# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATLAS GROUP</td>
<td>4</td>
</tr>
<tr>
<td>WHEELED EXCAVATORS</td>
<td>9</td>
</tr>
<tr>
<td>CRAWLER EXCAVATORS</td>
<td>17</td>
</tr>
<tr>
<td>MATERIAL HANDLING MACHINES</td>
<td>23</td>
</tr>
<tr>
<td>RAIL-ROAD EXCAVATORS</td>
<td>29</td>
</tr>
<tr>
<td>HEAVY WHEEL LOADERS</td>
<td>37</td>
</tr>
<tr>
<td>LOADER CRANES</td>
<td>43</td>
</tr>
<tr>
<td>ATLAS CRANES UK Ltd</td>
<td>47</td>
</tr>
<tr>
<td>ATLAS AND THE MILITARY</td>
<td>49</td>
</tr>
<tr>
<td>EKA SUPER COMPACT</td>
<td>53</td>
</tr>
<tr>
<td>TUNNELING AND MINING EQUIPMENT,</td>
<td>59</td>
</tr>
<tr>
<td>SPECIAL MACHINERY</td>
<td></td>
</tr>
<tr>
<td>S20 SHAFT EXCAVATORS</td>
<td>67</td>
</tr>
<tr>
<td>ATLAS SPARE PARTS</td>
<td>71</td>
</tr>
</tbody>
</table>
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 GmbH develops successful crane, excavator, material handling and crawler 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.

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 are measured in terms of product performance and reliability.
CRAWLER EXCAVATORS
Operating Weight: from 18,000 up to 40,000 kg

RAIL-ROAD EXCAVATORS
Operating Weight: from 20,000 up to 22,000 kg

WHEELED EXCAVATORS
Operating Weight: from 14,000 up to 23,000 kg

MATERIAL HANDLING MACHINES
Operating Weight: from 16,000 up to 59,200 kg

HEAVY WHEEL LOADERS
ATLAS Heavy Wheel Loaders combine compact dimensions with impressive productivity for outstanding value. Their strengths really come to the fore in applications including earth moving, road construction, recycling, wood processing, agriculture and certain areas of the alternative energy industry.
MEDIUM CRANES
from 88 to 240 kNm
Fitted with state-of-the-art technology and as reliable as a simple lifting pulley - this is what distinguishes our cranes for trucks from 7.5 to 22 tons. Achieving the highest degree of precision through great sensitivity. Fitted with LM+ technology for increased output up to 18%.

LARGE CRANES
from 250 to 620 kNm
Load. Precision. Reach.
Do you want maximum lifting capacity and reach? Welcome to the best productivity class, especially for trucks weighing more than 24 tons. Special features include a load sensing system (optional), twin slewing gear, continuous slewing gear and a wide range of fittings such as fly jib or winches. These cranes are faster in operation than comparable cranes with the same lifting capacity.
- Building material
- Container logistics
- Lifting logistics
- Assembly work

SMALL CRANES
from 11 to 75 kNm
In operation our smallest cranes are the greatest: low dead weight, easy to use and quick to mount. They have been specially constructed for small trucks.
- Landscaping
- Delivery
- Municipalities
- Material handling
- Building material

Atlas offers cranes with optimized technology and equipment.
- Landscaping
- Delivery
- Municipalities
- Material handling
- Building material

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- Building material

Atlas offers cranes with optimized technology and equipment.
- Landscaping
- Delivery
- Municipalities
- Material handling
- Building material
EKA Limited was formed to specifically focus in the area of military recovery equipment and has continued to concentrate in this specialized sector for over 30 years. EKA personnel have long-term experience working within the heavy truck and military recovery sectors and that knowledge, of both equipment and task, is integrated into the equipment EKA design and supply.

ATLAS AND THE MILITARY

- Over 2,500 cranes and excavators supplied since 1968
- Design, manufacture, fitting, service and support direct from one source
- In-depth knowledge, advice and technical expertise from a dedicated team
- Crane and component refurbishment from specially designed workshops
- Product excellence, performance and reliability from the industry experts
- Nationwide service and support network

EKA RECOVERY – SuperCompact

SCHAEFF

With more than 50 years of experience in tunnelling attachments and special machines technology, SCHAEFF has the specialist knowledge to deliver high quality machines for a wide range of applications.

- Tunnel heading machines
- Tunnel excavators
- Mucking and loading machines
- Rail ballast loading machines
- Electric and special excavators
- Special machines
- Hydraulic rotary cutters

SHAFT EXCAVATOR

The excavator unit is fitted with a first slewing gear which can be turned 2x90° and a second swing assembly which can be turned the full 360° to enable precise positioning to empty the dipper in the transport bucket area.

CYLINDERS, ATTACHMENTS, STEEL FABRICATIONS, MACHINING, PAINTING, BLASTING
ATLAS

WHEELED EXCAVATORS

9 MODELS · 14-23 TONS

STABLE. STRONG. STEADY.
Intelligent load independent hydraulics
Excellent view
Comfort
Safety light for climbing

HIGH PERFORMANCE
Improved cooling

Always secured

Optimized undercarriage

Better visibility

Dynamic performance
Low fuel consumption
Lower exhaust emissions
Easily accessible AdBlue® tank

Quiet and efficient exhaust system

Perfect weight distribution

Large slew-ring
Easy to service

New extended undercarriage (2.6 m) for stable driving

Hose and cylinder protection (Option)

Hydraulic axle lock

Brake hoses protection

• Light
• Articulate
• Robust
• High lifting capacity

HIGH PERFORMANCE

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GOOD FOR THE ENVIRONMENT

- DEUTZ TCD 4.1/6.1 and CUMMINS QSB 6.7 meet the EU Stage IV/US EPA Tier 4 Final emissions standards.
- DPF filter for particle reduction (Deutz engine).
- SCR filter for reducing NOx.

GOOD FOR YOUR WORK AND COMFORT

- Fuel saving.
- Lower emissions - better performance.
- Compact design.
- Long service life.
- Particularly quiet engine.
- Low maintenance costs.
- Fast and inexpensive service.

BREAK PROTECTION

- Optimized pipes and hoses layout.
- Smaller installation size.
- Reduced noise levels.
- Sensitive lower function.

