

# FEEL THE POWER!

**AR 200<sup>e</sup> / AR 250<sup>e</sup>**

**THE NEW POWER CATEGORY MOVES AHEAD.**



 **Weycor**  
BY ATLAS WEYHAUSEN



**POWER THAT  
MOVES.**

## **AR 200<sup>e</sup> / AR 250<sup>e</sup> THE NEW POWER CATEGORY.**

**More wheel loader. More strong  
points. More intelligent solutions.**

A weycor wheel loader in XXL is a big thing for us. And more than that, our AR 250<sup>e</sup> is even great! In the past three years, we have been thinking bigger and above all, we have been thinking ahead. All levels of management and all departments – financial controlling, the distribution team, industrial designers, mechanical engineers, quality control, and our assembly workers – contributed to the development by sharing their experience and know-how. Our customers' wishes were also taken into account. They were implemented on the basis of the expertise gathered from more than 40 years of manufacturing compact wheel loaders, thereby applying our high standards with regard to service life, power and performance.

And now, our AR 250<sup>e</sup> is finally ready to spring into action: With this machine, you enjoy all the benefits of a power category that is up to any task, anywhere. In every detail, it is tailored to the drivers' needs for comfort & efficiency. In addition, its engine is extremely powerful as well as sustainable and economical.

Care to sit in it to see how it feels? Let us inspire you to share our enthusiasm and passion!



# THINK BIG – RIGHT DOWN TO THE SLIGHTEST DETAIL.



## 1,500 TRIED AND TESTED PROMISES THAT SPELL QUALITY.

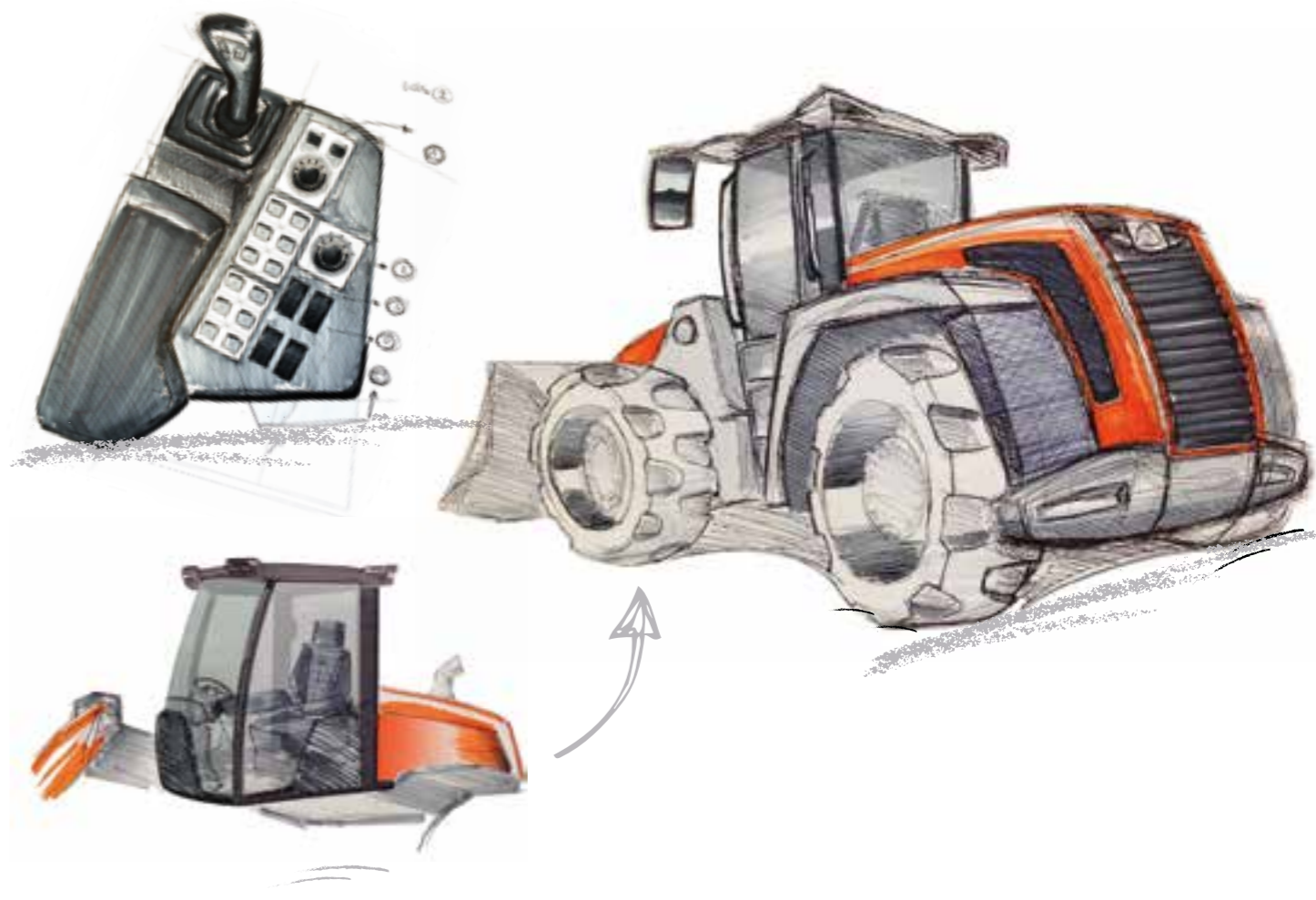
What does the driver need? What features will the customers expect? The three-year development phase for our new AR 250e was marked by an intensive exchange of ideas and close cooperation – both among our staff here at Atlas Weyhausen and with all our partners and suppliers. 1,500 common decisions were necessary to settle on all the details from the initial phases to the completion of the wheel loader.

