

100
ATLAS 1919 - 2019

ATLAS
SINCE 1919

**ROBUST.
PRECISE.
EFFICIENT.**

-  19.0 t
-  105 kW (143 HP)
-  0.7 - 1.3 m³



CRAWLER EXCAVATOR 185 LCsr^{blue}

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TECHNICAL SPECIFICATION 185LCsr

Technical Specification

ENGINE

Power according to ISO 9249	105 kW (143 HP)	Cylinder capacity.....	4038 cm ³	Battery	2 x 12 V / 100 Ah
RPM	1800/min	Number of cylinders.....	4	Alternator	24 V / 100 Ah
Make/ Model	Deutz TCD 6.1 (Tier 4F)	Cooling system.....	water cooled	Starter	24 V / 4 kW
Design	Turbocharger	Air filter.....	Dry air filter		

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..... 240 l/min
• Fuel-efficient flow-on-demand control	• Pipe break protection valves for lifting and articulated cylinders	• Max. operating pressure 320 bar
• Sensitive, proportional, independent control	• Grab / grab-rotating function equipped as standard	• Operating modes: 3 pre-programmed modes (Fine, Eco, Power)
• Primary and secondary protection against overload		

SWING ASSEMBLY

• Swing motor:	Axial piston motor with priority valve	• Drive on internal clogged slewing ring
• Swing gear:	Multistage planetary gear	• Superstructure max. RPM9/min
• Swing brake:	Automatic multidisc	• Swing torque..... 41 kNm

TRACTION DRIVE AND BRAKES

• Steering:	2 control levers / pedals enable separate drive of both chains	• Speed Stage 1 max. 0-2.1 km/h
• Traction drive:	2 automatic drive positions	• Speed Stage 2 max. 0-4.8 km/h
• Brakes:	Hydraulic, service-free multidisc brakes	• Tractive force..... 240 kN
		• Max. climbing power 70 %

UNDERCARRIAGE

• Complete heavy duty undercarriage in X-design	• Chain tensioner through greasing cylinder, spring loaded	• Track guided by rollers and idler unit
• Crawler unit with asymmetric roof profile and integrated traction drive with planetary transmission	• Lubricated sealed chain, drive quality B4HD, Track width 2200 mm, 4500 mm long, 600 mm track chain	• Operating weight..... 16.8 - 19.0 t
• Automatic hydraulic controlled brakes and brake valve		

FILL CAPACITIES

• Fuel tank	250 liter	• Engine oil.....	10 liter	• Hydraulic System	210 liter
• Cooling system	35 liter	• Hydraulic tank	175 liter	• Ad Blue®.....	32 Liter

DRIVER'S CAB

• Meets latest safety standards	CONTROL:	CLIMATE CONTROL:
• Extra large entry zone	• Ergonomic joysticks with proportional slide control	• Air conditioning with Climatronic
• Spacious leg room	• Slim steering column, height and tilt adjustable	• Very good 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 (LpA) in driver's cab..... 72 dB(A)
• Air-cushioned comfort seat (optional seat heating)	• Operating data appears display	• 2000/14 EG (LwA) ambience level 97 dB(A)
• Arm rests and lumbar support	• Automatic system for monitoring, warning and storage of data	
• Seat adjustable separately from console		

WORKING EQUIPMENT 185LCsr

Working Equipment

BASIC UNIT

A 6.82	ATLAS hydraulic crawler excavator 185LCsr with continuously rotating upper carriage and two lifting cylinders, but without main boom, with ATLAS cabin 935 with sound absorption, heating by utilizing the engine cooling water heat and air conditioning, swivel radius 1690 mm, track width 2200 mm, 4500 mm long, crawler chains 600 mm wide.
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DRIVE OPTION

6103303	Track 2000 mm, Overall Length 4500 mm B4HD- Drive parts
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BOOM VARIANTS

C 6.3 M	Monoblock boom, one stick cylinder, Length 4320 mm
C 6.4 MG	Monoblock boom straight with, stick cylinder, length 4850 mm
C 6.5 M	Monoblock boom, one stick cylinder, Length 5280 mm
C 6.6 i	Industry boom, length 6000 mm
C 6.41	Base arm: adjusting cylinder, hose rupture safety, incl. hydraulic mounting kit, suitable for C 6.46
C 6.46	Boom, one stick cylinder, suitable for C 6.41, Length 3095 mm

