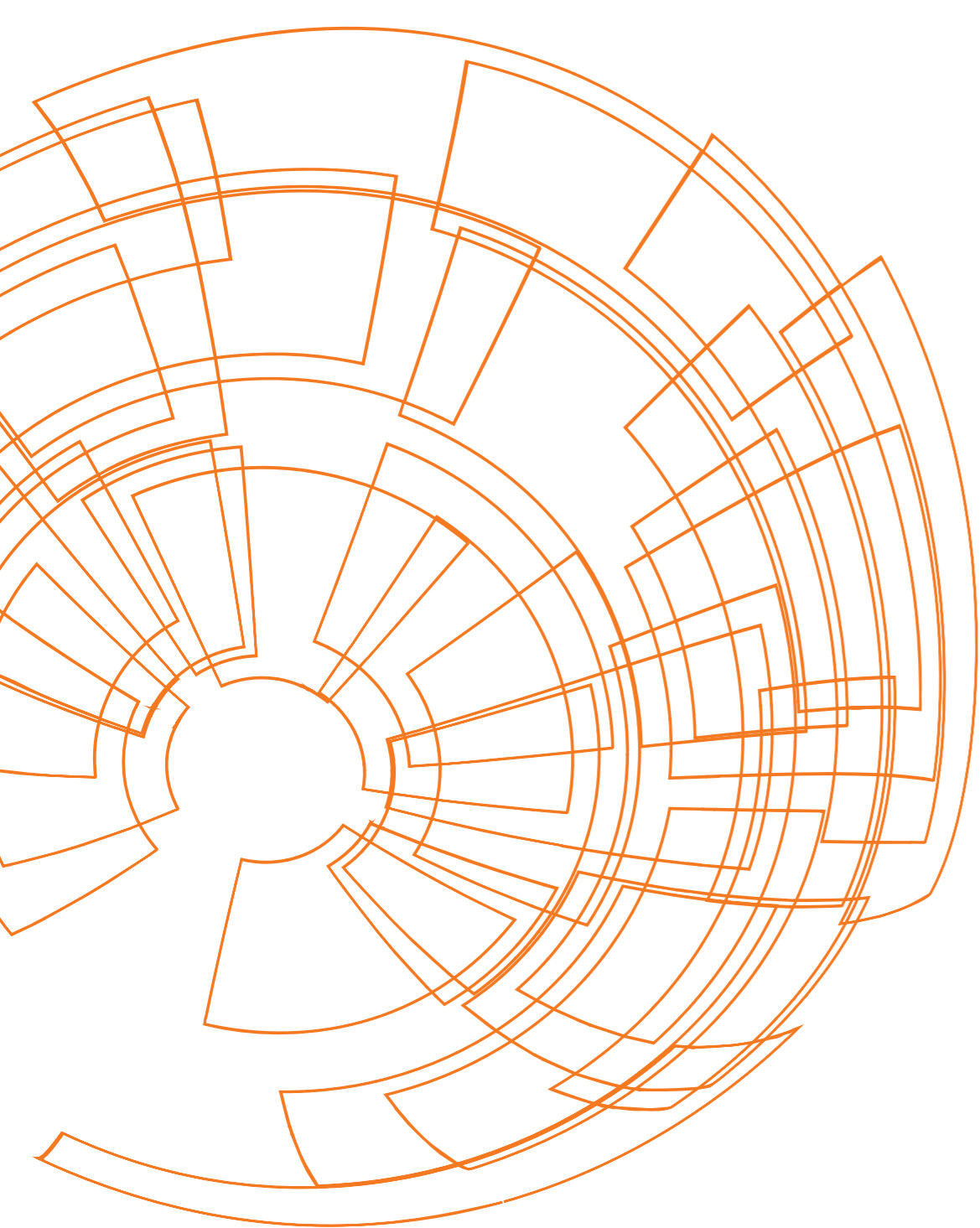


ATLAS GROUP



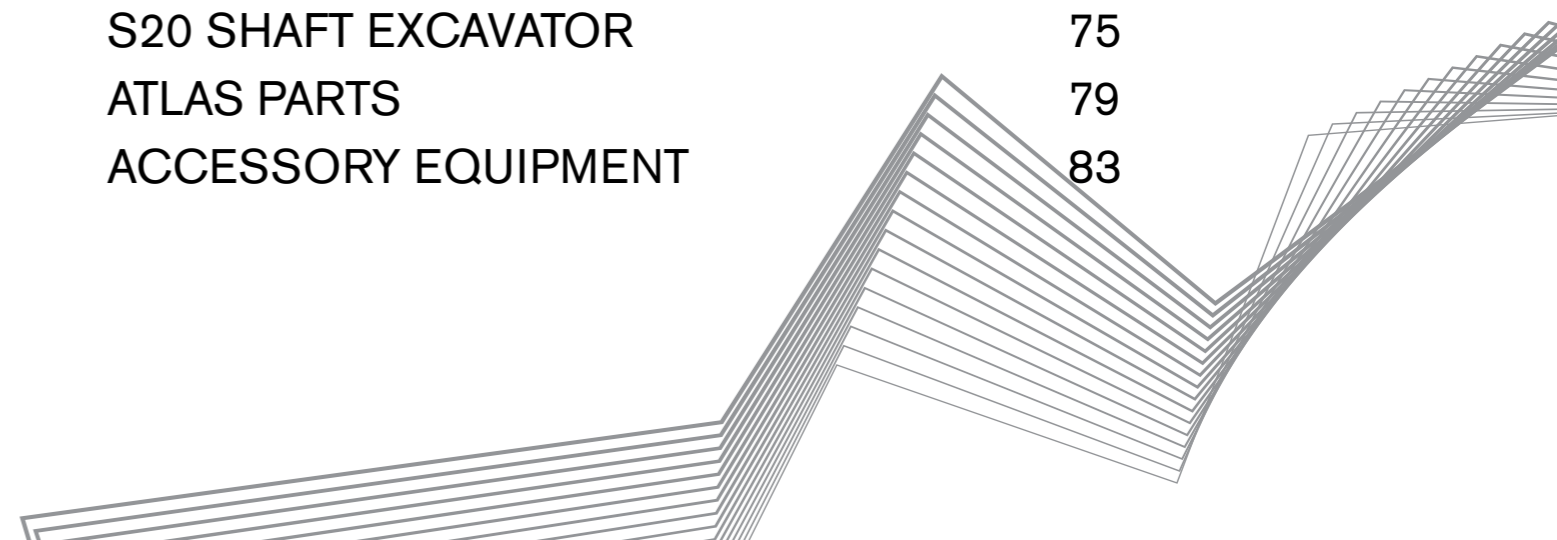
WWW.ATLASGMBH.COM



ATLAS GROUP

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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 manufactures a wide range of equipment for the construction, railroad, material handling, crawler and infrastructure industries. You will find more information on Atlas under www.atlasgmbh.com.



CONSTRUCTION

TRANSPORT

INFRASTRUCTURE

RECYCLING

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, 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

will be measured in terms of product performance and reliability.

ATLAS GROUP

CRAWLER EXCAVATORS

Operating Weight : from 18,000 up to 35,500 kg

- 160LC
- 175LCsr
- 190LC
- 215LCsr
- 225LC
- 240LC
- 260LC
- 340LC



MATERIAL HANDLING MACHINES

Operating Weight : from 19,200 up to 80,000 kg



- | | | | |
|-------|-------|-------|-------|
| 180MH | 250MH | 350MH | 800MH |
| 200MH | 270MH | 400MH | |
| 230MH | 300MH | 520MH | |



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.

- Landscaping
- Delivery
- Authorities
- Material handling
- Building material

These are tools that enable you to achieve your objectives. No matter where you are in the world, you'll find us close by. Our extensive network of SCHAEFF partners is here to provide expert advice, local service and an efficient spare parts service.

- Transverse cutting units
- Cutting units with rotator
- Cutter buckets
- Patch planers



RAIL-ROAD EXCAVATORS

Operating Weight : from 20,000 up to 22,000 kg



- 1404ZW
- 1604ZW

SMALL CRANES

from 13 to 56 kNm

Lightweight. Simple. Slimline.

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
- Authorities
- Checking wells
- Building material
- Checking operation



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



HEAVY WHEEL LOADERS

KAELBLE 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 | L210 | L260 |
| L310 | L420 | L450 |

WHEELED EXCAVATORS

Operating Weight : from 15,700 up to 24,000 kg

- 140W
- 150W
- 160Wsr
- 160W
- 180Wsr
- 190W
- 220W



MEDIUM CRANES

from 65 to 240 kNm



Flexible. Compact. Sensitive.

Fitted with state-of-the-art technology and as reliable as a simple lifting pulley - this is what distinguishes our cranes for trucks from

HYDRAULIC CUTTING UNITS



If you work with the toughest rock and concrete on a daily basis, on land or under water; if you need to cut with a high degree of precision; or if you work in restricted spaces, trenches or underground, then you need the productivity and reliability offered by SCHAEFF Cutters.

ATLAS CRANES UK LTD



- 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

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

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.

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

7 MODELS · 13 - 24 TONS



STABLE. STRONG. STEADY.

ATLAS SERIES

UNCOMPROMISINGLY BUILT FOR HIGH PERFORMANCE

Particularly effective boom design

Extremely light and enormously robust booms.



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 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.

Functional and spacious cab

The Design is adapted to your needs.



New quieter exhaust system
Covering EURO 4-status/ US EPA TIER 4 emission standards a **sealed diesel** particle filter.



Standard air climate control



Always secured - New camera system with 5,6" interior monitor.



Durable and comfortable

New Atlas driver seat.



Improved air intake
to optimize engine work.



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.



New attractive counterweight
design and better weight distribution.



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 „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 replacement parts allows fast and inexpensive service.
- Engine controller that supplies the display with operating and service data.

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.



TECHNICAL DATA

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

ATLAS

CRAWLER EXCAVATORS

**6 MODELS
18 - 36 TONS**



ROBUST. PRECISE. EFFICIENT.

ATLAS SERIES

EXCELLENT CONTROL & VISIBILITY

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

PARTICULARLY EFFECTIVE BOOM DESIGN

Extremely light and enormously robust booms.

NEW TIER 4 INTERIM

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 for future.

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.

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

NEW QUIETER EXHAUST SYSTEM
Covering EU Stage III B / US EPA Tier 4 Interim

ALWAYS SECURED- New camera system with 5,6" interior monitor.

IMPROVED AIR INTAKE

to optimize engine work.

NEW ATTRACTIVE COUNTERWEIGHT
design and better weight distribution.

THE ENGINE

NEW TIER4

Range of performance depending on the crawler excavator:
80-180kW at 2000 rpm 4 or 6 cylinder diesel engines

GOOD FOR THE ENVIRONMENT:

- DEUTZ TCD 4.1 L4, DEUTZ TCD 6.1 L6, Cummins QSB6.7 – 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 IIIB and US EPA Tier 4 interim with DVERT® particulate filter (DPF).
- 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.

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.
- 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

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.



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

The engines in its field have already satisfied all requirements of the EU Stage IIIB / Tier 4 Interim



TECHNICAL DATA

CRAWLER EXCAVATORS

		Operating weight (kg)	Engine power kW (HP)	Max. dig depth (m)
	MODEL			
	160LC	18,000	80(109)	7,02
	190LC	19,700	105(143)	6,21
	225LC	23,900	116(158)	7,58
	240LC	25,100	129(175)	7,69
	260LC	26,600	129(175)	7,69
	340LC	35,500	180(245)	7,77
	175LCsr	18,800	95(130)	6,68
	215LCsr	21,800	115(157)	7,15

ATLAS

MATERIAL HANDLING MACHINES

11 MODELS - 16-95 TONS



STRONG. RELIABLE. MULTIFUNCTIONAL.

ATLAS SERIES

EXCELLENT CONTROL & VISIBILITY

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

Particularly effective boom design
Extremely light and enormously robust booms

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.

Functional and spacious cab
The Design is adapted to your needs



New quieter exhaust system
Covering EU Stage III B / US EPA Tier 4 Interim emissions standards

Standard air climate control



Always secured - New camera system with 5,6" interior color monitor

Durable and comfortable
New Atlas driver seat



Improved air intake
to optimize engine work

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



New attractive counterweight
design and better weight distribution

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 „LED“ rear lights
for better visibility

TECHNICAL DATA

	MODEL	Operating weight (kg) 	Engine power kW (HP) 	Max. Range(m) 
	160MH	17,500	80 (109)	8,4
	180MH	19,200	95 (130)	10,1
	200MH	20,000	105 (143)	10,1
	250MH	25,000	116 (155)	12,65
	270MH	27,000	129 (176)	14,8
	300MH	31,500	129 (176)	14,4
	350MH	36,000	180 (241)	18,2
	400MH	41,000	180 (241)	18,1
	520MH	57,000	182 (248)	18,2
	800MH	95,000	256 (348)	24,1

ATLAS

New design
ATLAS 350MH E
(Electric)



ELECTRO - POWER IS COMING!

ATLAS 350MH E HIGHLIGHTS

THE TREND OF THE FUTURE IN RECYCLING AND SCRAP HANDLING

- Lower energy consumption
- No refueling stops
- No CO₂ emissions
- Low-noise operation, low generation of heat
- Full mobility due to reeling line at the rear of the machine
- Cost saving due to reduced maintenance
- Use of standard parts from the proven Diesel machines
- Powerful electric drive. Total power 170KW
- Control cabinet integrated into the machine
- Cable reel (approx. 80 m) at the rear of the machine
- Electric climate control and heating system
- Machine design tailored to E-drive
- Proven hydraulics adopted to the greatest possible extent
- The proven attachment tools can be used.

ELECTRIC KEY PERFORMANCE INDICATORS OF THE NEW 350MH E:

- Main drive 132KW / 400V / 1480 U/min / IP 55 for powering the master hydraulic system
- Power take-off 11KW / 400V / 1465U/min / IP 55 for pilot control and steering
- Total power of machine approx. 70KW
- Supply voltage via transformer 24V 40 Amps
- Control cabinet integrated into the machine
- Operating hours meter in the control cabinet
- Emergency stop level category C

ELECTRIC KEY PERFORMANCE INDICATORS OF THE NEW 350MH E

- Equipment: minimum load value 250KVA
- 3 phases + PE
- 400V / 315 Amps

ELECTRIC CABLE REEL AT THE REAR OF THE NEW 350MH E

- Cable reel mounted to the undercarriage (rear)
- Approx. 80 m of reeling line (depending on local conditions)
- Cross section of line:
3x150² +2G70/ 2+2x1x1,5² pilot lines
- Optional: Trailing cable or fixed connection



NEW ENGINE HOOD AND CASING PARTS TAILORED TO THE ELECTRIC VERSION OF THE 350 MH E

New design of engine hood on 350MH E with new cover.

Optimized visibility to the rear due to low design of the machine



CLOSE-UP VIEW OF THE NEW 350MH E



E-drive and main pumps



Side panel at the radiator



Control cabinet and distributor block



Lockable master switch Optional: fixed connection or trailing cable



Compressor unit for electric heating and climate control system

FULLY INTEGRATED OPERATING ELEMENTS (IN THE CAB) FOR THE ELECTRICAL SYSTEM

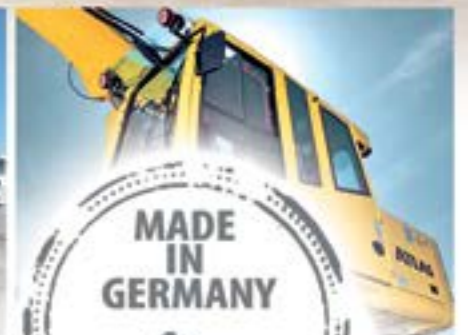
All operating elements for the electrical system as well as heating and climate control are integrated on the left and right of the existing panel. Further use of the existing airflow system of the cab for heating and climate control. Optional rear view camera with color display.



ATLAS

RAIL-ROAD EXCAVATORS

FROM 17 TO 23 TONS



SAFE. POWERFUL. RELIABLE.

ATLAS SERIES

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 engines - lower exhaust emissions.



New quieter exhaust system covering new Euro 4 STAGE / US EPA TIER 4 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.



We offer rail-road excavators of three types. In particular, the excavators comply with the latest construction requirements of the German Federal Railways.

1404 ZW with the CARSY-System	1404 Friction wheel	1604 ZW with the CARSY-System
17 - 20 t	17 - 19 t	21 - 23 t
95 kW (130 HP)	95 kW (130 HP)	115 kW (157 HP)
Tailswing: 1575, 1700 mm	Tailswing: 1575, 1700 mm	Tailswing: 1750, 1950 mm

Particularly effective boom design - extremely light and enormously robust booms.

Ideal weight distribution, fatigue-free work and fast turnover.

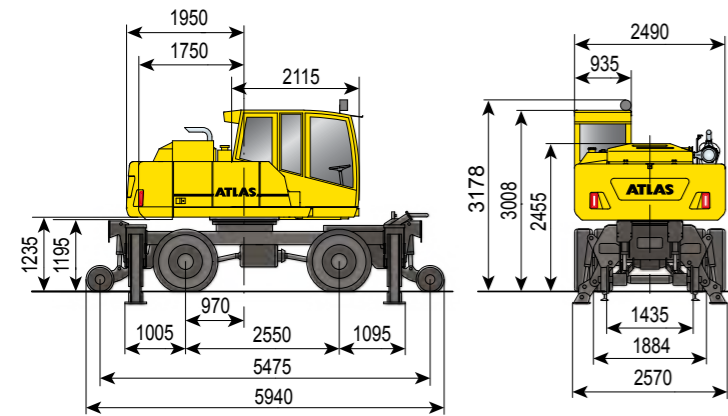
Functional and spacious cab design adapted to your needs.

