

ATLAS

Wheel Excavator 190W

STABLE. STRONG. STEADY.

190W



-  18.9 - 20.8 t
-  116 kW (158 HP)
-  0.76 - 1.3 m³



Technical data

ENGINE

Power rating acc. to ISO 9249116 kW (158 HP)	Displacement.....6700 cm ³	Battery 2 x 12 V / 100 Ah
RPM2000/min	Number of cylinders6	Generator 24 V / 70 Ah
Make / model Cummins/QSB 6.7	Cooling system Water-cooled	Starter..... 24 V / 3.2 kW
Design..... Turbocharger/charge-air cooling	Air filter.....Dry air filter	

HYDRAULIC SYSTEM

• Load limit controlled high-performance pump	• Suction valves for all work functions	• Pipe-break protection valves for lifting cylinders
• Dual-circuit hydraulic system	• Load-retaining and fine lowering valves in lifting circuit	• 2 additional circuits for additional consumer loads possible
• 7 consumer loads in one valve block equipped as standard	• Pump flow control	• Max. oil flow400 l/min
• Sensitive, proportional, independent control	• Proportional grab/grab rotating function	• Max. operating pressure340 (370)* bar
• Primary and secondary protection against overload	• Fuel-efficient flow-on-demand control	• Operating modes: 3 pre-programmed modes (Fine, Eco, Power)

SWING ASSEMBLY

• Swing motor:	Axial piston motor with priority valve	• Max. swing speed11/min
• Swing gear:	Planetary transmission	• Swing torque 63.2 kNm
• Swing brake:	Automatically controlled multi-disc brake	

TRACTION DRIVE AND BRAKES

• Variable displacement motor	• Automotive drive and cruise control	• Tractive force.....91.8 kN
• Power-shift transmission	• Max. speed20 km/h	• Max. gradeability.....55 %
• Double-acting brake valve	• Off-road speed5 km/h	• Dual-circuit brake system Multi-disc
• Travel direction pre-selection via buttons in joystick	• Crawling speed.....1 km/h	• Parking brake Multi-disc

UNDERCARRIAGE

• 40 tons special excavator axles	• 8 tires (twins) 10.00 - 20
• Steering axle with automatic oscillating axle locking	

FILL CAPACITIES

• Fuel tank389 litres	• Engine oil.....20 litres	• Hydraulic system.....290 litres
• Cooling system42 litres	• Hydraulic tank216 litres	

DRIVER'S CAB

• Meets latest safety standards	CONTROL:	CLIMATE CONTROL:
• Extra large entry zone	• Ergonomic joysticks with proportional slide control	• Air conditioning equipped as standard
• Spacious leg room	• Slim steering column, height and tilt adjustable	• Excellent air distribution through optimally arranged nozzles
• Excellent circumferential visibility	• Indicators, controls and operating switches are clearly arranged	
• Preparation for radio installation with mute function		SOUND LEVELS:
DRIVER'S SEAT:	MONITORING:	• ISO 6396 (L _{pA}) in driver's cab 74 dB(A)
• Air-cushioned comfort seat (seat heating optional)	• Operating data display screen	• 2000/14 EG (L _{wA}) ambience level 102 dB(A)
• Arm rests and lumbar support	• Automatic system for monitoring, warning and storage of data	
• Seat adjustable separately from console		

* values when power boost switched on

Working equipment

OPERATING WEIGHTS

	MONOBLOCK BOOM 5.68 m (C21.3M)		ADJUSTABLE BOOM Base arm 1.95 m (C21.41) Boom 3.41 m (C21.46)	
	Stick 2.70 m (D21.2)	Stick 3.20 m (D21.3)	Stick 2.15 m (D21.23)	Stick 2.65 m (D21.33)
Support and dozer blade	18.9 t	18.9 t	19.2 t	19.2 t
SDB / outriggers	20.3 t	20.3 t	20.6 t	20.6 t
4 outriggers	20.5 t	20.5 t	20.8 t	20.8 t

Operating weight incl. driver, fuel, lubricants and coolant plus 1.0 ton for attachments