CONTINUED: BOOM VARIANTS

C 6.461	Boom, one stick cylinder, suitable for C 6.41, Length 3620 mm
C 6.462	Boom, one stick cylinder, suitable for C 6.41, Length 4100 mm
C 6.46	Boom, one stick cylinder, suitable for C 6.41, Length 3095 mm

ATTACHMENTS

		Capacity (SAE)	Cutting width
F 415	Bucket	0.67 m ³	850 mm
F 416	Bucket	0.82 m ³	1000 mm
F 418	Bucket	1.12 m ³	1300 mm
G 644	Trenching bucket	0.56 m ³	2000 mm

BUCKET CYLINDER

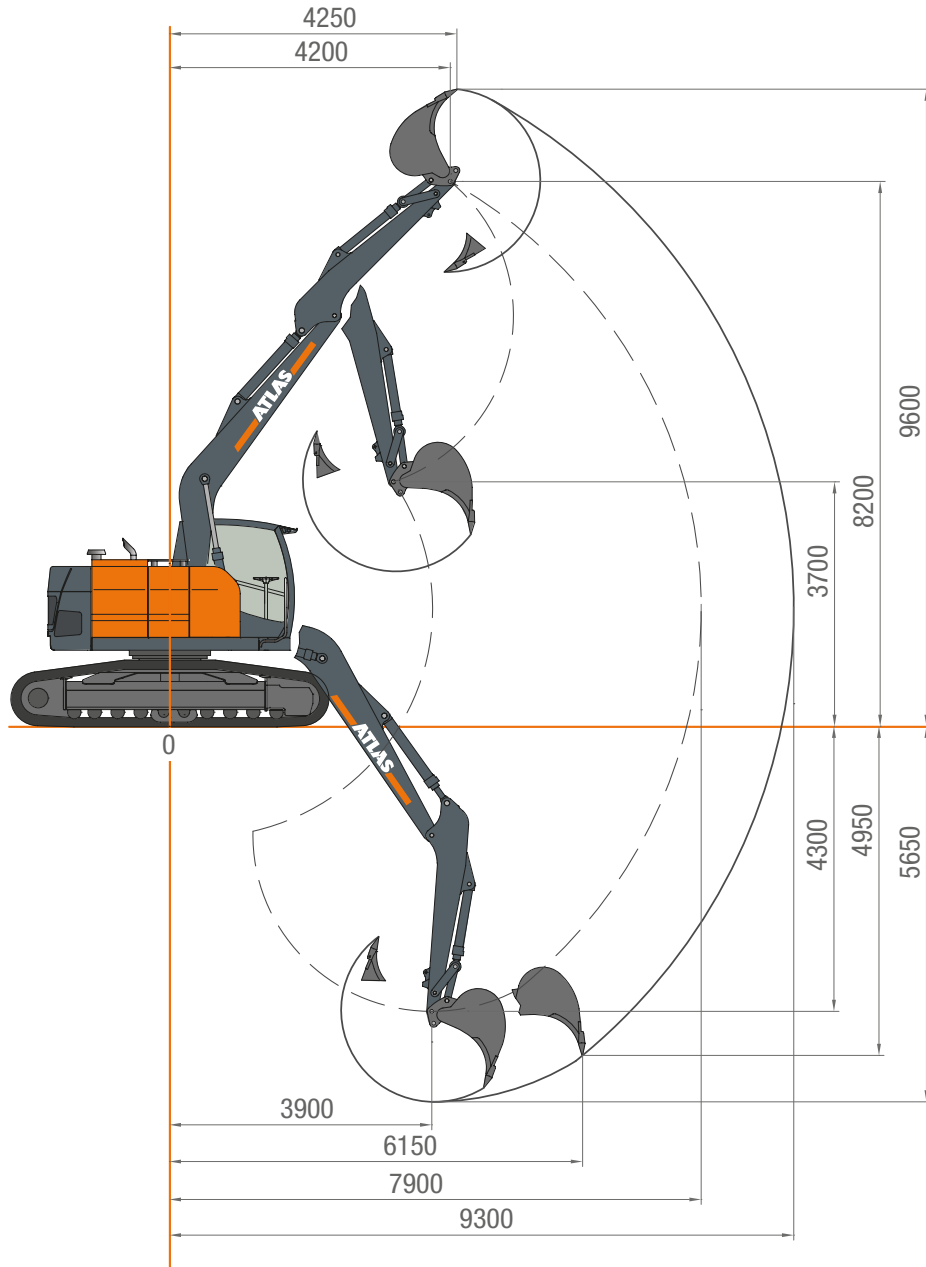
F 6.1	Bucket cylinder, with bucket linkage
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STICK