TECHNICAL SPECIFICATION SHEET

RAIL-ROAD EXCAVATOR 1404ZW

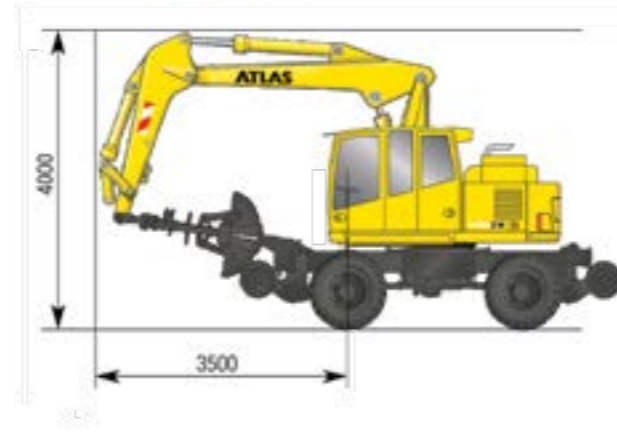
Main dimensions

Base machine A41.5 – with 4 outriggers



Travel configuration with grab

Base machine A41.4 – without outriggers



Working equipment:

Base machine	Weight/kg	Standard equipment
A41.4 Rail-Road hydraulic excavator 1404 ZW, without outriggers, tailswing 1575 mm	13600	<ul style="list-style-type: none"> Maintenance point for filtration system
A41.5 Rail-Road hydraulic excavator 1404 ZW, with 4 outriggers, tailswing 1575 mm	16000	<ul style="list-style-type: none"> Hydraulic system for grab and grab rotation function Tank indicator Battery main switch in negative lead. "Travel" function via foot control Accumulator for emergency lowering of boom system Sliding window in cab door Windshield washer system Central lubrication Tilt and height adjustable steering column Radio pre-installation
Additional and special equipment		
B41.20 Heavy counterweight (4.9 t), tailswing 1700 mm	400	
B41.20 Heavy counterweight (5.3 t), tailswing 1700 mm	800	
B41.39 Additional hydraulic unit for variable boom cylinder	20	
B41.23 Two man fully glazed cab	300	
Base section of arm and boom		
C53.41P Base arm with two lift cylinders and an internally mounted operating cylinder	1090	
C53.46 Boom with articulating cylinder only for base arm C53.41P	930	
Sticks		
D41.22 Rail-road excavator stick, working length 2200 mm	490	
Bucket tipping cylinder		
F53.1 Bucket tipping cylinder with reversing linkage	165	
Rail guidance		
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.		<ul style="list-style-type: none"> The front and rear bogie wheels can be independently switched to permit simple de-railing and positive crossing of rail points. Automatic self-diagnosis of the electronic system. Emergency function: de-railing is assured even in the event of a fault or complete breakdown. Track gauge 1435 mm, other widths on request.

TECHNICAL SPECIFICATION SHEET

RAIL-ROAD EXCAVATOR 1404ZW

Engine

Power rating acc. to ISO 1585	95 kW (130 HP)
Manufacturer	Deutz
Type	TCD 4.1 (Stage Tier 3B)
Displacement	4000 cm ³
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	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 (L _{wA})	98 dB (A)
Cab level (L _{pA})	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

Cab

Flexibly mounted • 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

Swing assembly

Swing motor	axial piston motor with priority valve
Swing gear	planetary reduction
Swing brake*	multi-disc brake

Drive via an internally toothed swing bearing	
Swing speed	8.5 rpm
Swing 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

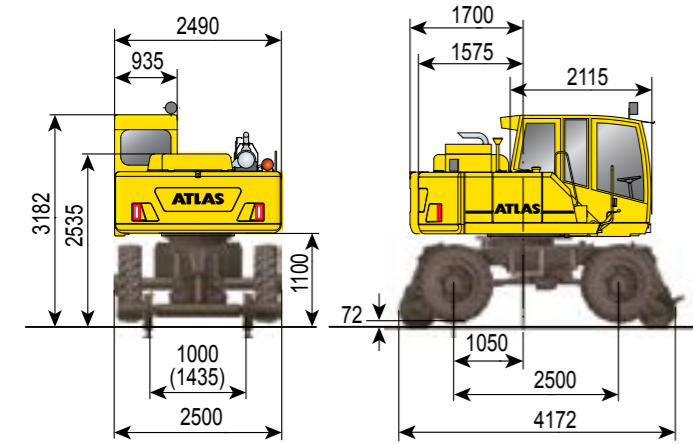
Operating weight	17.0 - 20.0 t
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TECHNICAL SPECIFICATION SHEET RAIL-ROAD EXCAVATOR / FRICTION WHEEL 1404ZW

Main dimensions

Base machine A41.4S



Travel setup with grab

Base machine A41.4S



Working equipment:

Base machine	Weight/kg	Standard equipment
A41.4S Rail-road hydraulic excavator 1404 ZW, with 1000 mm track gauge, tailswing 1575 mm	13600	<ul style="list-style-type: none"> Maintenance point for filtration system
Additional and special equipment		
B41.20 Heavy counterweight (4.9 t), tailswing 1700 mm	400	<ul style="list-style-type: none"> Hydraulic system for grab and grab rotation function
B41.39 Heavy counterweight (5.3 t), tailswing 1700 mm	800	<ul style="list-style-type: none"> Tank indicator
B41.23 Additional hydraulic unit for variable boom cylinder	20	<ul style="list-style-type: none"> Battery main switch in negative lead.
6032281 Conversion kit 1435 mm track gauge	300	<ul style="list-style-type: none"> "Travel" function via foot control Accumulator for emergency lowering of boom system
Base section of arm and boom		
C53.41P Base arm with two lift cylinders and an internally mounted operating cylinder	1090	<ul style="list-style-type: none"> Sliding window in cab door. Windshield washer system
C53.46 Boom with articulating cylinder only for base arm C53.41P	930	<ul style="list-style-type: none"> Central lubrication
Sticks		
D41.22 Rail-road excavator stick, working length 2200 mm	490	<ul style="list-style-type: none"> Tilt and height adjustable steering column Preparation for radio installation
Bucket tipping cylinder		
F53.1 Bucket tipping cylinder with reversing linkage	165	<ul style="list-style-type: none"> Storage box in the cab Air-cushioned comfort seat with armrests and lumbar support Toolbox on chassis Sealed pivot points in the base section of the boom Boom and stick with 50 hour maintenance intervals Securing lug for securing the grab during road travel Air-conditioning Air dryer for compressed air system
Rail guidance		
Four separate rail guidance wheels drive by a friction wheel activated by 4 hydraulic cylinders with appropriate safety equipment. During rail travel the chassis is lifted so rail points (Indusi) are not damaged when crossing. Greater loads can be picked up laterally to the direction of travel by lowering the chassis onto the sleeper heads. All movements can be controlled from the cab. An adapter allows the excavator to work on other track gauges.		

TECHNICAL SPECIFICATION SHEET RAIL-ROAD EXCAVATOR / FRICTION WHEEL 1404ZW

Engine

Power rating acc. to ISO 1585	95 kW (130 HP)
Manufacturer	Deutz
Type	TCD 4.1 (Stage Tier 3B)
Displacement	4000 cm ³
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	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 (L _w A)	98 dB (A)
Cab level (L _p A)	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

Cab

Flexibly mounted • 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 stowable under the cab roof • Second seat for mate

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

Swing assembly

Swing motor	axial piston motor with priority valve
Swing gear	planetary reduction
Swing brake*	multi-disc brake
Drive via an internally toothed swing bearing	
Swing speed	8.5 rpm
Swing 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	Road	Rail
Crawling speed	0 - 1.3 km/hour	0 - 3.5 km/hour
Off-road speed	0 - 5.6 km/hour	0 - 10.9 km/hour
Highway speed	0 - 20 km/hour	0 - 40 km/hour

Tires

4 x (Tread: Titan)	12.00 - 20
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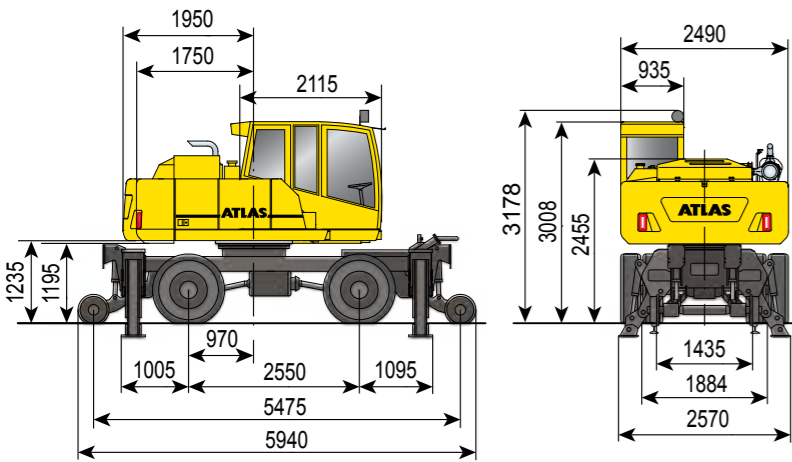
Weight

Opera	17 - 19t
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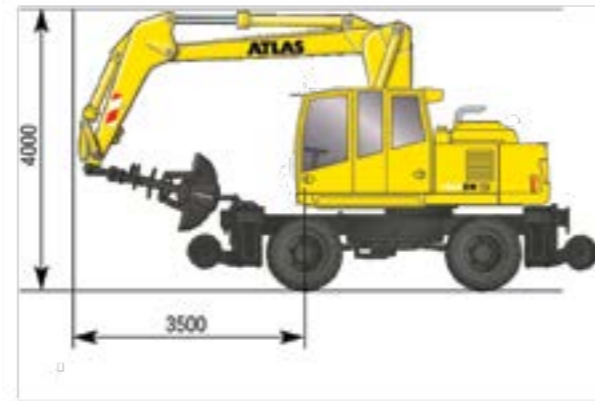
TECHNICAL SPECIFICATION SHEET

RAIL-ROAD EXCAVATOR 1604ZW

Main dimensions



Travel configuration with grab



Working equipment:

Base machine	Weight/kg	Standard equipment
A67.5 Rail-Road hydraulic excavator 1604 ZW, with 4 outriggers, tailswing 1750 mm	18100	<ul style="list-style-type: none"> Narrow axles for underground and suburban railways
Additional and special equipment		
B66.41 Hose-rupture safety device for lifting cylinder, overload warning device	10	<ul style="list-style-type: none"> Central lubrication Maintenance point for filtration system
B67.20 Counterweight, tailswing 1950 mm	0	<ul style="list-style-type: none"> Proportional Grab-rotation
B66.39 Additional hydraulic unit for variable boom cylinder	20	<ul style="list-style-type: none"> Hydraulic system for grab and grab rotation function Tank indicator
B41.23 Two man fully glazed cab	300	<ul style="list-style-type: none"> Battery main switch in negative lead "Travel" function via foot control Accumulator for emergency lowering of boom system
Base section of arm and boom		
C67.41P Base arm with two lift cylinders and an internally mounted operating cylinder	1350	<ul style="list-style-type: none"> Traction increase
C66.46 Boom with articulating cylinder only for base arm C67.41P, working length 3300 mm	930	<ul style="list-style-type: none"> Sliding window in cab door Power shift transmission Windshield washer system Tilt and height adjustable steering column Radio pre-installation Storage box in the cab Comfort seat with armrests and lumbar support Toolbox on chassis Sealed pivot points in the base section of the boom Boom and stick with 50 hour maintenance intervals Securing lug for securing the grab during road travel Air-conditioning Air dryer for compressed air system
Sticks		
D67.22 Rail-road excavator stick, working length 2240 mm	600	
Bucket tipping cylinder		
F66.1 Bucket tipping cylinder with reversing linkage	180	

TECHNICAL SPECIFICATION SHEET

RAIL-ROAD EXCAVATOR 1604ZW

Engine

Power rating acc. to ISO 1585	115 kW (157 HP)
Manufacturer	Deutz
Type	TCD 4.1 (Stage Tier 3B)
Displacement	4000 cm ³
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

Hydraulic system	1 x AKP
Main pump	HPR 210
Max. flow variable capacity pump	380 l/min
Max. operating pressure for operating movements	340 bar

Noise level

Noise level* is significantly below EC limits	
Ambience level (L _{WA})	97 dB (A)
Cab level (L _{WA})	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

Fluid capacities

Fuel tank	260 l
Hydraulic tank	300 l
Engine oil	10 l

Cab

Flexibly mounted • 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 stowable under the cab roof • Second seat for mate

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

Swing mechanism

Swing motor	axial piston motor with priority valve
Swing gear	planetary reduction
Swing brake	multi-disc brake
Drive via an internally toothed swing bearing	
Swing speed	9 rpm
Swing torque	59 kNm

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
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SAFE. POWERFUL. RELIABLE.

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

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.



THE RIGHT CHOICE EVERY TIME



As option available: Hydrostatic Drive at 1604 ZW with track width 1000 / 1435 mm track width. Perfect setting for permanent - brake controlled - high ride drive on tracks to prevent damage and excessive wear of the tyres.



As option available: Friction Drive System available for 1404 ZW with track width 1000, 1435 and 1524 mm.



CARSY System available for 1404 / 1604 ZW with track width 1435 / 1524 and 1600 mm.



PRODUCT RANGE

HYDRAULIC CUTTING UNITS



A CUTTER FOR EVERY APPLICATION

Reliable, efficient and economical, the modular system of hydraulic motors, cutting heads and picks makes SCHAEFF Cutters the ultimate tool that is easily adapted to a wide range of applications and carriers.

SOIL PREPARATION / MIXING



LANDSCAPING / TREE STUMP CUTTING



TRENCH AND PIPELINE CONSTRUCTION



SENSITIVE APPLICATIONS



UNDERWATER CUTTING



TUNNEL CONSTRUCTION



DEMOLITION / CONCRETE / BUILDING RENOVATION



PROFILING / LEVELLING



ROADBUILDING



PLANING



EXPAND THE POSSIBILITIES

SCHAEFF® Transverse Cutters can be operated with a rotator unit. This combination expands its field of operation and increases productivity.

360°

The cutter can be rotated (360°) for precision demolition in trenches and tunnels. It offers accurate positioning in angles and corners and precision working on wall surfaces. Because the cutter can be accurately positioned, even sensitive demolition work is manageable.

The rotator unit always positions the cutter head in the optimum working position for the most effective cutting. This significantly increases overall productivity. It also reduces wear to the picks and means less stress on the excavator's boom.



What this means for you:

- ❗ Models from 18 - 90 kW, for excavators of 5 - 35 t.
- ❗ Higher cutting performance, especially in trench and tunnel construction.
- ❗ Saves time – no need to reposition the excavator.
- ❗ Very economical for profiling.
- ❗ One rotator unit for a range of cutters and attachments, e.g. buckets, hammers and grabs.

Fast, infinite and smooth variable rotation for short work cycles.

Angled connecting plate allows side clearance when cutter is rotated.

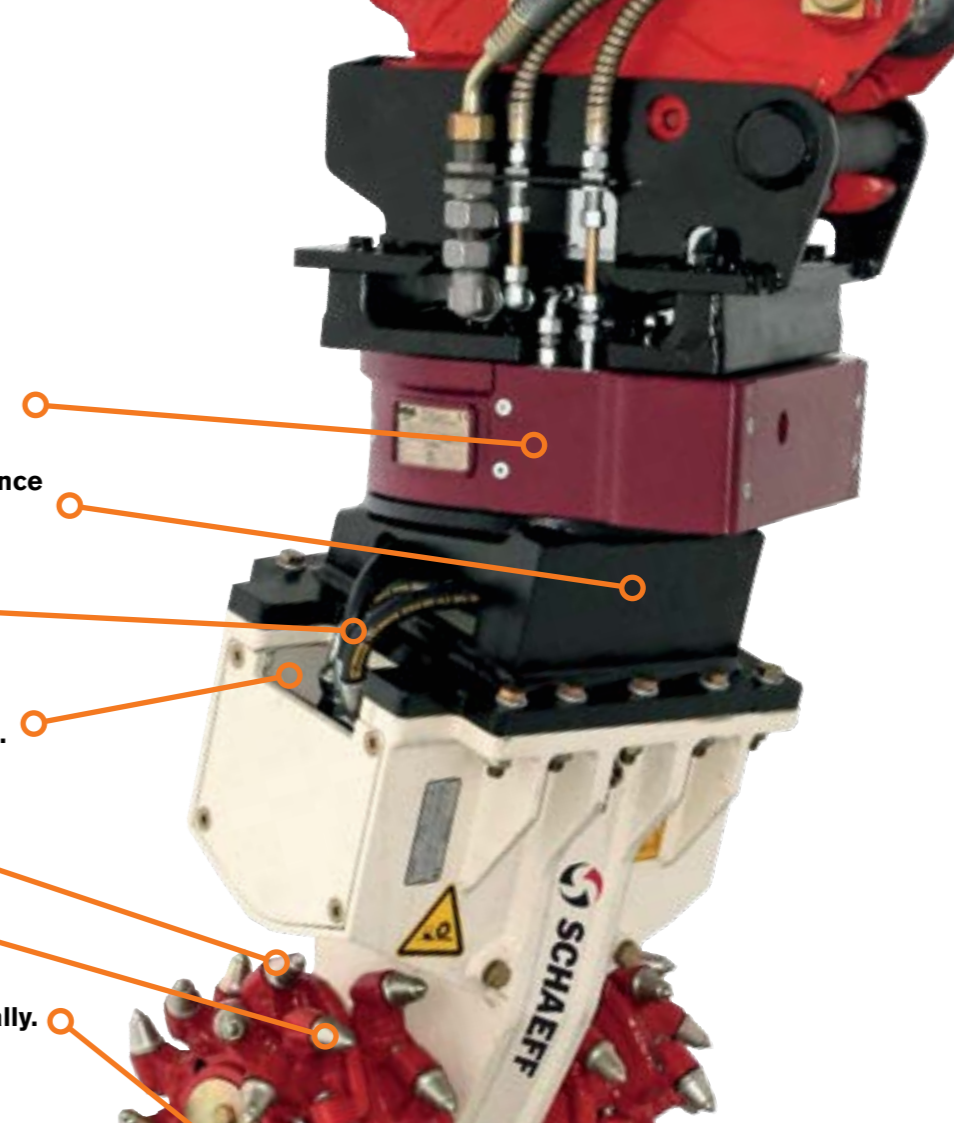
Integrated rotary feedthrough for maximum oil flow and high operating pressures (up to 350 bar).

