

## ENGINE

Model .....	Komatsu SAA6D140E-5
Type .....	Common rail direct injection, water-cooled, cooled EGR, turbocharged, after-cooled diesel
Engine power	
at rated engine speed .....	1.800 rpm
ISO 14396 .....	323 kW / 433 HP
ISO 9249 (net engine power) .....	320 kW / 429 HP
No. of cylinders .....	6
Bore × stroke .....	140 × 165 mm
Displacement .....	15,24 ltr
Fan drive type .....	Hydraulic, reversible

## HYDRAULIC SYSTEM

Type .....	Open-center load-sensing system
Additional circuits .....	1 additional circuit can be installed (7,3 m / 7,6 m boom only)
Number of selectable working modes .....	3
Main pump .....	Variable capacity piston pump
Pumps for .....	Boom, arm, bucket, swing, and travel circuits
Maximum pump flow .....	2 × 410 ltr/min
Fan drive pump .....	Variable capacity piston pump
Hydraulic motors:	
Travel .....	2 × axial piston motor with parking brake
Swing .....	2 × axial piston motor with swing holding brake
Relief valve settings	
Implement circuits .....	320 bar
Travel circuit .....	350 bar
Swing circuit .....	290 bar
Pilot circuit .....	30 bar

## UNDERCARRIAGE

Construction .....	H-leg frame with box section track-frames
Track assembly	
Type .....	Fully sealed
Shoes (each side) .....	47
Tension .....	Hydraulic
Rollers	
Track rollers (each side) .....	8
Carrier rollers (each side) .....	3

## OPERATING WEIGHT (APPR.)

Work equipment	6,6 m boom / 2,9 m arm / 2.500 kg bucket		7,3 m boom / 3,5 m arm / 2.500 kg bucket		7,6 m boom / 3,5 m arm / 2.500 kg bucket	
	Operating weight	Ground pressure	Operating weight	Ground pressure	Operating weight	Ground pressure
Double grouser shoes						
610 mm	65.640 kg	1,08 kg/m <sup>2</sup>	65.540 kg	1,08 kg/m <sup>2</sup>	65.700 kg	1,08 kg/m <sup>2</sup>
710 mm	66.330 kg	0,94 kg/m <sup>2</sup>	66.230 kg	0,94 kg/m <sup>2</sup>	66.390 kg	0,94 kg/m <sup>2</sup>
810 mm	67.015 kg	0,83 kg/m <sup>2</sup>	66.915 kg	0,83 kg/m <sup>2</sup>	67.075 kg	0,83 kg/m <sup>2</sup>
910 mm	67.040 kg	0,74 kg/m <sup>2</sup>	66.940 kg	0,74 kg/m <sup>2</sup>	67.100 kg	0,74 kg/m <sup>2</sup>

Operating weight, including boom, arm, bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

## SWING SYSTEM

Type .....	Hydraulic motor
Swing reduction .....	Planetary gear
Swing circle lubrication .....	Grease-bathed
Swing lock .....	Oil disc brake
Swing speed .....	8,3 rpm

## DRIVES AND BRAKES

Steering control .....	2 levers with pedals
Drive method .....	Fully hydrostatic
Travel motor .....	Axial piston motor, in-shoe design
Reduction system .....	Planetary double reduction
Max. drawbar pull .....	47.400 kg
Gradeability .....	70%
Max. travel speeds	
Lo / Hi .....	2,8 / 4,6 km/h
Service brake .....	Hydraulic lock
Parking brake .....	Oil disc brake

