AR4305

OPERATING WEIGHT 6,280 - 6,600 kg ENGINE OUTPUT **54 kW (72.5 HP)**

A+2

2

SHOVEL CAPACITY **0.8 - 1.6 m**³





Operating data

Shovel capacity	0.8 m ³
Track width	1,520 mm
Turning radius (outer shovel edge)	4,226 mm
Tear out force	4,000 daN
Torque	4,312 daN
Tipping load, straight	3,800 kg
Tipping load, articulated	3,355 kg
Lifting capacity at ground level	3,900 daN
Operating weight	6,280 kg

Specifications

Differing data for use of pallet forks (500 mm distance to center of gravity)*	
Static tipping load, straight and articulated	2,738 kg
Lifting capacity	2,710 daN
Payload 80% even surface**	2,190 kg
Payload 60% uneven surface***	1,643 kg
Sound level	
Average sound power level $L_{W}A^{(1)}$	99.9 dB(A)
Guaranteed sound power level $L_{\!W}\!A^{\scriptscriptstyle(2)}$	101.0 dB(A)
Sound pressure level $L_p A^{(3)}$	78.0 dB(A)
Vibration values hand/arm/whole body vibration ⁽⁴⁾	< 2.5/0.5 m/s ²

* 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.

FIRST IMPRESSIONS COUNT!

weycor 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 generation of wheel loaders has been developed.



KW (72.5 HP) ENGINE OUTPUT



Important Information on Shovel Size / Shovel Contents:

The details contained in this brochure relate solely to the weycor shovels referred to in the respective data sheet, with the associated technical parameters and configurations on which the respective CE approval for the device is based. The volume of the specific usable shovel depends on the material-specific bulk weights (t/m³) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m³. Regardless of this, neither the wheel loader's permissible working weight nor its permissible tipping loads may be exceeded. If the wheel loader is equipped with shovels that are not manufactured and licenced by Atlas Weyhausen GmbH, the buyer and / or the operator is solely responsible for compliance with the relevant statutory regulations and licensing requirements - particularly those relating to road-traffic and road-traffic-licensing law.

* The operating weight may vary with different equipment. All technical information refers exclusively to the standard device.

Comfortable cabin

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

DETAILS THAT MAKE AN IMPRESSION

It is demanding to meet the new legal requirements for exhaust emissions. The challenge is to create also tangible benefits for our customers. We are proud to have achieved both in the development of the current wheel loader generation: more power - less consumption, plus a number of others innovations that really make a difference on tough construction sites.

Latest kinematics technology

The proven and tested weycor kinematics with its exceptional tear-out force and excellent lifting heights.

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.

Easy maintenance

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

Articulated joint

The combination of pendulum joint and the rear oscillating axle provides for excellent maneuverability and crosscountry mobility. Even on challenging terrain, the low center of gravity ensures exceptional stability.

Inching Pedal

As the only manufacturer, our wheel loaders have a separate inching pedal as standard. This prevents the possibility of moving against the operating brake, in contrast to the combination of a brake/inch pedal. A generously proportioned inching range facilitates precise distribution of shearing and lifting forces. The result: less wear and lower fuel consumption.

Powerful drive unit

weycor wheel loaders are equipped with state-of-the-art engines which combine high power reserves for challenging operations with up-to-date low emission values.

Spring-loaded brake

The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multipledisc brake) which holds the wheel loader securely in position on a slope when the brake or inch function is activated and automatically locks all four wheels when the engine is at a standstill. The multiple-disc brake runs in the oil bath and is particularly low-maintenance and low-wearing as a result.

INNOVATIVE ENGINE TECHNOLOGY

TD 2.9 L4 – intelligent efficient:

We have been convinced of the quality of Deutz engines for over 40 years. Our cooperation with Deutz also offers numerous benefits for the AR 480S: such as the electronic engine control with intelligent connection to the drive management. This ensures the best engine performance with low fuel consumption.

Mighty performance

54 kW at a maximum of 2,200 rpm

Compliance with emission standards EU Stage 5 - DOC + DPF from 2019







Deutz engine technology: TD 2.9 L4

Water-cooled 4-cylinder inline engine with cooled, external exhaust gas recirculation with turbocharging and with charge air cooling. The powerful Common Rail injection system and highly-efficient combustion process with cooled external exhaust gas recirculation ensure optimum engine performance at low fuel consumption and exhaust emissions.

Through the use of the diesel particulate filter, the engines comply with the EU Stage V emissions standard 2019. For ease of machine installation engine foot print and all major installation interfaces will stay unchanged for Stage V.



TECHNICAL DATA

Engine	
Model	TD 2.9 L4
Design	water cooled
Output	54 kW (72.5 HP) at 2,200 rpm
Max. torque	260 Nm at 1,600 rpm
Cubic capacity	2,924 cm ³
Number of cylinders	4 in line

Electrical system

Operating voltage	12 V
Battery	12 V / 100 Ah
Generator	14 V / 95 A
Starter	12 V / 2,6 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 0-40 km/h

1st and 2nd hydraulic gear can be engaged under load, forward/

backward travel also. Forward/backward travel, speed ranges and off-position operational via weycor 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 springloaded brake acting on all 4 wheels. In case of standstill of engine the spring-loaded brake is automatically reactivated.

