




ATLAS

Wheel Excavator 180Wsr



-  17.5 - 21.0 tons
-  95 kW (129 hp)
-  0.82 - 1.12 m³



STABLE. STRONG. STEADY.
180Wsr

Specifications

ENGINE

Power rating acc. to ISO 924995 kW (129 HP)	Number of cylinders 4	Generator 24 V / 55 Ah
RPM 2300/min	Bore / cylinder stroke 101 / 126	Starter 24 V / 4 kW
Make / model Deutz / TCD 2012 L04 2V	Cooling system Water-cooled	
Design Turbocharger / charge-air cooling	Air filter Dry air filter	
Displacement 4,040 cm ³	Battery 2 x 12 V / 100 Ah	

HYDRAULIC SYSTEM

<ul style="list-style-type: none"> • AWE 4 System • Load limit controlled high-performance pump 	<ul style="list-style-type: none"> • Suction valves for all work functions • Load-retaining and fine lowering valves in lifting circuit 	<ul style="list-style-type: none"> • Hydraulic system 1 x Axial piston pump • Main pump HPR 135
<ul style="list-style-type: none"> • Fuel-efficient flow-on-demand control • Sensitive, proportional, independent control 	<ul style="list-style-type: none"> • Restrictors in the lift and articulating circuits • Primary and secondary overload protection 	<ul style="list-style-type: none"> • Max. oil flow 300 l/min • Max. operating pressure 340 bar

SWING ASSEMBLY

• Swing motor:	Axial piston motor with priority valve	• Max. swing speed 9/min
• Swing gear:	Planetary transmission	• Swing torque 45 kNm
• Swing brake:	Automatically controlled multi-disc brake	

* working on a slope the superstructure can easily be swung upwards, with lockable foot pedal, when exceeding the hydraulic pressure of 120 bar

TRACTION DRIVE AND BRAKES

• Variable displacement motor	• Travel controls via foot pedal valve:	• All-wheel drive
• Planetary drives in all four wheel hubs	• Max. speed 20 km/h	• Dual-circuit brake system Multi-disc
• Double-acting brake valve	• Off-road speed 5 km/h	• Parking brake Spring-loaded brake
• Travel direction pre-selection via steering column mounted lever	• Crawling speed 3 km/h	

UNDERCARRIAGE

• 40 tons special excavator axles	• 8 tires (twins) 10.00 - 20	• Turning radius 7.5 m
• Steering axle with automatic oscillating axle locking	• 4 tires (optional) 600 / 40-22.5	

FILL CAPACITIES

• Fuel tank 230 litres	• Engine oil 13 litres	• Hydraulic tank 300 litres
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DRIVER'S CAB

<ul style="list-style-type: none"> • Elastically mounted • Panorama glazing with heat-absorbing glass • The interior is glare-free • Front window slidable under cab roof 	DRIVER'S SEAT: <ul style="list-style-type: none"> • Air-cushioned comfort seat (optional seat heating) • Arm rests and lumbar support • Seat adjustable separately from console 	<ul style="list-style-type: none"> • Type Atlas Comfort Cab 935 • Overall length 1,760 mm • Width 935 mm
	CONTROL: <ul style="list-style-type: none"> • Ergonomic joysticks • Slim steering column, height and tilt adjustable 	SOUND LEVELS: <ul style="list-style-type: none"> • ISO 6396 (L_{pA}) in driver's cab 78 dB(A) • 2000/14 EG (L_{wA}) ambience level 100 dB(A)

