ATLAS SINCE 1919

POWERFUL.
OPTIMISED.
COMFORTABLE.

- 17.6 t
- 149 kW (203 HP)
- 3.0 - 6.5 m^3

WHEEL LOADER L310

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TECHNICAL SPECIFICATION L310

Technical specifications

ENGINE

Net power rating at 2200 rpm (ISO 9249).....149 kW / 2200 min^{-1}	Number of cylinders.....6	Battery.....2 x 12 V / 100 Ah / 900 A
Make / model ..... Cummins QSB 6.7 T4Final	Cooling system.....Water-cooled	Alternator..... 24 V / 70 A
Design.....Turbocharger / charge-air cooling	Air filter..... Cyclone air filter	Starter..... 24 V / 4,8 kW
Torque..... 929 Nm / 1500 min^{-1}		

HYDRAULIC SYSTEM

• Max. flow..... 220 l/min	• Load-sensing pump variable displacement pump for working hydraulic	• 3rd Hydraulic loop as standard
• Max. operating pressure ..... 350 bar	• Hydraulic oil cooling with thermostat	• Pilot operated control circles for Lift/Lower, Dump, Tilt
• Return - Suction oil filter	• Proportional and sensitive operation with LUDV control block	• All main functions control trough one joystick

LOADING EQUIPMENT

• Combined P+Z Kinematic	• Lifting.....6,5 s	• Standard bucket for general purpose 3.1 m^3 with material density 1.8 kg/dm^3
• 2x Lifting cylinders	• Lowering.....4 s	• Lift capacity at ground level (ISO 14397-2)..... 232 kN*
• 1x Bucket cylinder	• Dumping .....2,8 s	• Breakout force at bucket edge (ISO 14397-2) with quick-attachment...129 kN*
• Parallel lifting due to combined kinematic	• Tipping .....2,5 s	• Breakout force at bucket edge (ISO 14397-2) with direct mounted..... 154 kN*
	• Total cycle time .....15,8 s	** with standard bucket*

DRIVELINE

• Continues variable transmission	• Traveling using inch pedal	• Multi-disc brakes on both axels, with separate circles
• Suction - Return filter	• Two variable displacement motors driven by one variable displacement pump	• Slow drive.....0 - 6 km/h
• Automotive drive	• Tractive effort .....135 kN	• Fast drive.....0 - 40 km/h
• Close loop system	• Parking brake on rear axle	

STEERING

• 2 x Steering cylinders	• Proportional hydraulic steering	• Quick steering with only 45° steering wheel turn
• Load-sensing variable displacement pump	• Electrical emergency pump as standard	• 80° total steering angle

AXLES

• Front rigid axle	• 30% self differential lock	• Planetary gear set in wheel hub
• Rear oscillation axle	• Oscillation angle.....± 12°	• Flange mass.....2180 mm

CAB

• ROPS tested ISO 3471	• 2 x doors with 180 aparture angle	• Cushion adjustable driver seat
• FOPS tested ISO 2449	• 2 x front and read lights on the roof	**SOUND LEVELS:**
• A/C and heating unit	• Electrical front and read windshield wipers	• ISO 6396 (L_pA) in driver's cab.....79 dB (A)
• Ergonomical design	• Combi-instrument with CAN network	• 2000/14 EG (L_wA) ambience level.....104 dB (A)

FILL CAPACITIES

• Fuel tank .....250 l	• AdBlue© .....34 l	• Axles middle hub, each axle.....20 l
• Cooling system.....38 l	• Hydraulic oil total .....165 l	• Axle wheel hub, each axle.....5 l
• A/C.....900 g	• Hydraulic oil tank .....134 l	• Gear box .....4,3 l
• Engine oil.....15 l		

WORKING EQUIPMENT L310

TIRES

• 23.5R25 EM60 16PR Mitas.....Standard	• 23.5R25 RL-5K Goodyear	• 750/65R25 TL-3A+ Goodyear
OPTION:	• 23.5R25 RT-3B Goodyear	• 750/65R25 VTS Brudgestone
• 23.5R25 VJT L3 Bridgestone	• 23.5R25 XHA 2 Michelin	• More available on request

