



ATLAS

SINCE 1919

**STABLE.
STRONG.
STEADY.**

-  16.0 - 19.5 t
-  95 kW (130 HP)
-  0.67 - 1.12 m³



WHEELED EXCAVATOR 160Wsr

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TECHNICAL SPECIFICATION 160Wsr

Technical specifications

ENGINE

Power rating acc. to ISO 9249.....	95kW (130 HP)	Number of cylinders	4	Generator	24 V / 100 A
RPM	1800/min	Bore / cylinder stroke	101 / 126	Starter	24 V / 4 kW
Make / model	Deutz TCD 4.1 (Tier 4F)	Cooling system	Water-cooled		
Design.....	Turbocharger	Air filter.....	Dry air filter		
Displacement.....	4040 cm ³	Battery	2 x 12 V / 100 Ah		

HYDRAULIC SYSTEM

• AWE 4 System	• Suction valves for all work functions	• Hydraulic system.....	1 x Axial piston pump
• Load limit controlled high-performance pump	• Load-retaining and fine lowering valves in lifting circuit	• Main pump	HPR 135
• Fuel-efficient flow-on-demand control	• Restrictors in the lift and articulating circuits	• Max. oil flow.....	245 l/min
• Sensitive, proportional, independent control	• Primary and secondary overload protection	• 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	37.5 kNm
• Swing brake:	Automatic multi-disc parking brake		

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	
• Double-acting brake valve	• Off-road speed	5 km/h	
• Travel direction pre-selection via switch on the joystick	• Crawling speed.....	3 km/h	
		• Option: high speed engine.....	36 km/h
		• Dual-circuit brake system	Multi-disc
		• Parking brake	Multi-disc

UNDERCARRIAGE

• Steering axle with automatic oscillating axle locking	• 8 tires (twins)	10.00 - 20	• Turning radius.....	6.8 m
	• 4 tires (optional)	600 / 40-22.5		

FILL CAPACITIES

• Fuel tank	190 litres	• Engine oil.....	13 litres	• Hydraulic tank	200 litres
				• Ad Blue®	10 litres

DRIVER'S CAB

• Elastically mounted	DRIVER'S SEAT:	• Type	Atlas Comfort Cab 935
• Panorama glazing with heat-absorbing glass	• Air-cushioned comfort seat (optional seat heating)	• Overall length	1760 mm
• The interior is glare-free	• Arm rests and lumbar support	• Width	935 mm
• Front window slidable under cab roof	• Seat adjustable separately from console		
	CONTROL:	SOUND LEVELS:	
	• Ergonomic joysticks	• ISO 6396 (L _{pA}) in driver's cab	70 dB(A)
	• Slim steering column, height and tilt adjustable	• 2000/14 EG (L _{wA}) ambience level	98 dB(A)

