.9														
4.5	23.5														
5.0	22.3			30.0											
6.0	20.1			28.1											
7.0	18.4	15.2		26.1			21.3								
8.0	16.9	14.5		24.4			21.3								
9.0	15.6	13.9	12.3	22.8	15.9		21.3			10.2					
10.0	14.5	13.3	12.1	21.5	15.4		21.3			11.5					
11.0	13.5	12.8	12.0	20.3	15.0	12.4	21.3	15.9		11.5					
12.0	12.7	12.4	12.0	19.2	14.6	12.3	21.0	15.6		11.5			7.0		
14.0	11.3	11.6		17.3	13.9	12.1	19.5	14.9	12.3	11.5	11.4		7.0		
16.0	10.1	11.1		15.8	13.2	12.0	18.1	14.3	12.1	11.2	10.6	10.4	6.8	6.3	
18.0	9.2	10.9		14.5	12.7	11.9	16.7	13.8	12.0	10.5	9.9	9.7	6.3	5.9	5.6
20.0	8.6			13.4	12.2	11.9	15.4	13.3	11.8	9.8	9.3	9.1	6.0	5.5	5.3
22.0				12.4	11.8		14.3	12.9	11.7	9.2	8.7	8.6	5.6	5.1	5.0
24.0				11.6	11.5		13.2	12.5	11.7	8.5	8.2	8.1	5.3	4.8	4.7
26.0				10.9	11.2		12.3	12.1	11.7	7.9	7.7	7.6	4.9	4.6	4.4
28.0				10.3	11.0		11.5	11.3		7.3	7.2	7.2	4.6	4.3	4.2
30.0				9.7	10.8		10.7	10.6		6.8	6.7	6.8	4.3	4.1	4.0
32.0				9.2	10.5		10.0	9.9		6.3	6.3		4.0	3.9	3.8
34.0				8.8			8.6	9.1		5.9	5.9		3.8	3.6	3.6
36.0				8.4			7.3	7.8		5.5	5.5		3.6	3.4	
38.0							6.2	6.6		5.1	5.1		3.3	3.2	
40.0							5.2	5.5		4.8	4.8		3.1	3.0	
42.0							4.4	4.6		4.1	4.5		3.0	2.8	
44.0							3.8	3.9		3.8	3.8		2.8	2.7	
46.0							3.4			3.5	3.5		2.4	2.5	
48.0							2.6			3.0	3.2		2.3	2.2	
50.0							2.3			2.4	2.6		2.1	2.1	
55.0										1.4			1.6	1.7	



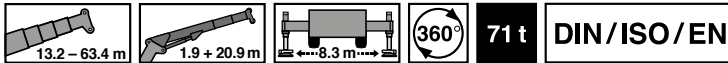
 m	13.2 m + 1.9 m + 8.5 m			30.0 m + 1.9 m + 8.5 m			42.5 m + 1.9 m + 8.5 m			55.0 m + 1.9 m + 8.5 m			63.4 m + 1.9 m + 8.5 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
3.5	26.4														
4.0	24.9														
4.5	23.5														
5.0	22.3			30.0											
6.0	20.1			28.1											
7.0	18.4	15.2		26.1			21.3								
8.0	16.9	14.5		24.4			21.3								
9.0	15.6	13.9	12.3	22.8	15.9		21.3			10.2					
10.0	14.5	13.3	12.1	21.5	15.4		21.3			11.5					
11.0	13.5	12.8	12.0	20.3	15.0	12.4	21.3	15.9		11.5					
12.0	12.7	12.4	12.0	19.2	14.6	12.3	21.0	15.6		11.5			7.0		
14.0	11.3	11.6		17.3	13.9	12.1	19.5	14.9	12.3	11.5	11.4		7.0		
16.0	10.1	11.1		15.8	13.2	12.0	18.1	14.3	12.1	11.2	10.6	10.4	6.8	6.3	
18.0	9.2	10.9		14.5	12.7	11.9	16.7	13.8	12.0	10.5	9.9	9.7	6.3	5.9	5.6
20.0	8.6			13.4	12.2	11.9	15.4	13.3	11.8	9.8	9.3	9.1	6.0	5.5	5.3
22.0				12.4	11.8		14.3	12.9	11.7	9.2	8.7	8.6	5.6	5.1	5.0
24.0				11.5	11.5		11.8	12.5	11.7	8.5	8.2	8.1	5.3	4.8	4.7
26.0				10.8	11.2		9.7	10.7	11.3	7.9	7.7	7.6	4.9	4.6	4.4
28.0				10.1	10.1		8.8	8.8		7.3	7.2	7.2	4.6	4.3	4.2
30.0				8.7	9.1		8.0	8.0		6.8	6.7	6.8	4.3	4.1	4.0
32.0				7.4	7.7		6.8	7.3		6.0	6.3		4.0	3.9	3.8
34.0				6.3			5.7	6.1		5.5	5.5		3.8	3.6	3.6
36.0				5.4			4.7	5.1		4.8	4.9		3.6	3.4	
38.0							4.2	4.3		3.9	4.4		3.3	3.2	
40.0							3.8	3.9		3.5	3.6		3.0	3.0	
42.0							3.4	3.5		3.1	3.2			2.8	
44.0							3.1	1.9		2.5	2.8				
46.0							2.5			2.0	2.4				
48.0							2.2			1.5	1.8				
50.0							2.1				1.3				



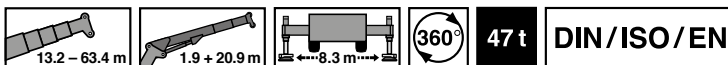
 m	13.2 m + 1.9 m + 14.7 m			30.0 m + 1.9 m + 14.7 m			42.5 m + 1.9 m + 14.7 m			55.0 m + 1.9 m + 14.7 m			63.4 m + 1.9 m + 14.7 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
5.0	13.9														
6.0	13.9														
7.0	13.9			13.9											
8.0	12.7			13.9											
9.0	11.7			13.9			13.9								
10.0	10.7			13.9			13.9								
11.0	9.9	8.7		13.9			13.9			6.9					
12.0	9.2	8.3		13.4	9.3		13.8			6.9					
14.0	8.1	7.6		12.0	8.8		13.1			6.9			5.4		
16.0	7.1	7.0	6.4	10.8	8.3		12.4	8.8		6.9			5.4		
18.0	6.4	6.5	6.3	9.8	7.8	6.5	11.9	8.4		6.9	6.9		5.4		
20.0	5.8	6.2		8.9	7.5	6.4	10.9	8.0	6.5	6.9	6.9		5.2	4.6	
22.0	5.2	5.9		8.2	7.1	6.3	10.1	7.7	6.4	6.9	6.9		4.8	4.3	
24.0	4.8	5.7		7.6	6.8	6.3	9.3	7.4	6.4	6.9	6.9	6.4	4.5	4.1	
26.0	4.5			7.0	6.6	6.3	8.7	7.2	6.3	6.9	6.7	6.3	4.3	3.9	3.7
28.0				6.5	6.3		8.1	6.9	6.3	6.7	6.3	6.2	4.0	3.6	3.5
30.0				6.1	6.1		7.6	6.7	6.2	6.3	6.0	5.9	3.8	3.5	3.3
32.0				5.7	6.0		7.2	6.5	6.2	6.0	5.7	5.6	3.6	3.3	3.2
34.0				5.4	5.8		6.8	6.3		5.6	5.4	5.4	3.4	3.1	3.0
36.0				5.1	5.7		6.4	6.2		5.2	5.1	5.1	3.2	2.9	2.8
38.0				4.8	5.7		6.1	6.0		4.9	4.9		3.0	2.8	2.7
40.0				4.6			5.8	5.9		4.6	4.6		2.8	2.6	2.6
42.0				4.4			5.5	5.7		4.3	4.3		2.7	2.5	
44.0							4.9	5.5		4.0	4.0		2.5	2.4	
46.0							4.2	4.6		3.5	3.8		2.4	2.3	
48.0							3.5	3.9		3.3	3.6		2.2	2.1	
50.0							3.1	3.2		3.0	3.1		2.1	2.0	
55.0							2.0			2.1	2.5		1.6	1.6	
60.0										1.2	1.3		1.4	1.3	