Resilient: the rugged housing protects the hydraulic motor and lines from damage.

Accurate head positioning means less pick wear and stress to the carrier.

Selection of cutting drums and picks.

Economical – modular design means every component can be replaced individually.

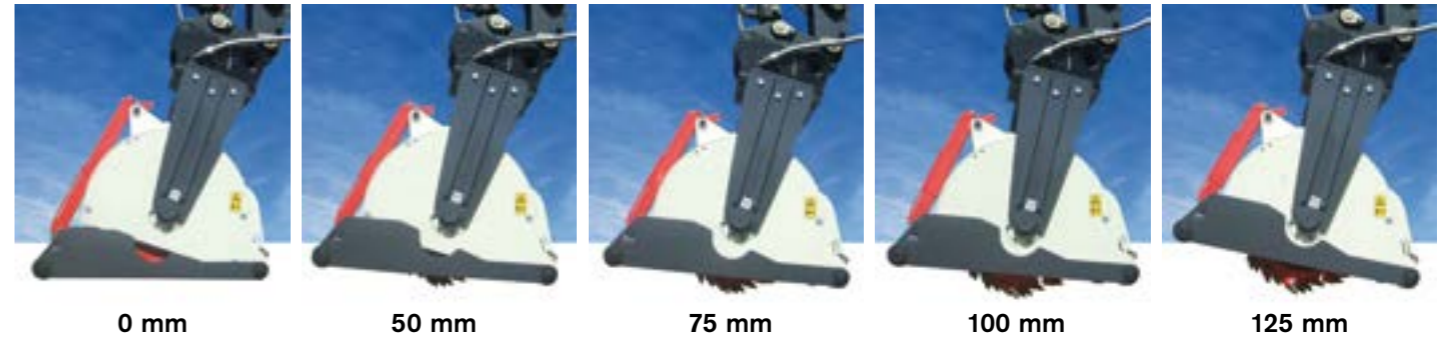
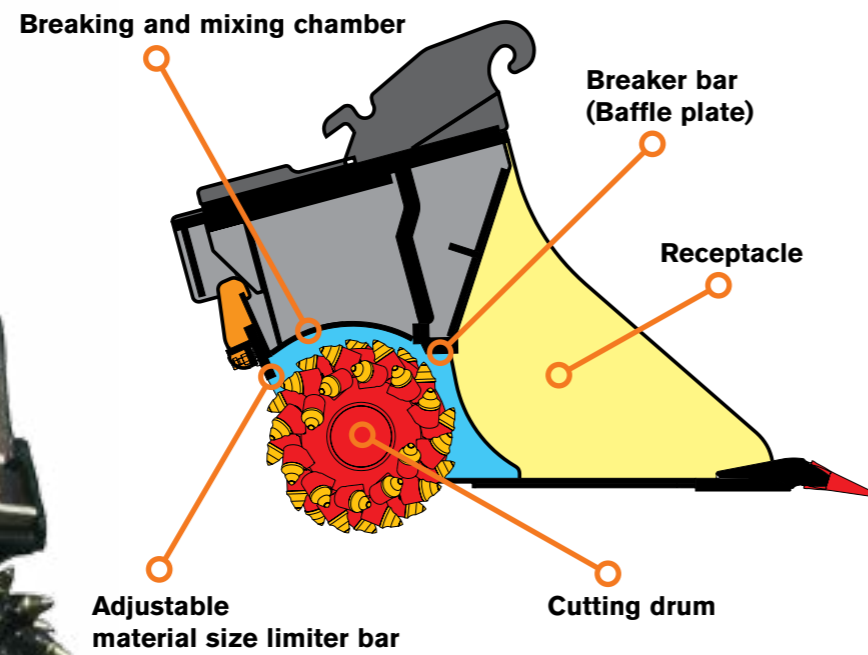




What this means for you:

- ! High productivity: work horizontally, vertically, at an incline or overhead.
- ! Cost-effective due to direct re-use of the cut material.
- ! Cutting drum and swivel arm bearing offer high load-carrying capacity and long service life.

CUTTING DEPTH CAN BE CONTINUOUSLY ADJUSTED



SPECIFICATIONS AT A GLANCE

TRANSVERSE CUTTING UNITS

Attachment	Operating weight kg (lbs)	Hydraulic input power kW (hp)	Required hydraulic oil flow l/min (gpm)	Recommended excavator size t (US tons)
WS15N	280 (620)	18/22 (24/30)	30 - 65 (8 - 17)	2 - 8 (3 - 9)
WS30N	420 (930)	30 (40)	70 - 120 (18 - 31)	8 - 15 (8 - 19)
WS45N	850 (1900)	45 (60)	100 - 190 (27 - 50)	12 - 20 (13 - 22)
WS60N	1400 (3100)	60 (80)	120 - 210 (32 - 55)	18 - 30 (20 - 33)
WS90N	1460 (3200)	90 (120)	240 - 340 (63 - 90)	25 - 35 (27 - 39)
WS120N	2600 (5700)	120 (160)	250 - 500 (66 - 132)	30 - 45 (33 - 50)
WS150N	2800 (6200)	140 (190)	360 - 550 (95 - 145)	40 - 60 (44 - 66)

CUTTERS WITH ROTATOR

Attachment	Operating weight kg (lbs)	Hydraulic input power kW (hp)	Required hydraulic oil quantity l/min (gpm)	Recommended excavator size t (US tons)
WS15N + RT121	400 (880)	18/22 (24/30)	30 - 65 (8 - 17)	5 - 8 (5.5 - 9)
WS30N + RT121	580 (1300)	30 (40)	70 - 120 (18 - 31)	8 - 15 (8 - 19)
WS45N + RT201	1100 (2450)	45 (60)	100 - 190 (27 - 50)	12 - 20 (13 - 22)
WS60N + RT301	1800 (4000)	60 (80)	120 - 210 (32 - 55)	18 - 30 (20 - 33)
WS90N + RT301	1860 (4100)	90 (120)	240 - 340 (63 - 90)	25 - 35 (27 - 39)

CUTTER BUCKET

Attachment	Operating weight kg (lbs)	Hydraulic input power kW (hp)	Required hydraulic oil flow l/min (gpm)	Bucket width mm (in)	Recommended excavator size t (US tons)
WS15-FL450	480 (1050)	18/22 (24/30)	30 - 65 (8 - 17)	450 (17.5)	4 - 8 (4 - 9)
WS30-FL600	850 (1900)	30 (40)	60 - 120 (18 - 31)	600 (23.4)	8 - 15 (8 - 17)
WS45-FL650	1900 (4200)	45 (60)	100 - 190 (27 - 50)	650 (25.3)	14 - 20 (13 - 22)
WS60-FL800	2800 (6200)	60 (80)	120 - 210 (32 - 55)	820 (32.3)	18 - 30 (20 - 33)
WS90-FL800	2900 (6400)	90 (120)	240 - 340 (63 - 90)	820 (32.3)	25 - 35 (27 - 39)
WS120-FL1000	4300 (9500)	110 (148)	260 - 500 (66 - 132)	1000 (39)	35 - 45 (33 - 50)

PATCH PLANERS

Attachment	Operating weight kg (lbs)	Min. required hydraulic power ² kW (hp)	Recommended hydraulic oil flow ¹ l/min (gpm)	Cutting width mm (in)	Recommended excavator size t (US tons)
TPP300	450 (990)	18 (24)	60 - 90 (18 - 24)	300 (11.8)	5 - 8 (5 - 9)
TPP450	600 (1300)	30 (40)	90 - 125 (24 - 33)	450 (17.7)	8 - 14 (8 - 15)
TPP600	800 (1750)	36 (48)	120 - 190 (31 - 50)	600 (23.6)	12 - 18 (13 - 20)

(1) Operating pressure and oil flow proportionate to each other · (2) Min. required hydraulic power from excavator control circuit to cutter

PRODUCT RANGE

HEAVY WHEEL LOADERS



PRODUCTIVE AND POWERFUL



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

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

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.

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

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

Continuously variable travelling speed up to 40Km/h for reduced journey times.

High-performance steel chassis with outstanding ground clearance for access to the toughest job sites.

Low wear multi-disc brakes integrated in the axles providing protection from dirt and damage.

IN A CLASS OF THEIR OWN

KAELBLE 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



▶ **L420**

Operating weight 23,200 kg
 Engine power 216 kW (294 HP)
 Bucket capacity 4.2 m³



▶ **L450**

Operating weight 24,000 kg
 Engine power 250 kW (335 HP)
 Bucket capacity 4.5 m³



HIGHER FURTHER

The KAEUBLE 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 KAEUBLE 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 KAEUBLE 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

Extended lifting frame*

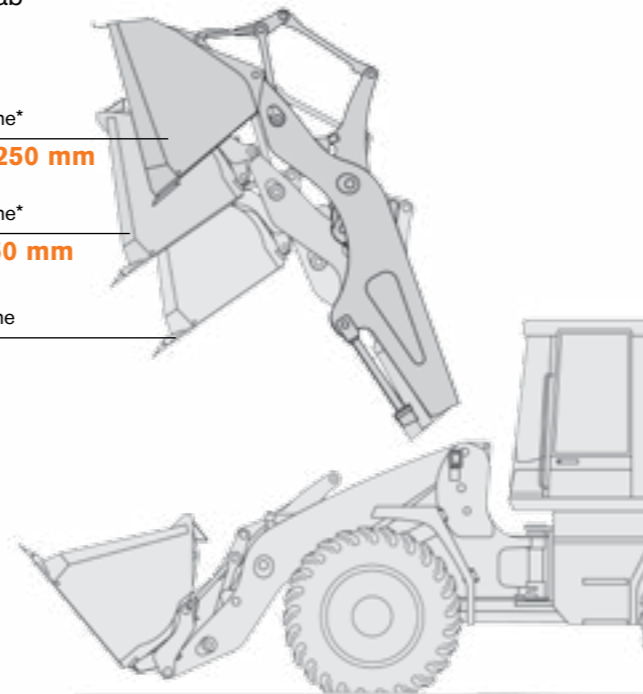
Increase of 1,250 mm

Extended lifting frame*

Increase of 650 mm

Standard lifting frame

* from L210



ATLAS

LOADER CRANES | 13 to 620 kNm

LOADER CRANES

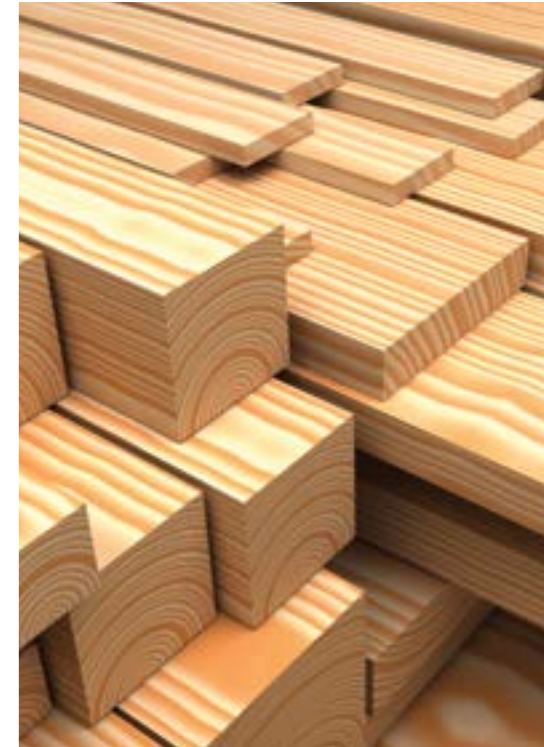
Powerful Sensitive Robust





Lifting was never so easy

The right crane for any task and for any truck: we will supply you with the full line from 13 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.



The product portfolio

Small cranes – from 13 to 56 kNm Lightweight. Simple. Slimline.

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.

Great flexibility in use

- Landscaping
- Authorities
- Building material
- Delivery
- Checking wells
- Checking operation

Medium cranes – from 65 to 240 kNm Flexible. Compact. Sensitive.

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





ATLAS CRANES UK LTD

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**
- **CALLS RECORDED**
- **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

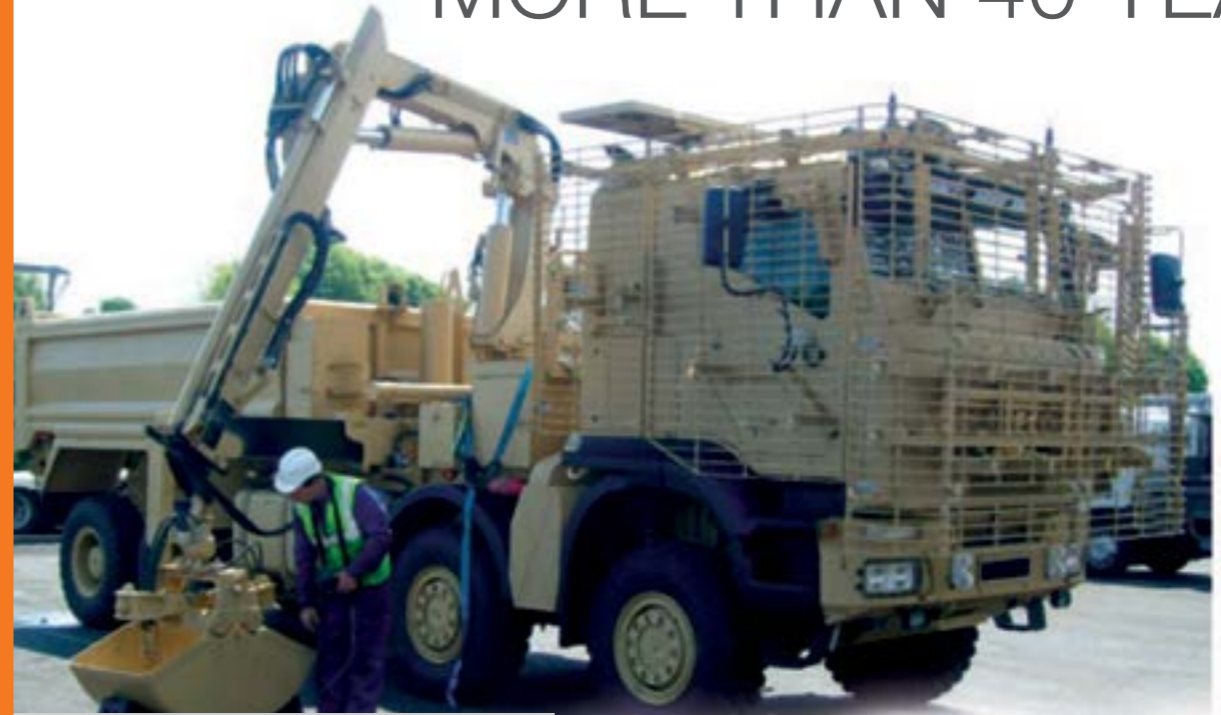
HEALTH & SAFETY – WORKING AT HEIGHT

- 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®

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

REFURBISHMENT AND REPAIR



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.



TRUCK MOUNTED LOADER (TML)



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





Fig. 1

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 3 | Rear suspend tow. Saxon APC.

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

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





Fig. 5



Fig. 7

SuperCompact

Fig 5 | SuperCompact with 'swing-away' towing pintle deployed. Demonstrated towing Warrior on Hollebhone 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 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.



Fig. 6



Fig. 8



Fig. 9

Fig.10



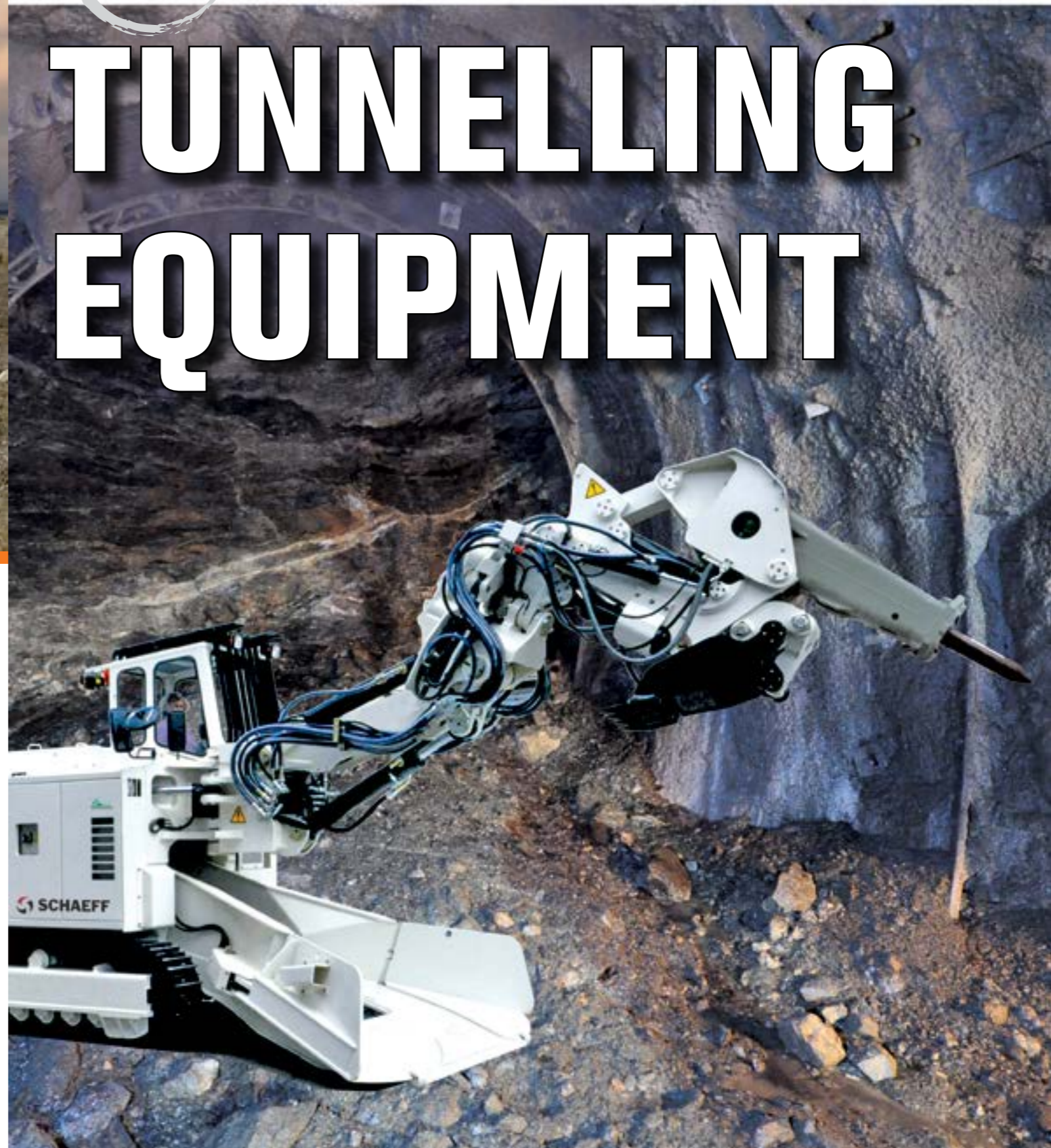
PRODUCT RANGE



SCHAEFF

Produced by KAELBLE GmbH

TUNNELLING EQUIPMENT



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 889818 or visit www.ekalimited.com

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.