D 6.2	Stick, length 2160 mm, for Monoblock- and adjustable boom
D 6.3	Stick, length 2660 mm, for Monoblock- and adjustable boom
D 6.31	Stick, length 3160 mm, for adjustable boom
D 6.5	Stick for trench cleaning, length 3550 mm
D 6.14 i	Stick, length 4000 mm, only for C 6.6 i
D 6.14iS	Stick, with straight tip, length 4000 m, only for C 6.6 i























WORKING RANGES 185LCsr

Working ranges Monoblock boom 4.85 m (C6.4MG) with Stick 2.66 m (D6.3)



LIFTING CAPACITIES 185LCsr

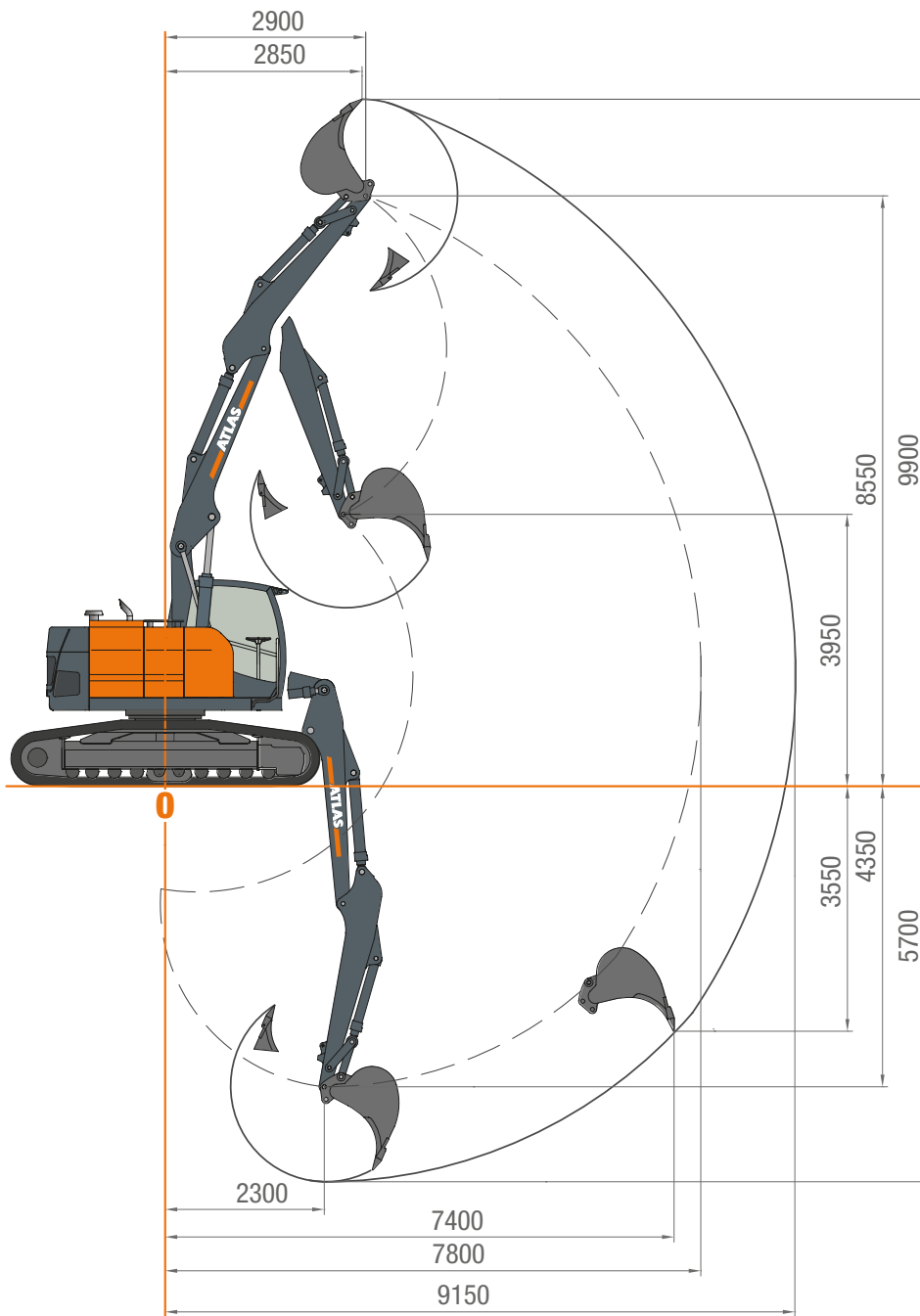
Lifting capacities Monoblock boom 4.85 m (C6.4MG) with Stick 2.66 m (D6.3)