EQUIPMENT

BASIC UNIT ATLAS 190W (can be combined)		
• Wheel Excavator 190W with support and dozer blade and 2 lifting cylinders (A19.2) • Wheel Excavator 190W with 4x outrigger support and 2 lifting cylinders (A19.32) • Wheel Excavator 190W with support and dozer blade on rigid axle, 2x outrigger support on steering axle and 2 lifting cylinders (A19.33) • Wheel Excavator 190W with support and dozer blade on steering axle, 2x outrigger support on rigid axle and 2 lifting cylinders (A19.35) * SDB = support and dozer blade	STANDARD EQUIPMENT:	• Bottle holder
	Engine:	• Rear area security camera with 5" LCD color monitor
	• Automatic idling system	• Slim steering column, height and tilt adjustable
	• Diesel pre-filter	• Seat can be adjusted separately from console
	• Engine monitoring	• Heat-absorbing glass, tinted windows • Automotive drive and cruise control • Operating data display screen
BOOMS:		
• Monoblock boom with stick cylinder 5.68 m (C21.3M) • Adjustable boom consisting of base arm 1.95 m (C21.41) with adjusting cylinder plus boom 3.41 m (C21.46) with stick cylinder	Hydraulic system:	
	• Proportional grab/grab rotating function	
	• Accumulator for emergency lowering of boom system	EQUIPMENT:
	• Pipe break protection valves for lifting cylinders	• Joint bearings in stick and bucket cylinders
STICKS:	• Max. load-limit control	• Combined lubricating points for swing bearing and arm equipment
• Stick 2.70 m (D21.2) for monoblock boom • Stick 3.20 m (D21.3) for monoblock boom • Stick 2.15 m (D21.23) for adjustable boom • Stick 2.65 m (D21.33) for adjustable boom	• Cylinder end position damping	• Spacious and lockable storage space in superstructure
	Cab:	UNDERCARRIAGE:
	• Air-conditioning • Radio preparation with mute function • Ready for electric cooling box • Different options for storage, compartment for documents	• Power-shift transmission • Wet disc brakes • Toolbox in undercarriage
BUCKET TIPPING CYLINDER:		
• Bucket tipping cylinder with bucket linkage (F64.1)		

