AR400

OPERATING WEIGHT	ENGINE OUTPUT	SHOVEL CAPACITY
4,550 - 5,000 kg	**46 kW (61.5 HP)**	**0.85 - 1.6 m³**

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.

4.550 / 4.850(1) KG
OPERATING WEIGHT

46(2) KW (61.5 HP)
ENGINE OUTPUT

0.85 M^3
SHOVEL CAPACITY

WEYCOR EST. 1971 TRADITION

Operating data

Shovel capacity	**0.85 m³**
Track width	**1,460 mm**
Turning radius (outer shovel edge)	**4,170 mm**
Tear out force	**5,160 daN**
Torque	**4,000 daN**
Tipping load, straight	**3,167 kg / 3,550 kg**
Tipping load, articulated	**2,769 kg / 3,100 kg**
Lifting capacity at ground level	**4,650 daN**
Operating weight	**4,550 kg / 4,850 kg**

Specifications

Differing data for use of pallet forks(3) **(500 mm distance to center of gravity)**	
Static tipping load, straight and articulated	**2,290 kg / 2,540 kg**
Lifting capacity	**2,845 daN**
Payload 80% even surface(4)	**1,832 kg / 2,032 kg**
Payload 60% uneven surface(4)	**1,374 kg / 1,524 kg**

Sound level	
Average sound power level L_WA(5)	**100.0 dB(A)**
Guaranteed sound power level L_WA(5)	**101.0 dB(A)**
Sound pressure level L_pA(6)	**79.0 dB(A)**
Vibration values hand/arm/whole body vibration(7)	**< 2.5/0.5 m/s²**

(3) Loads must always be moved to the ground. (4) According to ISO 8313 and EN 474-3.
(5) According to 2000/14/EC and Annexes. (6) According to ISO 6396. (7) 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^3) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m^3. 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.

(1) Service weight may vary with different equipment.
(2) Power output ISO 14396, exhaust gas aftertreatment according to EU 2016/1628.
All technical data refer exclusively to the standard unit.

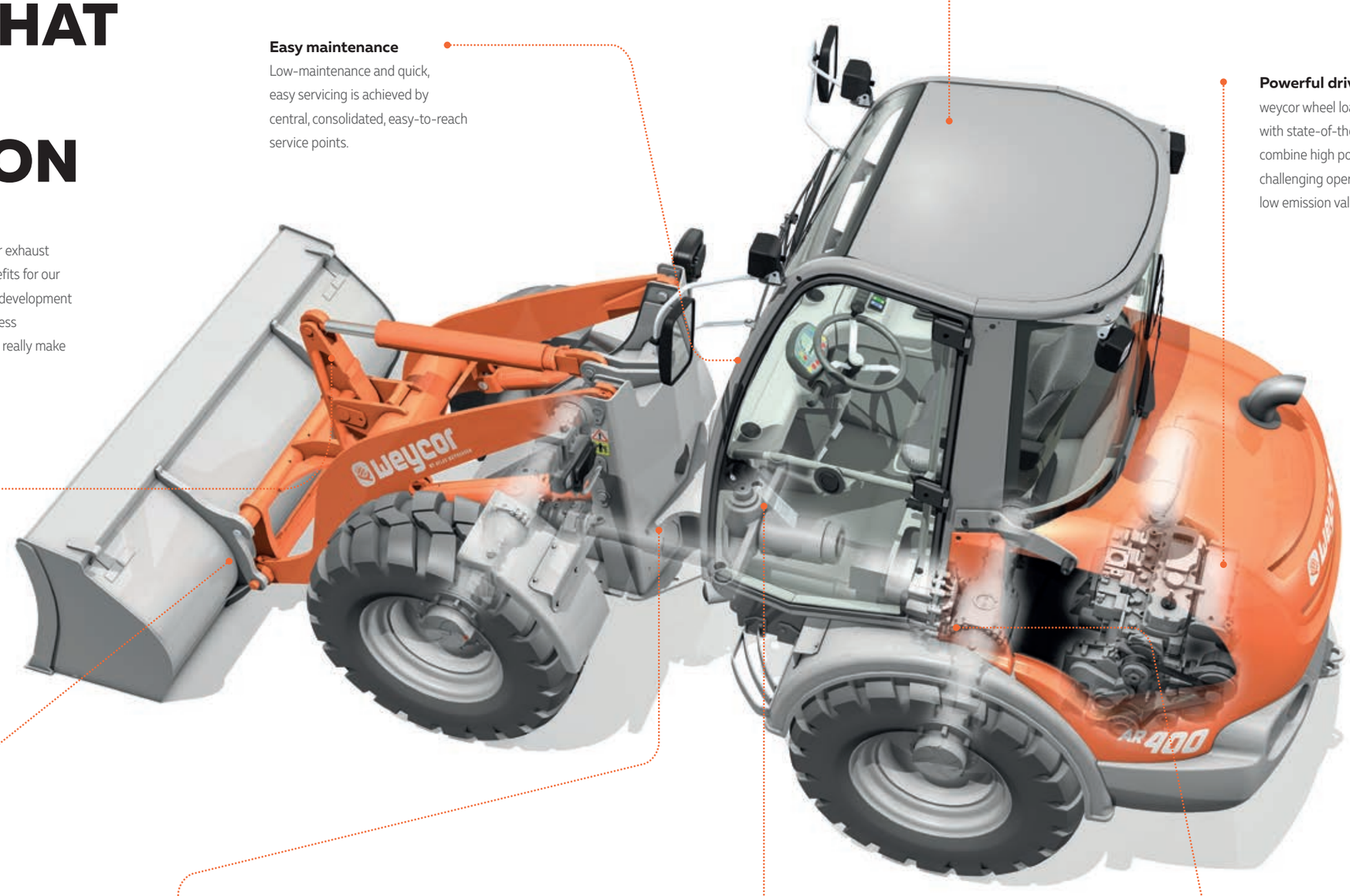
DETAILS THAT MAKE AN IMPRESSION

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.

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

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

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.



State of the art kinematics
weycor Z-kinematics is characterised by high frictional forces and excellent lifting heights. The very good parallel guide provides the optimal prerequisites for using pallet forks. When the hoist is lowered with the shovel, the shovel returns automatically to the digging position. The boom that is tapered towards the top provides the best possible view of the attachment and working area at all times, even under difficult operating conditions.

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 ±12° in the rear carriage and an articulation angle of 40°, 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.

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.

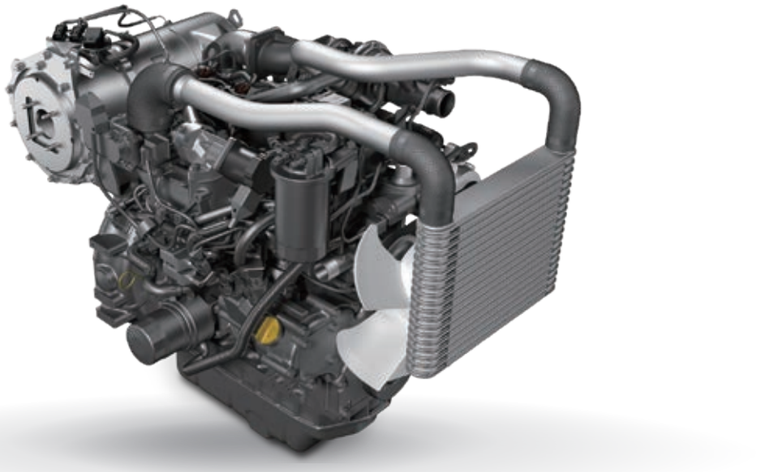
Spring-loaded brake
The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multiple-disc brake) which holds the wheel loader securely in position on a slope when the brake or inch function is activated and automatically locks all four wheels when the engine is 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

4TNV86CHT – intelligent efficient
We are convinced of modern diesel engine technology. These can also be found in the AR 400: for example the electronic motor control with an intelligent connection to the drive management. This ensures the best engine performance with low fuel consumption.

Mighty performance
46 kW at a maximum of 2,300 rpm

Compliance with emission standards
EU Stage 5 - DOC + DPF



Yanmar engine technology: 4TNV86CHT
The Yanmar 4TNV86CHT engine meets the required NOx and PM limits in accordance with the world's most stringent emission regulations of EU Stage 5. The engine is characterized by a compact design and provides high torque at low speed. The intelligent control system optimizes the response characteristics of the engine and reduces fuel consumption and noise emissions. It enables accurate maintenance and electronic diagnostics and can communicate with any CAN interface.