COST EFFECTIVENESS

- Power at the right time.
- Fast working cycles.
- Large bucket capacity.
- Maximum breakout and ripping forces.
- Operator friendly.
CONTROL / MONITORING

INFORMATION AT EXACTLY THE RIGHT TIME

- AEM SYSTEM
- MULTI-FUNCTION SCREEN
- PRE-PROGRAMMED MODES: FINE, ECO AND POWER MODE
- 360° PANORAMA VIEW CAMERA (OPTION)
- CRUISE CONTROL

TELEMATIC FOR SAFETY AND SERVICE

- ANTI-THEFT PROTECTION
- PRODUCTIVITY AND PERFORMANCE
- ACCURATE CALCULATION
- COMPLETE OVERVIEW
- ACCESSIBLE ANYWHERE
- ENGINE AND EXCAVATOR PARAMETERS
- LIVE GPS TRACKING
- FUEL CONSUMPTION AND SERVICE INTERVALS
- AND MORE ...
## PRODUCT RANGE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Operating weight (kg)</th>
<th>Engine power kW (HP)</th>
<th>Max. Digging depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>140W</td>
<td>13 800 - 15 700</td>
<td>90 (121)</td>
<td>5.5</td>
</tr>
<tr>
<td>150W</td>
<td>15 600 - 17 300</td>
<td>95 (130)</td>
<td>5.7</td>
</tr>
<tr>
<td>160W</td>
<td>16 000 - 17 800</td>
<td>105 (143)</td>
<td>5.7</td>
</tr>
<tr>
<td>160Wsr</td>
<td>16 000 - 19 500</td>
<td>95 (130)</td>
<td>6.7</td>
</tr>
<tr>
<td>165Wsr</td>
<td>16 200 - 18 500</td>
<td>105 (143)</td>
<td>5.65</td>
</tr>
<tr>
<td>175Wsr</td>
<td>16 100 – 18 600</td>
<td>115 (156)</td>
<td>5.65</td>
</tr>
<tr>
<td>180Wsr</td>
<td>17 500 - 21 000</td>
<td>115 (156)</td>
<td>7.1</td>
</tr>
<tr>
<td>190W</td>
<td>18 900 - 20 800</td>
<td>116 (158)</td>
<td>6.71</td>
</tr>
<tr>
<td>220W</td>
<td>22 000 - 22 600</td>
<td>129 (175)</td>
<td>6.5</td>
</tr>
</tbody>
</table>
CRAWLER EXCAVATORS

8 MODELS - 18–40 TONS

ROBUST. PRECISE. EFFICIENT.
EXCELLENT
CONTROL & VISIBILITY

PARTICULARLY EFFECTIVE
BOOM DESIGN
Extremely light and enormously robust booms

ELEVATABLE LIFT OR VARIO CABIN OR FIXED LEVEL CABIN FOR BEST VISIBILITY

FUNCTIONAL AND SPACIOUS CAB
The Design is adapted to your needs.

DURABLE AND COMFORTABLE
New Atlas driver seat

STANDARD AIR CLIMATE CONTROL

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.

AVAILABLE & COST-EFFECTIVE
NEW TIER 4 FINAL
Dynamic performance, low fuel consumption, lower exhaust emissions and little need for servicing – ready for the most extreme work conditions.

Atlas builds its crawler excavators 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 in the future.

NEW QUIETER EXHAUST SYSTEM
Covering EU Stage IV / US EPA Tier 4

ALWAYS SECURED — New camera system with integrated TFT monitor

IMPROVED AIR INTAKE
to optimize engine work.

NEW ATTRACTIVE COUNTERWEIGHT
Design and better weight distribution

LIFT AND VARIO CABINE – SYSTEMS
to ensure perfect visibility and safety.
THE ENGINE

TIER 4 FINAL ENGINE

GOOD FOR THE ENVIRONMENT:

- **DEUTZ TCD 4.1 L4, DEUTZ TCD 6.1 L6**
  All engines which meet the EU Stage IV / US EPA Tier 4 emissions standards with DVERT® particulate filter (DPF/SCR).

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

GOOD FOR YOUR WORK:

- Water-cooled 6-cylinder diesel engines with turbocharging, intercooler 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.
- 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.

RANGE OF PERFORMANCE DEPENDING ON THE CRAWLER EXCAVATOR: 80—180KW AT 1800 RPM 4 OR 6 CYLINDER DIESEL ENGINES
POWER

TURBO-CHARGED ENGINES PROVIDE FAST AND POWERFUL MOTIONS, FAST CYCLE TIMES AND DYNAMIC POWER DEVELOPMENT

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.

SO EASY
The engine offers extremely smooth running characteristics. Automatic idle is a standard feature.
Cold start assist gets you moving, even after the hardest frost.

SO QUIET
The engine is fitted with protection against vibrations and thus decoupled from the revolving superstructure.

SO CLEAN
In their field the engines already meet all requirements of the EU Stage IV / Tier 4.
# PRODUCT RANGE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Operating weight (kg)</th>
<th>Engine power kW (HP)</th>
<th>Max. dig depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>160LC</td>
<td>18,000</td>
<td>95 (130)</td>
<td>7.02</td>
</tr>
<tr>
<td>170LC</td>
<td>19,000</td>
<td>95 (130)</td>
<td>6.26</td>
</tr>
<tr>
<td>190LC</td>
<td>19,900</td>
<td>105 (143)</td>
<td>6.40</td>
</tr>
<tr>
<td>225LC</td>
<td>23,900</td>
<td>116 (158)</td>
<td>6.35</td>
</tr>
<tr>
<td>260LC</td>
<td>26,600</td>
<td>129 (175)</td>
<td>7.69</td>
</tr>
<tr>
<td>340LC</td>
<td>35,500</td>
<td>180 (245)</td>
<td>7.77</td>
</tr>
<tr>
<td>185LCsr</td>
<td>19,000</td>
<td>105 (143)</td>
<td>5.65</td>
</tr>
<tr>
<td>215LCsr</td>
<td>21,800</td>
<td>115 (156)</td>
<td>7.15</td>
</tr>
</tbody>
</table>
MATERIAL HANDLING MACHINES 13 MODELS - 16–59 TONS

STRONG. RELIABLE. MULTIFUNCTIONAL.
EXCELLENT CONTROL & VISIBILITY

Functional and spacious cab

The design is adapted to your needs.

