POWERFUL, OPTIMISED, COMFORTABL

ATL

Wheel Loader L310





Features

- **Excellent all-round visibility**
- Steel cab with perfectly designed operator's stand
- **Easy service accessibility for minimized downtime**
- **Ergonomically designed controls for fatigue-free operation**
- **Self-locking differentials provide optimum traction**
- **Loader frame with TSP kinematics**
- Fuel efficient Cummins turbocharged diesel engine
- Fully automatic VarioPower transmission for smooth acceleration up to 40 kph





17,6 t



149 kW (203 HP)



3,0 - 6,5 m³



ENGINE

| Manufacturer, model | Cummins, QSB 6 | 3.7 |
|-------------------------|--|------|
| Туре | 6-cylinder turbocharged diesel engine, COM III/EPA | llI. |
| Combustion | 4-stroke cycle, Common Rail injection | on |
| Displacement | 6700 cr | m³ |
| Net power rating at 220 |) rpm (ISO 9249) 149 kW (203 h | ıp) |
| Cooling system | Wat | ter |
| | | |

ELECTRICAL SYSTEM

Nominal voltage 24 V

Lighting system in compliance with German and European standards

POWER TRANSMISSION

Hydrostatic drive, closed circuit, independent from loader hydraulics. Driving automatics, that is, automatic optimization and adjustment of drawbar pull and speed. The travel drive in closed circuit additionally acts as nonwearing service brake. Hydraulic motor power shift providing two speed ranges. Infinitely variable speed control forward and reverse. 4-wheel drive from reduction gear on rear axle via cardan shaft to front axle. One inchbrake-drive pedal for sensitive driving and stopping at high engine speed.

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|---|---|---|---|----|
| _ | ູ | _ | | |

| "Low" | 0-6 km/h |
|--------|-----------|
| "High" | 0-40 km/h |

AXLES

Front: Planetary drive axle, rigidly mounted. Limited slip-type differential 45%. Rear: Oscillating (with cushioning) planetary final drive axle, with integrated

reduction gear. Limited slip-type differential 45%.

Angle of oscillation +12°

TIRES

Standard 23.5 R25 VJT Bridgestone

BRAKES

Hydraulically actuated two-circuit power brake system. Service brake: Oil-immersed multi-disc brakes in both axles, acting on all 4 wheels via 4-wheel drive.

Auxiliary brake: Hydrostatic drive provides dynamic braking Parking brake: Spring-loaded brake acting on the discs of the rear axle

STEERING

Fully hydraulic, proportionally acting articulated steering. 2 steering cylinders with final positioning damping on both sides provide for powerful steering. The steering oil supply follows the load-sensing-system; this ensures that the working hydraulics oil volume is available to the steering system as needed, so that fast steering movements are possible even at low engine speeds.

Total steering angle

LOADER FRAME

| Loader frame with TSP-linkage, attachments directly mounted. | |
|---|---------------------|
| General-purpose bucket (ISO 7546) | 3,10 m ³ |
| Operating load in general-purpose bucket 3.0 m^3 , quick-attach system | 5400 kg |
| Operating load in general-purpose bucket 3.1 m³, direct mounting | 5580 kg |
| Lift capacity at ground level (ISO 14397-2) | 232.000 N |
| Breakout force at bucket edge (ISO 14397-2), quick-attach system | 128.900 N |
| Breakout force at bucket edge (ISO 14397-2), direct mounting | 153.600 N |

FLUID CAPACITIES

| Fuel tank | 240 I |
|-------------------------------|-------|
| Hydraulic system (incl. tank) | 135 I |



HYDRAULIC SYSTEM

| Pump capacity | 220 l/min |
|------------------|-----------|
| Working pressure | 350 bar |

Control unit: Three-circuit control block with load-sensing flow distribution (LUDV). Simultaneous, independent control of all movements. Sensitive maneuvers irrespective of loads. Control circuits "Lift / Lower", "Dump / Tilt-back" pilot-operated. Additional control circuit electrically operated with preselection of flow rate and impulse/continous operation. Ease of operation thanks to single, four-way control lever (joystick) with integrated direction-of-travel switch and switch for additional control circuit.

FORK LIFT ATTACHMENT

| Operating load over the total lift and steering range | 9000 kg |
|---|-------------|
| Width of fork carrier | 1900 mm |
| Length pallet forks (150x70 mm) | 1200 mm |
| Stability factor | 1,25 |
| Operating load determined on level ground = 80 % of tipping load, | articulated |

CAB

Removable roll-over secure driver's cab, ROPS tested according to ISO 3471, FOPS tested according to ISO 3449, only with skylight guard. Panoramic, tinted safety glass, with skylight window. 2 doors, 180° aperture angle, foldable rear mirrors. 2 front and 2 rear working floodlights. Sliding window in left door standard. Electrical windshield intermittent wipers with front and rear washing system. Cab heating through coolant heat exchanger with 3-speed heater fan, windshield defroster front and rear, 2 adjustable outlet nozzles for front window, foot space and rear windows. Heating blower convertible from circulating to fresh air mode. Fresh air filter with a dust filtration unit of 2.8 µm.