TECHNICAL DATA

Engine	
Model	Yanmar 4TNV86CHT
Design	water-/intercooled
Output	46 kW (61.5 HP) at 2,300 rpm
Max. torque	198 Nm at 1,690 rpm
Cubic capacity	2,091 cm^3
Number of cylinders	4 in line

Electrical system	
Operating voltage	12 V
Battery	12 V / 100 Ah
Generator	12 V / 55 A
Starter	12 V / 2.3 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: Multi-disc brake in oil bath acting on rear axle. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.
Parking brake: Parking brake as springloaded brake acting on rear axle. In case of standstill of engine the spring-loaded brake is automatically reactivated.

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 (Special tires upon request)

Standard: 12.5-18 MPT – Multi-purpose tires for sand and gravel surfaces, woodland, roads and paths

Special tires: 12.5-20 MPT – Multi-purpose tires for sand and gravel surfaces, woodland, roads and paths

405/70 R18 SPT9 – Construction machine tires for clay, sand, gravel, asphalting, roads, gardening and landscaping

400/70 R20 XMCL – Wheel loader tires for clay, sand, gravel, fields and greenland, fortified roads

335/80 R20 EM – Construction machine tires for clay, sand, gravel, asphalting, roads, gardening and landscaping

15.5/55 R18 – Construction machine tires for clay, sand, gravel, broken stone and fortified roads

Hydraulic system

- Gear pump for loading and steering hydraulics
- Priority valve favoring steering hydraulics
- 3rd section
- Loading hydraulic activated by weycor joystick, including float position
- Operating pressure 235 bar, Delivery of pump 57.5 l/min

Fuel/oil capacities	
Diesel	61.5 Liter
Hydraulic oil	41 Liter
Engine oil	7.4 Liter
Front axle	4.6 Liter
Rear axle	4.4 Liter
Gear oil	0.9 Liter
Cooling liquid	8.5 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 center position
- Locking device acc. to German StVZO for road travel

Lifting	**5.0 s**
Lowering	**3.6 s**
Tipping	**1.5 s**

Equipment – Series

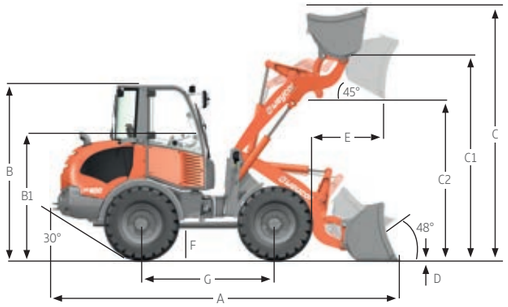
- Rear driving mirrors, foldable
- Heatable rear screen
- Access left side, right window to open can be fastened
- Activation of all functions by weycor joystick
- Control lights for speed range, forward/backward travel
- Lights acc. to German StVZO for road travel
- Individually adjustable driver's seat
- Hot water heating with heat exchange and 3-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
- 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

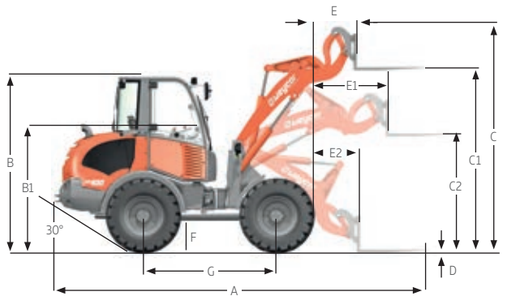
Equipment – Option

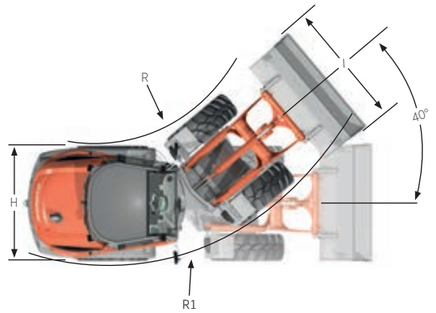
- Main battery switch
- Special paintings and oils
- FOPS roof Level II
- Load check valve for lifting and working cylinders
- Trailer coupling
- Anti-theft-device with code stick
- Load rupture protection for lifting and working cylinders
- Radio
- Warning beacon
- Heavy rear weight
- Extended lifting device, measure C2 +150 mm
- Valve protection for rims

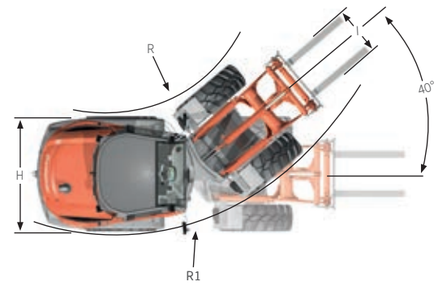
TECHNICAL DATA

	AR 400 with standard shovel	AR 400 with pallet forks
A	5,250 mm	5,540 mm
B	2,475 mm	2,475 mm
B1	1,765 mm	1,765 mm
C	3,930 mm	3,380 mm
C1	3,130 mm	2,925 mm
C2	2,475 mm	1,315 mm
D	85 mm	70 mm
E	670 mm	430 mm
E1	-	1,200 mm
E2	-	750 mm
F	440 mm	440 mm
G	2,000 mm	2,000 mm
H	1,785 mm	1,785 mm
I	1,850 mm	1,030 mm
R	1,840 mm	1,840 mm
R1	3,690 mm	3,690 mm









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

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

weycor is a brand of ATLAS WEYHAUSEN GMBH.

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weycor BY ATLAS WEYHAUSEN

AR 420

OPERATING WEIGHT	ENGINE OUTPUT	SHOVEL CAPACITY
5,300 - 5,600 kg	**55.4 kW (74.3 HP)**	**0.9 - 1.6 m³**

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5,300(1) KG
OPERATING WEIGHT

55.4(2) KW (74.3 HP)
ENGINE OUTPUT

0.9 M^3
SHOVEL CAPACITY

WEYCOR EST. 1971 TRADITION

Operating data

Shovel capacity	**0.9 m³**
Track width	**1,510 mm**
Turning radius (outer shovel edge)	**4,164 mm**
Tear out force	**5,160 daN**
Torque	**4,100 daN**
Tipping load, straight	**4,018 kg**
Tipping load, articulated	**3,548 kg**
Lifting capacity at ground level	**4,590 daN**
Operating weight	**5,300 kg**

Specifications

Differing data for use of pallet forks(3) **(500 mm distance to center of gravity)**	
Static tipping load, straight and articulated	**2,836 kg**
Lifting capacity	**2,269 daN**
Payload 80% even surface(4)	**2,269 kg**
Payload 60% uneven surface(4)	**1,702 kg**

Sound level	
Average sound power level L_WA(5)	**100.0 dB(A)**
Guaranteed sound power level L_WA(5)	**101.0 dB(A)**
Sound pressure level L_pA(6)	**77.0 dB(A)**
Vibration values hand/arm/whole body vibration(7)	**< 2.5/0.5 m/s²**

(3) Loads must always be moved to the ground. (4) According to ISO 8313 and EN 474-3.
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All technical data refer exclusively to the standard unit.