## SERVICE REFILL CAPACITIES

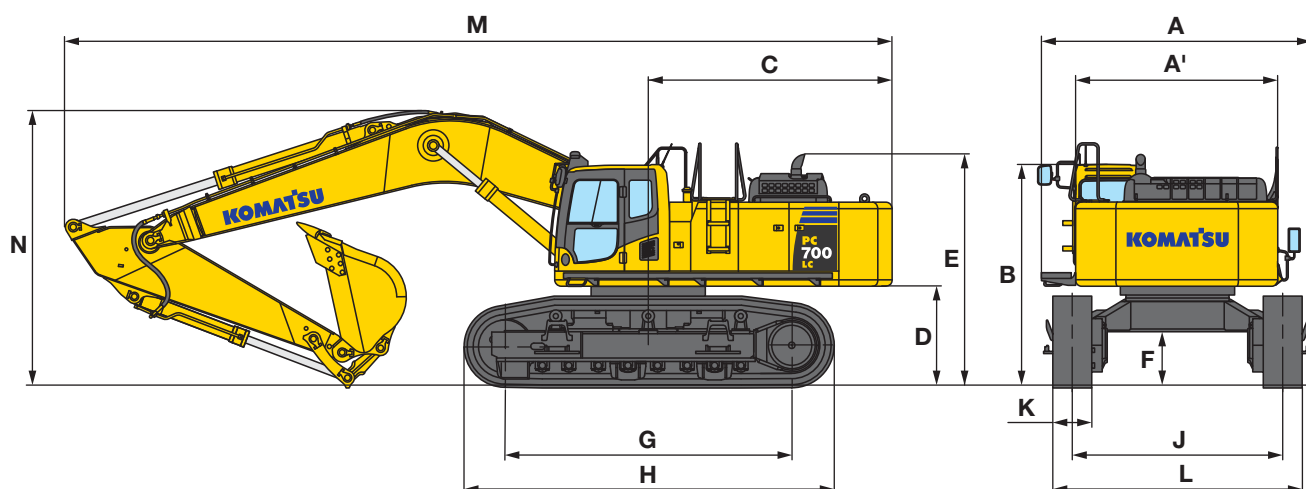
Fuel tank .....	880 ltr
Radiator .....	58 ltr
Engine oil .....	40 ltr
Swing drive .....	2 × 13 ltr
Hydraulic tank .....	360 ltr
Final drive (each side) .....	10 ltr

## ENVIRONMENT

Engine emissions .....	Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations
Noise levels	
LwA external .....	108 dB(A) (2000/14/EC Stage 2)
LpA operator ear .....	73 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)*	
Hand/arm .....	≤ 2,5 m/s <sup>2</sup> (uncertainty K = 1,06 m/s <sup>2</sup> )
Body .....	≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,15 m/s <sup>2</sup> )

\* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

# Dimensions & Performance Figures



MODEL	PC700LC-8		
Boom length	6,6 m	7,3 m	7,6 m
Arm length	2,9 m	3,5 m	3,5 m
A Overall width of upper structure (incl. catwalk)	4.290 mm	4.290 mm	4.290 mm
A' Machine cab width	3.170 mm	3.170 mm	3.170 mm
B Overall height of cab (incl. OPG)	3.595* mm	3.595* mm	3.475 mm
C Tail swing radius	3.950 mm	3.950 mm	3.950 mm
D Clearance under counterweight	1.550 mm	1.550 mm	1.550 mm
E Machine tail height (to top of exhaust pipe)	3.620 mm	3.620 mm	3.620 mm
F Ground clearance	830 mm	830 mm	830 mm
G Tumbler center distance	4.500 mm	4.500 mm	4.500 mm
H Track length	5.810 mm	5.810 mm	5.810 mm
J Track gauge (working position)	3.300 mm	3.300 mm	3.300 mm
K Track shoe width	610, 710, 810, 910 mm	610, 710, 810, 910 mm	610, 710, 810, 910 mm
L Overall track width with 610 mm shoes	3.910 mm	3.910 mm	3.910 mm
Overall track width with 710 mm shoes	4.010 mm	4.010 mm	4.010 mm
Overall track width with 810 mm shoes	4.110 mm	4.110 mm	4.110 mm
Overall track width with 910 mm shoes	4.210 mm	4.210 mm	4.210 mm
Grouser height	50 mm	50 mm	50 mm
Track gauge (when retracted)	2.590 mm	2.590 mm	2.590 mm
M Overall length	11.990 mm	12.580 mm	12.960 mm
N Overall height (to top of boom)	4.670 mm	4.280 mm	4.350 mm

