

# ATLAS

## WHEELED EXCAVATORS

7 MODELS · 14 - 23 TONS



**STABLE. STRONG. STEADY.**



[WWW.ATLASGMBH.COM](http://WWW.ATLASGMBH.COM)

**ATLAS**

# **ATLAS – CONSTRUCTION MACHINERY MANUFACTURER WITH TRADITION**

## **From person to person**

When Hinrich Weyhausen started selling construction and agricultural machinery in 1919 he discovered that the machines that his customers actually needed were not available. So he listened to them carefully and went about building the machines himself – exactly according to the requirements of the people who used his machines every day. He carried out pioneering work with a passion under the brand name of Atlas. His focus was always on the benefit of the machines. And nothing has changed for us in terms of this ideal today.



**Atlas will make you strong  
with excellent products and  
a comprehensive service.**



With highly motivated employees, a great deal of commitment and expertise ATLAS Maschinen GmbH develops successful crane & excavator technologies. Numerous customers, engineers and experts all around the globe have made their contribution. The result is robust equipment to enable you to work more effectively and safer than ever before.

As our know-how grew, so too did our dealer and service network worldwide.

We can hence guarantee – in those days and today too – that we will always be on the spot when you need us.



Atlas manufactures a wide range of equipment for the construction, railroad, material handling and infrastructure industries. You will find more information on Atlas under [www.atlasgmbh.com](http://www.atlasgmbh.com).

## CONSTRUCTION



## TRANSPORT



## INFRASTRUCTURE



## RECYCLING



# CUSTOMER SATISFACTION IS OUR PRIORITY!

## WE ARE COMMITTED

to providing our customers with highest quality products and services.

## QUALITY STANDARDS AND CUSTOMER SATISFACTION

are measured in terms of service performance, reliability, relevance and timeliness.

## OUR COMPANY'S MISSION, GOALS AND OBJECTIVES

are directed towards ongoing process improvement as a basis for strengthening our competitive position and for improving product quality and service standards.

## QUALITY STANDARDS AND CUSTOMER SATISFACTION

will be measured in terms of product performance and reliability.

## ATLAS SERIES

# UNCOMPROMISINGLY BUILT FOR HIGH PERFORMANCE

**Particularly effective boom design**  
Extremely light and enormously  
robust booms.



### Functional and spacious cab

The Design is adapted to your needs.



### Standard air climate control



### Durable and comfortable

New Atlas driver seat.



**Intelligent hydraulics** - For more productivity and perfect controls.

- Our intelligent hydraulics management enables load-independent overlapping of working motions.
- A sensitive hydraulics system perfectly attuned to all work processes.



### Ideal weight distribution

- Fast turnover and fatigue-free work.
- Perfect weight adjustment by a transversely installed engine.
- Through the optimal positioning of the upper structure, we achieve very high lifting capacities and very good digging depths.



**New TIER 4i engines** - Dynamic performance, low fuel consumption, lower exhaust emissions and little need for servicing – ready for the most extreme work conditions.



**Atlas builds its wheeled excavators especially for the hardest construction sites. The result is the robust machines to withstand the worst possible working conditions.**

**High-strength materials, high productivity and cost-effectiveness - save time and money for future.**



**New quieter exhaust system**  
Covering EURO III B / US EPA Tier 4i emission.



**Always secured** - New camera system with 5.6" interior color monitor.



**Improved air intake** to optimize engine work.



**New attractive counterweight design and better weight distribution.**

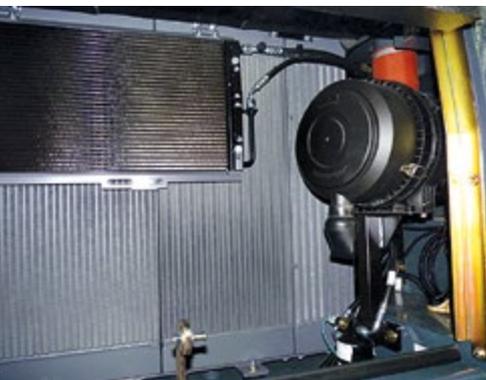


**New „LED“ rear lights** for better visibility.

## THE ENGINE

# NEW TIER4i ENGINES

Range of performance depending on  
the wheeled excavator:  
80-129kW at 1800 rpm  
4 or 6 cylinder diesel engines



### GOOD FOR THE ENVIRONMENT

- DEUTZ TCD 4.1, DEUTZ TCD 6.1 and CUMMINS QSB 6.7 ENGINES – All engines which meet the EU Stage III B / US EPA Tier 4i emissions standards.
- Engines benefit from an exhaust-gas after treatment system with a sealed diesel particulate filter and regeneration achieved either by combustion or controlled air throttling.