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

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

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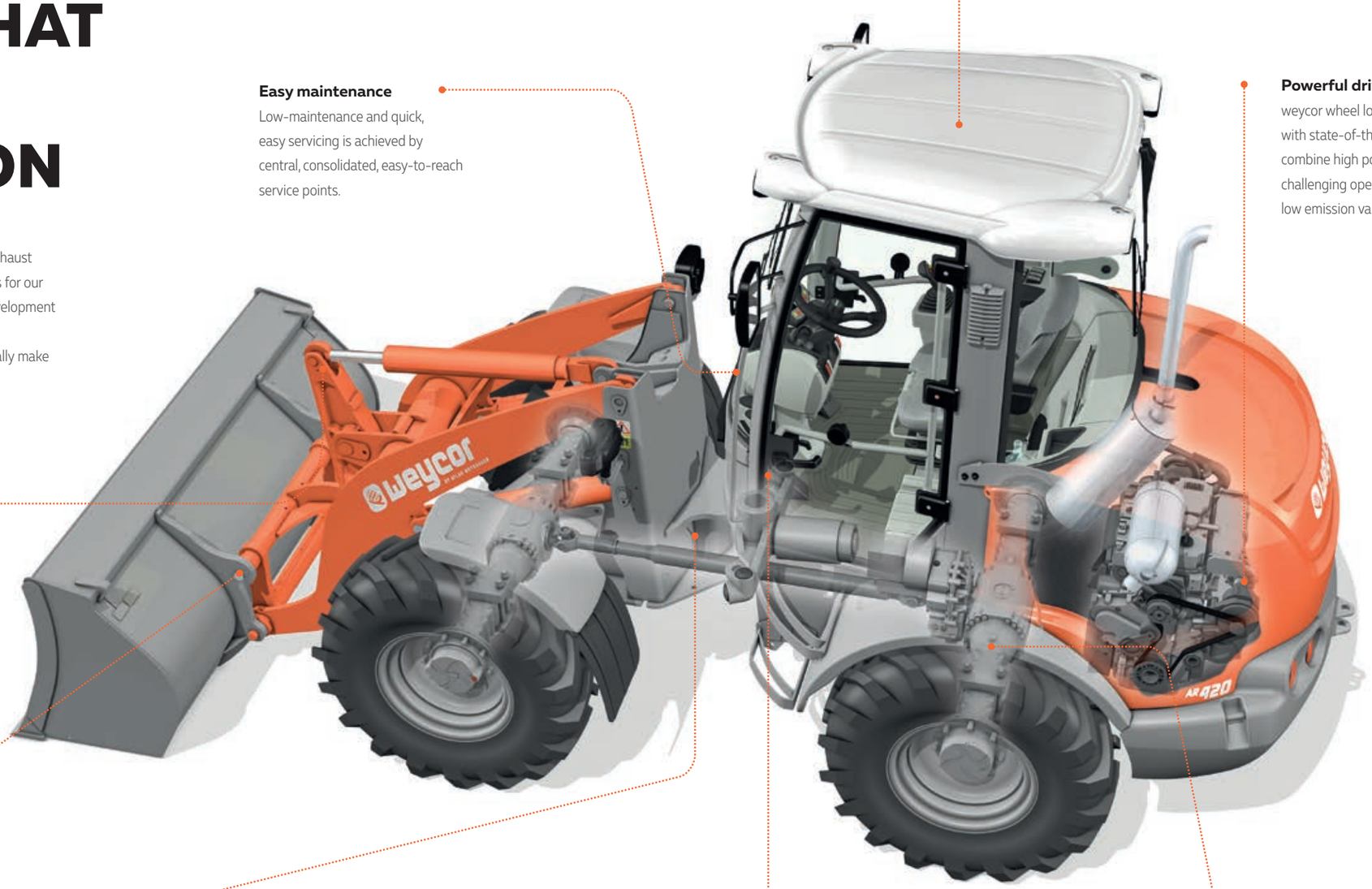

State of the art kinematics
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Hydraulic quick-change attachment
By allowing you to change the wheel loader's attachments in a few seconds, it turns the vehicle into an all-rounder.

Articulated-pendulum joint
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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.

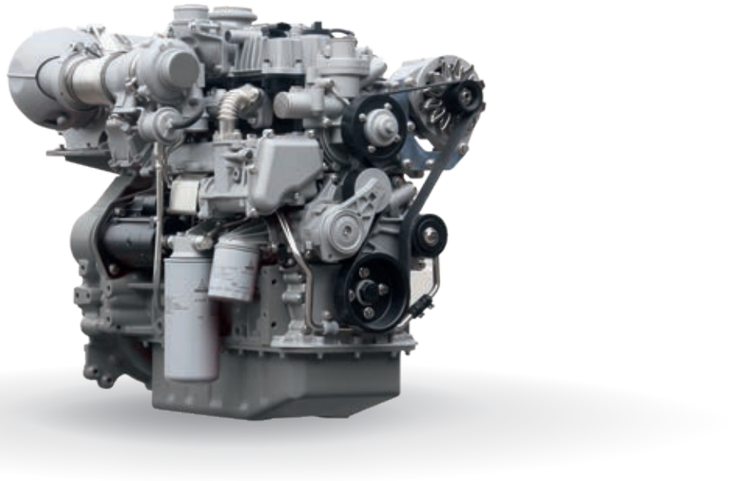
Spring-loaded brake
The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multiple-disc brake) which holds the wheel loader securely in position on a slope when the brake or inch function is activated and automatically locks all four wheels when the engine is 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 420: 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
55.4 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	55.4 kW (74.3 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.

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 (Special tires upon request)

Standard: 12.5-20 MPT – Multi-purpose tires for sand and gravel surfaces, woodland, roads and paths

Special tires: 400/70 R20 XMCL – Wheel loader tires for clay, sand, gravel, fields and greenland, fortified roads

405/70 R20 EM – Construction machine tires for clay, sand, gravel, asphalting, roads, gardening and landscaping

Hydraulic system

Gear pump for loading and steering hydraulics

Priority valve favoring steering hydraulics

Lowering brake dependent of load

3rd hydraulic section serial

Loading hydraulic hydraulically pre-activated by weycor joystick, including float position

Operating pressure 235 bar, Delivery of pump 62 l/min

Option: Loading hydraulics electrically pre-activated

Fuel/oil capacities	
Diesel	100 Liter
Hydraulic oil	76 Liter
Engine oil	8 Liter
Front axle	4.6 Liter
Rear axle	5.1 Liter
Gear oil	0.9 Liter
Cooling liquid	13 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

Locking device acc. to German StVZO for road travel

Lifting	**5.3 s**
Lowering	**3.8 s**
Tipping	**1.7 s**

Equipment – Series

Rear driving mirrors, foldable

Heatable rear screen

Comfortable access to cab from both sides

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 with adjustable right arm rest

Engine oil 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

weycor joystick with knurled wheel and slide switch

Equipment – Option

4th hydraulic section front or rear

Stability damping system

Slow drive inching pedal

High speed version 40 km/h

Extended lifting frame

Load check valve for lifting and working cylinders

Trailer coupling

Main battery switch

Special paintings and oils

Corrosion prevention against salt

weycor 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

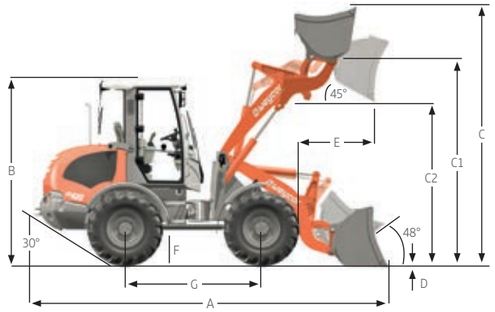
Air conditioning, auxiliary heating

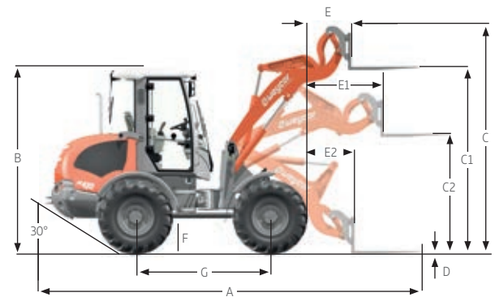
Radio

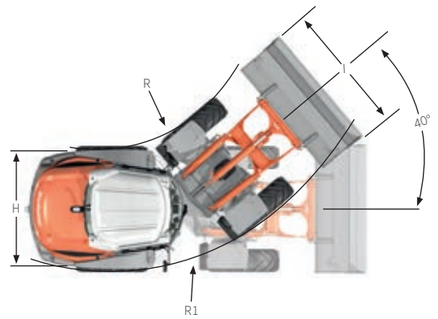
Doors with sliding windows, left and right side

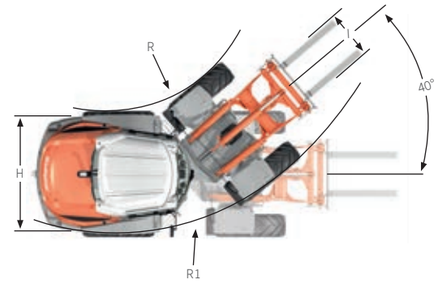
TECHNICAL DATA

	AR 420 with standard shovel	AR 420 with pallet forks
A	5,250 mm	5,550 mm
B	2,689 mm	2,689 mm
C	3,960 mm	3,420 mm
C1	3,176 mm	2,975 mm
C2	2,465 mm	1,365 mm
D	80 mm	60 mm
E	625 mm	460 mm
E1	-	1,195 mm
E2	-	725 mm
F	450 mm	450 mm
G	2,000 mm	2,000 mm
H	1,870 mm	1,870 mm
I	1,970 mm	1,030 mm
R	1,817 mm	1,817 mm
R1	3,715 mm	3,715 mm









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

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

weycor is a brand of ATLAS WEYHAUSEN GMBH.