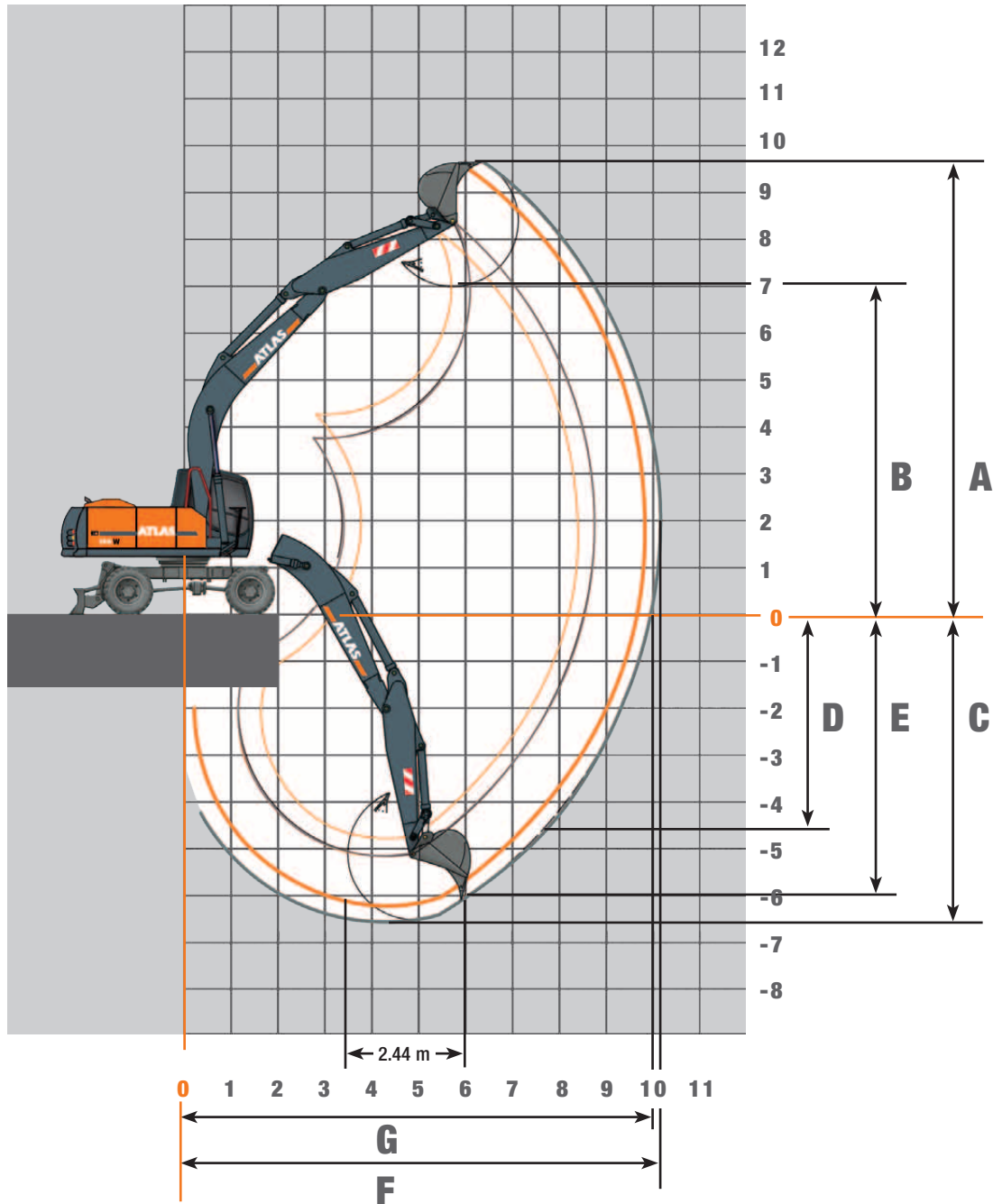
ADDITIONAL EQUIPMENT

Engine:		Working equipment:	Alarm-signal while driving
Refueling pump		Automatically controlled and monitored electric central lubrication system	Head rest
Engine speed adjustment via potentiometer			Proportional operating of supports by slide in joystick
- Auxiliary heating - Cold start assistance	Cab:	- Cab protection guard - Beacon light - Heated driver's seat	Electric cooling box
Hydraulic system:		Radio CD/MP3, front AUX in, USB	Undercarriage:
- Hydraulic kit, to operate front and rear supports separately - Hydraulic kit, to operate supports per axle separately			- Wide axles (overall width 2750 mm) - Wide dozer blade (2750 mm)
Biodegradable oil	- Cab elevation - GPS/GSM telemetric system for monitoring of operating data, consumption, position - Xenon working lights		High-speed version 30 km/h
		Further special equipment: See price list	

ATTACHMENTS (SELECTION)

	Bucket F415	Bucket F416	Bucket F417	Bucket F648
Capacity SAE	0.67 m ³	0.82 m ³	0.92 m ³	1.12 m ³
Cutting width	850 mm	1000 mm	1100 mm	1300 mm

Working ranges Monoblock boom 5.68 m (C21.3M)



STICK LENGTHS	2.70 m (D21.2)	3.20 m (D21.3)
A Max. digging height	9.54 m	9.77 m
B Max. dumping height	6.83 m	7.06 m
C Max digging depth	6.21 m	6.71 m
D Max. vertical wall digging depth	4.20 m	4.65 m
E Max. digging depth of cut for 2.44 m level	5.45 m	6.00 m
F Max. digging reach	9.86 m	10.32 m
G Max. digging reach at ground level	9.30 m	10.10 m
Max. bucket digging force	132 kN	132 kN
Max. stick digging force	92 kN	82 kN

Unit is equipped with monoblock boom 5.68 m (C21.3M).

Lifting capacities Monoblock boom 5.68 m (C21.3M)

Lifting capacities Monoblock boom 5.68 m (C21.3M) and stick 2.70 m (D21.2). Max reach 9.86 m

