



ATLAS

SINCE 1919

**STABLE.
STRONG.
STEADY.**

 16.0 - 17.8 t

 105 kW (143 HP)

 0.7 - 1.3 m³



WHEELED EXCAVATOR 160W

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TECHNICAL SPECIFICATION 160W

Technical specifications

ENGINE

Power rating 105 kW (143 HP)	Number of cylinders 6	Alternator 24 V / 100 Ah
RPM 1800/min	Bore / cylinder stroke 101 / 126	Starter 24 V / 4.8 kW
Make / model Deutz TCD 6.1 (Tier 4F)	Cooling system Water-cooled	
Design Turbocharger / charge-air cooling	Air filter Dry air filter	
Displacement 6057 cm ³	Battery 2 x 12 V / 100 Ah	

HYDRAULIC SYSTEM

• AWE 5 system (Load sensing)	• Suction valves for all work functions	• 2 additional circuits for additional consumer loads possible
• Load limit controlled high-performance pump	• Load-retaining and fine lowering valves in lifting circuit	• Max. oil flow 260 l/min
• Fuel-efficient flow-on-demand control	• Pipe break protection valves for lifting and articulated cylinders	• Max. operating pressure 350 bar
• Sensitive, proportional, independent control	• Proportional grab/grab rotating function	• Operating modes: 3 pre-programmed modes (Fine, Eco, Power)
• Primary and secondary protection against overload		

SWING ASSEMBLY

A hydrostatic drive with a 2-tier planetary gear and an axial piston motor acts like a wear-resistant service brake. Additional spring-mechanism multi-disc brake as a parking brake.

- Max. swing speed 9/min
- Swing torque 41 kNm

TRACTION DRIVE AND BRAKES

• Variable displacement motor	• Automotive drive:	• Tractive force 92.7 kN
• Power-shift transmission	• Max. speed 20 km/h	• Max. gradeability 55 %
• Double-acting brake valve	• Off-road speed 5 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
	• High-speed execution 35 km/h	

UNDERCARRIAGE

• 28 tons special excavator axles	• 8 tires (twins) 10.00 - 20	• 4 tires (optional) 710 - 22.5
• Steering axle with automatic oscillating axle locking		

FILL CAPACITIES

• Fuel tank 301 litres	• Engine oil 14 litres	• Hydraulic system 220 litres
• Cooling system 38 litres	• Hydraulic tank 180 litres	• Ad Blue 32 litres

DRIVER'S CAB

• Meets latest safety standards (ROPS)	• Seat adjustable separately from console	CLIMATE CONTROL:
• Extra large entry zone	CONTROL:	• Air conditioning equipped as standard
• Spacious leg room	• Ergonomic joysticks with proportional slide control	• Excellent air distribution through optimally arranged nozzles
• Excellent circumferential visibility	• Slim steering column, height and tilt adjustable	
• Preparation for radio installation with mute function	• Indicators, controls and operating switches are clearly arranged	SOUND LEVELS:
		• ISO 6396 (L _{pA}) in driver's cab 72 dB(A)
DRIVER'S SEAT:	MONITORING:	• 2000/14 EG (L _{wA}) ambience level...97 dB(A)
• Air-cushioned comfort seat (seat heating optional)	• Operating data display screen	
• Arm rests and lumbar support	• Automatic system for monitoring, warning and storage of data	

WORKING EQUIPMENT 160W

Working equipment

OPERATING WEIGHTS				
	MONOBLOCK BOOM 4.32 m (C6.3M)		ADJUSTABLE BOOM Base arm 1.87 m (C6.41) Boom 3.10 m (C6.46)	
	Stick 2.15 m (D6.2)	Stick 2.65 m (D6.3)	Stick 2.15 m (D6.2)	Stick 2.65 m (D6.3)
Support and dozer blade	16.0 t	16.1 t	16.4 t	16.5 t
SDB / outriggers	17.1 t	17.2 t	17.5 t	17.6 t
4 outriggers	17.3 t	17.4 t	17.7 t	17.8 t