Working equipment

EQUIPMENT

BASIC UNIT ATLAS 180Wsr (can be combined)		
<ul style="list-style-type: none"> Wheel Excavator 180Wsr with support/dozer blade, tailswing 1,750 mm 	STANDARD EQUIPMENT:	
BOOMS: <ul style="list-style-type: none"> Base arm with 2 lifting cylinders and internal articulating cylinder (C66.41) Intermediate boom with stick cylinder, for base arm C66.41, working length 3,300 mm (C66.46) Standard monoblock boom with two lifting cylinders and one stick cylinder, working length 4,950 mm (C66.3M) 	Hydraulic system: <ul style="list-style-type: none"> Grab / grab rotating function Accumulator for emergency lowering of boom system 	<ul style="list-style-type: none"> Storage box Traveling per foot pedal Comfort seat with arm rests and orthopedic lumbar support
	Cab: <ul style="list-style-type: none"> Air-conditioning Preparation for radio installation Slim steering column, height and tilt adjustable Fuel gauge Battery main switch in negative lead Windshield washer system 	EQUIPMENT: <ul style="list-style-type: none"> Sealed pivot points in the case section of the boom Grab storage during road travel Central lubrication
	STICKS: <ul style="list-style-type: none"> Stick, working length 2200 mm (D66.2) Stick, working length 2700 mm (D66.3) 	UNDERCARRIAGE: <ul style="list-style-type: none"> Wheels with intermediate rings Infinitely adjustable support/dozer blade, with parallel guidance
BUCKET TIPPING CYLINDER: <ul style="list-style-type: none"> Bucket tipping cylinder with bucket linkage (F66.1) 	<ul style="list-style-type: none"> Sliding window in cab door 	<ul style="list-style-type: none"> Toolbox in undercarriage