MAKING A BREAKTHROUGH

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



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.



TUNNEL EXCAVATORS



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

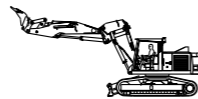
RAIL BALLAST LOADING MACHINES



Years of experience in the development of high performance ballast loading machines for reconstructing railway track foundations.

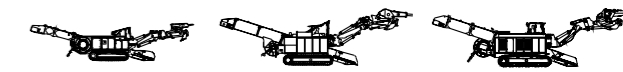


TUNNEL EXCAVATORS



Type		TE210	TE210 E
Recommended excavation cross section	m ²	25 - 60	25 - 60
Machine width	mm	2700	2700
Engine power	kW	Diesel 165	Electric 132
Travelling speed, max.	km/h	5.0	5.0
Rock breaker/attachment weight	kg	1400	1400
Gross machine weight, approx.	t	28 - 32	28 - 32
Cable reel, capacity	m	60	60

HAMMER TUNNELLING MACHINES



Type		ITC120 F2	ITC312 H6	ITC320 V45
Recommended excavation cross section	m ²	10 - 20	15 - 30	20 - 50
Machine width	mm	1900	2400	2700
Conveyor width	mm	620	800	800
Diesel drive power	kW	74	165	224
Electric drive power (400 V)	kW	55	90	160
Travelling speed, max.	km/h	3.5	5.0	3.1
Loading capacity up to	m ³ /min	1 - 2	2 - 3	2 - 3
Rock breaker/attachment weight	kg	850	1500	2600
Gross machine weight, approx.	t	25	38	50

SPECIAL MACHINES



Type		ITC312-VL	TC48 E	TC16 Twin Drive
Machine width	mm	2410	1860	990 - 1340
Conveyor width	mm	800	-	-
Diesel drive power	kW	200	-	13
Electric drive power (400 V)	kW	-	22	11
Travelling speed, max.	km/h	5.0	2.9	2.4
Loading capacity up to	m ³ /min	3 - 4	-	-
Rock breaker/attachment weight	kg	700	300	-
Gross machine weight, approx.	t	36	5.3	1.9
Cable reel, capacity	m	-	30	15

TUNNEL HEADING MACHINES



Type		ITC120 F1 / ITC120 F3	ITC312 H1
Recommended excavation cross section	m ²	9 - 20	12 - 30
Machine width	mm	1900	2400
Conveyor width	mm	620	800
Diesel drive power	kW	74	165
Electric drive power (400 V)	kW	55	90
Travelling speed, max.	km/h	3.5	5.0
Loading capacity up to	m ³ /min	1 - 2	2 - 3
Rock breaker/attachment weight	kg	600	1000
Gross machine weight, approx.	t	24	36

HYDRAULIC CUTTING UNITS



Type		WS15N	WS30N	WS45N
Rated hydraulic power	kW	18/22	30	45
Required hydraulic oil quantity	l/min	30 - 65	70 - 120	100 - 190
Cutting head width	mm	550	630	750
Weight, approx.	kg	280	420	850
Recommended excavator service weight	t	2 - 8	8 - 15	12 - 20



Type		WS60N	WS90N	WS120N	WS150N
Rated hydraulic power	kW	60	90	120	140
Required hydraulic oil quantity	l/min	120 - 210	240 - 340	250 - 500	360 - 550
Cutting head width	mm	900	900	1200	1400
Weight, approx.	kg	1400	1460	2600	2800
Recommended excavator service weight	t	18 - 30	25 - 35	30 - 45	40 - 60

TUNNEL LOADING MACHINES



Type		ITC120 F4	ITC312 H3	ITC312-SL
Recommended excavation cross section	m ²	9 - 20	12 - 30	18 - 50
Machine width	mm	1900	2400	2750
Conveyor width	mm	620	800	1000
Diesel drive power	kW	74	165	165
Electric drive power (400 V)	kW	55	90	110
Travelling speed, max.	km/h	3.5	5.0	4.8
Loading capacity up to	m ³ /min	2 - 3	3 - 5	5 - 12
Rock breaker/attachment weight	kg	600	1000	1000
Gross machine weight, approx.	t	21	35	40

Standard data - deviations in terms of equipment packages and/or country standards are possible.



S20

SHAFT EXCAVATOR



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

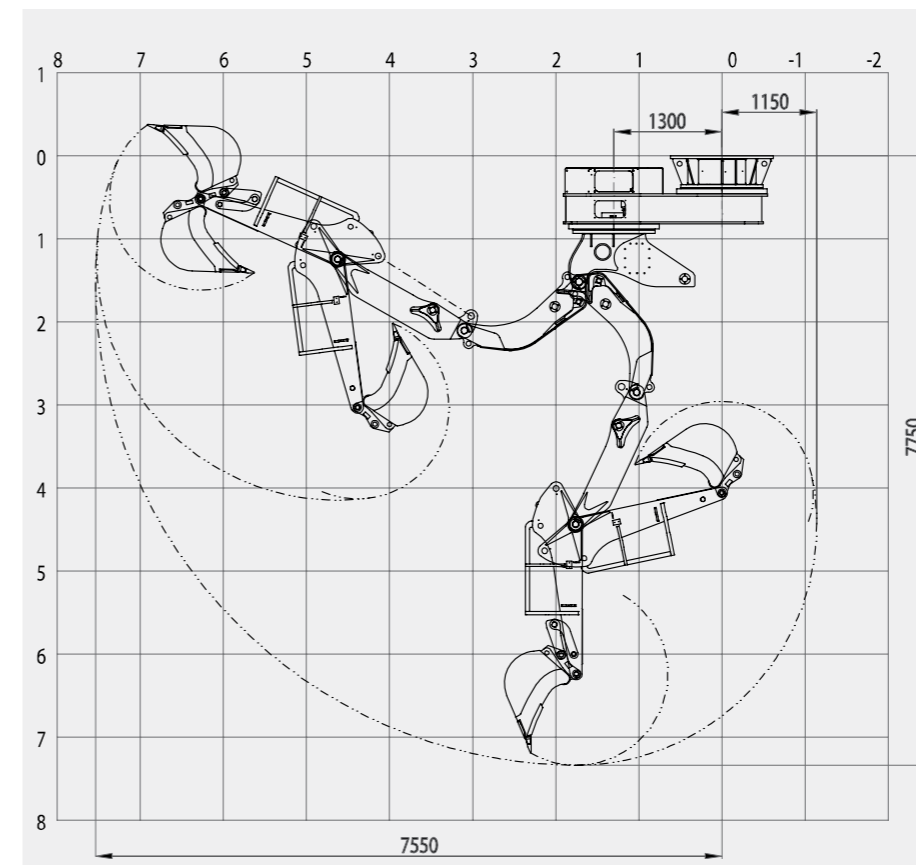
Hydraulic cutter unit

Rock bucket



DIGGING ARC

View drawn without cabin



ATLAS PARTS

KRANE & BAGGER ERSATZTEILE



CRANES &
EXCAVATORS
PARTS



WWW.SPSGMBH.COM



CRANES & EXCAVATORS PARTS



"IT TAKES EXCELLENT SERVICE TO MAKE AN EXCELLENT PRODUCT PERFECT"

and that exactly is the service SPS provides by prompt delivery of spare parts for the maintenance and repair of your ATLAS machines.

More than 30,000 different spare parts for ATLAS excavators and cranes are kept in stock on 5,600m² of warehouse space and we service machines over 60 years old.

In case your responsible distributor does not have the required spare part in stock, we deliver 94% of all orders within 24 hours from our central warehouse. We guarantee same-day shipment in Germany if the order is placed by 16:30h, by 16:00h within Europe.

You live outside the EU? In that case we guarantee shipment on the same day if you order by 15:00h.

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.



WE ARE COMMITTED TO PROVIDING OUR CUSTOMERS WITH HIGHEST QUALITY PRODUCTS AND SERVICES.



OUR COMPANY'S MISSION

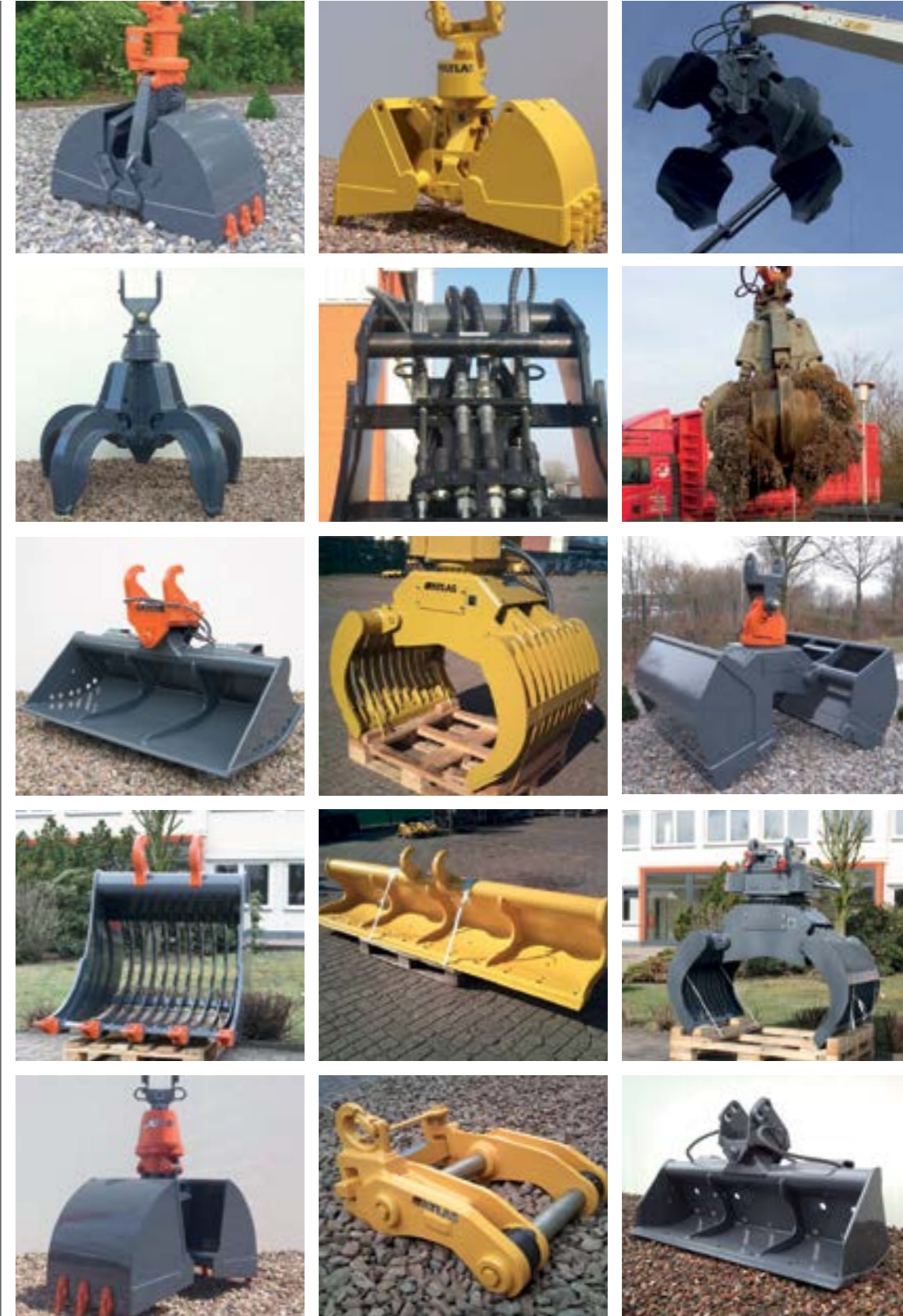
goals and objectives are directed towards ongoing process improvement as a basis for strengthening our competitive position and for improving product quality and service standards. Quality standards and customer satisfaction will be measured in terms of product performance and reliability.



ATLAS

ATLAS ACCESSORY EQUIPMENT for excavators

ACCESSORY EQUIPMENT



Attachments for hydraulic excavators

Quick change devices (QCD)

suitable for articulated jibs with a dipper-tipping cylinder and a reverse gear for changing the dipper (bucket) with a dipper (bucket), the bucket with a grab or the grab with another grab

Material no.	Type designation	Arm width (mm)	Bolt Ø	with ... T Load hook	Excavator Size T	Weight KG
4108416	T4.20	105	35	without	1 - 2	20
3198025	T8.20	150	40	without	3 - 5	29
2521300	T 11.20	168	50	without	6 - 11	35
4545448	T 620V	268	60	10	9 - 23	103
6141104	T620SMP2-STD	268	60	10	9 - 23	90
6139674	T620SMP2-EURO	268	60	10	9 - 23	98
4538358	T 620H	268	60	10	9 - 23	130
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						
5445449	T63.20-270	268	60	10	9 - 23	181
suitable for work attachments with connection T63.20						
6112694	T63.20H-270	268	60	10	9 - 23	215
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						
4568445	T 63.20	300	80	10	17 - 26	188
4568456	T 63.20H	300	80	10	17 - 26	215
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						
6127030	T63.20-311	311	80	10	17 - 26	195
suitable for work attachments with connection T63.20						
6127051	T63.20H-311	311	80	10	17 - 26	220
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						
4551037	T 620-300	300	80	10	17 - 26	105
suitable for work attachments with connection T620						
5448022	T 620H-300	300	80	10	17 - 26	105
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						
6116761	T620-311	311	80	10	17 - 26	135
suitable for work attachments with connection T620						
6104952	T620H-311	311	80	10	17 - 26	200
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						
4541320	T 722	forked	80	10	22 - 35	253
4541400	T 722 H	forked	80	10	22 - 35	275
with hydraulic latching; a hydraulic attachment kit for excavators is required. (in conjunction with a SW (quick-coupler) joint plate and a SW (quick-coupler) load hook, a wedge with a wrench, material no. 5411278, is required)						



T620V



T63.20H

Attachments for hydraulic excavators

Quick change devices for changing the grab with a grab

Material no.	Type designation	Arm width (mm)	Bolt Ø	with ... T Load hook	Excavator Size T	Weight KG
1491130	T610	268	60		12 - 23	30
Bolts, a wedge and a wrench, bolts with centring sleeves for the holder of the quick change joint plate, load hook, etc.						
4568467	T63.10	300	80		17 - 26	32
Bolts, a wedge and a wrench, bolts with centring sleeves for the holder of the quick change joint plate, load hook, etc.						
5411267	T713	345	80		26 - 50	24
Bolts and a wrench, bolts with centring sleeves for the holder of the quick change joint plate, load hook, etc.						
5411278	wedge with a wrench					12

Original Lehnhoff quick coupler

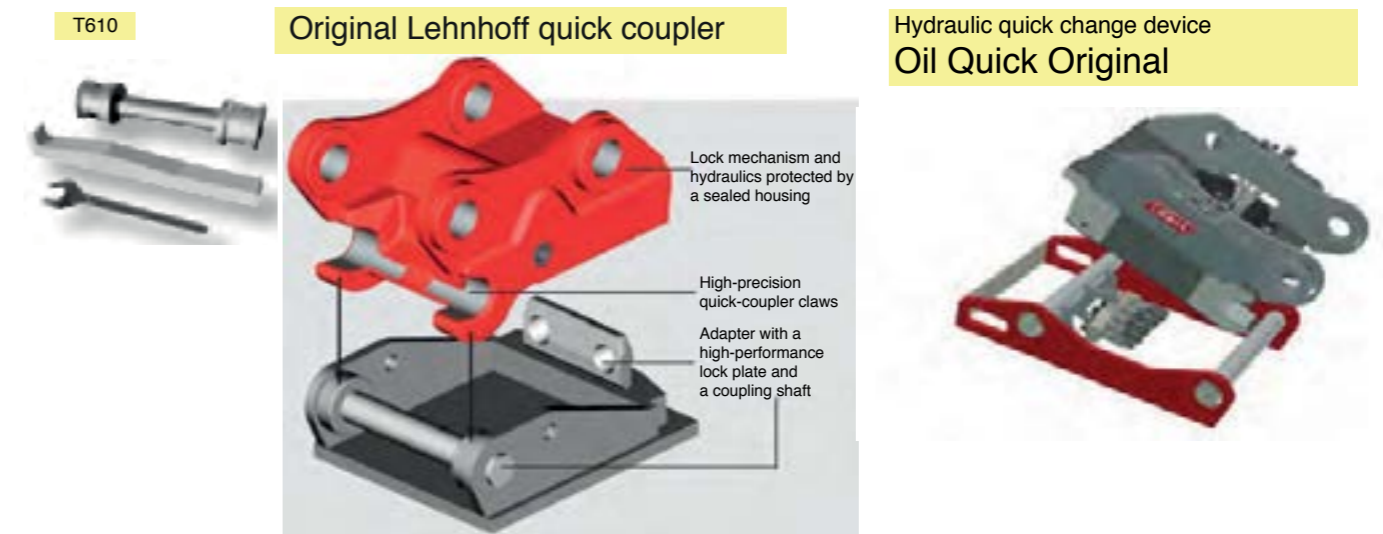
6055699	MS10-270	268	60	without	12 - 23	170
6067588	MS10-270 LH5	268	60	5	12 - 23	170
6071058	HS10-270	268	60	without	12 - 23	170
6149600	HS10-270 LH5	268	60	5	12 - 23	170
6057265	MS10-300	300	80	without	17 - 25	170
6147275	HS10-300 LH10	300	80	10	17 - 25	190
6093487	MS21-270	268	60	without	17 - 25	270
6152916	MS21-270 LH10	268	60	10	17 - 25	270
6092688	MS21-300	300	80	without	22 - 35	270
6090407	MS21-300 LH10	300	80	10	22 - 35	270
6093987	HS21-300	300	80	without	22 - 35	270
6055712	MS21-311	311	80	without	22 - 35	270
6104102	HS21-311	311	80	without	22 - 35	270

Original Lehnhoff quick coupler - loose

6150119	SWE OQ65 270-60	268	60	10	12 - 22
6157484	SWE OQ65 300-80	300	80	10	12 - 22
6158079	SWE OQ65 311-80	311	80	10	12 - 22
6148988	SWE OQ70/55 270-80	268	60	10	18 - 30
6150150	SWE OQ70/55 300-80	300	80	10	18 - 30
6096815	SWE OQ70/55 311-80	311	80	10	18 - 30

Oil Quick Original quick coupler - mounted to the excavator.