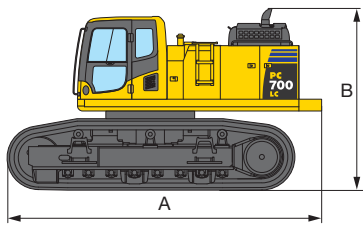
## MAX. BUCKET CAPACITY AND WEIGHT

Arm length	2,9 m (6,6 m boom)		3,5 m (7,3 m boom)		3,5 m (7,6 m boom)	
Material weight up to 1,2 t/m <sup>3</sup>	5,58 m <sup>3</sup>	3.925 kg	4,28 m <sup>3</sup>	3.625 kg	4,05 m <sup>3</sup>	3.250 kg
Material weight up to 1,5 t/m <sup>3</sup>	4,66 m <sup>3</sup>	3.650 kg	3,59 m <sup>3</sup>	3.375 kg	3,24 m <sup>3</sup>	2.600 kg
Material weight up to 1,8 t/m <sup>3</sup>	4,00 m <sup>3</sup>	3.425 kg	3,10 m <sup>3</sup>	3.200 kg	2,70 m <sup>3</sup>	2.175 kg
Max. bucket width	2.000 mm		1.780 mm		1.600 mm	

Max. capacity and weight have been calculated according to ISO 10567:2007.

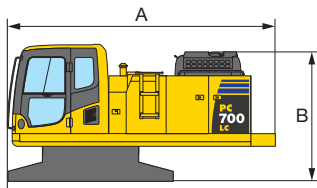
Please consult with your distributor for the correct selection of buckets and attachments to suit the application.

## UPPER STRUCTURE + UNDERCARRIAGE



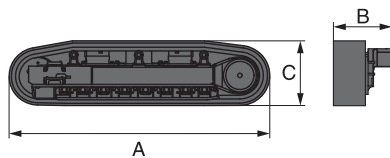
PC700LC-8		
A	Length	6.490 mm
B	Height	3.665 mm
	Overall width (610, 710 mm shoes)	3.490 mm
	Overall width (810, 910 mm shoes)	3.810 mm
	Weight	40.500 kg

## UPPER STRUCTURE



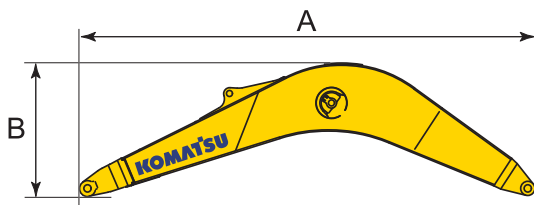
PC700LC-8		
A	Length	5.065 mm
B	Total height	2.765 mm
	Overall width	3.170 mm
	Weight	17.500 kg

## UNDERCARRIAGE



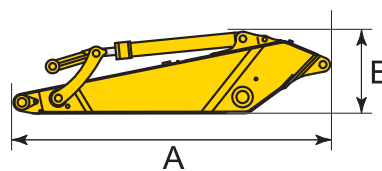
PC700LC-8		
	Quantity	2
A	Length	5.810 mm
B	Overall width	980 mm
C	Height	1.440 mm
	Weight	22.000 kg (2 × 11.000 kg)

## Boom



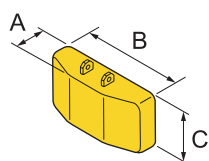
BOOM LENGTH		6,6 m	7,3 m	7,6 m
A	Length	6.870 mm	7.550 mm	7.930 mm
B	Height	2.090 mm	2.010 mm	2.010 mm
	Overall width	1.050 mm	1.050 mm	1.050 mm
	Weight	4.810 kg	4.710 kg	4.870 kg