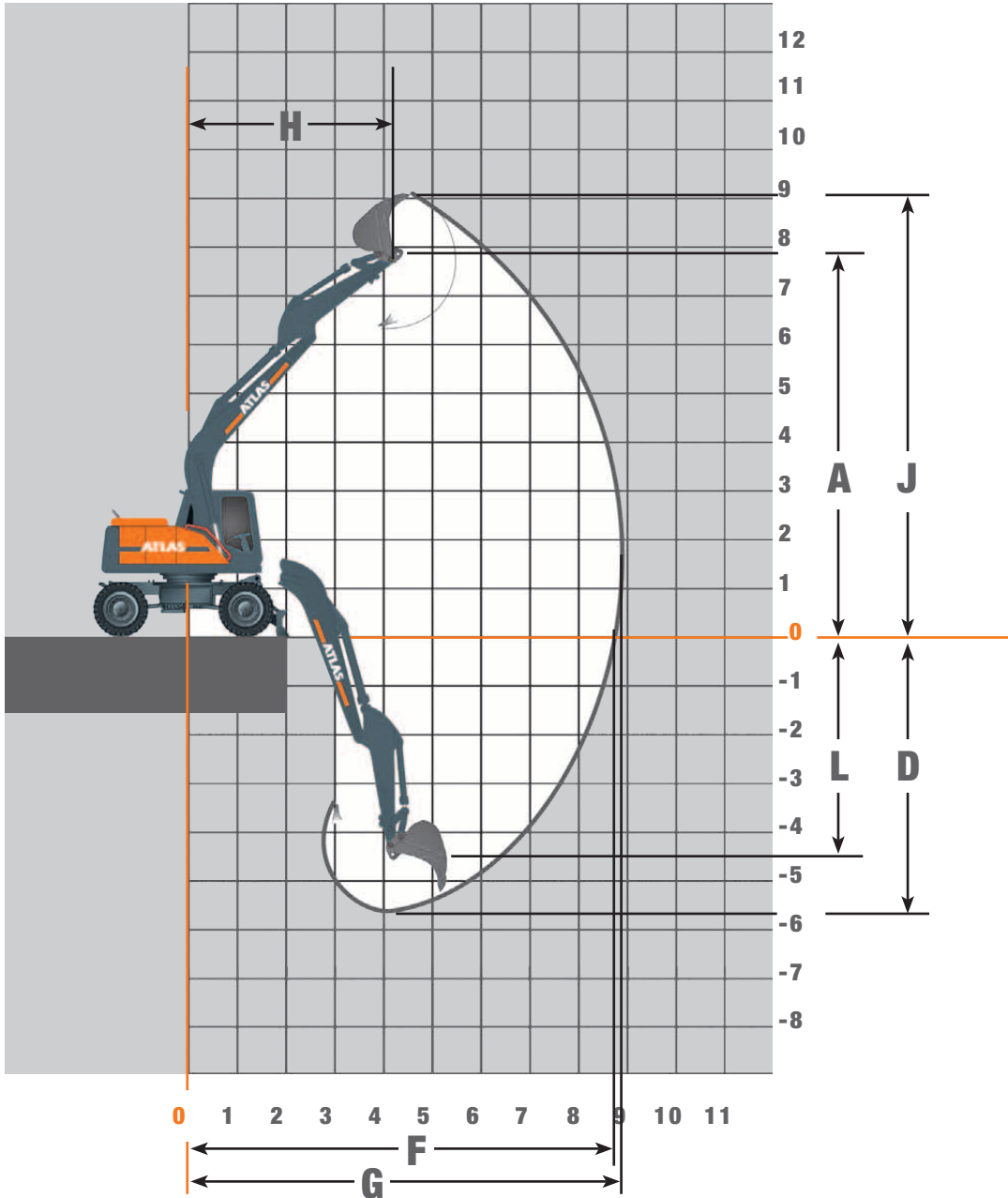
SPECIAL EQUIPMENT

Booms: <ul style="list-style-type: none"> Additional hydraulic unit for variable boom cylinder (B66.39) Hose-rupture safety device for lifting cylinders, overload warning device (B66.41) 	<ul style="list-style-type: none"> Radio CD/MP3, front AUX in, USB Xenon working lights
Uppercarriage: <ul style="list-style-type: none"> Heavy counterweight, tailswing 2,000 mm (B67.20) 	Undercarriage: <ul style="list-style-type: none"> Wide axles, overall width 2,750 mm (B655) Wide dozer blade, overall width 2,750 mm (B656)
Cab: <ul style="list-style-type: none"> Beacon light Heated driver's seat 	

ATTACHMENTS (SELECTION)

	Bucket F416	Bucket F417	Bucket F648
Capacity SAE	0.82 m ³	0.92 m ³	1.12 m ³
Cutting width	1,000 mm	1,100 mm	1,300 mm
Max. reach support/dozer blade	6.5 m	7.0 m	5.0 m

Working ranges Monoblock boom (C66.3M)



	STICK LENGTHS	
	2.20 m (D66.2)	2.70 m (D66.3)
A	Bucket	Bucket
B	7.75 m	8.05 m
C	6,45	6,45
D	5.70 m	6.30 m
E	5.70 m	6.30 m
F	7.50 m	8.00 m
G	8.90 m	9.50 m
H	4.15 m	4.50 m
I	9.10 m	9.50 m
J	9.10 m	9.50 m
K	4.30 m	4.80 m
L	Max. bucket digging force	Max. bucket digging force
M	122 kN	122 kN
N	Max. stick digging force	Max. stick digging force
O	92 kN	81 kN
P	Grab clamping force	Grab clamping force
Q	-	-
R	Operating Weight	Operating Weight
S	17.1 t	17.2 t

Lifting capacities Monoblock boom (C66.3M)

Lifting capacities Monoblock boom (C66.3M) and stick 2.20 m (D66.2). Tailswing 1,750 mm