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weycor BY ATLAS WEYHAUSEN

AR 440

OPERATING WEIGHT	ENGINE OUTPUT	SHOVEL CAPACITY
5,400 - 5,800 kg	**55.4 kW (74.3 HP)**	**1.0 - 1.6 m³**

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.

5,400(1) KG
OPERATING WEIGHT

55.4(2) KW (74.3 HP)
ENGINE OUTPUT

1.0 M^3
SHOVEL CAPACITY

Operating data

Shovel capacity	**1.0 m^3**
Track width	**1,510 mm**
Turning radius (outer shovel edge)	**4,478 mm**
Tear out force	**5,160 daN**
Torque	**4,100 daN**
Tipping load, straight	**4,490 kg**
Tipping load, articulated	**3,990 kg**
Lifting capacity at ground level	**4,590 daN**
Operating weight	**5,400 kg**

Specifications

Differing data for use of pallet forks (3) **(500 mm distance to center of gravity)**	
Static tipping load, straight and articulated	**3,170 kg**
Lifting capacity	**2,536 daN**
Payload 80% even surface(4)	**2,536 kg**
Payload 60% uneven surface(4)	**1,902 kg**

Sound level	
Average sound power level L_WA(5)	**100.0 dB(A)**
Guaranteed sound power level L_WA(5)	**101.0 dB(A)**
Sound pressure level L_pA(6)	**77.0 dB(A)**
Vibration values hand/arm/whole body vibration(7)	**< 2.5/0.5 m/s^2**

(3) Loads must always be moved to the ground. (4) According to ISO 8313 and EN 474-3.
(5) According to 2000/14/EC and Annexes. (6) According to ISO 6396. (7) 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^3) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m^3. 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.

(1) Service weight may vary with different equipment.
(2) Power output ISO 14396, exhaust gas aftertreatment according to EU 2016/1628.
All technical data refer exclusively to the standard unit.

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.

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

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

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.

State of the art kinematics
weycor Z-kinematics is characterised by high frictional forces and excellent lifting heights. The very good parallel guide provides the optimal prerequisites for using pallet forks. When the hoist is lowered with the shovel, the shovel returns automatically to the digging position. The boom that is tapered towards the top provides the best possible view of the attachment and working area at all times, even under difficult operating conditions.

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 ±12° in the rear carriage and an articulation angle of 40°, 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.

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.

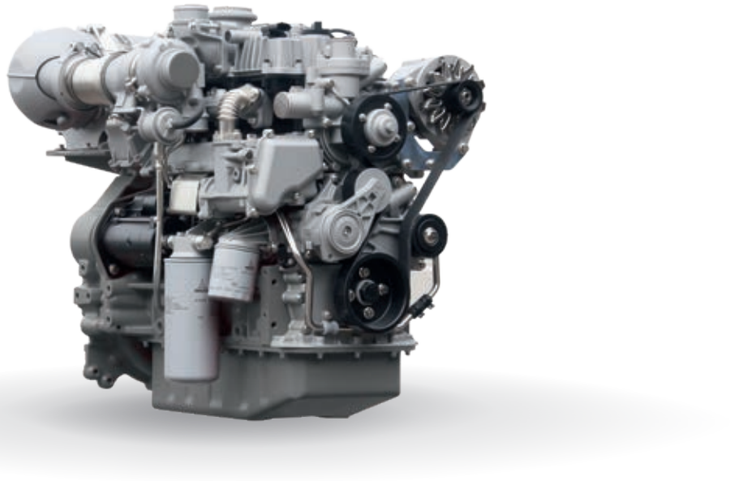
Spring-loaded brake
The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multiple-disc brake) which holds the wheel loader securely in position on a slope when the brake or inch function is activated and automatically locks all four wheels when the engine is 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 440: 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
55.4 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	55.4 kW (74.3 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.

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 (Special tires upon request)

Standard: 12.5-20 MPT – Multi-purpose tires for sand and gravel surfaces, woodland, roads and paths

Special tires: 400/70 R20 XMCL – Wheel loader tires for clay, sand, gravel, fields and greenland, fortified roads

405/70 R20 EM – Construction machine tires for clay, sand, gravel, asphalting, roads, gardening and landscaping

Hydraulic system

Gear pump for loading and steering hydraulics

Priority valve favoring steering hydraulics

Lowering brake dependent of load

3rd hydraulic section serial

Loading hydraulic hydraulically pre-activated by weycor joystick, including float position

Operating pressure 265 bar, Delivery of pump 62 l/min

Option: Loading hydraulics electrically pre-activated

Fuel/oil capacities	
Diesel	100 Liter
Hydraulic oil	76 Liter
Engine oil	8 Liter
Front axle	4.6 Liter
Rear axle	5.1 Liter
Gear oil	0.9 Liter
Cooling liquid	13 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	
Locking device acc. to German StVZO for road travel	
Lifting	**5.3 s**
Lowering	**3.8 s**
Tipping	**1.7 s**

Equipment – Series

Rear driving mirrors, foldable

Heatable rear screen

Comfortable access to cab from both sides

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 with adjustable right arm rest

Engine oil 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

weycor joystick with knurled wheel and slide switch

Equipment – Option

Load check valve for lifting and working cylinders

Trailer coupling

High speed version 40 km/h

Main battery switch

Special paintings and oils

Corrosion prevention against salt

weycor diagnostic system (ADS) for monitoring engine parameters with integrated electronic anti-theft device

Warning beacon

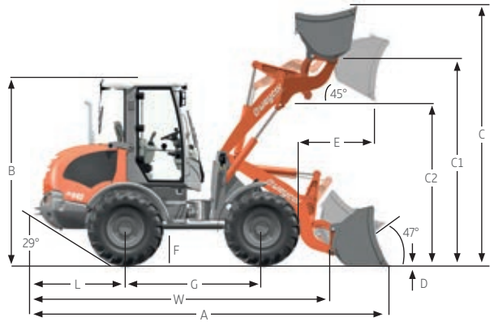
Heatable and air cushioned seats

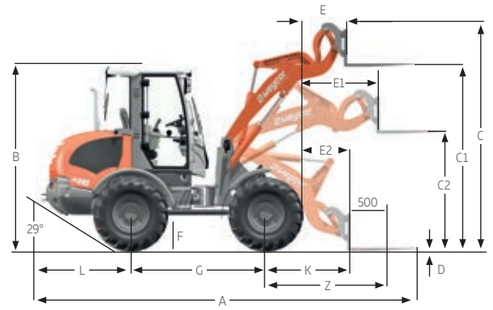
Radio

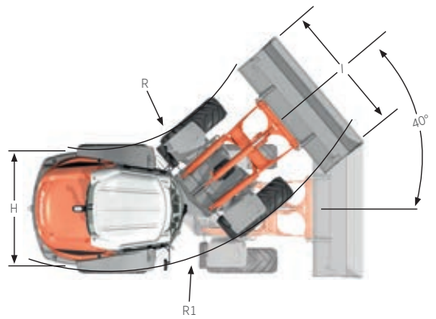
Doors with sliding windows, left and right side