## Arm



ARM LENGTH		2,9 m	3,5 m
A	Length	4.230 mm	4.870 mm
B	Height	1.490 mm	1.210 mm
	Overall width	460 mm	460 mm
	Weight	3.510 kg	3.250 kg

## COUNTERWEIGHT



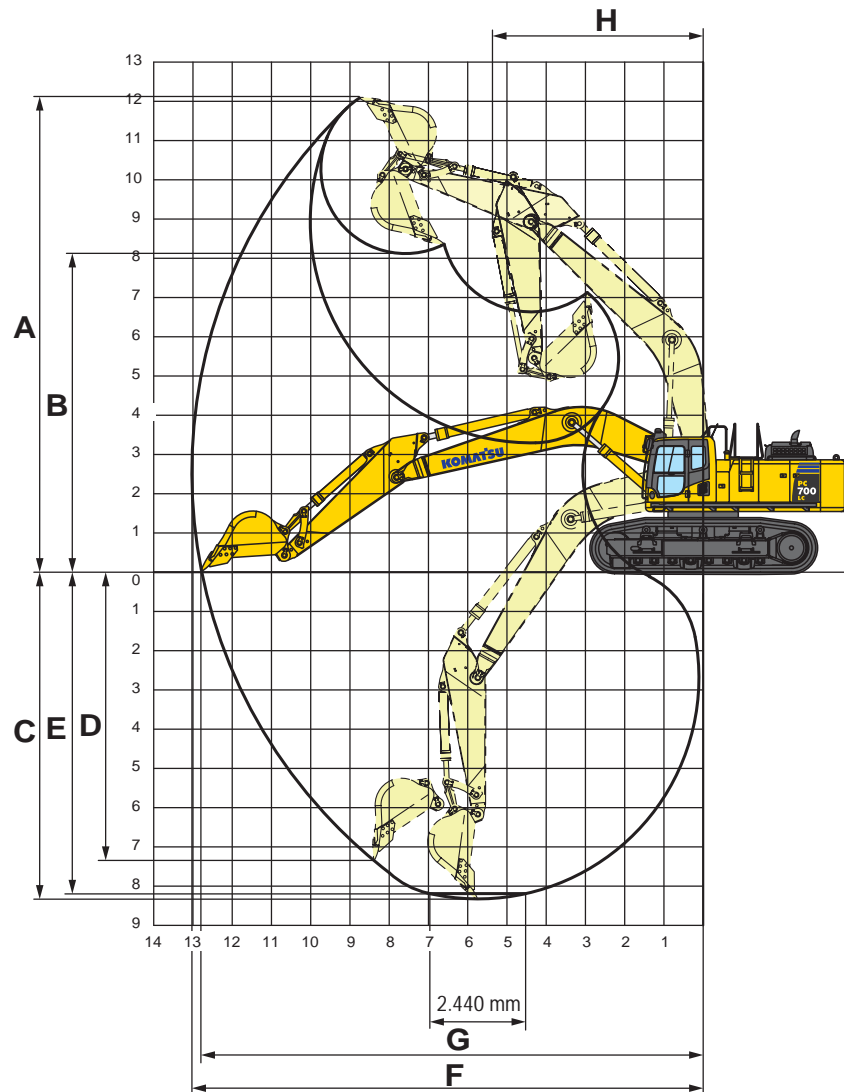
PC700LC-8		
A	Width	830 mm
B	Length	3.170 mm
C	Height	1.320 mm
	Weight	10.750 kg

## CYLINDERS

BOOM CYLINDER		
A	Length	2.670 mm
	Weight	1.000 kg (2 × 500 kg)

