

ATLAS

SINCE 1919

-  22.0 - 22.6 t
-  129 kW (175 hp)
-  0.75 - 1.3 m³

**STABLE.
STRONG.
STEADY.**



WHEELED EXCAVATOR 220W

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TECHNICAL SPECIFICATION 220W

Technical data

ENGINE

Power rating acc. to ISO 9249..129 kW (175 PS)	Displacement6700 cm ³	Battery 2 x 12 V / 100 Ah
RPM1800/min	Number of cylinders6	Generator 24 V / 70 Ah
Make/modelCummins/QSB 6.7 T4F	Cooling system water cooled	Starter 24 V / 3.2 kW
DesignTurbocharger/charge air cooling	Air filter dry air filter	

HYDRAULIC SYSTEM

• Load limit controlled high-performance piston pump	• Suction valve for all work functions	• Pipe break protection valves for lifting and articulated cylinders
• Dual circuit hydraulic system	• Load retaining and fine lowering valves in lifting circuit	• 2 additional circuits for more consumer loads possible
• Standard 7 consumer loads in one valve block	• Pump flow control	• Max. oil flow400 l/min
• Sensitive, proportional, independent control	• Proportional grab/grab rotating function	• Operating pressure max 340 (370)* bar
• Primary and secondary protection against overload	• Fuel efficient flow-on-demand control	• Operating modes: 3 preprogrammed modes (Fine, Eco, Power)

SWING ASSEMBLY

• Swing motor: Axial piston motor with priority valve	• Max. swing speed 11/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 gear	• Max. speed..... 20 km/h	• Gradeability max.55 %
• Double-acting brake valve	• Off-road speed..... 5 km/h	• Dual circuit brake.....multi-disc
• Travel direction pre-selection via switch in joystick	• Crawling speed.....1 km/h	• Parking brake.....multi-disc

UNDERCARRIAGE

• 40 ton special excavator axles	• 8 tires (twins) PR 16 10.00 - 20
• Steering axle with automatic oscillating axle locking	

FILL CAPACITIES

• Fuel tank 382 Liter	• Engine oil..... 20 Liter	• Hydraulic system.....290 Liter
• Cooling system 42 Liter	• Hydraulic tank..... 224 Liter	• AdBlue® Tank18.9 Liter

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, height- and angle adjustable steering column	• 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 (optional seat heating)	• Operating data display screen	• 2000/14 EG (L _W A) ambience level..103dB(A)
• Arm rests and lumbar support	• Automatic system for monitoring, warning and storage of data	
• Seat adjustable separately from console		

OPERATING WEIGHTS

ADJUSTABLE BOOM	
Base arm 1.95 m (C23.41), Boom 4.23 m (C25.46), Stick 2.65 m (D21.33)	
Support and dozer blade/ outriggers	22.6 t

* Power boost switch Operating weights for road travel with a driver, completely filled and 1,0 t attachment

WORKING EQUIPMENT 220W

Working equipment

BASIC UNIT ATLAS 220W

STANDARD BASIC EQUIPMENT:		
Wheel excavator 220W, support and dozer blade on rigid axle, 2x outrigger support on steering axle, 2 lifting cylinders (A23.33)	Engine: - Automatic idling system - Diesel prefilter - Engine monitoring	- Seat can be adjusted separately from console - Rear view security camera with LCD-colour monitor - Right side camera - Heat absorbing glass, tinted windows - Automotive drive and cruise control - Operating data display screen
BOOM: - Monoblock boom with stick cylinder 5.95 m (C25.3M) - Adjustable boom consisting of base arm 1.95 m (C23.41) with adjustable cylinder and boom 4.23 m (C25.46) with stick cylinder	Hydraulic system: - Proportional grab and 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	- Ready for electric cooling box - Different options for storage, compartment for documents - Bottle holder - Automatic working brake
STICK: - Stick 2,70 m (D25.2) for monoblock boom - Stick 2,65 m (D21.33) for adjustable boom	Cab: - Air conditioning - Preparation for radio installation with mute function - Slim, height and angle adjustable steering column	SUPERSTRUCTURE: - Fold-away condenser - Spacious and lockable storage space in super-structure
BUCKET TIPPING CYLINDER: Bucket tipping cylinder with bucket linkage (F25.1A)		
EQUIPMENT: - Joint bearings in stick and bucket cylinders - Combined lubricating points for swing bearing and arm equipment		UNDERCARRIAGE: - Power shift transmission - Wet disc brakes - Toolbox in undercarriage