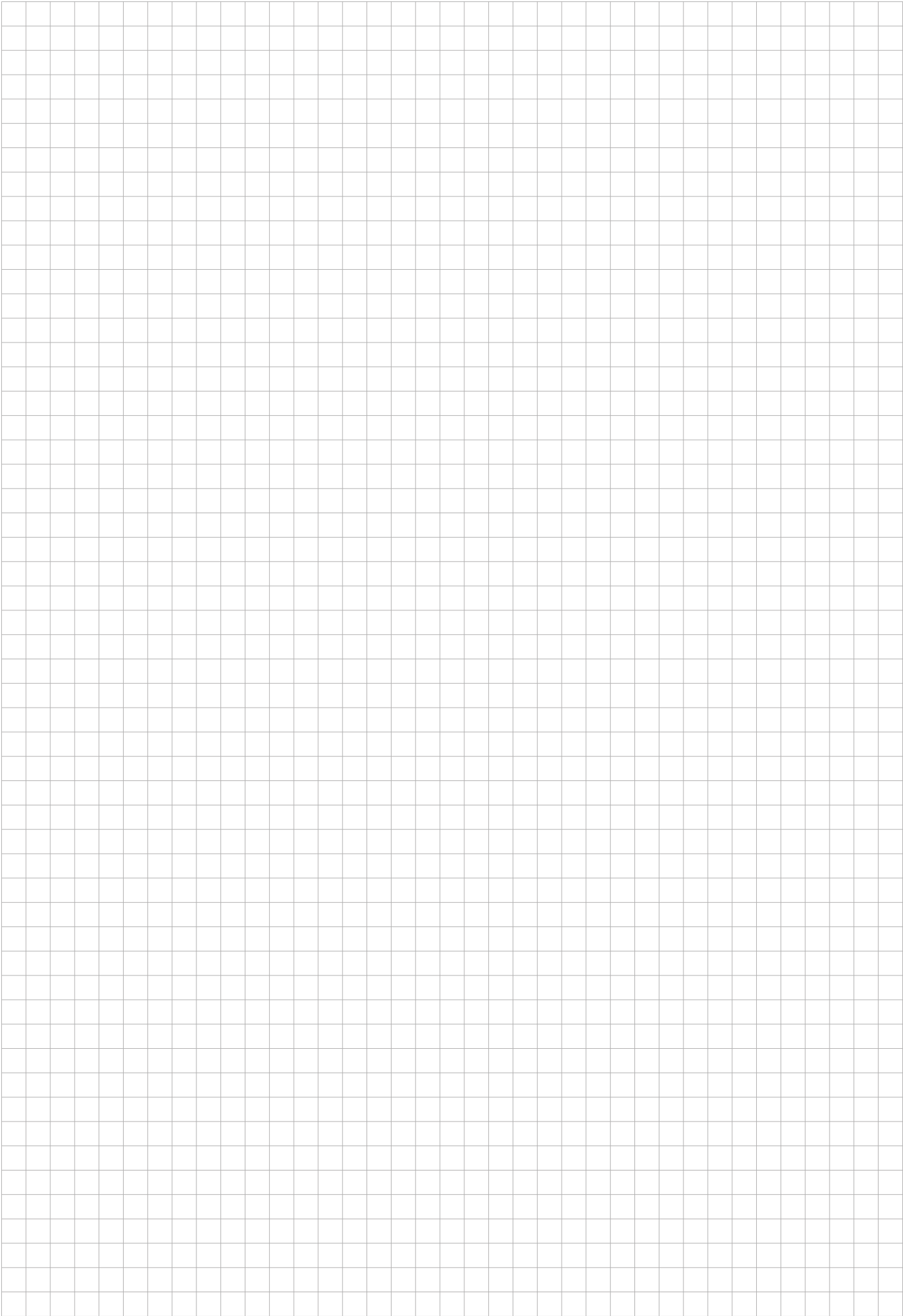
 m	13.2 m + 1.9 m + 14.7 m			30.0 m + 1.9 m + 14.7 m			42.5 m + 1.9 m + 14.7 m			55.0 m + 1.9 m + 14.7 m			63.4 m + 1.9 m + 14.7 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
5.0	13.9														
6.0	13.9														
7.0	13.9			13.9											
8.0	12.7			13.9											
9.0	11.7			13.9			13.9								
10.0	10.7			13.9			13.9								
11.0	9.9	8.7		13.9			13.9			6.9					
12.0	9.2	8.3		13.4	9.3		13.8			6.9					
14.0	8.1	7.6		12.0	8.8		13.1			6.9			5.4		
16.0	7.1	7.0	6.4	10.8	8.3		12.4	8.8		6.9			5.4		
18.0	6.4	6.5	6.3	9.8	7.8	6.5	11.9	8.4		6.9	6.9		5.4		
20.0	5.8	6.2		8.9	7.5	6.4	10.9	8.0	6.5	6.9	6.9		5.2	4.6	
22.0	5.2	5.9		8.2	7.1	6.3	10.1	7.7	6.4	6.9	6.9		4.8	4.3	
24.0	4.8	5.7		7.6	6.8	6.3	9.3	7.4	6.4	6.9	6.9	6.4	4.5	4.1	
26.0	4.5			7.0	6.6	6.3	8.7	7.2	6.3	6.9	6.7	6.3	4.3	3.9	3.7
28.0				6.5	6.3		8.1	6.9	6.3	6.7	6.3	6.2	4.0	3.6	3.5
30.0				6.1	6.1		7.6	6.7	6.2	6.3	6.0	5.9	3.8	3.5	3.3
32.0				5.7	6.0		7.2	6.5	6.2	6.0	5.7	5.6	3.6	3.3	3.2
34.0				5.4	5.8		6.7	6.3		5.6	5.4	5.4	3.4	3.1	3.0
36.0				5.1	5.7		5.9	6.2		5.2	5.1	5.1	3.2	2.9	2.8
38.0				4.8	5.7		5.0	5.7		4.3	4.9		3.0	2.8	2.7
40.0				4.6			4.2	4.9		4.0	4.4		2.8	2.6	2.6
42.0				4.4			3.7	4.1		3.5	3.6		2.7	2.5	
44.0							3.3	3.4		2.9	3.5		2.5	2.4	
46.0							3.0	3.1		2.7	2.9			2.3	
48.0							2.7	2.8		2.4	2.4				
50.0							2.4	1.5		1.9	2.2				
55.0							1.6								



 m	13.2 m + 1.9 m + 20.9 m			30.0 m + 1.9 m + 20.9 m			42.5 m + 1.9 m + 20.9 m			55.0 m + 1.9 m + 20.9 m			63.4 m + 1.9 m + 20.9 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
7.0	5.6														
8.0	5.6			5.6											
9.0	5.6			5.6											
10.0	5.6			5.6			5.6								
11.0	5.6			5.6			5.6								
12.0	5.6			5.6			5.6								
14.0	5.6			5.6			5.6			5.6					
16.0	5.6	5.6		5.6			5.6			5.6			4.2		
18.0	5.3	5.2		5.6	5.6		5.6			5.6			4.2		
20.0	4.8	4.8		5.6	5.6		5.6	5.6		5.6			4.2		
22.0	4.3	4.5	3.8	5.6	5.3		5.6	5.5		5.6			4.2		
24.0	3.9	4.2	3.7	5.6	5.0	4.0	5.6	5.3		5.6	5.0		4.0		
26.0	3.5	3.9		5.4	4.8	3.9	5.6	5.1	3.9	5.6	4.8		3.8	3.3	
28.0	3.2	3.7		5.0	4.6	3.9	5.6	4.9	3.9	5.6	4.7		3.6	3.1	
30.0	3.0	3.6		4.7	4.4	3.8	5.6	4.8	3.8	5.5	4.6	3.9	3.3	3.0	
32.0	2.7			4.3	4.2	3.8	5.4	4.6	3.8	5.3	4.4	3.8	3.2	2.8	2.7
34.0				4.1	4.1		5.1	4.5	3.7	5.2	4.3	3.8	3.0	2.7	2.6
36.0				3.8	3.9		4.8	4.3	3.7	4.9	4.2	3.7	2.8	2.6	2.4
38.0				3.6	3.8		4.5	4.2	3.7	4.7	4.1	3.7	2.7	2.4	2.3
40.0				3.4	3.7		4.3	4.1		4.4	4.0	3.7	2.5	2.3	2.2
42.0				3.2	3.6		4.0	4.0		4.2	3.9	3.7	2.4	2.2	2.1
44.0				3.0	3.6		3.8	3.9		3.9	3.8		2.3	2.0	2.0
46.0				2.8	3.6		3.6	3.8		3.7	3.7		2.2	1.9	1.9
48.0				2.7			3.5	3.7		3.5	3.5		2.0	1.8	
50.0				2.6			3.3	3.6		3.3	3.3		1.9	1.8	
55.0							2.7	3.1		2.6	2.9		1.6	1.6	
60.0							2.0			1.9	2.3		1.3	1.3	



 m	13.2 m + 1.9 m + 20.9 m			30.0 m + 1.9 m + 20.9 m			42.5 m + 1.9 m + 20.9 m			55.0 m + 1.9 m + 20.9 m			63.4 m + 1.9 m + 20.9 m		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
7.0	5.6														
8.0	5.6			5.6											
9.0	5.6			5.6											
10.0	5.6			5.6			5.6								
11.0	5.6			5.6			5.6								
12.0	5.6			5.6			5.6								
14.0	5.6			5.6			5.6			5.6					
16.0	5.6	5.6		5.6			5.6			5.6			4.2		
18.0	5.3	5.2		5.6	5.6		5.6			5.6			4.2		
20.0	4.8	4.8		5.6	5.6		5.6	5.6		5.6			4.2		
22.0	4.3	4.5	3.8	5.6	5.3		5.6	5.5		5.6			4.2		
24.0	3.9	4.2	3.7	5.6	5.0	4.0	5.6	5.3		5.6	5.0		4.0		
26.0	3.5	3.9		5.4	4.8	3.9	5.6	5.1	3.9	5.6	4.8		3.8	3.3	
28.0	3.2	3.7		5.0	4.6	3.9	5.6	4.9	3.9	5.6	4.7		3.6	3.1	
30.0	3.0	3.6		4.7	4.4	3.8	5.6	4.8	3.8	5.5	4.6	3.9	3.3	3.0	
32.0	2.7			4.3	4.2	3.8	5.4	4.6	3.8	5.3	4.4	3.8	3.2	2.8	2.7
34.0				4.1	4.1		5.1	4.5	3.7	5.2	4.3	3.8	3.0	2.7	2.6
36.0				3.8	3.9		4.8	4.3	3.7	4.9	4.2	3.7	2.8	2.6	2.4
38.0				3.6	3.8		4.5	4.2	3.7	4.7	4.1	3.7	2.7	2.4	2.3
40.0				3.4	3.7		4.3	4.1		4.3	4.0	3.7	2.5	2.3	2.2
42.0				3.2	3.6		4.0	4.0		3.6	3.9	3.7	2.4	2.2	2.1
44.0				3.0	3.6		3.8	3.9		3.2	3.8		2.3	2.0	2.0
46.0				2.8	2.7		3.3	3.8		3.1	3.5		2.2	1.9	1.9
48.0				2.7			2.9	3.5		2.6	2.8			1.8	
50.0				2.6			2.7	2.9		2.2	2.6			1.8	
55.0							2.1	2.2		1.6	1.7				
60.0							1.4								

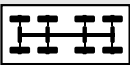
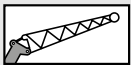


UK CONFIGURATION



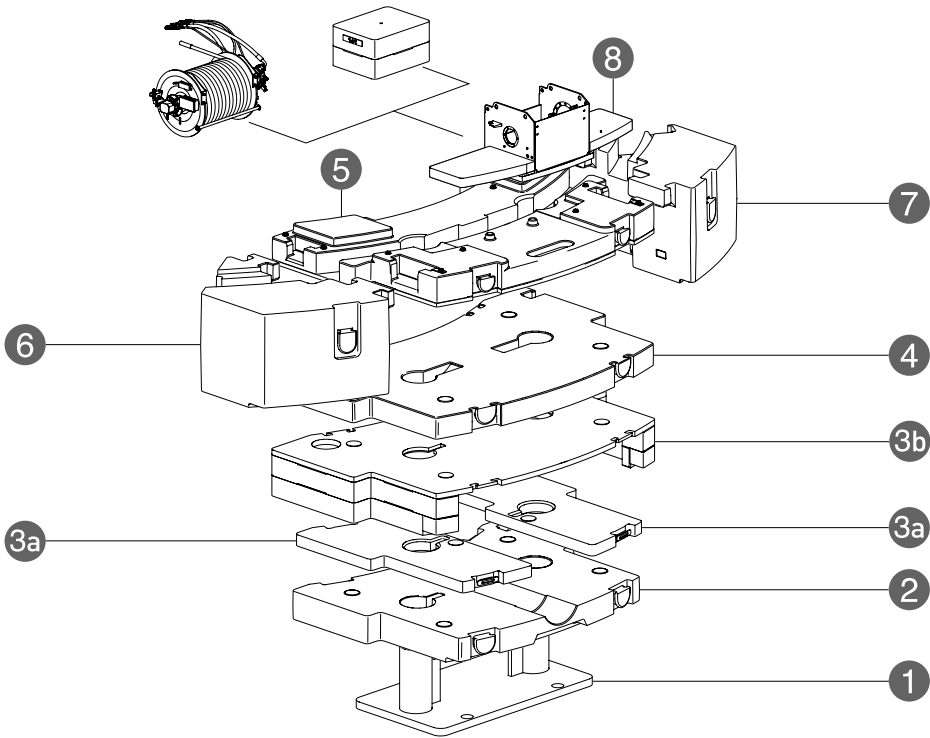
UK configuration

Axle loads

	TOTAL			TYPE		
< 16.5 t	< 81 t ***	10 x 8	445/95 R 25	80 / 10	1.1 m + 10.9 m	18.3 t
max **	< 135 t ***	10 x 8	445/95 R 25	32 / 10	1.1 m + 34.9 m	71 t