ADDITIONAL STANDARD EQUIPMENT

• Air Conditioner	• Operating data display screen	• Proportional joystick for 3rd hydraulic circle
• Prepared for Radio	• SCR and DOC Catalysators	• Main battery switch operating in cab
• Steering column height and tilt adjustible	• Reversible Fan	

OPTIONAL EQUIPMENT

• Quick attachment	• Camera	• Guard for front and read lights
• 4rd hydraulic circle	• Bacon light	• Backalarm for reverse traveling
• Refuling pump	• Gear protection	• Automatic bucket positioning
• Central lubrication	• Anti- Tief device	• Trailer coupling
• Radio	• Pressurised cabin	• Speed limitation
• LED working lights	• TÜV	• Corrosion protect against salty environment
• Fog lights. 2x front or 2x frond and 2 in middle of machine	• Ride control	• And more available on request

FORK LIFT ATTACHMENT

• Operating load over the total lift and steering range.....9000 kg	• Length pallet forks (150 x 70 mm)....1200 mm	• Operating load determined on level ground = 80% of tipping load, articulated
• Width of fork carrier.....1900 mm	• Stability factor.....1,25	

BUCKET TYPE*

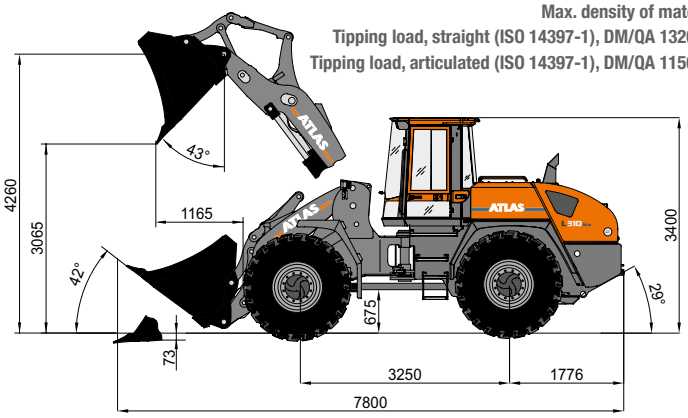
	QA D	Volume	Material density	Teeth Cutting edge	Fill factor	Dumping height (A)
General-purpose bucket, round form	QA	3.0 m^3	1.8 kg/dm^3	Teeth	100%	N/A
General-purpose bucket	D	3.1 m^3	1.8 kg/dm^3	Teeth	105%	N/A
General-purpose bucket	QA	3.0 m^3	1.8 kg/dm^3	Teeth	100%	N/A
General-purpose bucket, round form	D	3.1 m^3	1.8 kg/dm^3	Teeth	105%	N/A
General-purpose bucket, round form	QA	3.0 m^3	1.8 kg/dm^3	Cutting edge	100%	N/A
General-purpose bucket, round form	D	3.1 m^3	1.8 kg/dm^3	Cutting edge	105%	N/A
Earth bucket	QA	3.2 m^3	1.6 kg/dm^3	Teeth	110%	N/A
Light-material bucket	D	4.0 m^3	1.2 kg/dm^3	Cutting edge	110%	N/A
Light-material bucket	D	5.0 m^3	0.8 kg/dm^3	Cutting edge	110%	N/A
Light-material bucket	QA	4.8 m^3	0.8 kg/dm^3	Cutting edge	110%	N/A
Light-material bucket	D	6.5 m^3	0.6 kg/dm^3	Cutting edge	110%	N/A
High-tip bucket	D	4.5 m^3	0.8 kg/dm^3	Cutting edge	110%	N/A
High-tip bucket	D	6.0 m^3	0.6 kg/dm^3	Cutting edge	110%	N/A
High-tip bucket	QA	4.3 m^3	0.8 kg/dm^3	Cutting edge	110%	N/A
HD bucket	D	3.0 m^3	1.8 kg/dm^3	Teeth	105%	N/A