WORKING EQUIPMENT 160Wsr

Working equipment

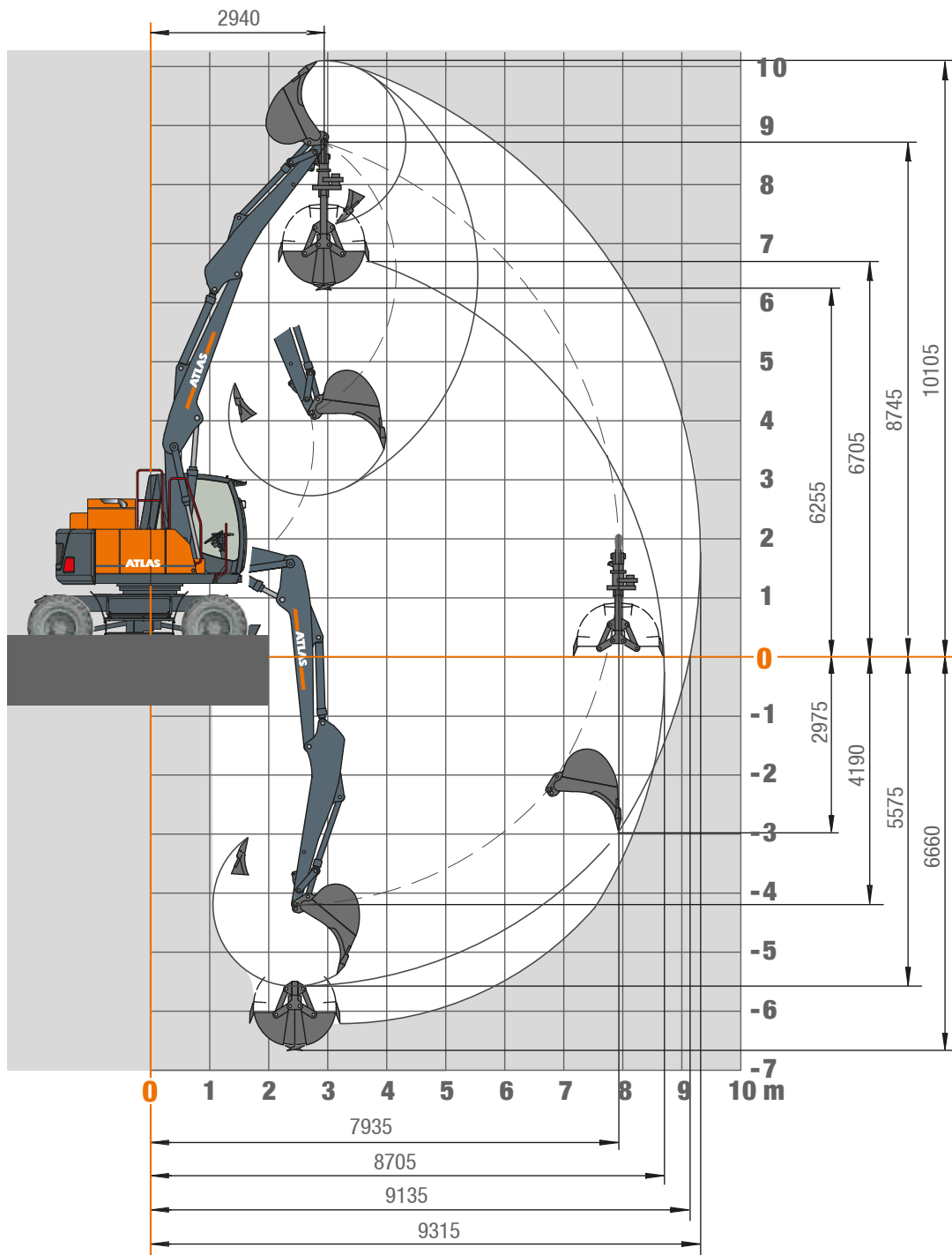
EQUIPMENT		
BASIC UNIT ATLAS 160Wsr (can be combined)		
<ul style="list-style-type: none"> Wheel Excavator 160WSR with complete mounted support plate and dozer blade, standard pivoting radius 1575 mm (4.5 t) 	STANDARD EQUIPMENT:	<ul style="list-style-type: none"> Traveling per foot pedal
	Hydraulic system:	<ul style="list-style-type: none"> Comfort seat with arm rests and orthopedic lumbar support
BOOMS:	<ul style="list-style-type: none"> Grab / grab rotating function 	
<ul style="list-style-type: none"> Base arm with 2 lifting cylinders and center-mounted articulating cylinder (C53.41) 	<ul style="list-style-type: none"> Accumulator for emergency lowering of boom system 	EQUIPMENT:
<ul style="list-style-type: none"> Intermediate boom with stick cylinder, for base arm C51.41, working length 3.095 mm (C53.46) 	<ul style="list-style-type: none"> Pipe-break protection valves for articulated and lifting cylinders 	<ul style="list-style-type: none"> Sealed pivot points in the case section of the boom
	Cab:	<ul style="list-style-type: none"> Grab storage during road travel
	<ul style="list-style-type: none"> Automatic air conditioning system 	<ul style="list-style-type: none"> Central lubrication
	<ul style="list-style-type: none"> Preparation for radio installation 	
STICKS:	<ul style="list-style-type: none"> Slim steering column, height and tilt adjustable 	UNDERCARRIAGE:
<ul style="list-style-type: none"> Stick, working length 2.150 mm (D53.2) 	<ul style="list-style-type: none"> Fuel gauge 	<ul style="list-style-type: none"> Wheels with intermediate rings
<ul style="list-style-type: none"> Stick, working length 2.650 mm (D53.3) 	<ul style="list-style-type: none"> Battery main switch in negative lead 	<ul style="list-style-type: none"> Infinitely adjustable support/dozer blade, with parallel guidance
	<ul style="list-style-type: none"> Windshield washer system 	<ul style="list-style-type: none"> Toolbox in undercarriage (1 x)
BUCKET TIPPING CYLINDER:	<ul style="list-style-type: none"> Sliding window in cab door 	
<ul style="list-style-type: none"> Bucket tipping cylinder with bucket linkage (F53.1) 	<ul style="list-style-type: none"> Storage box 	