We put the AR 250e together piece by piece, part by part. This approach required a fair amount of discipline on the part of all those involved in adding this new power category to our range of weycor wheel loaders. Both the main components of the machine (such as axles, the engine, and the hydraulic system) and the smaller parts were repeatedly subjected to rigorous testing. As a result, the machine is ready for operation, waiting to satisfy your demands, wherever you want to put it to the test, worldwide.



### ”FACE-TO-FACE WITH THE R&D DEPARTMENT“ Lutz Meyer, industrial designer

“As an industrial designer, right from the start of the project, I literally worked face-to-face with the engineers and technicians of the R&D department. We defined the key points for the initial drafts together. Implementing the highest standards and my visions with regard to the design while at the same time, keeping efficiency and feasibility in mind turned out to be a real balancing act. After all, the machine is still primarily a working tool. Using the well-established stylistic features commonly associated with weycor as the basis for developing new ones, in order to create a distinctive brand identity, was one of my main challenges: Take the engine hood and the counterweight, for example – they contribute to the truly unique look of the machine. For the cab design, ergonomic aspects played the key role. We aimed at providing the driver with a clear overview and wanted the design to reflect the cutting-edge features and details, thereby focusing on the essential elements. The result: A workplace that is excellently equipped in terms of its technology and its comfort factor!”







# TEAMWORK IS THE MAGIC WORD.

Interview with Artur Gabriel.

“ The best technology is the one that sells best. ”

**This is the mission statement that Artur Gabriel, head of the R&D department at Atlas Weyhausen, has always kept in mind since the start of his education. Right before the first public presentation of the machine, he tells us what sparked his enthusiasm and commitment to the AR 250e.**

**When did Atlas Weyhausen start toying with the idea of offering a wheel loader in this category?**

Frankly speaking, since our customers started asking for it. I basically started to think about it as early as 2006. From then on, I could not get the idea out of my head. And when the budget for the project was finally approved, we jumped at the opportunity. For a medium-sized company like ours, this process was a massive effort. I have to say that in the last few years, in our industrial sector, we sometimes felt we were kept busy by the constraints we were under, because of the fact that we had to keep adapting our technology to the latest EU emission standards, which were changing much more rapidly than in the automobile industry. Those changes are absolutely right and necessary, in view of environmental protection, of course, but they made great demands on our time and resources, which, in a way, reduced the leeway for innovations. Against this background, what we have accomplished here at Atlas Weyhausen is an extraordinary achievement.

**Why is the lion a suitable symbol for the AR250e?**

The lion was our first choice when it came to a marketing concept for the AR 250e. As a predator, the lion pushes its limits and focuses all its attention and power on one single goal. That's the perfect way to do it. Likewise, we, too, pushed our limits, thinking out of the box and overcoming all obstacles. This resulted in a wheel loader which represents everything we stand for, and we are proud of it.

**How did you feel about the development process?**

I experienced something truly remarkable: A team spirit which permeated the entire company. Among our staff, there were many who sacrificed their free time to enable us to stay on schedule.

“ We pushed our limits, thinking out of the box and overcoming all obstacles. ”

And that's the only way to succeed in a medium-sized business – you can only manage a complex project like that with a team that is extraordinarily motivated and effective. That's certainly something I am very proud of as well!

**So what does this new wheel loader category mean to Atlas Weyhausen?**

The AR 250e addresses a new market and satisfies the customers who kept asking for an XXL-dimensioned machine. Beyond this new AR platform, all technical innovations will also be incorporated in our product range of compact weycor wheel loaders. Thus, for all our customers and the company as a whole, this is a huge leap forward.

