

ATF 600G-8

600 TON MAX. LIFTING CAPACITY

EU STAGE IV

ALL TERRAIN CRANE



PRELIMINARY

2 ENGINES

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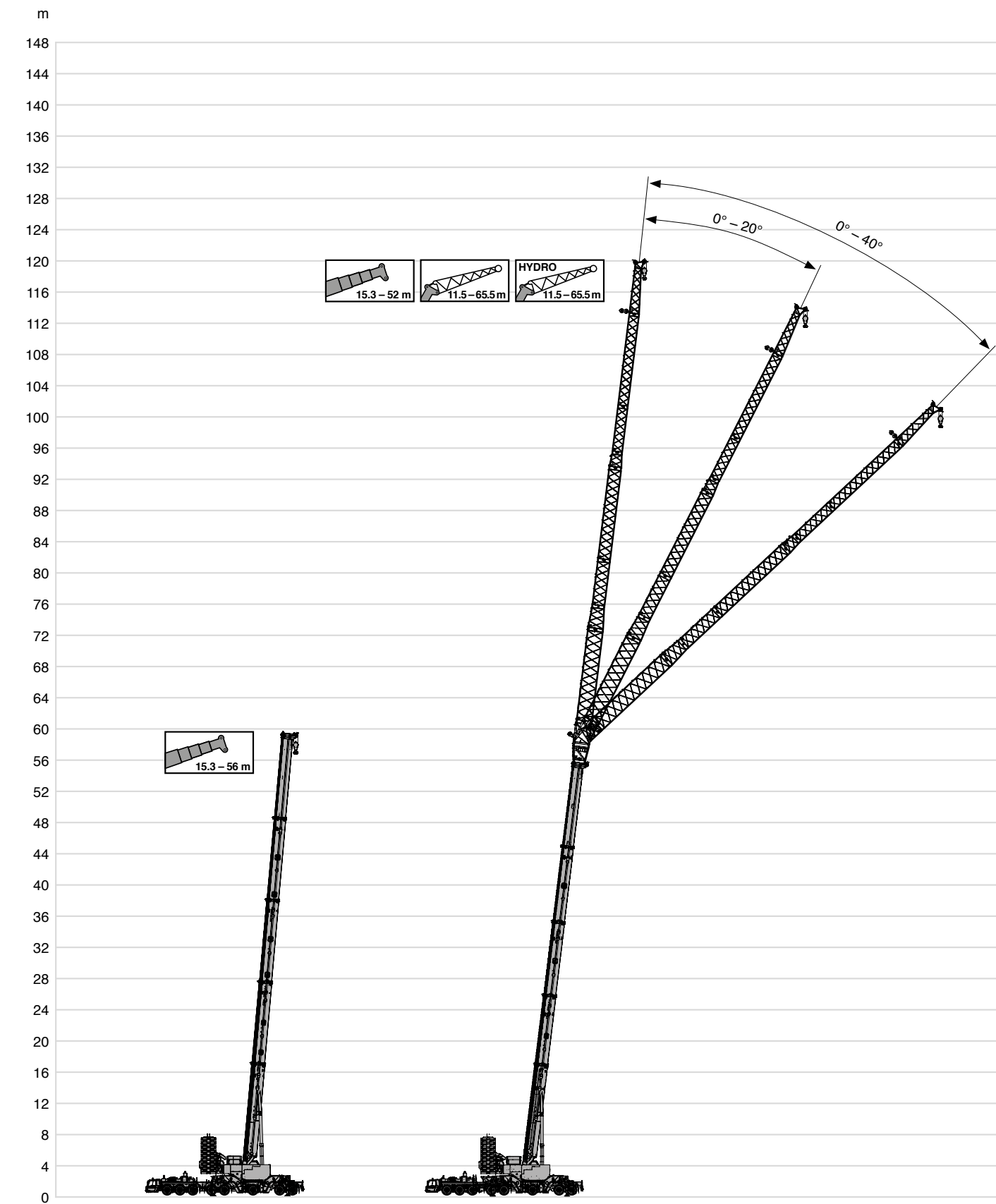
GENERAL TECHNICAL DATA

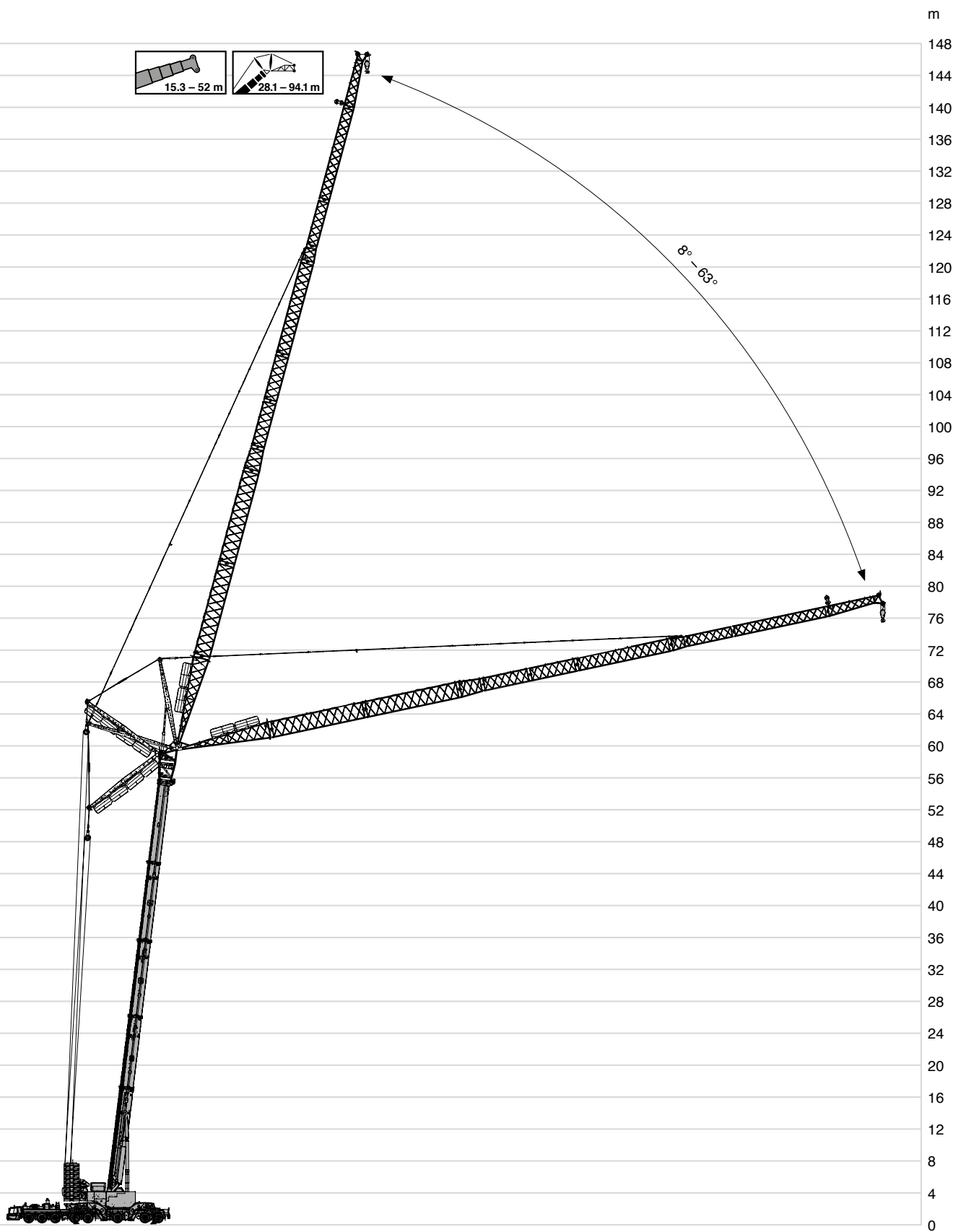
ALLGEMEINE TECHNISCHE DATEN
CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES
DATOS TÉCNICOS GENERALES
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ОБЩИЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ



General · Allgemein · Généralités
Generalidades · Generalità · Общие положения

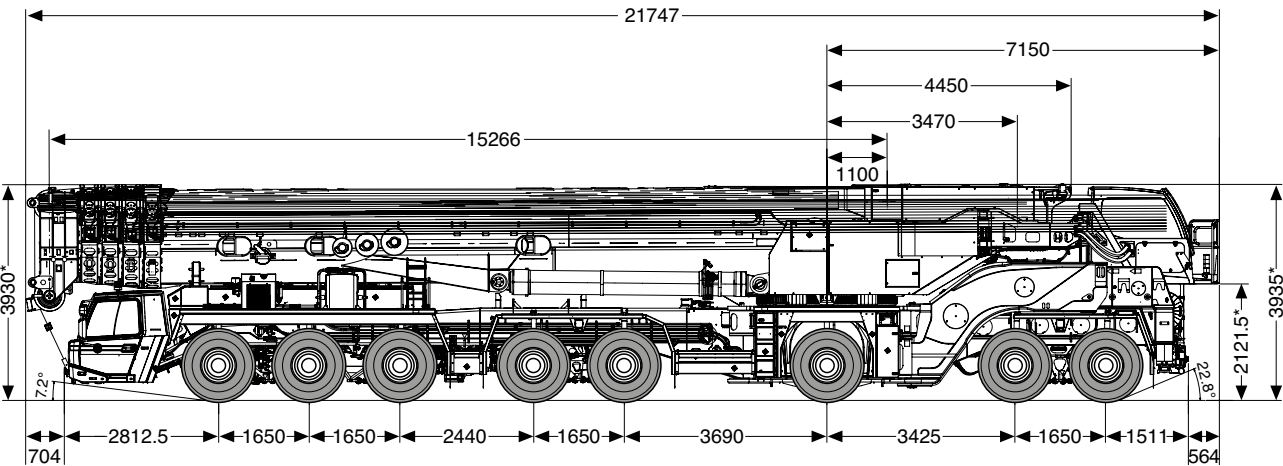
Boom systems · Auslegersysteme · Systèmes de flèche
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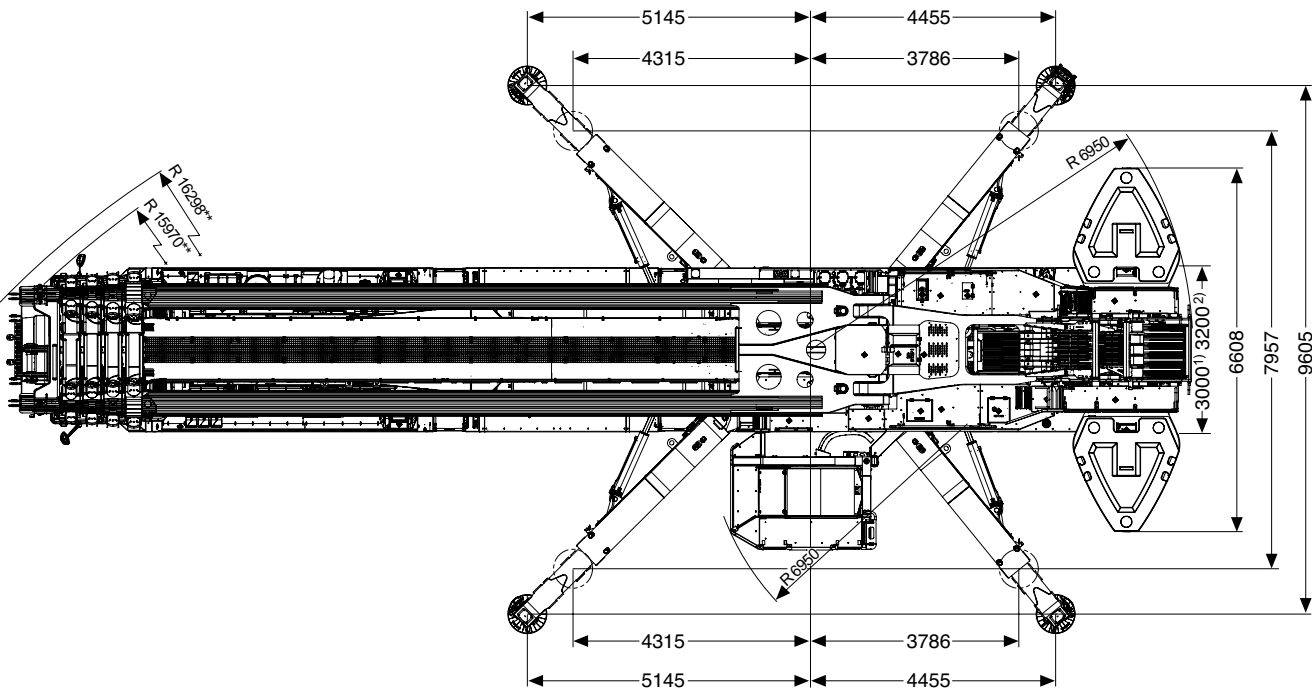


General · Allgemein · Généralités
 Generalidades · Generalità · Общие положения

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



* + 158
 - 118



** Minimum · minimum · mínimo · minimo · мінімальны

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

TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

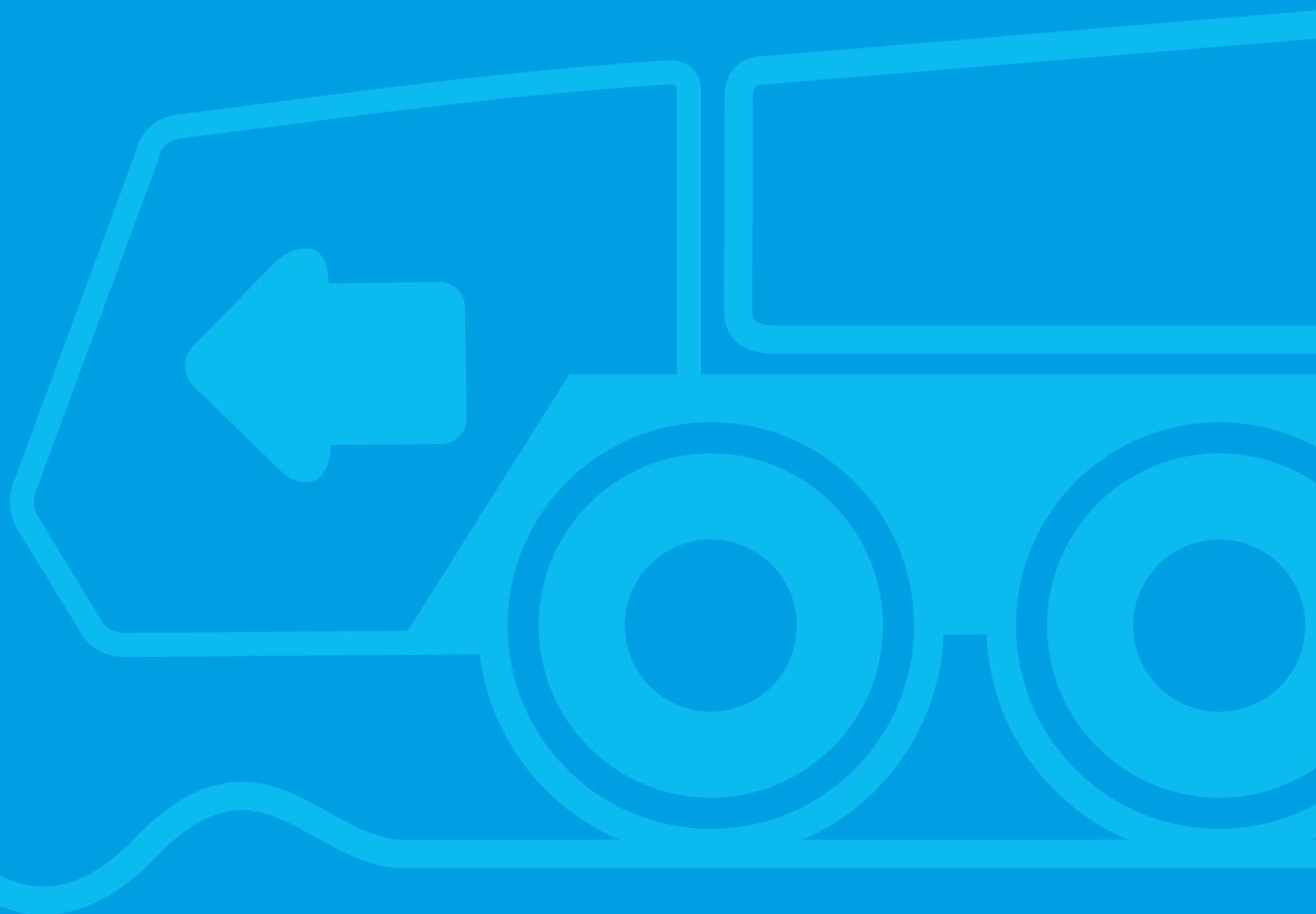
TECHNISCHE DATEN FÜR DIE STRASSEN- UND GELÄNDEFAHRT

CARACTÉRISTIQUES TECHNIQUES POUR MARCHÉ ROUTE ET TOUT TERRAIN

DATOS TÉCNICOS PARA SU TRASLADO POR CARRETERA Y TODO TERRENO


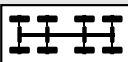

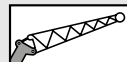

DATI TECNICI PER MARCIA SU STRADA E FUORI STRADA

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ ПРИ ДВИЖЕНИИ ПО ДОРОГАМ И БЕЗДОРОЖЬЮ








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

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



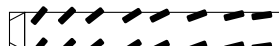
	TOTAL			TYPE		
≤ 12 t	96.0 t ***	16 x 8	385/95 R 25	-	-	0 t
≤ 16.5 t	103.5 t ****	16 x 8	385/95 R 25	-	-	0 t
max **	243.5 t	16 x 8	385/95 R 25	50	-	140.0 t

* 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
*** Front outriggers removed · Vordere Abstützung demontiert · Outrigger AV démonté · Estabilizadores delanteros desmontados · Stabilizzazione anteriore smontata · передние аутризеры демонтированы
**** With front and rear outriggers · Mit vorderer und hinterer Abstützung · Avec outriggers AV et AR · Con estabilizadores delanteros y traseros · Con stabilizzazione anteriore e posteriore
с передними и задними аутризерами