Steering

Fully hydraulic center pivot steering and oscillating rear axle with automatic lock during swing-action by hydraulic rams
Front and rear wheels follow the same track
Steering angle of 40° to each side, ±10° angular movement at rear of vehicle
Operating pressure of steering hydraulics 175 bar
Emergency steering function

Axles

Rigid axle front, pendulum rear axle with planetary reduction gears in wheel hubs, electrically connected 100%-differential lock in front and rear axle. On swinging automatic blocking of pendulum axle

Tires (Special tires upon request)

Standard: 16/70 R20 MPT 14 PR – Multi-purpose tires for earth moving machines, with good traction, self-cleaning and firm stability

Hydraulic system

Gear pump for loading and steering hydraulics Priority valve favoring steering hydraulics Lowering brake dependent of load 3rd hydraulic section Loading hydraulic hydraulically pre-activated by weycor joystick, including float position Operating pressure 230 bar, Delivery of pump 62 l/min

Fuel/oil capacities	
Diesel	80 Liter
Hydraulic oil	79 Liter
Engine oil	8 Liter
Front axle	5.1 Liter
Rear axle	5.4 Liter
Gear oil	0.7 Liter
Cooling liquid	13 Liter

Loading equipment

Powerful solid and swingable parallelkinematics, swivelling range
up to 180°Swing cut-off by danger of tyre damageHydraulic quick change deviceActivation of all functions by weycor joystickParallel movement while using pallet forksAutomatic shovel return to excavation positionLocking device acc. to German StVZO for road travelLifting5.6 sLowering4.3 sTipping1.2 s

Equipment – Series

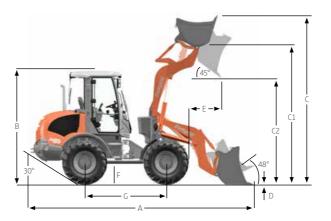
Rear driving mirrors, foldable Heatable rear screen Comfortable access to cab from both sides Joystick with integrated proportional steering for 3rd section or swing-action control weycor diagnostic system Control lights for speed range, forward/backward travel Lights acc. to German StVZO for road travel Individually adjustable driver's seat with adjustable right arm rest 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 Cyclone dust separator with Air filter control

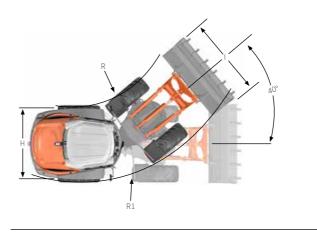
Equipment – Option
Stability damping system
High speed version 40 km/h
Air conditioning
Load check valve
Main battery switch
Corrosion prevention against salt
Special paintings and oils
Trailer coupling
Heatable and air cushioned seats
Auxiliary heating, comfort cab
Extra seat
Radio
Warning beacon
Doors with sliding windows, left and right side
Anti-theft-device with code stick
FOPS-roof
Glass roof arrangeable
Hydraulic start-stop system
Diesel particulate filter

AR 480S

TECHNICAL DATA

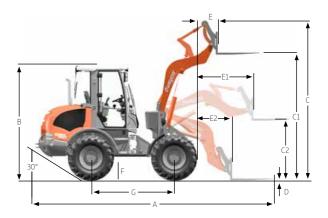
20 mm 16 mm 55 mm 35 mm 5 mm 11 mm mm 0 mm
55 mm 35 mm 5 mm nm mm
35 mm 5 mm nm mm
5 mm nm mm
nm mm
mm
0 mm
) mm
) mm
00 mm
0 mm
0 mm
0 mm
mm
2 mm

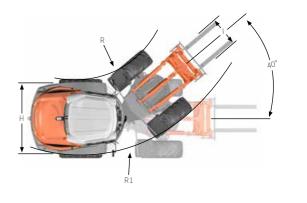




With standard shovel

Specific gravity for material handling weight (t/m ³⁾							
Construction			Industry		Landscaping, Agriculture		
Concrete	1.9	Sand (watery)	2.1	Ember	0.7	Agricultural crop	0.7
Soil (dry)	1.5	Sandstone	2.4	Brown coal briquette	0.8	Grain	0.6
Soil (watery)	2.0	Shale	2.2	Ferrous product	7.8	Hay	0.3
Rock (fill)	2.4	Sediment	2.1	Iron ore	2.3	Potash	1.1
Granite	1.8	Crushed stone	1.5	Cullet	1.9	Compost	1.0
Limestone	1.6	De-icing salt	1.3	Gas coke	0.4	Flour	0.5
Gravel (dry)	1.9	Clay	1.6	Timber	0.8	Clay (watery)	2.3
Gravel (watery)	2.1	Cement	1.7	Mineral coal	1.2	Phosphate fertiliser	2.2
Loam	1.7	Clinker (stacked)	1.8	Paper	0.9	Turf (watery)	1.1
Plaster	2.2			Slag	1.0	Turf (dry)	0.4
Sand (dry)	1.9			Slag concrete	2.7	Mineral fertiliser	1.0





With pallet forks



You can find our current product range and more exciting details at: **www.products.weycor.de** or **www.weycor.de**

weycor is a brand of ATLAS WEYHAUSEN GMBH.