**And what does this large-scale project mean to you personally?**

Of course, being in charge of developing an entire machine completely from scratch is every engineer's dream. Aside from this, I personally feel it's our obligation to advance technology to reduce emissions. Our AR 250e is special as a wheel loader, particularly in terms of its energy efficiency. Maximum performance at the lowest possible fuel consumption – that remains one of our central goals as design-engineers. And I can assure you that in this respect, you can expect further advancements and innovations from Atlas Weyhausen in the future!



# AR 200<sup>e</sup>

Operation weight  
**12,400 kg**

Power  
**115.0 kW (154.0 HP)**

Shovel capacity  
**2.10 - 2.50 m<sup>3</sup>**



# AR 250<sup>e</sup>

Operation weight  
**13,800 kg**

Power  
**160.0 kW (215.0 HP)**

Shovel capacity  
**2.40 - 3.00 m<sup>3</sup>**

This platform sets the standard for our XXL wheel loaders in terms of quality and performance. Expect more!



**IT'S BETTER  
TO BE WELL  
EQUIPPED.**





# DETAILS THAT SPEAK FOR THEMSELVES.



Jens Diephaus, mechanical engineer, group leader cab development

## “VISIBILITY IS THE BIG ISSUE”

“When it comes to cab design, visibility is the big issue. The one-piece windows and the slim steering column contribute to an exceptional all-around visibility so that basically, there is no need for a rear view camera. In addition to this, to us, the essential question regarding visibility is: What does the driver really have to keep an eye on? That’s why we carried out an analysis of the visibility field and used the results to optimize the layout of the control elements, limiting the number of displays to the most relevant information. Eight LED headlights serve to ensure excellent visibility, even outside the cab. Making the driver feel comfortable in the cab mattered a lot to us. So we developed a sophisticated ventilation system and an ergonomic seat with a new joystick, which is adjustable in all directions in order to meet the individual requirements of all drivers.”

### LOW NOISE LEVEL

Good insulation serves to substantially reduce the noise level in the cab. Most of the devices and components that generate heat are installed outside the cab.

### A COMFORTABLE SEAT THAT KEEPS YOU WIDE AWAKE

The modern, ergonomic design of the driver’s seat and the excellent accessibility of the display controller and the joystick ensure a trouble-free working day without fatigue.

### SLIM STEERING COLUMN

The steering column takes up only a third of the entire front so you are in control of the bucket motions at all times.

### SAFETY FIRST

In addition to the requirements for ROPS, the cab design meets all safety standards for FOPS Level 2 – thus, maximum safety is guaranteed.

### SOPHISTICATED VENTILATION SYSTEM

The installation of the air filter at the highest, dust-free location in the machine ensures fresh air in the interior of the cab, and overpressure in the cab prevents pollutants from entering.

### ALL-AROUND VISIBILITY

The curved front windshield, the one-piece lateral glass pane on the right (with a sliding window that is flush with the adjacent areas) and a deep-drawn rear windshield result in exceptional all-around visibility for precise work motions.





**TAKE A SEAT!**



### UNRIVALED: THE VISIBILITY FIELD



Front: Unimpeded view from the top to the floor, unobstructed by the steering column.



Sides & rear: All-around visibility and a rear view camera.

### ELABORATE: DISPLAY & CONTROL



Display: Reduced displays for easy handling.



Controller: Variable key panels for functions related to working and driving.

### HIGHLY ADJUSTABLE: THE STEERING WHEEL



The height and the angle of the steering wheel can be set to your individual needs – the display pivots accordingly.

### SIMPLE AND CUSTOMIZED: CONTROL ELEMENTS



- > Reduced elements for intuitive handling
- > Elaborate display control
- > Special weycor joystick
- > Ergonomic movement with the seat
- > Perfect for all hand sizes

### COMES IN HANDY: STORAGE COMPARTMENT



Designated space for euro boxes so the driver can keep documents or private items in the vehicle – ideal for multi-shift operation.

#### STANDARD EQUIPMENT:

- > Engine water heating with heat exchange and 4-stage fan
- > Heatable rear screen
- > Rear view mirrors, foldable
- > Individually adjustable driver's seat with adjustable right arm rest
- > Front and rear windshield washer system
- > Central dashboard with indicators for preheating, engine temperature, fuel, operating hour meter
- > and much more

#### EQUIPMENT OPTIONS:

- > Heatable and air cushioned seats, A/C unit
- > Radio
- > Special paintwork and oils
- > Trailer coupling
- > Ride control
- > Joystick with integrated proportional steering for 3rd section
- > Corrosion prevention against salt
- > Max. speed 20 km/h
- > and much more

**A POWERFUL  
PERFOR-  
MANCE.**





Sascha Barthel, mechanical engineer, project leader (development of the entire machine)

## “A HIGH-END ENGINE FOR A TOP-OF-THE-LINE PRODUCT”

“Traditionally, Atlas Weyhausen products have been associated with dynamics and safety, thanks to their high performance and the hydrostatic drive. Of course, we wanted to adhere to these principles when developing the AR 250<sup>e</sup>. We also pursued the traditional path when choosing Deutz as our engine manufacturer. More than 40 years of successful cooperation mark the relationship between Atlas Weyhausen and Deutz.