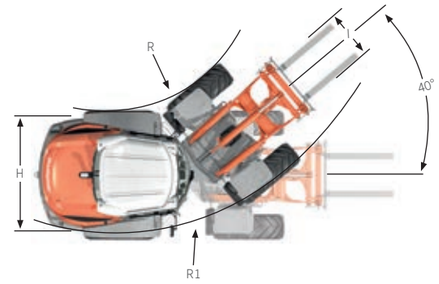
TECHNICAL DATA

	AR 440 with standard shovel	AR 440 with pallet forks
A	5,137 mm	5,552 mm
B	2,661 mm	2,661 mm
C	4,080 mm	3,712 mm
C1	3,296 mm	3,105 mm
C2	2,616 mm	1,424 mm
D	10 mm	6 mm
E	503 mm	283 mm
E1	-	1,106 mm
E2	-	588 mm
F	421 mm	421 mm
G	2,099 mm	2,099 mm
H	1,861 mm	1,861 mm
I	2,050 mm	1,030 mm
K	-	1,122 mm
L	1,331 mm	1,331 mm
R	1,985 mm	1,985 mm
R1	3,865 mm	3,865 mm
R2	4,314 mm	4,314 mm
W	4,390 mm	4,390 mm
Z	-	1,621 mm









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

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weycor BY ATLAS WEYHAUSEN

AR480

OPERATING WEIGHT	ENGINE OUTPUT	SHOVEL CAPACITY
5,760 - 6,280 kg	**55.4 kW (74.3 HP)**	**1.1 - 1.8 m³**

weycor
BY ATLAS WEYHAUSEN

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5,760(1) KG
OPERATING WEIGHT

55.4(2) KW (74.3 HP)
ENGINE OUTPUT

1.1 M^3
SHOVEL CAPACITY

Operating data

Shovel capacity	**1.1 m^3**
Track width	**1,640 mm**
Turning radius (outer shovel edge)	**4,478 mm**
Tear out force	**6,210 daN**
Torque	**5,360 daN**
Tipping load, straight	**4,419 kg / 4,790 kg**(3)
Tipping load, articulated	**3,902 kg / 4,230 kg**(3)
Lifting capacity at ground level	**5,510 daN**
Operating weight	**5,760 kg / 6,280 kg**(3)

Specifications

Differing data for use of pallet forks(4) **(500 mm distance to center of gravity)**	
Static tipping load, straight and articulated	**3,220 kg / 3,481 kg**(3)
Lifting capacity	**4,392 daN**
Payload 80% even surface(5)	**2,576 kg / 2,785 kg**(3)
Payload 60% uneven surface(5)	**1,932 kg / 2,089 kg**(3)

Sound level	
Average sound power level L_wA(6)	**100.0 dB(A)**
Guaranteed sound power level L_wA(6)	**101.0 dB(A)**
Sound pressure level L_pA(7)	**78.0 dB(A)**
Vibration values hand/arm/whole body vibration(8)	**< 2.5/0.5 m/s^2**

(3) AR 480 loaded. (4) Loads are always moved in the ground position. (5) According to ISO 8313 and EN 474-3.
(6) According to 2000/14/EC and Annexes. (7) According to ISO 6396. (8) According to ISO 8041.

Important Information on Shovel Size / Shovel Contents:

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(1) Service weight may vary with different equipment.
(2) Power output ISO 14396, exhaust gas aftertreatment according to EU 2016/1628.
All technical data refer exclusively to the standard unit.

DETAILS THAT MAKE AN IMPRESSION

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State of the art kinematics
weycor Z-kinematics is characterised by high frictional forces and excellent lifting heights. The very good parallel guide provides the optimal prerequisites for using pallet forks. When the hoist is lowered with the shovel, the shovel returns automatically to the digging position. The boom that is tapered towards the top provides the best possible view of the attachment and working area at all times, even under difficult operating conditions.

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

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

Powerful drive unit
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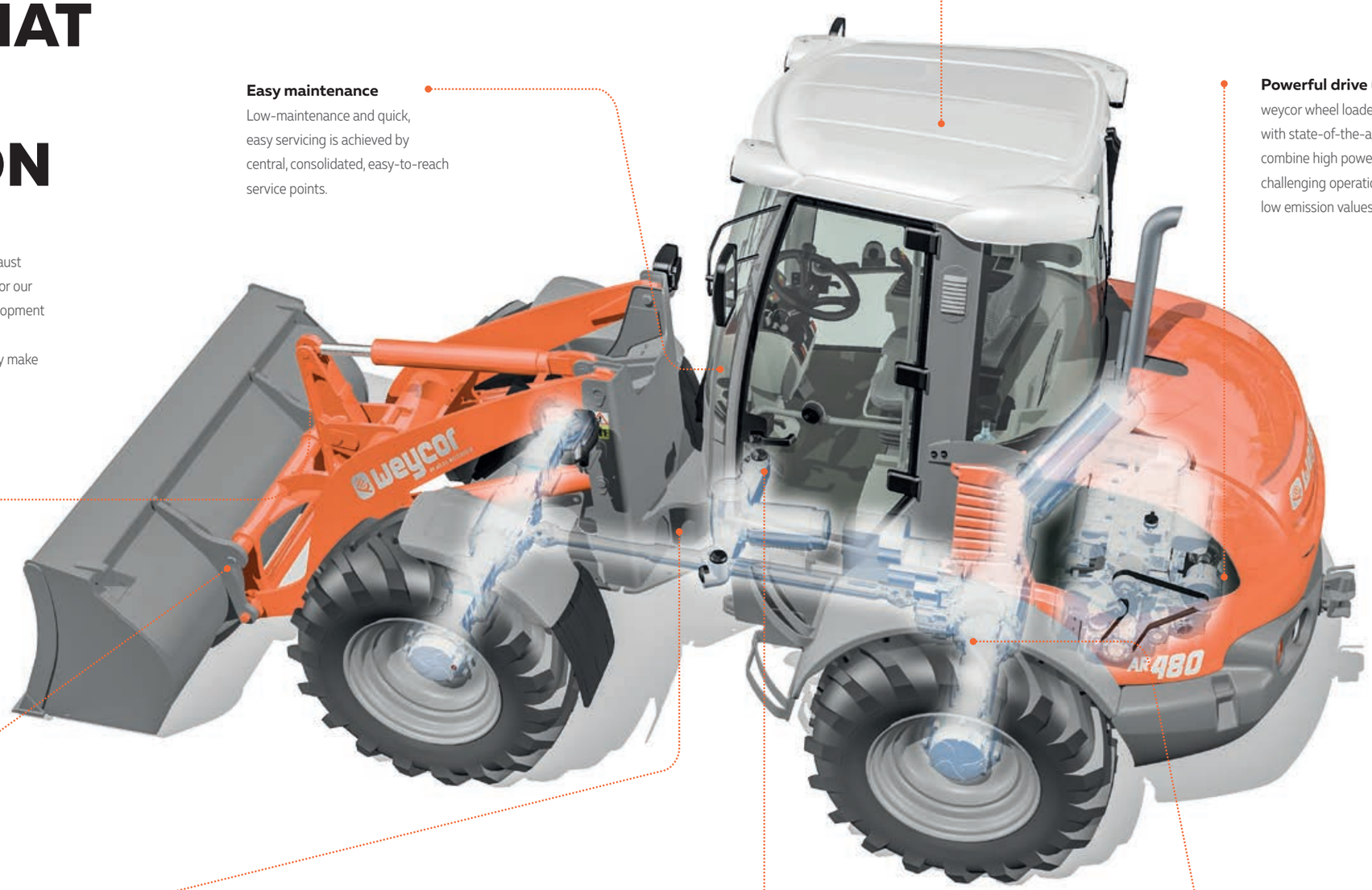


Hydraulic quick-change attachment
By allowing you to change the wheel loader's attachments in a few seconds, it turns the vehicle into an all-rounder.

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 ±12° in the rear carriage and an articulation angle of 40°, 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.

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.