ADDITIONAL EQUIPMENT

Engine:	Equipment:	
- Refueling pump - Engine speed adjustment via potentiometer - Auxiliary heating - Cold start assistance	- Automatically controlled and monitored electric central lubrication system - Second toolbox in undercarriage - Transport cover of bucket from 1000mm to 1300mm - Traction motor guard	- Alarm-signal while driving - Beacon light - GPS/GSM Telemetriebox, for monitoring of operating data, fuel consumption, location - Radio/CD/MP3, front AUX in, USB - Electric cooling box - Working lights, LED version
Hydraulic system: - Hydraulic kit, to operate front and rear supports separately - Hydraulic kit, to operate supports per axle separately - Biodegradable oil	Cab: - Cab protection guard - Heated driver's seat - Cab elevation	- Head rest - Proportional control of supports by slide in joystick
Further special equipment: see price list		

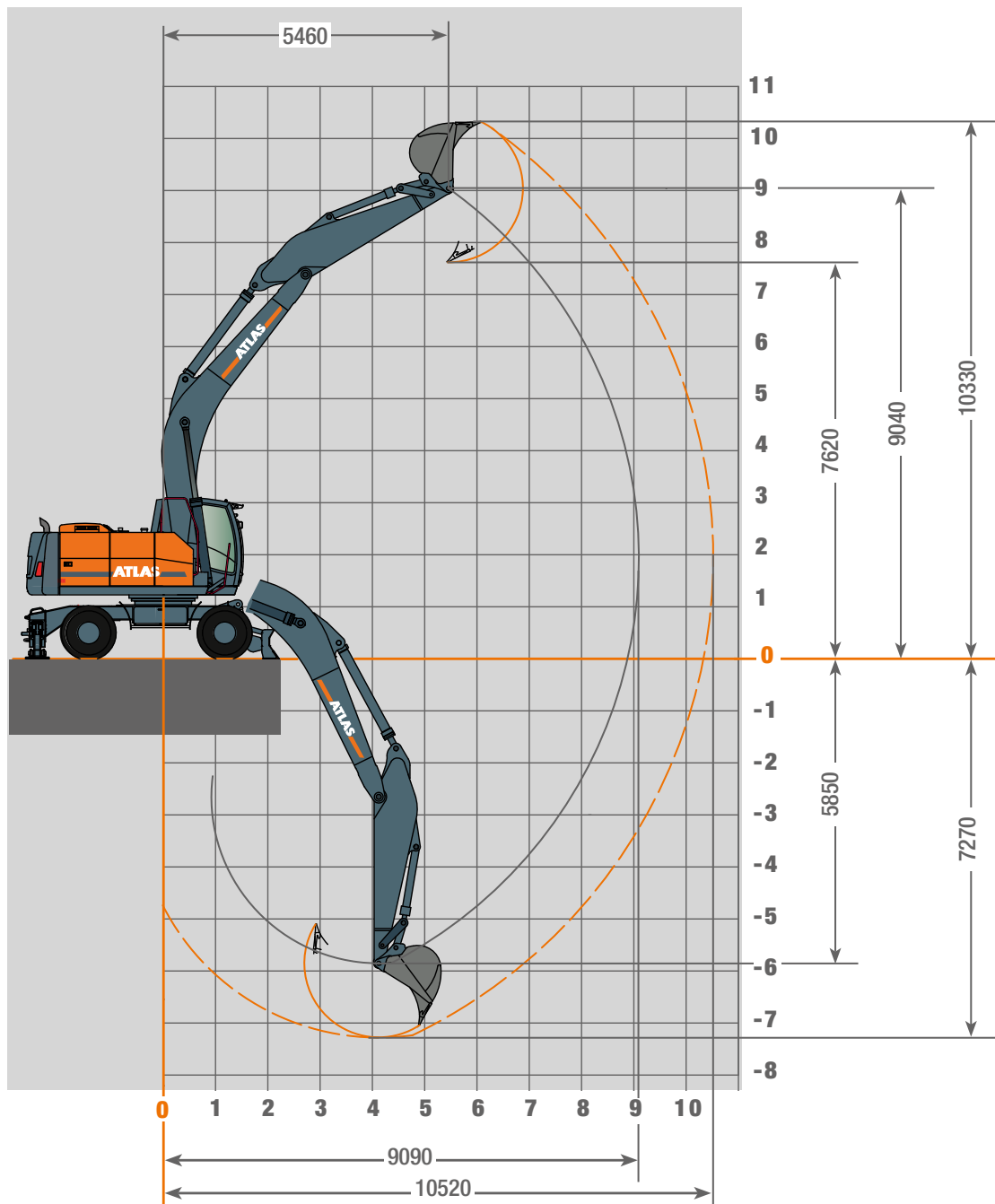
ATTACHMENTS (SELECTION)