SPECIAL EQUIPMENT	
Booms:	Superstructure:
<ul style="list-style-type: none"> Additional hydraulic unit for variable boom cylinder (B41.39) 	<ul style="list-style-type: none"> Heavy counterweight, tailswing 1700 mm (4.9 t) Heavy counterweight, tailswing 1700 mm (5.3 t) without TÜV
Cab:	Undercarriage:
<ul style="list-style-type: none"> Beacon light Heated driver's seat Radio with USB, Front AUX in, Bluetooth LED working lights 	<ul style="list-style-type: none"> Wide axles (overall width 2750 mm) Wide dozer blade (overall width 2750 mm) Hydraulic installation set Comfort with 10 storage places for oilflow and oilpressure

ATTACHMENTS (SELECTION)				
	Bucket	Bucket	Bucket	Bucket
	F415	F416	F417	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
Max. reach support/dozer blade	6.0 m	6.5 m	7.0 m	5 m

WORKING RANGES 160Wsr

Working ranges Adjustable boom: Base arm (C53.41) and boom 3.10 m (C53.46)



STICK LENGTHS	2,15 m (D53.2)		2,65 m (D53.3)	
	Bucket	Grabs	Bucket	Grabs
Max. bucket digging force	130 kN	-	130 kN	-
Max. stick digging force	82 kN	-	72 kN	-
Grab clamping force	-	73 kN	-	73 kN
Operating Weight	16,5 t	16,8 t	16,6 t	16,9 t

LIFTING CAPACITIES 160Wsr

Lifting capacities Adjustable boom: Base arm (C53.41) and boom 3.10 m (C53.46), 4.5 t GG