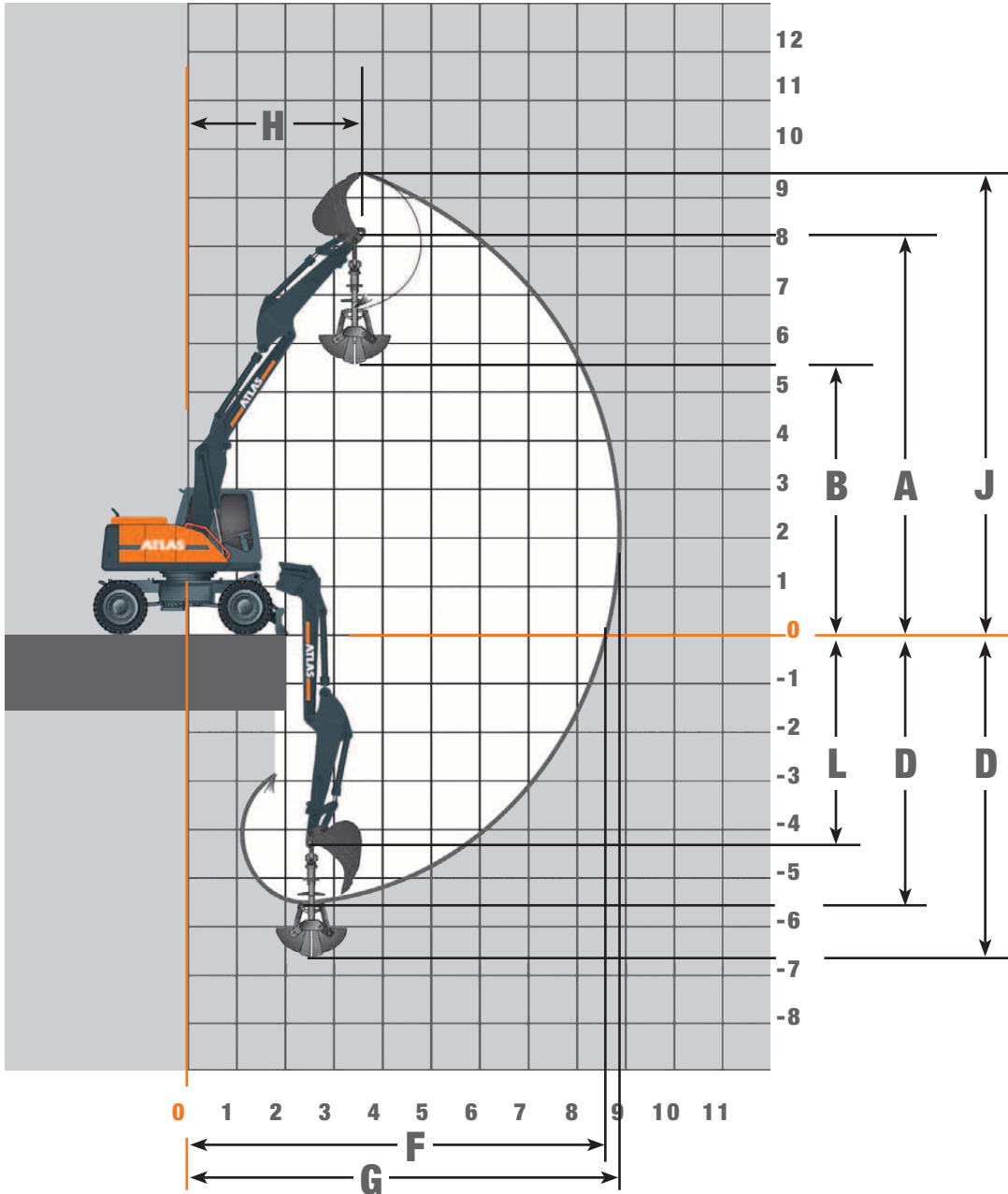
Height		3,0 m		4,0 m		4,5 m		5,0 m		6,0 m		6,5 m		7,0 m	
		FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL
+6,0 m	Supported by blade														
	Traveling							4,1	4,1	4,3	3,2				
+4,5 m	Supported by blade			5,0	5,0	4,8	4,8	4,6	4,2	4,3	3,2				
	Traveling			5,0	5,0	4,8	4,3	4,6	3,7	4,3	2,8				
+3,0 m	Supported by blade			7,0	5,4	6,2	4,6	5,6	4,0	4,9	3,1	4,5	2,5		
	Traveling			7,0	4,7	6,2	4,0	5,6	3,5	4,4	2,7	3,5	2,2		
+1,5 m	Supported by blade			8,8	5,1	7,5	4,4	6,6	3,8	5,5	3,0	4,8	2,4	3,8	2,2
	Traveling			7,8	4,4	6,5	3,8	5,6	3,3	4,3	2,6	3,5	2,1	3,1	1,9
+0 m	Supported by blade			9,3	5,0	8,1	4,2	7,1	3,7	5,8	2,9	4,9	2,4		
	Traveling			7,6	4,3	8,4	3,6	5,4	3,2	4,2	2,5	3,4	2,1		
-1,5 m	Supported by blade	11,7	7,8	8,9	5,0	7,9	4,2	7,1	3,7	5,7	2,9				
	Traveling	11,7	6,5	7,7	4,3	6,4	3,6	5,4	3,2	4,2	2,5				
-3,0 m	Supported by blade	9,9	7,9	7,7	5,1	6,8	4,3	6,1	3,8						
	Traveling	9,9	6,7	7,7	4,4	6,5	3,7	5,5	3,3						