	Bucket	Bucket*	Bucket*	Bucket*	Bucket	Trench bucket
	F63.15	F63.26	F63.27	F63.28	F63.29	F63.35
Capacity SAE	0.75 m ³	0.83 m ³	0.93 m ³	1.14 m ³	1.34 m ³	1.14 m ³
Cutting width	850 mm	1000 mm	1100 mm	1300 mm	1500 mm	1300 mm

* A German road authorization under §70 StVZO says only buckets from 1000 mm to 1300 mm cutting width are possible!

WORKING RANGES 220W

Working ranges Monoblock boom 5.90 m (C25.3M) and stick 2.70 m (D25.2)



LIFTING CAPACITIES 220W

Lifting capacities Monoblock boomn 5.90 m (C25.3M)

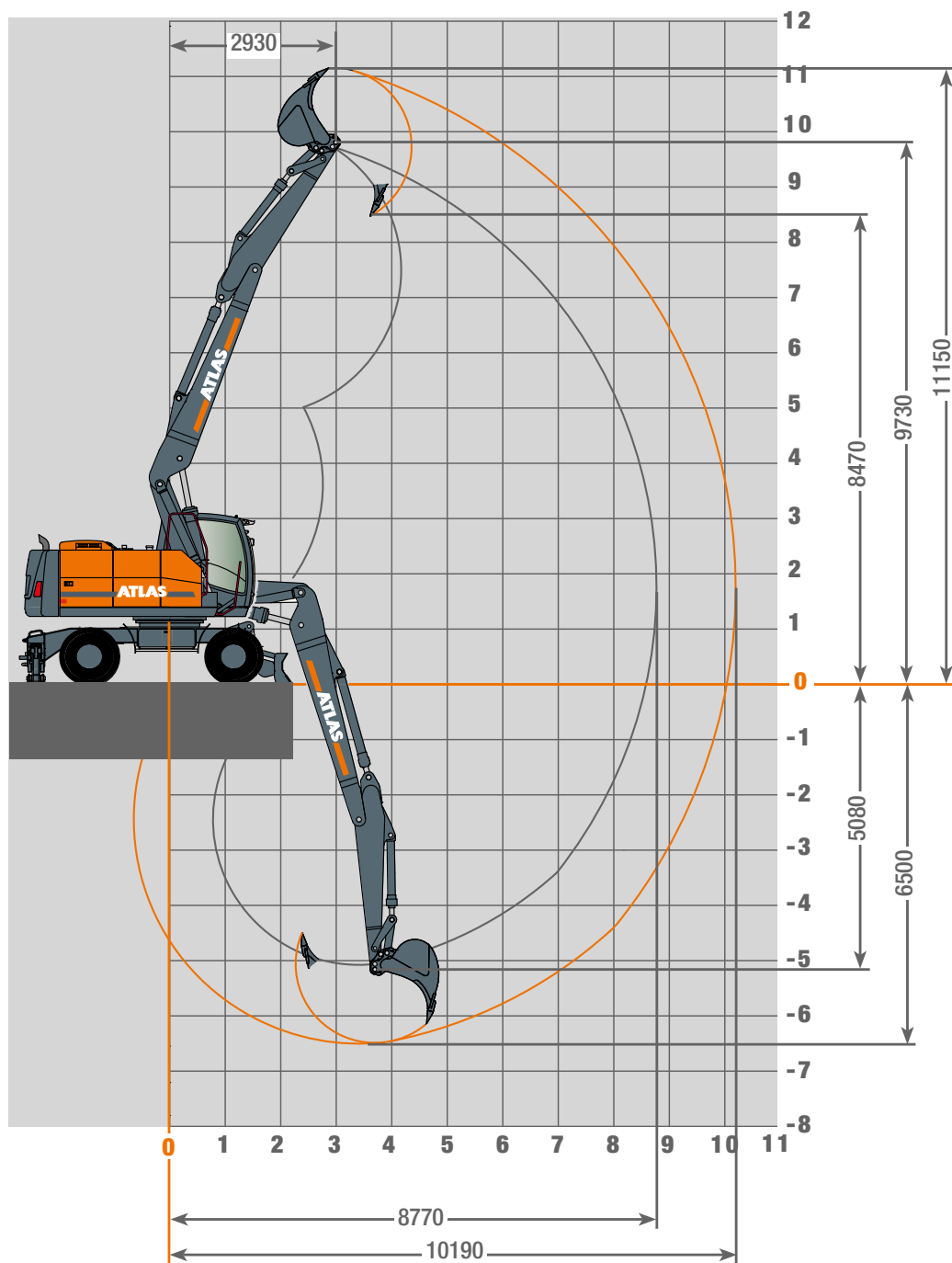
Monoblock boom 5.95 m (C25.3M) and stick 2.5 m (D25.2)														
Height	Undercarriage type		3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m	7.0 m	7.5 m	8.0 m	8,5 m
+7.5 m	FRONT		SDB rear, supported	0	0	0	0	0	9195	9182	0	0	0	0
			SDB front, raised	0	0	0	0	0	-6526	-5622	0	0	0	0
	LATERAL		SDB supported	0	0	0	0	0	-7980	-6985	0	0	0	0
			SDB raised	0	0	0	0	0	-5048	-4361	0	0	0	0
+ 6.0 m	FRONT		SDB rear, supported	0	0	0	0	9922	9576	9300	9088	8947	-8217	0
			SDB front, raised	0	0	0	0	-7483	-6409	-5568	-4886	-4318	-3820	0
	LATERAL		SDB supported	0	0	0	0	-9121	-7992	-6927	-6076	-5374	-4767	0
			SDB raised	0	0	0	0	-5728	-4941	-4310	-3791	-3350	-2955	0
+ 4.5 m	FRONT		SDB rear, supported	0	0	14108	12697	11663	10875	10259	9769	-9165	-8152	-7306
			SDB front, raised	0	0	-10035	-8309	-7049	-6087	-5328	-4712	-4200	-3765	-3384
	LATERAL		SDB supported	0	0	-12955	-10589	-8909	-7652	-6676	-5894	-5252	-4711	-4242
			SDB raised	0	0	-7364	-6211	-5335	-4646	-4089	-3629	-3240	-2904	-2605
+ 3.0 m	FRONT		SDB rear, supported	0	0	0	15670	13864	12544	11537	-10112	-8937	-7986	-7197
			SDB front, raised	0	0	0	-7544	-6496	-5673	-5012	-4469	-4015	-3627	-3291