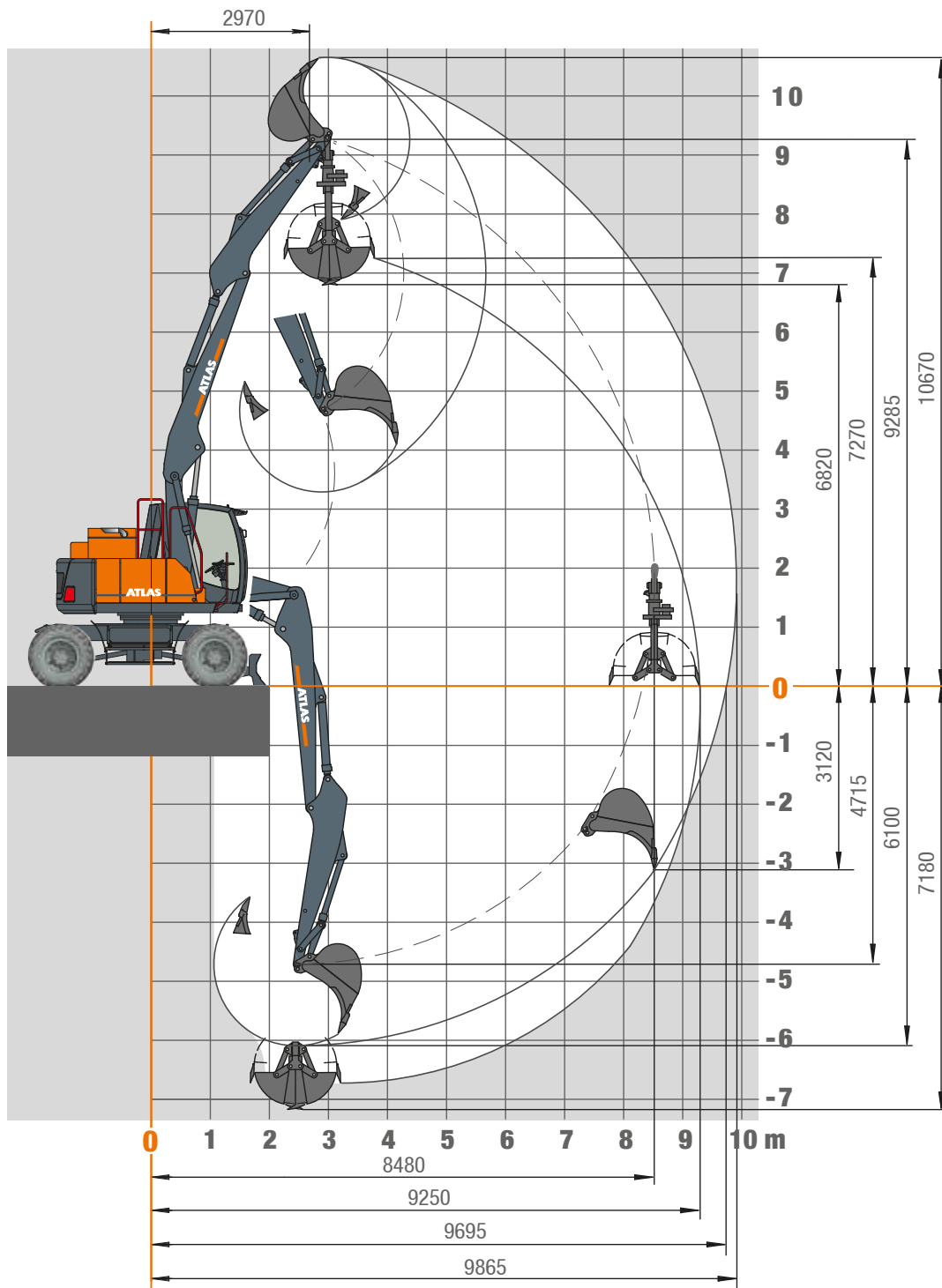
Lifting capacities Adjustable boom (C53.41) and boom 3.10 m (C53.46) with stick 2.15 m (D53.2). Tailswing 1575 mm												
Height	Undercarriage type		2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m	5,5 m	6,0 m	6,5 m	7,0 m
+7,5 m	FRONT	SDB rear, supported			5283	5010						
		SDB front, raised			5283	5010						
	LATERAL	SDB supported			5283	5010						
		SDB raised			5283	4496*						
+6,0 m	FRONT	SDB rear, supported				4698	4433	4226	4071			
		SDB front, raised				4698	4433	4226	4071			
	LATERAL	SDB supported				4698	4400*	3761*	3209*			
		SDB raised				4583*	3851*	3289*	2771*			
+4,5 m	FRONT	SDB rear, supported		6419	5872	5266	4812	4458	4178	3951	3658*	3219*
		SDB front, raised		6419	5872	5266	4812	4458	4178	3951	3658*	3219*
	LATERAL	SDB supported		6419	5872	5109*	4308	3713*	3247*	2826*	2425*	2106*
		SDB raised		6419	5402	4458*	3780*	3264	2856*	2441*	2085*	
+3,0 m	FRONT	SDB rear, supported		6920	6861	6331	5540	4964	4525	4176	3891	3646
		SDB front, raised		6920	6861	6331	5540	4964	4525	4176	3891	3646
	LATERAL	SDB supported		6920	5929*	4912*	4185	3632*	3201*	2821*	2429*	2106*
		SDB raised		6415*	5157*	4298*	3669*	3198	2826*	2437*	2089*	1801*