Quiet and efficient exhaust system

• Dynamic performance
• Low fuel consumption
• Lower exhaust emissions

Decreased noise level

Perfect weight distribution

Practical accessibility

Cylinder protection

EXCELLENT CONTROL & VISIBILITY

AVAILABLE & COST-EFFECTIVE
Elevatable - LIFT or VARIO cabin or fixed level cabine for best visibility

- Optimized kinematics for the boom
- Optimized arms hydraulics
- Easily accessible AdBlue® tank
- Extended wheelbase
- Hydraulic axle lock

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GREEN POWER IS HERE

Electric engine total power:
- 170 kW (350MHE)
- 125 kW (250MHE)
- No CO₂ emissions
- Low noise
- Low generation of heat

Engine hood designed for better visibility

Cable reel

Control cabinet for E-Drive

Lockable master switch

AVAILABLE & COST-EFFECTIVE
The proven attachment tools can be used

Perfect control

Compressor unit for electric heating and climate control system

... and will save you money
## PRODUCT RANGE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Operating weight (kg)</th>
<th>Engine power kW (HP)</th>
<th>Max. Range (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>160MH</td>
<td>17,500</td>
<td>90 (112)</td>
<td>8.4</td>
</tr>
<tr>
<td>180MH</td>
<td>19,200</td>
<td>95 (130)</td>
<td>10.1</td>
</tr>
<tr>
<td>200MH</td>
<td>20,000</td>
<td>105 (143)</td>
<td>10.1</td>
</tr>
<tr>
<td>250MH</td>
<td>25,000</td>
<td>129 (175)</td>
<td>12.65</td>
</tr>
<tr>
<td>270MH</td>
<td>27,000</td>
<td>129 (175)</td>
<td>14.8</td>
</tr>
<tr>
<td>300MH</td>
<td>31,500</td>
<td>129 (175)</td>
<td>14.4</td>
</tr>
<tr>
<td>350MH</td>
<td>36,000</td>
<td>180 (245)</td>
<td>18.2</td>
</tr>
<tr>
<td>400MH</td>
<td>41,000</td>
<td>180 (245)</td>
<td>18.1</td>
</tr>
<tr>
<td>520MH</td>
<td>57,000</td>
<td>230 (313)</td>
<td>21.9</td>
</tr>
<tr>
<td>550MH</td>
<td>59,000</td>
<td>230 (313)</td>
<td>21.9</td>
</tr>
<tr>
<td>160MHE</td>
<td>17,500</td>
<td>90 (112)</td>
<td>8.4</td>
</tr>
<tr>
<td>250MHE</td>
<td>25,000</td>
<td>125</td>
<td>12.65</td>
</tr>
<tr>
<td>350MHE</td>
<td>36,000</td>
<td>170</td>
<td>18.20</td>
</tr>
</tbody>
</table>
RAIL-ROAD EXCAVATORS
FROM 17 TO 23 TONS

SAFE. POWERFUL. RELIABLE.
UNCOMPROMISINGLY BUILT FOR HIGH PERFORMANCE

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 Tier 4 Final engines — lower exhaust emissions

New quieter exhaust system covering new Euro 4 STAGE / US EPA TIER 4 Final emission standards with a sealed diesel particle filter.

New attractive counterweight design and better weight distribution

Always secured - new camera system with 5/6' interior monitor.

New "LED" rear lights for better visibility and safety
Intelligent hydraulics for more productivity and perfect controls. Load-independent overlapping of working motions.

Standard air-climate control system

Improved air intake to optimize engine’s work

Particularly effective boom design — extremely light and enormously robust booms

Ideal weight distribution, fatigue-free work and fast turnover

Functional and spacious cab design adapted to your needs
TECHNICAL SPECIFICATION 1404 ZW

MAIN DIMENSIONS
Base machine A41.5 – with 4 outriggers

TRAVEL CONFIGURATION WITH GRAB
Base machine A41.4 – without outriggers

WORKING EQUIPMENT:

<table>
<thead>
<tr>
<th>Base machine</th>
<th>Weight/kg</th>
<th>Standard equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>A41.4 Rail-Road hydraulic excavator 1404 ZW, without outriggers, tailswing 1575 mm</td>
<td>13600</td>
<td>Maintenance point for filtration system</td>
</tr>
<tr>
<td>A41.5 Rail-Road hydraulic excavator 1404 ZW, with 4 outriggers, tailswing 1575 mm</td>
<td>16000</td>
<td>Hydraulic system for grab and grab rotation function</td>
</tr>
<tr>
<td><strong>Additional and special equipment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B41.20 Heavy counterweight (5.3 t), tailswing 1575 mm</td>
<td>800</td>
<td>Tank indicator</td>
</tr>
<tr>
<td>B41.39 Additional hydraulic unit for variable boom cylinder</td>
<td>20</td>
<td>Battery main switch in negative lead.</td>
</tr>
<tr>
<td>B41.23 Two man fully glazed cab</td>
<td>300</td>
<td>“Travel” function via foot control</td>
</tr>
<tr>
<td><strong>Base section of arm and boom</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C53.41P Base arm with two lift cylinders and an internally mounted operating cylinder</td>
<td>1090</td>
<td>Accumulator for emergency lowering of boom system</td>
</tr>
<tr>
<td>C53.46 Boom with articulating cylinder only for base arm C53.41P</td>
<td>930</td>
<td>Sliding window in cab door</td>
</tr>
<tr>
<td><strong>Sticks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D41.22 Rail-road excavator stick, working length 2200 mm</td>
<td>490</td>
<td>Windshield washer system</td>
</tr>
<tr>
<td><strong>Bucket tipping cylinder</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F53.1 Bucket tipping cylinder with reversing linkage</td>
<td>165</td>
<td>Central lubrication (Option)</td>
</tr>
<tr>
<td><strong>Rail guidance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARSY (Computer assisted rail contact pressure system). Automatic system for regulating and monitoring the force of the rail guide wheels. The required pressures are automatically set, continuously monitored and adjusted if necessary. Depending on the pre-selected operating condition, each separate guidance bogie wheel is set to a different pressure in accordance with a prescribed schedule, locked or hydraulically trailed.</td>
<td></td>
<td>The front and rear bogie wheels can be independently switched to permit simple de-railing and positive crossing of rail points.</td>
</tr>
<tr>
<td>The front and rear bogie wheels can be independently switched to permit simple de-railing and positive crossing of rail points.</td>
<td></td>
<td>Automatic self-diagnosis of the electronic system. Emergency function: de-railing is assured even in the event of a fault or complete breakdown.</td>
</tr>
<tr>
<td>Track gauge 1435 mm, other widths on request.</td>
<td></td>
<td>Track gauge 1435 mm, other widths on request.</td>
</tr>
</tbody>
</table>
TECHNICAL SPECIFICATION 1404 ZW

ENGINE
Power rating acc. to ISO 1585 95 kW (130 HP)
Manufacturer Deutz
Type TCD 4.1 (Stage Tier 4 Final)
Displacement 4000 cm³
Rotational speed 1800 rpm
Design Turbocharger/charge-air cooling

HYDRAULIC SYSTEM
Computer controlled AWE4 system with a load limiting high performance piston pump and fuel efficient on-demand power control for sensitive, proportional and load independent ramp-up of all operational movements
• Primary and secondary protection of the hydraulic system against overload
• Suction valve for all operational functions as well as restrictors in the lift and articulating circuits
• Fine lowering and load-retaining valve in the lifting circuit.