	LATERAL		SDB supported	0	0	0	-9765	-8320	-7215	-6345	-5641	-5058	-4568	-4147
			SDB raised	0	0	0	-5527	-4833	-4266	-3797	-3402	-3065	-2774	-2517
+ 1.5 m	FRONT		SDB rear, supported	0	0	0	17500	15430	-13094	-11242	- 9831	-8718	-7817	-7071
			SDB front, raised	0	0	0	-7004	-6060	-5324	-4732	-4244	-3835	-3487	-3185
	LATERAL		SDB supported	0	0	0	-9185	-7857	-6847	-6051	-5406	-4872	-4422	-4037
			SDB raised	0	0	0	-5046	-4438	-3946	-3537	-3192	-2897	-2641	-2417
0 m	FRONT		SDB rear, supported	0	0	12266	17587	-15362	-12838	-11023	-9649	-8571	-7705	-6998
			SDB front, raised	0	0	-8209	-6833	-5861	-5132	-4562	-4099	-3715	-3394	-3124
	LATERAL		SDB supported	0	0	-10962	-9002	-7644	-6644	-5872	-5254	-4747	-4326	-3973
			SDB raised	0	0	-5767	-4893	-4258	-3769	-3380	-3057	-2784	-2554	-2359
-1.5 m	FRONT		SDB rear, supported	12739	16540	18220	16552	15042	-12827	-11001	-9630	-8565	-7719	0
			SDB front, raised	12739	-10449	-8296	-6876	-5871	-5123	-4544	-4083	-3710	-3405	0
	LATERAL		SDB supported	12739	-14201	-11057	-9047	-7655	-6634	-5854	-5238	-4741	-4337	0
			SDB raised	-9257	-7169	-5843	-4931	-4267	-3761	-3363	-3042	-2779	-2564	0
-3.0 m	FRONT		SDB rear, supported	18578	17113	15711	14397	13177	12044	10970	-9764	0	0	0
			SDB front, raised	14316	-10684	-8492	-7036	-6003	-5236	-4648	-4191	0	0	0
	LATERAL		SDB supported	18578	-14463	-11271	-9219	-7795	-6753	-5963	-5350	0	0	0
			SDB raised	-9458	-7368	-6015	-5074	-4386	-3865	-3460	-3143	0	0	0
-4.5 m	FRONT		SDB rear, supported	13026	12165	11245	10266	9188	7827	0	0	0	0	0
			SDB front, raised	13026	-11117	-8863	-7366	-6314	-5559	0	0	0	0	0
	LATERAL		SDB supported	13026	12165	11245	-9574	-8126	-7095	0	0	0	0	0
			SDB raised	-9887	-7736	-6339	-5369	-4668	-4161	0	0	0	0	0