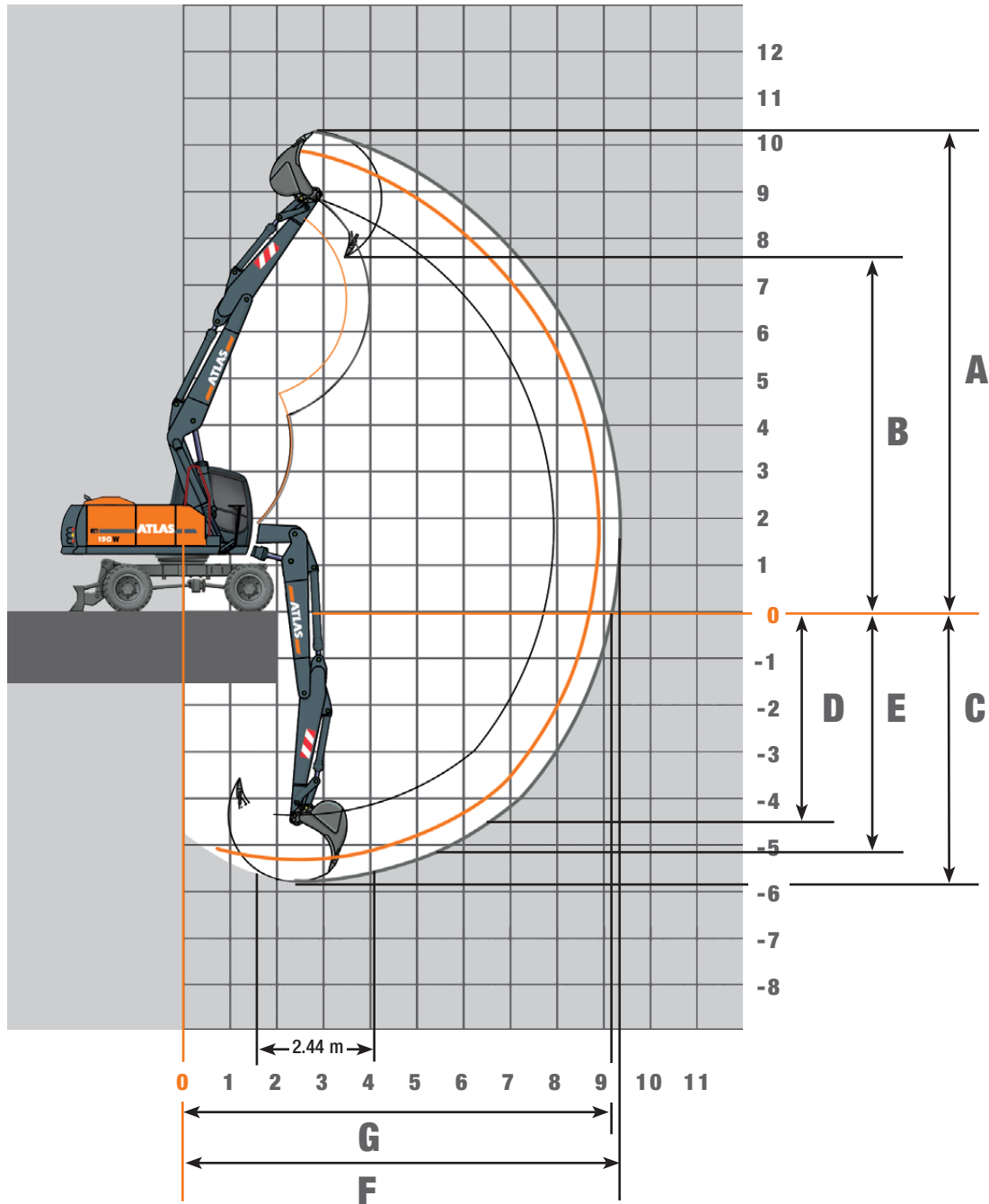
Height	Undercarriage type	3.0 m		4.5 m		6.0 m		7.5 m	
		 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL
+7.5 m	SDB rear, raised					5,3	3,5		
	SDB rear, supported					6,4*	3,8		
	Outriggers rear/front, supported					6,4*	6,4*		
	SDB/outriggers supported					6,4*	5,9		
+6.0 m	SDB rear, raised					5,2	3,5		
	SDB rear, supported					6,6*	3,8		
	Outriggers rear/front, supported					6,6*	6,6*		
	SDB/outriggers supported					6,6*	5,9		
+4.5 m	SDB rear, raised			7,9	5,0	5,1	3,3	3,6	2,3
	SDB rear, supported			8,7*	5,6	7,2*	3,7	6,6*	2,6
	Outriggers rear/front, supported			8,7*	8,7*	7,2*	7,2*	5,4	5,2
	SDB/outriggers supported			8,7*	8,7*	7,2*	5,7	6,6*	4,1
+ 3.0 m	SDB rear, raised			7,3	4,5	4,8	3,1	3,5	2,2
	SDB rear, supported			10,9*	5,1	8,2*	3,4	6,7	2,5
	Outriggers rear/front, supported			11,0*	11,0*	7,5	7,1	5,3	5,0
	SDB/outriggers supported			11,0*	8,4	8,2*	5,5	7,0*	4,0
+ 1.5 m	SDB rear, raised			6,8	4,1	4,6	2,9	3,4	2,1
	SDB rear, supported			12,7*	4,6	9,2*	3,2	6,6	2,4
	Outriggers rear/front, supported			11,5	10,8	7,3	6,8	5,2	4,9
	SDB/outriggers supported			12,7*	7,9	9,2*	5,2	6,8	3,8
+ 0 m	SDB rear, raised			6,6	3,9	4,4	2,7	3,3	2,0
	SDB rear, supported			13,3*	4,4	9,3	3,1	6,5	2,3
	Outriggers rear/front, supported			11,3	10,5	7,1	6,7	5,1	4,8
	SDB/outriggers supported			13,3*	7,7	9,6*	5,1	6,7	3,8
- 1.5 m	SDB rear, raised	8,9*	7,1	6,6	3,9	4,4	2,7	3,3	2,0
	SDB rear, supported	8,9*	8,2	12,8*	4,4	9,2	3,0	6,5	2,3
	Outriggers rear/front, supported	8,9*	8,9*	11,3	10,5	7,0	6,6	5,1	4,8
	SDB/outriggers supported	8,9*	8,9*	12,8*	7,7	9,5*	5,0	6,7	3,8
- 3.0 m	SDB rear, raised	13,6	7,2	6,7	4,0	4,5	2,8		
	SDB rear, supported	15,5*	8,4	11,4*	4,5	8,5*	3,1		
	Outriggers rear/front, supported	15,5*	15,5*	11,4*	10,7	7,1	6,7		
	SDB/outriggers supported	15,5*	15,5*	11,4*	7,8	8,5*	5,1		
- 4.5 m	SDB rear, raised			7,0	4,2				
	SDB rear, supported			8,2*	4,8				
	Outriggers rear/front, supported			8,2*	8,2*				
	SDB/outriggers supported			8,2*	8,1				