Lifting capacities Monoblock boom (C66.3M) and stick 2.70 m (D66.3). Tailswing 1,750 mm

Height		3,0 m		4,0 m		4,5 m		5,0 m		6,0 m		6,5 m		7,0 m	
		FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL
+6,0 m	Supported by blade														
	Traveling									3,7	3,3				
+4,5 m	Supported by blade							4,1	4,1	3,9	3,2	2,2	2,2		
	Traveling							4,1	3,7	3,9	2,9	2,2	2,0		
+3,0 m	Supported by blade	8,9	8,5	6,3	5,6	5,6	4,7	5,1	4,0	4,5	3,1	4,1	2,3		
	Traveling	8,9	7,3	6,3	4,6	5,6	4,1	5,1	3,5	4,4	2,7	3,2	2,0		
+1,5 m	Supported by blade			8,3	5,2	7,1	4,4	6,3	3,8	5,2	3,0	4,4	2,2	2,6	2,0
	Traveling			7,9	4,5	5,6	3,8	5,6	3,3	4,3	2,6	3,1	1,9	2,6	1,8
+0 m	Supported by blade	7,2	7,2	9,2	5,0	7,9	4,2	7,0	3,7	5,7	2,9	4,5	2,2		
	Traveling	7,2	6,4	7,6	4,3	6,4	3,7	5,4	3,2	4,2	2,5	3,1	1,9		
-1,5 m	Supported by blade	12,1	7,7	9,1	4,9	8,0	4,2	7,1	3,6	5,8	2,9				
	Traveling	12,1	6,5	7,6	4,2	6,3	3,6	5,4	3,1	4,2	2,5				
-3,0 m	Supported by blade	10,9	7,8	8,3	5,0	7,3	4,3	6,5	3,7	5,1	2,9				
	Traveling	10,9	6,6	7,7	4,3	6,4	3,7	5,5	3,2	4,1	2,5				

All values in kilogrammes (kg) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. These values are applicable at the top of the arm with optimum positioning of the corresponding boom.

Working ranges Adjustable boom (C66.41)



STICK LENGTHS	2.20 m (D66.2)		2.70 m (D66.3)	
	Bucket	Grabs	Bucket	Grabs
A Bucket pivot point	8.10 m	8.10 m	8.45 m	8.45 m
B Max. dumping height	-	5.60 m	-	5.95 m
D Max digging depth	5.50 m	6.60 m	6.00 m	7.10 m
F Max. reach	7.50 m	7.50 m	8.00 m	8.00 m
G Max. digging reach	8.90 m	8.25 m	9.40 m	8.75 m
H Max. arm position	3.40 m	3.40 m	3.75 m	3.75 m
J Max. reach height	9.50 m	-	9.85 m	-
L Lowest bucket pivot point	4.10 m	4.10 m	4.60 m	4.60 m
Max. bucket digging force	122 kN	-	122kN	-
Max. stick digging force	92 kN	-	81 kN	-
Grab clamping force	-	73 kN	-	73 kN
Operating Weight	17.9 t	18.2 t	18.0 t	18.3 t