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

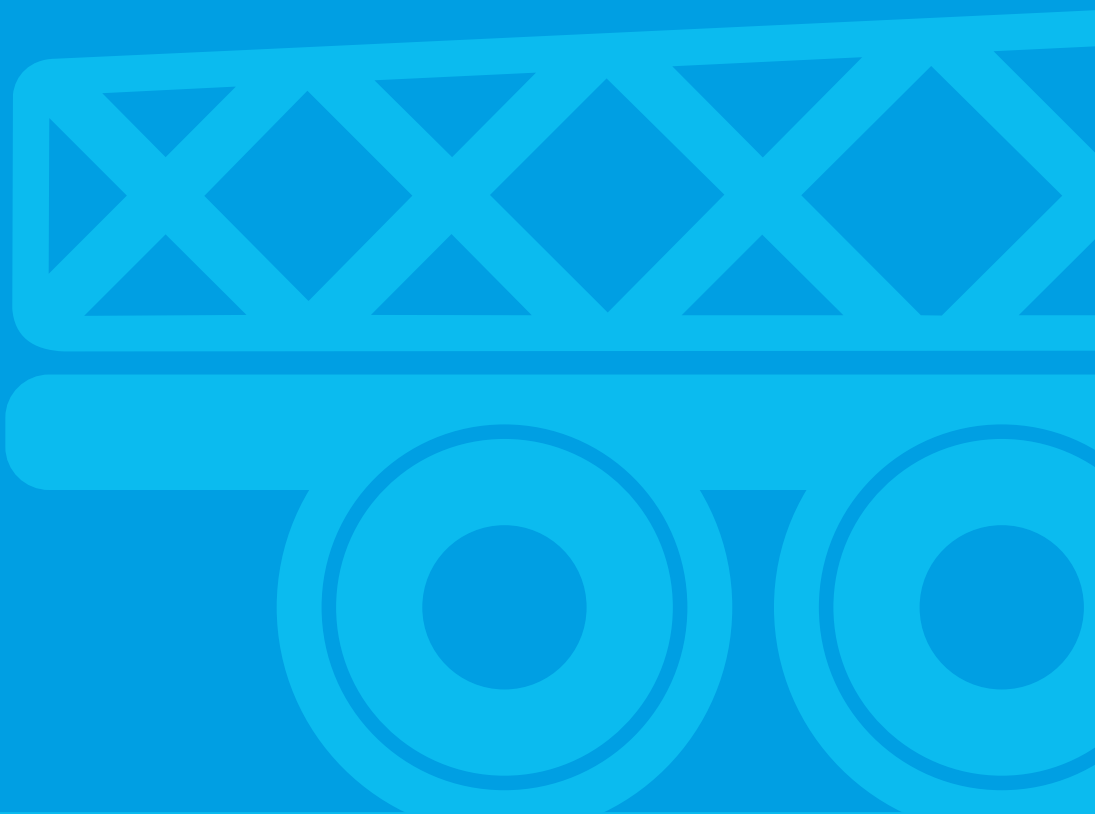
	 	 
385/95 R 25	85 km/h max.	46.3 %
445/95 R 25	85 km/h max.	41.7 %

Steering · Lenkung · Direction
Dirección · Sterzo · Рулевое управление

		v < 25 km/h
		v ≥ 25 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

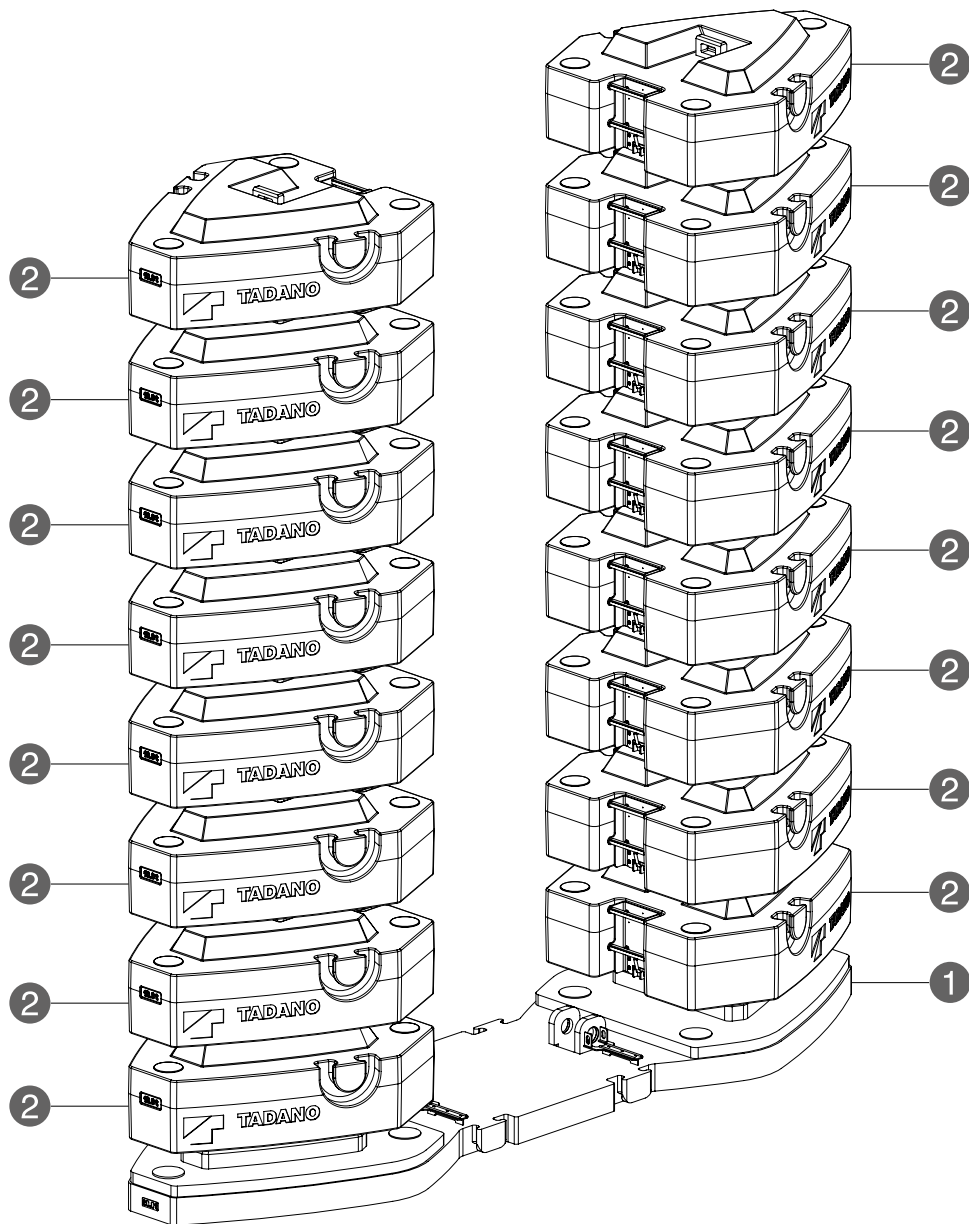
TECHNICAL DATA FOR TRANSPORT

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



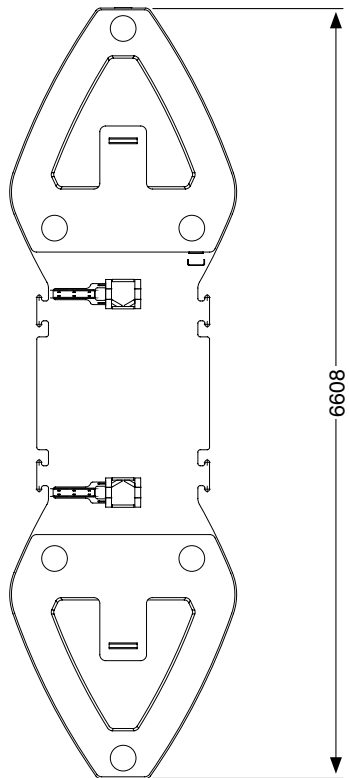
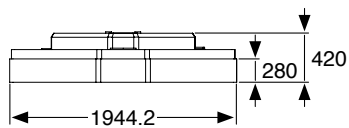
Transport · Transporte
 Trasporto · Транспортировка

Counterweight · Gegengewicht · Contrepoids
 Contrapeso · Contrappeso · Противовес

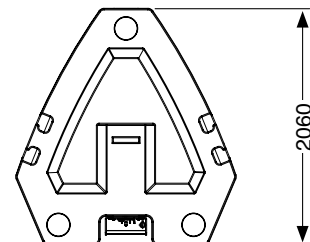
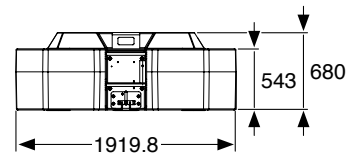


		20 t	40 t	60 t	80 t	100 t	120 t	140 t	160 t	180 t
①	20.0 t	1	1	1	1	1	1	1	1	1
②	10.0 t	-	2	4	6	8	10	12	14	16

1



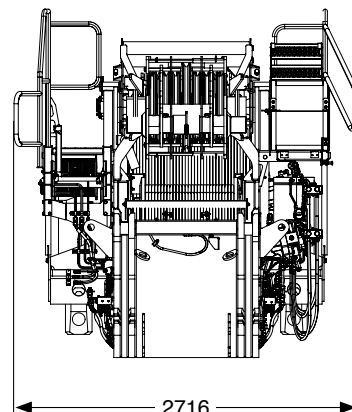
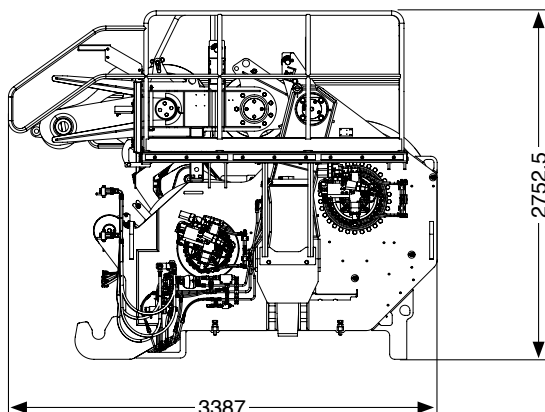
2



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






14263*

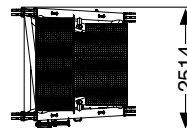
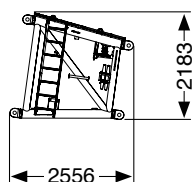


* with 2nd and 3rd winch, setup winch and pulley carrier · mit 2. und 3. Winde, Rüstwinde und Rollenträger · avec 2ème et 3ème treuil, treuil de montage et porte-poulie
con 2° y 3° cabrestante, cabrestante de montaje y portapoleas · con 2° e 3° argano, argano di riserva e portarullo · со 2-й и 3-й лебёdkами, монтажной лебёdkой и держателем роликов

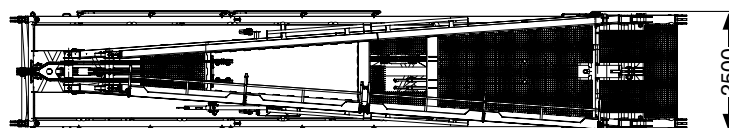
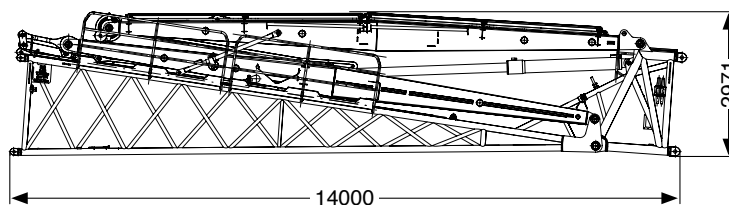
Jibs · Spitzen · Fléchettes
Plumines · Punte · гусек

	<div><div>m</div></div>	<div><div></div></div>
<div><div> 11.5 – 65.5 m</div><div> 11.5 – 65.5 m</div></div>	3 m + 8.5 m	1 + 13 + 5 + 8 + 12
	3 m + 14.5 m	1 + 13 + 5 + 8 + 11
	3 m + 20.5 m	1 + 13 + 5 + 6 + 8 + 11
	3 m + 26.5 m	1 + 13 + 3 + 5 + 8 + 11
	3 m + 32.5 m	1 + 13 + 3 + 5 + 6 + 8 + 11
	3 m + 38.5 m	1 + 13 + 3 + 5 + 7 + 8 + 11
	3 m + 44.5 m	1 + 13 + 3 + 5 + 6 + 7 + 8 + 11
	3 m + 50.5 m	1 + 13 + 3 + 5 + 6 + 7 + 8 + 9 + 11
	3 m + 56.5 m	1 + 13 + 3 + 5 + 6 + 7 + 8 + 10 + 11
<div> 28.1 – 94.1 m</div>	3 m + 62.5 m	1 + 13 + 3 + 5 + 6 + 7 + 8 + 9 + 10 + 11
	4.1 m + 24 m	1 + 2 + 5 + 6 + 8 + 12
	4.1 m + 30 m	1 + 2 + 3 + 5 + 8 + 12
	4.1 m + 36 m	1 + 2 + 3 + 5 + 6 + 8 + 12
	4.1 m + 42 m	1 + 2 + 3 + 5 + 7 + 8 + 12
	4.1 m + 48 m	1 + 2 + 3 + 5 + 7 + 8 + 11
	4.1 m + 54 m	1 + 2 + 3 + 4 + 5 + 6 + 8 + 11
	4.1 m + 60 m	1 + 2 + 3 + 4 + 5 + 7 + 8 + 11
	4.1 m + 66 m	1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 11
	4.1 m + 72 m	1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 11
	4.1 m + 78 m	1 + 2 + 3 + 4 + 5 + 6 + 6 + 7 + 8 + 9 + 11
	4.1 m + 84 m	1 + 2 + 3 + 4 + 5 + 6 + 6 + 7 + 8 + 10 + 11
	4.1 m + 90 m	1 + 2 + 3 + 4 + 5 + 6 + 6 + 7 + 8 + 9 + 10 + 11

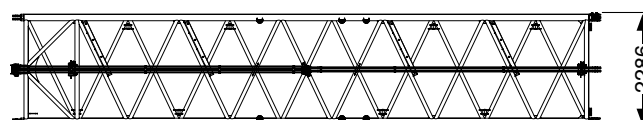
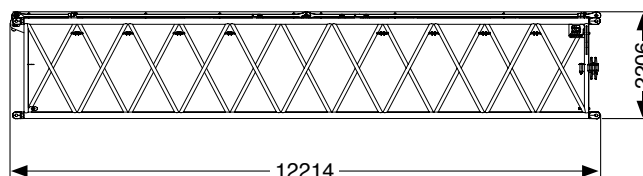
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2  10700



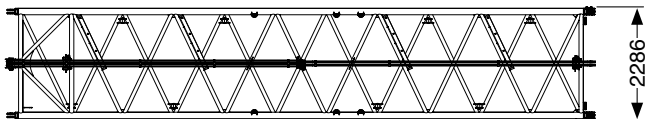
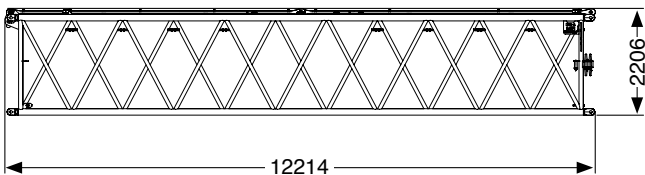
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4



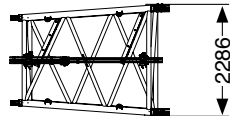
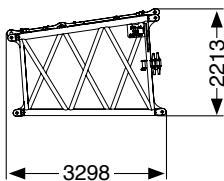
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5



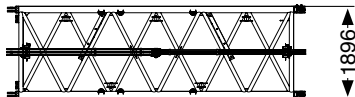
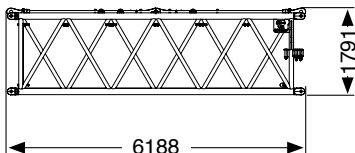
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6



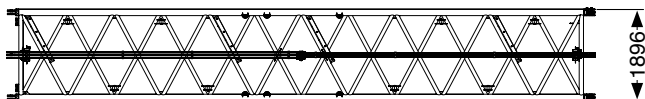
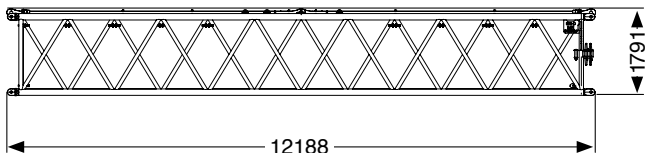
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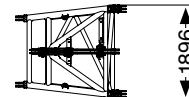
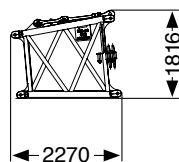
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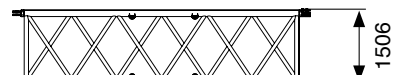
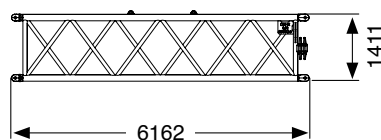
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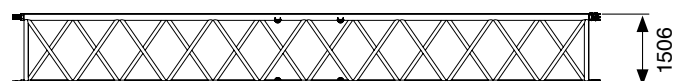
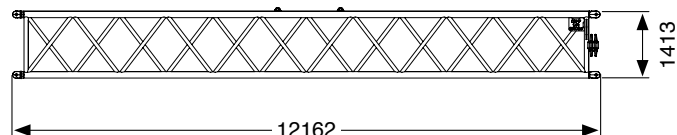
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972



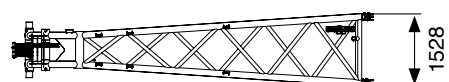
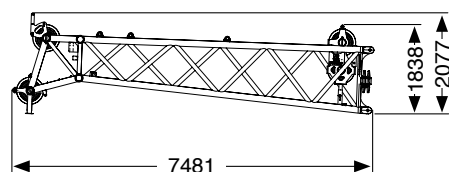
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10 
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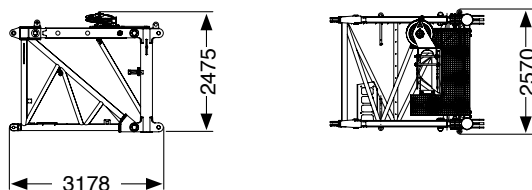
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1500



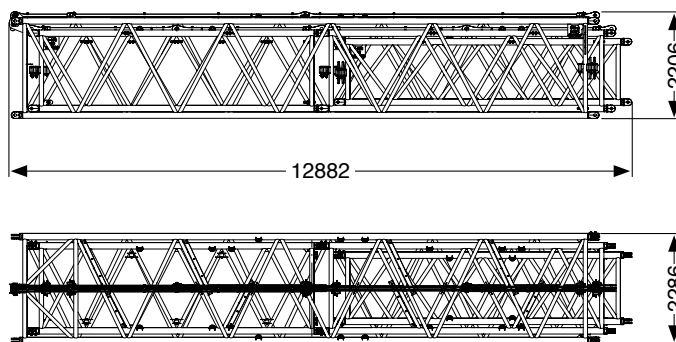
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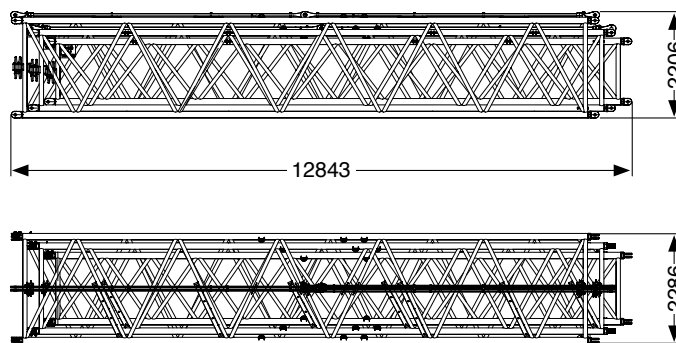
13 
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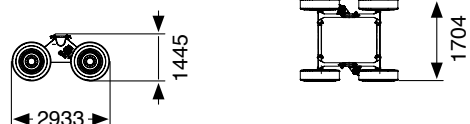
3 + 6 + 6 + 9 
6261



4 + 7 + 10 
6322



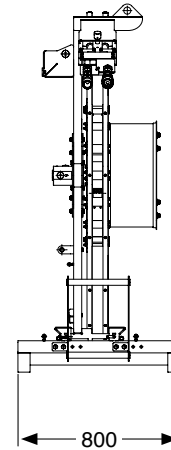
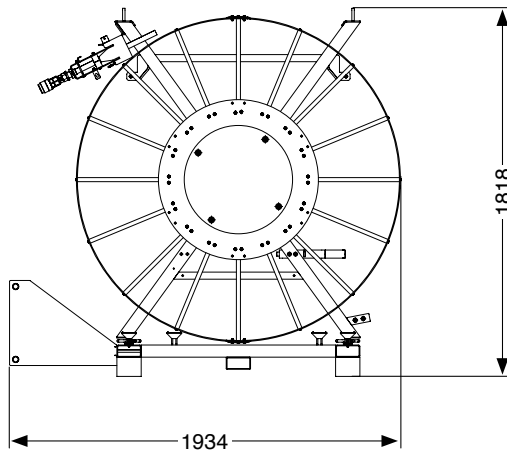

430



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



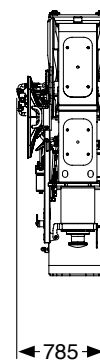
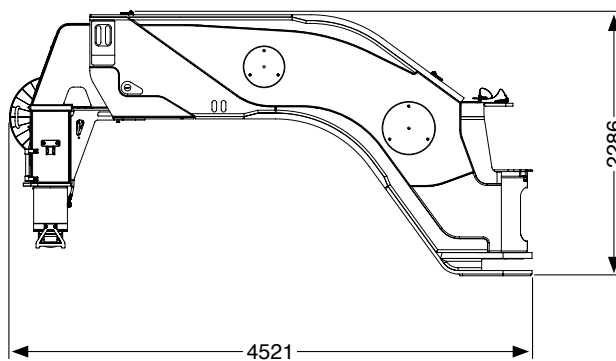
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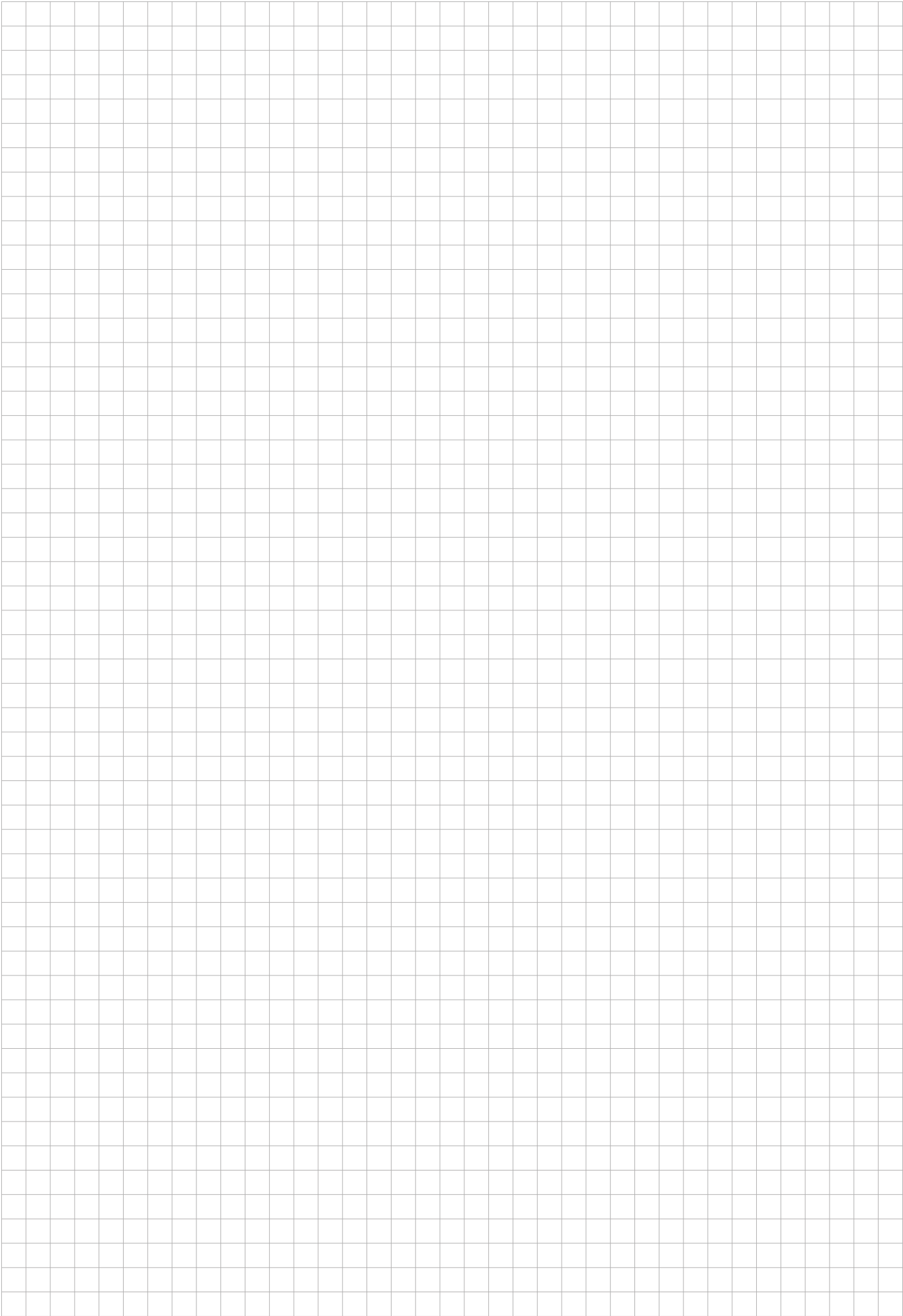