Lifting capacities: Monoblock boom 4.85 m (C6.4MG) and Stick 2.66 m (D6.3). Max. Reach 9.30 m												
Heights	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
+ 7.0 m	FRONT 	0	0	0	0	0	4117	0	0	0	0	0
	LATERAL 	0	0	0	0	0	*4022	0	0	0	0	0
+ 6.0 m	FRONT 	0	0	0	0	0	0	3889	3843	0	0	0
	LATERAL 	0	0	0	0	0	0	*3483	*3014	0	0	0
+ 5.0 m	FRONT 	0	0	0	0	0	4101	3954	3833	3742	0	0
	LATERAL 	0	0	0	0	0	*4008	*3454	*3010	*2642	0	0
+ 4.0 m	FRONT 	0	0	0	0	4729	4426	4182	3983	3820	3690	0
	LATERAL 	0	0	0	0	*4568	*3893	*3370	*2952	*2608	*2317	0
+ 3.0 m	FRONT 	0	8196	6850	5964	5336	4866	4502	4212	3976	*3712	*3336
	LATERAL 	0	*8007	*6309	*5169	*4350	*3733	*3252	*2864	*2545	*2276	*2042
+ 2.0 m	FRONT 	0	0	8035	6799	5940	5312	4831	4452	*4073	*3653	*3299
	LATERAL 	0	0	*5832	*4843	*4116	*3560	*3121	*2766	*2471	*2222	*2007
+ 1.0 m	FRONT 	0	0	6257	7313	6356	5635	5077	*4482	*3996	*3596	*3260
	LATERAL 	0	0	*5514	*4594	*3924	*3411	*3005	*2675	*2401	*2170	*1972
0 m	FRONT 	0	3861	6592	7393	6474	*5740	*4990	*4406	*3938	*3556	*3241
	LATERAL 	0	3861	*5386	*4457	*3801	*3308	*2920	*2607	*2348	*2134	*1954
- 1.0 m	FRONT 	0	5915	8093	7109	6292	5614	*4948	*4373	*3917	*3547	0
	LATERAL 	0	5915	*5371	*4422	*3757	*3264	*2882	*2577	*2329	*2125	0
- 2.0 m	FRONT 	0	8180	7273	6479	5789	5189	4657	4168	3676	0	0
	LATERAL 	0	*6914	*5414	*4445	*3768	*3269	*2887	*2585	*2346	0	0
- 3.0 m	FRONT 	7380	6687	6041	5443	4888	4364	3843	3252	0	0	0
	LATERAL 	7380	6687	*5509	*4518	*3828	*3322	*2939	*2648	0	0	0

The specified max. loading capacities in kilogrammes 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 and with the pressure switched on. *Value limited due to excavator stability.

























WORKING RANGES 185LCsr

Working ranges Adjustable boom 1.87 m (C6.41) and boom 3.10 m (C6.46) with Stick 2.66 m (D6.3)