ARM CYLINDER		
A	Length	3.110 mm
	Weight	730 kg

# Working Range



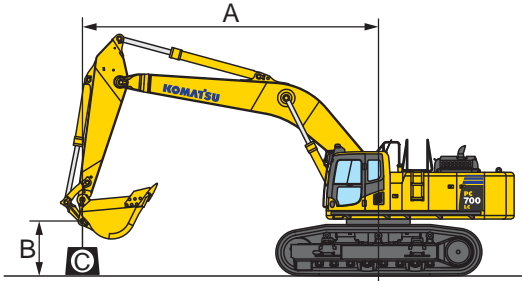
## MONO BOOM

Boom length	6,6 m	7,3 m	7,6 m
Arm length	2,9 m	3,5 m	3,5 m
A Max. digging height	11.350 mm	11.680 mm	12.085 mm
B Max. dumping height	7.360 mm	7.810 mm	8.120 mm
C Max. digging depth	6.910 mm	8.010 mm	8.325 mm
D Max. vertical wall digging depth	5.470 mm	6.480 mm	7.340 mm
E Max. digging depth of cut for 2,44 m level	6.765 mm	7.880 mm	8.190 mm
F Max. digging reach	11.585 mm	12.640 mm	13.030 mm
G Max. digging reach at ground level	11.295 mm	12.380 mm	12.785 mm
H Min. swing radius	4.670 mm	5.090 mm	5.370 mm

## BUCKET AND ARM FORCE (ISO)

Arm length (boom length)	2,9 m (6,6 m)	3,5 m (7,3 m)
Bucket digging force	34.300 kg	30.000 kg
Bucket digging force at PowerMax	36.900 kg	32.300 kg
Arm crowd force	27.700 kg	23.300 kg
Arm crowd force at PowerMax	29.900 kg	25.100 kg

## BOOM LENGTH 6,6 M



A – Reach from swing centre

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

With 610 mm shoes

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m		
	B												
	9,1 m	kg *9.700	*9.700										
	7,6 m	kg *9.080	*9.080			*11.270	*11.270						
	6,1 m	kg *8.960	*8.960	*8.780	*8.780	*11.590	*11.590						
	4,6 m	kg *9.200	*9.200	*11.040	11.000	*12.600	*12.600	*15.350	*15.350	*19.960	*19.960		
	3,0 m	kg *9.810	9.460	*11.590	10.640	*13.930	*13.930	*18.000	*18.000	*24.410	*24.410		
	1,5 m	kg *10.790	9.280	*12.010	10.320	*14.900	14.100	*19.670	*19.670	*26.870	*26.870		
	0,0 m	kg *11.370	9.570	*11.990	10.100	*15.250	13.690	*20.040	19.650	*26.580	*26.580		
	-1,5 m	kg *11.480	10.450	*11.030	10.060	*14.870	13.490	*19.620	*19.360	*26.540	*26.540	*18.830	*18.830
	-3,0 m	kg *11.370	*11.370			*13.090	*13.090	*17.780	*17.780	*23.560	*23.560	*22.590	*22.590
	-4,6 m	kg *10.470	*10.470					*13.340	*13.340	*18.080	*18.080	*22.890	*22.890
-6,1 m	kg												
<b>Lifting mode: ON</b> 	9,1 m	kg *11.830	*11.830										
	7,6 m	kg *11.110	*11.110			*14.110	*14.110						
	6,1 m	kg *10.970	*10.970	*10.770	*10.770	*14.530	*14.530						
	4,6 m	kg *11.240	10.170	*13.990	11.000	*15.800	15.330	*19.030	*19.030	*24.460	*24.460		
	3,0 m	kg *11.950	9.460	14.500	10.640	*17.460	14.600	*22.320	21.350	*30.100	*30.100		
	1,5 m	kg 12.750	9.280	14.150	10.320	*18.690	14.100	*24.430	20.320	*27.300	*27.300		
	0,0 m	kg 13.180	9.570	13.920	10.100	18.880	13.690	*24.920	19.650	*26.580	*26.580		
	-1,5 m	kg 14.400	10.450	13.880	10.060	*18.660	13.490	*24.460	19.360	*32.840	*31.600	*22.520	*22.520
	-3,0 m	kg *14.580	12.320			*16.640	13.580	*22.300	19.480	*29.330	*29.330	*27.240	*27.240
	-4,6 m	kg *13.600	*13.600					*17.050	*17.050	*22.840	*22.840	*28.910	*28.910
-6,1 m	kg												

\* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard No. J1097.