### GOOD FOR YOUR WORK:

- Fuel savings of up to and even above 5 % compared with Tier 3 stage.
- Lower emissions – better performance.
- DEUTZ TCD 6.1 promises a performance enhanced by up to 25 % compared with its predecessor. This 6-cylinder in-line engine, with its turbocharger and charge air cooler and electronically controlled DEUTZ common-rail (DCR®) high pressure injection system, boasts outstanding economic efficiency, long engine life and extended service intervals.
- Compact design and enormous power density at very low engine speeds.
- Long service life.

### GOOD FOR YOUR COMFORT AND FOR YOUR NERVES

- Particularly quiet engine.
- Low maintenance costs, easily accessible maintenance points.
- A large selection of replacements parts allows fast and inexpensive service.
- Engine controller that supplies the display with operating and service data.

## THE HYDRAULICS

# INTELLIGENT HYDRAULICS FOR MORE PRODUCTIVITY



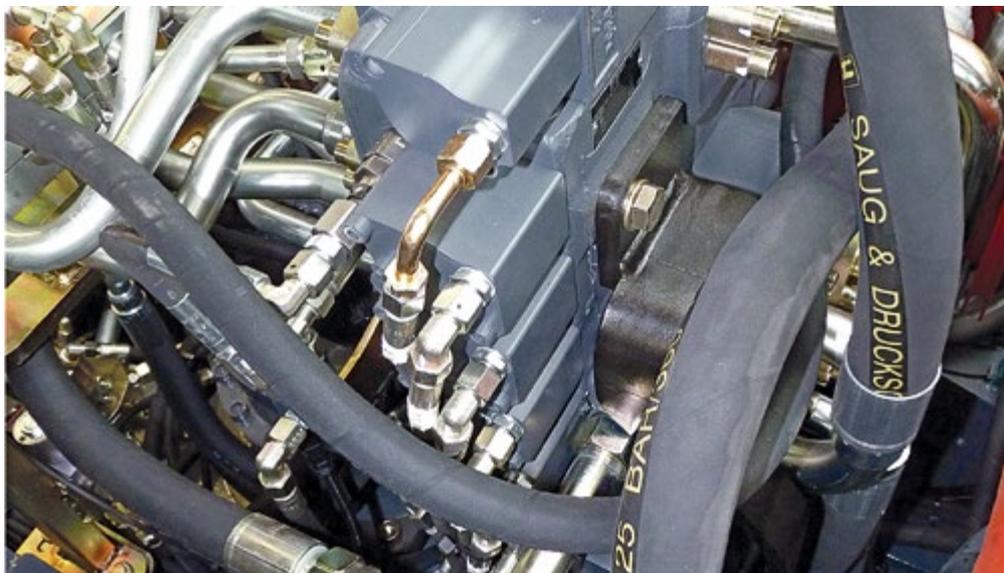
**Our hydraulics system optimises your work.  
It thinks with you.**

### MORE COST EFFECTIVENESS

- The right amount of power at the right time.
- Fast working cycles.
- Large bucket capacity.
- Maximum breakout and ripping forces.
- You adjust the machine's mode of operation to meet your exact needs using our load-sensing system.

### MORE SECURITY

- Primary and secondary protection from overloads.
- Prefill valves for all work functions.
- Load-retaining and fine lowering valves and the brake valve.
- Protect you just as much as the hose-rupture safety device for the lifting cylinder.
- The emergency steering and the accumulator for the emergency lowering of the boom system.



## THE CAB

# YOU CAN REALLY SEE WHAT YOU'RE DOING



### THE CAB WITH MORE VIEW

Our extra-large cab gives you excellent all-round visibility. The interior is glare-free. The narrow steering column means that the view of the attachment and load is not obstructed. The front windscreen can be pushed under the roof of the cab. The particularly large area of windscreen wiper coverage and the defrost function for rapid demisting and de-icing of the windscreen. With heat-insulating glass, sun blind and air conditioning fitted as standard. Driver's air-suspended seat with heating for best comfort (as option).