* Axle loads vary depending on equipment mounted. Individual calculation available on demand.
 ** Construction site
 *** Incl. second winch or balancing weight

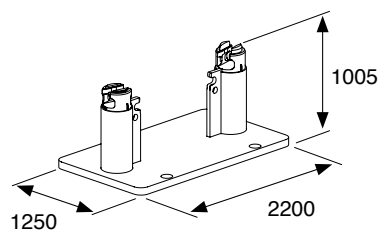
Counterweight



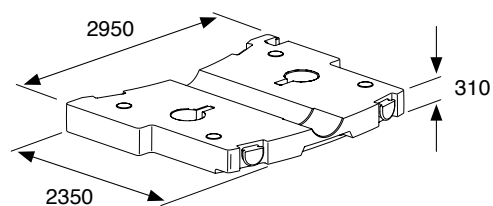
		18.3 t	23.5 t	35 t	47 t	71 t
1	2.0 t	1	1	1	1	1
2	10.0 t	1	1	1	1	1
3a	1.7 t	2	2	2	2	2
3b	5.2 t	-	1	1	1	1
4	11.5 t	-	-	1	1	1
5	12.0 t	-	-	-	1	1
6	12.0 t	-	-	-	-	1
7	12.0 t	-	-	-	-	1
8	2.9 t	1	1	1	1	1

UK configuration

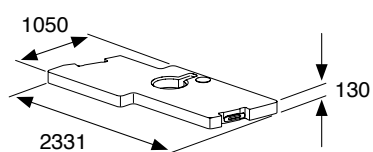
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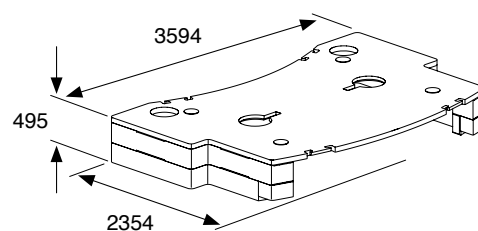
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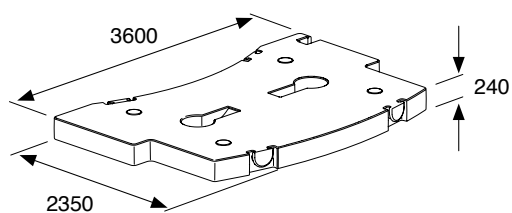
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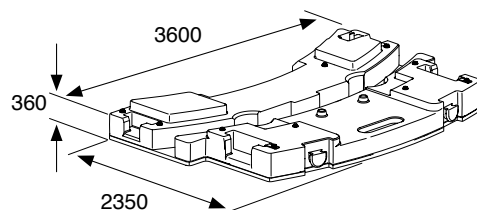
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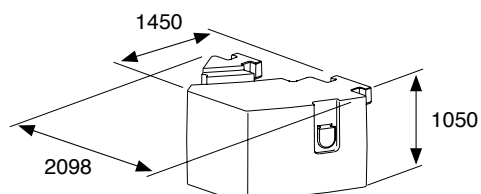
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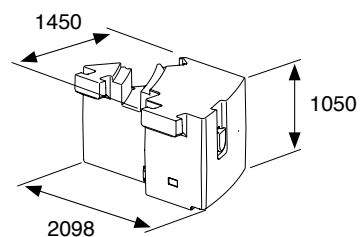
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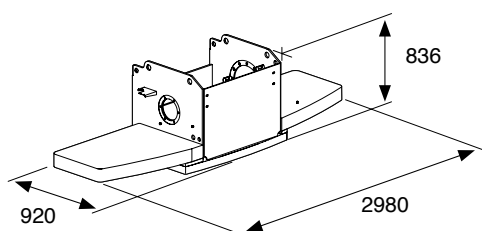
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7



8

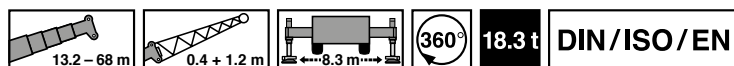


UK configuration

Lifting capacities



 m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	177.9**	163.5**	140.0**	140.0**	114.4	90.5	70.0								
3.5	155.3**	146.6**	140.0**	140.0**	114.4	90.5	70.0	54.5							
4.0	136.2**	132.3	132.5	130.9	111.8	90.5	70.0	54.5							
4.5	121.0	120.1	120.3	118.7	105.4	90.5	70.0	54.5	43.5						
5.0	108.1	108.1	108.2	108.0	98.7	88.4	70.0	54.5	43.5	25.3					
6.0	88.6	88.6	89.6	85.0	77.8	70.7	64.6	54.5	43.5	34.5					
7.0	74.7	74.7	72.1	67.2	64.5	59.9	55.2	50.8	43.5	34.5	28.5				
8.0	60.9	60.9	59.5	56.8	53.5	49.9	48.7	43.5	40.5	34.5	28.5	23.0			
9.0	48.2	48.2	49.9	47.9	45.4	44.6	41.9	38.9	36.2	34.4	28.5	23.0	18.8		
10.0	39.4	39.4	41.5	41.2	40.8	38.8	36.5	34.4	31.6	30.1	28.5	23.0	18.8		
11.0			34.9	36.8	35.8	34.1	32.5	30.3	29.8	27.1	25.8	23.0	18.8	15.0	
12.0			30.4	31.7	31.8	30.4	28.9	28.5	26.6	25.3	22.9	22.5	18.8	15.0	13.8
14.0			23.2	24.4	24.7	24.5	24.6	23.6	22.8	21.7	20.5	19.2	18.0	15.0	13.8
16.0				19.4	19.7	20.6	20.4	19.5	19.4	19.0	18.1	16.9	15.4	14.9	13.8
18.0				15.9	16.8	17.0	16.7	17.2	16.9	16.1	15.3	14.4	13.5	12.5	12.1
20.0					14.0	14.1	14.5	14.4	14.4	13.8	13.1	12.3	11.4	10.5	10.1
22.0					11.8	12.0	12.3	12.1	12.1	11.8	11.3	10.5	9.7	8.8	8.6
24.0						10.3	10.5	10.4	10.3	10.0	9.8	9.1	8.3	7.5	7.2
26.0						8.8	9.1	8.9	8.9	8.5	8.3	7.9	7.1	6.3	6.1
28.0							7.9	7.7	7.7	7.3	7.1	6.7	6.1	5.3	5.1
30.0							6.9	6.7	6.6	6.3	6.1	5.7	5.2	4.5	4.3
32.0								5.9	5.8	5.5	5.2	4.8	4.3	3.7	3.5
34.0								5.1	5.0	4.7	4.5	4.0	3.6	3.0	2.9
36.0									4.4	4.1	3.8	3.4	2.9	2.4	2.3
38.0									3.8	3.5	3.2	2.8	2.4		
40.0										3.0	2.7	2.3	1.9		
42.0										2.6	2.3	1.9	1.4		
44.0										2.2	1.9	1.4			
46.0											1.5	1.1			
48.0											1.2	0.8			
50.0												0.5			



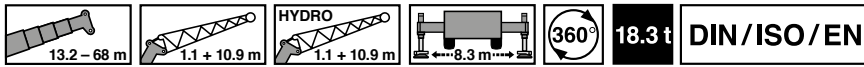
 m	13.2 m + 0.4 m + 1.2 m	30.0 m + 0.4 m + 1.2 m	42.5 m + 0.4 m + 1.2 m	55.0 m + 0.4 m + 1.2 m	68.0 m + 0.4 m + 1.2 m
	60°	60°	60°	60°	60°
3.0	19.7				
3.5	19.7				
4.0	19.7				
4.5	19.7	19.7			
5.0	19.7	19.7			
6.0	19.7	19.7			
7.0	19.7	19.7	19.7		
8.0	19.7	19.7	19.7		
9.0	19.7	19.7	19.7		
10.0	19.7	19.7	19.7	17.0	
11.0	19.7	19.7	19.7	17.0	
12.0	19.7	19.7	19.7	17.0	
14.0		19.7	19.7	17.0	10.1
16.0		19.7	18.8	14.8	10.1
18.0		16.6	16.0	13.2	10.1
20.0		13.7	14.5	12.2	10.1
22.0		11.8	12.3	10.5	8.5
24.0		10.5	10.5	9.0	7.2
26.0		9.0	9.0	7.8	6.1
28.0		7.8	7.7	6.7	5.1
30.0			6.7	5.7	4.2
32.0			5.8	4.8	3.5
34.0			5.0	4.0	2.8
36.0			4.4	3.4	
38.0			3.8	2.8	
40.0			3.3	2.2	
42.0				1.8	
44.0				1.4	
46.0				1.0	