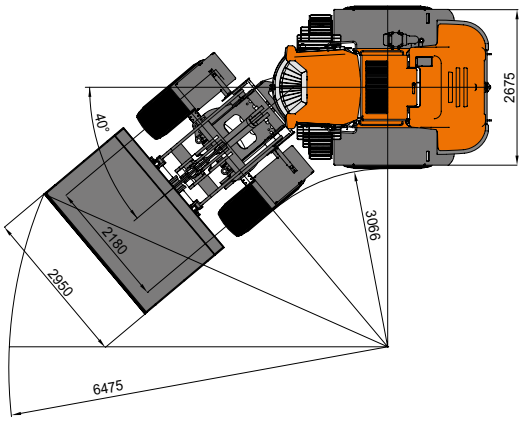
**general safety factor by ISO 14397–1, S=2*

DIMENSIONS L310

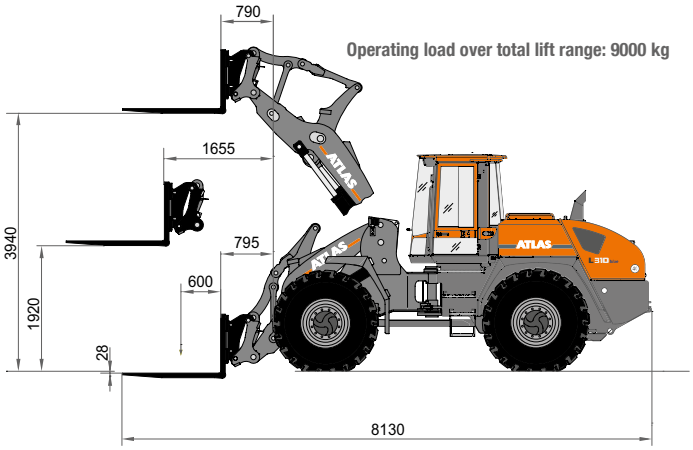
Dimensions with standard Bucket

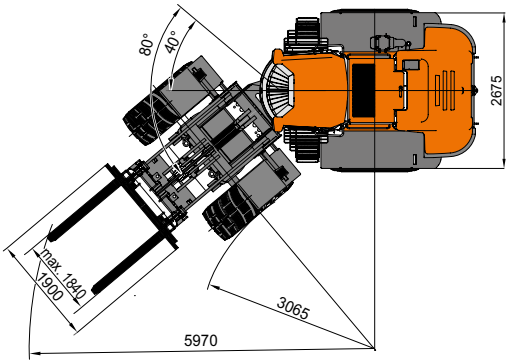
Capacity in compare with ISO 7546: 3,1 m³
Max. density of material: 1,8 t/m³
Tipping load, straight (ISO 14397-1), DM/QA 13200 / 12700 kg
Tipping load, articulated (ISO 14397-1), DM/QA 11500 / 11000 kg





Operating load over total lift range: 9000 kg





EXAMPLES OF MATERIAL DENSITY (t/m³)

Construction	sediment 2.1	paper 0.9
concrete 1.9	crushed stone 1.5	slag 1.0
soil (dry) 1.5	de-icing salt 1.3	slag concrete 2.7
soil (watery) 2.0	clay 1.6	**Landscaping, Agriculture**
rock (fill) 2.4	cement 1.7	agricultural crop 0.7
granite 1.8	clinker (stacked) 1.8	grain 0.6
limestone 1.6	**Industry**	hay 0.3
gravel (dry) 1.9	ember 0.7	potash 1.1
gravel (watery) 2.1	brown coal briquette 0.8	compost 1.0
loam 1.7	ferrous product 7.8	flour 0.5
plaster 2.2	iron ore 2.3	clay (watery) 2.3
sand (dry) 1.9	cullet 1.9	phosphate fertiliser 2.2
sand (watery) 2.1	gas coke 0.4	turf (watery) 1.1
sandstone 2.4	timber 0.8	turf (dry) 0.4
shale 2.2	mineral coal 1.2	mineral fertilizer 1.0

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