HYDRAULIC SYSTEM
Computer controlled AWE4 system with a load limiting high performance piston pump and fuel efficient on-demand power control for sensitive, proportional and load independent ramp-up of all operational movements
• Primary and secondary protection of the hydraulic system against overload
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HYDRAULIC SYSTEM
Computer controlled AWE4 system with a load limiting high performance piston pump and fuel efficient on-demand power control for sensitive, proportional and load independent ramp-up of all operational movements
• Primary and secondary protection of the hydraulic system against overload
• Suction valve for all operational functions as well as restrictors in the lift and articulating circuits
• Fine lowering and load-retaining valve in the lifting circuit.

Hydraulic system 1 x AKP
Main pump HPR 135
Max. flow variable capacity pump 300 l/min
Max. operating pressure for operating movements 340 bar

NOISE LEVEL
Noise level* is significantly below EC limits
Ambience level (LwA) 98 dB (A)
Cab level (LpA) 73 dB (A)
*Dynamic sound level measurement according to 2000/14 EC

ELECTRICAL SYSTEM
Operating voltage 24 Volt
Cold-start heavy duty battery 2 x 100 Ah
Electrical system in compliance with StVZO (Regulations Authorizing the Use of Vehicles for Road Traffic in Germany) and European standard

BRAKES
Service brake pneumatic-hydraulically actuated drum brake
Parking brake pneumatically-operated spring-loaded parking brake
Emergency brake for use on rail
Max. un-braked trailer load 40 t
Max. trailer load with wagon brake 120 t

FLUID CAPACITIES
Fuel tank 190 l
Hydraulic tank 200 l
Engine oil 10 l
AdBlue® tank 10 l

CAB
Flexibly suspended • Heat absorbing extra wide windscreen for all-round vision
• Glare-free interior • Ergonomic pilot control levers • Adjustable steering column
• Lengthways adjustment of the seat independent of the control console
• Front windscreen slidable under the cab roof • Second seat for mate

Type Atlas 935 two-man comfort cab
Overall length 2130 mm
Width 935 mm

SLEWING MECHANISM
Slewing motor axial piston motor with priority valve
Slewing gear planetary reduction
Slewing brake* multi-disc brake
Drive via an internally toothed slewing ring
Slewing speed 8.5 rpm
Slewing torque 37.5 kNm

* simple swinging on slopes against the incline is assured, with locking foot pedal when slewing pressure of 120 bar is exceeded.

POWER TRANSMISSION
40 t special excavator axles with planetary drives to all four wheel hubs
• All-wheel drive • Variable drive engine • Double acting travel brake valve
• Travel direction selector with steering column mounted lever or switch on pilot control lever • Steering axle with automatic oscillation lock
• Travel controls via foot pedal valve

TRAVEL SPEED
Road and rail operation
Creep speed max. 1.0 km/hour
Off-road speed max. 5.0 km/hour
Highway speed max. 20 km/hour
Rail guidance, track gauge 1435 mm, other widths on request

TIRES
8 x 10.00 - 20
(inner tire - highway, outer tire - off highway tread pattern)

WEIGHT
Operating weight 17.0 - 20.0 t

OPERATING WEIGHTS, TAILSWING
WWW.ATLASGMBH.COM
TECHNICAL SPECIFICATION 1604 ZW

MAIN DIMENSIONS

TRAVEL CONFIGURATION WITH GRAB

WORKING EQUIPMENT:

<table>
<thead>
<tr>
<th>Base machine</th>
<th>Weight/kg</th>
<th>Standard equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>A67.5 Rail-Road hydraulic excavator 1604 ZW, with 4 outriggers, tail swing 1750 mm</td>
<td>18100</td>
<td>Narrow axles for underground and suburban railways</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional and special equipment</th>
<th>Weight/kg</th>
<th>Standard equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>B66.41 Hose-rupture safety device for lifting cylinder, overload warning device</td>
<td>10</td>
<td>Central lubrication (Option)</td>
</tr>
<tr>
<td>B67.20 Counterweight, tail swing 1950 mm</td>
<td>0</td>
<td>Maintenance point for filtration system</td>
</tr>
<tr>
<td>B66.39 Additional hydraulic unit for variable boom cylinder</td>
<td>20</td>
<td>Proportional Grab-rotation</td>
</tr>
<tr>
<td>B41.23 Two man fully glazed cab</td>
<td>300</td>
<td>Hydraulic system for grab and grab rotation function</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Base section of arm and boom</th>
<th>Weight/kg</th>
<th>Standard equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>C67.41P Base arm with two lift cylinders and an internally mounted operating cylinder</td>
<td>1350</td>
<td>“Travel” function via foot control</td>
</tr>
<tr>
<td>C66.46 Boom with articulating cylinder only for base arm C67.41P, working length 3300 mm</td>
<td>930</td>
<td>Accumulator for emergency lowering of boom system</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sticks</th>
<th>Weight/kg</th>
<th>Standard equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>D67.22 Rail-road excavator stick, working length 2240 mm</td>
<td>600</td>
<td>Power shift transmission</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bucket tipping cylinder</th>
<th>Weight/kg</th>
<th>Standard equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>F66.1 Bucket tipping cylinder with reversing linkage</td>
<td>180</td>
<td>Radio pre-installation</td>
</tr>
</tbody>
</table>

AVAILABLE & COST-EFFECTIVE
**TECHNICAL SPECIFICATION 1604 ZW**

---

### FLUID CAPACITIES

- **Fuel tank**: 260 l
- **Hydraulic tank**: 300 l
- **Engine oil**: 10 l
- **AdBlue® tank**: 20 l

### CAB

- **Type**: 935 two-man comfort cab
- **Overall length**: 2130 mm
- **Width**: 935 mm

### ENGINE

- **Power rating acc. to ISO 1585**: 115 kW (157 HP)
- **Manufacturer**: Deutz
- **Type**: TCD 4.1 (Stage Tier 4 Final)
- **Displacement**: 4000 cm³
- **Rotational speed**: 1800 rpm
- **Design**: Turbocharger/charge-air cooling

### HYDRAULIC SYSTEM

Computer controlled AWE4 system with a load limiting high performance piston-pump and fuel efficient on-demand power control for sensitive, proportional and load independent ramp-up of all operational movements.