* Over rear

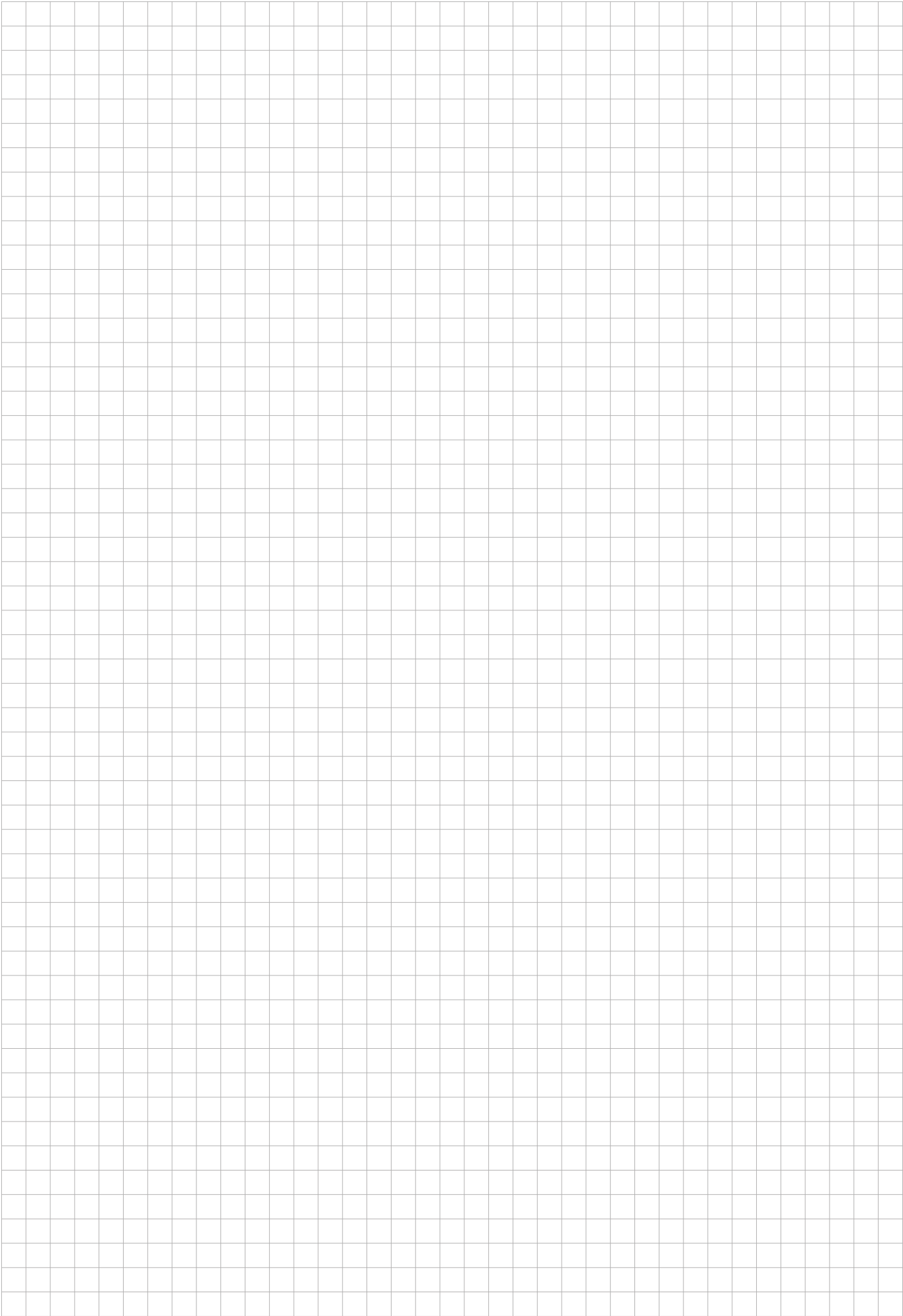
** With additional lifting equipment

UK configuration

Lifting capacities



 m	13.2 m + 1.1 m + 10.9 m			30.0 m + 1.1 m + 10.9 m			42.5 m + 1.1 m + 10.9 m			55.0 m + 1.1 m + 10.9 m			68.0 m + 1.1 m + 10.9 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	19.7														
3.5	19.6														
4.0	19.1														
4.5	18.6														
5.0	18.0														
6.0	17.0	14.1		19.1											
7.0	16.0	13.2		18.5											
8.0	15.1	12.4		17.8											
9.0	14.3	11.6		17.2			16.0								
10.0	13.5	11.0	9.3	16.5	13.1		15.7								
11.0	12.9	10.5	8.9	16.0	12.6		15.3								
12.0	12.3	10.0	8.6	15.4	12.1		14.9			10.0					
14.0	11.0	9.1	8.1	14.4	11.3	9.1	14.3	11.7		10.0					
16.0	9.8	8.4	7.7	13.5	10.6	8.7	13.6	11.2	9.1	10.0	10.0		6.6		
18.0	8.8	7.9	7.4	12.7	10.0	8.4	12.5	10.7	8.8	10.0	10.0		6.6		
20.0	8.0	7.5		11.7	9.5	8.1	11.8	10.2	8.5	9.8	9.7	8.6	6.6	6.6	
22.0	7.4	7.2		11.1	9.0	7.9	10.8	9.7	8.3	9.1	9.4	8.4	6.6	6.6	
24.0				10.3	8.6	7.7	9.9	9.3	8.1	8.1	8.8	8.2	6.6	6.6	6.6
26.0				9.4	8.2	7.5	9.0	8.9	7.9	7.5	8.1	7.9	5.7	6.6	6.6
28.0				8.2	7.9	7.4	8.1	8.0	7.7	6.5	7.3	7.6	4.8	5.7	6.4
30.0				7.2	7.6	7.3	7.1	7.6	7.6	5.6	6.3	6.9	4.0	4.8	5.5
32.0				6.6	6.7	7.0	6.2	6.7	7.0	4.9	5.5	6.0	3.2	4.0	4.6
34.0				5.8	6.1		5.4	5.8	6.2	4.2	4.8	5.3	2.6	3.3	3.9
36.0				5.1	5.4		4.7	5.1	5.4	3.6	4.1	4.5		2.7	3.2
38.0				4.6			4.1	4.5	4.7	3.0	3.5	3.9			2.6
40.0							3.6	3.9	4.1	2.5	2.9	3.3			
42.0							3.1	3.4	3.6	2.0	2.4	2.7			
44.0							2.7	3.0		1.6	2.0	2.2			
46.0							2.3	2.5			1.6	1.8			
48.0							2.0	2.2				1.4			
50.0							1.7								



EQUIPMENT

AUSSTATTUNG
ÉQUIPEMENT
EQUIPAMIENTO
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ОБОРУДОВАНИЕ



Equipment

Carrier

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

Outriggers: 4-point double telescopic hydraulic outriggers incl. asymmetric outrigger base and automatic length detection. Controls on both sides of carrier and in superstructure cab. Outrigger base 8.3 m (7.0 m / 5.6 m / 4.6 m / 2.7 m) x 9.0 m.

Engine: Mercedes-Benz 6 cylinder model OM 471 LA (EU Stage V / EPA Tier 4f), water-cooled diesel engine. Engine displacement 12.8 l. Rated at 390 kW (530 HP) at 1600 min⁻¹. Torque 2600 Nm at 1300 min⁻¹. Engine rating according to ECE R 120. Fuel tank: 600 l. AdBlue tank: 40 l.

Transmission: Main transmission: mechanical ZF-TraXon 12.1 transmission, 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.

Transfer case: Two-stage.

Drive: 10 x 8

Axles:

- 1st axle: steered, driven, with differential lock, transverse.
- 2nd axle: steered, driven, shiftable, with differential lock, transverse.
- 3rd axle: steered, not driven.
- 4th axle: steered, driven, with differential lock, longitudinal and transverse.
- 5th axle: steered, driven, with differential lock, transverse.

Suspension: Hydro-pneumatic with levelling adjustment.

Brake system: Service disk brakes: dual circuit compressed air system with electronic wear indicator. Parking brake: spring loaded type acting on 2nd, 4th and 5th axles. Auxiliary brakes: Intarder and engine brake.

Tyres: (10) 385/95 R 25 (14.00 R 25)

Steering system: ZF-Servocom, dual circuit hydraulic steering with emergency steering pump, mechanical steering of front two axles and automatic steering of the 3rd and 4th axles up to a travel speed of 30 km/h and of the 5th axle up to 50 km/h.

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 V DC, 2 batteries, outrigger area lighting, acoustic back-up alarm, lighting system with Bi halogen headlights; LED daytime running light; LED foglights, CAN bus system.

Optional equipment: (at extra charge)

Towing attachment, engine independent additional heater with engine pre-heat, drive 10 x 6, ABS system, 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25) tyres, spare wheel and tyre, special painting and lettering. Further optional equipment available upon request.

Superstructure

Frame: Torsion-resistant, all-welded structure. Connected to carrier by single-row, ball-bearing slewing ring with external gearing for 360° continuous rotation. Central lubricating system.

Engine: Mercedes-Benz 4 cylinder model OM 934 LA (EU Stage V / EPA Tier 4f), water cooled diesel engine. Engine displacement 5.1 l. Rated at 150 kW (204 HP) at 1800 min⁻¹. Torque 850 Nm at 1200 - 1600 min⁻¹. Engine rating according to ECE R 120. Fuel tank: 230 l. AdBlue tank: 25 l.

Hydraulic system: Three-circuit diesel-hydraulic system, 1 power-controlled axial piston twin pump (electro-hydraulically adjustable) with accumulative power control and 1 axial piston pump, oil cooler.

Controls: Electrical, 2 joy-stick levers for simultaneous operation of crane motions.

Telescopic boom: 7 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 6 telescoping sections extended by means of a single telescopic cylinder. All telescope sections extendable hydraulically under partial load. 13.2 m to 68.0 m long. Boom head with 7 sheaves.

Boom elevation: 1 double acting hydraulic cylinder with integral brake and holding valve.

Main winch: Axial piston motor, winch drum with integrated planetary reduction and hydraulically controlled spring-loaded multiple disc brake and integrated free rotation (no sagging of load when hoisting), drum turn indicator. Hoist cable with 'Super-Stop' easy reeving system.

Slewing system: Axial piston constant motor, three-stage planetary gear with service and parking brake. Open hydraulic circuit with wearless, dynamic free slewing function. Speed infinitely variable from 0 to 1.2 rpm.

Counterweight: Total 71 t, divisible. Controlled from superstructure cab.

Superstructure cab: Spacious crane cab in steel / plastic design with laterally extended tread plate, safety glass windows with tinted panes, tilting working place with adjustable, mechanically cushioned driver's seat with heating, engine-fed and autonomous water heating (with engine pre-heating), air conditioning, radio/CD player with MP3/USB/SD Card port, control and operating elements for crane operation, outrigger actuation and carrier engine features.

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

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

Optional equipment: (at extra charge)

Jib 1.1 m + 4.7 to 1.1 m + 34.9 m, offsets 0°, 20° and 40° or hydraulically 0°- 40°, heavy duty fly jib 0.4 m + 1.2 m, HTLJ jib 1.9 m + 8.5 m to 1.9 m + 20.9 m (hydraulically tiltable and telescopic 5° to 60°), hook blocks from 32 t to 200 t, 2nd hoisting winch (as main winch), supported forces display, special paint and lettering. Further optional equipment available on request.