Monoblock boom 5.95 m (C25.3M) and stick 3/2 m (D25.3)															
Height	Undercarriage type		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	8,5 m	9.0 m
+9.0 m	FRONT		SDB rear, supported	0	0	0	0	0	8691	0	0	0	0	0	0
			SDB front, raised	0	0	0	0	0	-6556	0	0	0	0	0	0
	LATERAL		SDB supported	0	0	0	0	0	-7950	0	0	0	0	0	0
			SDB raised	0	0	0	0	0	-5077	0	0	0	0	0	0
+7.5 m	FRONT		SDB rear, supported	0	0	0	0	0	7982	8018	8108	0	0	0	0
			SDB front, raised	0	0	0	0	0	-5778	-5032	-4404	0	0	0	0
	LATERAL		SDB supported	0	0	0	0	0	-7103	-6227	-5463	0	0	0	0
			SDB raised	0	0	0	0	0	-4507	-3928	-3432	0	0	0	0
+ 6.0 m	FRONT		SDB rear, supported	0	0	0	0	0	8313	8175	8066	7994	-7408	0	0
			SDB front, raised	0	0	0	0	0	-5672	-4970	-4391	-3901	-3474	0	0
	LATERAL		SDB supported	0	0	0	0	0	-7036	-6163	-5449	-4851	-4334	0	0
			SDB raised	0	0	0	0	0	-4409	-3871	-3420	-3034	-2691	0	0
+ 4.5 m	FRONT		SDB rear, supported	0	0	0	11103	10377	9802	9337	8957	8644	-8175	-7329	-6613
			SDB front, raised	0	0	0	-8541	-7205	-6194	-5401	-4761	-4233	-3789	-3407	0
	LATERAL		SDB supported	0	0	0	-10836	-9073	-7764	-6751	-5945	-5285	-4735	-4265	-3866
			SDB raised	0	0	0	-6420	-5478	-4745	-4158	-3676	-3272	-2927	-2628	-2361
+ 3.0 m	FRONT		SDB rear, supported	0	0	16178	14135	12671	11572	10720	10043	-8925	-7965	-7171	-6502
			SDB front, raised	0	0	-9205	-7705	-6588	-5725	-5037	-4476	-4009	-3613	-3273	-2976
	LATERAL		SDB supported	0	0	-12047	-9937	-8417	-7269	-6370	-5647	-5052	-4553	-4127	-3758
			SDB raised	0	0	-6641	-5674	-4919	-4315	-3821	-3410	-3061	-2762	-2501	-2270
+ 1.5 m	FRONT		SDB rear, supported	0	0	14390	16576	14629	-13040	-11182	-9766	-8651	-7748	-7002	-6373
			SDB front, raised	0	0	-8269	-6991	-6035	-5289	-4690	-4197	-3784	-3433	-3130	-2865
	LATERAL		SDB supported	0	0	-11025	-9170	-7828	-6809	-6006	-5356	-4818	-4366	-3979	-3644
			SDB raised	0	0	-5822	-5036	-4417	-3916	-3500	-3150	-2851	-2592	-2366	-2166
0 m	FRONT		SDB rear, supported	0	9576	14786	17453	-15142	-12665	-10873	-9514	-8445	-7583	-6871	-6276
			SDB front, raised	0	9576	-7905	-6630	-5710	-5007	- 4450	-3995	-3616	-3295	-3020	-2782
	LATERAL		SDB supported	0	9576	-10628	-8782	-7482	-6511	-5754	-5145	-4643	-4223	-3865	-3559
			SDB raised	0	-6655	-5503	-4714	-4123	-3657	-3278	-2962	-2693	-2462	-2261	-2066
-1.5 m	FRONT		SDB rear, supported	0	15702	19068	17031	-15022	-12538	-10755	-9412	-8364	-7526	-6842	-6284
			SDB front, raised	0	-9916	-7907	-6574	-5624	-4912	-4358	-3914	-3550	-3248	-2995	-2789
	LATERAL		SDB supported	0	-13604	-10631	-8721	-7391	-6410	-5657	-5060	-4574	-4174	-3840	-3566
			SDB raised	0	-6720	-5506	-4664	-4045	-3570	-3193	-2886	-2631	-2417	-2238	-2093
-3.0 m	FRONT		SDB rear, supported	20566	19047	17123	15477	14052	-12622	-10823	-9476	-8433	-7613	0	0
			SDB front, raised	13565	-10136	-8065	-6686	-5706	-4975	-4411	-3965	-3606	-3320	0	0
	LATERAL		SDB supported	19186	-13849	-10803	-8842	-7478	-6477	-5713	-5113	-4633	-4249	0	0
			SDB raised	-8854	-6907	-5644	-4764	-4119	-3627	-3242	-2933	-2684	-2486	0	0
-4.5 m	FRONT		SDB rear, supported	16549	14996	13639	12416	11285	10205	9110	0	0	0	0	0
			SDB front, raised	14074	-10529	-8383	-6954	-5939	-5189	-4622	0	0	0	0	0
	LATERAL		SDB supported	16549	-14288	-11150	-9129	-7726	-6703	-5934	0	0	0	0	0
			SDB raised	-9267	-7240	-5922	-5003	-4331	-3824	-3437	0	0	0	0	0