+1,5 m	FRONT	SDB rear, supported	8934	8441	7814	6976	6049	5344	4795	4354	3985	3667
		SDB front, raised	8934	8441	7814	6976	5943*	5129	4501	4010*	3607*	3169*
	LATERAL	SDB supported	8934	7318*	5827*	4833*	4128*	3602*	3176*	2730*	2360*	2059*
		SDB raised	8309*	6289*	5054*	4221*	3626*	3156*	2739*	2348*	2021*	1755*
+0 m	FRONT	SDB rear, supported	11629	9894	8252	7002	6082	5377	4820	4373	4027	3562
		SDB front, raised	11629	9894	8252	7002	5956*	5151	4551*	3992*	3491*	3101*
	LATERAL	SDB supported	9743*	7226*	5733*	4735*	4013*	3463*	2997*	2584*	2253*	1996*
		SDB raised	7891*	5991*	4819*	4014*	3422*	2963*	2565*	2206*	1917*	1694*
-1,5 m	FRONT	SDB rear, supported	13065	10260	8436	7163	6237	5562	4921	4226	3252	
		SDB front, raised	13065	10260	8436	7163	6163*	5167*	4430*	3870*	3252	
	LATERAL	SDB supported	9503*	6989*	5520*	4554*	3859*	3268*	2819*	2473*	2202*	
		SDB raised	7672*	5769*	4618*	3842*	3273*	2774*	2393*	2097*	1867*	
-3,0 m	FRONT	SDB rear, supported	12805	9966	8000	6481	5177	3899				
		SDB front, raised	12805	9966	8000	6481	5177	3899				
	LATERAL	SDB supported	9646*	6997*	5450*	4435*	3723*	3204*				
		SDB raised	7802*	5777*	4551*	3728*	3142*	2712*				