Ergonomically designed driver station with functional design, very good circumferential visibility and optimally designed control elements. All operating functions are ergonomically arranged. Driver's seat with hydraulic cushioning, progressively adjustable to operator's weight, lap belt, longitudinal and height adjustment, in compliance with ISO 7096 and ISO 6683. Level and elastically mounted driver cab floor makes entry and exit as well as cab cleaning easier.

Air conditioning as standard. Radio pre-installation.

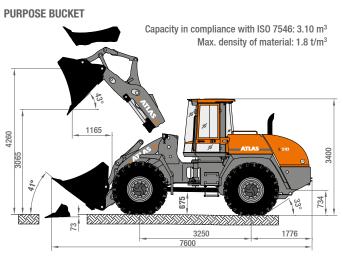
Height and tilt-adjustable steering wheel.

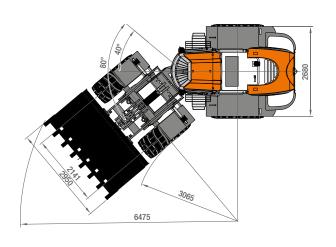
Holders and deposit for on-board tools, first-aid kit and operating manuals. Sound level values in compliance with EC-directives.

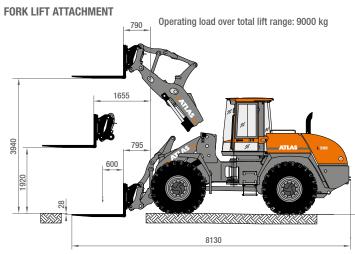
OPERATING DATA, STANDARD EQUIPMENT

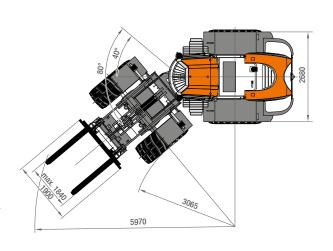
| Operating weight (ISO 6016) | 17600 kg |
|--|------------------|
| Unladen weight | 17300 kg |
| Tipping load, straight at full reach (ISO 14397-1), direct mounting / QAS | 13200 / 12700 kg |
| Tipping load, articulated at full reach (ISO 14397-1), direct mounting / QAS | 11500 / 11000 kg |
| Total length, bucket on ground | 7600 mm |
| Total width | 2680 mm |
| Turning radius at outside bucket edge | 6475 mm |
| Turning radius at outside edge of tires | 5900 mm |
| Turning radius at inside edge of tires | 3065 mm |
| Wheelbase | 3250 mm |
| Total height (top of cab) | 3400 mm |

Courtesy of Machine. Market









| BUCKET TYPE | Capacity | Density | Width | Dump height |
|--|----------------------------|----------------------|----------------|----------------------------|
| General-purpose bucket, quick-attach system (QAS), teeth | 3.00 m ³ | 1.8 t/m ³ | 2950 mm | 3065 mm |
| General-purpose bucket, QAS, bolt-on cutting edge | 3.00 m ³ | 1.8 t/m ³ | 2950 mm | 3065 mm |
| General-purpose bucket, directly mounted, teeth | 3.10 m ³ | 1.8 t/m ³ | 2950 mm | approx. 3135 mm |
| General-purpose bucket, directly mounted, bolt-on cutting edge | 3.10 m ³ | 1.8 t/m ³ | 2950 mm | approx. 3135 mm |
| Earth bucket, QAS, teeth | 3.30 m ³ | 1.6 t/m ³ | 2950 mm | approx. 3025 mm |
| Earth bucket, QAS, bolt-on cutting edge | 3.30 m ³ | 1.6 t/m ³ | 2950 mm | approx. 3025 mm |
| Earth bucket, directly mounted, teeth | 3.20 m ³ | 1.6 t/m ³ | 2950 mm | approx. 3095 mm |
| Earth bucket, directly mounted, bolt-on cutting edge | 3.20 m ³ | 1.6 t/m ³ | 2950 mm | approx. 3095 mm |
| Light-material bucket, QAS, bolt-on cutting edge | 3.80 m ³ | 1.2 t/m ³ | 2950 mm | approx. 2885 mm |
| Light-material bucket, directly mounted, bolt-on cutting edge | 4.00 m ³ | 1.2 t/m ³ | 2950 mm | approx. 2675 mm |
| Light-material bucket, QAS, bolt-on cutting edge | 4.80 m ³ | 0.8 t/m ³ | 2950 mm | approx. 2675 mm |
| Light-material bucket, directly mounted, bolt-on cutting edge | 5.00 m ³ | 0.8 t/m ³ | 2950 mm | NA |
| Light-material bucket, QAS, bolt-on cutting edge | 6.30 m ³ | 0.6 t/m ³ | 2950 mm | NA |
| Light-material bucket, directly mounted, bolt-on cutting edge | 6.50 m ³ | 0.6 t/m ³ | 2950 mm | NA |
| High-tip bucket, QAS, bolt-on cutting edge | 4.30 m ³ | 0.8 t/m ³ | 2950 mm | NA |
| High-tip bucket, QAS, bolt-on cutting edge | 4.50 m ³ | 0.8 t/m ³ | 2950 mm | NA |
| High-tip bucket, QAS, bolt-on cutting edge | 5.80 m ³ | 0.6 t/m ³ | 2950 mm | NA |
| High-tip bucket, QAS, bolt-on cutting edge | 6.00 m ³ | 0.6 t/m ³ | 2950 mm | NA |
| EXAMPLES OF MATERIAL DENSITIES | | | | |
| Granite, basalt, sand (damp), gravel (damp), slate: | 1,8 - 2,2 t/m ³ | Topsoil, clay, mine | eral coal: | 1,1 - 1,6 t/m ³ |
| Sandstone, gypsum, limestone, soil (damp), sand (dry), gravel (dry): | 1,5 - 1,8 t/m ³ | Wood chips (dry), | compost, coke: | 0,2 - 1,0 t/m ³ |