The specified max. loading capacities in kilogrammes (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 220W

Working ranges Adjustable boom: Base arm 1.95 m (C23.41) and boom 4.23 m (C25.46)



LIFTING CAPACITIES 220W

Lifting capacities Adjustable boom: Base arm 1.95 m (C23.41) and boom 4.23 m (C25.46)

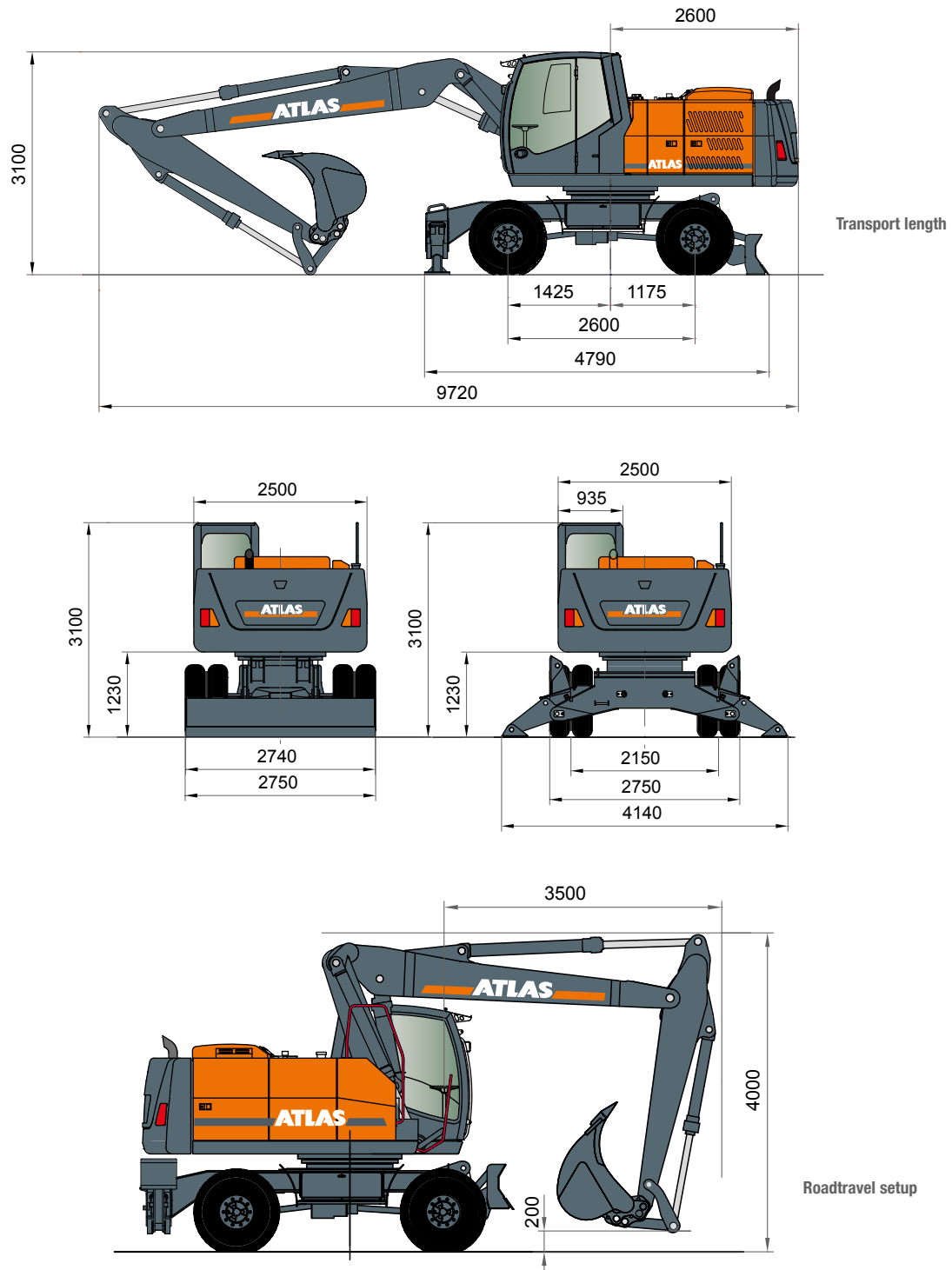
Adjustable boom: Base arm 1.95 m (C23.41), boom 4.23 m (C25.46) with stick 2.65 m (D21.33). Max. reach 10.25 m														
Height	Undercarriage type		3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m	7.0 m	7.5 m	8.0 m	8.5 m
+9.0 m	FRONT		SDB rear, supported	0	0	7646	6474	0	0	0	0	0	0	0
			SDB front, raised	0	0	7646	6474	0	0	0	0	0	0	0
	LATERAL		SDB supported	0	0	7646	6474	0	0	0	0	0	0	0
			SDB raised	0	0	-7248	-6305	0	0	0	0	0	0	0
+7.5 m	FRONT		SDB rear, supported	0	0	0	6976	6961	6972	6608	4703	0	0	0
			SDB front, raised	0	0	0	6976	-6736	-6073	-5342	-4614	0	0	0
	LATERAL		SDB supported	0	0	0	6976	6961	6972	6608	4703	0	0	0
			SDB raised	0	0	0	-6221	-5563	-4833	-4158	-3587	0	0	0
+ 6.0 m	FRONT		SDB rear, supported	0	0	6865	7172	7338	7160	7018	6901	6657	5198	0
			SDB front, raised	0	0	6865	7172	-6837	-6109	5422	-4805	-4201	-3685	0
	LATERAL		SDB supported	0	0	6865	7172	7338	7160	-6632	-5893	-5215	-4599	0
			SDB raised	0	0	6865	-6355	-5563	-4865	-4294	-3767	-3287	-2871	0
+ 4.5 m	FRONT		SDB rear, supported	10543	11481	10230	9339	8673	8161	7663	7239	6932	6702	6060