Lifting capacities Adjustable boom (C53.41) and boom 3.10 m (C53.46) with stick 2.65 m (D53.3). Tailswing 1575 mm													
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	7,5 m
+7,5 m	FRONT	SDB rear, supported				4404	4243	3919					
		SDB front, raised				4404	4243	3919					
	LATERAL	SDB supported				4404	4243	3704*					
		SDB raised				4404	3856	3195*					
+6,0 m	FRONT	SDB rear, supported					4044	3878	3743	3638	3197		
		SDB front, raised					4044	3878	3743	3638	3197		
	LATERAL	SDB supported					4044	3804*	3297*	2848*	2431*		
		SDB raised					3905*	3338*	2889*	2462*	2090*		
+4,5 m	FRONT	SDB rear, supported			4592	4804	4443	4152	3915	3719	3555	3420	
		SDB front, raised			4592	4804	4443	4152	3915	3719	3555	3287*	
	LATERAL	SDB supported			4592	4804	4343*	3732*	3257	2877*	2523*	2178*	
		SDB raised			4592	4508*	3808*	3281*	2867*	2531*	2179*	1870*	
+3,0 m	FRONT	SDB rear, supported		6795	6863	5893	5210	4702	4309	3995	3736	3517	3323
		SDB front, raised		6795	6863	5893	5210	4702	4309	3995	3611*	3261	2903*
	LATERAL	SDB supported		6795	5974*	4930*	4187*	3622*	3185*	2838*	2517*	2181*	1898*
		SDB raised		6475*	5183*	4306*	3671*	3188*	2807*	2505*	2173*	1873*	1619*
+1,5 m	FRONT	SDB rear, supported	8644	8256	7772	6788	5874	5194	4669	4250	3906	3610	3343
		SDB front, raised	8644	8256	7772	6788	5874	5097*	4466*	3970*	3573*	3230*	2859*
	LATERAL	SDB supported	8644	7257*	5781*	4791*	4087*	3559*	3147*	2822*	2438*	2118*	1795*
		SDB raised	8235	6240	5021*	4184	3584*	3133	2782*	2437*	2096*	1811*	1578*
+0 m	FRONT	SDB rear, supported	10762	9490	8120	6897	5995	5299	4747	4298	3928	3637	3262
		SDB front, raised	10762	9490	8120	6897	5874*	5075*	4464	3996	3550*	3132*	2796*
	LATERAL	SDB supported	9827	7297*	5794*	4785*	4051*	3492*	3050*	2657*	2306*	2021*	1795*
		SDB raised	8010*	6079*	4883*	4061*	3456*	2989*	2615*	2276*	1967*	1717*	1518*
-1,5 m	FRONT	SDB rear, supported	12781	10052	8262	7009	6087	5384	4855	4411	3894	3129	
		SDB front, raised	12781	10052	8262	7009	6001	5250*	4479*	3888*	3429*	3066*	
	LATERAL	SDB supported	9473*	6974*	5511*	4545*	3856*	3337*	2858*	2485*	2193*	1961*	
		SDB raised	7640*	5753*	4606*	3831*	3268*	2839*	2429*	2108*	1856*	1658*	
-3,0 m	FRONT	SDB rear, supported	13206	10449	8593	7174	6041	5041	4033				
		SDB front, raised	13206	10449	8593	7174	5992*	5041	4033				
	LATERAL	SDB supported	9475*	6945*	5452*	4427*	3704*	3168*	2759*				
		SDB raised	7642*	5725*	4550*	3718*	3122*	2676*	2332*				