Unterwagen

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

Abstützung: Hydraulische 4-Punkt-Doppelteleskopabstützung, inkl. asymmetrischer Abstützbasis und automatischer Längserkennung, Bedienungsmöglichkeiten an beiden Seiten des Fahrgestelles und in der Oberwagenkabine. Abstützbasis 8,3 m (7,0 m / 5,6 m / 4,6 m / 2,7 m) x 9,0 m.

Motor: Mercedes-Benz 6-Zylinder-Dieselmotor OM 471 LA (EU Stage V / EPA Tier 4f), wassergekühlt, Hubraum 12,8 l, Leistung 390 kW (530 PS) bei 1600 min⁻¹. Drehmoment 2600 Nm bei 1300 min⁻¹. Motorleistung nach ECE R 120. Kraftstoffbehälter: 600 l. AdBlue-Behälter: 40 l.

Getriebe: Hauptgetriebe ZF-TraXon 12.1, 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.

Verteilergetriebe: 2-stufiges Verteilergetriebe.

Antrieb: 10 x 8

Achsen:

1. Achse: gelenkt, angetrieben, Differentialsperre quer.
2. Achse: gelenkt, angetrieben, zuschaltbar, Differentialsperre quer.
3. Achse: gelenkt, nicht angetrieben.
4. Achse: gelenkt, angetrieben, Differentialsperre längs und quer.
5. Achse: gelenkt, angetrieben, Differentialsperre quer.

Achsaufhängung: Hydropneumatische Federung mit Niveauregulierung.

Bremsen: Druckluft-Zweikreis-Scheibenbremsanlage mit elektronischer Verschleißanzeige. Feststellbremse als Federspeicherbremse an der 2., 4. und 5. Achse wirkend. Intarder und Motorbremse als Dauerbremse.

Räder: 10-fach 385/95 R 25 (14.00 R 25)

Lenkung: ZF-Servocom-Zweikreis-Hydraulenlenkung mit Notlenkpumpe. Mechanische Lenkung der 1. und 2. Achse und Mittlenken der 3. und 4. Achse bis zu einer Geschwindigkeit von 30 km/h und der 5. Achse bis zu einer Fahrgeschwindigkeit von 50 km/h.

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, Abstützfeldbeleuchtung, akustischer Rückfahralarm, Beleuchtungsanlage mit Bi-Halogenscheinwerfern, LED Tagfahrlicht, LED Nebelscheinwerfer, CAN-Bus System.

Zusatzausrüstung:

(gegen Mehrpreis)
Anhängerkupplung, motorunabhängige Zusatzheizung mit Motorvorwärmung, 10 x 6 Antrieb, ABS, 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25) Bereifung, Reserverad, Sonderlackierung und Beschriftung. Weitere Zusatzausrüstung auf Anfrage.

Oberwagen

Rahmen: Verwindungssteife Schweißkonstruktion mit einer außenverzahnten, einreihigen Kugeldrehverbindung, um 360° unbegrenzt drehbar. Zentralschmieranlage.

Motor: Mercedes-Benz 4-Zylinder-Dieselmotor OM 934 LA (EU Stage V / EPA Tier 4f), wassergekühlt. Drehzahl ist über Fußpedal stufenlos regelbar, Hubraum 5,1 l, Leistung 150 kW (204 PS) bei 1800 min⁻¹. Drehmoment 850 Nm bei 1200 - 1600 min⁻¹. Motorleistung nach ECE R 120. Kraftstoffbehälter: 230 l. AdBlue-Behälter: 25 l.

Hydraulik System: Diesel-hydraulisch mit 3-Kreis-Hydraulik, 1 leistungsgeregelte Axialkolbendoppelpumpe (elektro-hydraulisch verstellbar) mit Summenschaltung und 1 Axialkolbenpumpe, Ölkühler.

Steuerung: Zwei 4-fach Kreuzsteuerhebel mit elektrischer Vorsteuerung.

Teleskopausleger: Siebenteiliger Teleskopausleger aus hochfestem Feinkornstahl, bestehend aus einem Grundauleger und 6 Teleskopteilen, 1 Teleskopzylinder, hydraulisch unter Teillast teleskopierbar. 13,2 m - 68,0 m lang. Rollenkopf mit 7 Seilrollen.

Wippwerk: Ein Differentialzylinder mit angebautem Senkbremsventil.

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

Drehwerk: Axialkolben-Konstant-Motor, dreistufiges Planetengetriebe mit Betriebs- und Feststellbremse. Offener Hydraulikkreislauf mit verschleißfreier, dynamischer Drehwerk-Freischaltung. Drehgeschwindigkeit stufenlos von 0 - 1,2 min⁻¹.

Gegengewicht: Gesamtgewicht 71 t, teilbar. Die Bedienung erfolgt aus der Oberwagenkabine.

Oberwagenkabine: Großräumige Krankabine in Stahl- Kunststoffausführung mit seitlich ausfahrbarem Auftrittblech, Sicherheitsverglasung und getönten Scheiben, kippbarem Arbeitsplatz mit verstellbarem, mechanisch gedämpftem Fahrersitz mit Heizung, motorabhängige und motorunabhängige Wasserheizung (mit Motorvorwärmung), Klimaanlage, Radio/CD-Player mit MP3/USB/SD Card Anschluss, Kontroll- und Bedienungselemente für Kranbetrieb, Betätigung der Abstützung und Motorfunktionen des Unterwagens.

Elektrische Anlage: 24 Volt-Gleichstrom, 2 Batterien. 2 Arbeitscheinwerfer am Grundauleger, 2 integriert in die Krankabine.

Sicherheitseinrichtungen: 'Lift & Release Adjuster', elektronische Last-momentbegrenzung (LMB) mit Ampelkennleuchte, Windmesser, Dreh- und Arbeitsbereichsbegrenzung mit 'Slow-Stop' Funktion, Hubendschalter, Windenendschalter, Sicherheitsventile gegen Rohr- und Schlauchbrüche.

Zusatzausrüstung:

(gegen Mehrpreis)
Auslegerverlängerung 1,1 m + 4,7 m bis 1,1 m + 34,9 m, wahlweise abwinkelbar 0°, 20° und 40° oder hydraulisch 0°- 40°, Schwerlastspitze 0,4 m + 1,2 m, Auslegerverlängerung HTLJ 1,9 m + 8,5 m bis 1,9 m + 20,9 m (hydraulisch abwinkel- und teleskopierbar 5° - 60°), Unterflaschen von 32 t bis 200 t, 2. Hubwinde (wie Hauptwinde), Stützkraftanzeige, Sonderlackierung und Beschriftung. Weitere Zusatzausrüstung auf Anfrage.

Équipement

Châssis

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

Calage: Dispositif de calage horizontal et vertical double en 4 points, entièrement déployable hydrauliquement, y compris distance entre appuis asymétrique, détection de longueur automatique et commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 8,3 m (7,0 m / 5,6 m / 4,6 m / 2,7 m) x 9,0 m.

Moteur: Mercedes Benz diesel 6 cylindres, modèle OM 471 LA (EU Stage V / EPA Tier 4f), refroidi par eau, cylindrée 12,8 l, de 390 kW (530 CV) à 1600 min⁻¹. Couple: 2600 Nm à 1300 min⁻¹. Puissance selon ECE R 120. Capacité du réservoir: 600 l. Capacité du réservoir AdBlue: 40 l.

Boîte de vitesse: Boîte principale ZF-TraXon 12.1, 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.

Boîte de transfert: à 2 gammes.

Entraînement: 10 x 8

Essieux:

- 1^{er} essieu: directeur, entraîné, blocage de différentiel transversal.
- 2^{ème} essieu: directeur, entraîné, entraîné sur commande, blocage de différentiel transversal.
- 3^{ème} essieu: directeur, non entraîné.
- 4^{ème} essieu: directeur, entraîné, blocage de différentiel longitudinal et transversal.
- 5^{ème} essieu: directeur, entraîné, blocage de différentiel transversal.

Suspension: Hydro-pneumatique, avec réglage de niveau.

Freins: Système de freinage à disque à air comprimé, à deux circuits, avec indicateur d'usure électronique. Frein de stationnement, agit sur les essieux 2, 4 et 5 comme frein à ressorts accumulateurs. Intarder et frein moteur comme frein continu.

Pneus: 10 x 385/95 R 25 (14.00 R 25)

Direction: Servocom à double circuit, marque ZF avec pompe de secours pour direction. Direction mécanique du 1^{er} et 2^{ème} essieu, direction à assistance hydraulique du 3^{ème} et 4^{ème} essieu jusqu'à une vitesse de 30 km/h, et du 5^{ème} essieu jusqu'à une vitesse de 50 km/h.

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 chauffant, chauffage d'eau alimenté par le moteur, climatiseur, dispositif mains libres Bluetooth, affichage multifonctions, 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 CC, 2 batteries, allumage de la zone d'appui, alarme de recul acoustique, système d'éclairage avec des projecteurs halogène Bi ; feu de circulation diurne DEL ; feux-brouillard DEL, système du bus CAN.

Équipement supplémentaire: (avec supplément de prix) Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, entraînement 10 x 6, système ABS, pneus 445/95 R 25 (16.00 R 25), 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 une rotation illimitée sur 360°. Graissage centralisé.

Moteur: Mercedes Benz diesel 4 cylindres, modèle OM 934 LA (EU Stage V / EPA Tier 4f), refroidi par eau. Réglage en continu du nombre de tours par pédale, cylindrée 5,1 l, de 150 kW (204 CV) à 1800 min⁻¹. Couple: 850 Nm à 1200 - 1600 min⁻¹. Puissance selon ECE R 120. Capacité du réservoir: 230 l. Capacité du réservoir AdBlue: 25 l.

Système hydraulique: Diesel-hydraulique à 3 circuits, 1 double pompe à piston axial réglée en fonction de la puissance (à réglage électro-hydraulique) avec circuit de la somme et 1 pompe à piston axial, refroidisseur d'huile.

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

Flèche télescopique: Flèche télescopique à 7 éléments en acier à texture fine et très résistant, se composant de 1 flèche de base et 6 éléments télescopiques en acier fin, 1 vérin télescopique, hydrauliquement télescopable avec charge partielle. Longueur de 13,2 m à 68,0 m. Tête de flèche avec 7 poulies.

Mécanisme de relevage: 1 vérin différentiel muni de clapet de freinage de descente.