Lifting capacities Monoblock boom 5.68 m (C21.3M) and stick 2.70 m (D21.2). Max reach 9.86 m

Height	Undercarriage type	3.0 m		4.5 m		6.0 m		7.5 m	
		 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL
+7.5 m	SDB rear, raised								
	SDB rear, supported								
	Outriggers rear/front, supported								
	SDB/outriggers supported								
+6.0 m	SDB rear, raised							3,7	2,4
	SDB rear, supported							5,3*	2,7
	Outriggers rear/front, supported							5,3*	5,3
	SDB/outriggers supported							5,3*	4,2
+4.5 m	SDB rear, raised					5,1	3,3	3,6	2,3
	SDB rear, supported					6,7*	3,7	6,1*	2,6
	Outriggers rear/front, supported					6,7*	6,7*	5,5	5,2
	SDB/outriggers supported					6,7*	5,8	6,1*	4,1
+ 3.0 m	SDB rear, raised			7,4	4,6	4,8	3,1	3,5	2,2
	SDB rear, supported			10,0*	5,1	7,7*	3,4	6,6*	2,5
	Outriggers rear/front, supported			10,1*	10,1*	7,6	7,1	5,3	5,1
	SDB/outriggers supported			10,1*	8,5	7,7*	5,5	6,6*	3,9
+ 1.5 m	SDB rear, raised			6,8	4,1	4,6	2,8	3,3	2,1
	SDB rear, supported			12,1*	4,6	8,7*	3,2	6,5	2,3
	Outriggers rear/front, supported			11,6	10,8	7,2	6,8	5,2	4,9
	SDB/outriggers supported			12,1*	7,9	8,8*	5,2	6,8	3,8
+ 0 m	SDB rear, raised			6,5	3,8	4,4	2,6	3,2	2,0
	SDB rear, supported			13,0*	4,3	9,2	3,0	6,4	2,2
	Outriggers rear/front, supported			11,2	10,4	7,0	6,6	5,1	4,8
	SDB/outriggers supported			13,0*	7,6	9,4*	5,0	6,7	3,7
- 1.5 m	SDB rear, raised			6,4	3,7	4,3	2,6	3,2	2,0
	SDB rear, supported			12,9*	4,3	9,1	2,9	6,4	2,2
	Outriggers rear/front, supported			11,1	10,3	6,9	6,5	5,0	4,7
	SDB/outriggers supported			12,9*	7,5	9,5	4,9	6,6	3,7
- 3.0 m	SDB rear, raised	13,2	6,9	6,5	3,8	4,3	2,6		
	SDB rear, supported	13,7*	8,0	11,8*	4,3	8,8*	3,0		
	Outriggers rear/front, supported	13,8*	13,8*	11,2	10,4	7,0	6,6		
	SDB/outriggers supported	13,8*	13,8*	11,8*	7,6	8,8*	5,0		
- 4.5 m	SDB rear, raised	13,0*	7,2	6,8	4,0	4,5	2,8		
	SDB rear, supported	13,0*	8,4	9,4*	4,6	6,6*	3,1		
	Outriggers rear/front, supported	12,9*	12,9*	9,4*	9,4*	6,5*	6,5*		
	SDB/outriggers supported	12,9*	12,9*	9,4*	7,9	6,5*	5,2		

All values in kilograms (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 arm system and with power boost switched on. *Value limited due to hydraulics.