LIFTING CAPACITIES 185LCsr

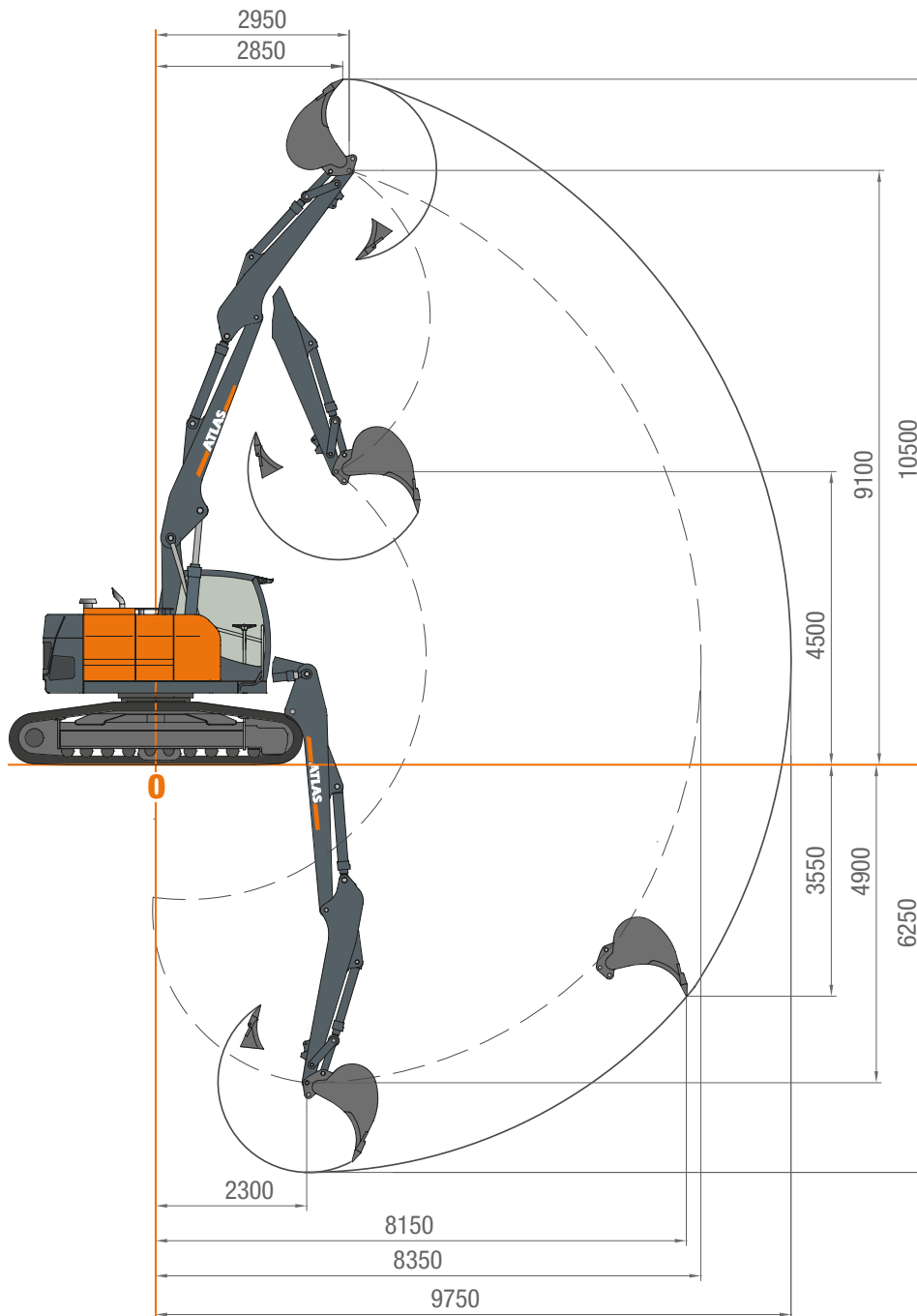
Lifting capacities Adjustable boom 1.87 m (C6.41) and boom 3.10 m (C6.46) with Stick 2.66 m (D6.3)

