

# AR 380

OPERATING WEIGHT  
3,500 kg

ENGINE OUTPUT  
37 kW (49,6 HP)

SHOVEL CAPACITY  
0.5 - 0.8 m<sup>3</sup>

**PRELIMINARY  
VERSION**



 **weycor**  
BY ATLAS WEYHAUSEN



## 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.

**3,500\*** KG  
OPERATING WEIGHT

**37** KW (49,6 HP)  
ENGINE OUTPUT

**0.5** M<sup>3</sup>  
SHOVEL CAPACITY

### Operating data

Shovel capacity	<b>0.5 m<sup>3</sup></b>
Track width	<b>1,010 mm</b>
Turning radius (outer shovel edge)	<b>3,490 mm</b>
Tear out force	<b>3,850 daN</b>
Torque	<b>2,650 daN</b>
Tipping load, straight	<b>2,575 kg</b>
Tipping load, articulated	<b>2,252 kg</b>
Lifting capacity at ground level	<b>2,470 daN</b>
Operating weight	<b>3,500 kg</b>

### Specifications

#### Differing data for use of pallet forks (500 mm distance to center of gravity)\*

Static tipping load, straight and articulated	<b>1,712 kg</b>
Lifting capacity	<b>1,369 daN</b>
Payload 80% even surface**	<b>1,370 kg</b>
Payload 60% uneven surface***	<b>1,027 kg</b>

#### Sound level

Average sound power level L <sub>WA</sub> <sup>(1)</sup>	<b>98.2 dB(A)</b>
Guaranteed sound power level L <sub>WA</sub> <sup>(2)</sup>	<b>99.0 dB(A)</b>
Sound pressure level L <sub>pA</sub> <sup>(3)</sup>	<b>82.0 dB(A)</b>
Vibration values hand/arm/whole body vibration <sup>(4)</sup>	<b>&lt; 2.5/0.5 m/s<sup>2</sup></b>

\*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.

### 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/m<sup>3</sup>) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m<sup>3</sup>. 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.

# 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. The tapered loading rocker makes sure you can always keep an eye on the attachment.

## 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

In weycor wheel loaders, we use robust, low-maintenance articulated-swivel joints almost exclusively in conjunction with rigid axes. With an oscillation of  $\pm 12^\circ$  in the rear carriage and an articulation angle of  $40^\circ$ , these provide outstanding cross-country mobility, protect the ground and offer extreme manoeuvrability. With their low centre of gravity, weycor wheel loaders have a high tilt stability even under extreme conditions.

## Easy maintenance

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

## Optional cabin version

In addition to the excellent circumferential visibility in the wheel loader, its clearly arranged controls and its ergonomic design. In the agricultural cab, the steering column is adjustable.

## Powerful drive unit

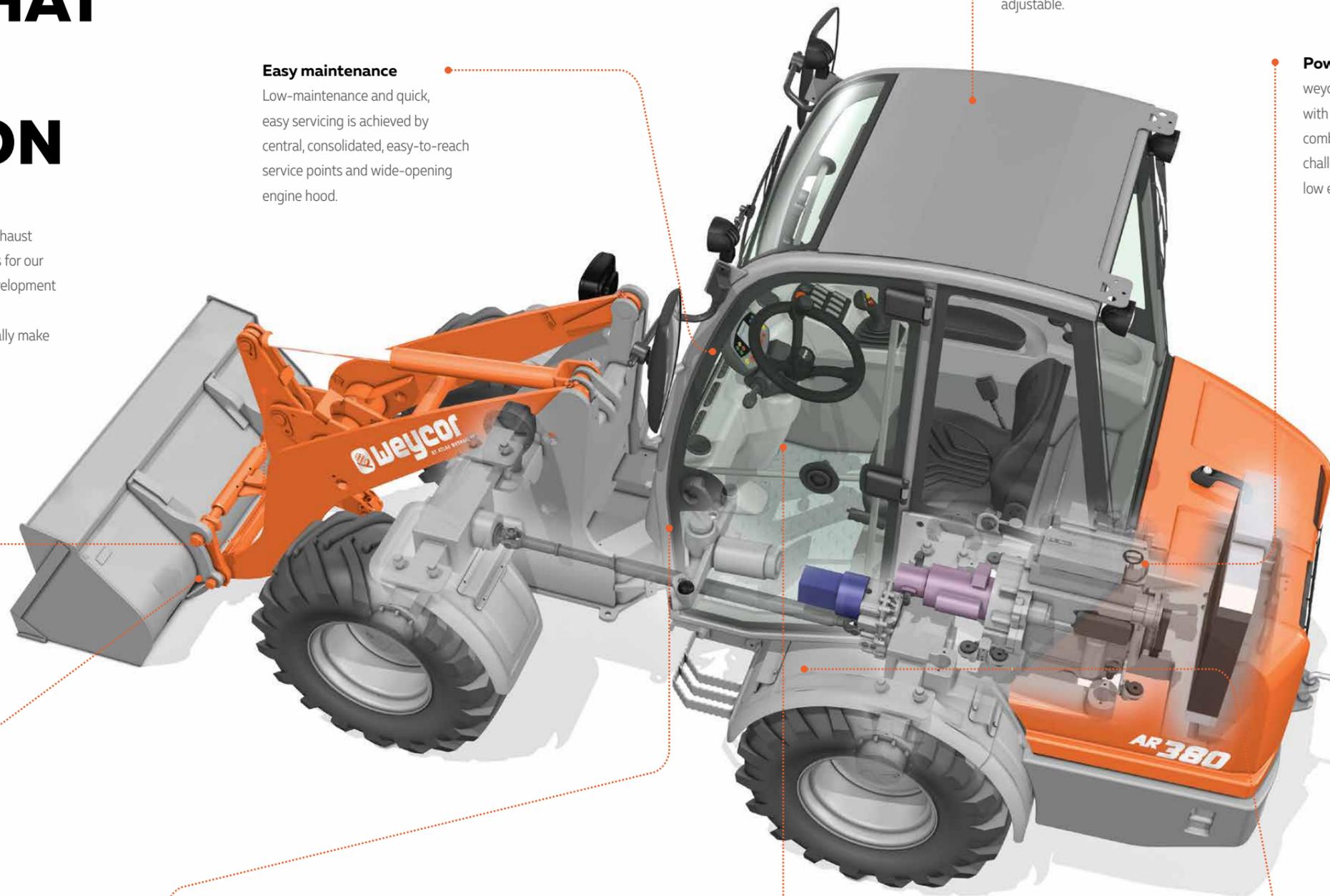
weycor wheel loaders are equipped with state-of-the-art engines which combine high power reserves for challenging operations with up-to-date low emission values.