For us, meeting the latest – and future - emission standards goes without saying. Thus, our AR 250<sup>e</sup> is Tier V ready. The engine and its power output, in conjunction with a perfectly adapted traction drive, serve to ensure that driving pleasure is not confined to certain car brands any more, as all our test drivers have confirmed! I consider our new wheel loader one of the top-of-the-line models in the 2.5 m<sup>3</sup> category, for many reasons.”

# A MACHINE DEMONSTRATES ITS GREATNESS.



# MORE FROM LESS.

**6 cylinders, 218 PS (215 Hp):** The AR 250<sup>e</sup> moves forward very powerfully – which inspired us to think ahead as well: It was our expressed goal to lower its fuel consumption while at the same time, enhancing the efficiency of the entire machine: for instance, by reducing the rotational speed of the diesel engine and by means of a generous concept for the hydraulic components. As a result of the fact that the separate components in the AR 250<sup>e</sup> wheel loader are controlled electronically, they can communicate with each other. Hence, the diesel engine emits just the amount of power that is really required at a given time. This leads to a decrease in fuel consumption, emissions and noise levels.

## OPTIONAL HYDRAULIC QUICK COUPLER

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

## LATEST KINEMATICS

Tried and tested, robust weycor kinematics with high tear-out forces and an excellent lifting height.

## EASY MAINTENANCE

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

## COMFORTABLE CAB

Excellent all-around visibility, clearly arranged controls, and ergonomic design.

## POWERFUL TRACTION DRIVE

Outstanding traction, thanks to a 100% shiftable differential lock in the front and the rear axles.

## UNIQUE GEARBOX MOUNTING

Autonomous gear box mounting, which is decoupled from the axle to prevent vibration and noise emission.



## ARTICULATED JOINT & OSCILLATING AXLE

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

## THE ONLY MANUFACTURER THAT OFFERS A SEPARATE INCHING PEDAL

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

## WEAR-FREE NEGATIVE BRAKE

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

## OPERATING DATA

Shovel capacity acc. to SAE	2.4 m <sup>3</sup>
Turning radius (outer shovel edge)	5,497 mm
Tear out force	11,900 daN
Torque	11,600 daN
Tipping load, straight	9,960 kg
Tipping load, articulated	8,800 kg
Service weight	13,800 kg

### Noise level

Average sound power-level L <sub>WA</sub> <sup>(1)</sup>	104.0 dB(A)
Guaranteed sound power-level L <sub>WA</sub> <sup>(2)</sup>	105.0 dB(A)
Sound pressure level L <sub>PA</sub> <sup>(3)</sup>	69.0 dB(A)

### Specific vibration-data

Hand-arm / Whole-body vibration level<sup>(4)</sup> < 2.5/0.5 m/s<sup>2</sup>

(1) According to 2000/14/EG & annexes.  
 (2) According to 2000/14/EG & annexes. (3) According to ISO 6396.  
 (4) According to ISO 8041.



## AN INNOVATIVE CONCEPT FOR THE HYDRAULIC SYSTEM.

### Power at your disposal

The concept for the hydraulic system was developed in cooperation with Bosch Rexroth and was carefully fine-tuned. With its powerful work hydraulics and its exceptional user-friendliness, our new big weycor wheel loader is in the upper league of construction machines in this category.