- **Primary and secondary protection of the hydraulic system against overload**
- **Suction valve for all operational functions as well as restrictors in the lift and articulating circuits**
- **Pipe break protection valves for lifting and articulated cylinders**

### NOISE LEVEL

- **Amblence level (L_A)**: 97 dB (A)
- **Cab level (L_A)**: 71 dB (A)

*Dynamic sound level measurement according to 2000/14 EC*

### ELECTRICAL SYSTEM

- **Operating voltage**: 24 Volt
- **Cold-start heavy duty battery**: 2 x 100 Ah

Electrical system in compliance with StVZO (Regulations Authorizing the Use of Vehicles for Road Traffic in Germany) and European standard

### BRAKES

- **Service brake**: pneumatic-hydraulically actuated drum brake
- **Parking brake**: pneumatically-operated spring-loaded parking brake
- **Emergency brake for use on rail**:
  - **Max. un-braked trailer load**: 40 t
  - **Max. trailer load with wagon brake**: 120 t

### POWER TRANSMISSION

40 t special excavator axles with planetary drives to all four wheel hubs

- **All-wheel drive**
- **Variable drive engine**
- **Double acting travel brake valve**
- **Travel direction selector with steering column mounted lever or switch on pilot control lever**
- **Steering axle with automatic oscillation lock**
- **Travel controls via foot pedal valve**
- **Power shift transmission**
- **Traction increase**

### TRAVEL SPEED

- **Road and rail operation**:
  - **Crawling speed**: max. 1.3 km/hour
  - **Off-road speed**: max. 5.6 km/hour
  - **Highway speed**: max. 20 km/hour

Rail guidance, track gauge 1435 mm, other widths on request

### TIRES

- **8 x 10.00 - 20**
  - (inner tyre - highway, outer tyre - off highway tread pattern)

### WEIGHT

- **Operating weight**: 21.0—23.0 t
SAFE. POWERFUL. RELIABLE.

Building on technology –
High-tech excavator for use on rails.

THE RIGHT CHOICE EVERY TIME

ATLAS rail-road excavators were especially developed for use on rails and combine optimum mobile excavator technology with the most up-to-date know-how for rail use. This is your guarantee for top performance, even with difficult track conditions. We were the first to put an excavator on rails in 1965.

We were market and technology leaders in this field back then and still are today. As the sole world-wide supplier, we offer the computer assisted rail contact pressure system (CARSY).

We are the sole manufacturer in Europe of rail-road, short tailswing excavators with a swing radius of less than 2000 mm in combination with the approval of German Federal Railways. We can offer any chassis configuration to fit any rail network for our world-wide customers.

ATLAS — CONSTRUCTION MACHINERY MANUFACTURER WITH TRADITION

Take advantage of our many years of know-how and experience for your application: on rail, alongside the track and mounted on the railway wagon.
PRODUCT RANGE

HEAVY WHEEL LOADERS
PRODUCTIVE AND POWERFUL

Load sensing hydraulic system (LUDV) delivers hydraulic power only when needed.

Outstanding overhead loading height, large dumping widths and powerful tear-out and lifting forces.

Powerful loading technology with ATLAS SP-kinematics combining the advantages of parallel and Z-kinematics.

Single-lever pilot control with integrated direction of travel switch for simple directional changes.

Continuously variable travelling speed up to 40Km/h for reduced journey times.
Additional 'Versa Steer' steering mode as standard for optimal control and reduced operator fatigue.

- ROPS/FOPS cab and fully glazed second door.
- Ergonomic cab with excellent rear visibility and climate control system for operator comfort.
- High-performance cooling system with reversible fan for greater productivity.
- Short tail with transverse engine installation provides optimum stability and excellent rear visibility.
- High performance engines with impressive power development even at low speeds.
- Wide-opening hood for easy service access.
- Low wear multi-disc brakes integrated in the axles providing protection from dirt and damage.

High-performance steel chassis with outstanding ground clearance for access to the toughest job sites.
ATLAS Heavy Wheel Loaders combine compact dimensions with impressive productivity for outstanding value. Their strengths really come to the fore in applications including earth moving, road construction, recycling, wood processing, agriculture and certain areas of the alternative energy industry.

**L160**
- Operating weight: 9,200 kg
- Engine power: 74.5 kW (102 HP)
- Bucket capacity: 1.5 - 3.0 m³

**L210**
- Operating weight: 12,500 kg
- Engine power: 119 kW (162 HP)
- Bucket capacity: 2.0 - 3.5 m³

**L260**
- Operating weight: 14,400 kg
- Engine power: 128 kW (174 HP)
- Bucket capacity: 2.5 - 4.5 m³

**L310**
- Operating weight: 17,600 kg
- Engine power: 149 kW (203 HP)
- Bucket capacity: 3.0 - 5.0 m³
OPTIONS

HIGHER FURTHER

The ATLAS loader arm lift mechanism makes all the difference: high volume performance, fast work cycles, precise operation and enormous power development in all work movements.

With optional extensions, you can attain even more impressive lifting heights while significantly expanding the action radius.

ROBUST CONSTRUCTION

The 3-point suspension of the bucket consists of 80 mm bucket hinge pins. To protect material while working, the bucket anchor points are located directly on the lifting frame. Sealed bearing points on the lifting frame/bucket make for increased service life.

MAXIMUM DUMP HEIGHT

Extended cab lift mechanisms are available as an option in a 0.65 and 1.25 meter size.

What this means for you:

- Large bucket opening and ideal bucket angle make for productive filling.
- High tear-out/rack-back force over the entire lifting range, especially in the highest position – important for buckets with hydraulic clamping device.
- Excellent view of attachments.
- Suspension point quick-change device: Many different work attachments can be used.

USE WITH PALLET FORK

The ATLAS lift mechanism is perfectly suited for use with pallet fork thanks to 100% parallel guidance. Depending on the model, up to 3.94 m stacking height and cargo loads of up to 9 tonnes can be transported.

ALWAYS THE RIGHT TOOL

With the right tool tool, a ATLAS wheeled loader can handle a wide variety of work.