Working ranges Adjustable boom: Base arm 1.95 m (C21.41) and boom 3.41 m (C21.46)



STICK LENGTHS	2.15 m (D21.23)	2.65 m (D21.33)
A Max. digging height	9.90 m	10.30 m
B Max. dumping height	7.20 m	7.60 m
C Max digging depth	5.30 m	5.80 m
D Max. vertical wall digging depth	3.40 m	4.45 m
E Max. digging depth of cut for 2.44 m level	5.05 m	5.60 m
F Max. digging reach	8.90 m	9.30 m
G Max. digging reach at ground level	8.50 m	9.15 m
Max. bucket digging force	125 kN	118 kN
Max. stick digging force	98 kN	84 kN

Unit is equipped with standard adjustable boom: base arm 1.95 m (C21.41) and boom 3.41 m (C21.46).

Lifting capacities Adjustable boom: Base arm 1.95 m (C21.41) and boom 3.41 m (C21.46)

Lifting capacities Adjustable boom: Base arm 1.95 m (C21.41) and boom 3.41 m (C21.46) with stick 2.15 m (D21.23). Max reach 8.90 m

Height	Undercarriage type	3.0 m		4.5 m		6.0 m		7.5 m	
		 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL
+7.5 m	SDB rear, raised			6,3*	5,3				
	SDB rear, supported			6,3*	5,9				
	Outriggers rear/front, supported			6,3*	6,3*				
	SDB/outriggers supported			6,3*	6,3*				
+6.0 m	SDB rear, raised			6,2*	5,5	5,2	3,4		
	SDB rear, supported			6,2*	6,0	5,8*	3,8		
	Outriggers rear/front, supported			6,2*	6,2*	5,8*	5,8*		
	SDB/outriggers supported			6,2*	6,2*	5,8*	5,8*		
+4.5 m	SDB rear, raised	9,4*	9,4*	7,0*	5,4	5,3	3,5		
	SDB rear, supported	9,4*	9,4*	7,0*	5,9	6,1*	3,9		
	Outriggers rear/front, supported	9,4*	9,4*	7,0*	7,0*	6,1*	6,1*		
	SDB/outriggers supported	9,4*	9,4*	7,0*	7,0*	6,1*	5,9		
+ 3.0 m	SDB rear, raised	10,1*	9,1	7,8	5,3	5,2	3,5		
	SDB rear, supported	10,1*	10,1*	8,6*	5,8*	6,7*	3,9		
	Outriggers rear/front, supported	10,1*	10,1*	8,6*	8,6*	6,7*	6,7*		
	SDB/outriggers supported	10,1*	10,1*	8,6*	8,6*	6,7*	5,9		
+ 1.5 m	SDB rear, raised	13,1*	9,0	7,7	5,2	5,2	3,4	3,5	2,3
	SDB rear, supported	13,1*	10,1	10,0*	5,7	7,3*	3,8	4,8*	2,5
	Outriggers rear/front, supported	13,1*	13,1*	10,0*	10,0*	7,3*	7,2	4,8*	4,8*
	SDB/outriggers supported	13,1*	13,1*	10,0*	8,7*	7,3*	5,9	4,8*	4,0
+ 0 m	SDB rear, raised	14,9	8,9	7,8	5,1	5,0	3,2		
	SDB rear, supported	15,9*	10,1	10,4*	5,6	7,5*	3,6		
	Outriggers rear/front, supported	15,9*	15,9*	10,4*	10,4*	7,5	7,2		
	SDB/outriggers supported	15,9*	15,9*	10,4*	8,8	7,5*	5,7		
- 1.5 m	SDB rear, raised	15,2	8,5	7,6	4,8	4,8	3,1		
	SDB rear, supported	17,0*	9,7	10,5*	5,3	7,5*	3,4		
	Outriggers rear/front, supported	17,0*	17,0*	10,5*	10,5*	7,5*	7,1		
	SDB/outriggers supported	17,0*	17,0*	10,5*	8,8	7,5*	5,5		
- 3.0 m	SDB rear, raised	14,9	8,3	7,4	4,5				
	SDB rear, supported	17,2*	9,5	9,9*	5,1				
	Outriggers rear/front, supported	17,2*	17,2*	9,9*	9,9*				
	SDB/outriggers supported	17,2*	17,2*	9,9*	8,5				
- 4.5 m	SDB rear, raised								
	SDB rear, supported								
	Outriggers rear/front, supported								
	SDB/outriggers supported								