Mécanisme de levage: Moteur à pistons axiaux, tambour de levage avec boîte planétaire incorporée, frein d'arrêt à disques multiples à ressort, libéré lors du levage, indicateur de rotation du treuil. Câble de levage avec dispositif 'Super-Stop'.

Groupe de rotation: Moteur à cylindrée constante à pistons axiaux, avec engrenage planétaire à trois étages avec frein de service et frein d'arrêt. Circuit hydraulique ouvert avec déconnexion du groupe de rotation dynamique sans usure. Vitesse de rotation 0 à 1,2 min⁻¹ en continu.

Contrepoids: Poids total 71 t, divisible, commandé depuis la cabine du grutier.

Cabine du grutier: Cabine de grue spacieuse, construction en acier/plastique avec tôle marche-pied extensible latéralement, 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 autonome (avec préchauffage du moteur), climatiseur, radio / CD-player avec connecteur pour carte MP3/USB/SD, éléments de commande et de contrôle pour le service de grue, actionnement des outriggers et fonctions du moteur dans le châssis.

Système électrique: 24 V CC, 2 batteries. 2 phares de travail sur la flèche de base, 2 intégrés dans la cabine de grue.

Dispositifs de sécurité: 'Lift & Release Adjuster', contrôleur de l'état de charge (CEC) électronique avec lampe de signalisation, anémomètre, limitation de rotation et limitation de la zone de travail avec fonction « Slow-Stop », interrupteur de fin de course de levage et de treuil, soupapes de sécurité contre ruptures des conduites et flexibles.

Équipement supplémentaire: (avec supplément de prix) Rallonge de flèche 1,1 m + 4,7 à 1,1 m + 34,9 m au choix inclinable 0°, 20° et 40° ou hydrauliquement 0° à 40°, fléchette pour levage lourde 0,4 m + 1,2 m, rallonge de flèche HTLJ 1,9 m + 8,5 m à 1,9 m + 20,9 m (inclinable et télescopable hydrauliquement de 5° à 60°, mouffles inférieures de 32 t à 200 t, 2^{ème} treuil de levage (identique au treuil principal), affichage des forces d'appui, 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 8,3 m (7,0 m / 5,6 m / 4,6 m / 2,7 m) x 9,0 m.

Motor: Mercedes Benz modelo OM 471 LA (EU Stage V / EPA Tier 4f), 6 cilindros, diesel, refrigerado por agua. Cilindrada 12,8 l. Nominal 390 kW (530 CV) a 1600 min⁻¹. Par 2600 Nm a 1300 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible de 600 l. Depósito AdBlue: 40 l.

Transmisión: Transmisión principal mecánica del tipo ZF-TraXon 12.1 con intarder integrado, con embrague en seco accionado de modo electro-neumático y cambio automático de 12 marchas hacia delante y 2 marchas atrás. En caso necesario, operación semiautomática (Tip-Tronic) con selección manual de las marchas.

Divisor de fuerza: Caja de distribución (transfer) con 2 relaciones de velocidad.

Tracción: 10 x 8

Ejes:

- 1º eje: de dirección, accionado, con bloqueo diferencial transversal.
- 2º eje: de dirección, accionado, conectar según necesidad, con bloqueo diferencial transversal.
- 3º eje: de dirección, no accionado.
- 4º eje: de dirección, accionado, con bloqueo diferencial longitudinal y transversal.
- 5º eje: de dirección, accionado, con bloqueo diferencial transversal.

Suspensión de los ejes: Suspensión hidroneumática con regulación de nivel.

Frenos: Sistema de frenos de disco neumático de doble circuito con indicador electrónico de desgaste. Freno de estacionamiento como freno de acumuladores a resorte accionando en los ejes 2, 4 y 5. Intarder y freno de motor como freno continuo.

Neumáticos: 10 x 385/95 R 25 (14.00 R 25)

Dirección: Hidráulica ZF Servocom de doble circuito. Bomba hidráulica de emergencia. Dirección mecánica al 1º y 2º eje y direccionable al 3º y 4º eje hasta una velocidad de 30 km/h y al 5º eje hasta una velocidad de conducción de 50 km/h.

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, iluminación de la zona de apoyo, alarma acústica para indicar la marcha atrás, sistema de luces con faros bihalógenos, luz LED de marcha diurna, faro LED antiniebla, sistema de bus CAN.

Equipamiento adicional: (con suplemento de precio) Enganche de remolque, calefacción adicional independiente del motor con precalefacción del motor, tracción 10 x 6, sistema anti bloqueo ABS, neumáticos 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25), rueda de repuesto, pintura especial y rotulación. Otros equipamientos sobre pedido.

Superestructura

Bastidor: Construida en aceros soldados, resistente a la torsión. Corona de giro con rodamiento de una fila de bolas con dientes externos para giro continuo a 360°. Sistema de engrase central.

Motor: Mercedes Benz modelo OM 934 LA (EU Stage V / EPA Tier 4f), 4 cilindros, diesel, refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador. Cilindrada 5,1 l. Nominal 150 kW (204 CV) a 1800 min⁻¹. Par 850 Nm a 1200 - 1600 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible de 230 l. Depósito AdBlue: 25 l.

Sistema hidráulico: Dieselhidráulico con sistema hidráulico de 3 circuitos, 1 bomba doble de pistones axiales de caudal variable (regulable electro-hidráulicamente) con regulación a caudal total y 1 bomba de pistones axiales, enfriador de aceite.

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

Pluma telescópica: 7 secciones, un tramo base y 6 telescópicos de acero de alta resistencia soldado, 1 cilindro hidráulico, los tramos se pueden telescopar hidráulicamente bajo carga parcial. Longitud de 13,2 m a 68,0 m. Cabeza de pluma con 7 poleas.

Mecanismo de basculado: Mediante un cilindro hidráulico de doble efecto con válvula de retención integrada.

Cabrestante principal: Motor hidráulico de pistones axiales. Tambor del cabrestante con reducción planetaria y frenos de disco múltiples, cargado a resorte, con sistema libre de elevación, indicador de giros del cabrestante. Cable de elevación con sistema fácil de guiado y 'Super-Stop'.

Sistema de giro: Motor de cilindrada constante de émbolos axiales, engranaje planetario de tres etapas con freno de servicio y estacionamiento. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio dinámico sin desgaste, Velocidad de giro gradual de 0 a 1,2 min⁻¹.

Contrapeso: Peso total 71 t, divisible, se acciona desde la cabina de la grúa.

Cabina de la grúa: Amplia cabina de grúa construida en chapa de acero y plástico con chapa pisadera lateral extensible, acristalamiento de seguridad coloreado, puesto de trabajo abatible con asiento de conductor regulable amortiguado mecánicamente con calefacción, calefacción por agua dependiente e independiente del motor (con precalentamiento del motor), climatizador, radio/CD-player con toma para MP3/USB/tarjeta SD, elementos de control y mando para el servicio de la grúa, accionamiento de estabilizadores y funciones chasis-motor.

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

Dispositivos de seguridad: "Lift & Release 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, interruptor de fin de carrera del cabrestante. Válvulas de seguridad contra roturas de tubos y de tubos flexibles.

Equipamiento adicional: (con suplemento de precio) Plumín de 1,1 m + 4,7 a 1,1 m + 34,9 m, regulable opcionalmente de 0°, 20° y 40° (o hidráulicamente 0° a 40°), plumín de carga pesada de 0,4 m + 1,2 m, alargamiento de pluma HTLJ de 1,9 m + 8,5 m a 1,9 m + 20,9 m (telescopable y regulable hidráulicamente de 5° a 60°), pastecas de carga de 32 t a 200 t, 2º cabrestante (similar al cabrestante principal), indicador de la fuerza de apoyo, pintura especial y rotulación. Otros equipamientos 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 8,3 m (7,0 m / 5,6 m / 4,6 m / 2,7 m) x 9,0 m.

Motore: Motore Diesel a 6 cilindri Mercedes-Benz OM 471 LA, (EU Stage V / EPA Tier 4f), raffreddato ad acqua, cilindrata 12,8 l, potenza 390 kW (530 PS) a 1600 min⁻¹. Coppia 2600 Nm a 1300 min⁻¹. Potenza motore conforme a ECE R 120. Serbatoio carburante: 600 l. Serbatoio AdBlue: 40 l.

Cambio: Trasmissione principale ZF-TraXon 12.1 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.

Gruppo di rinvio: Gruppo di rinvio a 2 stadi.

Trasmissione: 10 x 8

Assi:

- 1° asse: snodato, asse motore, bloccaggio differenziale trasversale.
- 2° asse: snodato, asse motore, regolabile, bloccaggio differenziale trasversale.
- 3° asse: snodato, non asse motore.
- 4° asse: snodato, asse motore, bloccaggio differenziale longitudinale e trasversale.
- 5° asse: snodato, asse motore, bloccaggio differenziale trasversale.

Sospensione assiale: Sospensione idro-pneumatica con regolazione di livello.

Freni: Impianto ad aria compressa per freno a doppio circuito e a disco con indicazione usura elettronica. Freno di stazionamento con funzione di freno a molla a rilascio pneumatico sul 2°, 4° e 5° asse. Intarder e freno motore come freno continuo.

Ruote: 10x 385/95 R 25 (14.00 R 25)

Sterzo: Sistema idroguida a doppio circuito ZF Servocom con pompa sterzo di emergenza. Sterzata meccanica del 1° e 2° asse e attivazione sul 3° e 4° asse fino a una velocità di 30 km/h e sul 5° asse fino a una velocità di 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, illuminazione zona di stabilizzazione, segnale acustico retromarcia, impianto di illuminazione con faro bi-alogeno, luce diurna LED, fendinebbia LED, sistema CAN-Bus.

Equipaggiamento aggiuntivo: (a sovrapprezzo)

Gancio di traino, riscaldamento supplementare indipendente dal motore con preriscaldamento motore, trasmissione 10 x 6, ABS, pneumatici 445/95 R 25 (16.00 R 25), 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 sfere ad una fila, dentata esternamente, ruotabile di 360° senza limitazioni. Impianto di lubrificazione centrale.

Motore: Motore Diesel a 4 cilindri Mercedes-Benz OM 934 LA, (EU Stage V / EPA Tier 4f), raffreddato ad acqua. Regolazione continua numero di giri da pedale, cilindrata 5,1 l, potenza 150 kW (204 PS) a 1800 min⁻¹. Coppia 850 Nm a 1200 - 1600 min⁻¹. Potenza motore conforme a ECE R 120. Serbatoio carburante: 230 l. Serbatoio AdBlue: 25 l.