The choice is yours

- Universal bucket (4-in-1)
- Grab bucket (compost bucket)
- High-tilt bucket
- Fork carrier
- Quick-change device
- Timber grab

AVAILABLE & COST-EFFECTIVE

Extended lifting frame*
Increase of 1,250 mm

Extended lifting frame*
Increase of 650 mm

Standard lifting frame

* from L210
POWERFUL SENSITIVE ROBUST

DELMENHORST

LOADER CRANES | 11 to 620 kNm

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Lifting was never so easy

The product portfolio

Small cranes – from 11 to 75 kNm
In operation our smallest cranes are the greatest: w dead weight, easy to use and quick to mount. They have been specially constructed for small trucks.

Great flexibility in use
• Landscaping
• Authorities
• Building material
• Delivery
• Checking wells
• Checking operation

Medium cranes – from 88 to 240 kNm
Fitted with state-of-the-art technology and as reliable as a simple lifting pulley - this is what distinguishes our cranes for trucks from 7.5 to 22 tons. Achieving the highest degree of precision through great sensitivity. Fitted with LM+ technology for increased output up to 18%. Atlas offers cranes with optimized technology and equipment.

A class in itself – in operation too
• Landscaping
• Authorities
• Building material
• Delivery
• Material handling
Large cranes – from 250 to 620 kNm

Load. Precision. Reach.
Do you want maximum lifting capacity and reach? Welcome to the best productivity class, especially for trucks weighing more than 24 tons. Special features include a load sensing system (optional), twin slewing gear, continuous slewing gear and a wide range of fittings such as fly jib or winches. These cranes are faster in operation than comparable cranes with the same lifting capacity.

Where strength counts
- Building material
- Lifting logistics
- Container logistics
- Assembly work

The right crane for any task and for any truck: we will supply you with the full line from 11 to 620 kNm. We will design your individual crane together with you. 55 basic models and 300 different booms, up to 22 metres of hydraulic reach with 9 hydraulic extensions are available to help you.
Equipped with the best ideas

Folding cranes: space-saving miracles
Folded up to save space, they are mounted between a truck cab and superstructure or at the back of a truck to leave enough space on the loading area, even for bulky goods.

V-cranes: faster than any others
The special jib combination makes for more efficiency: rotating movements are faster than linear ones.

T-cranes: it couldn’t be easier
For special application and with the right technology - this crane is a very uncomplicated operating tool.

(e)LMplus: a lot more lifting capacity
 Gives a loaded crane a whole lot more capacity.  
Up to an extra 18% load moment possible.

E-Series: the extra class
An Atlas milestone which opened up new possibilities for working with cranes. 
Effective synthesis between technology, convenience, safety and efficient electronics system.
ONE CALL FOR ALL OUR CUSTOMER NEEDS
08444 99 66 88

• CALL MONITORING FACILITY
• INTERNET BASED SYSTEM
• CALLSRecorded
• 24 HOUR TELEPHONE COVER
• DEDICATED CONTROLLERS
• OPTION TO LEAVE MESSAGE*
  *30 minute max response time

DEDICATED CONTROLLERS FOR BREAKDOWNS (REACTIVE TEAM)

• Focus on breakdowns – getting engineers to site quickly
• Keeping customers updated during process

DEDICATED CONTRACT CONTROLLERS FOR CONTRACTS (PROACTIVE TEAM)

• Manage services dates
• Follow up on reported work (estimate/complete)
• Make sure LOLER regulations are adhered to.
• Keep customers advised of wear patterns.

FULLY EQUIPPED

• ON BOARD GENERATING SYSTEM
• LAPTOP COMPUTER FOR DIAGNOSTICS
• COMPREHENSIVE VAN STOCK
• TRACKING FACILITY
• SATELLITE NAVIGATION
SERVICE – ENGINEERS TRAINING

• FACTORY TRAINED
• ON-GOING TRAINING NEW PRODUCTS
• CONVERSANT WITH LOLER REQUIREMENTS
• ALLMI OPERATOR AND THOROUGH EXAMINATION TRAINED
• BACKED UP BY FULLY TRAINED SUPERVISORS.
• 6 MONTHLY AUDITING OF ALL FIELD SERVICE ENGINEERS

HEALTH & SAFETY – WORKING AT HEIGHT

• 2005 WORKING AT HEIGHT REGULATIONS FOCUS COMPANIES TO LOOK HOW DAY TO DAY WORK IS CARRIED OUT.
• WE LOOKED AT VARIOUS WAYS TO REDUCE THE RISK OF WORKING ON THE BACK OF A VEHICLE.
• ATLAS WORKED FOR 12 MONTHS TO COME UP WITH A FINAL DESIGN OF PLATFORM.
• PROJECT INCLUDED INVESTMENT IN NEW VANS TO ALLOW FITMENT OF PLATFORM.
ATLAS CRANES UK LTD
SERVING THE MILITARY FOR MORE THAN 40 YEARS

AVAILABLE & COST EFFECTIVE
WWW.ATLASGMBH.COM
A PROVEN TRACK RECORD
SINCE 1968

- OVER 2,500 CRANES AND EXCAVATORS SUPPLIED SINCE 1968
- DESIGN, MANUFACTURE, FITTING, SERVICE AND SUPPORT DIRECT FROM ONE SOURCE
- IN-DEPTH KNOWLEDGE, ADVICE AND TECHNICAL EXPERTISE FROM A DEDICATED TEAM
- CRANE AND COMPONENT REFURBISHMENT FROM SPECIALLY DESIGNED WORKSHOPS
- PRODUCT EXCELLENCE, PERFORMANCE AND RELIABILITY FROM THE INDUSTRY EXPERTS
- NATIONWIDE SERVICE AND SUPPORT NETWORK
From complete cranes to power packs, rams, valve blocks and other major hydraulic components, Atlas provides a comprehensive refurbishment service using skilled engineers based in its UK workshops. The company is currently undertaking a number of refurbishment contracts as part of its total solution for the military. The resource is designed to maximise the working life and financial viability of all Atlas cranes supplied to this all-important sector.
The Truck Mounted Loader (TML) contract is typical of the way in which Atlas works with the MOD’s Preferred vehicle suppliers. This contract called for the supply of 104 cranes which started to come into service in September 2009.