### Flexible work hydraulics

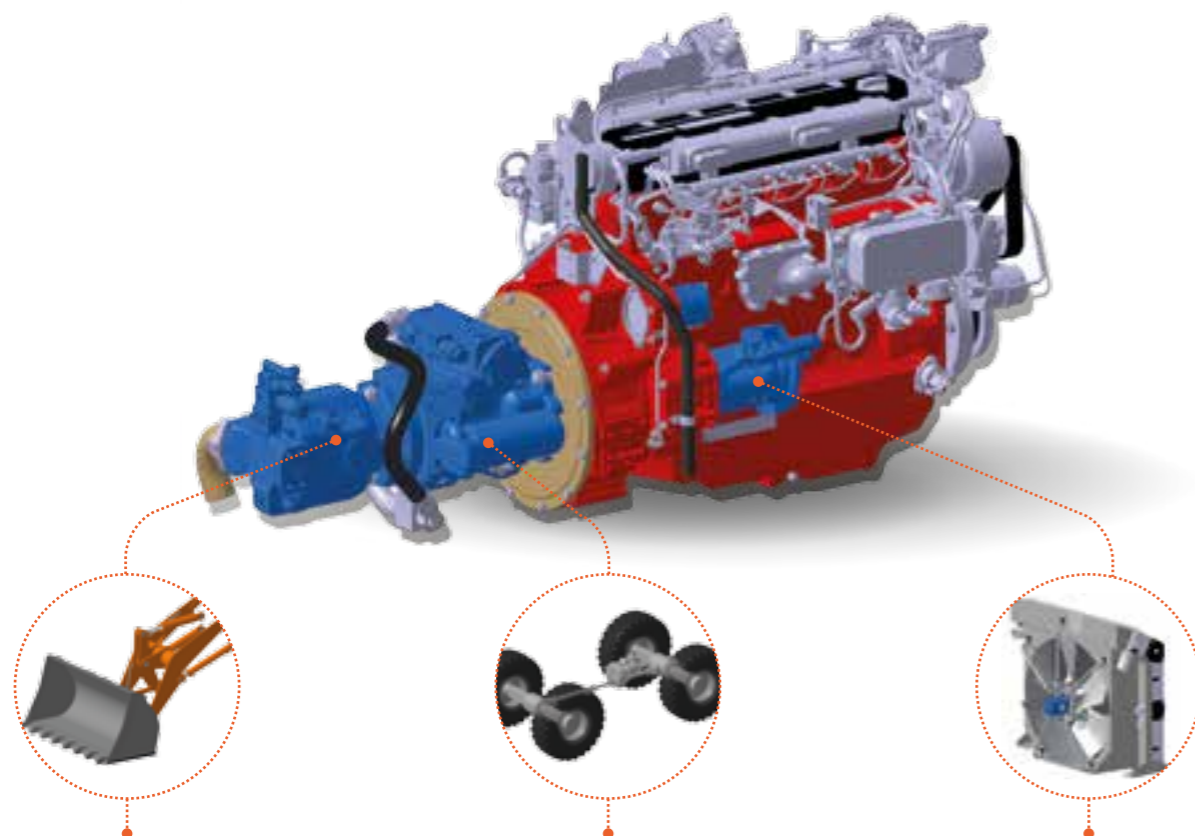
Designed for quick motions at low rotational speeds – the latest control valve technology and high forces ensure efficient work.

### Fan drive

The demand controlled fan drive enables you to reduce emissions and to save fuel, even at exterior temperatures of 50°C (122 °F).

### Individual settings

The weycor display control system, in combination with the quick access buttons, enables the driver to choose from a wide range of optional settings like rotational speed, flow rate, and continuous operation.



Primary function:  
**LOADER**

Secondary function:  
**STEERING SYSTEM**

Primary function:  
**TRACTION DRIVE**

Secondary function:  
**CONTROL CIRCUIT SUPPLY**

**FAN DRIVE**

## INNOVATIVE ENGINE TECHNOLOGY.

### TCD 6.1 L6 – intelligent efficiency:

We have been counting on Deutz engines for over 40 years. This cooperation offers a lot of benefits for our AR 250E: Take the electronic engine control with its intelligent link to the drive management, for instance: It ensures the best engine performance while keeping the fuel consumption low. The water-cooled TCD 6.1 L6 diesel engine constitutes the core of our new power category.

### Powerful performance

160 kW at a maximum of 2,000 rpm

### Meeting emission standards

Thanks to its exhaust system (DOC/DPF/SCR), the engine meets emission standard TIER IV final and is TIER V ready.



