


# ATLAS


SINCE 1919


**POWERFUL.**

**OPTIMISED.**

**COMFORTABLE.**

 9.2 t

 75 kW (101 HP)

 1.5 - 2.6 m<sup>3</sup>



## **WHEEL LOADER L160**

[WWW.ATLASGMBH.COM](http://WWW.ATLASGMBH.COM)

# TECHNICAL SPECIFICATION L160

## Technical specifications

### ENGINE

Net power rating at 2200 rpm (ISO 9249) ..... ..... 75kW / 2200min <sup>-1</sup>	Number of cylinders .....4	Battery .....2 x 12 V / 77 Ah / 760 A
Make / model .....Cummins QSF 3.8 T4 Final	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.....415 Nm / 1500 min <sup>-1</sup>		

### HYDRAULIC SYSTEM

• Max. flow ..... 99 l/min	• Load-sensing pump variable displacement pump for working hydraulic	• 3 <sup>rd</sup> Hydraulic loop as standard
• Max. operating pressure ..... 310 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 through one joystick

### LOADING EQUIPMENT

• Combined P+Z Kinematic	• Lifting ..... 6.8 s	• Standard bucket for general purpose 1.6 m <sup>3</sup> with material density 1.8 kg/dm <sup>3</sup>
• 2x Lifting cylinders	• Lowering..... 3.6 s	• Lift capacity at ground level (ISO 14397-2) ..... 85.5 kN*
• 1x Bucket cylinder	• Dumping ..... 2.5 s	• Breakout force at bucket edge (ISO 14397-2) with quick-attachment.... 83 kN*
• Parallel lifting due to combined kinematic	• Total cycle time ..... 12.9 s	• Breakout force at bucket edge (ISO 14397-2) with direct mounted..... 86 kN*

\* with standard bucket

### DRIVELINE

• Two speed gear box	• One variable displacement motors driven by a variable displacement pump	• Multi-disc brakes on both axels, with separate circles
• Suction - Return filter	• Tractive effort ..... 63 kN at 0 km/h	• Drive mode I Fast/Slow ..... 0-6 / 0-20 km/h
• Close loop system	• Parking brake on rear axle	• Fast drive mode II Fast/Slow .... 0-12 / 0-40 km/h
• Traveling using inch pedal		

### STEERING

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

### AXLES

• Front rigid axle	• 45% self differential lock	• Planetary gear set in wheel hub
• Read oscillation axle	• Oscillation angle..... ± 12°	• Flange mass.....1790 mm

### CAB

• ROPS tested ISO 3471	• 2 x doors with 180 aperture angle	• Cushion adjustable driver seat
• FOPS tested ISO 2449	• 2 x front and read lights on the roof	<b>SOUND LEVELS:</b>
• A/C and heating unit	• Electrical front and read windshield wipers	• ISO 6396 (L <sub>p</sub> A) in driver's cab.....75 dB (A)
• Ergonomical design	• Combi-instrument with CAN network	• 2000/14 EG (L <sub>w</sub> A) ambience level.....103 dB (A)

### FILL CAPACITIES

• Fuel tank .....135 l	• AdBlue® .....32 l	• Axles middle hub, each axle.....15.7 l
• Cooling system.....30 l	• Hydraulic oil total .....95 l	• Axle wheel hub, each axle.....1.7 l
• Air Conditioner.....900 g	• Hydraulic oil tank .....86 l	• Gear box .....3.4 l
• Engine oil.....15 l		

### TIRES

• 15.5R25 EM60 12PR Mitas..... Standard	• 15.5R25 XHA Michelin	• 405/70 R24 SPT9 Dunlop
<b>OPTION:</b>	• 17.5R25 XHA Michelin	• 455/70 R24 SPT9 TL Dunlop
• 15.5R25 GP-2B L2 Goodyear	• 17.5R25 VJTZ Bridgestone	• More available on request

# WORKING EQUIPMENT L160

## ADDITIONAL STANDARD EQUIPMENT

- Air Conditioner
- Prepared for Radio
- Steering column height and tilt adjustable
- Operating data display screen
- SCR and DOC Catalysators
- Reversible Fan
- Proportional joystick for 3<sup>rd</sup> hydraulic circle
- Main battery switch operating in cab

## OPTIONAL EQUIPMENT

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

## FORK LIFT ATTACHMENT

- Operating load over the total lift and steering range.....3200 (3500\*) kg
- Operating load in transport position, approx. 300 mm above ground level, total steering range..... 3500\* kg
- Width of fork carrier..... 1900 mm
- Length pallet forks (140x50 mm)..... 1120 mm
- Stability factor..... 1.25
- Operating load determined on level ground = 80 % of tipping load, articulated

## BUCKET TYPE

	QA D	Volume	Material density	Teeth Cutting edge	Fill factor	Dumping height (A)
General-purpose bucket	QA	1.50 m <sup>3</sup>	1.8 t/m <sup>3</sup>	Teeth	100 %	2890 mm
General-purpose bucket	QA	1.50 m <sup>3</sup>	1.8 t/m <sup>3</sup>	Cutting edge	100 %	2850 mm
General-purpose bucket	D	1.60 m <sup>3</sup>	1.8 t/m <sup>3</sup>	Teeth	100 %	2930 mm
General-purpose bucket	D	1.60 m <sup>3</sup>	1.8 t/m <sup>3</sup>	Cutting edge	100 %	2890 mm
Earth bucket	QA	1.70 m <sup>3</sup>	1.6 t/m <sup>3</sup>		100 %	2890 mm
Earth bucket	QA	1.70 m <sup>3</sup>	1.6 t/m <sup>3</sup>	Cutting edge	100 %	2790 mm
Earth bucket	D	1.80 m <sup>3</sup>	1.6 t/m <sup>3</sup>		100 %	2800 mm
Earth bucket	D	1.80 m <sup>3</sup>	1.6 t/m <sup>3</sup>	Cutting edge	100%	2760 mm
Multi-purpose bucket	QA	1.25 m <sup>3</sup>	1.6 t/m <sup>3</sup>		100 %	2890 mm
Multi-purpose bucket	QA	1.25 m <sup>3</sup>	1.6 t/m <sup>3</sup>	Cutting edge	100 %	2850 mm
Light-material bucket	QA	2.20 m <sup>3</sup>	1.2 t/m <sup>3</sup>	Cutting edge	100 %	2740 mm
Light-material bucket	QA	2.60 m <sup>3</sup>	0.8 t/m <sup>3</sup>	Cutting edge	100 %	2710 mm
High-tip bucket	QA	1.50 m <sup>3</sup>	1.2 t/m <sup>3</sup>		100 %	4360 mm