Impianto idraulico: Diesel-idraulico con idraulica a 3 circuiti, 1 pompa doppia a pistoni assiali con regolazione di potenza (regolazione elettroidraulica) e circuito a somma di portate e 1 pompa a pistoni assiali, radiatore olio.

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

Braccio telescopico: Braccio telescopico in sette sezioni in acciaio a grano fine ad alta resistenza, composto da un braccio base e 6 sezioni telescopiche, 1 cilindro telescopico, funzione telescopica ad azionamento idraulico sotto carico parziale. Lunghezza 13,2 m - 68,0 m. Testa rullo con 7 pulegge.

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

Meccanismo di sollevamento: Motore 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'.

Gruppo di rotazione: Motore costante a pistoni assiali, ingranaggio epicicloidale a tre stadi con freno di servizio e di stazionamento. Circuito idraulico aperto con attivazione gruppo di rotazione privo di usura e dinamica. Velocità di rotazione regolabile in continuo da 0 a 1,2 min⁻¹.

Contrappeso: Peso complessivo 71 t, divisibile.

L'azionamento si effettua dalla cabina della sovrastruttura.

Cabina della sovrastruttura: Cabina della gru spaziosa realizzata in acciaio-plastica, con piastra di accesso abbassabile laterale, vetratura di sicurezza e cristalli oscurati, postazione di lavoro ribaltabile con sedile conducente regolabile, con molleggio meccanico e riscaldamento, riscaldamento dell'acqua dipendente e indipendente dal motore (con preriscaldamento motore), climatizzatore, radio/lettore CD con collegamento MP3/USB/SD, elementi di controllo e comando per esercizio gru, azionamento stabilizzazione e funzioni motore del carro.

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

Dispositivi di sicurezza: 'Lift & Release 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 1,1 m + 4,7 a 1,1 m + 34,9 m a scelta con regolazione angolo 0°, 20° e 40° o regolazione idraulica 0°- 40°, falcone per carichi pesanti 0,4 m + 1,2 m, prolunga del braccio HTLJ da 1,9 m + 8,5 m a 1,9 m + 20,9 m (a regolazione idraulica e telescopica 5° - 60°), bozzelli da 32 t a 200 t, 2° argano di sollevamento (come argano principale), indicazione della capacità di appoggio, 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: Гидравлическая опора 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 8,3 м (7,0 м / 5,6 м / 4,6 м / 2,7 м) x 9,0 м.

Двигатель: 6-цилиндровый дизельный двигатель Mercedes-Benz OM 471 LA, (EU Stage V / EPA Tier 4f), с водяным охлаждением. Рабочий объем двигателя 12,8 л, мощность 390 кВт (530 л.с.) при 1 600 об/мин. Крутящий момент 2 600 Н·м при 1 300 об/мин. Мощность двигателя согласно ECE R 120. Топливный бак: 600 л. Бак для присадки AdBlue: 40 л.

Коробка передач: Главный редуктор ZF-TraXon 12.1, механическая коробка передач 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.

Раздаточная коробка: 2-ступенчатая раздаточная коробка.

Привод: 10 x 8

Оси:

- 1-я ось: управляемая, приводная, с поперечной блокировкой межколёсного дифференциала.
- 2-я ось: управляемая, приводная, подключаемая, с поперечной блокировкой межколёсного дифференциала.
- 3-я ось: управляемая, неприводная.
- 4-я ось: управляемая, приводная, с продольной и поперечной блокировкой межколёсного дифференциала.
- 5-я ось: управляемая, приводная, с поперечной блокировкой межколёсного дифференциала.

Подвеска оси: Гидропневматическая подвеска с регулировкой уровня.

Тормоза: Пневматическая двухмагистральная дисковая тормозная система с электронным индикатором износа. Стояночный тормоз, представляющий собой тормозной механизм с пружинным энергоаккумулятором, воздействует на 2-ю, 4-ю и 5-ю оси. Интардер и моторный тормоз в качестве постоянного тормоза.

Колеса: 10-ные 385/95 R 25 (14.00 R 25)

Рулевое управление: Двухконтурное гидравлическое рулевое управление ZF-Servocom с резервным насосом рулевого управления. Механическое рулевое управление 1-й и 2-й осями и автоматическое подруливание 3-й и 4-й осью при скорости до 30 км/ч и 5-й осью при скорости движения до 50 км/ч.

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, подсветка аутригеров, звуковой сигнал при движении задним ходом, система световых приборов с бигалогеновыми фарами, светодиодные дневные ходовые огни, светодиодные противотуманные фары, система шины CAN.

Дополнительное оборудование: (за надбавку к цене) Тягово-цепное устройство, независимый от работы двигателя дополнительный отопитель с подогревом двигателя, привод 10 x 6, ABS, шины 445/95 R 25 (16.00 R 25), 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 однорядным сферическим поворотным соединением с внешними зубьями, с неограниченным поворотом на 360°. Централизованная смазочная система.

Двигатель: 4-цилиндровый дизельный двигатель Mercedes-Benz OM 934 LA, (EU Stage V / EPA Tier 4f), с водяным охлаждением. Бесступенчатая регулировка оборотов посредством педали. Рабочий объем двигателя 5,1 л, мощность 150 кВт (204 л.с.) при 1 800 об/мин. Крутящий момент 850 Н·м при 1 200 – 1 600 об/мин. Мощность двигателя согласно ECE R 120. Топливный бак: 230 л. Бак для присадки AdBlue: 25 л.

Гидравлическая система: Дизельно-гидравлическая с 3-контурным гидроагрегатом, 1 аксиально-поршневой насос двойного действия (с электрогидравлической регулировкой) с суммирующей схемой и 1 аксиально-поршневой насос одинарного действия, масляный радиатор.

Система управления: Два 4-сторонних крестовых рычага управления с предварительным электрическим регулированием.

Телескопическая стрела: Семисекционная телескопическая стрела из высокопрочной мелкозернистой стали, включает основную секцию стрелы и 6 телескопических секций, 1 телескопический цилиндр, выдвигается гидравлическим способом по мере создания нагрузки. Длина 13,2 – 68,0 м. Роликовая обойма с 7-ю канатными шкивами.

Механизм изменения подъёма стрелы: Дифференциальный цилиндр со смонтированным на нем клапаном спускового тормоза.

Подъемный механизм: Аксиально-поршневой двигатель с постоянным рабочим объемом, барабан подъемного механизма с встроенной планетарной коробкой передач и пружинным гидравлическим многодисковым тормозом с встроенным механизмом свободного хода при подъеме, сигнализатор вращения барабана лебедки. Подъемный трос с тормозным приспособлением 'Super-Stop'.

Поворотный механизм: Аксиально-поршневой двигатель с постоянным рабочим объемом, трехступенчатый планетарный редуктор с рабочим и стояночным тормозом. Гидравлический контур, работающий по разомкнутой схеме, с износостойкой динамической схемой включения поворотного механизма. Бесступенчатое изменение скорости вращения, 0 – 1,2 об/мин.

Противовес: Общий вес 71 т, составной. Управление осуществляется из кабины на поворотной платформе.

Кабина на поворотной платформе: Просторная кабина крана композитной конструкции (металл и пластик) с выдвижной боковой подножкой, остекление тонированным безосколочным стеклом, откидное рабочее место с регулируемым по высоте сиденьем водителя с механическим амортизатором и подогревом, зависимый или независимый от работы двигателя отопитель (с подогревом двигателя), кондиционер, радио / CD-плеер с портом для подключения MP3/USB/карты памяти SD, элементы управления и индикации для режима работы крана, выдвигания аутригеров и перемещения крана по рабочей площадке.

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

Устройства безопасности: Регулятор подъема 'Lift & Release 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) удлинение стрелы 1,1 м + 4,7 м до 1,1 м + 34,9 м, по выбору регулятор угла поворота 0°, 20° и 40° или гидравлический регулятор 0°–40°, гусек для тяжелых грузов 0,4 м + 1,2 м, удлинитель стрелы HTLJ от 1,9 м + 8,5 м до 1,9 м + 20,9 м (гидравлическое изменение угла и телескопирование 5°–60°), крюковые обоймы от 32 т до 200 т, 2-я подъемная лебедка (аналогичная главной лебедке), индикатор опорного усилия, 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

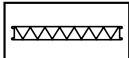
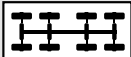
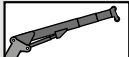
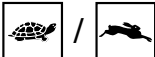
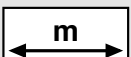
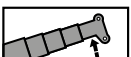
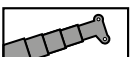
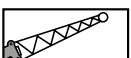
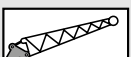
A no ser que se indique lo contrario, todos los datos incluidos en este folleto hacen referencia al equipamiento estándar de la grúa y sólo tienen un carácter informativo general. El manual de instrucciones original y las tablas de capacidades de carga son determinantes para lograr un correcto funcionamiento 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.

