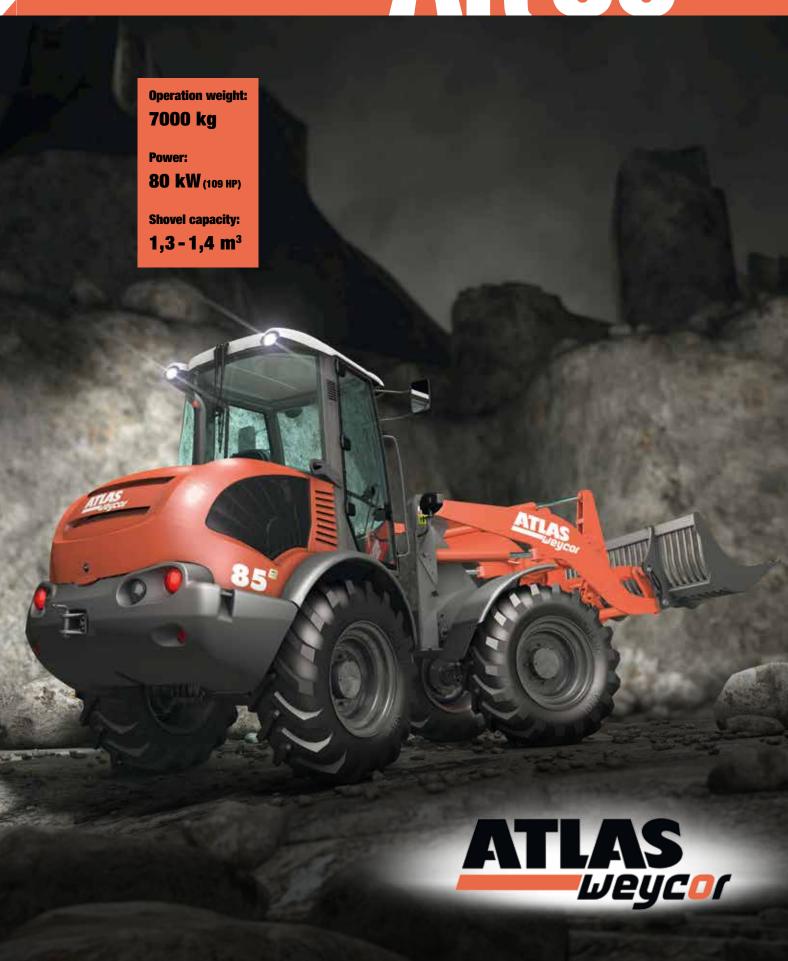
AR85



AR 85



Small e. Big effect.



ATLAS Weyhausen wheel loaders are more than the sum of their parts. They reflect true passion, a fascination with technology and 'made in Germany' quality.

It's thanks to the innovative spirit of our people, their dedication to detail and their passion for powerful engine technology that this new **e-generation of wheel loaders** has been developed.

The small "e" stands for

- emission reduction: even lower emissions than statutory requirements*
- efficient: higher power, lower consumption
- evolutionary: advanced designs that are optimised down to the smallest detail

ATLAS WEYCOR: POWERFUL.





Latest kinematics technology

The proven and tested ATLAS kinematics with its exceptional tear-out force and excellent lifting heights. The tapered loading rocker makes sure you can always keep an eye on the attachment.

Deutz engine technology

TCD 3 6 L4

Newly-designed, water-cooled 4-cylinder inline engine with cooled, external exhaust gas recirculation with and without turbocharging and optionally with and without charge air cooling.

Use of DVERT® oxidation catalyst (DOC) enables maintenance-free operation under all application and ambient conditions.

The powerful Common Rail injection system and highly-fficient combustion process with cooled external exhaust gas recirculation ensure optimum engine performance at low fuel consumption and exhaust emissions.

Best cold starting performance even under extreme conditions. The engines meet the requirements of the EU Stage IIIB and US EPA Tier 4 interim with DVERT® oxidation catalyst.



Hydraulic quick-change attachment

By allowing you to change the wheel loader's attachments in a few seconds, it turns the vehicle into an all-rounder.





Articulated pendulum joint

Provides for excellent maneuverability and crosscountry mobility. Even on challenging terrain, the low center of gravity ensures exceptional stability.

PRECISE. RELIABLE.