- **Scope:** 33 x TML 240.2e A2 and 71 SLDT 105.2 A1L cranes
- **Chassis:** Iveco 6x6 Trakker
- **Lifting capacity:** Up to 6 tonnes
- **Controls:** Included on vehicle, plus remote control pack
- **Expected life span:** 17 years

**Potential uses:**
- Loading of pallets on to MGB trailers
- Boats on to cradles
- Lifting of concrete slabs
- Splitting BR90 tank bridges for inspection, building and replacement panels
- ISO container handling

**CRANE AND EXCAVATOR SHOWCASE**

- Foden Recovery 6500EA12/1
- CRARRV unit with 6000M8 crane
- BR90 with 5003M5 crane
- Atlas 140W excavator
- MAN Recovery unit with 600.2 crane
- SLDT(P) with 165M1 crane
- Folded 165M1 crane fitted to SLDT(P)
- Camouflaged CRARRV with 6000M8 crane
SuperCompact | The rear that support the front
EKA Recovery – **SuperCompact**

In any organisation today the availability and economic use of resource is paramount.

To achieve those aims, the selection of equipment and systems to manage valuable resources is of considerable value in the strategic aims of industrial corporations and equally, if not more importantly, in defence planning and operations.

With the above précis in mind, the EKA philosophy in approaching the design of their equipment is to consider the current and long term operational requirements of supporting military vehicles, in order that our Recovery Systems maximize ARM requirements.

EKA Limited was formed to specifically focus in the area of military recovery equipment and has continued to concentrate in this specialized sector for over 30 years. EKA personnel have long-term experience working within the heavy truck and military recovery sectors and that knowledge, of both equipment and task, is integrated into the equipment EKA design and supply.

Using a combination of in-house designed equipment and high-quality bought-in components (which incorporate specific EKA design requirements) the latest EKA recovery system SuperCompact is being supplied to MAN ERF as part of the major Support Vehicle programme for the UK MoD.

The SuperCompact is the third generation of EKA Recovery systems to be supplied to the UK MoD, and is featured in this publication installed on the MAN SX45 8x8 military chassis.
SuperCompact

Fig 1 | EKA SuperCompact Recovery System on MAN SX 45.

Fig 2 | Front suspend tow. System on MAN SX 45.

Fig 3 | Rear suspend tow. Saxon APC.

Fig 4 | Rear suspend tow. MAN 6 tonne Cargo during System integration trials.
**SuperCompact**

Fig 5 | SuperCompact with ‘swing-away’ towing pintle deployed.
Demonstrated towing Warrior on Hollebone system.

Fig 6 | Side over side recovery on Bedford 4 tonne. SuperCompact using crane and main recovery winch.

Fig 7 | Front suspend tow. Foden EKA ‘Compact’.
Fig. 7  Front suspend tow.  
Foden EKA ‘Compact’.

Fig. 8  Front suspend tow.  
MAN 6 tonne Cargo during System integration trials.

Fig. 9  Front suspend tow.  
MAN 9 tonne Cargo during System integration trials.

Fig. 10  Front suspend tow.  
Unipower BR90 using Unibeam attachment.
SuperCompact

All illustrations and specifications contained within this brochure are based on the latest product information available at time of publication. EKA Limited reserves the right to make changes, without notice, to any equipment or specifications. For any further information or enquiries, please call 01753 869818 or visit www.ekalimited.com
TUNNELLING EQUIPMENT
SCHAEFF TUNNELLING EQUIPMENT

BACK AT THE FOREFRONT OF THE INDUSTRY

TUNNEL EXCAVATORS AND HEADING MACHINES

Make major progress with the extremely durable and productive Schaeff tunnel excavators, tunnel heading and loading machines. Perfect for small to medium-sized tunnel cross sections, enabling you to operate efficiently in soft to medium-hard rock or when loading excavated material that has been blasted.

With many decades of experience and specialist knowledge, we have the expertise to adapt our machines to different cross sections and geological conditions.

SPECIAL MACHINES

If you have a special application, Schaeff can help with custom solutions based on standard Schaeff excavators and wheeled loaders. To meet your requirements, these machines can be equipped with special work tools, drill mountings, lifting platforms, remote control, or electric drive.
APPLICATIONS

MAKING A BREAKTHROUGH

With more than 50 years of experience in tunnelling attachments and special machines technology, Schaef has the specialist knowledge to deliver high quality machines for a wide range of applications.

TUNNEL HEADING MACHINES

The patented on board hammer/bucket combination enables tools to be changed quickly saving you time and money.

MUCKING AND LOADING MACHINES

In use worldwide as high speed loading machines in soft to extreme hard and abrasive stone, as mucking machines in typical blasting operations or for scaling the tunnel face and for invert cleaning.
Years of experience in the development of high performance ballast loading machines for reconstructing railway track foundations.

With its compact design, the Schaeff TE210 is well suited for use in medium-sized cross-sections.
### TUNNEL EXCAVATORS

<table>
<thead>
<tr>
<th>Type</th>
<th>TE210</th>
<th>TE210 E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended excavation cross section m²</td>
<td>25 - 60</td>
<td>25 - 60</td>
</tr>
<tr>
<td>Machine width mm</td>
<td>2700</td>
<td>2700</td>
</tr>
<tr>
<td>Engine power kW</td>
<td>Diesel 165</td>
<td>Electric 132</td>
</tr>
<tr>
<td>Travelling speed, max. km/h</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Rock breaker/attachment weight kg</td>
<td>1400</td>
<td>1400</td>
</tr>
<tr>
<td>Gross machine weight, approx. t</td>
<td>28 - 32</td>
<td>28 - 32</td>
</tr>
<tr>
<td>Cable reel, capacity m</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