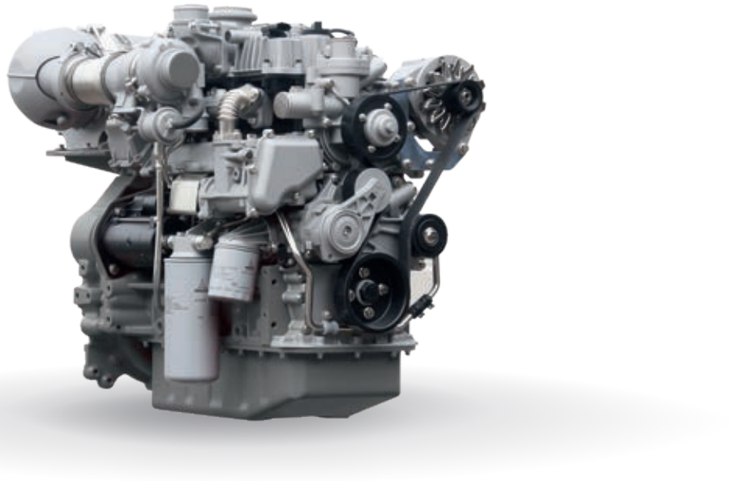
Spring-loaded brake
The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multiple-disc brake) which holds the wheel loader securely in position on a slope when the brake or inch function is activated and automatically locks all four wheels when the engine is 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 480: 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
55.4 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-/intercooled
Output	55.4 kW (74.3 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
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

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

Tires (Special tires upon request)
Standard: 405/70 R20 EM – Construction machine tires for clay, sand, gravel, asphalt, roads, gardening and landscaping
Special tires: 400/70 R20 XMCL – Construction machine tires for clay, sand, gravel, fields and greenland, fortified roads

Hydraulic system
Gear pump for loading and steering hydraulics
Priority valve favoring steering hydraulics
Lowering brake dependent of load
3rd hydraulic section serial
Loading hydraulic hydraulically pre-activated by weycor joystick, including float position
Operating pressure 265 bar, Delivery of pump 62 l/min
Option: Loading hydraulics electrically pre-activated

Fuel/oil capacities	
Diesel	100 Liter
Hydraulic oil	84 Liter
Engine oil	8 Liter
Front axle	5.4 Liter
Rear axle	5.1 Liter
Gear oil	2.5 Liter
Cooling liquid	13 Liter

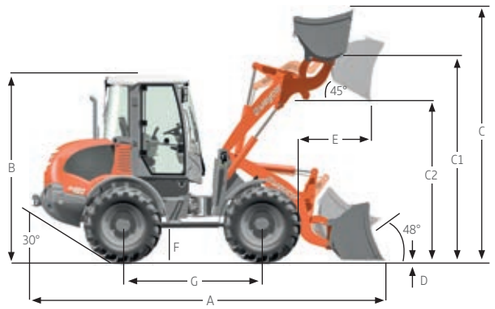
Loading equipment	
Powerful and solid Z-kinematics with high tear out force	
Hydraulic quick change device	
Activation of all functions by weycor joystick	
Parallel movement while using pallet forks	
Automatic shovel return to excavation position	
Locking device acc. to German StVZO for road travel	
Lifting	**6.0 s**
Lowering	**3.8 s**
Tipping	**1.2 s**

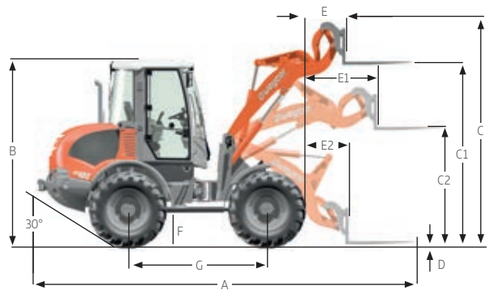
Equipment – Series
Rear driving mirrors, foldable
Heatable rear screen
Comfortable access to cab from both sides
Activation of all functions by weycor joystick
Control lights for speed range, forward/backward travel
Lights acc. to German StVZO for road travel
Individually adjustable driver's seat with adjustable right arm rest
Engine 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
weycor joystick with knurled wheel and slide switch

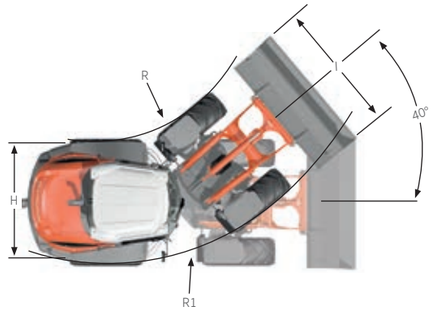
Equipment – Option
4th hydraulic section front or rear
Stability damping system
Load check valve for lifting and working cylinders
Trailer coupling
High speed version 40 km/h
Main battery switch
Special paintings and oils
Corrosion prevention against salt
weycor diagnostic system (ADS) for monitoring engine parameters with integrated electronic anti-theft device
Warning beacon
Anti-theft-device with code stick
Heatable and air cushioned seats
Air conditioning, auxiliary heating
Radio
Doors with sliding windows, left and right side
Heavier counterweight & additional axle weights (approx. 440 kg)

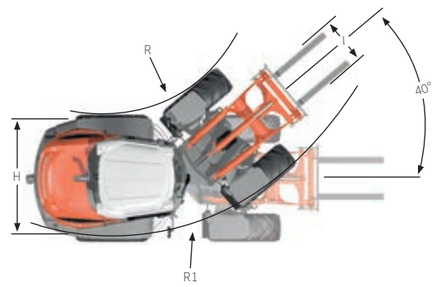
TECHNICAL DATA

	AR 480 with standard shovel	AR 480 with pallet forks
A	5,580 mm	5,930 mm
B	2,730 mm	2,730 mm
C	4,220 mm	3,710 mm
C1	3,380 mm	3,190 mm
C2	2,605 mm	1,440 mm
D	65 mm	65 mm
E	740 mm	515 mm
E1	-	1,310 mm
E2	-	800 mm
F	470 mm	470 mm
G	2,200 mm	2,200 mm
H	2,050 mm	2,050 mm
I	2,150 mm	1,030 mm
R	1,898 mm	1,898 mm
R1	4,046 mm	4,046 mm









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

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

weycor is a brand of ATLAS WEYHAUSEN GMBH.

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weycor BY ATLAS WEYHAUSEN

AR 480S

OPERATING WEIGHT	ENGINE OUTPUT	SHOVEL CAPACITY
6,280 - 6,600 kg	**55.4 kW (74.3 HP)**	**0.8 - 1.6 m³**

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.

6,280(1) KG
OPERATING WEIGHT

55.4(2) KW (74.3 HP)
ENGINE OUTPUT

0.8 M^3
SHOVEL CAPACITY

WEYCOR EST. 1971 TRADITION

Operating data

Shovel capacity	**0.8 m³**
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 (3) **(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(4)	**2,190 kg**
Payload 60% uneven surface(4)	**1,643 kg**

Sound level	
Average sound power level L_WA(5)	**99.9 dB(A)**
Guaranteed sound power level L_WA(5)	**101.0 dB(A)**
Sound pressure level L_pA(6)	**78.0 dB(A)**
Vibration values hand/arm/whole body vibration(7)	**< 2.5/0.5 m/s²**

(3) Loads must always be moved to the ground. (4) According to ISO 8313 and EN 474-3.
(5) According to 2000/14/EC and Annexes. (6) According to ISO 6396. (7) 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^3) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m^3. 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.

(1) Service weight may vary with different equipment.
(2) Power output ISO 14396, exhaust gas aftertreatment according to EU 2016/1628.
All technical data refer exclusively to the standard unit.