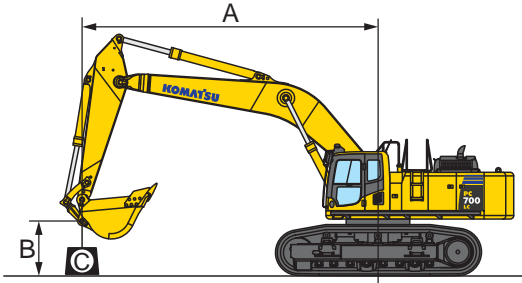
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting capacity table is published for guidance only, the machine is not intended for use as a crane.

Lifting capacities are stated in kg, on the tip of the arm, for machine on firm, level supporting surface.

# Lifting Capacity

## BOOM LENGTH 7,3 M



A – Reach from swing centre

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

With 610 mm shoes

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m		
	B												
	9,1 m	kg *6.500	*6.500										
	7,6 m	kg *6.300	*6.300	*8.000	*8.000								
	6,1 m	kg *6.350	*6.350	*9.550	*9.550	*10.500	*10.500						
	4,6 m	kg *6.650	*6.650	*10.150	*10.150	*11.750	*11.750	*14.500	*14.500	*19.900	*19.900		
	3,0 m	kg *7.200	*7.200	*11.000	10.800	*13.300	*13.300	*17.350	*17.350	*24.100	*24.100		
	1,5 m	kg *8.000	7.750	*11.650	10.400	*14.500	14.100	*19.250	*19.250	*21.300	*21.300		
	0,0 m	kg *9.200	7.900	*12.050	10.150	*15.150	13.650	*20.000	19.500	*14.600	*14.600		
	-1,5 m	kg *10.200	8.500	*11.900	10.000	*15.150	13.400	*19.850	19.200	*21.100	*21.100	*14.000	*14.000
	-3,0 m	kg *10.350	9.650	*10.900	10.000	*14.400	13.350	*18.750	*18.750	*24.750	*24.750	*19.650	*19.650
	-4,6 m	kg *10.350	*10.350			*12.100	*12.100	*16.150	*16.150	*21.000	*21.000	*27.400	*27.400
-6,1 m	kg *9.500	*9.500					*11.450	*11.450	*15.250	*15.250			
<b>Lifting mode: ON</b> 	9,1 m	kg *8.150	*8.150										
	7,6 m	kg *7.900	*7.900	*9.850	*9.850								
	6,1 m	kg *7.950	*7.950	*12.150	11.550	*13.200	*13.200						
	4,6 m	kg *8.300	*8.300	*12.900	11.200	*14.800	*14.800	*18.000	*18.000	*24.400	*24.400		
	3,0 m	kg *8.900	7.900	*13.950	10.800	*16.700	14.750	*21.550	21.050	*26.500	*26.500		
	1,5 m	kg *9.850	7.750	14.200	10.400	*18.200	14.100	*23.950	20.200	*23.400	*23.400		
	0,0 m	kg 10.950	7.900	13.950	10.150	18.800	13.650	*24.850	19.500	*17.800	*17.800		
	-1,5 m	kg 11.700	8.500	13.750	10.000	18.550	13.400	*24.750	19.200	*25.450	*25.450	*16.950	*16.950
	-3,0 m	kg 13.250	9.650	13.800	10.000	*18.150	13.350	*23.450	19.200	*30.700	*30.700	*23.750	*23.750
	-4,6 m	kg *13.350	12.100			*15.450	13.600	*20.350	*19.450	*26.250	*26.250	*33.500	*33.500
-6,1 m	kg *12.450	*12.450					*14.750	*14.750	*19.500	*19.500			