6160392	SWE OQ65 270-60	268	60	10	12 - 22
6161197	SWE OQ65 300-80	300	80	10	12 - 22
6161198	SWE OQ65 311-80	311	80	10	12 - 22
6161231	SWE OQ70/55 270-80	268	60	10	18 - 30
6161234	SWE OQ70/55 300-80	300	80	10	18 - 30
6161235	SWE OQ70/55 311-80	311	80	10	18 - 30



Attachments for hydraulic excavators

Articulation pieces - ATLAS - quick change , connection between the articulated jib end and the grab rotation gear

Material no.	Type designation	suitable for SWE (quick change devices)	suitable for	Weight KG
3132265	T 11.40	T11.20	without wedge E 11.2, E11.32 6 - 11	40
6011101	T 630	T620V , T 620 H, T610	without wedge E 12, E 31.2, E32, E332 12 - 23	62
3105911	T630 S GER.PLATTE	T620V , T 620 H, T610	without wedge 12 - 23	44
6141102	T630SMP2-STD	T620SMP2-STD	with wedge E 12, E 31.2,E32,E332 12 - 23	82
6139673	T630SMP2-EURO	T620SMP2-EURO	with wedge E 12, E 31.2,E32,E332 12 - 23	90
4568489	T 63.31	T63.20 , T 63.20 H	without wedge E 12, E 31.2, E32, E332 17 - 26	90
4568003	T 63.34	T63.20 , T 63.20 H	without wedge E2.62, E713, E732 E732-2 17 - 26	105
4578174	T 730	T620V , T 620 H	without wedge E2.62, E713, E732 E732-2 17 - 26	71
4528618	T 731	T722 , T722H	with wedge E2.62, E713, E732 E732-2 17 - 35	118
4516772	T 733	T713	with wedge E 12, E 31.2, E32, E332 17 - 35	84
3510876	T 734	T713	with wedge E2.62, E713, E732 E732-2 26 - 50	89
4540738	T 832	T713	with wedge E832-2 26 - 50	126

Grab adaptations: Verachttert

6119390	GA-CW20-40BR-E32	CW20 - 40br	wide version E12, E32, E332 10 - 19	100
6160617	GA-CW20-40BR-E2.62	CW20 - 40br	wide version E2.62, E713, E732 E732-2 26 - 50	150

Grab adaptations: Lehnhoff

6128022	GA-MS01-E4.2	MS01 / HS01	E4.2 1 - 2	21
6128191	GA-MS03-E8.2	MS03 / HS03	E8.2 3-5	35
6068804	GA-MS08-E11.2	MS08 / HS08	E11.2, E11.32 6 - 11	65
6142003	GA-MS08-E12	MS08 / HS08	E12, E32, E332 5 - 12	65
6132361	GA-MS10-E32	MS10 / HS10	E12, E32, E332 10 - 19	200
6132350	GA-MS21-E32	MS21 / HS21	E12, E32, E332 19 - 26	205
6135913	GA-MS21/25-E2.62	MS21 / HS21	E2.62, E732, E732-2 19 - 35	205

Grab adaptations: Oilquick

6140596	GA-OQ65-T31	OQ 65	T31 required. E12, E32, E332 12 - 23	120
6140951	GA-OQ70-55-T31	OQ 70-55	T31 required. E12, E32, E332 12 - 23	150
6152199	GA-OQ70-55-T64	OQ 70-55	T64 required. E2.62, E732, E732-2 19 - 35	155

additional quick couplers (SW) - grab adaptations for Lehnhoff, Verachttert and Oilquick - can be supplied upon request!



T630



T832



GA MS03 - E8.2



GA MS08 - E11.2

Attachments for hydraulic excavators

Articulation pieces - permanent installation, connection between the articulated jib end and a grab rotation gear

Material no.	Type designation	Arm width (mm)	Bolt Ø	suitable for	Excavator Size T	Weight KG
3523462	T 4.2	110	35	E4.2	1 - 2	4
3135600	T 8.2	150	40	E8.2	3 - 5	9
2593748	T 11.4	168	50	E11.2, E11.32	6 - 11	15
3168530	T21	268	60	E11.2, E11.32	9 - 22	21
1586714	T 31	268	60	E 12,E 31.2,E 32,E 332	12 - 23	25
1572810	T 35	268	60	E 12, E 31.2,E32,E332	12 - 23	36
1572832	T 36	268	60	E 12,E 31.2,E 32,E 332	12 - 23	36
2228779	T 64	268	60	E2.62, E713, E732	17 - 26	60
1572854	T2.61	290	60	E2.62, E713, E732	17 - 26	65
1572876	T2.62	290	60	E 12, E 31.2,E32,E332	17 - 23	41
5401743	T 63.01	300	80	E 12,E 31.2,E 32,E 332	17 - 23	57
4568490	T 63.04	300	80	E2.62, E713, E732 E732-2	17 - 26	54
1572912	T 71	forked	80	E2.62, E713, E732 E732-2	17 - 35	60
1572898	T 72	345	80	E2.62, E713, E732 E732-2	17 - 35	55
6104916	T72-311	Industrial articulated jibs 311	80	E2.62, E713, E732 E732-2	17 - 35	81
3189057	T 81	forked	80	E832-2	26 - 50	105
3167460	T 82	Industrial articulated jibs 345	80	E832-2	26 - 50	121



T11.4



T31



T72



T82

Grab rotation gear, hydraulically advancing by an oil engine, capable of rotation

Material no.	Type designation	Excavator Size T	Weight KG
6135920	E4.2	without a grab cylinder	1 - 2 19
3175200	E8.2	with a grab cylinder	3 - 5 90
4512507	E 11.2	with a grab cylinder	6 - 11 140
4513042	E 11.32	without a grab cylinder	6 - 11 65
6030688	E 12	with a grab cylinder	10 - 15 200
6030684	E 31.2	with a grab cylinder	12 - 23 215
6014722	E 32	with a grab cylinder	12 - 23 230
6015121	E 332	without a grab cylinder	12 - 23 95
4514190	E 2.62	with a grab cylinder	17 - 35 340
3593999	E713	with a grab cylinder, for a deep-grab gear suitable for all kinds of E32 grabs, E35 - E310.5 E714 is required as extension	17 - 35 320
4515511	E 732	without a grab cylinder	17 - 35 150
5453052	E732-2	without a grab cylinder, with 2 electric motors for rotary movement	17 - 35 170
6077949	E 832-2	without a grab cylinder, with 2 electric motors for rotary movement	25 - 50 200



E4.2



E11.2



E12



E31.2



E32



E2.62



E732

Attachments for hydraulic excavators

Hydraulic package (compl. SL-connection, articulated jib - grab rotation gear with SV-couplings)

Material no.	Type designation	Grab rotation gear	Articulation piece SW (quick coupler) articulation piece	ATLAS Excavator	Arm width (mm)	SL - size and length
3173628	HP.F.E8.2 - T8.4	E 8.2	T8.2	804	150	SL 8 x 1600 SL 10 x 1600
3168392	HP F E11.2 - T11.4	E 11.2, E11.32	T11.4 T21	1004 1104, 1204	168 268	SL 10 x 1350 SL 16 x 1500
5440126	HP.F.E11.2 -T11.40	E 11.2, E11.32	T 11.40	1004	168	SL 10 x 1350 SL 16 x 1500
5416137	HP.F.E12 - T31	E 12	T 31	1104/1204	268	SL 10 x 1600 SL 16 x 1600
5412393	HP.F.E12 - T630	E 12	T 630	1104/1204	268	SL 10 x 1600 SL 16 x 1700
5441514	HP.F.E32 - T31	E 32, E 332, E 31.2	T 31, T 35	12-1605,1604 /1705 130W-170W	268	SL 10 x 1600 SL 20 x 1700
5400742	HP.F.E32 - T630	E 32, E 332, E 31.2	T 630	12-1605,1604 /1705 130W-170W	268	SL 10 x 1600 SL 20 x 1800
5404008	HP.F.E32 - T63.01	E 32, E 332	T 63.01, T63.31	1605,1705,1805,1905 190W, 220W	300	SL 10 x 2000 SL 20 x 1800
5404031	HP.F.E2.62 - T64	E 2.62,E 732,E732-2	T 64, T 730	130-170W 1705 (T620-300) 190W, 220W (T620-300)	268 (300)	SL 10 x 1600 SL 20 x 2000
5401709	HP.F.E2.62 - T63.04	E 2.62,E 732,E732-2	T 63.04, T63.34	2005,2205 190W, 220W	300	SL 10 x 1800 SL 20 x 2000
5404019	HP.F.E2.62 - T71	E 2.62, E72 E 732, E732-2, E 832-2	T71, T731, T81, T 831	1704 - 1804	forked	SL 10 x 2300 SL 20 x 2300
5412439	HP.F.E2.62 - T72	E 2.62, E72 E 732, E732-2, E 832-2	T72, T 734, T82	1704,1804. Indust. and telescopic 270MH,350MH	345	SL 10 x 1600 SL 20 x 1600
3178645	HP.F.E732 - T64	E 32, E 332, E 31.2 E 2.62,E 732,E732-2	T 36, T 630 T64 , T 730	1304-1705 1705 Indust. and telescopic 180MH,200MH	268	SL 10 x 1800 SL 20 x 1700
6079002	HP.F.E732 - T64 MI	E 32, E 332, E 31.2 E 2.62,E 732,E732-2	T630, T2.61, T2.62	1604MI, 230MH AB1622	268 290	SL 10 x 1800 SL 20 x 2000
5412440	HP.F.E832-2-T832MI	E 832-2	T 832	1804MI,350MH Indust. and telescopic	345	SL 10 x 1800 SL 20 x 1800
6041142	HP.F.E832-2 - T832	E2.62, E732, E732-2, E 832-2	T72, T734, T82, T 832	5205, 520MH	345	SL 10 x 2300 SL 20 x 2300

Grab extensions

Material no.	Type designation	Lenght (mm)	suitable for	Weight KG
0727633	E 34	1000	with 4 hoses E32	56
0742267	E34.1	1.500	with 4 hoses E32	90
0732572	E 34.2	2.000	with 4 hoses E32	115
0728598	E74	1.000	with 2 hoses E2.62	120
0742278	E74.2	2.000	with 2 hoses E2.62	200
3594014	E714	2.000	with 2 hoses E713	110

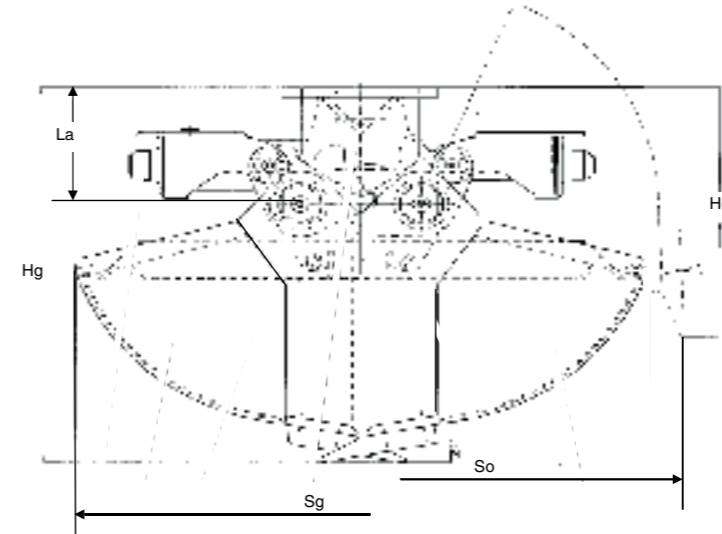


Attachments for hydraulic excavators

Clamshell bucket with a grab cylinder Grab rotation gear E4.2 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
3511731	E 4.5	270	40	1 - 2	80
3511800	E 4.6	350	50	1 - 2	90

with an ejector 3 Screw teeth
with an ejector 4 Screw teeth



Type design.	Material no.:	Hg	Ho	La	Sg	So
E4.5	3511731	515	344	160	730	820
E4.6	3511800	515	344	160	730	820

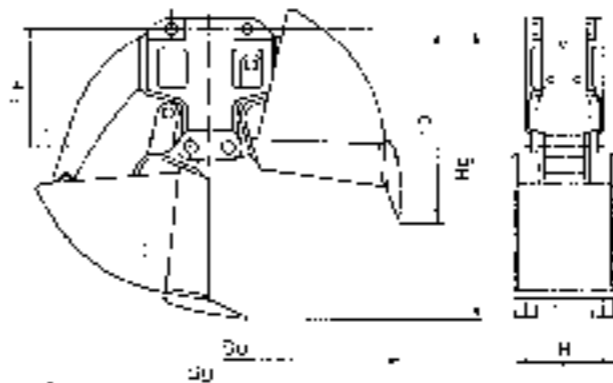
Altitude of rotation gear E4.2 incl. T4.2 = 320 mm
Operating pressure: max 200 bar



Clamshell bucket without a grab cylinder Grab rotation gear E8.2 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
3173844	E 8.5	200	50	3 - 5	112
3173946	E 8.6	270	70	3 - 5	120
3174027	E8.7	450	100	3 - 5	127
6102084	E8.7.5	450	100	3 - 5	130

with an ejector 3 Screw teeth
without an ejector 3 Screw teeth



Type design.	Material no.:	Hg	Ho	La	Sg	So
E8.5	3173844	815	545	331	910	1000
E8.6	3173946	815	545	331	910	1000
E8.7	3174027	815	545	331	910	1000
E8.7.5	6102084	as E8.7 yet as with ejector				

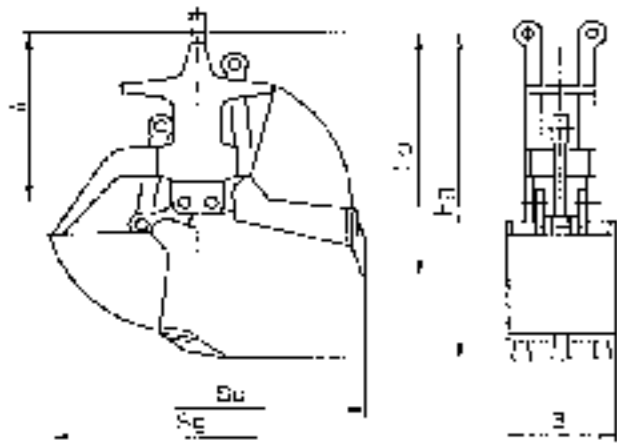
Altitude of rotation gear E8.2 incl. T8.4 = 611 mm
Operating pressure: max 200 bar



Attachments for hydraulic excavators

Zweischalengreifer, ohne Greiferzylinder
Greiferdreheinrichtung E 11.2 erforderlich

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
2553819	E11.5	300	110	6 - 11	240
2553886	E 11.6	400	150	6 - 11	265
2553466	E 11.7	600	220	6 - 11	258
2553740	E 11.7.5	600	220	6 - 11	295
6035451	E11.8	800	450	6 - 11	390



E11.5 - E11.8

Type design	Material no.:	Hg	Ho	LA	Sg	So
E11.5	2553819	1300	930	675	1120	1300
E11.6	2553886	1300	930	675	1120	1300
E11.7	2553466	1300	930	675	1120	1300
E11.7.5	2553740	as E8.7 yet with an ejector				
E11.8	6035451	1425	945	675	1378	1542

Altitude of rotation gear E11.2 incl. T11.4 = 630 mm
Operating pressure: max 250 bar