Outriggers · Abstützung · Calage
Estabilizadores · Stabilizzazione · На аутригерах



4030





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

	- 1.3° – 85°	~ 75 s
	15.3 m – 56 m	~ 700 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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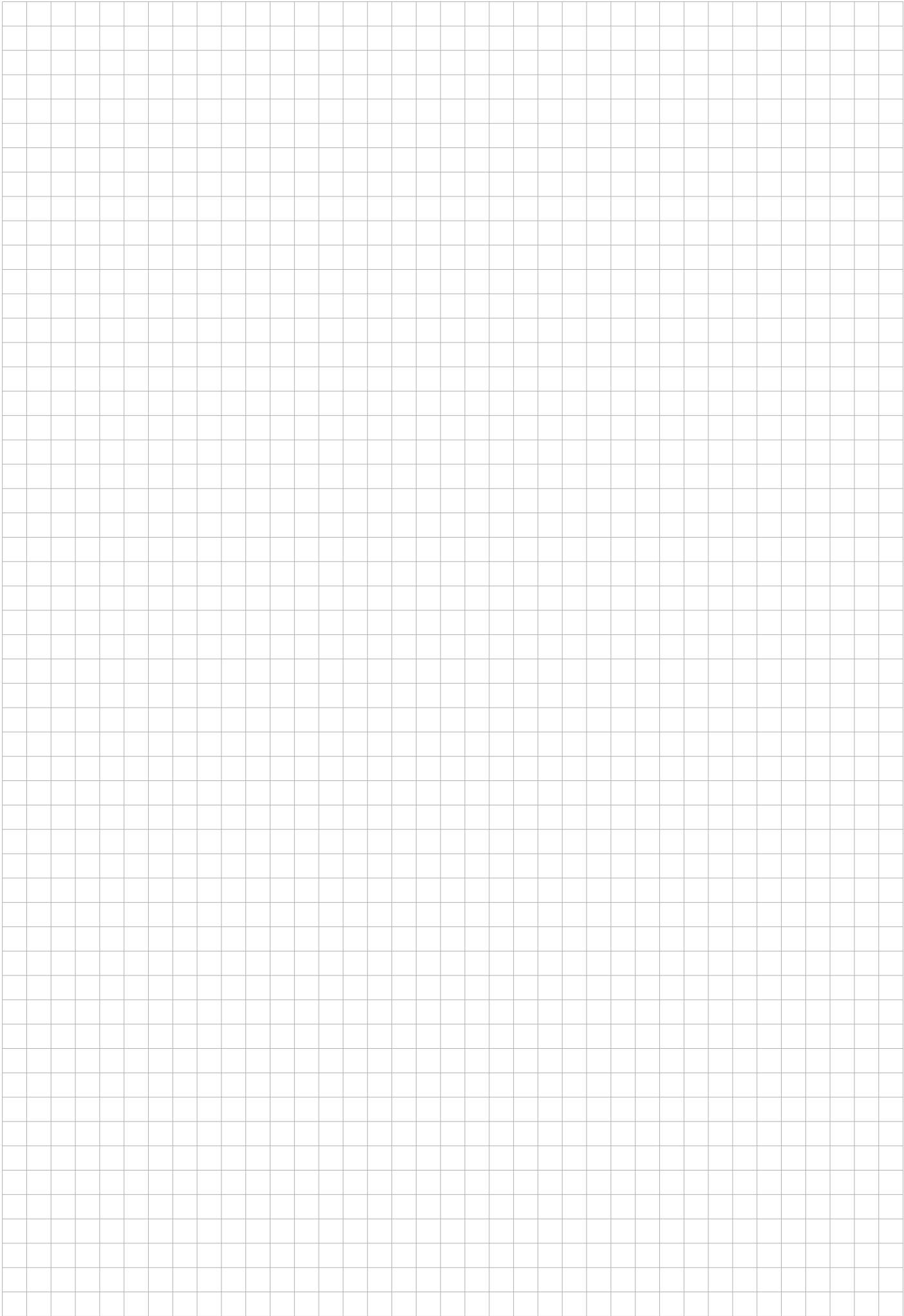
Winches · Hubwinden · Treuils Cabrestantes · Argani · Лебедка

			
	0 – 115 m/min	23 mm / 580 m	141
	0 – 115 m/min	23 mm / 1045 m	141
	0 – 115 m/min	23 mm / 580 m	141

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

 TYPE				
400*	355.1	13	27	4000
250*	250	9	19	2700
200*	200	7	15	2300
160*	151.6	5	11	2000
100*	97.6	3	7	1800
50	42.3	1	3	1300
16	14.3	0	1	500

* 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



15.3 – 56 m



9.6 m x 9.6 m

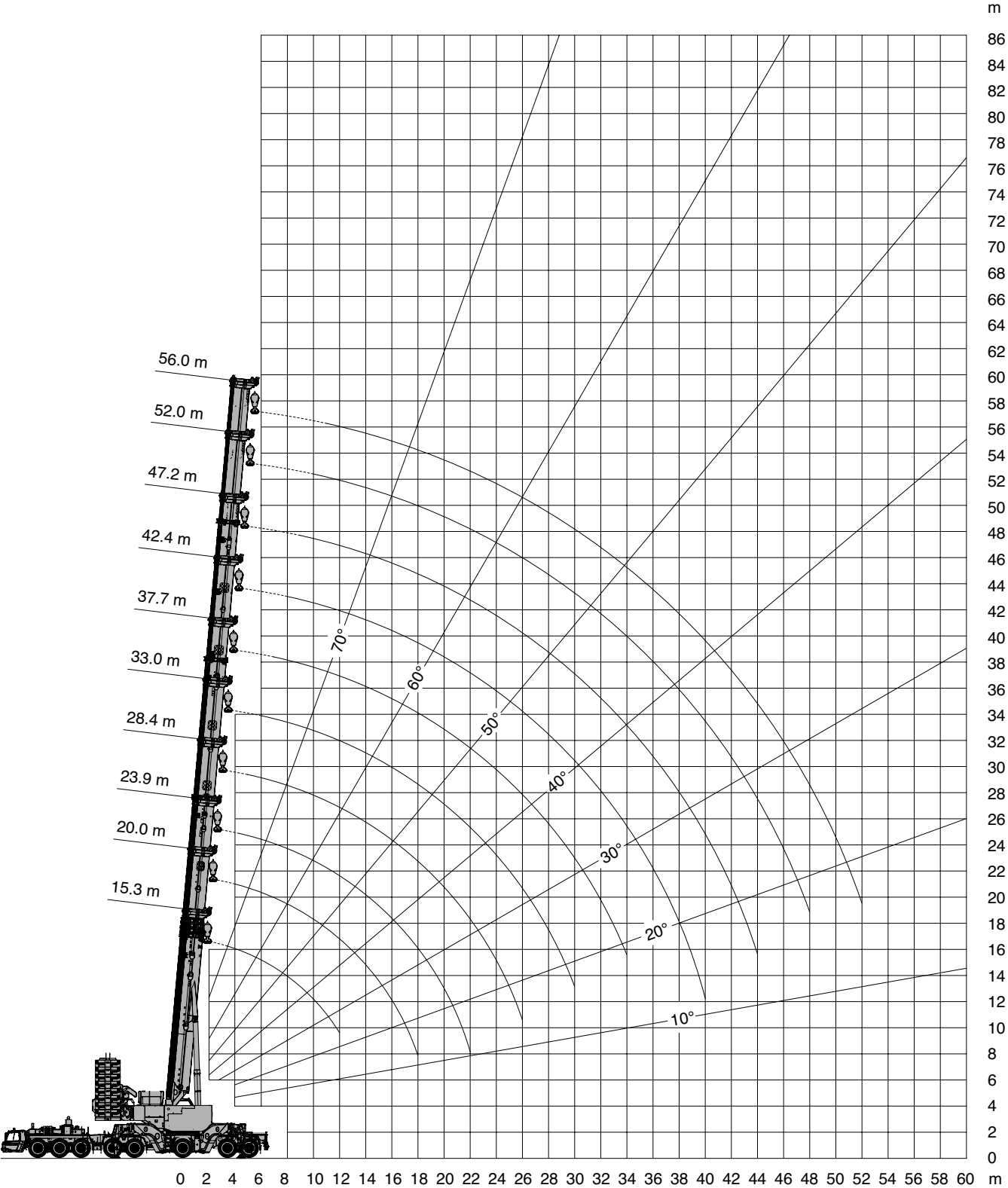


360°




180t


DIN/ISO/EN





 m	15.3 m*	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	600.0**	293.6									
4.0	482.0**	293.6	293.6								
4.5	466.0**	293.6	293.6	293.6							
5.0	432.0**	293.6	291.5	280.0	274.2						
6.0	357.0**	262.0	254.3	243.1	237.5	238.2					
7.0	299.0**	233.3	226.1	215.1	209.7	209.9	202.0				
8.0	256.0	210.2	203.7	193.1	187.9	187.8	180.6	177.9			
9.0	223.0	190.9	185.5	175.2	170.4	170.0	163.4	163.0	145.0		
10.0	198.0	174.1	170.3	160.5	155.8	155.3	149.2	150.9	138.5	122.5	
11.0	177.0	158.8	157.2	147.9	143.6	142.9	137.4	139.7	128.0	116.6	104.8
12.0	160.0	143.8	145.7	137.1	133.1	132.4	127.3	129.3	120.0	111.1	99.5
14.0			125.8	119.2	116.1	115.3	110.9	112.5	106.0	99.0	89.8
16.0			107.7	104.5	102.5	101.9	98.3	99.5	94.4	88.5	81.6
18.0			85.9	91.5	91.3	91.1	88.1	89.0	84.9	79.6	74.6
20.0				78.6	81.6	81.9	79.7	80.5	77.2	72.4	68.7
22.0				61.6	72.6	73.9	72.5	73.2	70.5	65.9	62.8
24.0					63.5	66.7	66.2	67.0	64.7	60.8	57.7
26.0					52.3	59.8	60.6	61.5	59.6	56.1	53.2
28.0						52.8	55.5	56.6	55.3	51.9	49.0
30.0						45.0	50.5	52.1	51.5	48.4	45.8
32.0							45.4	47.8	48.0	45.1	42.8
34.0							39.6	43.6	45.0	42.3	40.0
36.0								39.7	41.9	39.7	37.6
38.0								35.4	38.8	37.4	35.3
40.0								29.7	35.6	35.3	33.2
42.0									32.2	33.2	31.3
44.0									28.1	31.4	29.7
46.0										29.5	28.1
48.0										26.3	26.6
50.0											25.2
52.0											23.2




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6									
4.0	293.6	293.6								
4.5	293.6	293.6	293.6							
5.0	293.6	291.5	280.0	274.2						
6.0	262.0	254.3	243.1	237.5	238.2					
7.0	233.3	226.1	215.1	209.7	209.9	202.0				
8.0	210.2	203.7	193.1	187.9	187.8	180.6	177.9			
9.0	190.9	185.5	175.2	170.4	170.0	163.4	163.0	145.0		
10.0	174.1	170.3	160.5	155.8	155.3	149.2	150.9	138.5	122.5	
11.0	158.8	157.2	147.9	143.6	142.9	137.4	139.7	128.0	116.6	104.8
12.0	143.8	145.7	137.1	133.1	132.4	127.3	129.3	120.0	111.1	99.5
14.0		125.8	119.2	116.1	115.3	110.9	112.5	106.0	99.0	89.8
16.0		107.7	104.5	102.5	101.9	98.3	99.5	94.4	88.5	81.6
18.0		85.9	91.5	91.3	91.1	88.1	89.0	84.9	79.6	74.6
20.0			78.6	81.6	81.9	79.7	80.5	77.2	72.4	68.7
22.0			61.6	72.6	73.9	72.5	73.2	70.5	65.9	62.8
24.0				63.5	66.7	66.2	67.0	64.7	60.8	57.7
26.0				52.3	59.8	60.6	61.5	59.6	56.1	53.2
28.0					52.8	55.5	56.6	55.3	51.9	49.0
30.0					45.0	49.8	51.2	51.5	48.4	45.8
32.0						44.9	46.3	47.1	45.1	42.8
34.0						39.6	42.1	42.9	42.3	40.0
36.0							38.5	39.2	39.7	37.6
38.0							34.8	36.0	36.9	35.3
40.0							29.7	33.1	34.0	33.2
42.0								30.7	31.5	31.3
44.0								28.1	29.3	29.1
46.0									27.3	27.1
48.0									25.5	25.2
50.0										23.6
52.0										22.1

* 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




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6	293.6								
4.0	293.6	293.6								
4.5	293.6	293.6	293.6							
5.0	291.5	291.5	285.8	281.0						
6.0	256.1	254.3	248.6	243.8	240.1					
7.0	227.5	226.1	220.5	215.7	211.9	203.1				
8.0	204.0	203.7	198.4	193.6	189.8	186.4	177.9			
9.0	184.4	185.5	180.5	175.8	172.1	168.6	163.0	145.0		
10.0	167.8	169.6	165.6	161.1	157.4	154.0	150.9	138.5	122.5	
11.0	153.7	155.5	153.0	148.7	145.1	142.1	139.7	128.0	116.6	104.8
12.0	141.6	143.4	142.2	138.1	134.6	131.6	129.3	120.0	111.1	99.5
14.0		122.6	123.2	120.9	117.6	114.8	112.5	106.0	99.0	89.8
16.0		105.0	105.5	105.0	105.0	101.7	99.5	94.4	88.5	81.6
18.0		85.9	92.0	91.5	92.3	90.4	89.0	84.9	79.6	74.6
20.0			81.4	80.8	81.5	79.6	78.9	77.2	72.4	68.7
22.0			70.8	72.1	72.8	70.9	71.5	70.5	65.9	62.8
24.0				65.0	65.6	63.8	65.4	63.7	60.8	57.7
26.0				59.3	59.1	58.2	58.8	56.8	56.1	53.2
28.0					52.9	52.0	52.6	52.3	51.4	49.0
30.0					47.8	48.7	47.8	47.0	46.1	45.8
32.0					41.5	44.4	43.5	42.6	41.7	41.7
34.0						40.6	39.7	38.8	37.8	37.8
36.0						37.4	36.4	35.5	34.5	34.5
38.0							33.6	32.6	31.6	31.6
40.0							31.1	30.0	29.1	29.0
42.0							24.3	27.8	26.8	26.7
44.0								25.9	24.8	24.6
46.0								23.2	23.0	22.8
48.0									21.4	21.2
50.0										19.7
52.0										18.4




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6									
4.0	293.6	293.6								
4.5	293.6	293.6	293.6							
5.0	293.6	291.5	280.0	274.2						
6.0	260.9	254.3	243.1	237.5	238.2					
7.0	231.6	226.1	215.1	209.7	209.9	202.0				
8.0	207.5	203.7	193.1	187.9	187.8	180.6	177.9			
9.0	187.4	185.5	175.2	170.4	170.0	163.4	163.0	145.0		
10.0	170.5	170.3	160.5	155.8	155.3	149.2	150.9	138.5	122.5	
11.0	156.1	157.2	147.9	143.6	142.9	137.4	139.7	128.0	116.6	104.8
12.0	142.9	144.7	137.1	133.1	132.4	127.3	129.3	120.0	111.1	99.5
14.0		121.1	116.4	116.1	115.3	110.9	112.5	106.0	99.0	89.8
16.0		103.7	98.9	99.3	100.4	98.3	98.4	94.4	88.5	81.6
18.0		85.9	82.1	82.6	84.2	84.7	84.2	83.0	79.6	74.6
20.0			68.6	69.0	70.5	70.9	72.7	72.4	72.0	68.7
22.0			58.5	58.8	60.2	60.5	62.2	63.2	63.7	62.5
24.0				50.7	52.0	52.3	53.9	54.9	56.1	55.8
26.0				44.4	45.5	45.7	47.3	48.2	49.3	49.4
28.0					40.2	40.3	41.8	42.7	43.8	43.8
30.0					35.8	35.8	37.2	38.1	39.1	39.2
32.0						32.0	33.4	34.2	35.2	35.2
34.0						28.8	30.1	30.8	31.8	31.8
36.0							27.3	27.9	28.9	28.9
38.0							24.8	25.4	26.3	26.3
40.0							22.8	23.2	24.1	24.0
42.0								21.3	22.1	22.0
44.0								19.6	20.3	20.2
46.0									18.8	18.6
48.0									17.4	17.1
50.0										15.8
52.0										14.7




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6	293.6								
4.0	293.6	293.6								
4.5	293.6	293.6	293.6							
5.0	289.5	290.7	285.8	281.0						
6.0	253.5	254.3	248.6	243.8	240.1					
7.0	224.6	226.0	220.5	215.7	211.9	203.1				
8.0	200.9	202.4	198.4	193.6	189.8	186.4	177.9			
9.0	181.1	182.8	180.5	175.8	172.1	168.6	163.0	145.0		
10.0	164.5	166.3	165.6	161.1	157.4	154.0	150.9	138.5	122.5	
11.0	148.3	150.1	150.7	148.7	145.1	142.1	137.8	128.0	116.6	104.8
12.0	133.9	135.7	136.3	135.8	134.3	128.8	123.2	119.2	111.1	99.5
14.0		113.4	114.0	113.5	110.5	105.8	103.0	99.5	95.9	89.8
16.0		91.8	92.6	94.2	92.3	88.8	87.5	83.9	81.0	79.0
18.0		75.6	76.2	78.3	77.2	78.1	75.1	72.2	69.6	68.0
20.0			65.0	66.2	66.1	66.0	65.2	63.0	60.7	59.4
22.0			56.0	57.0	56.9	56.8	56.0	55.0	53.5	52.4
24.0				49.8	49.7	49.5	48.7	47.7	46.8	46.6
26.0				44.1	43.8	43.6	42.8	41.9	41.0	41.0
28.0					39.1	38.8	38.0	37.1	36.2	36.2
30.0					35.2	34.8	34.0	33.1	32.2	32.2
32.0					31.9	31.5	30.6	29.7	28.7	28.7
34.0						28.6	27.7	26.7	25.8	25.8
36.0						26.2	25.2	24.2	23.3	23.2
38.0							23.0	22.0	21.1	21.0
40.0							21.2	20.1	19.1	19.0
42.0							19.1	18.4	17.4	17.3
44.0								16.9	15.9	15.7
46.0								15.7	14.5	14.3
48.0									13.3	13.1
50.0										12.0
52.0										11.0




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6	293.6								
4.0	293.6	293.6								
4.5	293.6	293.6	293.6							
5.0	281.4	282.5	282.9	281.0						
6.0	245.8	247.1	247.6	243.8	240.1					
7.0	217.2	218.7	219.2	215.7	211.9	203.1				
8.0	193.8	195.4	196.0	193.6	189.8	186.4	177.8			
9.0	174.2	176.0	176.7	175.8	170.1	159.7	152.5	145.0		
10.0	154.9	156.7	157.3	154.3	145.4	139.6	132.0	127.7	122.0	
11.0	138.4	140.2	140.8	133.7	128.8	122.2	118.8	112.8	108.0	104.5
12.0	124.9	126.7	123.9	118.7	113.9	111.0	105.9	100.8	96.7	93.7
14.0		96.0	97.0	97.1	93.5	90.3	86.4	82.5	79.3	77.1
16.0		75.8	77.4	78.9	78.0	75.5	72.4	69.3	66.6	64.9
18.0		62.1	63.4	64.8	64.7	64.6	61.9	59.3	56.9	55.6
20.0			53.3	54.5	54.4	54.3	53.5	51.4	49.4	48.2
22.0			45.7	46.7	46.6	46.5	45.7	44.7	43.2	42.3
24.0				40.6	40.5	40.3	39.5	38.5	37.7	37.4
26.0				35.8	35.5	35.3	34.5	33.6	32.7	32.7
28.0					31.5	31.2	30.4	29.5	28.6	28.6
30.0					28.2	27.9	27.0	26.1	25.2	25.2
32.0					25.5	25.0	24.1	23.2	22.3	22.3
34.0						22.6	21.7	20.7	19.8	19.8
36.0						20.6	19.6	18.6	17.7	17.6
38.0							17.7	16.7	15.8	15.7
40.0							16.2	15.1	14.1	14.0
42.0							14.4	13.7	12.7	12.6
44.0								12.5	11.4	11.2
46.0								11.5	10.3	10.1
48.0									9.3	9.0
50.0										8.1
52.0										7.3