Lifting capacities: Adjustable boom 1.87 m (C6.41) and boom 3.10 m (C6.46) with Stick 2.66 m (D6.3). Max. Reach 9,15 m												
Heights	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	FRONT 	0	0	5083	0	0	0	0	0	0	0	0
	LATERAL 	0	0	5083	0	0	0	0	0	0	0	0
+ 7.0 m	FRONT 	0	0	0	0	4441	4329	0	0	0	0	0
	LATERAL 	0	0	0	0	4441	*4018	0	0	0	0	0
+ 6.0 m	FRONT 	0	0	0	0	4334	4187	4071	3985	0	0	0
	LATERAL 	0	0	0	0	4334	*4066	*3522	*3016	0	0	0
+ 5.0 m	FRONT 	0	0	0	4590	4519	4301	4120	3970	3852	0	0
	LATERAL 	0	0	0	4590	4519	*4031	*3515	*3093	*2661	0	0
+ 4.0 m	FRONT 	0	4987	5326	5357	4932	4596	4324	4100	3914	*3746	0
	LATERAL 	0	4987	5326	5357	4610	*3970	*3478	3082	*2691	*2332	0
+ 3.0 m	FRONT 	8822	8414	7052	6142	5490	4998	4613	4303	4047	*3726	*3329
	LATERAL 	8822	*8076	*6431	*5310	4505	*3905	*3434	*3059	*2681	*2328	*2033
+ 2.0 m	FRONT 	8983	8809	8131	6900	6036	5396	4903	4510	*4092	*3709	*3310
	LATERAL 	8983	*7844	6259	5199	*4431	*3850	*3403	*3053	*2637	*2296	*2012
+ 1.0 m	FRONT 	9564	9111	8416	7337	6388	5667	*5083	*4524	*4076	*3678	*3272
	LATERAL 	9564	7779	*6198	*5149	*4395	*3834	*3405	*2965	*2565	*2242	*1977
0 m	FRONT 	11057	9905	8634	7386	6453	5727	*5073	4531	*4089	*3613	*3237
	LATERAL 	10495	*7811	*6220	*5165	*4392	*3784	*3302	*2848	*2479	*2179	*1945
- 1.0 m	FRONT 	12623	10482	8698	7431	6485	5754	5122	*4549	*3994	*3563	0
	LATERAL 	*10390	*7668	*6065	*5002	*4240	*3663	*3149	*2728	*2392	*2134	0
- 2.0 m	FRONT 	13369	10647	8836	7552	6600	5896	*5110	*4461	3774	0	0
	LATERAL 	*10210	*7513	*5931	*4890	*4132	*3501	*3018	*2648	*2356	0	0
- 3.0 m	FRONT 	13709	10976	9085	7649	6489	5445	4379	0	0	0	0
	LATERAL 	*10221	*7499	*5860	*4758	*3985	*3412	*2976	0	0	0	0

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WORKING RANGES 185LCsr

Working ranges Adjustable boom 1.87 m (C6.41) and boom 3.62 m (C6.461) with Stick 2.66 m (D6.3)



LIFTING CAPACITIES 185LCsr

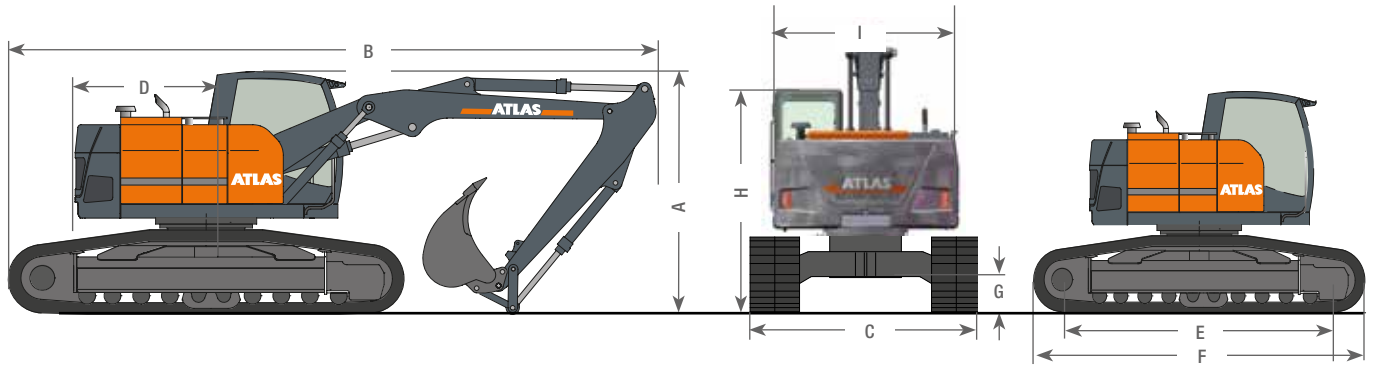
Lifting capacities Adjustable boom 1.87 m (C6.41) and boom 3.62 m (C6.461) with Stick 2.66 m (D6.3)