## 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.

## Low center of gravity

Thanks to their low center of gravity, weycor wheel loaders are secured against tipping, even under extreme circumstances.



# INNOVATIVE ENGINE TECHNOLOGY

## Kubota D1803 CR-T – reliable and durable

The diesel motors offer a long service life due to efficient motor cooling, lower vibrations and the use of optimized components with fine tolerances.



## Mighty performance

37 kW at a maximum of 2,700 rpm

## Compliance with emission standards

EU Stage V, EPA Tier 4

## Clean and quiet performance

The common rail system has optimised combustion and created a longer-lasting, quieter engine with greater fuel efficiency. Through careful selection and control of exhaust aftertreatment components, we are able to offer a clean and powerful engine. Kubota O3 Series engines have been developed step by step to meet the requirements of each EPA stage. This enables us to offer our customers worldwide engines that are certified for the relevant emission regulations.

The D1803-CR-T-E5 engines have been designed to meet the stringent regulations: EPA/CARB Tier4 + EU Stage V.



# TECHNICAL DATA

## Engine

Model	Kubota D1803 CR-T
Design	water-cooled
Output	37 kW (49.6 HP) at 2,700 rpm
Max. torque	150 Nm at 1,600 rpm
Cubic capacity	1,826 cm <sup>3</sup>
Number of cylinders	3 in line

## Electrical system

Operating voltage	12 V
Battery	12 V / 72 Ah
Generator	14 V / 70 A
Starter	12 V / 2,0 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

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:** Drum brake on front axle via cardan acting on all 4 wheels. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.

**Parking brake:** Drum brake via funicular link acting on all 4 wheels with engine switch off.

## Axles

Rigid axles with planetary reduction gears in wheel hubs.  
45%-differential lock in front 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 230 bar

Emergency steering function

## Tires (Special tires upon request)

**Standard:** 15.0/55-17 – Multi-purpose tires for earth moving machines, particularly surface friendly, gardening and landscaping

**Special tires:** 11.5/80-15.3 MPT –Multi-purpose tires for sand and gravel surface, woodland, roads and paths

## Hydraulic system

Gear pump for loading and steering hydraulics

Priority valve favoring steering hydraulics

3rd steering section for loading hydraulics mechanically controlled by weycor joystick, including float position

Operating pressure 280 bar, Delivery of pump 43.2 l/min

## Fuel/oil capacities

Diesel	70 Liter
Hydraulic oil	43 Liter
Engine oil	7 Liter
Front axle	4 Liter
Rear axle	3.5 Liter
Gear oil	0.65 Liter
Cooling liquid	8 Liter