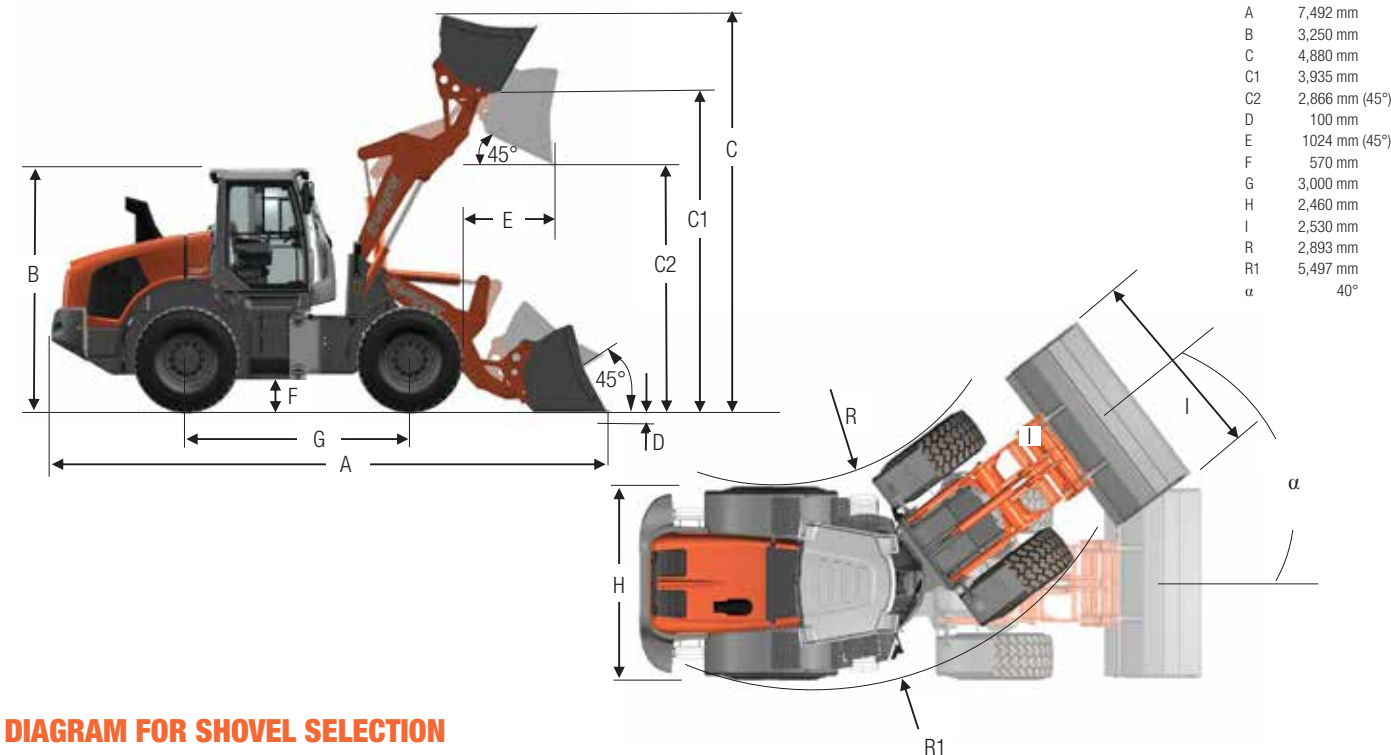
### DEUTZ ENGINE TECHNOLOGY

#### TCD 6.1 L6

Water-cooled 6-cylinder inline engine with turbocharging, charge air cooling and cooled external exhaust gas recirculation. Engine and exhaust aftertreatment (EAT) are adapted to an optimum efficiency of the total system and therefore ensure minimum fuel and total running costs. The powerful DEUTZ Common Rail (DCR<sup>®</sup>) injection system and the electronic engine control (EMR 4) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption. The engines meet the requirements of the EU Stage IV and US EPA Tier 4 with DVERT<sup>®</sup> selective catalytic reduction (SCR) and particulate filter (DPF). Through use of the DPF they already comply with EU Stage V emission standards, scheduled for 2019.

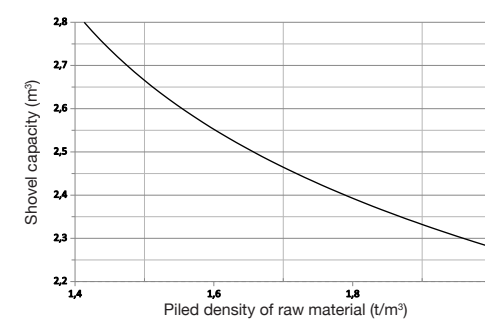


## TECHNICAL DATA AR 105e WITH STANDARD SHOVEL



A	7,492 mm
B	3,250 mm
C	4,880 mm
C1	3,935 mm
C2	2,866 mm (45°)
D	100 mm
E	1024 mm (45°)
F	570 mm
G	3,000 mm
H	2,460 mm
I	2,530 mm
R	2,893 mm
R1	5,497 mm
α	40°