### GIVING YOU A HANDLE ON EVERYTHING

All steering components are positioned clearly and concisely and directly within the driver's reach for the best possible operating comfort.



Always in best music atmosphere due to the USB.

# CONTROL / MONITORING INFORMATION AT EXACTLY THE RIGHT TIME

## ALWAYS THERE FOR YOU

A primary task of the AEM system is to ensure perfect coordination of engine and hydraulic pumps, giving you maximum performance at stable diesel engine revolutions all the time – for highest productivity with lowest possible fuel consumption.

## Operating modes – guaranteeing just the right performance

The AEM system has three pre-programmed operating modes ready for you: Fine, Eco and Power. Put the machine in the perfect “starting state” at the touch of a button. Engine and hydraulic output are directly adjusted to the actual operating situation. The operating mode can also be adjusted manually.

## Advanced driving features fitted as standard

Automatic throttle control and cruise control are standard features. The direction of travel is pre-set by means of a switch in the right pilot control lever. So that you are safe and comfortable even on longer journeys.

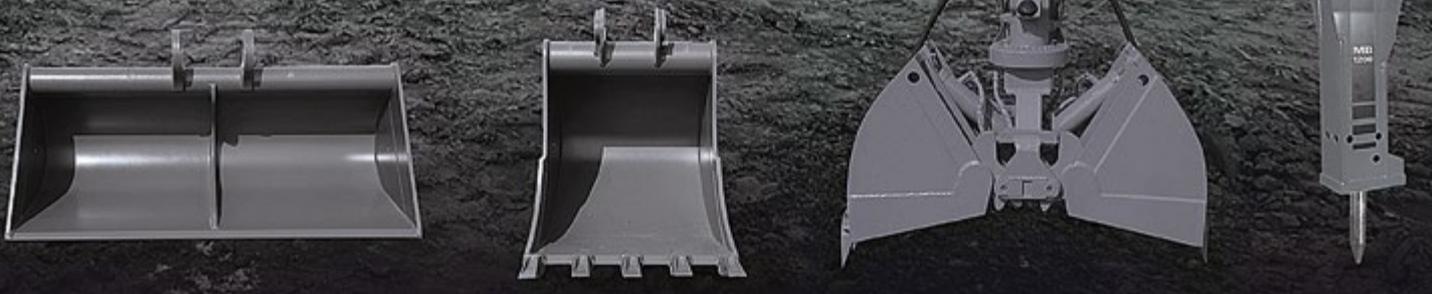
## Faster changing of attachments

Optional: There are ten different operating modes available for the use of different attachments. At the push of a button, pre-select the weight and the quantity that your attachment is working with – this saves you time-consuming readjustment of the hydraulics after retooling.



## ATTACHMENTS

# DO GREAT THINGS WITH THE RIGHT ATTACHMENT



### THE BUCKETS

All especially well worn parts are made of high-strength, hardened and tempered fine grained steel. We also have different teeth shapes for different types of ground.

### THE GRABS

The right grab for any job – the multifaceted palette includes devices with single or multiple cylinders as well as double or multiple shell models. All grab types are designed for maximum closing pressure and excellent filling performance. The grab rotating hydraulics are standard.

### OTHER ATTACHMENTS

All especially well worn parts are made of high-strength, hardened and tempered fine grained steel. We also have different teeth shapes for different types of ground.

### THE GREATEST FLEXIBILITY – QUICK ATTACH SYSTEMS

Our quick attach systems give you the highest flexibility when selecting the required attachment. The simple and robust design of our mechanical and hydraulic quick attach system helps you retool with the least amount of effort in the shortest possible period of time.

## BOOMS AND STICKS

# IMPRESSIVE POWER DEVELOPMENT AS A RESULT OF THE BEST EQUIPMENT

All components are designed for high lifting capacity, optimum handling curves and fast working movements. The welding procedures we use give our booms design advantages, making them lighter with no loss of robustness. High-stress zones have been additionally reinforced for safety.

## WIDE SELECTION – OUR BOOMS AND STICKS

Lifting capacities, ranges, breakout and ripping forces can be adjusted for the specific task through a wide selection of boom/stick combinations.

## LONG-LIFE CYLINDERS

Every cylinder is designed for maximum power, taking the size of the machine into account. The high level of buckle resistance, the high-quality surface finish of the piston rod and special sealing systems all contribute to long service life.