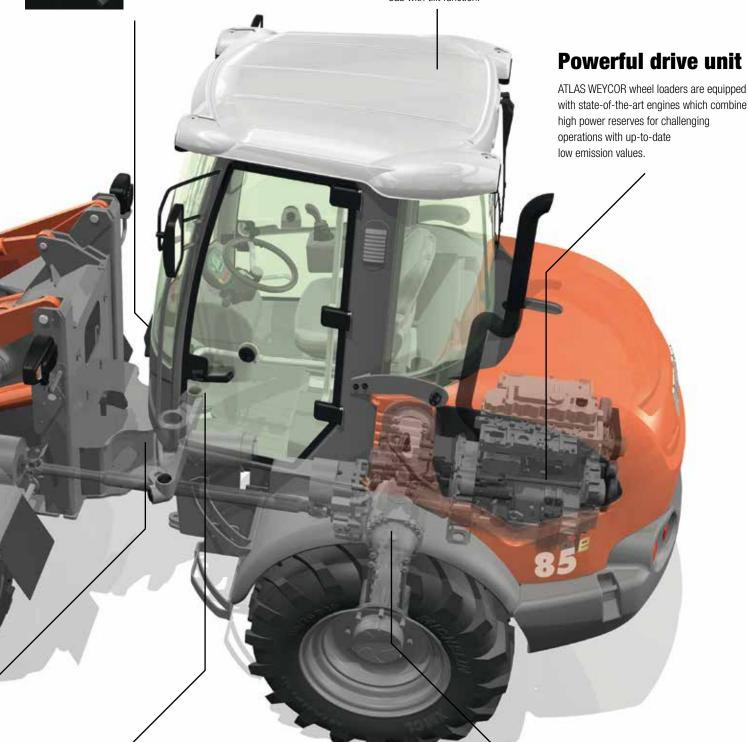
Easy maintenance

Low-maintenance and quick, easy servicing is achieved by central, consolidated, easy-to-reach service points.

Comfortable cabin

In addition to the excellent circumferential visibility in the wheel loader, its clearly arranged controls and its ergonomic design.

Cab with tilit function.





Separate inching pedal.

Less wear & tear and fuel consumption: In contrast to the conventional combined brake/inching pedal, with the separate inching pedal, the risk of inadvertently activating the main brake while you drive is eliminated.



Negative brake

Serves to maintain a stable position while the wheel loader is driven on slopes with the brake or inching function activated. All four wheels are automatically blocked as soon as the engine is stopped.

AR 85

TECHNICAL DATA

Engine

 Make:
 TCD 3.6 L4

 Type:
 water cooled

 Power***:
 set to 80 kW (109 HP)

 at 2200 min⁻¹
 430 Nm at 1600 min⁻¹

 Stroke:
 3620 cm³

 Cylinders:
 4 in line

Electrical System

Operating voltage _	12 V
Battery	12 V/100 Ah
Alternator	14 V/95 A
Starter	12 V/3.2 kW

Drive

- Output—regulated hydrostatic drive with pressure cut off and closed circuit acting on all 4 wheels
- Speed with standard tires:
 Operating speed range 0–6,5 km/h
 Road speed range 0–20 km/h
 Optional high speed 40 km/h (upon request)
- 1st and 2nd hydraulic gear can be engaged under load, forward/backward travel also
- Forward/backward travel, speed ranges and off-position operational via ATLAS joystick
- Drive operated by accelerator and separate inching pedal for best distribution of the hydraulic power for thrust and lifting forces

Brakes

Standard brake: Multi-disc brake in oil bath acting on all 4 wheels. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.

Parking brake: Parking brake as spring-loaded brake acting on all 4 wheels. In case of standstill of engine the spring-loaded brake is automatically re-activated.

Axles

Rigid axles with planetary reduction gears in wheel hubs, connecting electrically 100%- differential lock in front and rear axle.