Operation · Einsatz · Utilisation
Uso · Эксплуатация




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6	293.6								
4.0	293.6	293.6								
4.5	293.6	293.6	293.6							
5.0	272.7	273.9	274.3	273.8						
6.0	237.5	238.9	239.3	238.9	238.4					
7.0	209.3	210.8	211.3	210.9	204.6	188.6				
8.0	185.7	187.4	188.0	177.9	164.9	155.8	147.2			
9.0	163.0	164.9	157.3	147.9	139.7	133.9	125.9	118.2		
10.0	143.9	139.3	132.9	127.7	121.0	115.2	108.9	102.7	97.8	
11.0	119.4	119.0	114.4	110.7	105.4	100.8	95.6	90.5	86.3	83.4
12.0	99.6	102.8	100.0	97.3	93.1	89.4	84.9	80.6	77.0	74.5
14.0		76.4	78.1	77.9	74.9	72.2	68.9	65.5	62.6	60.8
16.0		59.8	61.4	62.9	62.1	60.1	57.3	54.6	52.2	50.8
18.0		48.6	49.9	51.3	51.3	51.0	48.7	46.3	44.2	43.1
20.0			41.6	42.8	42.8	42.6	41.8	39.9	38.0	37.1
22.0			35.4	36.4	36.3	36.2	35.4	34.4	33.0	32.1
24.0				31.4	31.3	31.1	30.3	29.4	28.5	28.1
26.0				27.5	27.2	27.0	26.2	25.3	24.4	24.4
28.0					23.9	23.7	22.9	21.9	21.0	21.0
30.0					21.2	20.9	20.1	19.1	18.2	18.2
32.0					19.0	18.5	17.7	16.7	15.8	15.8
34.0						16.6	15.7	14.7	13.8	13.8
36.0						14.9	13.9	13.0	12.0	12.0
38.0							12.5	11.4	10.5	10.4
40.0							11.2	10.1	9.2	9.1
42.0							9.7	9.0	8.0	7.9
44.0								8.0	6.9	6.8
46.0								7.2	6.0	5.8
48.0									5.2	5.0
50.0										4.2
52.0										3.6

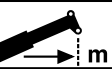


 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6	293.6								
4.0	293.6	293.6								
4.5	284.3	285.4	285.8							
5.0	263.5	264.7	265.1	264.6						
6.0	228.6	230.1	230.6	230.1	206.8					
7.0	199.8	201.5	190.3	174.0	160.3	150.3				
8.0	171.2	159.3	148.6	140.3	130.5	122.4	113.9			
9.0	134.9	127.7	121.0	115.6	108.6	102.7	96.1	89.9		
10.0	110.4	105.9	101.4	97.8	92.5	88.0	82.8	77.7	73.6	
11.0	89.8	89.9	86.8	84.4	80.2	76.7	72.3	68.1	64.6	62.3
12.0	74.3	77.5	75.6	73.9	70.5	67.6	63.9	60.3	57.2	55.3
14.0		56.8	58.6	58.5	56.2	54.1	51.3	48.4	45.9	44.5
16.0		43.8	45.4	47.0	46.1	44.6	42.2	39.9	37.7	36.6
18.0		35.1	36.4	37.8	37.8	37.4	35.4	33.4	31.5	30.6
20.0			29.9	31.2	31.1	31.0	30.1	28.3	26.6	25.8
22.0			25.1	26.1	26.0	25.9	25.1	24.1	22.6	22.0
24.0				22.2	22.1	21.9	21.1	20.2	19.3	18.8
26.0				19.2	18.9	18.7	17.9	17.0	16.1	16.1
28.0					16.3	16.1	15.3	14.3	13.4	13.5
30.0					14.2	13.9	13.1	12.1	11.2	11.3
32.0					12.5	12.1	11.2	10.3	9.4	9.4
34.0						10.6	9.7	8.7	7.8	7.8
36.0						9.3	8.3	7.3	6.4	6.4
38.0							7.2	6.2	5.2	5.2
40.0							6.2	5.2	4.2	4.1
42.0							5.0	4.3	3.3	3.2
44.0								3.5	2.5	2.3
46.0								3.0		



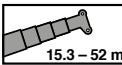
 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6	293.6								
4.0	293.6	293.6								
4.5	274.2	275.4	275.8							
5.0	253.6	254.9	255.3	254.9						
6.0	217.9	212.3	187.2	169.2	151.2					
7.0	161.4	147.2	134.9	125.6	114.9	106.2				
8.0	118.3	111.2	104.3	98.9	91.8	85.9	79.3			
9.0	92.1	88.3	84.1	80.9	75.8	71.5	66.4	61.5		
10.0	74.4	72.4	69.9	67.9	64.1	60.7	56.7	52.6	49.4	
11.0	60.2	60.8	59.3	58.1	55.1	52.5	49.0	45.6	42.8	41.1
12.0	49.0	52.0	51.1	50.4	48.0	45.9	42.9	40.0	37.4	36.0
14.0		37.3	39.1	39.2	37.5	36.0	33.7	31.3	29.2	28.2
16.0		27.9	29.5	31.0	30.2	29.0	27.1	25.1	23.3	22.5
18.0		21.7	23.0	24.4	24.3	23.8	22.1	20.4	18.7	18.1
20.0			18.3	19.5	19.5	19.3	18.3	16.7	15.2	14.6
22.0			14.9	15.9	15.8	15.6	14.9	13.7	12.3	11.8
24.0				13.0	12.9	12.7	12.0	11.0	9.9	9.5
26.0				10.9	10.6	10.4	9.6	8.7	7.8	7.5
28.0					8.7	8.5	7.7	6.8	5.9	5.9
30.0					7.3	6.9	6.1	5.2	4.3	4.3
32.0					6.1	5.6	4.8	3.8	2.9	2.9
34.0						4.6	3.7	2.7		
36.0						3.7	2.7			




 m	15.3 m	20.0 m	23.9 m	28.4 m	33.0 m	37.7 m	42.4 m	47.2 m	52.0 m	56.0 m
3.5	293.6									
4.0	286.7	287.9								
4.5	263.4	264.7	261.3							
5.0	241.7	234.0	191.7	168.0						
6.0	142.8	125.9	97.0	85.8	78.8					
7.0	91.6	85.4	65.7	59.9	56.7	52.4				
8.0	65.2	63.0	47.6	44.2	42.8	40.1	39.4			
9.0	49.1	48.7	35.7	33.7	33.3	31.4	31.5	30.7		
10.0	38.2	38.9	27.4	26.1	26.3	25.0	25.5	25.2	25.2	
11.0	30.5	31.7	21.2	20.4	20.9	20.0	20.8	20.8	21.1	20.0
12.0	23.6	26.2	16.4	15.9	16.7	16.1	17.1	17.3	17.7	16.8
14.0		17.7	9.5	9.5	10.6	10.3	11.5	11.9	12.6	11.9
16.0		11.9	4.8	5.0	6.2	6.1	7.5	8.0	8.9	8.3
18.0		8.1			3.0	3.0	4.5	5.1	6.0	5.6
20.0							2.2		3.8	

Operation · Einsatz · Utilisation
Uso · Эксплуатация


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



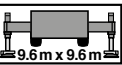
15.3 – 52 m




11.5 – 65.5 m




HYDRO
11.5 – 65.5 m




9.6 m x 9.6 m



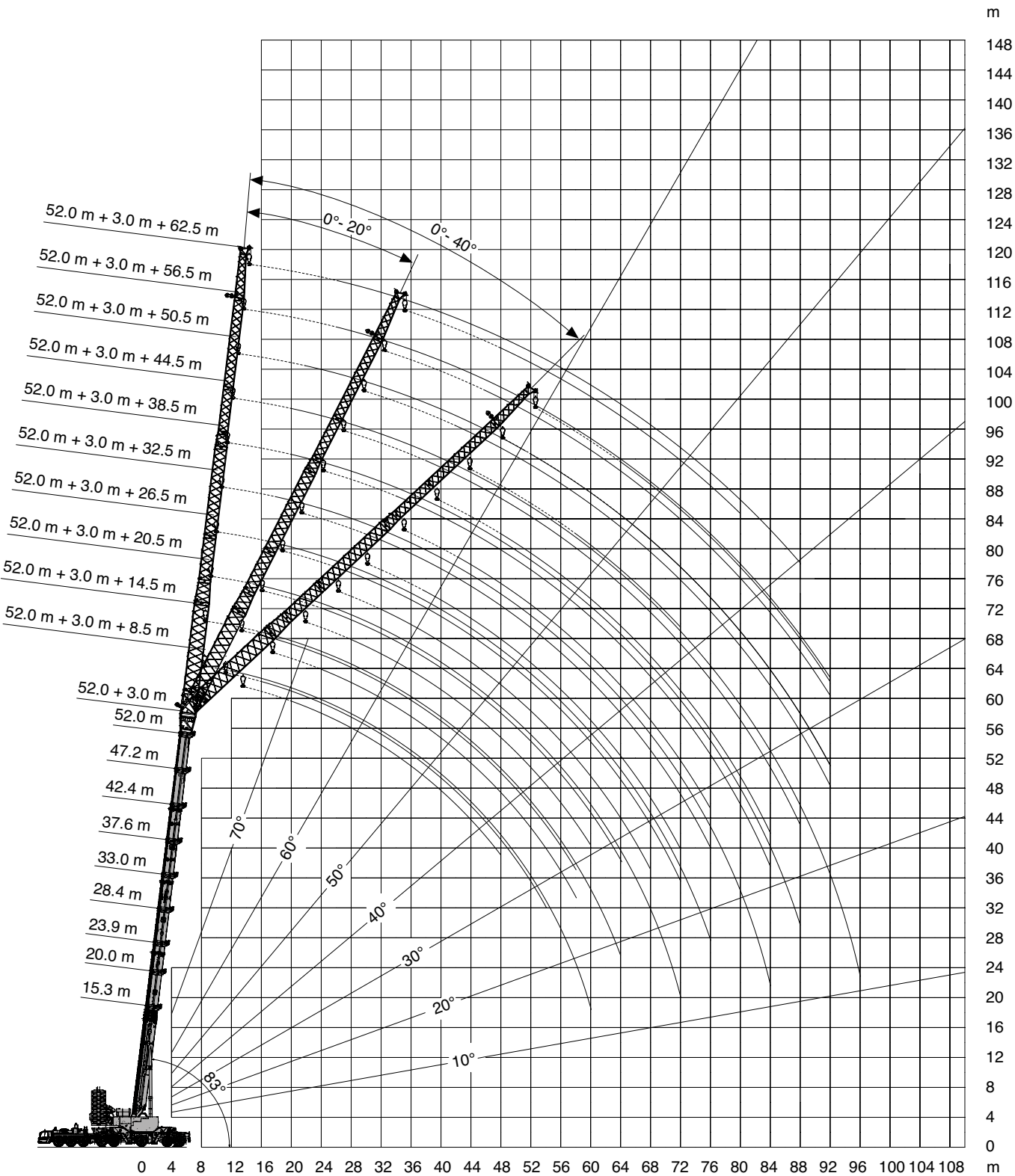
360°

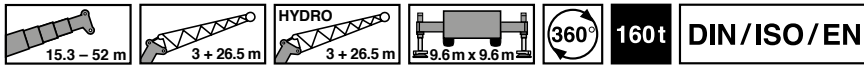


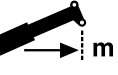
160t

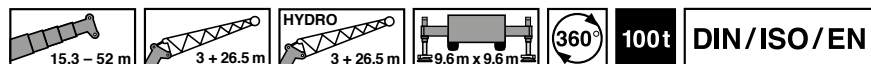



DIN/ISO/EN

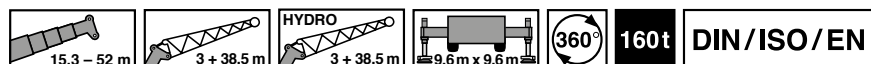





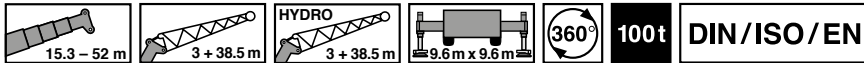
 m	15.3 m + 3.0 m + 26.5 m			42.4 m + 3.0 m + 26.5 m			47.2 m + 3.0 m + 26.5 m			52.0 m + 3.0 m + 26.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
7.0	85.8											
8.0	79.4											
9.0	69.9											
10.0	62.2											
12.0	50.6											
14.0	42.6			59.8			53.9					
16.0	36.3	27.3		54.3			52.3					
18.0	31.9	24.4		48.7			48.4			42.9		
20.0	28.2	22.3		43.8			44.0			39.5		
22.0	25.2	20.4		39.7	25.0		40.3	24.6		36.0		
24.0	22.7	18.7	16.1	36.3	23.4		37.1	23.4		33.6		
26.0	20.6	17.2	14.8	33.2	22.1		34.2	22.2		31.2	22.2	
28.0	18.7	16.2	14.1	30.7	20.9		31.9	21.1		28.9	21.0	
30.0	17.2	15.2	13.3	28.5	19.8	15.3	29.6	20.1	15.3	26.9	20.0	
32.0	15.9	13.9	12.5	26.6	18.9	14.7	27.7	19.2	14.8	25.1	19.2	14.6
34.0	14.6	13.1	12.1	24.9	18.0	14.2	25.8	18.4	14.3	23.5	18.4	14.2
36.0	13.6	12.4	11.5	23.3	17.2	13.7	24.2	17.6	13.9	22.0	17.6	13.7
38.0	12.6	11.7	10.9	21.9	16.6	13.3	22.6	16.8	13.5	20.6	17.0	13.3
40.0	11.8	11.1		20.6	16.0	12.9	21.3	16.1	13.1	19.4	16.3	13.0
42.0	11.1			19.5	15.2	12.6	20.1	15.5	12.8	18.3	15.8	12.7
44.0				18.6	14.4	12.2	19.0	15.0	12.5	17.2	15.3	12.7
46.0				17.7	14.0	11.8	18.0	14.6	12.1	16.2	14.9	12.4
48.0				16.8	13.5	11.5	17.0	14.0	11.8	15.3	14.1	12.0
50.0				16.0	13.1	11.3	16.1	13.4	11.5	14.4	13.5	11.7
52.0				15.2	12.7	11.1	15.3	13.0	11.2	13.6	12.9	11.5
54.0				14.4	12.3	11.0	14.6	12.6	11.0	12.9	12.3	11.3
56.0				13.8	11.9	10.8	13.9	12.3	10.9	12.3	11.7	11.1
58.0				13.2	11.5	10.6	13.2	12.0	10.8	11.7	11.1	10.9
60.0				12.8	11.1	10.5	12.6	11.6	10.7	11.1	10.6	10.4
64.0				11.8			11.4	10.7	10.6	9.9	9.7	9.6
68.0				10.8			10.2			9.0	8.8	8.7
72.0							9.2			8.2	7.9	
76.0										7.3		




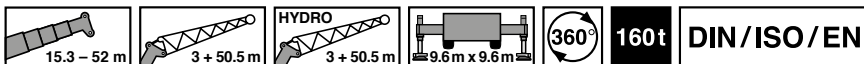
 m	15.3 m + 3.0 m + 26.5 m			42.4 m + 3.0 m + 26.5 m			47.2 m + 3.0 m + 26.5 m			52.0 m + 3.0 m + 26.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
7.0	85.8											
8.0	79.4											
9.0	69.9											
10.0	62.2											
12.0	50.6											
14.0	42.6			59.8			53.9					
16.0	36.3	27.3		54.3			52.3					
18.0	31.9	24.4		48.7			48.4			42.9		
20.0	28.2	22.3		43.8			44.0			39.5		
22.0	25.2	20.4		39.7	25.0		40.3	24.6		36.0		
24.0	22.7	18.7	16.1	36.3	23.4		37.1	23.4		33.6		
26.0	20.6	17.2	14.8	33.2	22.1		34.2	22.2		31.2	22.2	
28.0	18.7	16.2	14.1	30.7	20.9		31.9	21.1		28.9	21.0	
30.0	17.2	15.2	13.3	28.5	19.8	15.3	29.6	20.1	15.3	26.9	20.0	
32.0	15.9	13.9	12.5	26.6	18.9	14.7	27.7	19.2	14.8	25.1	19.2	14.6
34.0	14.6	13.1	12.1	24.9	18.0	14.2	25.4	18.4	14.3	23.5	18.4	14.2
36.0	13.6	12.4	11.5	22.6	17.2	13.7	22.8	17.6	13.9	22.0	17.6	13.7
38.0	12.6	11.7	10.9	20.3	16.6	13.3	20.4	16.8	13.5	20.5	17.0	13.3
40.0	11.8	11.1		18.2	16.0	12.9	18.3	16.1	13.1	18.4	16.3	13.0
42.0	11.1			16.3	15.2	12.6	16.5	15.5	12.8	16.6	15.8	12.7
44.0				14.7	14.4	12.2	14.8	15.0	12.5	14.9	15.3	12.7
46.0				13.2	14.0	11.8	13.3	14.6	12.1	13.4	14.9	12.4
48.0				11.8	13.5	11.5	12.0	14.0	11.8	12.1	14.1	12.0
50.0				10.6	12.6	11.3	10.7	12.9	11.5	10.8	13.1	11.7
52.0				9.5	11.4	11.1	9.6	11.6	11.2	9.7	11.8	11.5
54.0				8.5	10.2	11.0	8.6	10.4	11.0	8.7	10.6	11.3
56.0				7.6	9.1	9.9	7.7	9.3	10.1	7.8	9.6	10.5
58.0				6.7	8.1	8.8	6.8	8.3	9.3	6.9	8.6	9.7
60.0				5.9	7.1	7.7	6.0	7.4	8.2	6.1	7.6	8.6
64.0				4.5			4.6	5.7	6.3	4.7	6.0	6.7
68.0				3.4			3.4			3.5	4.5	5.0
72.0							2.4			2.4	3.2	




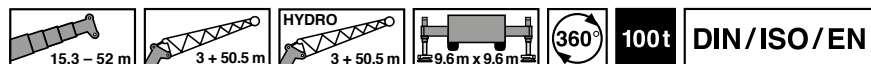
 m	15.3 m + 3.0 m + 38.5 m			42.4 m + 3.0 m + 38.5 m			47.2 m + 3.0 m + 38.5 m			52.0 m + 3.0 m + 38.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	60.5											
10.0	54.0											
12.0	44.0											
14.0	36.8											
16.0	31.5											
18.0	27.4			38.0			35.0					
20.0	24.2			35.2			33.4			31.7		
22.0	21.6	17.0		31.8			31.7			30.3		
24.0	19.4	15.5		28.9			29.1			27.9		
26.0	17.6	14.4		26.3			27.0			26.0		
28.0	16.1	13.4		24.3			24.8			23.9		
30.0	14.7	12.2		22.3	14.5		23.0	14.8		22.5		
32.0	13.4	11.5		20.8	13.7		21.3	13.8		20.9		
34.0	12.4	10.6	9.2	19.4	13.2		20.0	13.1		19.6	13.1	
36.0	11.5	9.9	8.6	18.1	12.5		18.8	12.5		18.5	12.5	
38.0	10.6	9.3	8.1	16.8	11.8		17.6	11.8		17.3	11.8	
40.0	9.7	8.6	7.7	15.8	11.2	8.6	16.3	11.4	8.7	16.3	11.3	
42.0	9.1	8.2	7.5	14.9	10.7	8.3	15.4	11.1	8.4	15.5	10.9	8.3
44.0	8.5	7.6	7.0	14.0	10.3	8.0	14.4	10.6	8.1	14.6	10.6	7.9
46.0	7.9	7.3	6.7	13.2	9.9	7.7	13.7	10.2	7.9	13.7	10.2	7.8
48.0	7.6	7.1	6.2	12.4	9.5	7.5	13.1	9.7	7.7	13.1	9.8	7.6
50.0	7.1	6.6	6.0	11.8	9.1	7.3	12.5	9.3	7.6	12.4	9.4	7.2
52.0	6.6			11.3	8.8	7.1	11.8	9.0	7.3	11.7	9.0	7.1
54.0	6.2			10.8	8.5	7.0	11.2	8.7	7.1	11.0	8.7	7.1
56.0				10.3	8.1	6.7	10.7	8.4	7.0	10.4	8.4	6.8
58.0				9.9	7.8	6.5	10.2	8.1	6.9	9.8	8.1	6.5
60.0				9.4	7.5	6.4	9.8	7.8	6.6	9.3	7.9	6.4
64.0				8.3	7.0	6.2	9.0	7.3	6.3	8.3	7.4	6.0
68.0				7.7	6.5	6.1	8.0	6.8	6.1	7.3	6.9	6.0
72.0				7.2	6.1	5.9	7.2	6.4	6.0	6.7	6.4	5.7
76.0				6.7			6.5	6.0	5.8	6.0	5.8	5.7
80.0							6.0			5.2	5.2	
84.0							5.2			4.7	4.7	
88.0										4.1		