## Loading equipment

Powerful and solid Z-kinematics with high tear out force

Hydraulic quick change device

Activation of all functions by weycor joystick

Parallel movement while using pallet forks

Automatic shovel return to excavation position

Automatic mid position of joystick

Locking device acc. to German StVZO for road travel

**Lifting** 4.0 s

**Lowering** 3.0 s

**Tipping** 1.0 s

## Equipment – Series

weycor canopy cabin with roll-bar protection

Activation of all functions by weycor joystick

Control lights for speed range, forward/backward travel

Lights acc. to German StVZO for road travel

Individually adjustable driver's seat

Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake, air filter

Central dashboard with indicators for preheating, fuel, working hour meter

## Equipment – Option

4th section front or rear

Main battery switch

Special paintings and oils

Cyclone dust separator

Trailer coupling

Left hinged adjustable window, right window to open can be fastened

Hot water heating with heat exchange and 3-stage-fan

Front windscreen ventilation, variable output

Rear driving mirrors, foldable

Sound absorbing ROPS cab

Windscreen wipe and wash unit in front and rear

Sun visor, ceiling lamp, stow facility

Heat protection glazing with targetinted screens

Anti-theft-device with code stick

Radio

Warning beacon

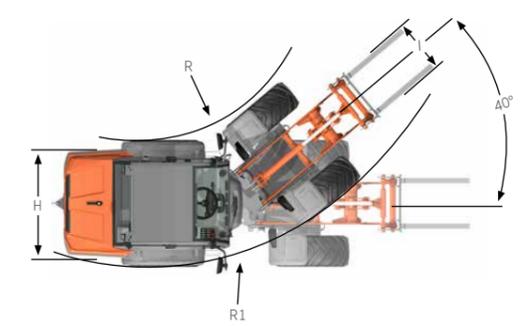
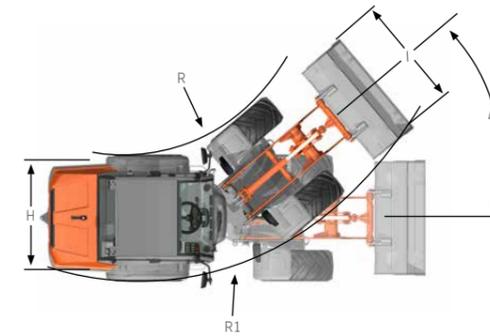
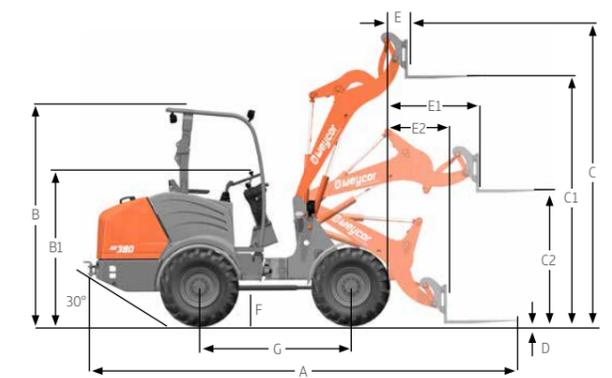
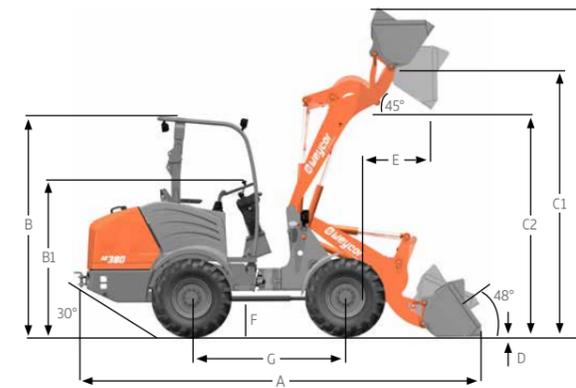
Front and rear working lights

Additional counterweight

# TECHNICAL DATA

	AR 380 with standard shovel	AR 380 with pallet forks
A	4,581 mm	5,073 mm
B	2,456 mm	2,447 mm
B2	2,320 mm*	2,320 mm*
C	3,624 mm	3,323 mm
C1	2,927 mm	2,716 mm
C2	2,363 mm	1,170 mm
D	33 mm	118 mm
E	589 mm	279 mm
E1	-	1,048 mm
E2	-	681 mm
F	391 mm	391 mm
G	1,710 mm	1,710 mm
H	1,500 mm	1,500 mm
I	1,550 mm	1,030 mm
R	1,641 mm	1,641 mm
R1	3,085 mm	3,085 mm

\* Cab Version



With standard shovel

With pallet forks

## Specific gravity for material handling weight (t/m³)

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



You can find our current product range and more exciting details at: [www.weycor.de](http://www.weycor.de)

Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice, errors expected. The technical data refer only to the standard version, illustrations do not necessarily show the standard version of the machine. Not all products are available in all markets.

weycor is a brand of ATLAS WEYHAUSEN GMBH.

ATLAS WEYHAUSEN GMBH · D - 27793 Wildeshausen  
Phone +49 (0) 44 31 - 98 10 · [info@weycor.de](mailto:info@weycor.de) · [www.weycor.de](http://www.weycor.de)

