ATLAS
MATERIAL HANDLING MACHINES
11 MODELS - 16-95 TONS

STRONG. RELIABLE. MULTIFUNCTIONAL.

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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 and material handling 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.

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.
The right stuff – for more than sixty years.

• We can speed up your business.

• With eleven models from 16 to 95 t operating weight and a wide range of equipment options we have just the right machine.

• Whether you need it for recycling or for scrap handling, for timber, ship unloading or other bulk goods – for over 60 years we have been building material handling machines for your exact requirements.

Save time and achieve maximum output every day at low costs per tonne with handling machines by Atlas: with the perfect short working cycles.

• Operation: fast and responsive.

• Safety, stable and steady due to generously sized undercarriage, torsion-resistant superstructure, strong boom and stable, elevatable cab.

• Quality: Made in Germany for a long service life. Our steel components and hydraulic systems make for power and performance in daily use.

Our material handling machines are known for their high-strength materials, high productivity and cost-effectiveness. This means that Atlas handling machines retain their value. With a range of equipment designed for every purpose and our excellent customer service, any task can be readily mastered.
Particularly effective boom design
Extremely light and enormously robust booms

Elevatable - LIFT or VARIO cabine or fixed level cabine for best visibility

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

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New TIER4 engines - Dynamic performance, low fuel consumption, lower exhaust emissions and little need for servicing – ready for the most extreme work conditions.

Atlas builds its material handling machines especially for the hardest working 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 EU Stage III B / US EPA Tier 4 Interim emissions standards

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 TIER 4i ENGINES

GOOD FOR THE ENVIRONMENT:

• DEUTZ TCD 4.1 L4, DEUTZ TCD 6.1 L6, CUMMINS QSB 6.7 and AGCO SISU POWER 84 AWI – All engines which meet the EU Stage III B / US EPA Tier 4 Interim emissions standards.

• DEUTZ engines: The engines meet the requirements of the EU Stage III B and US EPA Tier 4 interim with DVERT® particulate filter (DPF). Additionally for EU Stage IV / US Tier 4 with SCR (Selective Catalytic Reduction).

• CUMMINS engines: The QSB6.7 achieves these very low emission standards by using cooled Exhaust Gas Recirculation (EGR) and Cummins Particulate Filter. Both systems have been specifically developed for industrial applications delivering premium performance and durability you can depend on.

• AGCO SISU POWER engine (ATLAS 800MH): The SCR process (Selective Catalytic Reduction), along with 4th generation SisuTronic engine management, allows AGCO SISU POWER diesel engines to reach highly efficient combustion and minimize particulate emissions.

GOOD FOR YOUR WORK:

• Water-cooled 4 or 6-cylinder inline engines 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.

• Improved CUMMINS High Pressure Common Rail (HPCR) fuel system enabling cleaner and more efficient combustion resulting in an up to 5 percent better fuel efficiency without compromising performance.

• The AGSO SISU POWER engine has Up to 10 % improvement in fuel economy and is highly tolerant to low quality fuel - High durability in all market areas.

• Enormous power density at very low engine speeds and compact design.

• In summary for Tier 4 Stage: Fuel savings of up and more than 10 percent compared with Tier 3 Stage, combined with lowered exhaust emissions and better performance.
SUPERSTRUCTURE - HIGHLIGHTS... ENGINE... AND MAINTENANCE

POWER

Turbo-charged engines provide fast and powerful motions, fast cycle times and dynamic development in performance.

GOOD FOR YOUR COMFORT AND FOR YOUR NERVES

- Long oil change intervals and easy changing of the engine fluids reduce the running costs and increase the availability of the machinery.

- Engine controller that supplies the display with operating and service data.

- Particularly quiet engine.

- Efficient spare parts logistics and easy installation.

- Lowest Cost Of Operation - Reduced maintenance, long service intervals and the best fuel efficiency of any engine in its class add up to superior lifetime value.

HYDRAULIC SYSTEM by Linde in 350MH

PRECISION CONTROL

- Some of the material handling machines are fitted with well-proven load-sensing hydraulics. Our intelligent hydraulic management system allows simultaneous movements to be carried out irrespective of load. For more productivity and safe operations.

- The power you need, at the right time. For fast cycles or high lifting capacity: our load-sensing system attunes the method of operation of the material handling machine exactly to your application. For greater economy – you save fuel and maintenance costs.

WHAT YOU SHOULD ALSO TO KNOW

- Automatic oscillating axle lock – you decide whether the lock is automatically activated by the brakes or is applied manually.

- Primary and secondary overload protection.

- Prefill valves for all operating functions, load-holding and precision lowering valves and travel brake valve.

- Hose-rupture protection device for lift cylinder.
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 seat heating for best comfort (as option).

MADE WITH GENEROSITY

• Generously sized steps.
• Well-positioned grabrail.
• Large cab door.
• Ergonomically sized handholds.

The result of the extensive sound insulation is the sound pressure level in the cab is very low. The elastic bedding of the operator’s cab on the superstructure ensures a low-vibration working environment.

TAKE YOUR SEAT

The air-cushioned operator’s seat can be adjusted to the height and weight of the operator. For a relaxed sitting position the backrest, lumbar support and seat cushion length and angle are all adjustable – independently of the control console.

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.

The two control levers are ergonomically shaped and operate with short, precise movements. Large buttons enable oscillating axe lock, operating modes and many other functions to be activated at the touch of a finger for ultra-convenient operation.

Always in best music atmosphere due to the USB.
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.