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

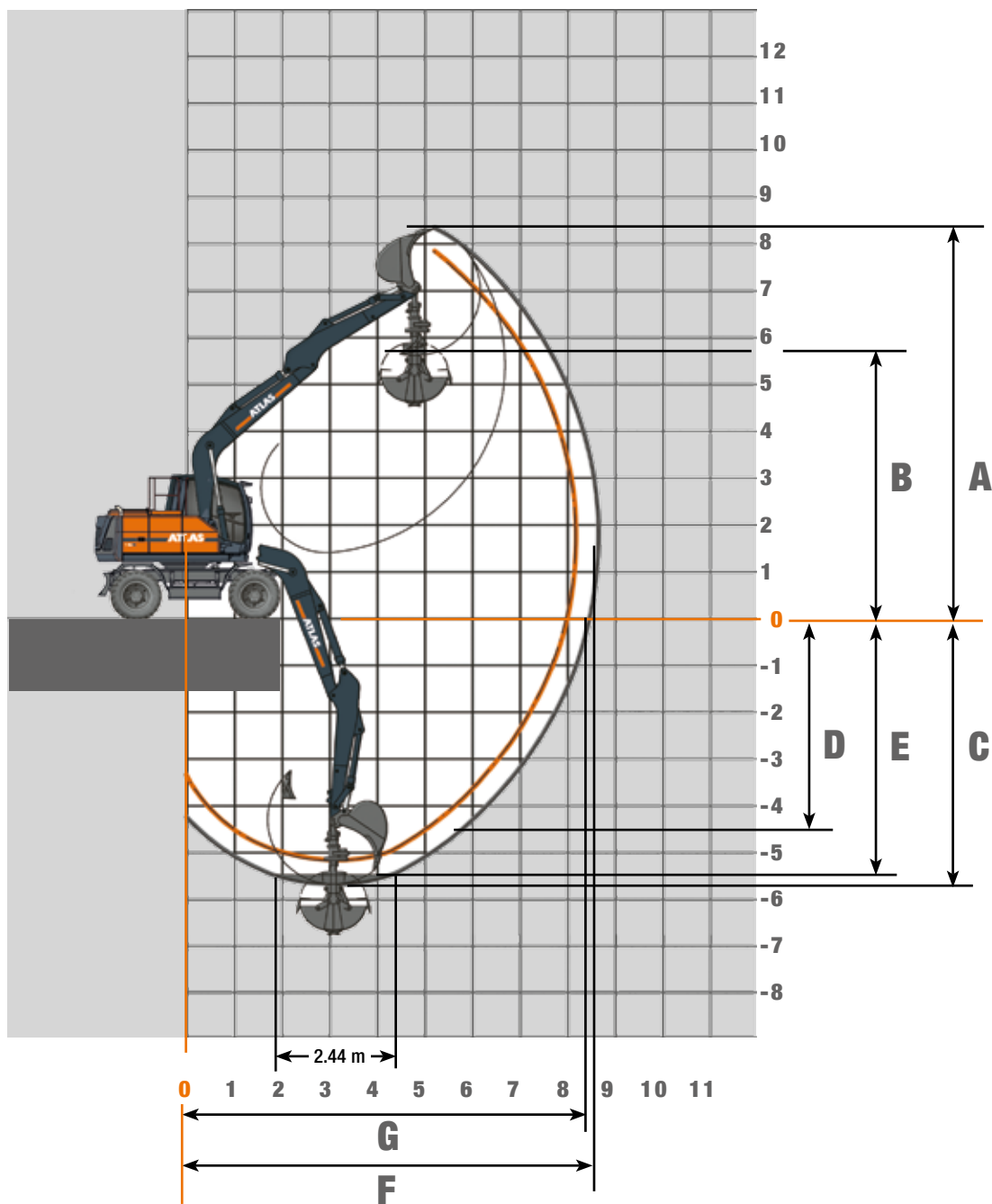
EQUIPMENT		
BASIC UNIT ATLAS 160W (can be combined) <ul style="list-style-type: none"> Wheel Excavator 160W with support and dozer blade (SDB) and 2 lifting cylinders (A6.2) SDB = support and dozer blade	STANDARD EQUIPMENT: <ul style="list-style-type: none"> Engine: <ul style="list-style-type: none"> Automatic idling system Diesel pre-filter Engine monitoring Cold start assistance 	<ul style="list-style-type: none"> Ready for electric cooling box Different options for storage, compartment for documents Seat adjustable separately from console Rear view security camera Right side camera Heat-absorbing glass, tinted windows Automotive drive
BOOMS: <ul style="list-style-type: none"> Monoblock boom with stick cylinder 4.32 m (C6.3M) Adjustable boom consisting of base arm 1.87 m (C6.41) adjustable cylinder plus boom 3.10 m (C6.46) with stick cylinder 	HYDRAULIC SYSTEM: <ul style="list-style-type: none"> Proportional grab/grab rotating function Accumulator for emergency lowering of boom system Pipe break protection valves for lifting and articulated cylinders Max. load-limit control Cylinder end position damping 	<ul style="list-style-type: none"> Operating data display screen Bottle holder Automatic working brake
STICKS: <ul style="list-style-type: none"> Stick 2.15 m (D6.2) Stick 2.65 m (D6.3) 	Cab: <ul style="list-style-type: none"> Air-conditioning Preparation for radio installation with mute function Slim steering column, height and tilt adjustable 	EQUIPMENT: <ul style="list-style-type: none"> Joint bearings in stick and bucket cylinders Combined lubricating points for swing bearing and arm equipment
BUCKET TIPPING CYLINDER: <ul style="list-style-type: none"> Bucket tipping cylinder with bucket linkage (F6.1) 		UNDERCARRIAGE: <ul style="list-style-type: none"> Power-shift transmission Wet disc brakes Toolbox in undercarriage