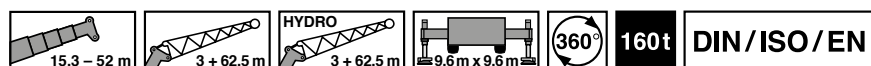
 m	15.3 m + 3.0 m + 38.5 m			42.4 m + 3.0 m + 38.5 m			47.2 m + 3.0 m + 38.5 m			52.0 m + 3.0 m + 38.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.0	60.5											
10.0	54.0											
12.0	44.0											
14.0	36.8											
16.0	31.5											
18.0	27.4			38.0			35.0					
20.0	24.2			35.2			33.4			31.7		
22.0	21.6	17.0		31.8			31.7			30.3		
24.0	19.4	15.5		28.9			29.1			27.9		
26.0	17.6	14.4		26.3			27.0			26.0		
28.0	16.1	13.4		24.3			24.8			23.9		
30.0	14.7	12.2		22.3	14.5		23.0	14.8		22.5		
32.0	13.4	11.5		20.8	13.7		21.3	13.8		20.9		
34.0	12.4	10.6	9.2	19.4	13.2		20.0	13.1		19.6	13.1	
36.0	11.5	9.9	8.6	18.1	12.5		18.8	12.5		18.5	12.5	
38.0	10.6	9.3	8.1	16.8	11.8		17.6	11.8		17.3	11.8	
40.0	9.7	8.6	7.7	15.8	11.2	8.6	16.3	11.4	8.7	16.3	11.3	
42.0	9.1	8.2	7.5	14.9	10.7	8.3	15.4	11.1	8.4	15.5	10.9	8.3
44.0	8.5	7.6	7.0	14.0	10.3	8.0	14.4	10.6	8.1	14.6	10.6	7.9
46.0	7.9	7.3	6.7	13.2	9.9	7.7	13.7	10.2	7.9	13.7	10.2	7.8
48.0	7.6	7.1	6.2	12.4	9.5	7.5	12.8	9.7	7.7	12.8	9.8	7.6
50.0	7.1	6.6	6.0	11.3	9.1	7.3	11.5	9.3	7.6	11.5	9.4	7.2
52.0	6.6			10.2	8.8	7.1	10.4	9.0	7.3	10.4	9.0	7.1
54.0	6.2			9.2	8.5	7.0	9.3	8.7	7.1	9.3	8.7	7.1
56.0				8.2	8.1	6.7	8.4	8.4	7.0	8.4	8.4	6.8
58.0				7.3	7.8	6.5	7.5	8.1	6.9	7.5	8.1	6.5
60.0				6.5	7.5	6.4	6.7	7.8	6.6	6.7	7.9	6.4
64.0				5.1	6.9	6.2	5.2	7.0	6.3	5.2	7.1	6.0
68.0				3.8	5.4	6.1	3.9	5.5	6.1	3.9	5.6	6.0
72.0				2.7	4.0	4.8	2.8	4.2	5.2	2.8	4.3	5.4
76.0								2.9	3.6		3.1	4.0
80.0											2.0	




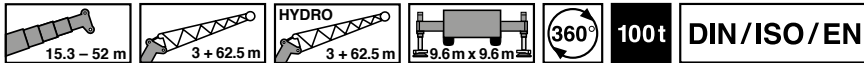
 m	15.3 m + 3.0 m + 50.5 m			42.4 m + 3.0 m + 50.5 m			47.2 m + 3.0 m + 50.5 m			52.0 m + 3.0 m + 50.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	39.9											
14.0	33.4											
16.0	28.5											
18.0	24.7											
20.0	21.8											
22.0	19.4			25.7			24.1			22.4		
24.0	17.3			23.6			23.5			22.0		
26.0	15.5			21.6			21.8			20.7		
28.0	14.1	11.3		19.8			20.1			19.4		
30.0	12.8	10.4		18.3			18.7			18.0		
32.0	11.7	9.5		16.9			17.3			17.0		
34.0	10.7	8.7		15.6			16.1			16.3		
36.0	9.7	8.2		14.5	9.5		15.0	9.7		15.2		
38.0	9.0	7.5		13.6	9.1		14.0	9.1		14.1		
40.0	8.3	7.0		12.7	8.6		13.1	8.7		13.3		
42.0	7.7	6.5		11.9	8.0		12.2	8.2		12.5	8.3	
44.0	7.1	6.1	5.2	11.2	7.7		11.5	7.7		11.7	7.9	
46.0	6.5	5.6	4.8	10.5	7.4		10.9	7.2		11.0	7.6	
48.0	6.0	5.3	4.6	9.8	6.9	5.1	10.2	6.9		10.4	7.3	
50.0	5.6	5.0	4.3	9.2	6.4	4.9	9.7	6.7	4.9	9.8	6.8	
52.0	5.2	4.6	4.0	8.7	6.2	4.8	9.2	6.3	4.8	9.3	6.5	
54.0	4.8	4.3	3.8	8.2	6.0	4.7	8.7	6.0	4.7	8.8	6.2	
56.0	4.5	4.0	3.5	7.8	5.6	4.5	8.2	5.7	4.5	8.3	5.9	
58.0	4.1	3.7	3.2	7.4	5.3	4.3	7.7	5.5	4.4	7.8	5.7	3.4
60.0	3.8	3.4	2.9	7.0	5.0	4.1	7.3	5.3	4.2	7.4	5.4	3.2
64.0	3.2			6.2	4.7	3.6	6.6	4.8	3.9	6.4	4.9	2.8
68.0				5.6	4.1	3.3	5.9	4.4	3.5	5.5	4.6	2.5
72.0				5.0	3.9	3.0	5.4	4.1	3.2	4.8	4.4	2.2
76.0				4.5	3.6	2.8	4.8	3.7	3.0	4.2	3.9	
80.0				4.0	3.3	2.8	4.3	3.4	2.9	3.7	3.6	
84.0				3.6	3.0	2.8	3.9	3.2	2.9	3.2	3.1	
88.0							3.4	3.0	2.6	2.6	2.7	
92.0							2.9			2.1	2.2	
96.0							2.5					




 m	15.3 m + 3.0 m + 50.5 m			42.4 m + 3.0 m + 50.5 m			47.2 m + 3.0 m + 50.5 m			52.0 m + 3.0 m + 50.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	39.9											
14.0	33.4											
16.0	28.5											
18.0	24.7											
20.0	21.8											
22.0	19.4			25.7			24.1			22.4		
24.0	17.3			23.6			23.5			22.0		
26.0	15.5			21.6			21.8			20.7		
28.0	14.1	11.3		19.8			20.1			19.4		
30.0	12.8	10.4		18.3			18.7			18.0		
32.0	11.7	9.5		16.9			17.3			17.0		
34.0	10.7	8.7		15.6			16.1			16.3		
36.0	9.7	8.2		14.5	9.5		15.0	9.7		15.2		
38.0	9.0	7.5		13.6	9.1		14.0	9.1		14.1		
40.0	8.3	7.0		12.7	8.6		13.1	8.7		13.3		
42.0	7.7	6.5		11.9	8.0		12.2	8.2		12.5	8.3	
44.0	7.1	6.1	5.2	11.2	7.7		11.5	7.7		11.7	7.9	
46.0	6.5	5.6	4.8	10.5	7.4		10.9	7.2		11.0	7.6	
48.0	6.0	5.3	4.6	9.8	6.9	5.1	10.2	6.9		10.4	7.3	
50.0	5.6	5.0	4.3	9.2	6.4	4.9	9.7	6.7	4.9	9.8	6.8	
52.0	5.2	4.6	4.0	8.7	6.2	4.8	9.2	6.3	4.8	9.3	6.5	
54.0	4.8	4.3	3.8	8.2	6.0	4.7	8.7	6.0	4.7	8.8	6.2	
56.0	4.5	4.0	3.5	7.8	5.6	4.5	8.1	5.7	4.5	8.2	5.9	
58.0	4.1	3.7	3.2	7.4	5.3	4.3	7.6	5.5	4.4	7.6	5.7	3.4
60.0	3.8	3.4	2.9	6.9	5.0	4.1	6.8	5.3	4.2	6.7	5.4	3.2
64.0	3.2			5.4	4.7	3.6	5.3	4.8	3.9	5.2	4.9	2.8
68.0				4.1	4.1	3.3	4.0	4.4	3.5	3.9	4.6	2.5
72.0				3.0	3.9	3.0	2.9	4.1	3.2	2.8	4.4	2.2
76.0				2.0	3.6	2.8	1.9	3.7	3.0		3.8	
80.0					2.5	2.8		2.6	2.9		2.6	
84.0						2.1			2.4			



 m	15.3 m + 3.0 m + 62.5 m			42.4 m + 3.0 m + 62.5 m			47.2 m + 3.0 m + 62.5 m			52.0 m + 3.0 m + 62.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	31.3											
16.0	26.7											
18.0	23.1											
20.0	20.3											
22.0	17.9											
24.0	16.0			19.4			18.6					
26.0	14.3			18.1			18.4			14.9		
28.0	12.9			16.8			17.7			14.8		
30.0	11.7			15.6			16.3			14.4		
32.0	10.6			14.4			15.0			13.6		
34.0	9.6			13.4			14.0			13.0		
36.0	8.8	7.2		12.3			12.9			12.3		
38.0	8.1	6.6		11.5			12.1			11.2		
40.0	7.4	6.1		10.7			11.2			10.2		
42.0	6.8	5.6		10.0			10.4			9.5		
44.0	6.2	5.1		9.3	6.2		9.8	6.1		8.9		
46.0	5.6	4.8		8.7	5.7		9.1	5.8		8.4		
48.0	5.1	4.4		8.1	5.5		8.6	5.5		7.9	5.3	
50.0	4.7	4.0		7.6	5.3		8.0	5.2		7.4	5.0	
52.0	4.3	3.7		7.1	4.9		7.5	4.9		6.9	4.7	
54.0	4.0	3.4	2.7	6.7	4.5		7.1	4.6		6.5	4.5	
56.0	3.6	3.1	2.4	6.3	4.2		6.7	4.3		6.1	4.2	
58.0	3.3	2.8	2.2	5.9	3.9		6.3	4.1		5.8	4.0	
60.0	3.0	2.5	2.0	5.5	3.7	2.6	5.9	3.9	2.6	5.5	3.8	
64.0	2.5	2.1		4.9	3.3	2.3	5.2	3.5	2.3	4.9	3.4	2.3
68.0	2.0			4.1	2.9	2.0	4.6	3.1	2.1	4.4	3.0	2.0
72.0				3.7	2.6		4.1	2.8		3.9	2.7	
76.0				3.3	2.3		3.6	2.5		3.4	2.4	
80.0				2.9	2.0		3.2	2.2		2.9	2.2	
84.0				2.5			2.8	2.0		2.5		
88.0				2.1			2.5			2.0		
92.0							2.1					

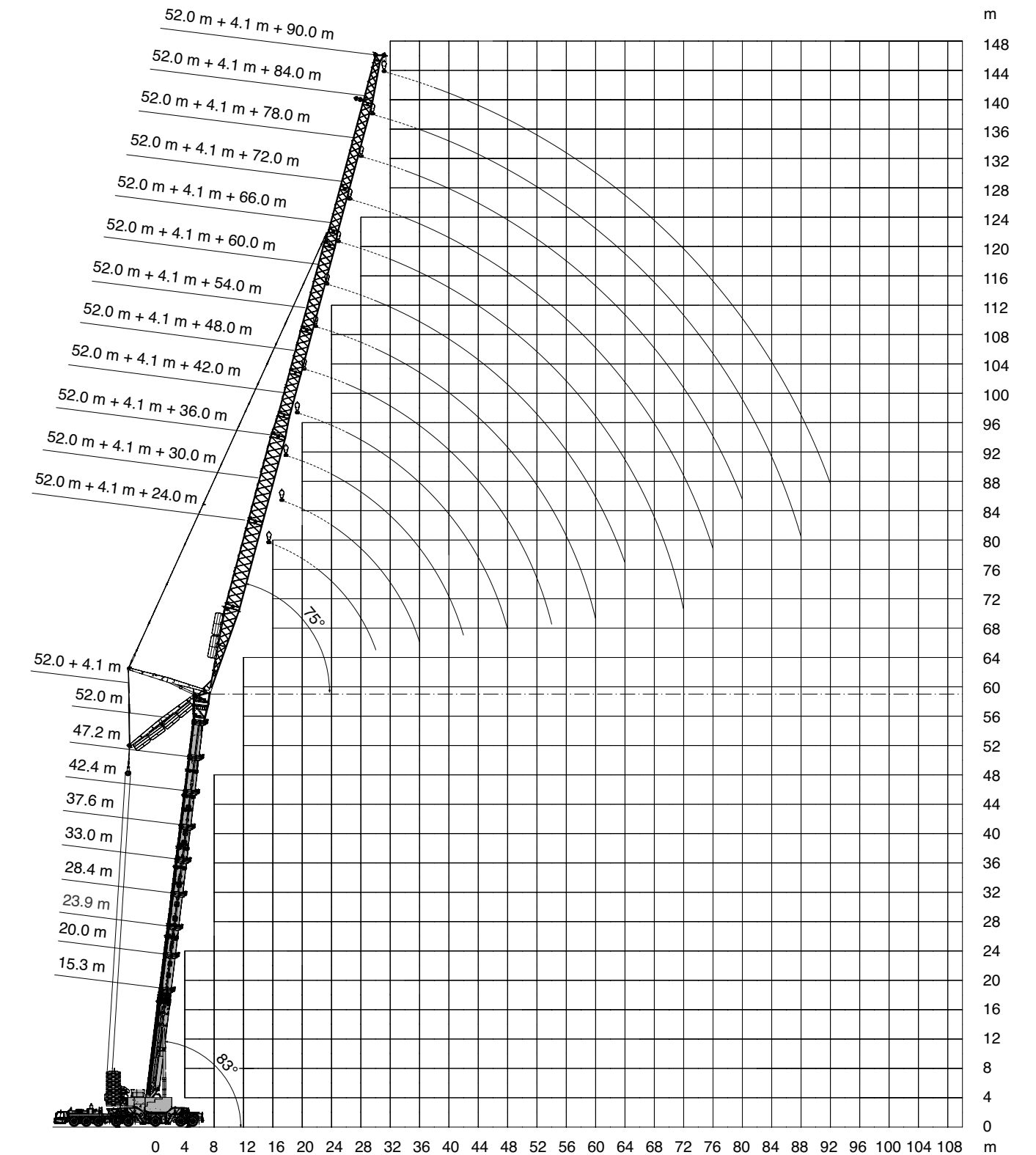


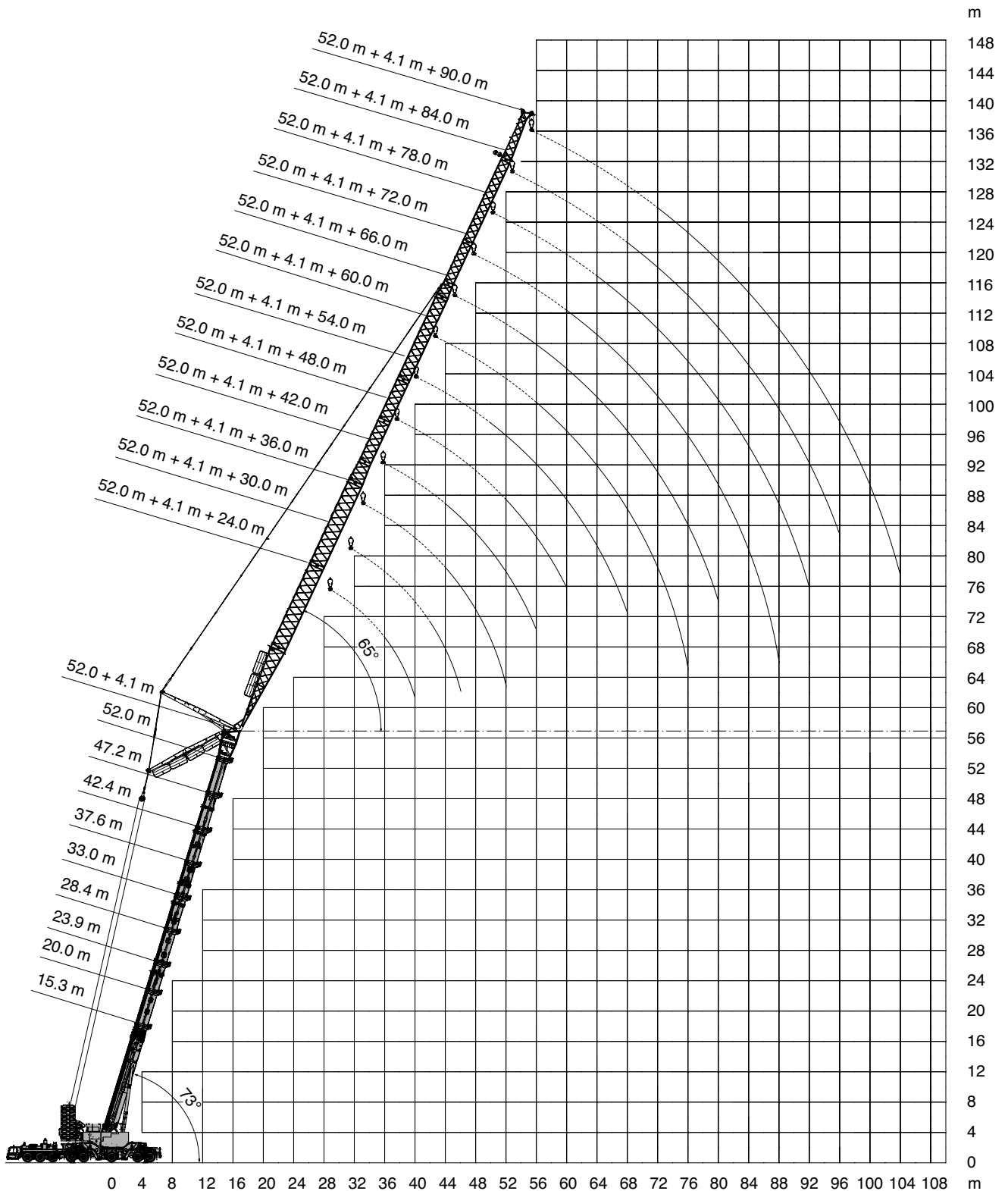
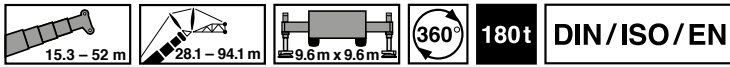
 m	15.3 m + 3.0 m + 62.5 m			42.4 m + 3.0 m + 62.5 m			47.2 m + 3.0 m + 62.5 m			52.0 m + 3.0 m + 62.5 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	31.3											
16.0	26.7											
18.0	23.1											
20.0	20.3											
22.0	17.9											
24.0	16.0			19.4			18.6					
26.0	14.3			18.1			18.4			14.9		
28.0	12.9			16.8			17.7			14.8		
30.0	11.7			15.6			16.3			14.4		
32.0	10.6			14.4			15.0			13.6		
34.0	9.6			13.4			14.0			13.0		
36.0	8.8	7.2		12.3			12.9			12.3		
38.0	8.1	6.6		11.5			12.1			11.2		
40.0	7.4	6.1		10.7			11.2			10.2		
42.0	6.8	5.6		10.0			10.4			9.5		
44.0	6.2	5.1		9.3	6.2		9.8	6.1		8.9		
46.0	5.6	4.8		8.7	5.7		9.1	5.8		8.4		
48.0	5.1	4.4		8.1	5.5		8.6	5.5		7.9	5.3	
50.0	4.7	4.0		7.6	5.3		8.0	5.2		7.4	5.0	
52.0	4.3	3.7		7.1	4.9		7.5	4.9		6.9	4.7	
54.0	4.0	3.4	2.7	6.7	4.5		7.1	4.6		6.5	4.5	
56.0	3.6	3.1	2.4	6.3	4.2		6.7	4.3		6.1	4.2	
58.0	3.3	2.8	2.2	5.9	3.9		6.3	4.1		5.8	4.0	
60.0	3.0	2.5	2.0	5.5	3.7	2.6	5.9	3.9	2.6	5.5	3.8	
64.0	2.5	2.1		4.9	3.3	2.3	5.2	3.5	2.3	4.9	3.4	2.3
68.0	2.0			4.1	2.9	2.0	4.2	3.1	2.1	4.0	3.0	2.0
72.0				3.2	2.6		3.0	2.8		2.9	2.7	
76.0				2.2	2.3		2.0	2.5			2.4	
80.0					2.0			2.2			2.2	
84.0								2.0				