PROTECTED AND SAFE – ALL TOGETHER HIGH ABOVE THE WORKING SITE
- Cabine protection features.
- LIFT and VARIO CABINE- systems to ensure perfect visibility and safety.
- Built for top performance with no compromise on quality.
ADJUSTABLE BOOM

The three-part adjustable boom is ideal for indoor work. Our variable adjustable booms, which can be extended and retracted hydraulically, provide for loading and reaching at great height. The third boom element enables the machine to work very flexibly in confined spaces.

MONOBLOCK BOOM

Upon request we can supply a monoblock boom for most models if you wish to attach scrap shears directly to the main boom.

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.
BOOMS AND STICKS

IMPRESSION 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 large selection of booms and arms enables you to adapt the machine to the precise task you need it to do: feeding shears and shredders, feeding sorting lines indoors and loading or unloading ships.

THE INDUSTRIAL BOOM

You need look no further than the Atlas standard program for suitable solutions for recycling, scrap metal handling and port handling. 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. All hydraulic lines use galvanized and abrasion-resistant steel pipes. For all models the main boom and jib are designed for heavy lifting work. The kinematics ensure optimum load transfer – from the load at the tip of the jib via the machine to the outrigger pads.

TWO-PART INDUSTRIAL BOOM WITH CRANKED JIB

For pivot-mounted attachments the tip of the jib is curved, thus ensuring that the grab does not collide with the underside of the jib in steep positions.

TWO-PART JIB WITH STRAIGHT JIB AND BUCKET TIPPING CYLINDER

For attachments with fixed mounting, such as sorting grabs, the straight version of the jib tip is supplied. An additional hydraulic cylinder is mounted on the jib; the sorting grab is operated via this cylinder by means of a separate hydraulic circuit.
ATTACHMENTS

DO GREAT THINGS WITH THE RIGHT ATTACHMENT

Manufacture of both our standard and special attachments takes account of state-of-the-art developments in machine building and steel engineering. High-strength steels, proven technology and decades of experience result in work that is cost-effective and practice-based.

THE GRABS

The right grab for every task – the diverse palette includes clamshell and cactus grabs, sorting grabs, timber grabs and magnet plates.
We supply cactus grabs with four or five tines in open, half-closed and closed versions.
All grab types are designed for maximum closing pressure and excellent filling performance.

TRIED AND TESTED

• Cactus grabs from 275 to 1400 litres.
• One or two torque motors for grab turning.
• Grab rotating via rim gear.
• Tines and tooth tips of wear-resistant steel.
• Grab cylinders well protected.
• Grab-rotating hydraulics as standard.
• Swing brake for grab rotating system fitted as standard.

OTHER ATTACHMENTS

As additional attachments we can offer special grabs for bulk goods, magnet plates and load hooks.
THE UNDERCARRIAGE

NOTHING CAN STOP IT

Built for peak performance – Refusal to compromise.

STABLE. FAST. SAFE.

Stability – fast materials handling and fatigue-free operation.

THE UNDERCARRIAGE

The robust undercarriage consists of a torsion-resistant main frame and a large ring gear. Equipped with strong, claw-type outriggers, the Atlas material handling machines are well-known for their excellent stability.

TRANVERSELY INSTALLED ENGINE

Thanks to the carefully designed positioning of the superstructure on the undercarriage and the torsion-resistant outrigger system we achieve very high lifting capacities. The drive unit and counterweight are positioned to achieve the optimum centre of gravity. The centrally positioned boom linkage on the superstructure makes for ideal load transfer to the undercarriage.

TRAVELLING STABILITY

Stability is ensured in travel mode, too, thanks to the two heavy-duty axles with planetary transmission in all four wheel hubs. Moreover, our machines are fitted with all-wheel drive, power shift transmission, control traction motor and a double-action travel brake valve as standard.
Recycling & Scrap

Dust, Dirt, Confined Space

Sounds like a special job. For recycling specialists who want to carry out daily sorting and handling work in record time. Those who aim at peak performance in this field need powerful backup.

Particularly good for recycling:

- Undercarriage can be configured for your exact requirements: with 4 outriggers for excellent stability and high lifting capacity; with 2 outriggers and dozer blade for yard cleaning and high log stacking.
- Large selection of boom options, some specifically for indoor work: industrial boom, industrial boom for sorting grab, adjustable boom.
- Main boom and jib cutoff optional.
- Elevatable cab or fixed high-level cab.
- Cab with pressurized ventilation for work in contaminated areas (as option).
- Reversible fan, cyclone filter and smoke particle filter optional.
IF YOU NEED TO MOVE MOUNTAINS

Have you got mountains of work? Very good. The job is quickly done with the best material handling technology available.

Particularly good for scrap metal:

- Stable undercarriage with fixed pads.
- Sorting, cutting scrap, demolition or transfer: you can use the right attachment for every task.
- With reaches ranging from 8.4 to 24.1 metres you can unload an ocean-going ship just as easily as a small trailer.
- Cab protection system (as option).
FULL STEAM AHEAD

Get your cargo handling moving.
In times of rapid growth in the transport sector you need handling equipment with which you can work fast.

Particularly good for port use:

• Low costs per tonne thanks to fast and responsive operation and low-maintenance processing.
• High handling capacity thanks to enormous lifting power.
• Arm construction specially designed to clear ships’ sides.
• Cab system with Vario cab.
• Can be supplied with pylon upon request.
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 material handling machine 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

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AVAILABLE & COST-EFFECTIVE