ADDITIONAL EQUIPMENT		
Engine: <ul style="list-style-type: none"> Refueling pump Engine speed adjustment via potentiometer Auxiliary heating 	Equipment: <ul style="list-style-type: none"> Automatically controlled and monitored electric central lubrication system for uppercarriage and arm equipment 	<ul style="list-style-type: none"> 270° camera system Cab elevation
Hydraulics: <ul style="list-style-type: none"> Hydraulic kit, to operate front and rear supports separately Hydraulic kit, to operate supports per axle separately Biodegradable oil 	Cab: <ul style="list-style-type: none"> Cab protection guard Beacon light GPS/GSM telemetric system for monitoring of operating data, consumption, position Heated driver's seat Radio CD/MP3, front AUX in, USB Electric cooling box Joystick steering 	<ul style="list-style-type: none"> LED working lights Proportional control of supports by slide in joystick
		Undercarriage: <ul style="list-style-type: none"> Wide axles (overall width 2750 mm) Wide dozer blade (2750 mm) Gear protection High-speed option 37 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 160W

Working ranges Monoblock boom 4.32 m (C6.3M)





















STICK LENGTHS	2.15 m (D6.2)	2.5 m (D6.3)
A Max. digging height	8.10 m	8.35 m
B Max. dumping height	5.35 m	5.65 m
C Max digging depth	5.20 m	5.70 m
D Max. vertical wall digging depth	4.05 m	4.55 m
E Max. digging depth of cut for 2.44 m level	4.95 m	5.50 m
F Max. digging reach	8.25 m	8.70 m
G Max. digging reach at ground level	8.05 m	8.50 m
Max. bucket digging force	130 kN	130 kN
Max. stick digging force	82 kN	72 kN

Unit is equipped with monoblock boom 4.32 m (C6.3M).



















LIFTING CAPACITIES 160W

Lifting capacities Monoblock boom 4.32 m (C6.3M)

Lifting capacities Monoblock boom 4.32 m (C6.3M) and stick 2.15 m (D6.2). Max reach 8.20 m

Height	Undercarriage type		2.5 m	3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m
+ 5.0 m	FRONT 	SDB rear, supported							4195		
	LATERAL 	SDB front, raised							4195		
+ 4.0 m	FRONT 	SDB supported						4504	4338	4228	
	LATERAL 	SDB raised						4504	4338	4020*	3570*
+ 3.0 m	FRONT 	SDB rear, supported			6809	5963	5382	4964	4652	4418	4251
	LATERAL 	SDB front, raised			6809	5963	5382	4964	4652	4418	4251
+ 2.0 m	FRONT 	SDB supported			8168	6915	6067	5460	5008	4660	4386
	LATERAL 	SDB raised			8164*	6763*	5749*	4981*	4378*	3892*	3488*
+ 1.0 m	FRONT 	SDB supported			7912*	6564*	5595*	4863*	4288*	3825*	3443*
	LATERAL 	SDB raised			6817*	5707*	4896*	4274*	3781*	3380*	3047*
+ 0 m	FRONT 	SDB rear, supported		7473	9006	7733	6759	5999	5392	4885	4143
	LATERAL 	SDB front, raised		7473	9006	7733	6759	5999	5392	4885	4143
- 1.0 m	FRONT 	SDB supported	8120	9930*	7818*	6446*	5483*	4769*	4219*	3789*	
	LATERAL 	SDB raised	8120	8436*	6728*	5595*	4787*	4183*	3714*	3345*	
- 2.0 m	FRONT 	SDB rear, supported	10191	8825	7706	6768	5961	5228	4445		
	LATERAL 	SDB front, raised	10191	8825	7706	6768	5961	5228	4445		
- 3.0 m	FRONT 	SDB supported	7787	6855	6019	5220	4339				
	LATERAL 	SDB raised	7787	6855	6019	5220	4339				