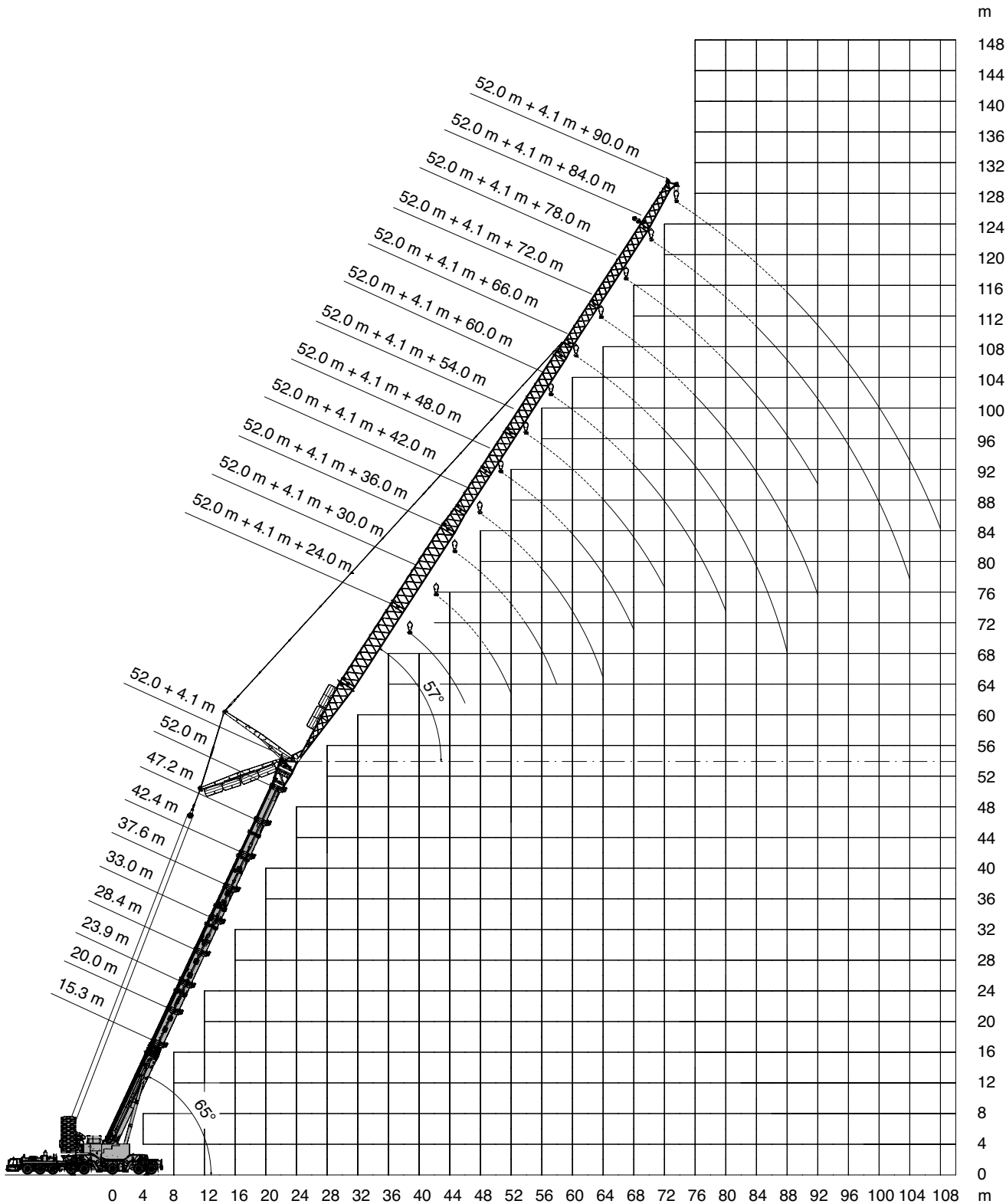
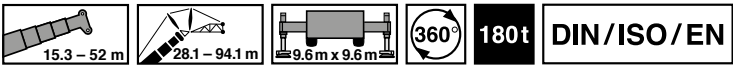
Operation · Einsatz · Utilisation
 Uso · Эксплуатация

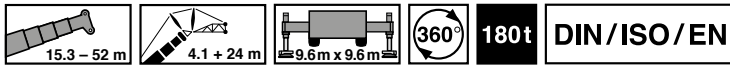
Working range · Arbeitsbereich · Rayon de travail
 Zona de trabajo · Area di lavoro · Рабочая зона

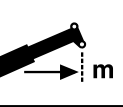
DIN/ISO/EN

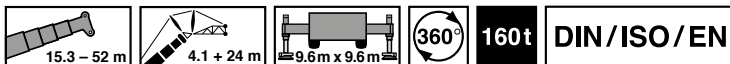


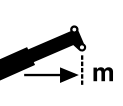


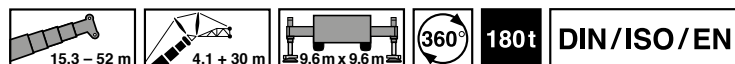





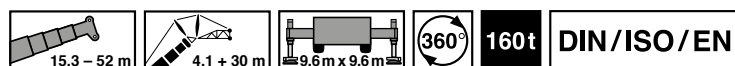
 m	15.3 m + 4.1 m + 24.0 m			23.9 m + 4.1 m + 24.0 m			33.0 m + 4.1 m + 24.0 m			42.4 m + 4.1 m + 24.0 m			52.0 m + 4.1 m + 24.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
16.0				114.8			109.4								
18.0				103.7			107.9								
20.0		88.5		95.4			98.4			84.0					
22.0		81.7		89.1			88.7			77.7			54.9		
24.0		76.6		82.1	71.9		80.7			72.8			52.4		
26.0		72.9	68.4	74.8	67.3		73.9			68.5			50.2		
28.0		68.5	64.6		63.7		68.1	61.3		64.4			48.2		
30.0			61.9		60.6	54.8		58.0					45.5		
32.0					56.4	52.0		54.1			49.7				
34.0						49.9		50.5	44.0		47.2				
36.0									43.5		45.1			33.7	
38.0									40.7					32.7	
40.0												35.3		31.7	
42.0												33.0			




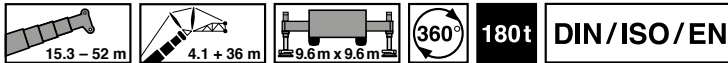
 m	15.3 m + 4.1 m + 24.0 m			23.9 m + 4.1 m + 24.0 m			33.0 m + 4.1 m + 24.0 m			42.4 m + 4.1 m + 24.0 m			52.0 m + 4.1 m + 24.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
14.0	125.6														
16.0	112.4			114.8			109.4								
18.0	102.2			103.7			104.5								
20.0	95.1	88.5		94.8			93.2			84.0					
22.0	87.1	81.7		85.5			84.0			77.7			54.9		
24.0	77.2	76.6		77.7	71.9		76.3			72.8			52.4		
26.0	59.2	70.3	68.4	71.2	66.9		69.9			68.5			50.2		
28.0		64.8	63.0		61.6		64.4	59.0		63.3			48.2		
30.0			58.4		56.9	53.3		53.9					45.5		
32.0					52.3	48.9		49.4			47.0				
34.0						45.1		45.6	41.3		43.3				
36.0									38.2		40.1			33.7	
38.0									35.5					32.7	
40.0												30.4		31.7	
42.0												28.4			




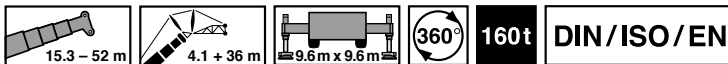
 m	15.3 m + 4.1 m + 30.0 m			23.9 m + 4.1 m + 30.0 m			33.0 m + 4.1 m + 30.0 m			42.4 m + 4.1 m + 30.0 m			52.0 m + 4.1 m + 30.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
16.0	112.9														
18.0	101.3			105.3			97.6								
20.0	92.4			95.5			97.3								
22.0	85.4	82.1		87.6			87.7			74.9					
24.0	80.0	75.7		81.1			79.7			71.0			48.0		
26.0	75.9	70.5		74.3	67.8		72.9			66.5			46.0		
28.0	69.9	66.3	64.3	68.4	63.2		67.2			62.5			44.2		
30.0	63.3	62.6	60.1	63.4	59.3		62.2	57.0		59.0			42.5		
32.0		58.3	56.6	59.0	55.4	52.2	57.9	53.0		56.3			41.1		
34.0		54.5	52.9		51.8	49.1	54.1	49.5		52.0			40.0		
36.0			49.6		48.5	46.0		46.4			44.0		37.7		
38.0					45.7	43.1		43.5	39.6		41.4				
40.0						40.3		40.7	36.9		38.6				
42.0									34.6		36.2			28.0	
44.0									32.5			29.9		27.3	
46.0												28.1		26.7	
48.0												26.5			
50.0															22.6
52.0															21.6

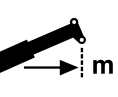


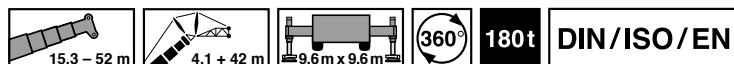
 m	15.3 m + 4.1 m + 30.0 m			23.9 m + 4.1 m + 30.0 m			33.0 m + 4.1 m + 30.0 m			42.4 m + 4.1 m + 30.0 m			52.0 m + 4.1 m + 30.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
16.0	97.1														
18.0	86.9			85.0			83.5								
20.0	78.5			76.8			75.4								
22.0	71.5	68.6		69.9			68.5			67.4					
24.0	65.5	62.8		64.0			62.7			61.6			48.0		
26.0	60.3	57.8		58.9	54.6		57.7			56.7			46.0		
28.0	55.9	53.5	51.7	54.5	50.5		53.4			52.4			44.2		
30.0	52.0	49.8	48.1	50.7	47.0		49.6	44.6		48.7			42.5		
32.0		46.5	44.9	47.3	43.8	41.0	46.3	41.6		45.4			41.1		
34.0		43.6	42.0		41.0	38.4	43.4	38.9		42.5			40.0		
36.0			39.5		38.5	36.1		36.5			34.8		37.7		
38.0					36.3	33.9		34.4	31.2		32.7				
40.0						32.0		32.4	29.4		30.8				
42.0									27.8		29.1			27.8	
44.0									26.3			24.2		26.3	
46.0												23.0		24.9	
48.0												21.8			
50.0															19.1
52.0															18.2




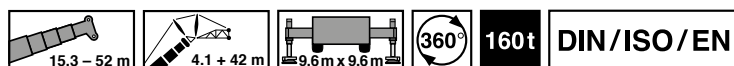
 m	15.3 m + 4.1 m + 36.0 m			23.9 m + 4.1 m + 36.0 m			33.0 m + 4.1 m + 36.0 m			42.4 m + 4.1 m + 36.0 m			52.0 m + 4.1 m + 36.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
16.0	114.8														
18.0	103.3			108.0											
20.0	93.4			98.2			83.6								
22.0	85.4			88.5			83.6			69.8					
24.0	78.9			80.4			79.0			66.5			44.0		
26.0	73.6	71.4		73.6			72.2			63.5			42.4		
28.0	69.3	66.4		67.7			66.5			60.4			40.8		
30.0	64.1	61.9		62.7	58.8		61.5			57.6			39.1		
32.0	59.7	57.5	55.9	58.3	54.7		57.2	52.2		54.7			37.8		
34.0	55.8	53.7	52.2	54.5	51.0		53.4	48.7		51.8			36.6		
36.0	45.7	50.4	48.9	51.1	47.8	44.0	50.0	45.6		49.1			35.5		
38.0		47.4	46.0	48.1	44.9	42.3	47.0	42.7		46.1	40.5		34.4		
40.0			43.4		42.3	39.5	44.4	39.9		43.5	37.8		33.6		
42.0					39.6	37.0		37.4	33.7		35.3		29.9		
44.0						34.8		35.1	31.6		33.2			25.1	
46.0						32.8			29.8		31.2	27.2		24.4	
48.0									28.1		29.5	25.6		23.8	
50.0									26.5			24.1		23.3	
52.0												22.8		23.0	
54.0												21.6			19.7
56.0															18.7
58.0															17.7




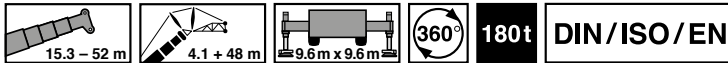
 m	15.3 m + 4.1 m + 36.0 m			23.9 m + 4.1 m + 36.0 m			33.0 m + 4.1 m + 36.0 m			42.4 m + 4.1 m + 36.0 m			52.0 m + 4.1 m + 36.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
16.0	96.3														
18.0	86.1			84.2											
20.0	77.8			76.0			74.6								
22.0	70.8			69.1			67.8			66.6					
24.0	64.8			63.2			61.9			60.8			44.0		
26.0	59.6	57.1		58.2			56.9			55.9			42.4		
28.0	55.2	52.8		53.8			52.6			51.6			40.8		
30.0	51.3	49.0		50.0	46.2		48.9			47.9			39.1		
32.0	47.9	45.7	44.1	46.6	43.0		45.6	40.7		44.7			37.8		
34.0	44.9	42.8	41.3	43.7	40.2		42.6	38.1		41.8			36.6		
36.0	42.2	40.2	38.7	41.0	37.8	35.2	40.0	35.7		39.2			35.5		
38.0		37.9	36.5	38.7	35.5	33.1	37.7	33.6		36.9	31.8		34.4		
40.0			34.5		33.5	31.2	35.6	31.6		34.8	30.0		33.6		
42.0					31.8	29.5		29.9	26.9		28.3		29.9		
44.0						28.0		28.3	25.5		26.8			25.1	
46.0						26.6			24.1		25.4	22.1		24.1	
48.0									22.9		24.1	20.9		22.9	
50.0									21.8			19.9		21.7	
52.0												18.9		20.7	
54.0												18.0			16.3
56.0															15.3
58.0															14.5

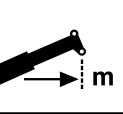


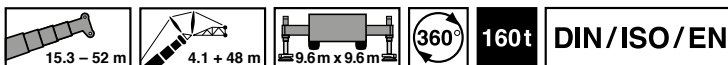
 m	15.3 m + 4.1 m + 42.0 m			23.9 m + 4.1 m + 42.0 m			33.0 m + 4.1 m + 42.0 m			42.4 m + 4.1 m + 42.0 m			52.0 m + 4.1 m + 42.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
18.0	98.5			97.6											
20.0	94.8			94.4											
22.0	86.9			88.0			79.8								
24.0	79.7			79.9			76.2			61.8					
26.0	73.9			73.0			71.7			59.2			36.8		
28.0	68.7	66.3		67.2			65.9			56.9			36.7		
30.0	63.6	61.3		62.2			61.0			54.7			36.2		
32.0	59.2	57.0		57.8	54.1		56.6			52.5			34.9		
34.0	55.3	53.2		54.0	50.4		52.8			50.4			33.7		
36.0	51.8	49.8	48.3	50.6	47.2		49.5	45.0		48.4			32.5		
38.0	48.7	46.8	45.4	47.5	44.3		46.5	42.1		45.6			31.5		
40.0	46.0	44.2	42.8	44.8	41.7	38.9	43.8	39.3		42.9	37.1		30.5		
42.0	40.1	41.8	40.3	42.4	39.0	36.4	41.2	36.7		40.2	34.7		29.7		
44.0		39.3	37.9	39.9	36.7	34.2	38.8	34.5	30.1	37.8	32.5		29.1	23.0	
46.0		37.1	35.8		34.6	32.2	36.6	32.5	29.1	35.7	30.6		28.5	22.3	
48.0			33.8		32.7	30.4		30.7	27.4		28.8		26.6	21.7	
50.0						28.7		29.0	25.9		27.2	23.4		21.1	
52.0						27.3			24.5		25.8	22.1		20.6	
54.0									23.2		24.5	20.9		20.2	
56.0									22.1			19.9		19.8	18.0
58.0												18.9			17.0
60.0												18.0			16.1
64.0															14.6

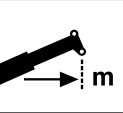


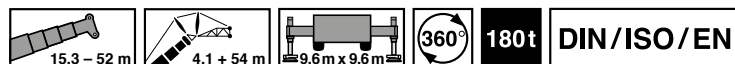
 m	15.3 m + 4.1 m + 42.0 m			23.9 m + 4.1 m + 42.0 m			33.0 m + 4.1 m + 42.0 m			42.4 m + 4.1 m + 42.0 m			52.0 m + 4.1 m + 42.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
18.0	85.6			83.6											
20.0	77.2			75.4											
22.0	70.2			68.6			67.2								
24.0	64.2			62.7			61.4			60.2					
26.0	59.1			57.6			56.4			55.3			36.8		
28.0	54.6	52.2		53.2			52.1			51.1			36.7		
30.0	50.7	48.4		49.4			48.3			47.4			36.2		
32.0	47.3	45.2		46.1	42.4		45.0			44.1			34.9		
34.0	44.3	42.3		43.1	39.6		42.1			41.2			33.7		
36.0	41.6	39.7	38.1	40.5	37.2		39.5	35.0		38.6			32.5		
38.0	39.2	37.3	35.9	38.1	34.9		37.2	32.9		36.3			31.5		
40.0	37.1	35.2	33.9	36.0	32.9	30.6	35.1	31.0		34.2	29.3		30.5		
42.0	35.1	33.4	32.0	34.1	31.1	28.9	33.2	29.3		32.4	27.6		29.7		
44.0		31.6	30.4	32.3	29.5	27.4	31.4	27.7	24.8	30.7	26.1		29.1	23.0	
46.0		30.1	28.9		28.0	25.9	29.9	26.3	23.5	29.1	24.8		28.5	22.3	
48.0			27.5		26.7	24.7		25.0	22.3		23.5		26.6	21.7	
50.0						23.5		23.8	21.2		22.3	19.2		21.1	
52.0						22.4			20.2		21.3	18.2		20.0	
54.0									19.2		20.3	17.3		19.1	
56.0									18.4			16.5		18.2	14.6
58.0												15.7			13.8
60.0												14.9			13.1
64.0															11.7

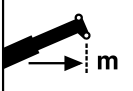


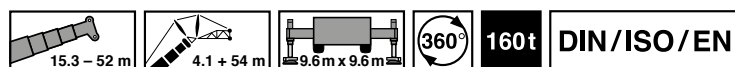
 m	15.3 m + 4.1 m + 48.0 m			23.9 m + 4.1 m + 48.0 m			33.0 m + 4.1 m + 48.0 m			42.4 m + 4.1 m + 48.0 m			52.0 m + 4.1 m + 48.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
18.0	83.9														
20.0	79.3			80.4											
22.0	72.9			78.2			67.0								
24.0	67.2			71.6			67.0			52.6					
26.0	62.4			66.0			66.8			52.6			31.7		
28.0	58.5			61.7			65.1			52.6			31.7		
30.0	55.0	57.8		57.7			61.0			51.3			31.7		
32.0	51.7	57.0		54.2			56.7			49.5			31.6		
34.0	49.0	53.3		51.2	50.4		52.9			47.7			31.3		
36.0	46.6	49.9		48.5	47.2		49.6			46.1			30.7		
38.0	44.1	46.9	44.0	46.0	44.4		46.6	42.1		44.6			29.8		
40.0	41.5	44.2	42.8	43.4	41.8		43.9	39.3		43.0			28.9		
42.0	39.2	41.8	40.4	40.8	39.2	36.4	41.4	36.8		40.4	34.7		28.0		
44.0	37.1	39.5	38.0	38.4	36.8	34.2	39.0	34.6		38.0	32.6		27.3		
46.0	35.1	37.3	35.8	36.4	34.7	32.2	36.7	32.5		35.8	30.6		26.6		
48.0		35.3	33.9	34.6	32.8	30.4	34.8	30.7	27.4	33.8	28.9		26.1	20.6	
50.0		33.5	32.2		31.1	28.8	33.0	29.1	25.9	32.1	27.3		25.6	20.2	
52.0			30.6		29.6	27.3		27.6	24.5	30.5	25.9		24.6	19.6	
54.0					28.2	26.0		26.2	23.3		24.5	20.9	22.4	19.1	
56.0						24.8		25.0	22.1		23.3	19.9		18.7	
58.0									21.1		22.3	18.9		18.4	
60.0									20.1		21.3	18.0		18.1	16.1
64.0												16.4			14.6
68.0															13.3




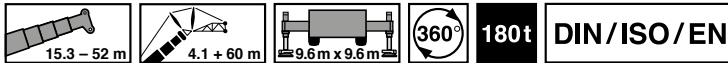
 m	15.3 m + 4.1 m + 48.0 m			23.9 m + 4.1 m + 48.0 m			33.0 m + 4.1 m + 48.0 m			42.4 m + 4.1 m + 48.0 m			52.0 m + 4.1 m + 48.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
18.0	83.9														
20.0	77.2			75.3											
22.0	70.2			68.5			67.0								
24.0	64.2			62.6			61.3			52.6					
26.0	59.1			57.6			56.3			52.6			31.7		
28.0	54.7			53.2			52.1			51.0			31.7		
30.0	50.8	48.4		49.5			48.3			47.3			31.7		
32.0	47.4	45.2		46.1			45.0			44.1			31.6		
34.0	44.4	42.3		43.2	39.6		42.1			41.2			31.3		
36.0	41.7	39.7		40.5	37.2		39.5			38.7			30.7		
38.0	39.3	37.4	35.9	38.2	35.0		37.2	32.9		36.4			29.8		
40.0	37.1	35.3	33.9	36.0	33.0		35.1	31.0		34.3			28.9		
42.0	35.2	33.4	32.1	34.1	31.2	28.9	33.2	29.3		32.4	27.6		28.0		
44.0	33.4	31.7	30.4	32.4	29.5	27.3	31.5	27.7		30.7	26.1		27.3		
46.0	31.8	30.1	28.9	30.8	28.1	25.9	29.9	26.3		29.2	24.7		26.6		
48.0		28.7	27.5	29.4	26.7	24.7	28.5	25.0	22.2	27.8	23.5		26.1	20.6	
50.0		27.4	26.3		25.5	23.5	27.2	23.8	21.1	26.5	22.3		25.6	20.2	
52.0			25.1		24.3	22.4		22.7	20.1	25.3	21.3		24.6	19.6	
54.0					23.3	21.4		21.7	19.2		20.3	17.3	22.4	19.1	
56.0						20.5		20.8	18.4		19.4	16.5		18.2	
58.0									17.6		18.6	15.7		17.4	
60.0									16.8		17.8	14.9		16.7	13.0
64.0												13.5			11.7
68.0															10.6