T11.4 + E11.2 + E11.8



E11.5



E11.6

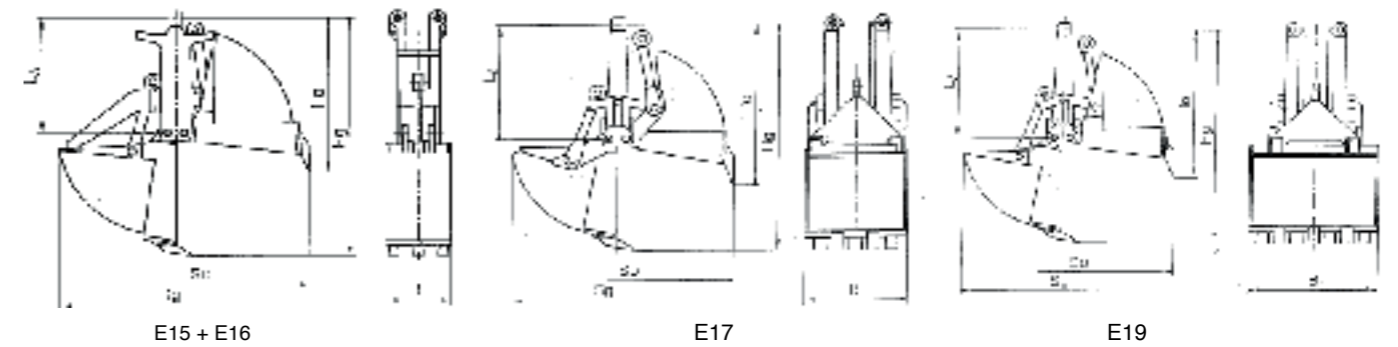


E11.7

Attachments for hydraulic excavators

Clamshell bucket without a grab cylinder
Grab rotation gear E 12 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
1419201	E 15	300	170	10 - 15	370
1419198	E 16	400	210	10 - 15	390
1922609	E 16 - 500	500	280	10 - 15	413
1419176	E 17	600	300	10 - 15	360
1497590	E17.1	ejector for retrofitting E17 and E17.5 4 Bolts 1973882 are required			40
1419187	E 17.5	600	300	10 - 15	410
1419165	E19	800	400	10 - 15	420



E15 + E16

E17

E19

Type design	Material no.:	Hg	Ho	La	Sg	So
E15	1419201	1520	1025	745	1430	1620
E16	1419198	1520	1025	745	1430	1620
E16-500	1922609	1520	1025	745	1430	1620
E17	1419187	1375	985	700	1240	1420
E17.5	1419187	as E17 yet with an ejector				
E19	1419165	1375	985	700	1240	1420

Altitude of rotation gear E12 incl. T31 = 827 mm
Operating pressure: max 250 bar



E15

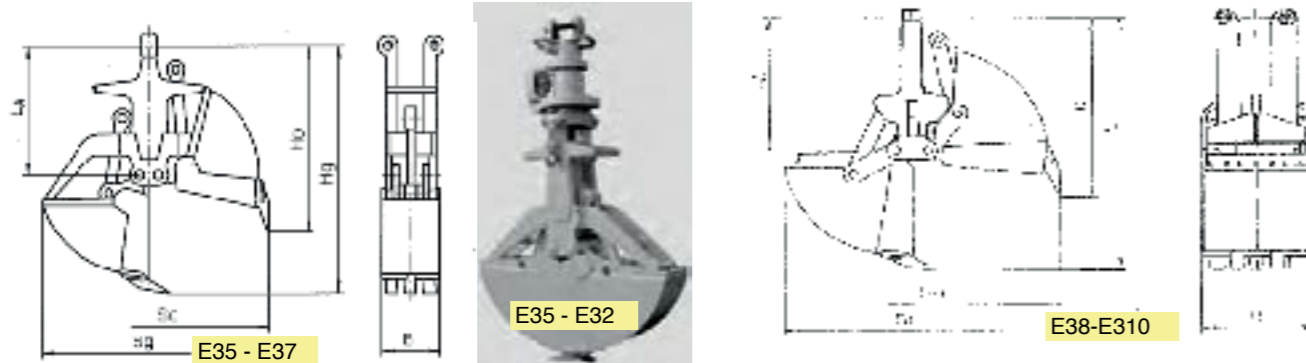


E19 + E12 + T35S F. CASE
WX120 = 6152339

Attachments for hydraulic excavators

Clamshell bucket without a grab cylinder
Grab rotation gear E32 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
1517324	E 35	300	180	12 - 23	470
1517222	E 36	400	250	12 - 23	500
3081296	E 37	500	300	12 - 23	530
1517131	E 38	600	350	12 - 23	500
1512534	E38.1	Ejector for retrofitting of E38 with E38.5 4 Bolts 0586530 are required.			68
1517120	E 38.5	600	350	12 - 23	580
1517415	E 39	800	450	12 - 23	580
1512545	E39.1	Ejector for retrofitting of E39 with E39.5 4 Bolts 0586530 are required.			78
1517404	E 39.5	800	450	12 - 23	670
3081309	E 310	1000	560	12 - 23	660
2545400	E310.1	Ejector for retrofitting of E310 with E310.5 4 Bolts 0586530 are required.			90
2545364	E310.5	1000	560	12 - 23	750
4685674	LASTH. 5TO	load hook 5 t for welding			5



Type design	Material no.:	Hg	Ho	LA	Sg	So
E35	1517324	1615	1145	840	1465	1630
E36	1517222	1615	1145	840	1465	1630
E37	3081296	1615	1145	840	1465	1630
E38	1517131	1520	1070	800	1390	1550
E38.5	1517120	as E38 yet with an ejector				
E39	1517415	1520	1070	800	1390	1550
E39.5	1517404	as E39 yet with an ejector				
E310	3081309	1520	1070	800	1390	1550
E310.5	2545364	as E310 yet with an ejector				
E310-700L	without teeth 6153154 1620	1070	800		1590	1750

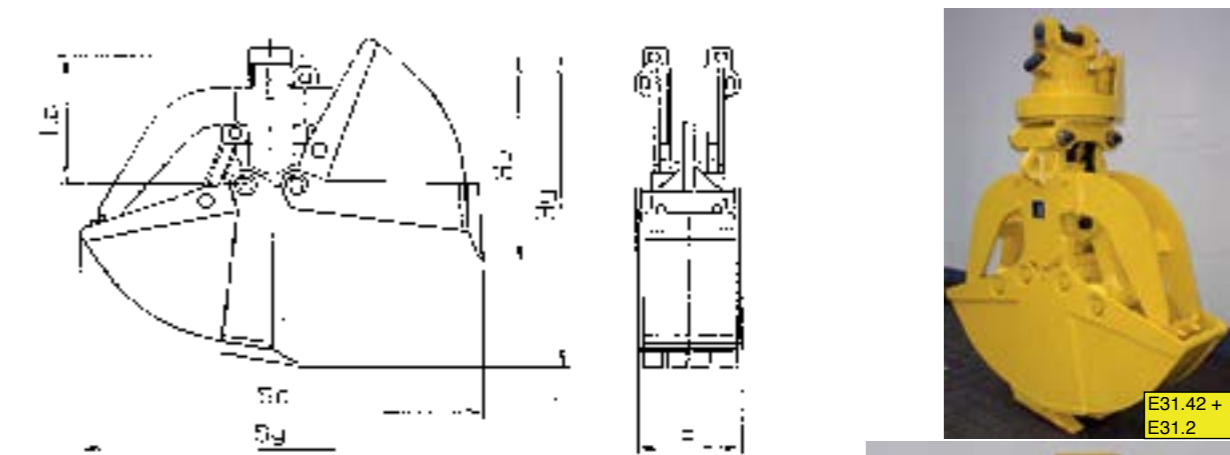
Altitude of rotation gear E32 incl. articulation piece T31 = 951 mm
Operating pressure: max 300 bar



Attachments for hydraulic excavators

Clamshell bucket without a grab cylinder, short design
Grab rotation gear E31.2 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
4533659	E 31.42	280	105	12 - 23	375
4532409	E 31.43	300	180	12 - 23	434
4533580	E 31.44	400	240	12 - 23	465
3594649	E 31.46	600	350	12 - 23	445
3590634	E 31.48	800	460	12 - 23	530
6065939	E31.50	1.000	590	12 - 23	570
4532227	E31.52	1.200	690	12 - 23	650
4685674	LASTH. 5TO	load hook 5 t for welding			5



Type design	Material no.:	Hg	Ho	La	Sg	So
E31.42	4533659	1145	835	532	1210	1350
E31.43	4532409	1295	855	532	1490	1650
E31.44	4533580	1295	855	532	1490	1650
E31.46	3594649	1265	830	532	1400	1550
E31.48	3590634	1265	830	532	1400	1550
E31.50	6065939	1265	830	532	1400	1550
E31.52	4532227	1265	830	532	1400	1550

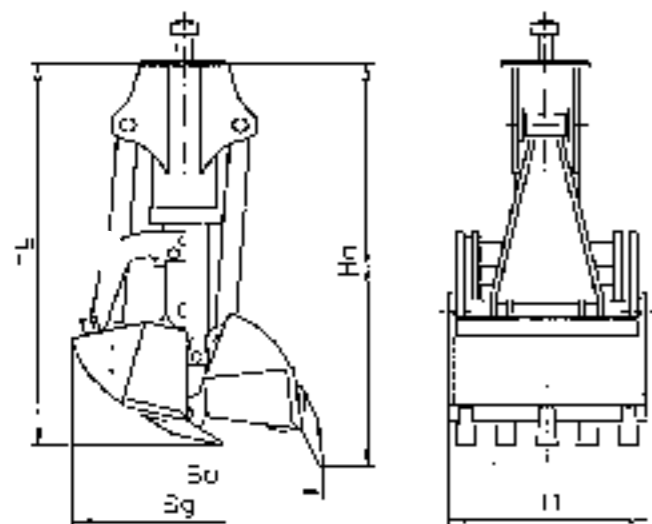
Altitude of rotation gear E31.2 incl. T31 = 700 mm
Operating pressure: max 300 bar



Attachments for hydraulic excavators

Clamshell bucket with a grab cylinder and a rotary feed system. Short design.
Grab rotation gear E332 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
1597295	E334	Ballast grab Opening dimensions: 800 x 800	110 with an ejector 6 Screw teeth	12 - 23	490
1597308	E336	Ballast grab Opening dimensions: 600 x 1200	200 with an ejector 5 Screw teeth	12 - 23	510
4685674	LASTH. 5TO	load hook 5 t for welding			5



Type design.	Material no.:	Hg	Ho	Sg	So
E334	1597295	1235	1305	670	800
E336	1597308	1437	1340	1030	1200

Altitude of rotation gear E332 incl. T31 = 667 mm
Operating pressure: max 300 bar



E334



E336

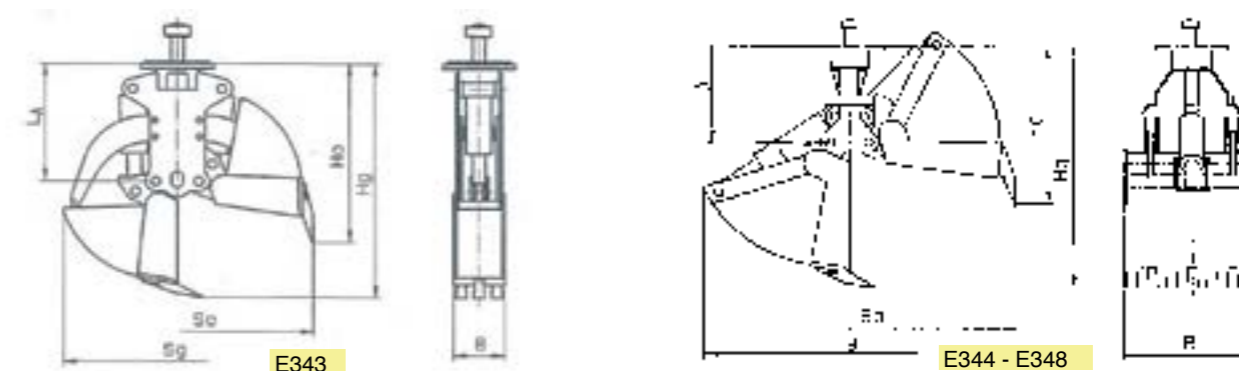
Attachments for hydraulic excavators

Clamshell bucket with two vertical grab cylinders and a rotary feed system. Short design.
Grab rotation gear E332 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
4584605	E343	280	100 with an ejector 3 Screw teeth	12 - 23	472
4685674	LASTH. 5TO	load hook 5 t for welding			5

Clamshell bucket with two horizontal grab cylinders and a rotary feed system; short design.
Grab rotation gear E332 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
1420942	E344	600	350 without an ejector 5 Screw teeth	12 - 23	490
1420964	E346	800	450 without an ejector 7 Screw teeth	12 - 23	550
2580298	E348	1.000	560 without an ejector 7 Screw teeth	12 - 23	640
4685674	LASTH. 5TO	load hook 5 t for welding			5



Type design	Material no.:	Hg	Ho	LA	Sg	So
E343	4584605	1190	905	590	1120	1350
E344	1420942	1295	830	520	1475	1650
E346	1420964	1295	830	520	1475	1650
E348	2580298	1295	830	520	1475	1650

Altitude of rotation gear E332 incl. T31 = 667 mm
Operating pressure: max 300 bar



E343



E346

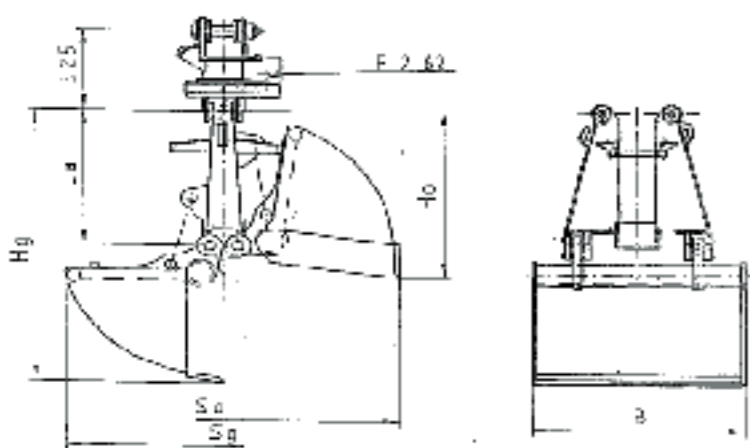


E346 + E332 + T630 + HP

Attachments for hydraulic excavators

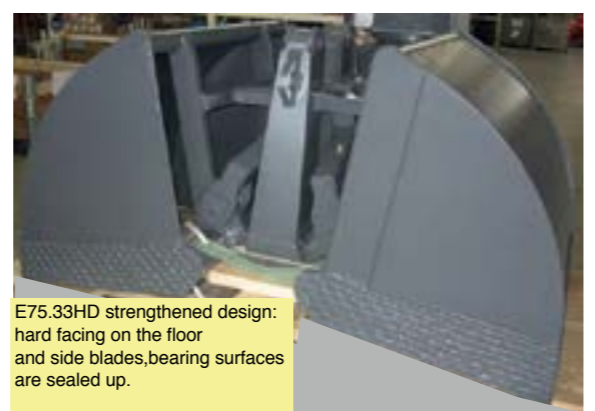
Clamshell bucket without a grab cylinder.
Grab rotation gear E 2.62 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
0743780	E 2.66	600	450	17 - 35	750
0743791	E 2.67	850	600	17 - 35	890
6014972	E75.32	1210	1200	17 - 35	1195
6000759	E75.33	1210	1500	17 - 35	1270
6152286	E75.33 HD	1210	1500	17 - 35	1290
6144538	E75.35	1460	1800	25 - 35	1280
6023077	E 75.36	1610	2000	25 - 35	1340
3592589	E75.37	2010	2500	25 - 35	1480
6150177	E75.38	2010	3000	25 - 35	1550
6089753	E75.40	2610	4000	25 - 35	1800



Type design	Material no.:	Hg	Ho	La	Sg	So
E2.66	0743780	1690	1125	940	1570	1625
E2.67	0743791	1690	1204	875	1510	1710
E75.32	6014972	1785	1080	875	1800	1940
E75.33	6000759	1885	1090	875	2076	2140
E75.33HD	6152286	1885	1090	875	2076	2140
E75.35	6144538	1885	1090	875	2076	2140
E75.36	6023077	1885	1090	875	2076	2140
E75.37	3592589	1885	1090	875	2076	2140
E75.38	6150177	1985	1106	875	2276	2337
E75.40	6089753	1985	1106	875	2276	2337

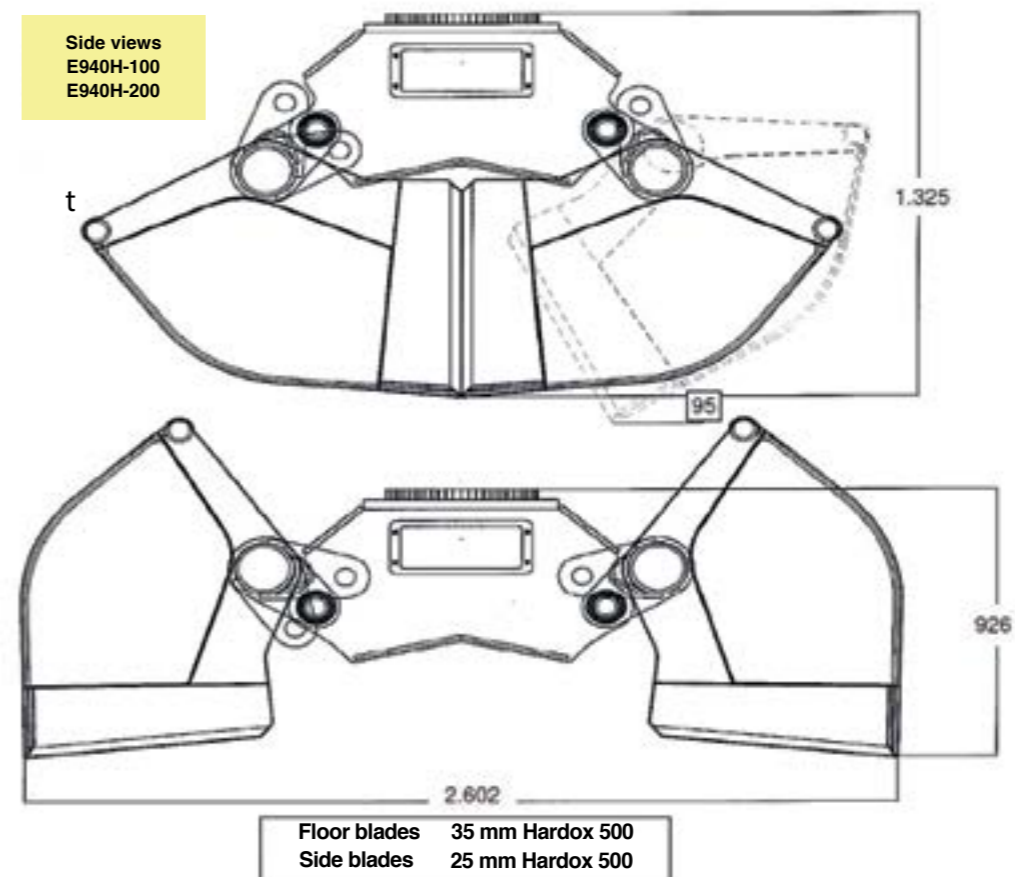
Altitude of rotation gear E2.62 incl. articulation piece T72 = 905 mm
Operating pressure: max 300 bar



Attachments for hydraulic excavators

Clamshell bucket with a horizontal grab cylinder.
Grab rotation gear E832-2 is required.