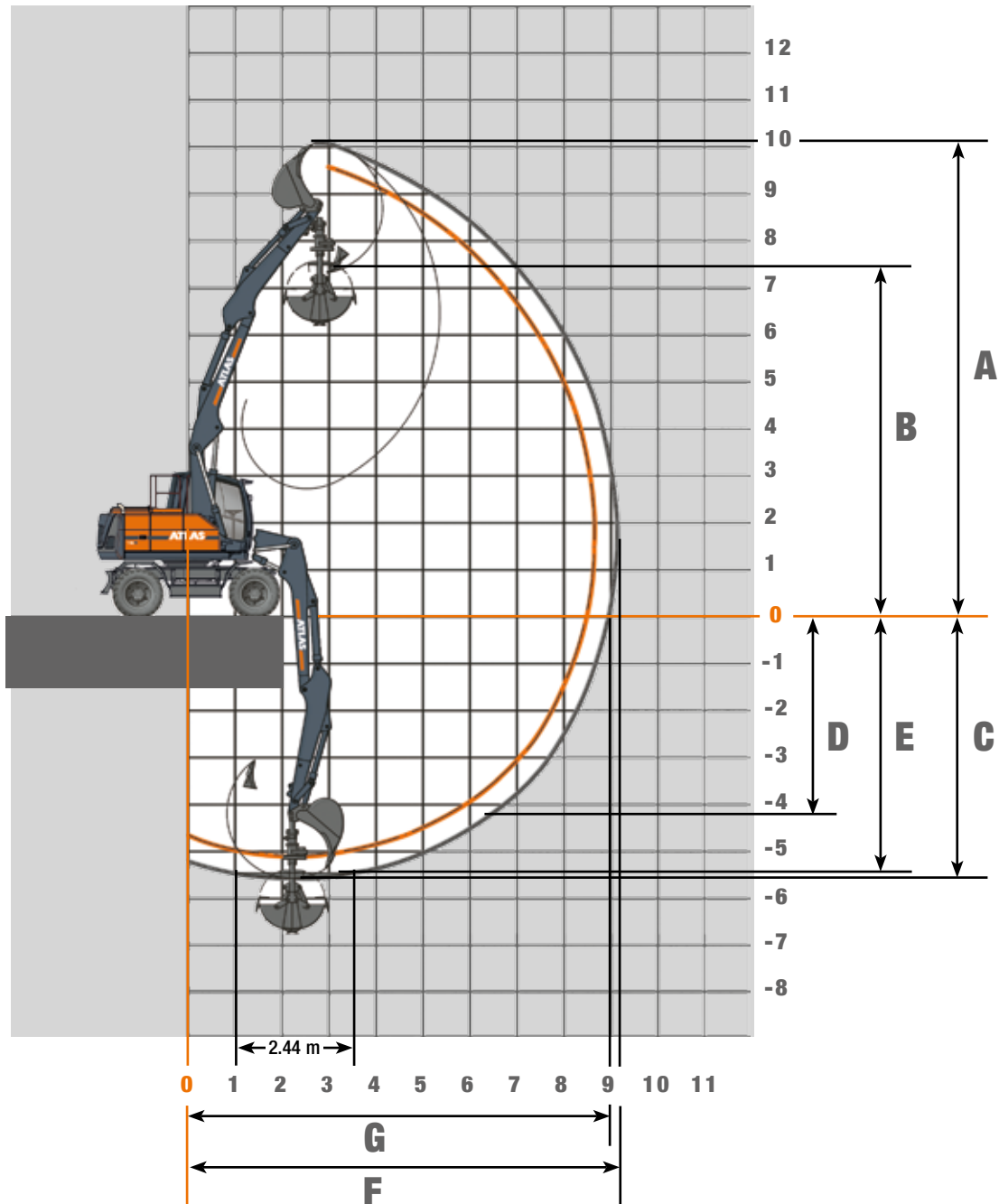
Lifting capacities Monoblock boom 4.32 m (C6.3M) and stick 2.65 m (D6.3). Max reach 8.70 m