### SPECIAL MACHINES

<table>
<thead>
<tr>
<th>Type</th>
<th>ITC312-VL</th>
<th>TC48 E</th>
<th>TC16 Twin Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine width mm</td>
<td>2410</td>
<td>1860</td>
<td>990 - 1340</td>
</tr>
<tr>
<td>Conveyor width mm</td>
<td>800</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diesel drive power kW</td>
<td>200</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td>Electric drive power (400 V) kW</td>
<td>-</td>
<td>22</td>
<td>11</td>
</tr>
<tr>
<td>Travelling speed, max. km/h</td>
<td>5.0</td>
<td>2.9</td>
<td>2.4</td>
</tr>
<tr>
<td>Loading capacity up to m³/min</td>
<td>3 - 4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rock breaker/attachment weight kg</td>
<td>700</td>
<td>300</td>
<td>-</td>
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<tr>
<td>Gross machine weight, approx. t</td>
<td>36</td>
<td>5.3</td>
<td>1.9</td>
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<td>Cable reel, capacity m</td>
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<tr>
<td>Type</td>
<td>ITC120 F2</td>
<td>ITC312 H6</td>
<td>ITC320 V45</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-----------</td>
<td>-----------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Recommended excavation cross section (m²)</strong></td>
<td>10 - 20</td>
<td>15 - 30</td>
<td>20 - 50</td>
</tr>
<tr>
<td><strong>Machine width (mm)</strong></td>
<td>1900</td>
<td>2400</td>
<td>2700</td>
</tr>
<tr>
<td><strong>Conveyor width (mm)</strong></td>
<td>620</td>
<td>800</td>
<td>800</td>
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<tr>
<td><strong>Diesel drive power (kW)</strong></td>
<td>74</td>
<td>165</td>
<td>224</td>
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<tr>
<td><strong>Electric drive power (400 V) (kW)</strong></td>
<td>55</td>
<td>90</td>
<td>160</td>
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<tr>
<td><strong>Travelling speed, max. (km/h)</strong></td>
<td>3.5</td>
<td>5.0</td>
<td>3.1</td>
</tr>
<tr>
<td><strong>Loading capacity up to (m³/min)</strong></td>
<td>1 - 2</td>
<td>2 - 3</td>
<td>2 - 3</td>
</tr>
<tr>
<td><strong>Rock breaker/attachment weight (kg)</strong></td>
<td>850</td>
<td>1500</td>
<td>2600</td>
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<tr>
<td><strong>Gross machine weight, approx. (t)</strong></td>
<td>25</td>
<td>38</td>
<td>50</td>
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<table>
<thead>
<tr>
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<th>ITC120 F1 / ITC120 F3</th>
<th>ITC312 H1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended excavation cross section (m²)</strong></td>
<td>9 - 20</td>
<td>12 - 30</td>
</tr>
<tr>
<td><strong>Machine width (mm)</strong></td>
<td>1900</td>
<td>2400</td>
</tr>
<tr>
<td><strong>Conveyor width (mm)</strong></td>
<td>620</td>
<td>800</td>
</tr>
<tr>
<td><strong>Diesel drive power (kW)</strong></td>
<td>74</td>
<td>165</td>
</tr>
<tr>
<td><strong>Electric drive power (400 V) (kW)</strong></td>
<td>55</td>
<td>90</td>
</tr>
<tr>
<td><strong>Travelling speed, max. (km/h)</strong></td>
<td>3.5</td>
<td>5.0</td>
</tr>
<tr>
<td><strong>Loading capacity up to (m³/min)</strong></td>
<td>1 - 2</td>
<td>2 - 3</td>
</tr>
<tr>
<td><strong>Rock breaker/attachment weight (kg)</strong></td>
<td>600</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Gross machine weight, approx. (t)</strong></td>
<td>24</td>
<td>36</td>
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<table>
<thead>
<tr>
<th>Type</th>
<th>ITC120 F4</th>
<th>ITC312 H3</th>
<th>ITC312-SL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended excavation cross section (m²)</strong></td>
<td>9 - 20</td>
<td>12 - 30</td>
<td>18 - 50</td>
</tr>
<tr>
<td><strong>Machine width (mm)</strong></td>
<td>1900</td>
<td>2400</td>
<td>2750</td>
</tr>
<tr>
<td><strong>Conveyor width (mm)</strong></td>
<td>620</td>
<td>800</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Diesel drive power (kW)</strong></td>
<td>74</td>
<td>165</td>
<td>165</td>
</tr>
<tr>
<td><strong>Electric drive power (400 V) (kW)</strong></td>
<td>55</td>
<td>90</td>
<td>110</td>
</tr>
<tr>
<td><strong>Travelling speed, max. (km/h)</strong></td>
<td>3.5</td>
<td>5.0</td>
<td>4.8</td>
</tr>
<tr>
<td><strong>Loading capacity up to (m³/min)</strong></td>
<td>2 - 3</td>
<td>3 - 5</td>
<td>5 - 12</td>
</tr>
<tr>
<td><strong>Rock breaker/attachment weight (kg)</strong></td>
<td>600</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Gross machine weight, approx. (t)</strong></td>
<td>21</td>
<td>35</td>
<td>40</td>
</tr>
</tbody>
</table>

Standard data – deviations in terms of equipment packages and/or country standards are possible.
GENERAL
The excavator unit is fitted with a first slewing gear which can be turned 2x90° and a second swing assembly which can be turned the full 360° to enable precise positioning to empty the dipper in the transport bucket area.
An operator controls the excavator unit from the cab.

OPERATING DATA
- Operating weight: approx. 6800 kg
- Total width: 2040 mm
- Max. reach: 7550 mm
- Max. digging depth: 7750 mm
- Ripping force in accordance with DIN 24086: 47.5 kN
- Breakout force in accordance with DIN 24086: 64.5 kN

HYDRAULIC SYSTEM
Working hydraulics
- Axial piston displacement pump with flow adjustment and load sensing control (not included in scope of supply)
- Delivery rate: max. 190 l/min at input
- Operating pressure: max. 250 bar

Actuation
- Hydraulic pilot-operated excavator valves for all functions.

Hydraulic cylinders
- Dual-action work cylinders, partially with end-position damping

Swing drive 1
- Swing system with 2 hydraulic cylinders via slewing ring
- Swing area: +/- 90° resp. +/- 80° in operation mode

Swing drive 2
- Hydrostatic with two-stage planetary gear and drive pinion on the inner-toothed sprocked wheel of the slewing ring
- Swing area: 360°
- Swing: 0 - 8 U/min
**BRAKES**

Swing brake

Automatically active spring-type multi-disk brake as parking brake

The hydrostatic slewing gear also functions as a wear-free slewing brake

**SUPPLIED ATTACHMENTS**

Hydraulic hammer

Hydraulic cutter unit

Rock bucket

**DIGGING ARC**

View drawn without cabin
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UNIQUE – THE ATLAS DEALER NETWORK

With many ATLAS dealers our cooperation goes way back almost to our invention of the hydraulic excavator. Our authorized dealers have at their disposal the expertise, service stations and technicians, who will visit you at your premises if necessary, and keep the most common spare parts in stock on-site. You will find an authorized ATLAS dealer also close to your location. Just click "dealer search" on www.spsgmbh.com, enter your postal area code, and within the dealer network with 135 support points in Germany you will quickly find your ATLAS-contact nearby.
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