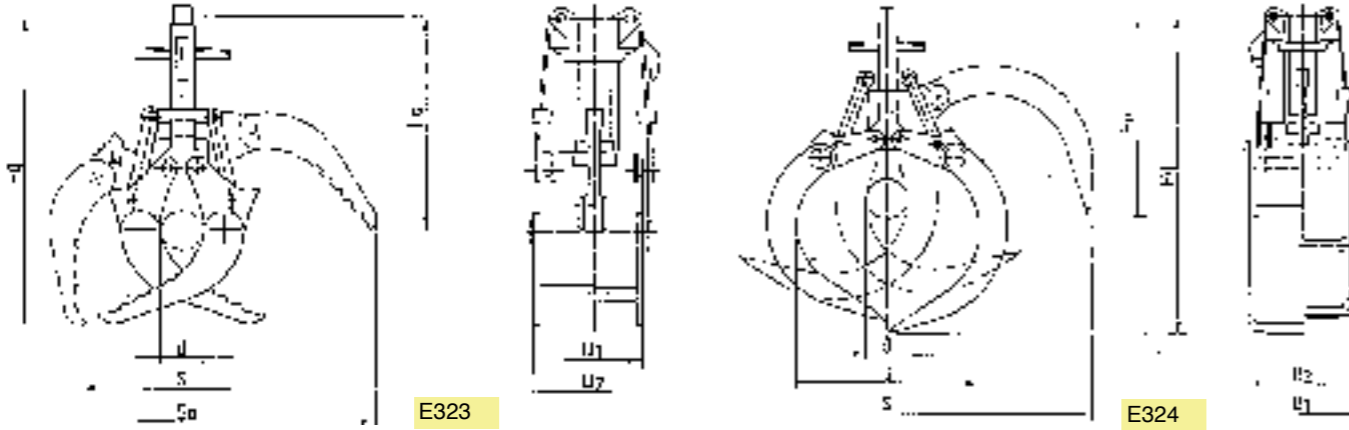
Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
6157065	E940H-100	1000	1250	25 - 50	1660
6156173	E940H-200	2000	2500	25 - 50	2070



Attachments for hydraulic excavators

Log grab without a grab cylinder.
Grab rotation gear E 32 is required.

Material no.	Type designation	Width	DU (Ø) / QM (sq.m.)	suitable for, and required	Excavator Size T	Weight KG
1420931	E 323	Grab for bundles of wood and tree trunks 600	Ø 200 -1.000	E32	12 - 23	404
1420895	E 324	Round log grab 700	1 QM (sq.m.)	E32	12 - 23	480



Type design.	Hg	Ho	d	D	S	So	B1	B2
E323	1660	1120	200		1030	1880	480	600
E324	2060	1300	250		1160	2420	590	700

Altitude of rotation gear E32 incl. T31 = 951 mm
Operating pressure: max 300 bar

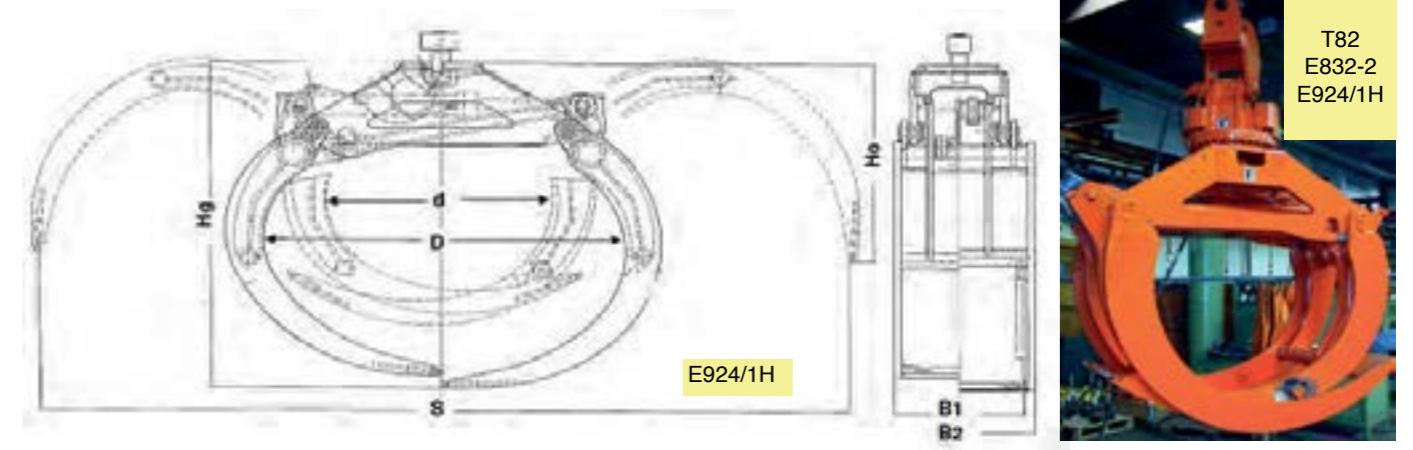
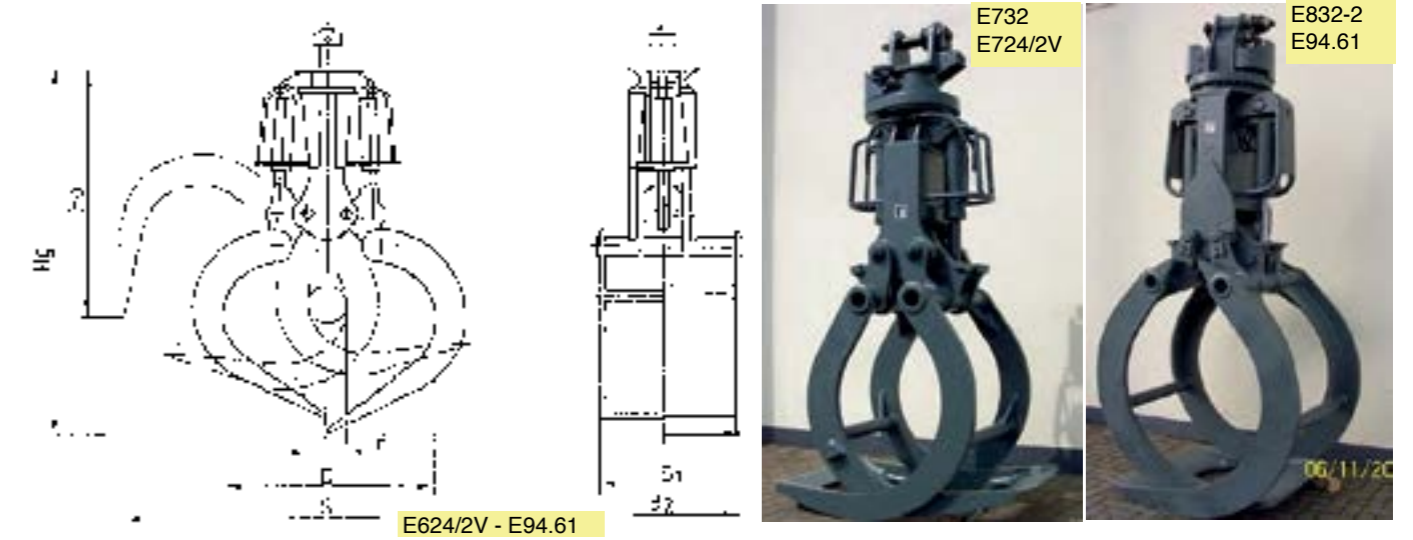


E324

Attachments for hydraulic excavators

Log grab with a grab cylinder and rotary feed system.
Grab rotation gear E732 / E832-2 is required.

Material no.	Type designation	Width	DU (Ø) / QM (sq.m.)	suitable for, and required	Excavator Size T	Weight KG
6075763	E624/2V	LOG GRAB 800		E732, E732-2	17 - 35	1005
6015584	E 724/2V	LOG GRAB 800	1	E732, E732-2	17 - 35	1060
6029406	E824/2V	LOG GRAB 800	1,3	E732-2	25 - 35	1075
6068171	E 94.61	LOG GRAB 800	1,8	E832-2	35 - 50	1600
6032675	E924/1H	LOG GRAB 850	2,5	E832-2	35 - 50	1680



Type design.	Hg	Ho	d	D	S	B1	B2
E624/2V	2050	1280	200	1150	2450	660	780
E724/2V	2260	1300	300	1400	2980	690	800
E824/2V	2500	1370	400	1710	3470	660	780
E 94.61	2800	1600	500	1640	3515	865	1000
E924/1H	2137	1290	1270	2020	4530	730	850

Altitude of rotation gear E732 incl. T72 = 796 mm

Altitude of rotation gear E832 incl. T82 = 940 mm

Operating pressure: max 300 bar

Attachments for hydraulic excavators

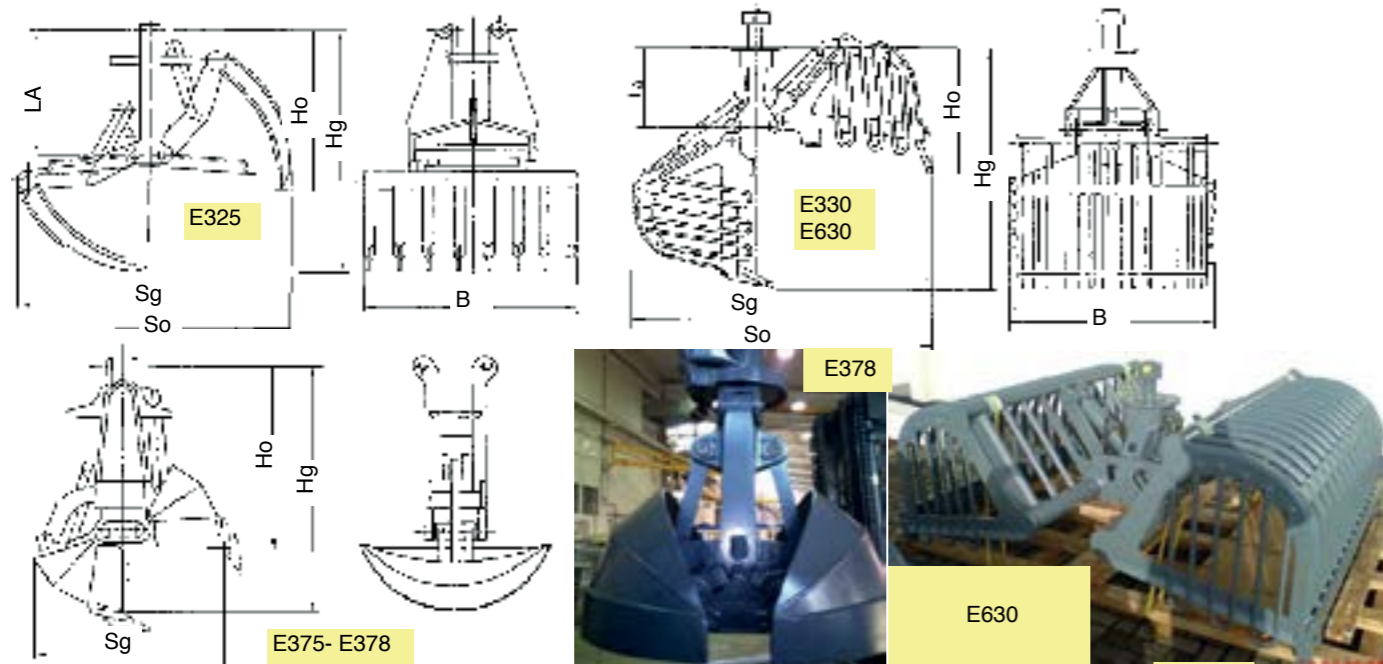
Multitooth grab and grab for round shafts without grab cylinder.
Grab rotation gear E 32 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG	List price plus VAT
1542949	E325	Multitooth grab 1.250	650	12 - 23	650	9.450 €
720976	E375	Grab for round shafts Ø 900		12 - 23	330	7.000 €
720987	E376	Grab for round shafts Ø 1,000		12 - 23	370	7.600 €
720998	E377	Grab for round shafts Ø 1,100		12 - 23	480	9.950 €
3514381	E378	Grab for round shafts Ø 1,200		12 - 23	520	9.400 €

Optionally with teeth at extra cost!

Beet grab with two horizontal grab cylinders and a rotary feed system; short design. Grab rotation gear E 332 is required.

Material no.	Type designation	Width	Litres	Excavator	Weight KG
5433865	E330	1.300	1.000	12 - 23	850
5433570	E630	1.650	1.300	12 - 23	950
4685674	LASTH. 5TO	load hook 5 t for welding			5



Type design.	Hg	Ho	LA	Sg	So
E325	1660	1020	800	1500	1410
E375	1225	970	840	840	DU900
E376	1275	980	840	940	DU1000
E377	1285	950	800	1030	DU1100
E378	1335	960	800	1130	DU1200
E330	1600	860	520	1550	2280
E630	1600	860	520	1550	2280

Altitude of rotation gear E32 incl. T31 = 951 mm
Altitude of rotation gear E332 incl. T31 = 667 mm
Operating pressure: max 300 bar



Attachments for hydraulic excavators

Demolition and sorting grab, freely swinging.
Grab rotation gear for E 332 is required.

Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
5459901	E337	1055	300	13 - 23	740

Demolition and sorting grab
Swivel movement via a dipper-tipping cylinder

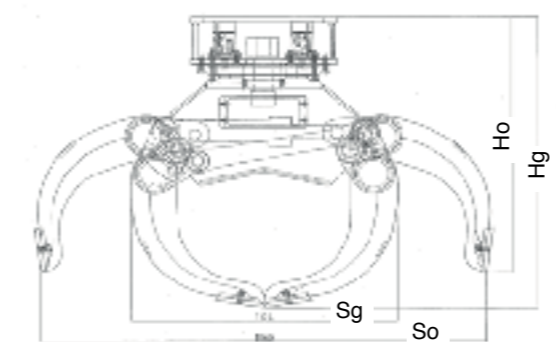
Material no.	Type designation	Width	Litres	Excavator Size T	Weight KG
6144921	E150-800	800	300	11 - 15	740
6145719	E150-800LR	800	300	11 - 15	760
6135271	E200-1000	1.000	400	13 - 20	1015
6145720	E200-1000LR	1.000	400	13 - 20	950
6144890	E270-1200	1.200	800	20 - 27	1600
6145731	E270-1200LR	1.200	800	20 - 27	1300

Screw adaptor suitable for demolition and sorting grab E150 - E270

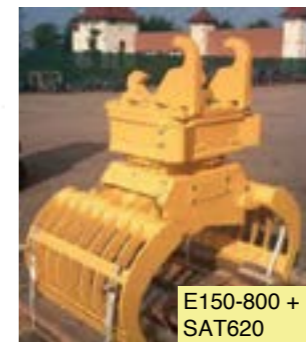
6144313	SA-FEST-270	Screw adapter for permanent installation, arm width 268, Ø 60	115
6125048	SA T620	Screw adapter for T620V	115
6140268	SA T63.20	Screw adapter for T63.20	190
6135747	SA MS10	Screw adapter for Lehnhoff MS10	100
6135735	SA MS21	Screw adapter for Lehnhoff MS21	120
6147869	SA CW30/40	Screw adapter for Verachtert CW30/40	120

Screw adapter for without dipper tipping cylinder, also swinging

6154187	SA E150-270 F.T31	SCREW ADAPTER FIXED	SA E150-270 F.T31	100
6159291	SA E150-270 F.T72	SCREW ADAPTER FIXED	SA E150-270 F.T72	120



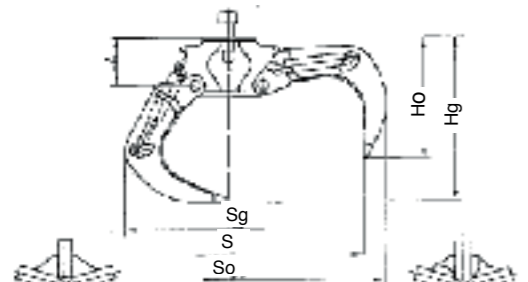
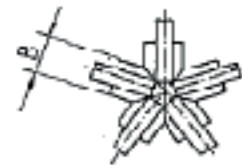
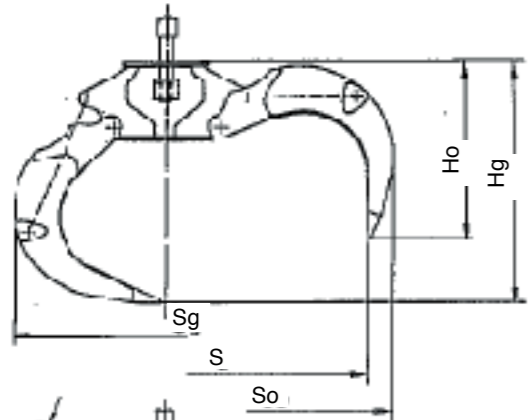
Type design	Hg	Ho	Sg	So
E337	1040	824	1070	1770
E150-800	1100	980	915	1510
E150-800LR	1100	980	915	1510
E200-1000	1310	1150	1104	1860
E200-1000LR	1310	1150	1104	1860
E270-1200	1325	1515	1330	2250
E270-1200LR	1325	1515	1330	2250



Attachments for hydraulic excavators

Multi-jaw grab with 5 grab cylinders and a rotary feed system.
Grab rotation gear is required.