## EXAMPLES OF MATERIAL DENSITY (t/m<sup>3</sup>)

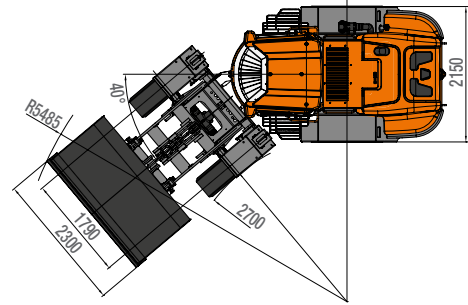
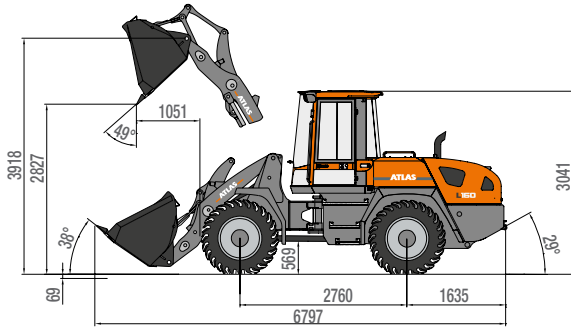
<b>Construction</b>	sediment.....	2.1	paper.....	0.9	
concrete.....	1.9	crushed stone.....	1.5	slag.....	1.0
soil (dry).....	1.5	de-icing salt.....	1.3	slag concrete.....	2.7
soil (watery).....	2.0	clay.....	1.6	<b>Landscaping, Agriculture</b>	
rock (fill).....	2.4	cement.....	1.7	agricultural crop.....	0.7
granite.....	1.8	clinker (stacked).....	1.8	grain.....	0.6
limestone.....	1.6	<b>Industry</b>		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

# DIMENSIONS L160

## Dimensions

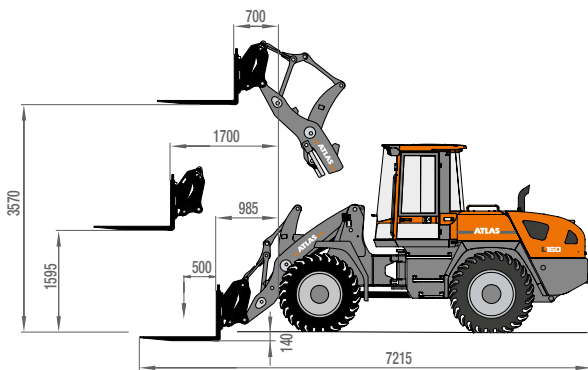
### GENERAL-PURPOSE BUCKET

Capacity in compliance with ISO 7546: 1.60 m<sup>3</sup>  
Max. density of material: 1.8 t/m<sup>3</sup>



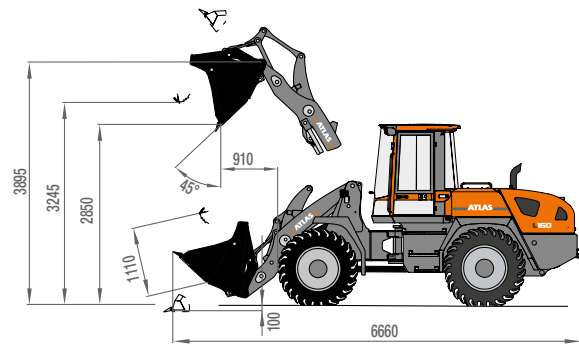
### FORK LIFT ATTACHMENT

Operating load over total lift range: 2700 (3000\*) kg  
700 Operating load in transport position: 3500 kg  
\*With rear axle weights



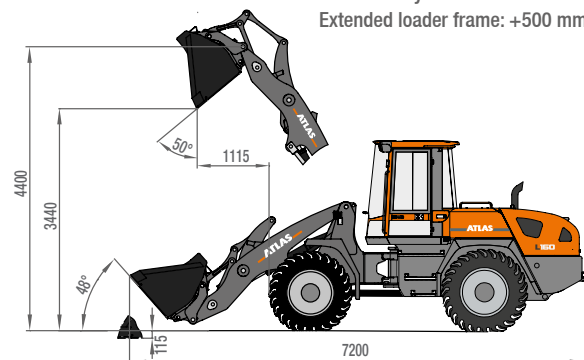
### MULTI-PURPOSE BUCKET

Capacity in compliance with ISO 7546: 1.25 m<sup>3</sup>  
Max. density of material: 1.6 t/m<sup>3</sup>



### EXTENDED LOADER FRAME

Capacity in compliance with ISO 7546: 1.50m<sup>3</sup>  
Max. density of material: 1.2 t/m<sup>3</sup>  
Extended loader frame: +500 mm



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