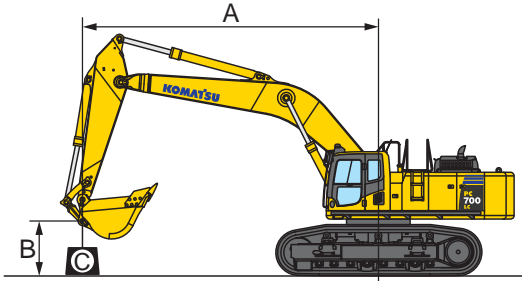
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Lifting capacities are stated in kg, on the tip of the arm, for machine on firm, level supporting surface.

## BOOM LENGTH 7,6 M



A – Reach from swing centre

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

With 610 mm shoes

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m		
	B												
	9,1 m	kg *6.950	*6.950										
	7,6 m	kg *6.750	*6.750	*9.400	*9.400								
	6,1 m	kg *6.850	*6.850	*9.700	*9.700	*10.800	*10.800						
	4,6 m	kg *7.100	*7.100	*10.400	*10.400	*12.100	*12.100	*15.000	*15.000	*20.100	*20.100		
	3,0 m	kg *7.600	*7.600	*11.250	11.100	*13.600	*13.600	*17.850	*17.850				
	1,5 m	kg *8.300	7.550	*11.950	10.700	*14.800	14.300	*19.650	*19.650	*14.500	*14.500		
	0,0 m	kg *9.400	7.700	*12.350	10.400	*15.400	13.850	*20.200	19.500	*16.850	*16.850		
	-1,5 m	kg *10.000	8.200	*12.300	10.250	*15.450	13.600	*20.000	19.200	*16.550	*16.550	*11.950	*11.950
	-3,0 m	kg *10.150	9.150	*11.600	10.250	*14.800	13.550	*18.950	*18.950	*24.500	*24.500	*14.350	*14.350
	-4,6 m	kg *10.150	*10.150			*12.950	*12.950	*16.650	*16.650	*21.150	*21.150	*24.800	*24.800
-6,1 m	kg *9.500	*9.500			*8.550	*8.550	*12.800	*12.800	*16.300	*16.300			
<b>Lifting mode: ON</b> 	9,1 m	kg *8.550	*8.550										
	7,6 m	kg *8.350	*8.350	*11.850	*11.850								
	6,1 m	kg *8.450	*8.450	*12.250	11.950	*13.500	*13.500						
	4,6 m	kg *8.750	8.150	*13.100	11.550	*15.100	*15.100	*18.500	*18.500	*24.650	*24.650		
	3,0 m	kg *9.300	7.700	*14.150	11.100	*17.000	14.900	*22.100	21.250				
	1,5 m	kg *10.150	7.550	14.500	10.700	*18.500	14.300	*24.350	20.150	*17.400	*17.400		
	0,0 m	kg 10.550	7.700	14.200	10.400	18.950	13.850	*25.100	19.500	*20.150	*20.150		
	-1,5 m	kg 11.200	8.200	14.000	10.250	18.700	13.600	*24.850	19.200	*19.950	*19.950	*14.450	*14.450
	-3,0 m	kg 12.500	9.150	14.000	10.250	*18.600	13.550	*23.650	19.300	*30.400	*30.400	*17.400	*17.400
	-4,6 m	kg *13.000	11.150			*16.400	13.750	*20.900	19.600	*26.450	*26.450	*29.600	*29.600
-6,1 m	kg *12.350	*12.350			*11.150	*11.150	*16.350	*13.650	*20.650	*20.650			

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