## DIAGRAM FOR SHOVEL SELECTION



## SPECIFIC GRAVITY FOR MATERIAL HANDLING WEIGHT (t/m³)

Construction	Industry	
concrete	ember	0.7
soil (dry)	brown coal briquette	0.8
soil (watery)	ferrous product	7.8
rock (fill)	iron ore	0.4
granite	cullet	1.9
limestone	gas coke	0.4
gravel (dry)	timber	0.8
gravel (watery)	mineral coal	1.2
loam	paper	0.9
plaster	slag	1.0
sand (dry)	slag concrete	2.7
sand (watery)		
sandstone		
shale		
sediment		
crushed stone		
de-icing salt		
clay		
cement		
clinker (stacked)		

phosphate fertiliser	2.2
turf (watery)	1.1
turf (dry)	0.4
mineral fertilizer	1.0

### Landscaping, Agriculture

agricultural crop	0.7
grain	0.6
hay	0.3
potash	1.1
compost	1.0
flour	0.5
clay (watery)	2.3

## OPERATING DATA

Shovel capacity acc. to SAE	2.4 m³
Turning radius (outer shovel edge)	5,497 mm
Tear out force	11,900 daN
Torque	11,600 daN
Tipping load, straight	9,960 kg
Tipping load, articulated	8,800 kg
Service weight	13,800 kg

### Sound level

Average acoustic power-level $L_{wA}^{(1)}$	104.0 dB(A)
Guaranteed acoustic power-level $L_{wA}^{(2)}$	105.0 dB(A)
Sound pressure level $L_p^{(3)}$	69.0 dB(A)
Specific vibration-data	
Hand- / arm- / bodyvibration <sup>(4)</sup>	< 2.5/0.5 m/s²

(1) According to 2000/14/EG & appendixes.

(2) According to 2000/14/EG & appendixes, (3) According to ISO 6396.

(4) According to ISO 8041.

# PRODUCT RANGE

## S

<b>AR 30</b>	
Operation weight	2,150 kg
Power	24.6 kW (33.5 HP)
Shovel capacity	0.32 - 0.45 m³

## L

<b>AR 60</b>	
Operation weight	4,300 kg / 4,650 kg
Power	36.5 kW (50.0 HP)
Shovel capacity	0.65 - 1.00 m³

## XL

<b>AR 80<sup>e</sup></b>	
Operation weight	6,220 kg
Power	70.0 kW (95.0 HP)
Shovel capacity	1.10 - 1.30 m³

## AR 35

Operation weight	2,500 kg
Power	24.6 kW (33.5 HP)
Shovel capacity	0.34 - 0.45 m³

## AR 65<sup>e</sup>

Operation weight	5,150 kg
Power	54.0 kW (73.0 HP)
Shovel capacity	0.80 - 1.05 m³

## AR 85<sup>e</sup>

Operation weight	7,000 kg
Power	80.0 kW (109.0 HP)
Shovel capacity	1.30 - 1.50 m³

## AR 35 Super

Operation weight	2,875 kg
Power	29.4 kW (40.0 HP)
Shovel capacity	0.34 - 0.50 m³

## AR 75<sup>e</sup>

Operation weight	5,760 kg
Power	54.0 kW (73.0 HP)
Shovel capacity	1.00 - 1.25 m³

## AR 95<sup>e</sup>

Operation weight	7,900 kg
Power	85.0 kW (115.5 HP)
Shovel capacity	1.40 - 2.00 m³

## AR 40

Operation weight	3,500 kg
Power	29.4 kW (40.0 HP)
Shovel capacity	0.50 - 0.60 m³

## AR 75<sup>e</sup> S

Operation weight	6,280 kg
Power	54.0 kW (73.0 HP)
Shovel capacity	0.80 m³

## AR 95<sup>e</sup> Super

Operation weight	8,200 kg
Power	95.0 kW (129.0 HP)
Shovel capacity	1.40 - 2.00 m³

## AR 75<sup>e</sup> T

Operation weight	6,000 kg
Power	54.0 kW (73.0 HP)
Shovel capacity	1.00 m³

## Model range XXL



<b>AR 105<sup>e</sup></b>	
Operation weight	9,450 kg
Power	105.0 kW (143.0 HP)
Shovel capacity	1.60 - 2.00 m³



<b>AR 200<sup>e</sup></b>	
Operation weight	12,400 kg
Power	115.0 kW (156.0 HP)
Shovel capacity	2.10 - 2.50 m³



<b>AR 250<sup>e</sup></b>	
Operation weight	13,800 kg
Power	160.0 kW (218.0 HP)
Shovel capacity	2.40 - 3.00 m³

Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice, errors excepted. 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.

Operation weight:  
13,800 kg

Power:  
160 kW (218 PS)

Shovel capacity:  
2,4 m³



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

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

weycor is an ATLAS WEYHAUSEN GMBH brand.