The end-position dampening when lifting, articulating the boom and curling the bucket avoids hard shocks – resulting in less stress for driver and machine.



## THE UNDERCARRIAGE

# NOTHING CAN STOP IT

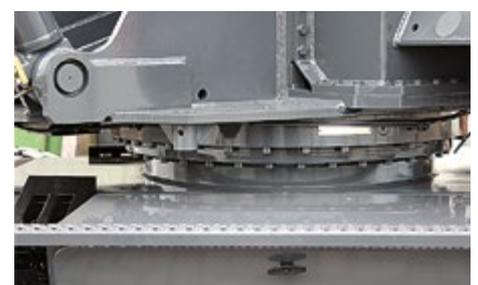


## THE RIGHT CHASSIS FOR ANY JOB

The chassis design lets you choose:  
You can tailor the undercarriage for your specific needs from different versions of stabilizer/outrigger supports and dozer blades.

Our dozer blade is well suited for bull-dozing work thanks to the parallel kinematics and the special shape of the blade. Our stabilizers ensure low ground pressure with maximum stability.

The welded main frame ensures very good stability and torsional stiffness.



# QUICKLY, EASILY AND SAFELY



## TRANSMISSION BRINGS YOU QUICKLY AND SAFELY TO YOUR DESTINATION

Whether crawling speed or top speed – whether 1 km/h or 30 km/h (with high-speed option): with our power-shift transmission, you determine the speed.

The road holding and the excellent driving properties of ATLAS series are impressive even for fast on-road driving.

The chassis has robust, specially designed excavator axles with planetary drives in all 4 wheel hubs. All-wheel drive, a variable displacement motor and a double-action brake valve are standard.



## WE PLAY IT SAFE HERE

The steering axle has an automatic oscillating axle lock in order to safely drive the machine in any area even with heavy loads.

You decide whether the lock comes on automatically during braking or whether it is activated manually.

## OTHER SAFETY ASPECTS

- Brake: wet, maintenance-free disc brakes
- Very good emergency steering property

## SERVICE AND MAINTENANCE

# SIMPLE, FAST, RELIABLE

**We know your time is valuable. So all maintenance terms have just one objective: to be as quick and easy as possible.**

### Designed for ease of service

All the lubrication points for the ring gear and boom equipment have been combined. For oil monitoring all the main components are directly visible and, like the battery, easily accessible.

### Expert service partners

Our dealers' customer service staff undergo intensive technical training at our works, so that they can provide you with expert advice whenever you need it.



### Long service life

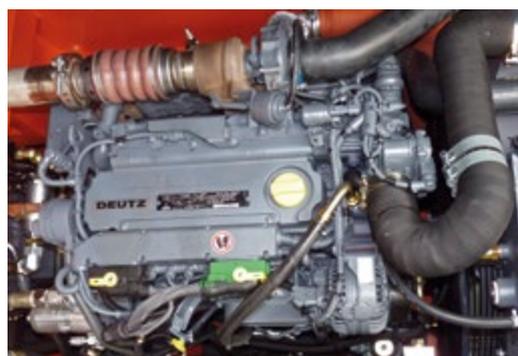
Your Atlas wheeled excavator has a long service life. Please make sure that servicing intervals are adhered to and original spare parts are used.

### All the support you need

Our AEM system provides you with reliable maintenance assistance. The AEM system can be easily viewed and configured by connecting a laptop to the diagnostic port in the cab.

### The hydraulic oil filter

The special process which we have adopted enables the filter basket to be repeatedly reused. This is good for the environment and significantly reduces the costs of disposal.



# TECHNICAL DATA

	MODEL	Operating weight (kg)	Engine power kW (HP)	Max. Digging depth (m)
				
	<b>140W</b>	up to 15,700	80 (109)	5.5
	<b>150W</b>	up to 17,500	95 (130)	5.7
	<b>160W</b>	up to 18,200	105 (143)	5.7
	<b>160Wsr</b>	up to 16,500	95 (130)	6.7
	<b>180Wsr</b>	up to 21,000	115 (157)	7.1
	<b>190W</b>	up to 20,800	116 (158)	6.71
	<b>220W</b>	up to 22,600	129 (175)	6.5

# ATLAS WHEELED EXCAVATORS

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