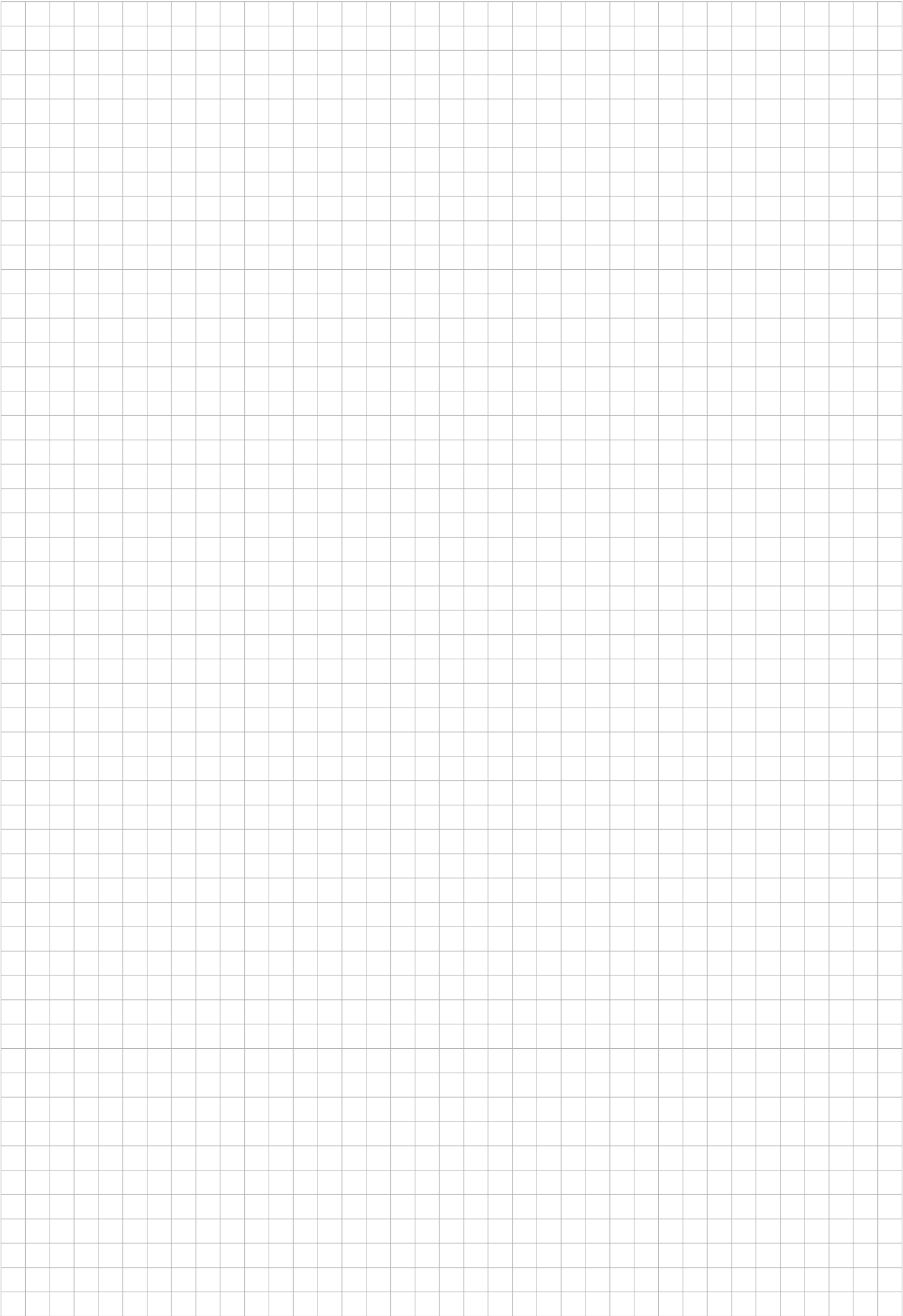
Se non diversamente specificato, tutti i dati di questa brochure si riferiscono alla dotazione standard della gru e sono da considerarsi come informazioni generali. Per un esercizio corretto della gru, sono determinanti il manuale d'uso originale e le tabelle delle portate. Si declina ogni responsabilità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

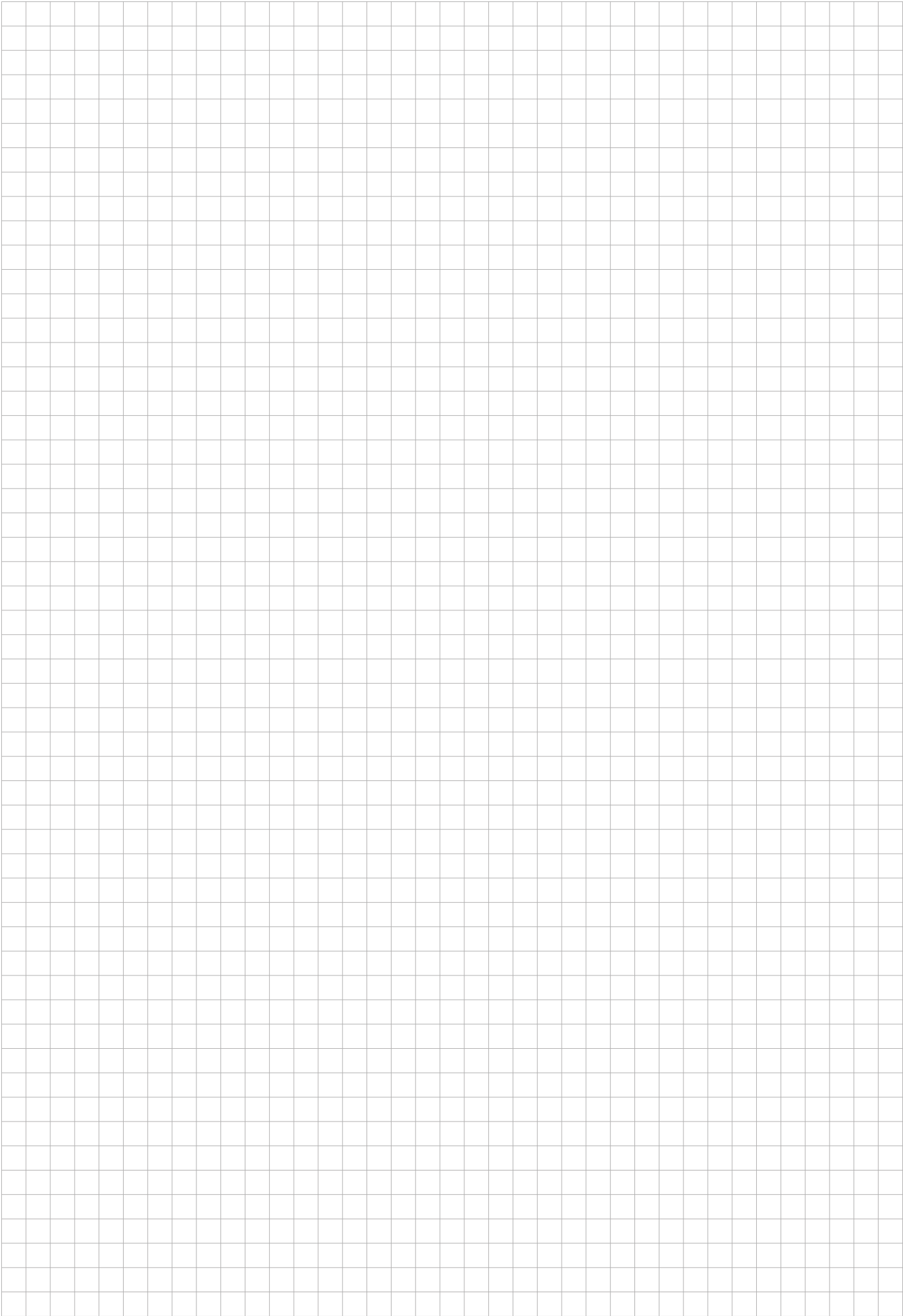
Все данные, приведенные в этой брошюре, относятся — если не указано иное — к стандартному оснащению крана и служат лишь для общей информации. Порядок надлежащей эксплуатации крана определяется оригиналом руководства по эксплуатации и таблицами грузоподъемности. Все данные приведены без обязательств.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

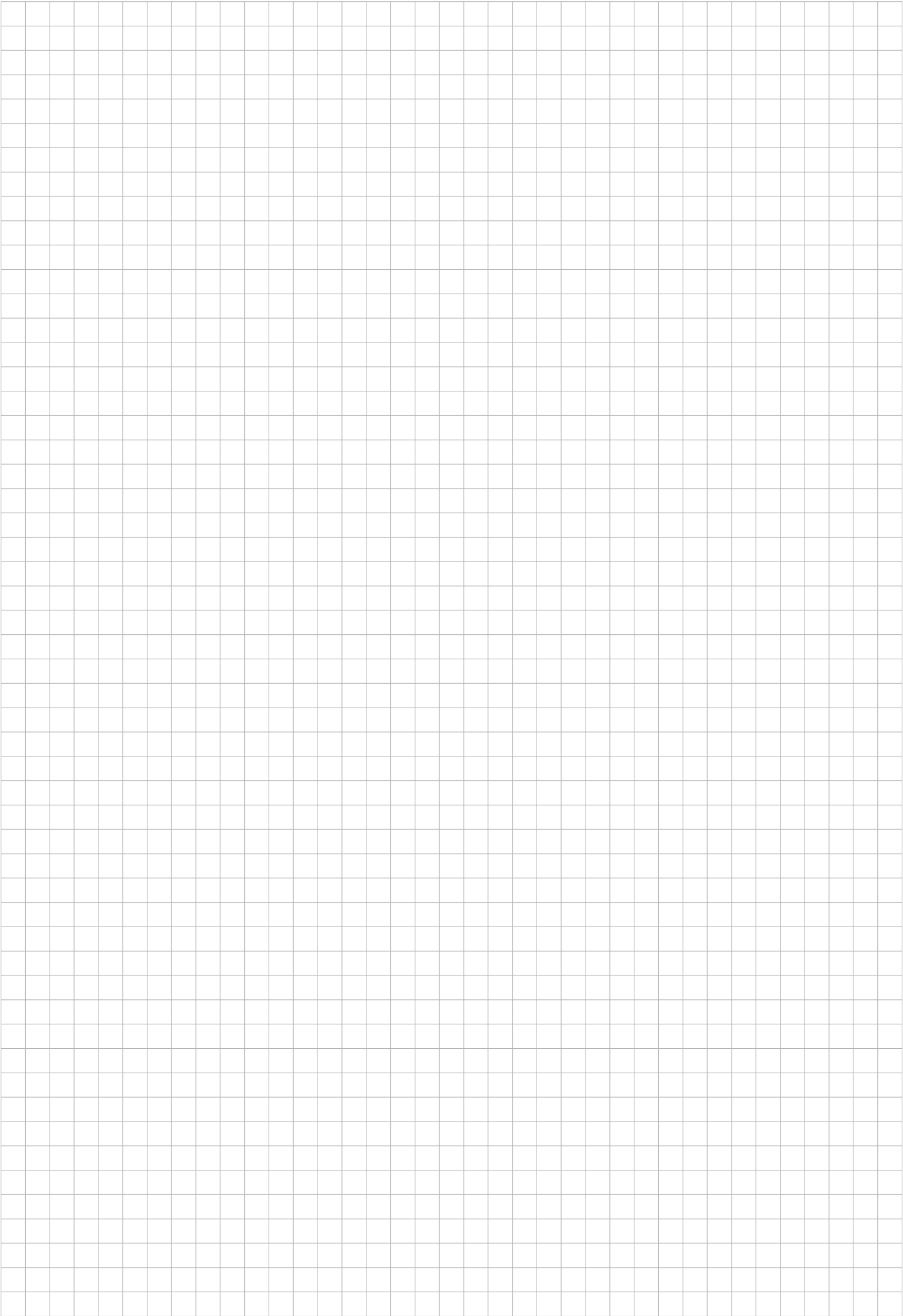
Symbols · Symbolerklärung · Glossaire des symboles

Glosario de simbolos · Spiegazione dei simboli · Условные обозначения

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







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Lifting your dreams