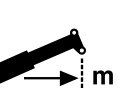


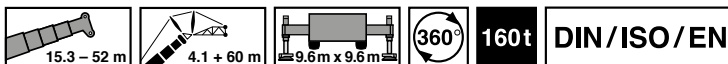
 m	15.3 m + 4.1 m + 54.0 m			23.9 m + 4.1 m + 54.0 m			33.0 m + 4.1 m + 54.0 m			42.4 m + 4.1 m + 54.0 m			52.0 m + 4.1 m + 54.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
20.0	77.1														
22.0	74.8			68.3											
24.0	72.6			68.2			57.6								
26.0	69.7			68.0			57.6			43.8					
28.0	65.0			66.2			57.6			43.8					
30.0	61.0			61.2			57.6			43.8			27.4		
32.0	57.5	56.0		56.8			55.6			43.7			27.4		
34.0	54.3	52.2		53.0			51.8			43.5			27.4		
36.0	50.9	48.8		49.6	44.0		48.5			41.8			27.3		
38.0	47.8	45.8		46.6	43.2		45.5			40.5			27.0		
40.0	45.0	43.2		43.8	40.6		42.8	38.1		39.2			26.5		
42.0	42.5	40.8	39.3	41.4	38.0		40.3	35.6		37.7			25.7		
44.0	40.2	38.3	36.9	38.9	35.7		37.8	33.4		36.8			24.9		
46.0	37.9	36.1	34.7	36.7	33.5	31.0	35.6	31.4		34.7	29.4		24.2		
48.0	35.9	34.1	32.7	34.7	31.6	29.2	33.6	29.5		32.7	27.6		23.5		
50.0	34.0	32.3	31.0	32.9	29.9	27.6	31.8	27.9		30.9	26.1		22.9	18.2	
52.0	31.8	30.7	29.4	31.2	28.4	26.1	30.2	26.4	23.3	29.3	24.6		22.4	17.7	
54.0	27.7	29.2	27.9	29.7	26.9	24.8	28.7	25.0	22.0	27.8	23.3		22.0	17.3	
56.0		27.8	26.6		25.6	23.5	27.4	23.8	20.9	26.5	22.1		21.6	16.8	
58.0			25.4		24.4	22.4		22.6	19.8	24.8	21.0	17.6	20.8	16.4	
60.0						21.4		21.6	18.8		20.0	16.7	18.9	16.0	
64.0									17.1		18.2	15.0		15.4	13.2
68.0									15.7			13.7		15.0	11.9
72.0															10.8

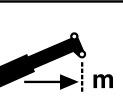


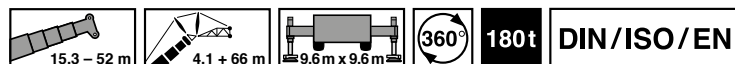
 m	15.3 m + 4.1 m + 54.0 m			23.9 m + 4.1 m + 54.0 m			33.0 m + 4.1 m + 54.0 m			42.4 m + 4.1 m + 54.0 m			52.0 m + 4.1 m + 54.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
20.0	76.1														
22.0	69.1			67.4											
24.0	63.2			61.5			57.6								
26.0	58.0			56.5			55.2			43.8					
28.0	53.6			52.2			51.0			43.8					
30.0	49.7			48.4			47.2			43.8			27.4		
32.0	46.3	44.1		45.0			43.9			43.0			27.4		
34.0	43.3	41.2		42.1			41.0			40.1			27.4		
36.0	40.6	38.6		39.5	36.0		38.4			37.6			27.3		
38.0	38.2	36.3		37.1	33.8		36.1			35.3			27.0		
40.0	36.1	34.2		35.0	31.8		34.0	29.8		33.2			26.5		
42.0	34.1	32.3	30.9	33.0	30.0		32.1	28.1		31.3			25.7		
44.0	32.3	30.6	29.3	31.3	28.4		30.4	26.5		29.6			24.9		
46.0	30.7	29.0	27.8	29.7	26.9	24.8	28.8	25.1		28.1	23.5		24.2		
48.0	29.2	27.6	26.4	28.2	25.6	23.5	27.4	23.8		26.7	22.3		23.5		
50.0	27.9	26.3	25.1	26.9	24.3	22.3	26.1	22.6		25.4	21.1		22.9	18.2	
52.0	26.6	25.1	23.9	25.7	23.2	21.2	24.9	21.5	18.9	24.2	20.1		22.4	17.7	
54.0	25.5	24.0	22.9	24.6	22.1	20.2	23.8	20.5	18.0	23.1	19.1		22.0	17.3	
56.0		23.0	21.9		21.2	19.3	22.8	19.6	17.1	22.1	18.2		21.4	16.8	
58.0			21.0		20.3	18.5		18.7	16.4	21.2	17.4	14.4	20.5	16.2	
60.0						17.7		18.0	15.6		16.6	13.6	18.9	15.4	
64.0									14.3		15.3	12.2		14.0	10.4
68.0									13.0			11.0		12.7	9.3
72.0															8.3

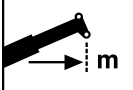


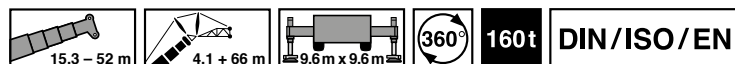
 m	15.3 m + 4.1 m + 60.0 m			23.9 m + 4.1 m + 60.0 m			33.0 m + 4.1 m + 60.0 m			42.4 m + 4.1 m + 60.0 m			52.0 m + 4.1 m + 60.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
22.0	60.7														
24.0	60.2			53.1											
26.0	59.6			52.9			45.9								
28.0	59.1			52.6			45.9			34.5					
30.0	58.6			52.4			45.8			34.5			23.5		
32.0	57.7			52.2			45.8			34.5			23.5		
34.0	53.8			52.0			45.7			34.4			23.5		
36.0	50.3	48.2		49.0			45.7			34.4			23.5		
38.0	47.2	45.3		46.0			44.9			34.4			23.4		
40.0	44.5	42.6		43.3	40.0		42.3			34.3			23.4		
42.0	42.0	40.2		40.8	37.4		39.7	35.0		34.1			23.3		
44.0	39.6	37.8		38.3	35.1		37.2	32.7		33.9			23.2		
46.0	37.3	35.5	30.1	36.1	32.9		35.0	30.7		33.7			23.1		
48.0	35.2	33.5	30.1	34.1	31.0		33.0	28.9		32.1	27.0		23.1		
50.0	33.4	31.7	30.1	32.2	29.3	26.9	31.2	27.2		30.3	25.4		23.0		
52.0	31.7	30.0	28.8	30.5	27.7	25.4	29.6	25.7		28.7	23.9		22.7	18.8	
54.0	30.1	28.5	27.3	29.0	26.3	24.1	28.1	24.4	21.3	27.2	22.6		22.2	18.3	
56.0	28.7	27.1	25.9	27.6	25.0	22.9	26.7	23.1	20.2	25.8	21.4		21.7	17.7	
58.0	27.3	25.9	24.7	26.4	23.8	21.7	25.4	21.9	19.1	24.6	20.3		21.3	17.2	
60.0		24.7	23.6	25.2	22.7	20.7	24.3	20.9	18.1	23.5	19.3	15.9	21.0	16.7	
64.0			21.6		20.7	18.8		19.0	16.4		17.5	14.3	19.0	15.9	
68.0						17.3		17.5	15.0		16.0	12.9		14.6	11.2
72.0									13.7		14.7	11.8		13.4	10.1
76.0												10.8		12.4	9.1
80.0															8.3




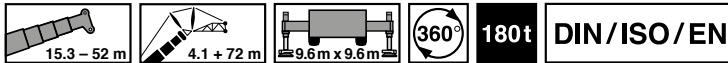
 m	15.3 m + 4.1 m + 60.0 m			23.9 m + 4.1 m + 60.0 m			33.0 m + 4.1 m + 60.0 m			42.4 m + 4.1 m + 60.0 m			52.0 m + 4.1 m + 60.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
22.0	60.7														
24.0	60.2			53.1											
26.0	57.5			52.9			45.9								
28.0	53.0			51.6			45.9			34.5					
30.0	49.2			47.8			45.8			34.5			23.5		
32.0	45.8			44.5			43.4			34.5			23.5		
34.0	42.8			41.5			40.5			34.4			23.5		
36.0	40.1	38.0		38.9			37.9			34.4			23.5		
38.0	37.7	35.7		36.5			35.5			34.4			23.4		
40.0	35.5	33.6		34.4	31.2		33.4			32.6			23.4		
42.0	33.5	31.7		32.5	29.4		31.5	27.4		30.7			23.3		
44.0	31.7	30.0		30.7	27.8		29.8	25.9		29.0			23.2		
46.0	30.1	28.4	27.1	29.1	26.3		28.2	24.5		27.5			23.1		
48.0	28.6	27.0	25.8	27.7	25.0		26.8	23.2		26.1	21.6		23.1		
50.0	27.3	25.7	24.5	26.3	23.7	21.7	25.5	22.0		24.8	20.5		23.0		
52.0	26.0	24.5	23.3	25.1	22.6	20.6	24.3	20.9		23.6	19.4		22.7	18.1	
54.0	24.9	23.4	22.2	24.0	21.5	19.6	23.2	19.9	17.3	22.4	18.4		21.8	17.2	
56.0	23.8	22.3	21.2	22.9	20.5	18.7	22.1	18.9	16.5	21.4	17.5		20.8	16.3	
58.0	22.8	21.4	20.3	22.0	19.6	17.8	21.2	18.1	15.7	20.5	16.7		19.9	15.5	
60.0		20.5	19.5	21.1	18.8	17.0	20.3	17.3	14.9	19.6	15.9	12.8	19.0	14.8	
64.0			18.0		17.3	15.6		15.9	13.5		14.6	11.4	17.5	13.2	
68.0						14.5		14.7	12.3		13.3	10.2		11.9	8.5
72.0									11.2		12.2	9.2		10.8	7.5
76.0												8.4		10.0	6.7
80.0															6.1

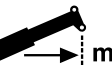


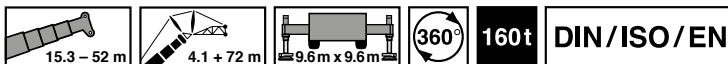
 m	15.3 m + 4.1 m + 66.0 m			23.9 m + 4.1 m + 66.0 m			33.0 m + 4.1 m + 66.0 m			42.4 m + 4.1 m + 66.0 m			52.0 m + 4.1 m + 66.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
24.0	42.0														
26.0	42.0			40.1											
28.0	42.0			39.9			35.3								
30.0	42.0			39.6			35.1			28.9					
32.0	42.0			39.4			35.0			28.8			17.6		
34.0	41.8			39.1			34.9			28.8			17.6		
36.0	41.5			38.9			34.7			28.7			17.6		
38.0	41.2	40.2		38.6			34.6			28.7			17.5		
40.0	40.0	39.9		38.3			34.5			28.7			17.5		
42.0	38.5	39.4		38.1	36.6		34.3			28.6			17.4		
44.0	37.0	37.0		37.1	34.2		34.1			28.5			17.4		
46.0	35.6	34.7		35.3	32.1		34.0	29.8		28.3			17.2		
48.0	34.0	32.7	30.1	33.2	30.2		32.2	28.0		28.2			17.0		
50.0	32.6	30.9	29.5	31.4	28.5		30.4	26.4		28.0	24.5		16.8		
52.0	30.8	29.2	27.9	29.7	26.9	24.6	28.7	24.9		27.8	23.0		16.6		
54.0	29.3	27.7	26.4	28.2	25.4	23.2	27.2	23.5		26.4	21.7		16.3	17.3	
56.0	27.8	26.3	25.1	26.8	24.1	22.0	25.8	22.2		25.0	20.5		16.1	17.0	
58.0	26.5	25.0	23.8	25.5	22.9	20.8	24.6	21.1	18.2	23.7	19.4		15.9	16.6	
60.0	25.3	23.8	22.7	24.3	21.8	19.8	23.4	20.0	17.2	22.6	18.4		15.7	15.8	
64.0		21.8	20.7	22.2	19.8	17.9	21.3	18.1	15.5	19.7	16.6	13.4	15.3	15.1	
68.0			19.0		18.1	16.3	19.6	16.5	14.0	15.4	15.0	12.0	14.8	13.7	
72.0						15.0		15.1	12.7		13.7	10.8	14.4	12.4	9.1
76.0									11.7		12.6	9.8		11.3	8.1
80.0												8.9		10.4	7.3
84.0															6.6
88.0															6.0




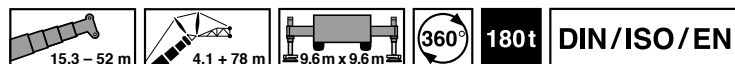
 m	15.3 m + 4.1 m + 66.0 m			23.9 m + 4.1 m + 66.0 m			33.0 m + 4.1 m + 66.0 m			42.4 m + 4.1 m + 66.0 m			52.0 m + 4.1 m + 66.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
24.0	42.3														
26.0	42.3			40.1											
28.0	42.3			39.9			35.3								
30.0	42.3			39.6			35.1			28.9					
32.0	42.2			39.4			35.0			28.8			17.6		
34.0	41.8			39.1			34.9			28.8			17.6		
36.0	39.3			38.1			34.7			28.8			17.6		
38.0	36.9	34.9		35.7			34.6			28.7			17.5		
40.0	34.7	32.8		33.6			32.6			28.7			17.5		
42.0	32.8	30.9		31.7	28.6		30.8			28.6			17.4		
44.0	31.0	29.2		29.9	27.0		29.0			28.2			17.4		
46.0	29.3	27.6		28.3	25.5		27.5	23.6		26.7			17.2		
48.0	27.8	26.2	24.9	26.9	24.1		26.0	22.3		25.2			17.0		
50.0	26.5	24.9	23.7	25.5	22.9		24.7	21.1		23.9	19.6		16.8		
52.0	25.2	23.7	22.5	24.3	21.7	19.7	23.5	20.0		22.7	18.5		16.6		
54.0	24.0	22.6	21.4	23.1	20.7	18.7	22.3	19.0		21.6	17.6		16.3	16.3	
56.0	23.0	21.5	20.4	22.1	19.7	17.8	21.3	18.1		20.6	16.7		16.1	15.4	
58.0	22.0	20.6	19.5	21.1	18.8	17.0	20.3	17.2	14.8	19.7	15.8		15.9	14.6	
60.0	21.1	19.7	18.6	20.2	17.9	16.2	19.5	16.4	14.0	18.8	15.1		15.7	13.8	
64.0		18.1	17.1	18.6	16.4	14.8	17.9	15.0	12.6	17.2	13.7	10.5	15.3	12.3	
68.0			15.8		15.1	13.5	16.6	13.7	11.3	15.4	12.3	9.3	14.8	11.0	
72.0						12.4			12.6		11.1	8.3	14.2	9.9	6.5
76.0									9.3		10.2	7.4		8.9	5.7
80.0												6.6		8.1	5.0
84.0															4.4
88.0															4.0




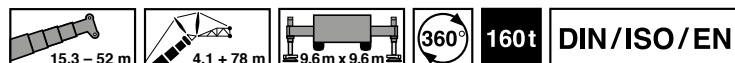
 m	15.3 m + 4.1 m + 72.0 m			23.9 m + 4.1 m + 72.0 m			33.0 m + 4.1 m + 72.0 m			42.4 m + 4.1 m + 72.0 m			52.0 m + 4.1 m + 72.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
26.0	35.6														
28.0	35.1			32.9											
30.0	34.7			32.6			29.3								
32.0	34.3			32.3			29.2			24.4					
34.0	33.8			32.0			29.0			24.4			15.1		
36.0	33.4			31.7			28.9			24.3			15.1		
38.0	33.0			31.4			28.7			24.3			15.1		
40.0	32.5			31.1			28.6			24.2			15.1		
42.0	32.1	31.7		30.8			28.4			24.2			15.0		
44.0	31.7	31.4		30.5	29.6		28.2			24.1			15.0		
46.0	31.3	31.0		30.2	29.4		28.0			24.0			15.0		
48.0	30.9	30.7		29.9	29.2		27.8	24.6		23.9			15.0		
50.0	30.3	30.3		29.6	27.9		27.6	24.6		23.8			14.8		
52.0	29.1	28.7	27.4	29.2	26.3		27.4	24.3		23.7	20.8		14.7		
54.0	28.0	27.1	25.9	27.6	24.9		26.7	22.9		23.6	20.8		14.5		
56.0	27.0	25.7	24.5	26.2	23.5	21.3	25.3	21.6		23.5	19.9		14.4		
58.0	26.0	24.5	23.3	24.9	22.3	20.2	24.0	20.5		23.2	18.8		14.3		
60.0	24.7	23.3	22.1	23.7	21.2	19.2	22.8	19.4	16.6	22.0	17.7		14.1	14.6	
64.0	22.6	21.2	20.1	21.6	19.2	17.3	20.7	17.5	14.8	19.9	15.9		13.9	14.1	
68.0	20.8	19.4	18.3	19.8	17.5	15.7	18.9	15.8	13.3	18.2	14.4	11.3	13.6	13.0	
72.0		17.8	16.8	18.3	16.0	14.3	17.4	14.4	12.1	16.7	13.0	10.1	13.3	11.7	
76.0			15.6		14.8	13.1		13.2	11.0	15.4	11.9	9.1	12.9	10.6	7.4
80.0								12.3	10.0		10.9	8.2		9.6	6.6
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88.0												6.8		8.2	5.2
92.0															4.7




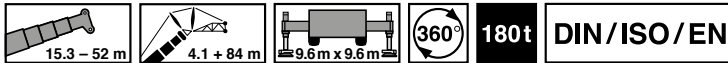
 m	15.3 m + 4.1 m + 72.0 m			23.9 m + 4.1 m + 72.0 m			33.0 m + 4.1 m + 72.0 m			42.4 m + 4.1 m + 72.0 m			52.0 m + 4.1 m + 72.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
26.0	35.6														
28.0	35.1			32.9											
30.0	34.7			32.6			29.3								
32.0	34.3			32.3			29.2			24.4					
34.0	33.8			32.0			29.0			24.4			15.1		
36.0	33.4			31.7			28.9			24.3			15.1		
38.0	33.0			31.4			28.7			24.3			15.1		
40.0	32.5			31.1			28.6			24.2			15.1		
42.0	32.1	30.3		30.8			28.4			24.2			15.0		
44.0	30.4	28.6		29.4	26.4		28.2			24.1			15.0		
46.0	28.8	27.1		27.8	24.9		26.9			24.1			15.0		
48.0	27.3	25.6		26.3	23.5		25.5	21.7		24.0			15.0		
50.0	25.9	24.3		25.0	22.3		24.1	20.5		23.4			14.8		
52.0	24.7	23.1	21.9	23.7	21.1		22.9	19.4		22.2	17.9		14.7		
54.0	23.5	22.0	20.8	22.6	20.1		21.8	18.4		21.1	16.9		14.5		
56.0	22.4	21.0	19.8	21.5	19.1	17.2	20.7	17.5		20.0	16.0		14.4		
58.0	21.4	20.0	18.9	20.5	18.2	16.3	19.8	16.6		19.1	15.2		14.3		
60.0	20.5	19.1	18.0	19.6	17.3	15.6	18.9	15.8	13.4	18.2	14.4		14.1	13.2	
64.0	18.8	17.5	16.5	18.0	15.8	14.1	17.3	14.4	11.9	16.6	13.0		13.9	11.6	
68.0	17.4	16.1	15.2	16.6	14.5	12.9	15.9	13.1	10.6	15.2	11.7	8.6	13.6	10.3	
72.0		14.9	14.0	15.4	13.4	11.8	14.7	11.9	9.5	14.1	10.5	7.6	13.3	9.2	
76.0			13.0		12.4	10.7		10.9	8.6	13.1	9.5	6.7	12.4	8.2	5.0
80.0								10.0	7.7		8.6	5.9		7.4	4.3
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88.0												4.7		6.2	3.2
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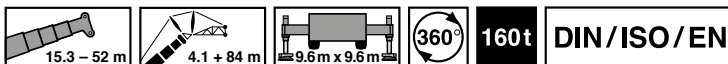
 m	15.3 m + 4.1 m + 78.0 m			23.9 m + 4.1 m + 78.0 m			33.0 m + 4.1 m + 78.0 m			42.4 m + 4.1 m + 78.0 m			52.0 m + 4.1 m + 78.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
26.0	26.0														
28.0	25.7			24.1											
30.0	25.4			23.9			21.5								
32.0	25.1			23.6			21.4			18.1					
34.0	24.8			23.4			21.2			18.0			12.8		
36.0	24.5			23.2			21.1			17.9			12.8		
38.0	24.3			23.0			20.9			17.8			12.7		
40.0	24.0			22.8			20.8			17.7			12.7		
42.0	23.7	23.5		22.6			20.6			17.6			12.7		
44.0	23.5	23.3		22.4			20.5			17.5			12.7		
46.0	23.2	23.1		22.2	21.9		20.3			17.4			12.6		
48.0	23.0	22.9		22.0	21.8		20.2			17.3			12.6		
50.0	22.8	22.7		21.8	21.7		20.0	19.8		17.2			12.6		
52.0	22.5	22.5		21.6	21.5		19.8	19.8		17.0			12.5		
54.0	22.3	22.3		21.4	21.4		19.7	19.8		16.9			12.4		
56.0	22.1	22.2	21.6	21.2	21.3		19.5	19.8		16.7	17.0		12.4		
58.0	21.8	22.0	21.5	21.0	21.2		19.3	19.6		16.6	17.0		12.3		
60.0	21.6	21.8	21.3	20.8	20.4	18.3	19.2	18.5		16.4	16.8		12.2		
64.0	21.1	20.3	19.2	20.4	18.3	16.4	18.8	16.6		16.1	15.0		12.0	12.3	
68.0	19.8	18.5	17.4	18.9	16.6	14.8	18.1	15.0	12.4	15.8	13.5		11.8	11.8	
72.0	18.3	16.9	15.9	17.3	15.1	13.4	16.5	13.5	11.1	15.5	12.1	9.1	11.7	10.8	
76.0		15.6	14.6	16.0	13.8	12.2	14.5	12.3	10.0	14.4	10.9	8.1	11.5	9.7	
80.0			13.5		12.7	11.1		11.2	9.0	13.3	9.9	7.2	11.3	8.7	5.6
84.0						10.2		10.4	8.2		9.0	6.4		7.8	4.8
88.0									7.5		8.3	5.7		7.1	4.2
92.0												5.2		6.5	3.7
96.0															3.2