			SDB front, raised	10543	11481	-9669	-8094	-6943	-6053	-5348	-4780	-4273	-3761	-3323
	LATERAL		SDB supported	10543	11481	10230	9339	-8574	-7436	-6549	-5839	-5258	-4671	-4152
			SDB raised	10543	-8662	-7405	-6279	-5433	-4778	-4249	-3812	-3357	-2944	-2587
+ 3.0 m	FRONT		SDB rear, supported	9710	11579	12478	11364	10093	9168	8446	7873	7428	7064	6821
			SDB front, raised	9710	11579	-9390	-7893	-6780	-5936	-5271	4735	-4261	-3754	-3323
	LATERAL		SDB supported	9710	11579	11821	-9827	-8382	-7294	-6452	-5775	-5226	4661	-4150
			SDB raised	9710	-8609	-7139	-6100	-5299	-4684	-4187	-3781	-3351	-2938	-2587
+ 1.5 m	FRONT		SDB rear, supported	12899	13633	13763	13502	11680	10362	9389	8639	8044	7578	-6965
			SDB front, raised	12899	-11429	-9257	-7776	-6702	-5877	-5239	-4737	-4173	-3679	-3263
	LATERAL		SDB supported	12899	13633	-11685	-9698	8286	7226	6408	-5758	-5177	-4582	-4087
			SDB raised	10590	-8434	-7013	-5996	-5232	-4635	-4167	-3726	-3264	-2865	-2530
0 m	FRONT		SDB rear, supported	16644	16176	15451	14276	12697	11315	10221	9339	-8459	-7673	-6864
			SDB front, raised	15020	-11478	-9295	7797	-6725	-5879	-5181	-4575	-4009	-3547	-3163
	LATERAL		SDB supported	16644	-14754	11722	-9726	-8315	-7265	-6466	-5699	-5014	-4454	-3988
			SDB raised	10477	-8368	-6948	-5920	-5137	-4517	-4009	-3555	-3106	-2741	-2435
-1.5 m	FRONT		SDB rear, supported	21260	18982	16483	14410	12801	11516	10470	-9511	-8480	-7538	-6787