Height	Undercarriage type		2.5 m	3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m	7.0 m
+ 5.0 m	FRONT 	SDB rear, supported								3762	1902	
	LATERAL 	SDB front, raised								3762	1902	
+ 4.0 m	FRONT 	SDB supported							3958	3870	3817	
	LATERAL 	SDB raised							3958	3870	3605*	3204*
+ 3.0 m	FRONT 	SDB rear, supported						4571	4317	4120	3969	3152
	LATERAL 	SDB front, raised						4571	4317	4120	3969	3152
+ 2.0 m	FRONT 	SDB supported			7464	6394	5660	5129	4729	4420	4176	3896
	LATERAL 	SDB raised			7464	6394	5660	5129	4729	4420	4176	3896
+ 1.0 m	FRONT 	SDB supported			8523	7212	6287	5607	5091	4685	4356	4027
	LATERAL 	SDB raised			8523	7212	6287	5607	5091	4685	4356	4027
+ 0 m	FRONT 	SDB supported			7959*	6594*	5612*	4871*	4289*	3821*	3434*	3110*
	LATERAL 	SDB raised			6859*	5734*	4911*	4280*	3780*	3374*	3038*	2753*
- 1.0 m	FRONT 	SDB rear, supported		7828	8936	7618	6638	5891	5305	4831	4427	2926
	LATERAL 	SDB front, raised		7828	8936	7618	6638	5891	5305	4831	4427	2926
- 2.0 m	FRONT 	SDB supported		7828	7781*	6440*	5485*	4767*	4208*	3758*	3389*	2926
	LATERAL 	SDB raised		7828	6690*	5586*	4788*	4180*	3701*	3313*	2993*	2731*
- 3.0 m	FRONT 	SDB rear, supported	10511	9541	8197	7139	6281	5560	4923	4279		
	LATERAL 	SDB front, raised	10511	9541	8197	7139	6281	5560	4923	4279		

The specified max. loading capacities in kilograms (kg) include a stability of 25% or are calculated at 87% of the hydraulic lifting power, as per ISO10567. These values are applicable at the tip of the arm with optimum positioning of the corresponding arm system. Weights of attached load carrying accessories (grab, magnet, load hook, etc.) are not included with the load carrying values. *Value limited due to excavator stability.

WORKING RANGES 160W

Working ranges Adjustable boom: Base arm 1.87 m (C6.41) and boom 3.10 m (C6.46)