Steering

- Fully hydraulic center pivot steering
- Front and rear wheels follow the same track
- Steering angle of 40° to each side, ±12° angular movement at rear of vehicle
- Operating pressure of steering hydraulics 175 bar
- Emergency steering function

Tires

Standard: 405/70 R24 EM -

Construction machine tires for clay, sand, gravel, asphalt, roads, gardening and landscaping

Special tires: 460/70 R24 -

Construction machine tires for clay, sand, gravel, fields and greenland, fortified roads

More special tires upon request

sand (watery)

Hydraulic system

- Gear pump for loading and steering hydraulics
- Priority valve favoring steering hydraulics
- · Lowering brake dependent of load
- Two lifting and tipping cylinders each
- 3rd hydraulic section serial
- Loading hydraulic hydraulically pre-activated by ATLAS joystick, including float position
- Operating pressure 235 bar, Delivery of pump 86 l/min

Loading equipment

- Powerful and solid Z- kinematics with high tear out force
- Hydraulic quick change device
- Activation of all functions by ATLAS joystick
- Parallel movement while using pallet forks
- Automatic shovel return to excavation position
- Locking device acc. to German StVZO for road travel

Lifting 5,1 s Lowering 3,6 s Tipping 1,2 s

Fuel/oil capacities

Diesel: 120 I

Hydraulic oil: 75 l Engine oil: 9,5 l Front axle: 4,5 l Rear axle: 4,2 l Gear oil: 2,5 l Cooling liquid: 16 l

Specific gravity for material handling weight (t/m³)

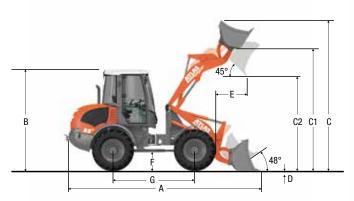
CONSTRUCTION concrete 1.9 sandstone soil (dry) shale 22 1.5 soil (watery) 2.0 sediment 2.1 rock (fill) 2,4 crushed stone 1,5 granite_ 1,8 de-icing salt_ 1,3 limestone 1,6 1.6 clay gravel (dry) cement 1.9 1.7 gravel (watery) 2.1 clinker (stacked) 1,8 loam plaster 2,2 19 sand (drv)

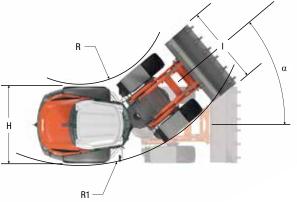
21

INDUSTRY	
ember	0,7
brown coal briquette	0,8
ferrous product	7,8
iron ore	2,3
cullet	1,9
gas coke	0,4
timber	0,8
mineral coal	1,2
paper	0,9
slag	1,0
slag concrete	27

LANDSCAPING,	
AGRICULTURE	4
agricultural crop	_0,7
grain	_0,6
hay	_0,3
potash	_1,1
compost	_1,0
flour	_0,5
clay (watery)	_2,3
phosphate fertilizer	_2,2
turf (watery)	1,1
turf (dry)	_0,4
mineral fertiliser	_1,0
	197-50

Technical data AR 85 e with standard shovel





5665 mm 2820 mm В С 4431 mm 3500 mm C1 C2 2665 mm D 100 mm Ε 880 mm F 510 mm G 2280 mm Н 2040 mm 2250 mm Ī R 2075 mm 4110 mm R1 40°

STANDARD EQUIPMENT

Inclusive

- Rear driving mirrors, foldable
- · Heatable rear screen
- Comfortable access to cab from both side
- Activation of all functions by ATLAS joystick
- Control lights for speed range, forward/backward travel
- Lights acc. to German StVZO for road travel
- Individually adjustable driver's seat with adjustable right arm rest
- Engine water heating with heat exchange and 4-stage fan
- Front windscreen ventilation, variable output
- Sound absorbing ROPS cab
- · Windscreen wipe and wash unit in front and rear
- Sun visor, coat hook, ceiling lamp, stow facility
- Adjustable steering column
- Heat protection glazing with largetinted screens
- Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake and air filter
- Central dashboard with indicators for preheating, engine temperature, fuel, working hour meter

OPTIONS

Technical options

- 4th hydraulic section front or rear
- Stability damping system
- Slow drive inching pedal
- High speed version 40 km/h
- Extended lifting frame
- Preparation for Hydraulic hammer, Hand throttle device
- Load check valve for lifting and working cylinders
- FOPS-roof
- Trailer coupling
- Main battery switch
- Corrosion prevention against salt
- Special paintings and oils
- Joystick with integrated proportional steering for 3rd section (only with ADS)
- ATLAS diagnostic system (ADS) for monitoring engine parameters with integrated electronic anti-theft device
- Warning beacon
- Anti-theft-device with code stick
- Heatable and air cushioned seats
- Auxiliary heating, comfort cab, canopy cab
- Radio
- Doors with sliding windows, left and right side