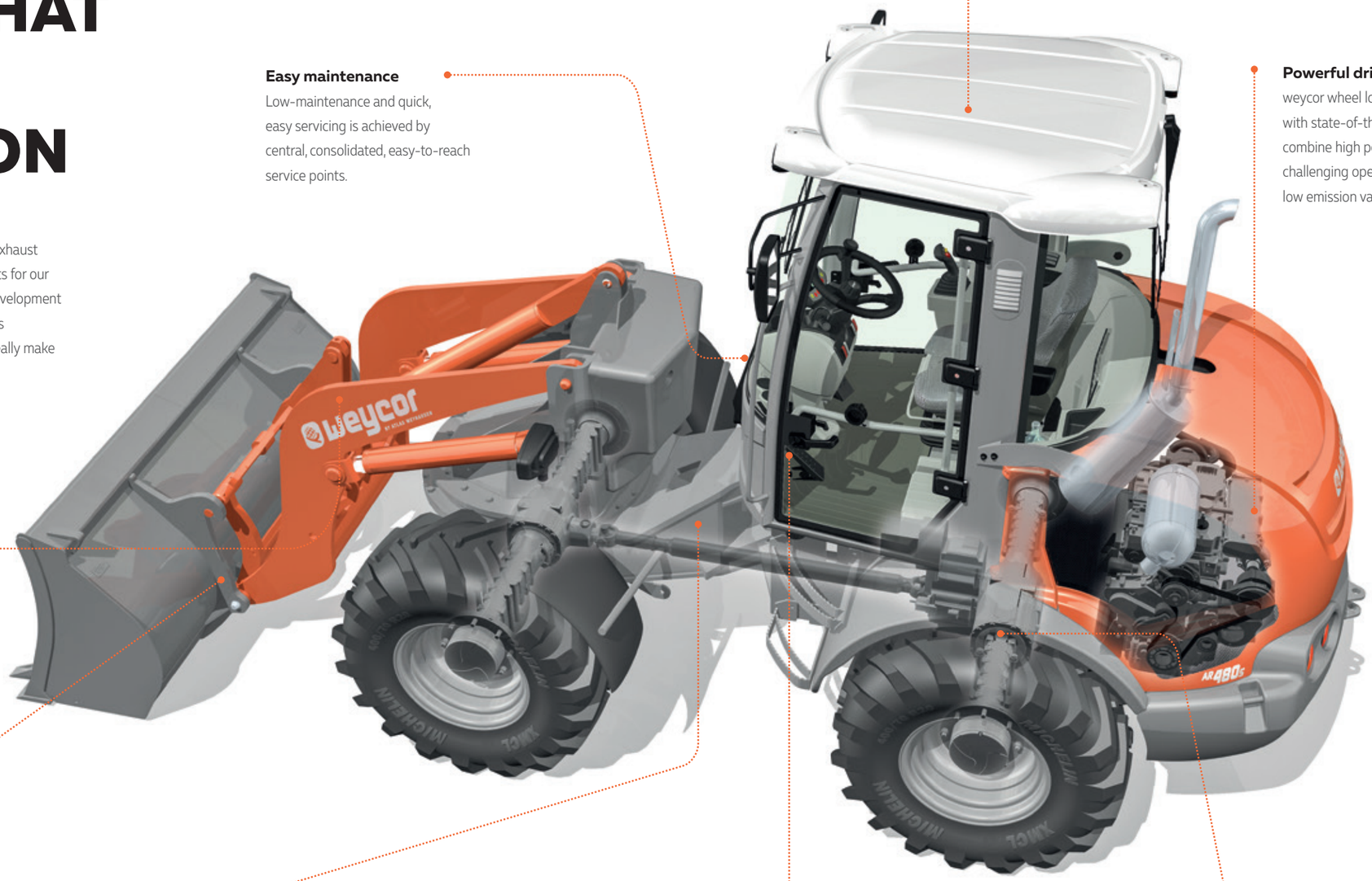
DETAILS THAT MAKE AN IMPRESSION

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.

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

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

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.



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.

Articulated joint
The combination of pendulum joint and the rear oscillating axle provides for excellent maneuverability and cross-country 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.

Spring-loaded brake
The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multiple-disc 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
55.4 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	55.4 kW (74.3 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 damage

Hydraulic quick change device

Activation of all functions by weycor joystick

Parallel movement while using pallet forks

Automatic shovel return to excavation position

Locking device acc. to German StVZO for road travel

Lifting	**5.6 s**
Lowering	**4.3 s**
Tipping	**1.2 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

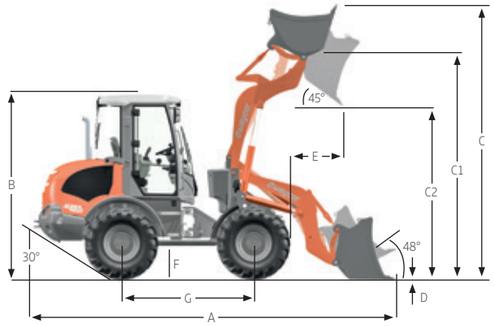
Glass roof arrangeable

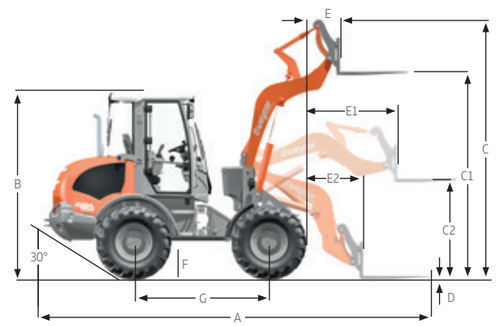
Hydraulic start-stop system

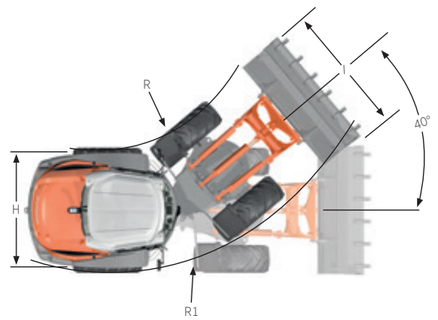
Diesel particulate filter

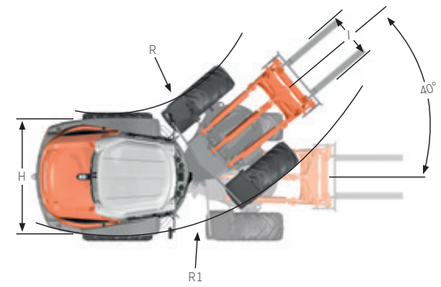
TECHNICAL DATA

	AR 480S with standard shovel	AR 480S with pallet forks
A	5,400 mm	5,820 mm
B	2,796 mm	2,796 mm
C	4,015 mm	3,465 mm
C1	3,241 mm	3,035 mm
C2	2,550 mm	1,375 mm
D	80 mm	50 mm
E	610 mm	510 mm
E1	-	1,350 mm
E2	-	900 mm
F	500 mm	500 mm
G	2,000 mm	2,000 mm
H	1,950 mm	1,950 mm
I	1,970 mm	1,030 mm
J	510 mm	1,010 mm
K	250 mm	750 mm
R	1,772 mm	1,772 mm
R1	3,761 mm	3,761 mm









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

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

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weycor BY ATLAS WEYHAUSEN

AR 480T

OPERATING WEIGHT	ENGINE OUTPUT	SHOVEL CAPACITY
6,000 - 6,500 kg	**55.4 kW (74.3 HP)**	**1.0 - 1.8 m³**

weycor
BY ATLAS WEYHAUSEN

FIRST IMPRESSIONS COUNT!

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6,000(1) KG
OPERATING WEIGHT

55.4(2) KW (74.3 HP)
ENGINE OUTPUT

1.0 M^3
SHOVEL CAPACITY

WEYCOR EST. 1971 TRADITION

Operating data

Shovel capacity(3)	**1.0 m³**
Track width	**1,510 mm**
Tear out force	**4,300 daN**
Torque	**4,310 daN**
Tipping load, straight	**3,627 kg**
Tipping load, straight / extended	**2,049 kg**
Tipping load, articulated	**3,208 kg**
Tipping load, articulated / extended	**1,812 kg**
Lifting capacity at ground level	**3,600 daN**
Operating weight	**6,000 kg**

(3) When participating in public road traffic according to STVZO, only the loading shovel with the number 8059493 is permitted. (4) Loads must always be moved in the ground position. (5) According to ISO 8313 and EN 474-3. (6) According to 2000/14/EC and annexes. (7) According to ISO 6396. (8) According to ISO 8041.

Specifications

Differing data for use of pallet forks (4) (500 mm distance to center of gravity)	
Tipping load, straight	**3,119 kg**
Tipping load, straight / extended	**1,852 kg**
Tipping load, articulated	**2,759 kg**
Tipping load, articulated / extended	**1,638 kg**
Payload 80% even surface(5)	**2,207 kg**
Payload 80% extended boom(5)	**1,310 kg**
Payload 60% uneven surface(5)	**1,655 kg**
Payload 60% extended boom(5)	**983 kg**

Sound level	
Average sound power level L_wA(6)	**100.0 dB(A)**
Guaranteed sound power level L_wA(6)	**101.0 dB(A)**
Sound pressure level L_pA(7)	**77.0 dB(A)**
Vibration values hand/arm/whole body vibration(8)	**< 2.5/0.5 m/s²**

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

(1) Service weight may vary with different equipment.
(2) Power output ISO 14396, exhaust gas aftertreatment according to EU 2016/1628.
All technical data refer exclusively to the standard unit.