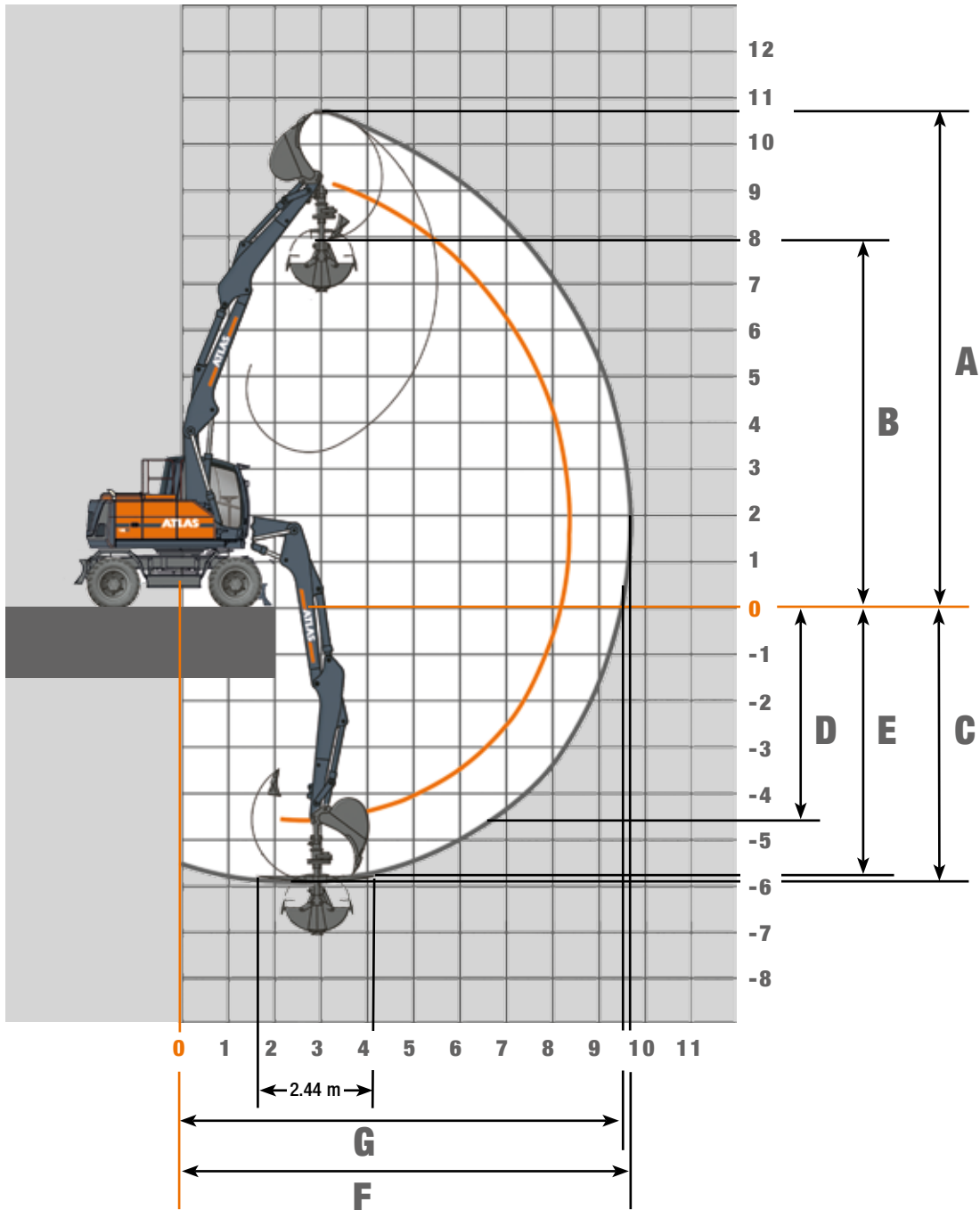


STICK LENGTHS	2.15 m (D6.2)	2.65 m (D6.3)
A Max. digging height	9.70 m	10.10 m
B Max. dumping height	6.95 m	7.35 m
C Max digging depth	5.10 m	5.60 m
D Max. vertical wall digging depth	3.80 m	4.30 m
E Max. digging depth of cut for 2.44 m level	5.00 m	5.50 m
F Max. digging reach	8.70 m	9.20 m
G Max. digging reach at ground level	8.55 m	9.00 m
Max. bucket digging force	130 kN	130 kN
Max. stick digging force	82 kN	72 kN

Unit is equipped with standard adjustable boom: base arm 1.87 m (C6.41) and boom 3.10 m (C6.46).

WORKING RANGES 160W

Work Areas Adjustable Boom, Base arm 1.87 m (C6.41) and Boom 3.62 m (C6.461)