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 160Wsr

Working ranges Adjustable boom: Base arm (C53.41) and boom 3.60 m (C53.461)



STICK LENGTHS	2,15 m (D53.2)		2,65 m (D53.3)	
	Löffel	Greifer	Löffel	Greifer
Max. bucket digging force	130 kN	-	130 kN	-
Max. stick digging force	82 kN	-	72 kN	-
Grab clamping force	-	73 kN	-	73 kN
Operating Weight	18,9 t	19,2 t	19 t	19,3 t

LIFTING CAPACITIES 160Wsr

Lifting capacities Adjustable boom: Base arm (C53.41) and boom (C53.46) / (C53.461), Wide axles 2.75 m, 5.3 t GG

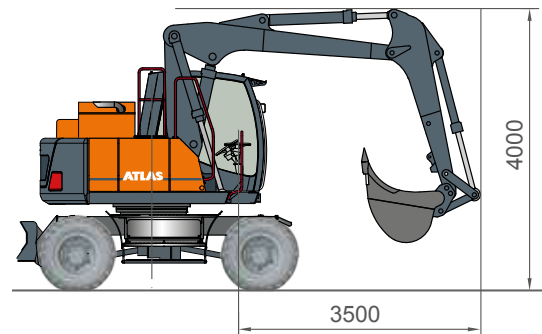
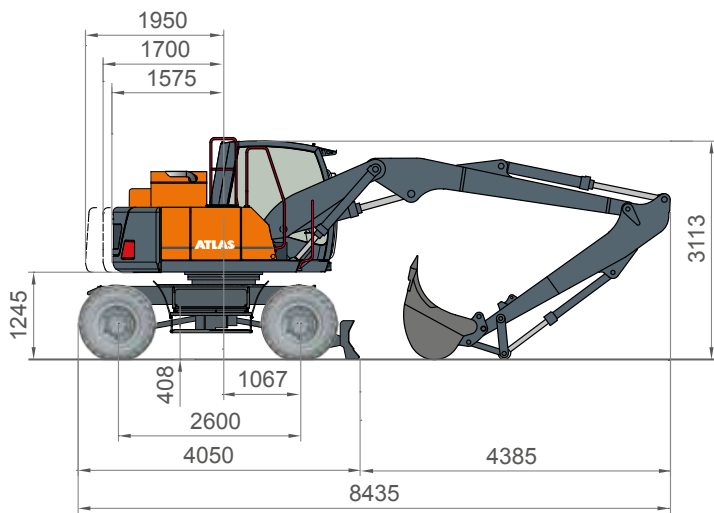
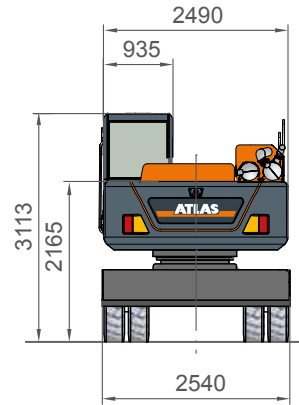
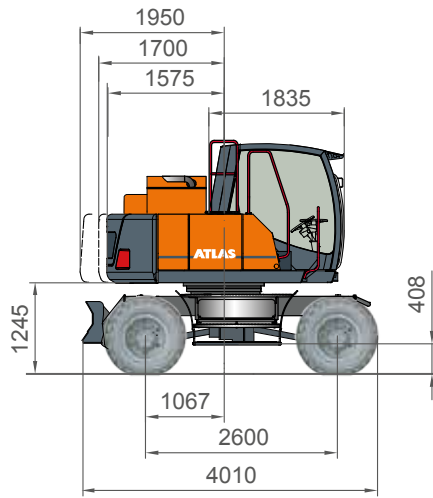
Lifting capacities Base arm (C53.41) and boom 3.10 m (C53.46) with stick 2.65 m (D53.3). Tailswing 1700 mm													
Height	Undercarriage type		2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m	5,5 m	6,0 m	6,5 m	7,0 m	7,5 m
+7,5 m	FRONT		SDB rear, supported			4404	4243	3919					
	LATERAL		SDB front, raised			4404	4243	3919					
+6,0 m	FRONT		SDB rear, supported				4044	3878	3743	3638	3197		
	LATERAL		SDB front, raised				4044	3878	3743	3638	3197		
+4,5 m	FRONT		SDB rear, supported		4592	4804	4443	4152	3915	3719	3555	3420	
	LATERAL		SDB front, raised		4592	4804	4443	4152	3915	3719	3555	3420	
+3,0 m	FRONT		SDB rear, supported		6795	6863	5893	5210	4702	4309	3995	3736	3517
	LATERAL		SDB front, raised		6795	6863	5893	5210	4702	4309	3995	3736	3517
+1,5 m	FRONT		SDB rear, supported		8644	8256	7772	6788	5874	5194	4669	3906	3610
	LATERAL		SDB front, raised		8644	8256	7772	6788	5874	5194	4669	3906	3610
+0 m	FRONT		SDB rear, supported		10762	9490	8120	6897	5995	5299	4747	4298	3928
	LATERAL		SDB front, raised		10762	9490	8120	6897	5995	5299	4747	4298	3928
-1,5 m	FRONT		SDB rear, supported		12781	10052	8262	7009	6087	5384	4855	4411	3894
	LATERAL		SDB front, raised		12781	10052	8262	7009	6087	5384	4855	4411	3894
-3,0 m	FRONT		SDB rear, supported		13206	10449	8593	7174	6041	5041	4033	3292	3262
	LATERAL		SDB front, raised		12641*	-9091*	-7066*	-5716*	-4776*	-4085*	-3559*	-2947*	-2326*