Lifting capacities: Adjustable boom 1.87 m (C6.41) and boom 3.62 m (C6.461) with Stick 2.66 m (D6.3). Max. Reach 9.75 m													
Heights	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
+ 8.0 m	FRONT 	0	0	0	4597	4405	0	0	0	0	0	0	0
	LATERAL 	0	0	0	4597	4405	0	0	0	0	0	0	0
+ 7.0 m	FRONT 	0	0	0	0	4162	3994	3866	3789	0	0	0	0
	LATERAL 	0	0	0	0	4162	3994	*3481	*2961	0	0	0	0
+ 6.0 m	FRONT 	0	0	0	0	4216	4006	3832	3690	3579	0	0	0
	LATERAL 	0	0	0	0	4216	4006	*3496	*3062	*2644	0	0	0
+ 5.0 m	FRONT 	0	0	4345	4663	4488	4199	3962	3766	3602	3467	3094	0
	LATERAL 	0	0	4345	4663	4488	*3960	*3456	*3047	*2704	*2335	*2009	0
+ 4.0 m	FRONT 	0	7226	6194	5471	4937	4526	4199	3934	3714	3529	*3320	0
	LATERAL 	0	7226	6194	*5302	*4485	*3870	3390	*3004	*2687	*2360	*2043	0
+ 3.0 m	FRONT 	0	7256	7232	6231	5474	4916	4485	4142	3862	*3624	3296	*2963
	LATERAL 	0	7256	6173	*5125	*4358	3776	*3327	2961	*2664	*2351	*2039	*1773
+ 2.0 m	FRONT 	7099	7269	7225	6850	5936	5261	4744	4334	*3962	*3587	3282	*2943
	LATERAL 	7099	7269	*5996	*4987	*4258	*3707	3276	*2931	*2657	*2310	*2007	*1754
+ 1.0 m	FRONT 	7857	7824	7501	7002	6160	5455	*4893	*4364	3929	*3574	*3262	*2904
	LATERAL 	7857	*7463	*5950	*4939	4221	*3677	3261	*2934	*2591	*2243	*1956	*1718
0 m	FRONT 	9358	8859	8069	7063	6164	5468	4875	*4355	3938	*3606	*3195	*2867
	LATERAL 	9358	*7511	*5979	*4960	*4235	*3685	*3227	*2853	*2483	*2160	*1894	*1683
- 1.0 m	FRONT 	11336	9888	8352	7120	6204	5497	*4908	4405	*3982	*3513	*3142	0
	LATERAL 	*9973	*7372	*5845	*4832	*4106	*3557	*3124	*2730	*2367	*2074	*1845	0
- 2.0 m	FRONT 	12798	10252	8487	7234	6304	5591	5028	*4418	*3884	*3461	0	0
	LATERAL 	*9852	*7244	*5723	*4723	*4012	*3480	*3000	*2594	*2277	*2026	0	0
- 3.0 m	FRONT 	13249	10541	8749	7502	6557	5738	*4975	4191	3177	0	0	0
	LATERAL 	*9867	*7232	*5701	*4702	*3936	*3335	*2880	*2528	*2248	0	0	0

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DIMENSIONS 185LCsr

Dimensions



A	TRANSPORT HEIGHT	B	TRANSPORT LENGTH
	Adjustable boom. 1.95 m (C6.41), 3.62 m (C6.461), 2.16 m (D6.2) 2.94 m		Adjustable boom. 1.95 m (C6.41), 3.10 m (C6.461), 2.16 m (D6.2) 8.18 m
	Adjustable boom. 1.95 m (C6.41), 3.62 m (C6.461), 2.66 m (D6.3) 3.10 m		Adjustable boom. 1.95 m (C6.41), 3.10 m (C6.461), 2.16 m (D6.2) 8.05 m
	Monoblock 4.30 m (C6.3M) with Stick 2.16 m (D6.2) 2.94 m		Monoblock 4.30 m (C6.3M) with Stick 2.16 m (D6.2) 7.65 m
	Monoblock 4.30 m (C6.3M) with Stick 2.66 m (D6.3) 3.10 m		Monoblock 4.30 m (C6.3M) with Stick 2.66 m (D6.3) 7.55 m
C	TRANSPORT WIDTH WHEEL	F	DRIVELENGTH 4.50 m
	BASE 2.20 m	G	GROUND CLEARANCE 0.46 m
	Base plate width 600 mm 2.80 m	H	HEIGHT OVER CABIN 2.95 m
D	REAR SWIVEL RADIUS 1.69 m	I	SUPERSTRUCTURE WIDTH 2.50 m
E	BEARING CHAIN LENGTH 3.71 m		

Design changes reserved, data not binding. Devices comply with the new European safety regulations.

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