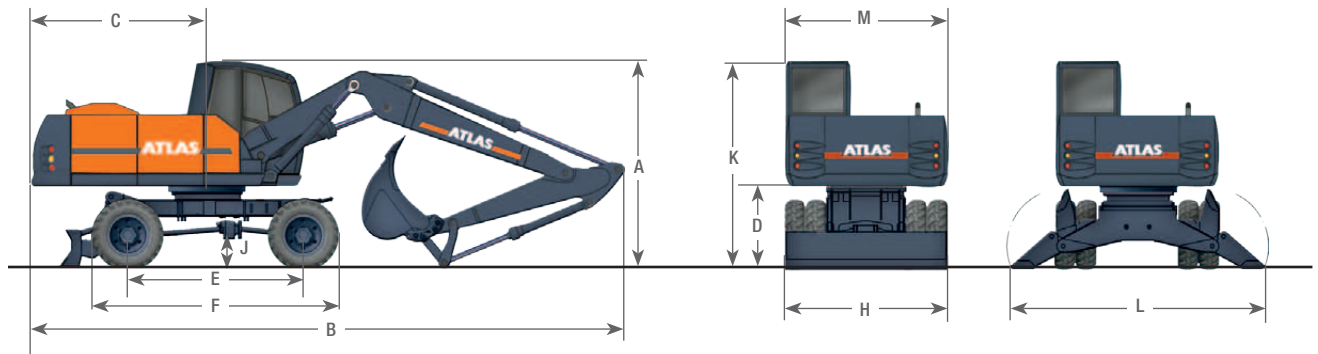
Lifting capacities Adjustable boom: Base arm 1.95 m (C21.41) and boom 3.41 m (C21.46) with stick 2.65 m (D21.33). Max reach 9.30 m

Height	Undercarriage type	3.0 m		4.5 m		6.0 m		7.5 m	
		 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL	 FRONT	 LATERAL
+7.5 m	SDB rear, raised								
	SDB rear, supported								
	Outriggers rear/front, supported								
	SDB/outriggers supported								
+6.0 m	SDB rear, raised			5,7*	5,5				
	SDB rear, supported			5,7*	5,7*				
	Outriggers rear/front, supported			5,7*	5,7*				
	SDB/outriggers supported			5,7*	5,7*				
+4.5 m	SDB rear, raised			5,5*	5,5*	5,3	3,6		
	SDB rear, supported			5,5*	5,5*	5,4*	4,0		
	Outriggers rear/front, supported			5,5*	5,5*	5,4*	5,4*		
	SDB/outriggers supported			5,5*	5,5*	5,4*	5,4*		
+ 3.0 m	SDB rear, raised	6,8*	6,8*	6,4*	5,4	5,3	3,7*	3,1*	2,4
	SDB rear, supported	6,8*	6,8*	6,4*	6,0*	5,7*	4,0	3,1*	2,7
	Outriggers rear/front, supported	6,8*	6,8*	6,4*	6,4*	5,7*	5,7*	3,1*	3,1*
	SDB/outriggers supported	6,8*	6,8*	6,4*	6,4*	5,7*	5,7*		
+ 1.5 m	SDB rear, raised	10,1*	9,2	7,8	5,3	5,2	3,6	3,7	2,4
	SDB rear, supported	10,1*	10,1*	8,0*	5,8*	6,3*	4,0	5,5*	2,7
	Outriggers rear/front, supported	10,2*	10,2*	8,0*	8,0*	6,3*	6,3*	5,5*	5,3
	SDB/outriggers supported	10,2*	10,2*	8,0*	8,0*	6,3*	5,8		4,2
+ 0 m	SDB rear, raised	12,9*	9,0*	7,7	5,2	5,2	3,6	3,6	2,4
	SDB rear, supported	12,9*	10,1	9,6*	5,7	7,0*	3,9	5,5	2,6
	Outriggers rear/front, supported	12,9*	12,9*	9,6*	9,6*	7,0*	7,0*	5,8*	5,2
	SDB/outriggers supported	12,9*	12,9*	9,6*	8,7	7,0*	5,8		4,1
- 1.5 m	SDB rear, raised	14,7	9,0	7,7	5,2	5,1	3,4	3,5	2,3
	SDB rear, supported	15,2*	10,1	10,3*	5,7	7,4*	3,7	5,8*	2,5
	Outriggers rear/front, supported	15,2*	15,2*	10,3*	10,3*	7,4*	7,2	5,4	5,1
	SDB/outriggers supported	15,2*	15,2*	10,3*	8,7	7,4*	5,8	5,8*	4,0
- 3.0 m	SDB rear, raised	15,0	8,6	7,8	4,9	4,9	3,1		
	SDB rear, supported	16,8*	9,8	10,4*	5,4	7,6*	3,5		
	Outriggers rear/front, supported	16,8*	16,8*	10,4*	10,4*	7,6*	7,2		
	SDB/outriggers supported	16,8*	16,8*	10,4*	8,9	7,6*	5,6		
- 4.5 m	SDB rear, raised	15,1	8,4	7,4	4,6	4,8	3,0		
	SDB rear, supported	17,4*	9,6	10,6*	5,1	6,4*	3,4		
	Outriggers rear/front, supported	17,4*	17,4*	10,6*	10,6*	6,3*	6,3*		
	SDB/outriggers supported	17,4*	17,4*	10,6*	8,6	6,3*	5,5		