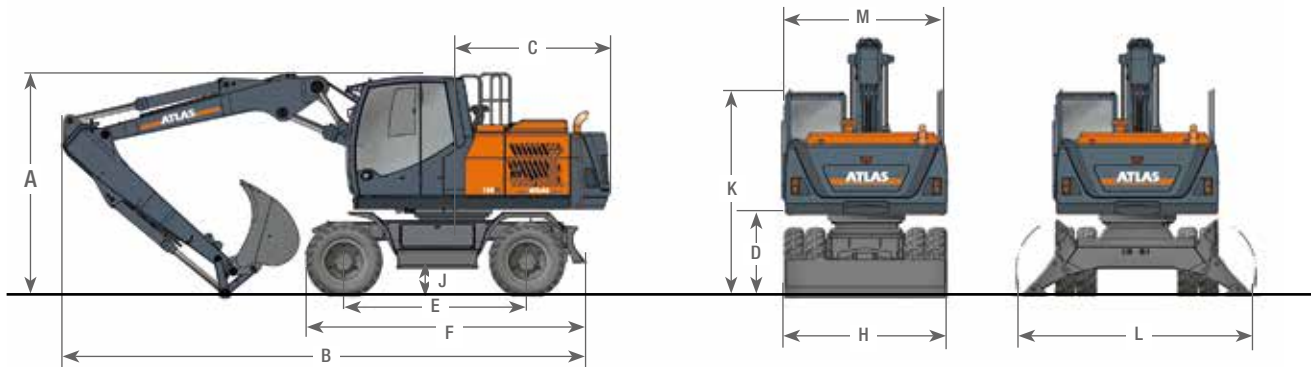


STICK LENGTHS	2.15 m (D6.2)	2.65 m (D6.3)
A Max. cut-in height	10.30 meters	10.75 meters
B Max. pouring height	6.45 meters	7.95 meters
C Max. trench depth	5.35 meters	5.96 meters
D Max. vertical tapping depth	4.10 meters	4.70 meters
E Max. trench depth with 2.44-metre-wide base	5.20 meters	5.80 meters
F Max. reach	8.25 meters	9.75 meters
G Max. reach in the standing plane	8.10 meters	9.60 meters
Max. bucket digging force	130 kN	130 kN
Max. stick digging force	82 kN	72 kN

Unit is equipped with standard adjustable boom: base arm 1.87 m (C6.41) and boom 3.62 m (C6.461).

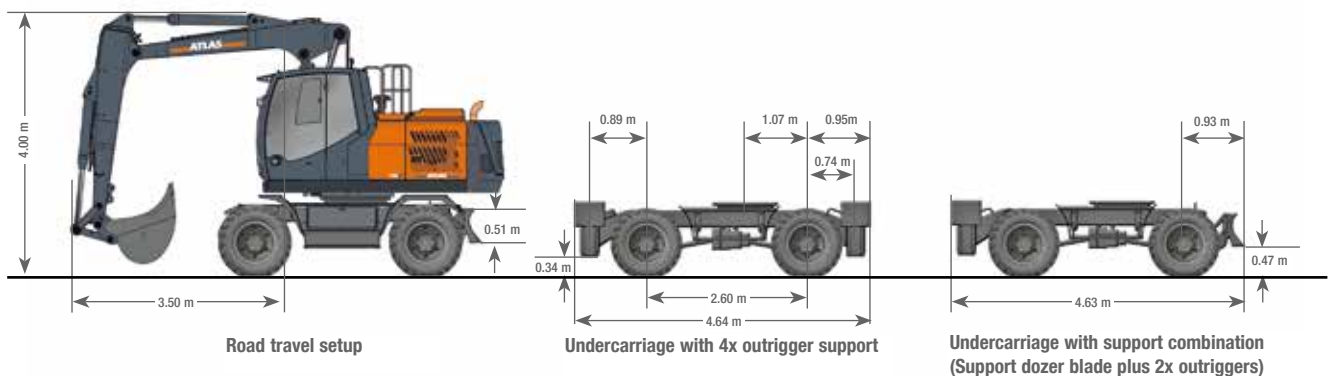
DIMENSIONS 160W

Dimensions



A TRANSPORT HEIGHT (with bucket)		C TAIL SWING RADIUS.....2.24 m	
Adjustable boom* with stick 2.15 m	.....3.15 m	D CLEARANCE UNDER COUNTERWEIGHT.....1.27 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.....4.08 m	
Monoblock boom 4.32 m with stick 2.65 m	.....3.15 m	H DOZER BLADE WIDTH.....2.54 m	
B TRANSPORT LENGTH		J GROUND CLEARANCE.....0.45 m	
Adjustable boom* with stick 2.15 m	.....7.76 m	K OVERALL HEIGHT OF CAB.....3.15 m	
Adjustable boom* with stick 2.65 m	.....8.90 m	L OUTRIGGERS WIDTH (extended).....3.50 m	
Monoblock boom 4.32 m with stick 2.15 m	.....7.60 m	M OVERALL WIDTH OF SUPERSTRUCTURE.....2.49 m	
Monoblock boom 4.32 m with stick 2.65 m7.60 m		

* Adjustable boom: Base arm 1.87 m (C6.41) and boom 3.10 m (C6.46)



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