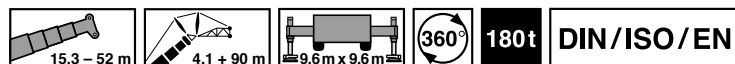
 m	15.3 m + 4.1 m + 78.0 m			23.9 m + 4.1 m + 78.0 m			33.0 m + 4.1 m + 78.0 m			42.4 m + 4.1 m + 78.0 m			52.0 m + 4.1 m + 78.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
26.0	26.0														
28.0	25.7			24.1											
30.0	25.4			23.9			21.5								
32.0	25.1			23.7			21.4			18.1					
34.0	24.8			23.4			21.2			18.0			12.8		
36.0	24.5			23.2			21.1			17.9			12.8		
38.0	24.3			23.0			20.9			17.8			12.7		
40.0	24.0			22.8			20.8			17.7			12.7		
42.0	23.7	23.5		22.6			20.6			17.6			12.7		
44.0	23.5	23.3		22.4			20.5			17.5			12.7		
46.0	23.3	23.1		22.2	21.9		20.3			17.5			12.6		
48.0	23.0	22.9		22.0	21.8		20.2			17.3			12.6		
50.0	22.8	22.7		21.8	21.5		20.0	19.7		17.2			12.6		
52.0	22.6	22.3		21.6	20.3		19.8	18.6		17.0			12.5		
54.0	22.3	21.2		21.4	19.3		19.7	17.6		16.9			12.4		
56.0	21.6	20.1	19.0	20.7	18.3		19.5	16.6		16.7	15.2		12.4		
58.0	20.6	19.2	18.1	19.8	17.4		19.0	15.8		16.6	14.3		12.3		
60.0	19.7	18.3	17.2	18.8	16.5	14.7	18.1	15.0		16.4	13.6		12.2		
64.0	18.0	16.7	15.7	17.2	15.0	13.3	16.5	13.5		15.8	12.1		12.0	10.7	
68.0	16.6	15.3	14.3	15.8	13.7	12.0	15.1	12.2	9.7	14.4	10.8		11.8	9.4	
72.0	15.3	14.1	13.1	14.5	12.5	10.8	13.8	11.0	8.6	13.2	9.6	6.6	11.7	8.3	
76.0		13.0	12.1	13.5	11.4	9.8	12.8	9.9	7.6	12.0	8.5	5.7	11.4	7.3	
80.0			11.2		10.5	8.9		9.0	6.8	11.1	7.6	4.9	10.4	6.4	3.3
84.0						8.1		8.2	6.1		6.9	4.3		5.7	2.7
88.0									5.4		6.2	3.7		5.1	2.2
92.0												3.2		4.6	

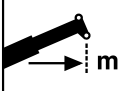


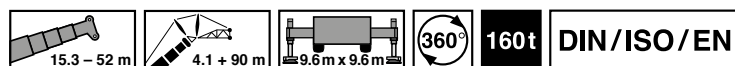
 m	15.3 m + 4.1 m + 84.0 m			23.9 m + 4.1 m + 84.0 m			33.0 m + 4.1 m + 84.0 m			42.4 m + 4.1 m + 84.0 m			52.0 m + 4.1 m + 84.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
28.0	21.4														
30.0	21.1			20.0											
32.0	20.8			19.8			18.1								
34.0	20.5			19.6			17.9			15.4					
36.0	20.3			19.4			17.8			15.4			11.1		
38.0	20.0			19.2			17.7			15.3			11.1		
40.0	19.7			19.0			17.5			15.2			11.1		
42.0	19.5			18.7			17.4			15.1			11.0		
44.0	19.2			18.5			17.3			15.1			11.0		
46.0	18.9	18.9		18.3			17.1			15.0			11.0		
48.0	18.7	18.7		18.1			17.0			14.9			11.0		
50.0	18.5	18.4		17.9	17.7		16.8			14.9			11.0		
52.0	18.2	18.2		17.7	17.6		16.7			14.8			11.0		
54.0	18.0	18.0		17.5	17.4		16.5	16.3		14.7			10.9		
56.0	17.8	17.8		17.3	17.3		16.4	16.3		14.5			10.9		
58.0	17.5	17.6		17.1	17.1		16.2	16.2		14.4	14.3		10.8		
60.0	17.3	17.4	17.1	16.9	17.0		16.1	16.1		14.3	14.3		10.8		
64.0	16.8	17.0	16.8	16.5	16.7	16.1	15.8	16.0		14.1	14.3		10.7		
68.0	16.3	16.6	16.5	16.1	16.4	14.6	15.5	14.7		13.9	13.2		10.6	10.5	
72.0	15.9	16.2	15.7	15.7	14.9	13.1	15.2	13.3	10.9	13.7	11.9		10.5	10.5	
76.0	15.4	15.3	14.4	15.3	13.6	11.9	14.8	12.1	9.8	13.5	10.7	7.8	10.4	9.4	
80.0	14.9	14.1	13.2	14.5	12.5	10.9	13.7	11.0	8.8	13.0	9.6	6.9	10.3	8.4	
84.0		13.1	12.2		11.5	9.9	12.7	10.0	7.9	12.0	8.7	6.1	10.1	7.5	4.5
88.0					10.7	9.1		9.2	7.2		7.9	5.4	9.4	6.8	4.1
92.0						8.5			6.5		7.3	4.8		6.1	3.7
96.0									6.0			4.3		5.6	3.3
100.0												3.9			2.9
104.0															2.5




 m	15.3 m + 4.1 m + 84.0 m			23.9 m + 4.1 m + 84.0 m			33.0 m + 4.1 m + 84.0 m			42.4 m + 4.1 m + 84.0 m			52.0 m + 4.1 m + 84.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
28.0	21.4														
30.0	21.1			20.0											
32.0	20.8			19.8			18.1								
34.0	20.5			19.6			17.9			15.4					
36.0	20.3			19.4			17.8			15.4			11.1		
38.0	20.0			19.2			17.7			15.3			11.1		
40.0	19.7			19.0			17.5			15.2			11.1		
42.0	19.5			18.7			17.4			15.1			11.0		
44.0	19.2			18.5			17.3			15.1			11.0		
46.0	18.9	18.9		18.3			17.1			15.0			11.0		
48.0	18.7	18.7		18.1			17.0			14.9			11.0		
50.0	18.5	18.4		17.9	17.7		16.8			14.9			11.0		
52.0	18.2	18.2		17.7	17.6		16.7			14.8			11.0		
54.0	18.0	18.0		17.5	17.4		16.5	16.3		14.7			10.9		
56.0	17.8	17.8		17.3	17.3		16.4	16.3		14.5			10.9		
58.0	17.5	17.6		17.1	17.1		16.2	15.5		14.4	14.1		10.8		
60.0	17.3	17.4	17.0	16.9	16.3		16.1	14.7		14.3	13.3		10.8		
64.0	16.8	16.5	15.4	16.5	14.8	13.0	15.8	13.3		14.1	11.9		10.7		
68.0	16.3	15.1	14.1	15.6	13.4	11.8	14.8	12.0		13.9	10.5		10.6	9.2	
72.0	15.1	13.8	12.9	14.3	12.3	10.6	13.6	10.8	8.3	13.0	9.3		10.5	8.0	
76.0	14.0	12.8	11.8	13.2	11.2	9.5	12.5	9.7	7.4	11.8	8.3	5.4	10.4	7.0	
80.0	13.0	11.8	10.9	12.3	10.2	8.6	11.5	8.7	6.5	10.8	7.4	4.7	10.1	6.1	
84.0		11.0	10.1		9.3	7.8	10.6	7.9	5.8	9.9	6.6	4.0	9.2	5.4	
88.0					8.6	7.1		7.2	5.1		5.9	3.4	8.5	4.7	
92.0						6.5			4.6		5.3	2.9		4.2	
96.0									4.2			2.5		3.7	
100.0												2.1			



 m	15.3 m + 4.1 m + 90.0 m			23.9 m + 4.1 m + 90.0 m			33.0 m + 4.1 m + 90.0 m			42.4 m + 4.1 m + 90.0 m			52.0 m + 4.1 m + 90.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
32.0	17.4			16.6											
34.0	17.2			16.4			15.1								
36.0	16.9			16.2			15.0			13.0					
38.0	16.7			16.0			14.9			13.0			9.4		
40.0	16.4			15.8			14.7			12.9			9.4		
42.0	16.2			15.6			14.6			12.8			9.4		
44.0	15.9			15.4			14.5			12.8			9.4		
46.0	15.6			15.2			14.3			12.7			9.4		
48.0	15.4	15.4		15.0			14.2			12.6			9.4		
50.0	15.2	15.2		14.8			14.1			12.6			9.4		
52.0	15.0	15.0		14.6	14.5		13.9			12.5			9.4		
54.0	14.7	14.7		14.4	14.3		13.8			12.4			9.4		
56.0	14.5	14.5		14.3	14.2		13.6			12.3			9.4		
58.0	14.3	14.3		14.1	14.0		13.5	13.3		12.2			9.3		
60.0	14.1	14.1		13.9	13.8		13.3	13.2		12.1			9.3		
64.0	13.7	13.7	13.6	13.5	13.5		13.1	13.0		11.9	11.8		9.2		
68.0	13.2	13.3	13.2	13.1	13.2		12.8	12.9		11.7	11.8		9.2		
72.0	12.8	13.0	12.9	12.7	12.9	12.7	12.5	12.7		11.6	11.7		9.1	8.8	
76.0	12.4	12.6	12.6	12.4	12.6	11.8	12.2	12.2	10.0	11.4	11.1		9.0	8.7	
80.0	11.9	12.3	12.3	12.0	12.3	10.8	11.9	11.1	9.0	11.2	10.0	7.4	8.9	8.4	
84.0	11.5	11.9	11.7	11.6	11.3	9.8	11.6	10.1	8.1	11.0	9.1	6.6	8.9	7.9	
88.0		11.5	10.7	11.2	10.3	8.9	11.3	9.2	7.3	10.8	8.2	5.9	8.8	7.4	4.6
92.0			9.9		9.5	8.1		8.4	6.6	10.3	7.5	5.2	7.7	6.6	4.0
96.0						7.4		7.7	5.9		6.8	4.6		6.0	3.4
100.0									5.3		6.1	4.0		5.3	2.9
104.0												3.5		4.7	2.4
108.0															2.0



 m	15.3 m + 4.1 m + 90.0 m			23.9 m + 4.1 m + 90.0 m			33.0 m + 4.1 m + 90.0 m			42.4 m + 4.1 m + 90.0 m			52.0 m + 4.1 m + 90.0 m		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
32.0	17.4			16.6											
34.0	17.2			16.4			15.1								
36.0	16.9			16.2			15.0			13.0					
38.0	16.7			16.0			14.9			13.0			9.4		
40.0	16.4			15.8			14.7			12.9			9.4		
42.0	16.2			15.6			14.6			12.8			9.4		
44.0	15.9			15.4			14.5			12.8			9.4		
46.0	15.6			15.2			14.3			12.7			9.4		
48.0	15.4	15.4		15.0			14.2			12.6			9.4		
50.0	15.2	15.2		14.8			14.1			12.6			9.4		
52.0	15.0	15.0		14.6	14.5		13.9			12.5			9.4		
54.0	14.7	14.7		14.4	14.3		13.8			12.4			9.4		
56.0	14.5	14.5		14.3	14.2		13.6			12.3			9.4		
58.0	14.3	14.3		14.1	14.0		13.5	13.3		12.2			9.3		
60.0	14.1	14.1		13.9	13.8		13.3	13.2		12.1			9.3		
64.0	13.7	13.7	13.6	13.5	13.5		13.1	12.7		11.9	11.3		9.2		
68.0	13.2	13.3	13.2	13.1	12.8		12.8	11.4		11.7	9.9		9.2		
72.0	12.8	13.0	12.3	12.7	11.7	10.0	12.5	10.2		11.6	8.7		9.1	7.3	
76.0	12.4	12.1	11.2	12.4	10.6	8.9	11.9	9.0	6.7	11.2	7.6		9.0	6.3	
80.0	11.9	11.2	10.3	11.6	9.5	7.9	10.8	8.1	5.8	10.1	6.7	4.0	8.9	5.5	
84.0	11.5	10.3	9.4	10.7	8.7	7.1	9.9	7.2	5.1	9.2	5.9	3.3	8.5	4.7	
88.0		9.5	8.6	9.9	7.9	6.4	9.1	6.5	4.4	8.4	5.2	2.7	7.8	4.0	
92.0			7.9		7.3	5.8		5.9	3.9	7.8	4.6	2.2	7.1	3.5	
96.0						5.3		5.4	3.4		4.1			3.0	
100.0									3.0		3.7			2.6	
104.0														2.3	

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




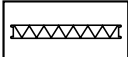
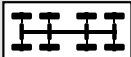





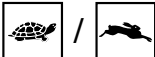









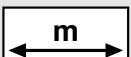

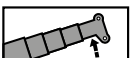



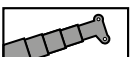



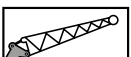


A no ser que se indique lo contrario, todos los datos incluidos en este folleto hacen referencia al equipamiento estándar de la grúa y sólo tienen un carácter informativo general. El manual de instrucciones original y las tablas de capacidades de carga son determinantes para lograr un correcto funcionamiento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

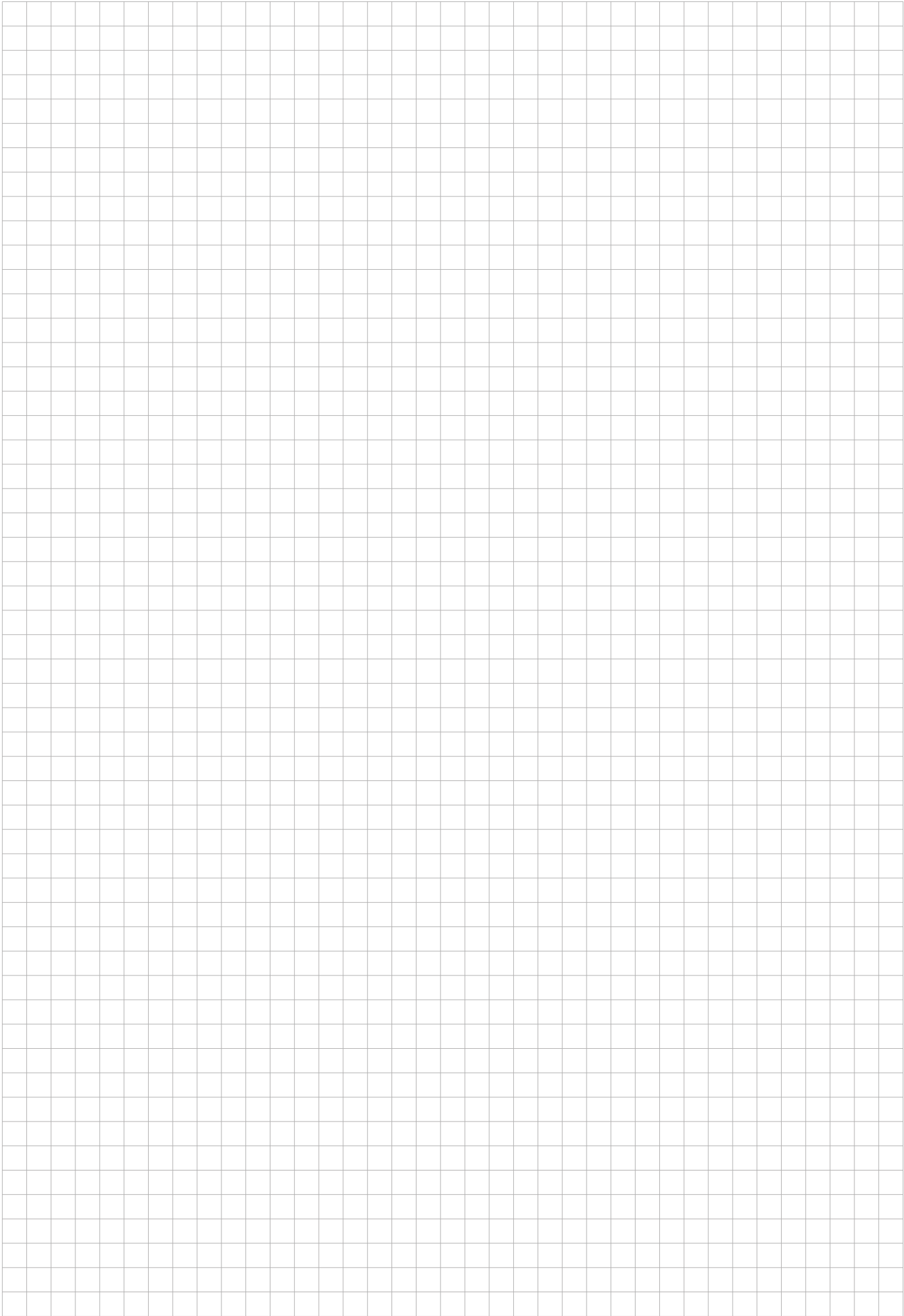
Se non diversamente specificato, tutti i dati di questa brochure si riferiscono alla dotazione standard della gru e sono da considerarsi come informazioni generali. Per un esercizio corretto della gru, sono determinanti il manuale d'uso originale e le tabelle delle portate. Si declina ogni responsabilità 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		Luffing jib · Wippspitze Fléchette à volée variable · Plumín abatible Punta oscillante · маневровый гусек
	Axle load · Achslast Charge à l'essieu · Carga por eje Carico assiale · Осевая нагрузка		Fly jib section · Spitzenteil Élément de fléchette · Plumín Parte punta · Головная секция
	Drive · Antrieb Entraînement · Tracción Trazione · Привод		Swing area · Drehbereich Rayon de rotation · Zona de giro Area di rotazione · Область поворота
	Tyres · Bereifung Pneus · Neumáticos Pneumatici · Шины		Hydraulically lockable · Hydraulisch verriegelbar Verrouillable hydrauliquement · Con embulonamiento hidráulico · Con dispositivo di bloccaggio idraulico Гидравлическая блокировка
	Gradeability · Steigfähigkeit · Capacité de gravisement de pente · Superación de pendientes · Capacità di salita Способность преодолевать подъем		Main winch · Hubwinde · Mécanisme de levage Cabrestante principal · Meccanismo di sollevamento Главная лебедка
	Off road / On road · Gelände / Straße Tout-terrain / Mode "Route" · Todo terreno / En carretera Fuori strada / Su strada · Бездорожье / Дорога		2 nd winch · 2. Winde 2 ^{ème} treuil · 2° cabrestante Secondo argano · 2-я лебедка
	Speed · Geschwindigkeit Vitesse · Velocidad Velocità · Скорость		3 rd winch · 3. Winde 3 ^{ème} treuil · 3° cabrestante Terzo argano · 3-я 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
	Tilttable jib · abwinkelbare Spitze Fléchette inclinable · Plumín regulable Punta con regolazione angolo Гусек с изменением угла наклона		Weight · Gewicht Poids · Peso Peso · Bec
	Hydraulically tilttable jib · hydraulisch abwinkelbare Spitze Fléchette inclinable hydrauliquement · Plumín regulable hidráulicamente · Punta con regolazione angolo idraulica Гусек гидравлический с изменением угла наклона		





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