All values in kilograms (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 arm system and with power boost switched on.

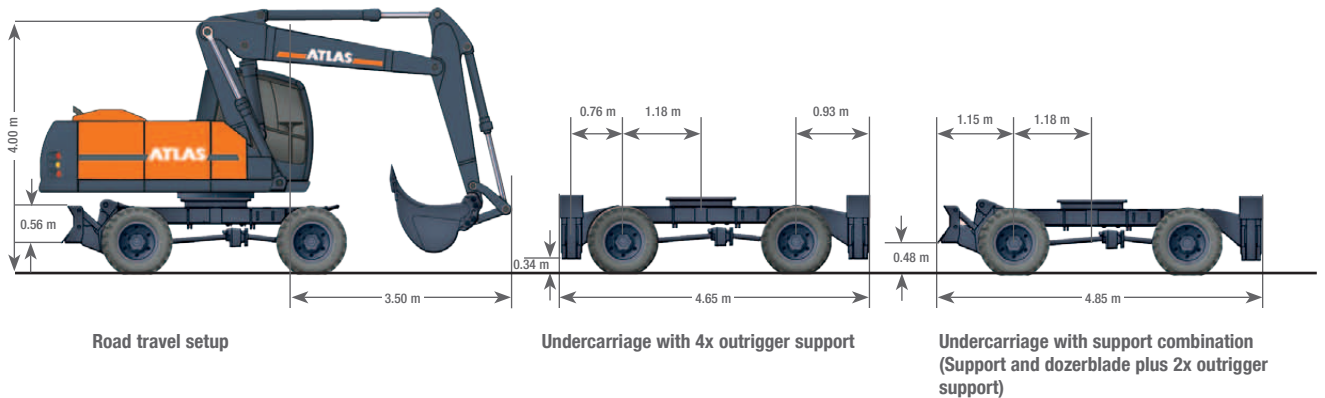
*Value limited due to hydraulics.

Dimensions



A	TRANSPORT HEIGHT (with bucket)		C	TAIL SWING RADIUS.....		2.60 m				
	Adjustable boom* with stick 2.15 m	3.15 m		D	CLEARANCE UNDER COUNTERWEIGHT		1.23 m			
	Adjustable boom* with stick 2.65 m	3.15 m			E			WHEEL BASE		2.60 m
	Monoblock boom 4.32 m with stick 2.15 m.....	3.15 m						F	UNDERCARRIAGE LENGTH	
Monoblock boom 4.32 m with stick 2.65 m.....	3.15 m	H	DOZER BLADE WIDTH			2.49 m				
B	TRANSPORT LENGTH		J	GROUND CLEARANCE.....			0.42 m			
	Adjustable boom* with stick 2.15 m			8.91 m	K				OVERALL HEIGHT OF CAB	
	Adjustable boom* with stick 2.65 m			8.95 m				L	OUTRIGGERS WIDTH (extended).....	
	Monoblock boom 4.32 m with stick 2.15 m.....	9.52 m		M		OVERALL WIDTH OF SUPERSTRUCTURE.....			2.49 m	
Monoblock boom 4.32 m with stick 2.65 m.....	9.56 m									

* Adjustable boom: Base arm 1.95 m (C21.41) and boom 3.41 m (C21.46)



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