OPTIONAL EQUIPMENT

TIRES

23.5-25 EM 60 Mitas 650/65 R 25 GP-3D Goodyear
23.5 R 25 VSDT L5 Bridgestone 650/65 R 25 XLD Michelin
23.5 R 25 XHA2 L3 Michelin 750/65 R 25 VTS Bridgestone
23.5 R 25 XLDD 2A L5 Michelin 750/65 R 25 TL-3A+ Goodyear
23.5 R 25 XMINE D2 L5 Michelin 620/75 R 26 DT824 Goodyear
23.5 R 25 TL-3A+ Goodyear Non-standard tires available on request
23.5 R 25 RT-3B Goodyear

FRONT ATTACHMENTS

| HD bucket | 3,00 m ³ | Light-material bucket* | 5,00 m ³ | | | |
|---|---------------------|------------------------|---------------------|--|--|--|
| General-purpose bucket* | 3,10 m ³ | Light-material bucket* | 6,50 m ³ | | | |
| Earth bucket* | 3,30 m ³ | High-tip bucket* | 4,50 m ³ | | | |
| Light-material bucket* | 4,00 m ³ | High-tip bucket* | 6,50 m ³ | | | |
| Fork carrier, 1900 mm wide, ISO 2328, class 3, form B | | | | | | |
| Forks, 1500 mm long, cross section 150x70 mm | | | | | | |
| Load hook, attachable on fork arms | | | | | | |
| Load hook integrated in quick-attach system | | | | | | |
| *optionally with bolt-on cutting edge | | | | | | |

ENGINE

| Diesel particle filter | Catalyst |
|------------------------------------|-------------------|
| Preheater for cooling water, 230 V | Cyclone prefilter |

DRIVER'S STAND

Operator's seat MSG85 (comfort version), hydraulic damping, extra-high backrest, weight-adjustable, lap belt

Air-cushioned operator's seat MSG 95 (premium version) with orthopedic lumbar support, extra-high backrest, adjustable armrests, headrest, seat and backrest heating

HYDRAULIC SYSTEM

| Open return | 4th control circuit, electrical "on-or-off" |
|---|---|
| Filling with biodegradable hydraulic oil, ester-based, BIO-E-HYD-HEES | 4th control circuit, proportional |

CAI

| CAB | |
|--|---|
| Right-hand door with sliding window | Dust protection system |
| Working floodlights system Xenon | Independent diesel heating with timer |
| Yellow beacon | Anti-theft device (immobilizer) |
| Pressurized cab system | Preparation for close range illumination |
| 2 Zusatzscheinwerfer für Nahfeldbeleuchtung vorne | 4 Zusatzscheinwerfer für Nahfeldbeleuchtung vorne und maschinenmittig |

OTHER OPTIONAL EQUIPMENT

| UTHER UPTIONAL EQUIPMENT | |
|--|--|
| "TÜV"-approval (Germany only) | Registration package - Germany only - consisting of: safety labeling, adjustable bucket safety bar (teeth protector) with lighting and warning plates license plate holder with illumination, yellow rotating beacon; in addition "TÜV" approval |
| Electrical tank refilling pump | Dynamic scales, with printer |
| Pilot-controlled hose-rupture valves for lift and tilt cylinders | Ride control system |
| Back-up alarm for reverse travel | Battery disconnector |
| Central lubrication system | Protection for cardan shaft |
| Versa-Steer steering system | Guard for front window |
| Automatic bucket return positioner | Guard for front lights |
| | Guard for rear lights |
| Automatic bucket return positioner incl. lift height limitation | |
| Extended loader frame (+650 mm/+1250 mm) | |
| Further optional equipment available on request | |

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