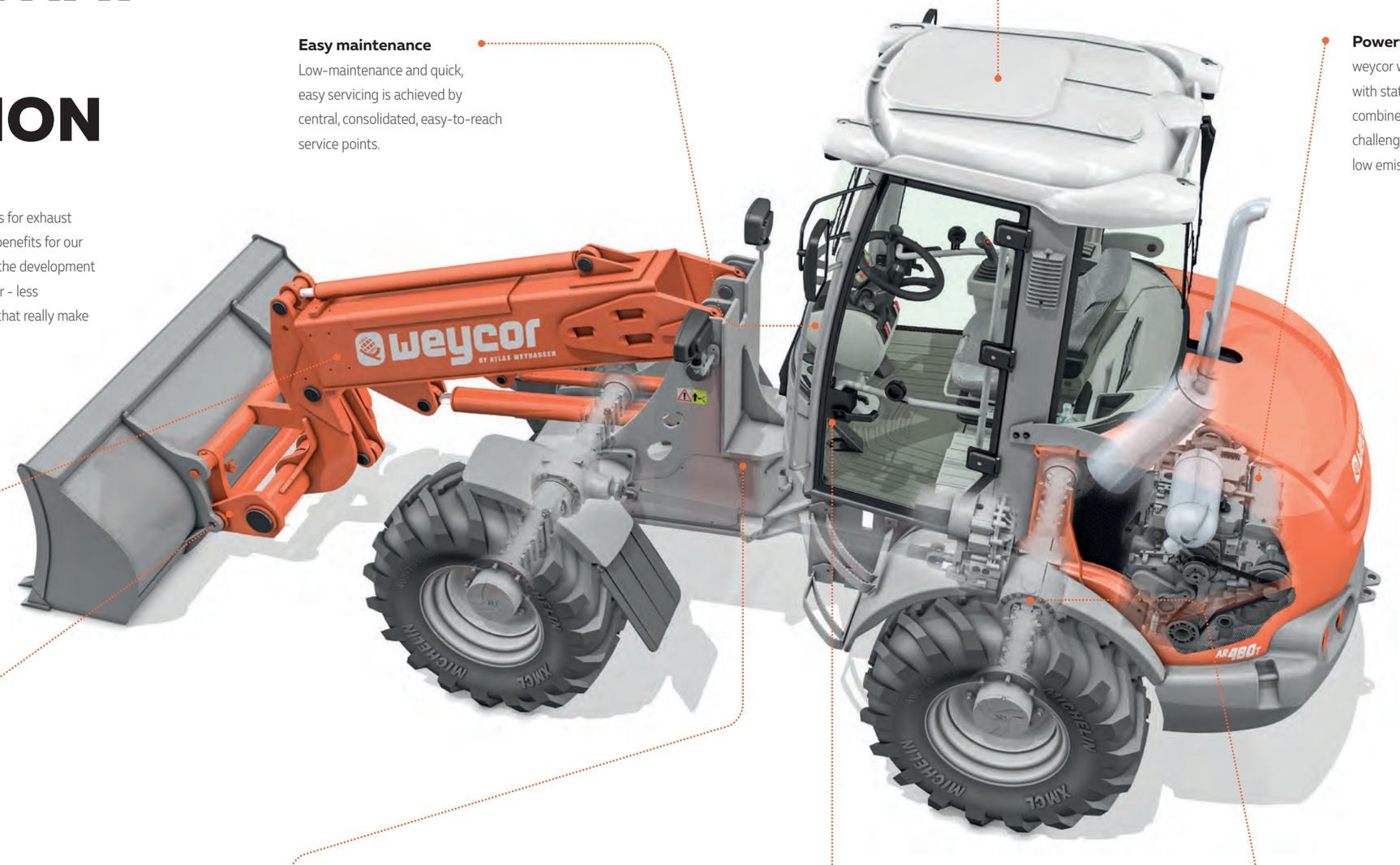
DETAILS THAT MAKE AN IMPRESSION

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.

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

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

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.



Latest kinematics technology
The proven and tested weycor kinematics with its exceptional tear-out force and excellent lifting heights. Telescopic cylinder with endposition cushioning.

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 joint
The combination of pendulum joint and the rear oscillating axle provides for excellent maneuverability and cross-country 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.

Spring-loaded brake
The spring-loaded or negative brake in weycor wheel loaders is a closed brake system (oil bath multiple-disc 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 480T: 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
55.4 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	55.4 kW (74.3 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
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

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
4th hydraulic section
Loading hydraulic hydraulically pre-activated by weycor joystick, including float position
Operating pressure 230 bar, Delivery of pump 66 l/min

Fuel/oil capacities	
Diesel	80 Liter
Hydraulic oil	78 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 and solid Z-kinematics
Telescopic range 1,200 mm
Telescopic cylinder with damping working cylinder
Hydraulic quick change device
Activation of all functions by weycor joystick
Parallel movement while using pallet forks
Locking device acc. to German StVZO for road travel

Lifting	**6.5 s**
Lowering	**6.0 s**
Tipping	**1.8 s**

Equipment – Series

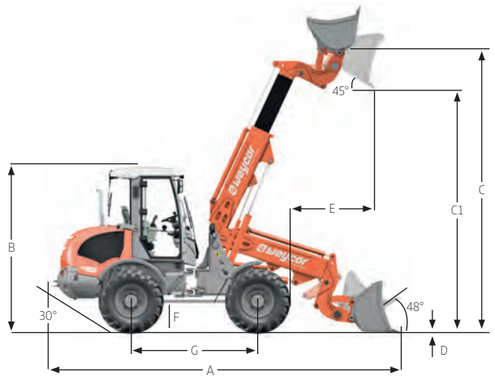
Rear driving mirrors, foldable
Heatable rear screen
Comfortable access to cab from both sides
Joystick with integrated proportional steering for 3rd section or swing-action control
weycor diagnostic system
Control lights for speed range, forward/backward travel
Lights acc. to German StVZO for road travel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

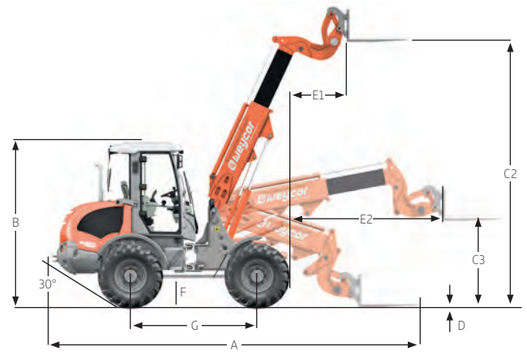
Equipment – Option

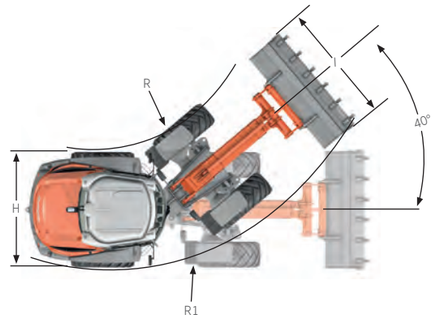
Stability damping system
High speed version 40 km/h
Air conditioning
Hand throttle unit
Load check valve
Trailer coupling
Main battery switch
Special paintings and oils
Corrosion prevention against salt
Warning beacon
Anti-theft-device with code stick
Heatable and air cushioned seats
Radio
Doors with sliding windows, left and right side
Diesel particulate filter

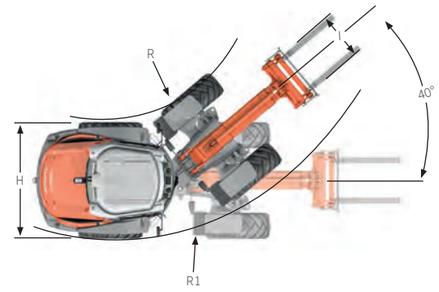
TECHNICAL DATA

	AR 480T with standard shovel	AR 480T with pallet forks
A	5,804 mm	6,124 mm
B	2,796 mm	2,796 mm
C	4,838 mm	-
C1	4,080 mm	-
C2	-	4,650 mm
C3	-	1,530 mm
D	60 mm	60 mm
E	1,380 mm	-
E1	-	1,074 mm
E2	-	2,695 mm
F	492 mm	492 mm
G	2,200 mm	2,200 mm
H	1,950 mm	1,950 mm
I	2,150 mm	1,030 mm
R	2,105 mm	2,105 mm
R1	4,545 mm	4,.545 mm









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

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