Lifting capacities Adjustable boom (C66.41)

Lifting capacities Adjustable boom (C66.41) with stick 2.20 m (D66.2). Tailswing 1,750 mm

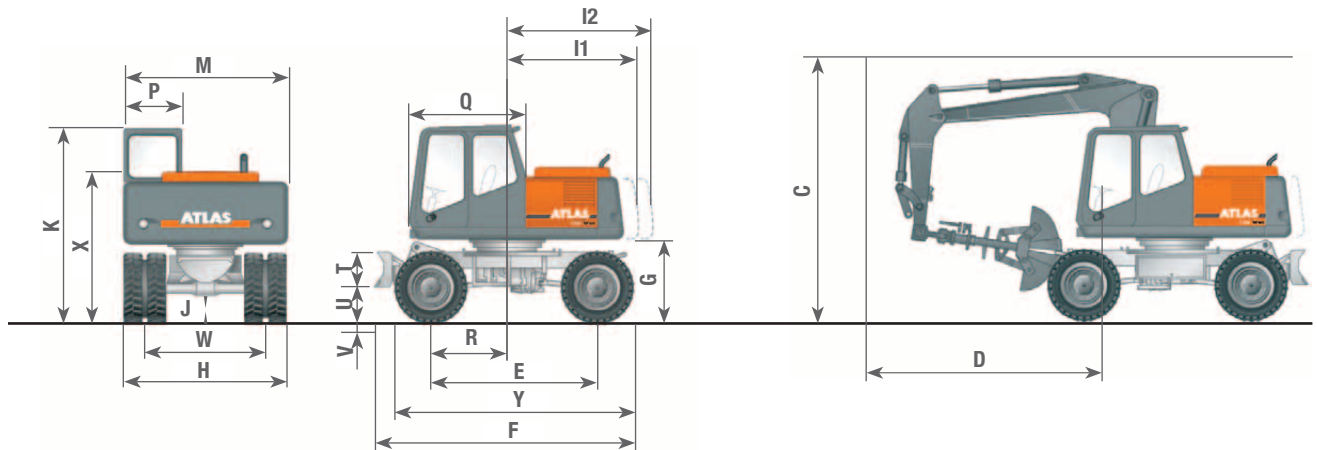
Height		3,0 m		4,0 m		4,5 m		5,0 m		6,0 m		6,5 m		7,0 m	
		FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL
+6,0 m	Supported by blade					4,8	4,8	4,7	4,3	4,6	3,1				
	Traveling					4,8	4,5	4,7	3,8	4,5	2,8				
+4,5 m	Supported by blade			5,8	5,8	5,4	4,9	5,1	4,3	4,6	3,3				
	Traveling			5,8	5,2	5,4	4,4	5,1	3,8	4,5	2,9				
+3,0 m	Supported by blade	9,4	8,5	7,4	5,6	6,5	4,8	5,9	4,2	5,0	3,2	4,5	2,4		
	Traveling	9,4	7,5	7,4	5,0	6,5	4,3	5,8	3,7	4,5	2,9	3,5	2,1		
+1,5 m	Supported by blade	10,8	8,4	8,7	5,6	7,5	4,8	6,6	4,1	5,5	3,1	4,7	2,4	4,1	2,4
	Traveling	10,8	7,3	7,8	4,9	6,6	4,2	5,7	3,7	4,5	2,8	3,7	2,1	3,0	1,8
+0 m	Supported by blade	12,6	8,3	8,9	5,5	7,8	4,6	6,9	4,0	5,6	3,0	4,7	2,3		
	Traveling	12,6	7,0	7,9	4,7	8,6	4,0	5,7	3,5	4,3	2,6	3,3	2,0		
-1,5 m	Supported by blade	12,9	8,0	9,1	5,2	7,9	4,4	7,0	3,8	5,6	2,8				
	Traveling	12,9	6,7	8,0	4,5	6,6	3,8	5,6	3,2	4,2	2,4				
-3,0 m	Supported by blade	13,1	8,0	8,8	5,0	7,3	4,2	6,0	3,6						
	Traveling	13,1	6,7	7,8	4,3	6,4	3,6	5,4	3,1						