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**weycor**  
BY ATLAS WEYHAUSEN

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BY ATLAS WEYHAUSEN



# WEYCOR: POWERFUL, PRECISE, RELIABLE.

## AR 250<sup>e</sup>

### LATEST KINEMATICS TECHNOLOGY

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

### EASY MAINTENANCE

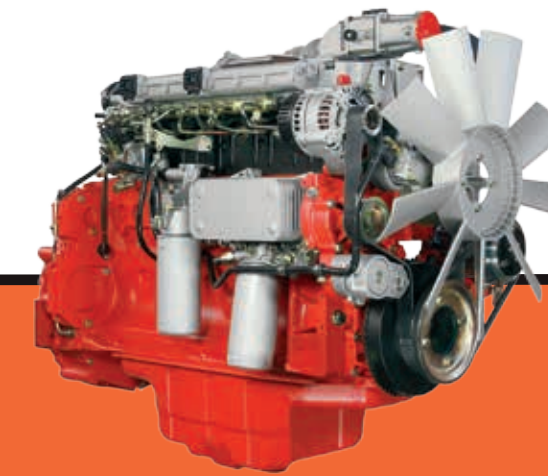
Low-maintenance and quick, easy servicing is achieved by central, consolidated, easy-to-reach service points

### COMFORTABLE CABIN

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

### 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.



### DEUTZ ENGINE TECHNOLOGY

**TCD 6.1 L6**  
Water-cooled 6-cylinder inline engine with turbocharging, charge air cooling and cooled external exhaust gas recirculation. Engine and exhaust aftertreatment (EAT) are adapted to an optimum efficiency of the total system and therefore ensure minimum fuel and total running costs. The powerful DEUTZ Common Rail (DCR®) injection system and the electronic engine control (EMR 4) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption. The engines meet the requirements of the EU Stage IV and US EPA Tier 4 with DVERT® selective catalytic reduction (SCR) and particulate filter (DPF). Through the use of the DPF they already comply with the EU Stage V emissions standard expected from 2019.

### TECHNICAL DATA

#### ENGINE

**Make** .....Deutz Diesel engine  
TCD 6.1 L4  
**Type** .....water cooled  
**Power\*\*\*** .....160 kW (218 HP)  
at 2000 min<sup>-1</sup>  
**Max. torque** .....900 Nm  
at 1,450 min<sup>-1</sup>  
**Stroke** .....6,057 cm<sup>3</sup>  
**Cylinders** .....6-in-line

#### ELECTRICAL SYSTEM

**Betriebsspannung** .....24 V  
**Batterie** .....24 V / 100 Ah  
**Generator** .....24 V / 100 A  
**Starter** .....24 V / 4 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 0-14 km/h  
High speed 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 spring-loaded brake acting on all 4 wheels. In case of standstill of engine the spring-loaded brake is automatically re-activated.

#### AXLES

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

#### STEERING

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

#### TIRES

**Standard:** 20,5 - 25 EM – Construction machine tires for relatively soft surface with high traction and good self-cleaning

Special tires upon request

#### HYDRAULIC SYSTEM

- Variable pump for loading and steering hydraulics
- Priority valve favoring steering hydraulics
- First and second hydraulic section serial
- Loading hydraulic hydraulically pre-activated by weycor joystick, including float position
- Operating pressure 280 bar, Delivery of pump 190 l/min

#### LOADING EQUIPMENT

- Powerful and solid Z-kinematics with high tear out force
- 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 4.0 s**
- Tipping 1.6 s**

#### FUEL/OIL CAPACITIES

Diesel.....250 Liter  
Hydraulic oil.....140 Liter  
Engine oil .....16 Liter  
Front axle .....19.2 Liter  
Rear axle .....19.2 Liter  
Gear oil .....3.5 Liter  
Cooling liquid.....35 Liter  
AdBlue .....20 Liter

### STANDARD EQUIPMENT

#### INCLUSIVE

- 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 water heating with heat exchange and 4-stage fan
- Front windscreen ventilation, variable output
- Sound absorbing ROPS cab
- Working lights front and rear
- Windscreen wipe and wash unit in front and rear
- Sun visor, coat hook, ceiling lamp, stow facility
- Adjustable steering column
- Heat protection glazing with large tinted screens
- Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake and air filter
- Central dashboard with indicators for preheating, engine temperature, fuel, working hour meter

### OPTIONS

#### TECHNICAL OPTIONS

- Stability damping system
- Speed limit 20 km/h
- Trailer coupling
- Main battery switch
- Corrosion prevention against salt
- Special paintings and oils
- Joystick with integrated proportional steering for 3rd section
- Warning beacon
- Heatable and air cushioned seats
- Climate control unit
- Radio
- Door with sliding windows
- 3. and 4. section
- SWE acc. to ISO 23727

More options upon request

### OPTIONAL 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

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

### SEPARATE INCHING PEDAL

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

### NEGATIVE BRAKE

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