More options upon request

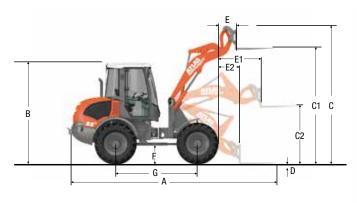
OPERATING DATA

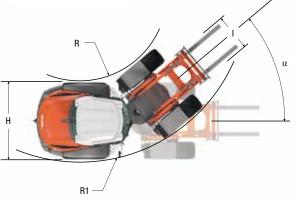
Shovel capacity acc. to SAE:	1,3-1,4 m³ 1640 mm	
Turning radius (outer shovel edge): Tear out force: Torque: Tipping load, straight: Tipping load, articulated: Lifting capacity at ground level Service weight:	6800 daN 5850 daN 5968 kg 5294 kg	
Differing data for use of pallet		
(500 mm distance to center of gravity)*		
Static tipping load, straight and articulated:	3925 kg	
Lifting capacity:	5100 daN	
Payload 80% even surface**:		
Payload 60% uneven surface**:	2355 kg	
Sound level Average acoustic power-level L _w A ⁽¹⁾ : Guaranteed acoustic	_98,1 dB(A)	
	99,0 dB(A)	
Sound pressure level L _p A ⁽³⁾ :	76,0 dB(A)	
Specific vibration-data Hand-/arm-/body		
-vibration(⁽⁴⁾ : <	< 2,5 / 0,5 m/s²	

- * Travel with load only permitted close to the ground.
- ** According to ISO 8313 and EN 474-3.
- *** According to ISO 14396, EU RL97/68/EC.
- (1) According to 2000/14/EG & appendixes.
- (2) According to 2000/14/EG & appendixes.(3) According to ISO 6396.
- (4) According to ISO 8041.

Diagram for shovel selection Piled density of raw material (t/m3) 2.2 2,0 1,8 1,6 1,4 1,2 1,0 0,8 1,1 1,2 1,3 1,4 1,5 1.6 Shovel capacity (m³)

Technical data AR 85 e with pallet forks





5830 mm 2810 mm 3790 mm 3335 mm C1 1615 mm D 90 mm Ε 440 mm 1160 mm E2 560 mm 510 mm 2280 mm 2040 mm 1080 mm 2075 mm

> 4110 mm 40°

Product range



AR 30

Operation weight 2150 kg

Power 24,6 kW/33,5 HP

Shovel capacity $0,32 \text{ m}^3$



AR 35 / AR 35 Super

Operation weight 2500 kg/2875 kg

Power 24,6 kW/33,5 HP 29,4 kW/40 HP

Shovel capacity 0,34 m³/0,40 m³



ΔR 40

Operation weight 3300 kg

Power 29,4 kW/40 HP

Shovel capacity 0,50 m³



AR 60

Operation weight 4300 kg/4650 kg

Power 36,5 kW/49,7 HP

Shovel capacity 0,80 m³



AR 65 e

Operation weight 5150 kg

Power 54 kW/73 HP

Shovel capacity 0,8 - 1,00 m³

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AR 75 e

Operation weight 5760 kg

Power 54 kW/73 HP

Shovel capacity 1,00 m³



AR 75 e S

Operation weight 6280 kg

Power 54 kW/73 HP

Shovel capacity 0,80 m³



AR 75 e T

Operation weight 6000 kg

Power 54 kW/73 HP

Shovel capacity 1,00 m³



AR 80 e

Operation weight $\,6220~kg$

Power 70 kW/95 HP

Shovel capacity 1,00 - 1,20 m³



AR 85 e

Operation weight 7000 kg

Power 80 kW/109 HP

Shovel capacity 1,30 - 1,40 m³



AR 95 e / AR 95 e Super

Operation weight 7900 kg/8200 kg

Power 85 kW/115,5 HP

95 kW/129 HP

Shovel capacity 1,40 m³/1,60 m³



AR 105 e

Operation weight 9450 kg

Power 105 kW/143 HP

Shovel capacity 1,60 - 1,80 m³

Compliance with the new statutory limits for exhaust emissions is one thing. Deriving tangible benefits for our customers is another. We are proud to have incorporated both in the development of the new generation of wheel loaders.

Higher power - lower consumption plus a series of other innovative features that make a genuinely positive difference in a construction site environment. All the features inside are now represented on the outside by a small "e" and the new product name "ATLAS weycor".



^{*}ATLAS WEYCOR is an ATLAS WEYHAUSEN GMBH brand