Lifting capacities Base arm (C53.41) and boom 3.60 m (C53.461) with stick 2.65 m (D53.3). Tailswing 1700 mm														
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	7,5 m	8,0 m
+9,0 m	FRONT		SDB rear, supported		5078									
	LATERAL		SDB front, raised		5078									
+7,5 m	FRONT		SDB rear, supported					3919	3744	3617				
	LATERAL		SDB front, raised					3919	3744	3617				
+6,0 m	FRONT		SDB rear, supported					3962	3733	3545	3389	3261	3166	
	LATERAL		SDB front, raised					3962	3733	3545	3389	3261	3166	
+4,5 m	FRONT		SDB rear, supported		5071	5313	4908	4443	4080	3790	3553	3355	3189	3048
	LATERAL		SDB front, raised		5071	5313	4908	4443	4080	3790	3553	3355	3189	3048
+3,0 m	FRONT		SDB rear, supported		5686	5820	5172	4606	4173	3831	3553	3320	3120	2940
	LATERAL		SDB front, raised		5686	5820	5172	4606	4173	3831	3553	3320	3120	2885*
+1,5 m	FRONT		SDB rear, supported		6872	6942	6786	6366	5661	4988	4464	4047	3705	3417
	LATERAL		SDB front, raised		6872	6942	6786	6366	5661	4988	4464	4047	3705	3396
+0 m	FRONT		SDB rear, supported		8378	8468	7595	6549	5683	5020	4494	4067	3714	3418
	LATERAL		SDB front, raised		8378	8468	7595	6549	5683	5020	4494	4067	3714	3418
-1,5 m	FRONT		SDB rear, supported		11869	9626	7887	6673	5781	5101	4568	4147	3837	3461
	LATERAL		SDB front, raised		11869	9626	7887	6673	5781	5101	4568	4147	3837	3461
-3,0 m	FRONT		SDB rear, supported		12777	10051	8274	7044	6130	5330	4600	3857	2961	2904
	LATERAL		SDB front, raised		12224*	8783*	6846*	5606*	4715*	4003*	3460*	3038*	2705*	2374*

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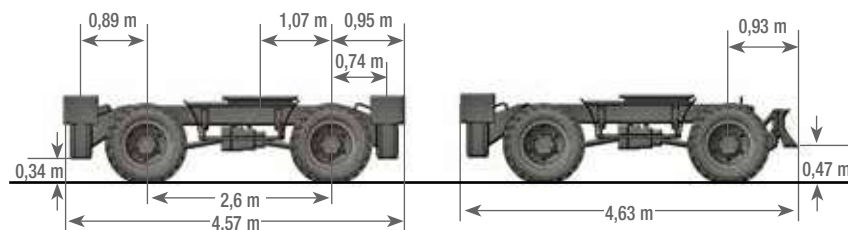
DIMENSIONS 160Wsr

Dimensions



A41.2, C53.41, C53.46, D53.2, F53.1, F415

A41.2, C53.41, C53.461, D53.3, F53.1, F412



GANDERKESEE FACTORY

Atlas GmbH
Atlasstraße 6
D-27777 Ganderkesee,
Germany

Tel.: +49 (0) 4222 954 0
Fax: +49 (0) 4222 954 220
E-mail: info@atlasgmbh.com
www.atlasgmbh.com



VECHTA FACTORY

Atlas GmbH
Theodor-Heuss-Str. 3
D-49377 Vechta
Germany

T: +49 (0) 4441 954 0
F: +49 (0) 4441 954 299
E-mail: info@atlasgmbh.com
www.atlasgmbh.com



DELMENHORST FACTORY

Atlas GmbH
Stedinger Straße 324
D-27751 Delmenhorst
Germany

T: +49 (0) 4221 49 10
F: +49 (0) 4221 49 14 43
E-mail: info@atlasgmbh.com
www.atlasgmbh.com

ATLAS CRANES UK LTD NATIONAL SALES & SERVICE FACILITY

Wharfedale Road,
Euroway Trading Est.
Bradford, England BD4 6SL
United Kingdom

T: +44 8444 99 66 88
F: +44 1274 65 37 85
E-mail: atlasuk@atlasgmbh.com
www.atlas-cranes.co.uk
www.atlasgmbh.com



SINCE 1919
ATLAS



www.atlasgmbh.com

ATLAS GmbH

EXCAVATOR

Atlasstraße 6

D-27777 Ganderkesee, Germany

T: +49 (0) 4222 954 0

Fax: +49 (0) 4222 954 220

info@atlasgmbh.com