Lifting capacities Adjustable boom (C66.41) with stick 2.70 m (D66.3). Tailswing 1,750 mm

Height		3,0 m		4,0 m		4,5 m		5,0 m		6,0 m		6,5 m		7,0 m	
		FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL
+6,0 m	Supported by blade					4,4	4,4	4,5	4,3						
	Traveling					4,4	4,4	4,5	3,8						
+4,5 m	Supported by blade							4,2	4,2	4,1	3,3				
	Traveling							4,2	3,9	4,1	2,9				
+3,0 m	Supported by blade	9,6	8,6	6,8	5,7	6,1	4,8	5,5	4,2	4,8	3,3	4,1	2,2		
	Traveling	9,6	7,5	6,8	5,0	6,1	4,3	5,5	3,7	4,5	2,9	3,2	1,9		
+1,5 m	Supported by blade	10,7	8,4	8,4	5,5	7,2	4,7	6,4	4,1	5,3	3,3	4,3	2,1	2,8	1,9
	Traveling	10,7	7,2	7,8	4,9	6,6	4,2	5,7	3,7	4,4	2,9	3,1	1,9	2,8	1,6
+0 m	Supported by blade	12,2	8,4	8,9	5,5	7,7	4,7	6,8	4,0	5,6	3,1	4,3	2,1		
	Traveling	12,2	7,4	7,8	4,8	6,6	4,1	5,7	3,5	4,4	2,7	3,0	1,8		
-1,5 m	Supported by blade	12,7	8,0	9,0	5,2	7,8	4,4	6,9	3,8	5,7	2,9				
	Traveling	12,7	6,8	8,0	4,5	6,7	3,8	5,7	3,3	4,2	2,5				
-3,0 m	Supported by blade	13,2	7,9	9,3	5,1	8,0	4,2	6,9	3,6	4,6	2,8				
	Traveling	13,2	6,7	7,8	4,4	6,4	3,7	5,4	3,1	4,1	2,4				

All values in kilogrammes (kg) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. These values are applicable at the top of the arm with optimum positioning of the corresponding boom.

Dimensions



C	HEIGHT TRAVEL POSITION Adjustable boom with grab in grab storage.....	4.00 m	M	OVERALL WIDTH OF SUPERSTRUCTURE	2.49 m
D	DISTANCE STEERING WHEEL - BOOM	3.50 m	P	CAB WIDTH	0.94 m
E	WHEEL BASE	2.55 m	Q	CAB LENGTH	1.76 m
F	UNDERCARRIAGE LENGTH	3.95 m	R	DISTANCE RING GEAR - FRONT AXLE	0.97 m
G	CLEARANCE UNDER COUNTERWEIGHT	1.22 m	T	DOZER BLADE HEIGHT	3.50 m
H	DOZER BLADE WIDTH	2.50 m	U	DOZER LIFT ABOVE GROUND	0.48 m
I1	TAILSWING RADIUS	1.75 m	V	DIGGING DEPTH	0.15 m
I2	TAILSWING RADIUS	2.00 m	W	WHEEL BASE	1.88 m
J	GROUND CLEARANCE	0.45 m	X	DISTANCE GROUND LEVEL - STEERING WHEEL	2.45 m
K	OVERALL HEIGHT OF CAB	3.00 m	Y	DISTANCE FRONT TIRE-REAR TIRE	3.66 m

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