			SDB front, raised	14905	-11316	-9110	-7610	-6519	-5685	-4954	-4327	-3825	-3408	-3084
	LATERAL		SDB supported	20177	-15004	-11878	-9781	-8297	-7186	-6241	-5459	-4831	-4314	-3907
			SDB raised	10077	-8018	-6649	-5667	-4924	-4339	-3799	-3320	-2934	-2610	-2361
-3.0 m	FRONT		SDB rear, supported	23422	19530	16740	14650	13037	11797	10643	9426	7976	0	0
			SDB front, raised	14737	-11159	-8972	-7479	-6284	-5390	-4702	-4161	-3733	0	0
	LATERAL		SDB supported	20428	-14907	-11726	-9640	-8047	-6874	-5982	-5286	-4736	0	0
			SDB raised	-9941	-7885	-6528	-5550	-4711	-4068	-3565	-3165	-2848	0	0
-4.5 m	FRONT		SDB rear, supported	23158	19065	15944	13387	11101	0	0	0	0	0	0
			SDB front, raised	14675	-11004	-8750	-7231	-6141	0	0	0	0	0	0
	LATERAL		SDB supported	20356	-14734	-11484	-9373	-7895	0	0	0	0	0	0
			SDB raised	-9891	-7753	-6334	-5329	-4582	0	0	0	0	0	0

The specified max. loading capacities in kilogrammes (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.

DIMENSIONS 220W

Dimensions

A23.33, C27.41, C25.46, D21.33, F25.1, F63.27



For driving on public roads, excavators with TÜV approval to ensure the axle load of 12 t must be switched to the road mode, i.e. the steering axle is located behind in the direction of travel.

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220W**



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