Material no.	Type designation	Grab shells Number and shape	Litres	suitable for, grab rotation gear	Excavator Size T	Weight KG
1446191	E121	5 x semi-closed	275	E11.32	6 - 11	550
2511762	E122	5 x completely closed	300	E11.32	6 - 11	580
4553835	E 320	5 x open	350	E732, E732-2	12 - 25	995
5448680	E 321	5 x semi-closed	350	E732, E732-2	12 - 25	1040
6027107	E322	5 x completely closed	350	E732, E732-2	12 - 25	1083



E320

E321 - 322

Type design.	Hg	Ho	Sg	So	S	B
E121	1035	750	1230	1850	1650	320
E122	1035	750	1230	1850	1650	575
E320	1170	905	1430	2050	1750	200
E321	1170	905	1430	2050	1750	350
E322	1170	905	1430	2050	1750	625

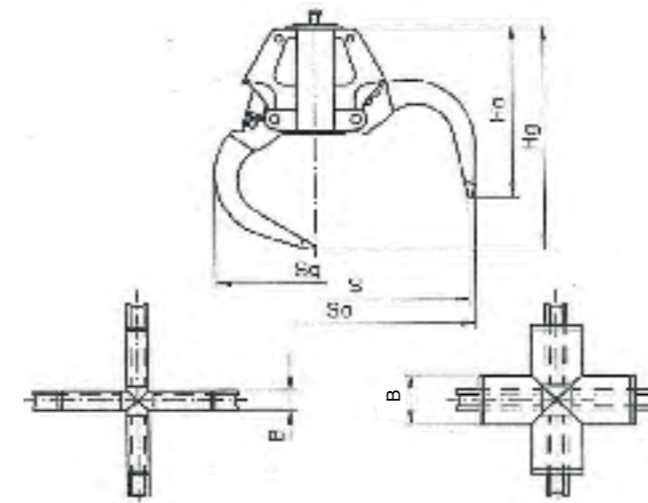
Altitude of rotation gear E11.32 incl. T11.4 = 554 mm Druck max 250 bar
Altitude of rotation gear E732 incl. T64 = 870 mm Druck max 300 bar



Attachments for hydraulic excavators

Multi-jaw grab with 4 grab cylinders and a rotary feed system.
Grab rotation gear is required.

Material no.	Type designation	Grab shells Number and shape	Litres	suitable for, grab rotation gear	Excavator Size T	Weight KG
6147728	E640-4	4 x open	400	E732, E732-2	17 - 35	950
6147894	E641-4	4 x semi-closed	400	E732, E732-2	17 - 35	1075
6147895	E650-4	4 x open	500	E732, E732-2	17 - 35	1000
5403085	E651-4	4 x semi-closed	500	E732, E732-2	17 - 35	1125
6121831	E651-4-700-HS	4 shells: 700 mm (width) Tine tips of HARDOX	500	E732, E732-2	17 - 35	1275
6147896	E750-4	4 x open	600	E732, E732-2	17 - 35	1070
6103759	E751-4	4 x semi-closed	600	E732, E732-2	17 - 35	1185
6147922	E760-4	4 x open	700	E732, E732-2	17 - 35	1130
6147923	E761-4	4 x semi-closed	700	E732, E732-2	17 - 35	1150
6149607	E770-4	4 x open	800	E732, E732-2	17 - 35	1160
6149609	E771-4	4 x semi-closed	800	E732, E732-2	17 - 35	1230
6147934	E780-4	4 x open	900	E732, E732-2	20 - 35	1195
6147935	E781-4	4 x semi-closed	900	E732, E732-2	20 - 35	1310
6105402	E790-4	4 x open	1000	E732, E732-2	20 - 35	1150
6120825	E791-4	4 x semi-closed	100	E732, E732-2	20 - 35	1235



Type design.	Hg	Ho	Sg	So	S	B
E640-4	1620	1293	1345	2130	1346	2130
E641-4	1620	1293	1345	2130	1935	450
E650-4	1700	1325	1400	2280	2080	175
E651-4	1700	1325	1400	2280	2080	450
E651-4-700-HS	1700	1325	1400	2280	2080	700
E750-4	1750	1345	1450	2385	2175	175
E751-4	1750	1345	1450	2380	2175	450
E760-4	1780	1352	1480	2420	2230	175
E761-4	1780	1352	1480	2420	2230	450
E770-4	1850	1395	1550	2520	2340	175
E771-4	1850	1395	1550	2520	2340	450
E780-4	1910	1435	1620	2640	2440	175
E781-4	1910	1435	1620	2640	2440	450
E790-4	1950	1416	1640	2740	2550	175
E791-4	1950	1416	1640	2740	2550	450

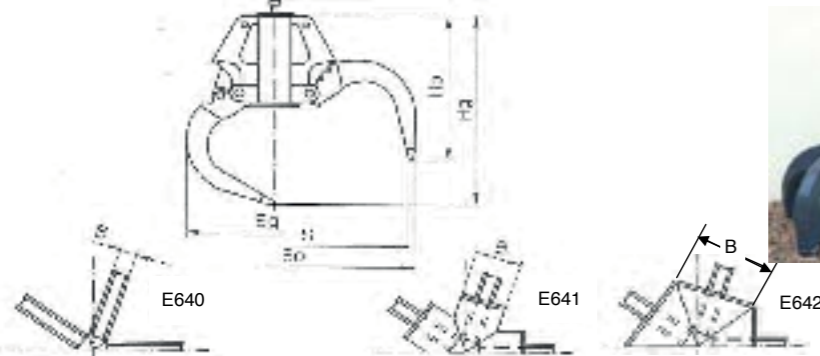
Altitude of rotation gear E732 incl. T72 = 800 mm Pressure: max. 300 bar



Attachments for hydraulic excavators

Multi-jaw grab with 5 grab cylinders and a rotary feed system.
Grab rotation gear is required.

Material no.	Type designation	Grab shells Number and shape	Litres	suitable for, grab rotation gear	Excavator Size T	Weight KG
6147727	E640	5 x open	400	E732, E732-2	17 - 35	1150
6146940	E641	5 x semi-closed	400	E732, E732-2	17 - 35	1265
6147729	E642	5 x completely closed	400	E732, E732-2	17 - 35	1280
4538154	E 650	5 x open	500	E732, E732-2	17 - 35	1200
4532318	E 651	5 x semi-closed	500	E732, E732-2	17 - 35	1350
6101236	E652	5 x completely closed	500	E732, E732-2	17 - 35	1360
4533853	E 750	5 x open	600	E732, E732-2	17 - 35	1270
4533842	E 751	5 x semi-closed	600	E732, E732-2	17 - 35	1360
3550976	E752	5 x completely closed	600	E732, E732-2	17 - 35	1400
6147897	E760	5 x open	700	E732, E732-2	17 - 35	1240
3572369	E761	5 x semi-closed	700	E732, E732-2	17 - 35	1380
6147928	E762	5 x completely closed	700	E732, E732-2	17 - 35	1520
6149608	E770	5 x open	800	E732, E732-2	17 - 35	1280
6149610	E771	5 x semi-closed	800	E732, E732-2	17 - 35	1430
6149631	E772	5 x completely closed	800	E732, E732-2	17 - 35	1560
6147898	E780	5 x open	900	E732, E732-2	20 - 35	1320
6147899	E781	5 x semi-closed	900	E732, E732-2	20 - 35	1480
6147931	E782	5 x completely closed	900	E732, E732-2	20 - 35	1600
6147900	E790	5 x open	1000	E732, E732-2	20 - 35	1350
4558307	E791	5 x semi-closed	1000	E732, E732-2	20 - 35	1400
6147929	E792	5 x completely closed	1000	E732, E732-2	20 - 35	1760



Type design.	Hg	Ho	Sg	So	S	B
E640	1620	1293	1345	2130	1935	175
E641	1620	1293	1345	2130	1935	450
E642	1620	1293	1345	2130	1935	760
E650	1700	1325	1400	2280	2080	175
E651	1700	1325	1400	2280	2080	450
E652	1700	1325	1400	2280	2080	780
E750	1750	1345	1450	2385	2175	175
E751	1750	1345	1450	2385	2175	450
E752	1750	1345	1450	2385	2175	800
E760	1780	1352	1480	2420	2230	175
E761	1780	1352	1480	2420	2230	450
E762	1780	1352	1480	2420	2230	820
E770	1850	1395	1550	2520	2340	175
E771	1850	1395	1550	2520	2340	450
E772	1850	1395	1550	2520	2340	835
E780	1910	1435	1620	2640	2440	175
E781	1910	1435	1620	2640	2440	450
E782	1910	1435	1620	2640	2440	850
E790	1950	1416	1640	2740	2550	175
E791	1950	1416	1640	2740	2550	450
E792	1950	1416	1640	2740	2550	880

Altitude of rotation gear E732 incl. T72 = 800 mm

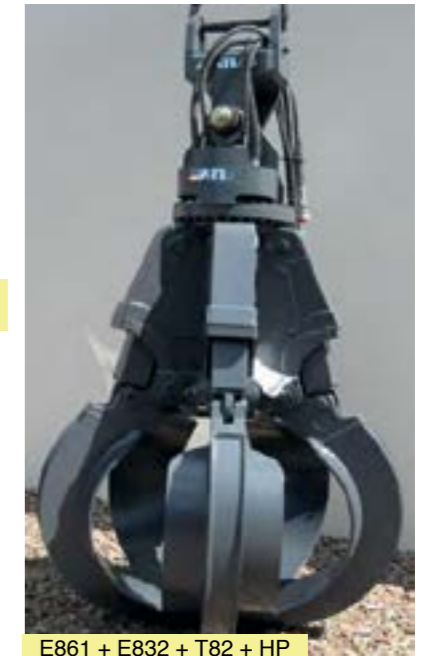
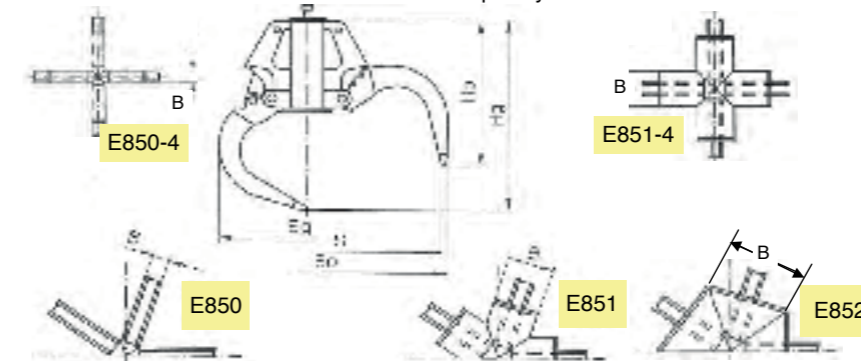
Pressure: max. 300 bar



Attachments for hydraulic excavators

Multi-jaw grab with 4 / 5 grab cylinders and a rotary feed system
Grab rotation gear is required.

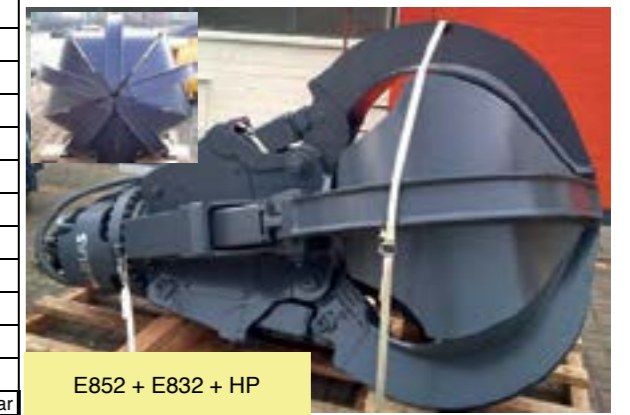
Material no.	Type designation	Grab shells Number and shape	Litres	suitable for, grab rotation gear	Excavator Size T	Weight KG
4543822	E850-4	4 x open	700	E832-2	25 - 50	1100
4537380	E850	5 x open	700	E832-2	25 - 50	1360
6077566	E851-4	4 x semi-closed	700	E832-2	25 - 50	1260
4537448	E851	5 x semi-closed	700	E832-2	25 - 50	1540
6059333	E852	5 x completely closed	700	E832-2	25 - 50	1650
6147924	E860-4	4 x open	900	E832-2	25 - 50	1150
4538778	E860	5 x open	900	E832-2	25 - 50	1420
4564372	E861-4	4 x semi-closed	900	E832-2	25 - 50	1340
4534514	E861	5 x semi-closed	900	E832-2	25 - 50	1640
6031873	E862	5 x completely closed	900	E832-2	25 - 50	1730
6147925	E94.50-4	4 x open	1100	E832-2	25 - 50	1280
6023071	E94.50	5 x open	1100	E832-2	25 - 50	1445
6077568	E94.51-4	4 x semi-closed	1100	E832-2	25 - 50	1400
6022873	E94.51	5 x semi-closed	1100	E832-2	25 - 50	1678
6031869	E94.52	5 x completely closed	1100	E832-2	25 - 50	1821
6147926	E94.70-4	4 x open	1400	E832-2	25 - 50	1400
6147921	E94.70	5 x open	1400	E832-2	25 - 50	1670
6147927	E94.71-4	4 x semi-closed	1400	E832-2	25 - 50	1450
6043015	E94.71	5 x semi-closed	1400	E832-2	25 - 50	1730
6147930	E94.72	5 x completely closed	1400	E832-2	25 - 50	2100



Type design.	Hg	Ho	Sg	So	S	B
E850-4	1820	1430	1520	2460	2260	175
E850	1820	1430	1520	2460	2260	175
E851-4	1820	1430	1520	2460	2500	450
E851	1820	1430	1520	2460	2260	450
E852	1820	1430	1520	2460	2260	840
E860-4	1950	1475	1650	2700	2500	175
E860	1950	1475	1650	2700	2500	175
E861-4	1950	1475	1650	2700	2690	450
E861	1950	1475	1650	2700	2500	450
E862	1950	1475	1650	2700	2500	900
E94.50-4	2050	1515	1734	2890	2260	175
E94.50	2050	1515	1734	2890	2690	175
E94.51-4	2050	1515	1734	2890	2690	450
E94.51	2050	1515	1734	2890	2690	450
E94.52	2050	1515	1734	2890	2690	960
E94.70-4	2150	1551	1872	3102	2872	175
E94.70	2150	1551	1872	3102	2872	175
E94.71-4	2150	1551	1872	3102	2872	450
E94.71	2150	1551	1872	3102	2872	450
E94.72	2150	1551	1872	3102	2872	1050

Altitude of rotation gear E832-2 incl. T82 = 940 mm

Pressure: max. 300 bar



Attachments for hydraulic excavators

Connecting part for a hydraulic hammer

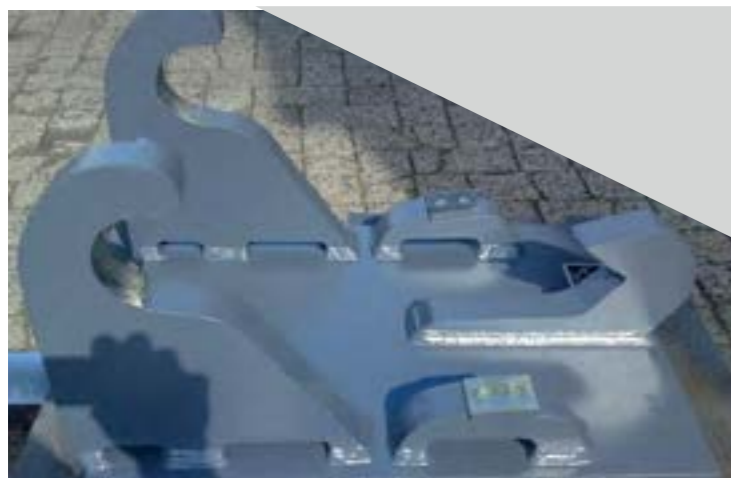
Material no.	Type designation	suitable for SWE (quick change devices)	Hammer types	Weight KG
4584309	T 11.50	T11.20 without screws	HM110, HM135-HM350V	40
3548143	T 650	T620V, T620H with screws and nuts 16 x M20x85	KRUPP HM110-HM600 MONTABERT BRH250-900, 500, 700, 1000 640x485x25 base plate	125
5411734	T 650 without openings	T620V, T620H	for all purposes without openings 640x485x25 base plate	125
4558443	T 63.50	T63.20, T63.20H without screws	KRUPP HM350,500,550,560,580,600, MONTABERT BRH501,620,625,750,900	200
4543708	T 750	T 722, T 722 H without screws	KRUPP HM350,500,550,560,580,600, MONTABERT BRH501,620,625,750,900	214

Connecting plate for welding on the rear side of the dipper

Material no.	Type designation	suitable for SWE (quick change devices)		Weight KG
4504256	T 11.55	T11.20		40
4542252	T652	T620V u T620H	for ATLAS bucket with a cross-tube Ø 178	66
3548121	T 655	T620V u T620H		81
6014424	T 63.55	T63.20, T 63.20H		215
4543731	T 755	T 722, T 722 H		230

Adapters for rock buckets and trench diggers

Material no.	Type designation	suitable for,	a dipper for permanent installation		Weight KG
			Bolts, Ø	Arm width in mm	
3550249	T 658	T620V	60	268	130
6027091	T63.58	T63.20, T 63.20H	80	300	250



T650 without openings



T658

Attachments for hydraulic excavators

Product line of dippers and buckets

By means of the different forms and shapes of the products, the range of buckets and dippers of ATLAS offers products for any kind of application, which in addition are optimally adapted to the relevant carrier.

- Bucket
- Rock bucket
- Trench lining bucket
- Dipper for loamy soil
- Heavy duty fork
- Drainage bucket
- Trench digger
- All-purpose dipper

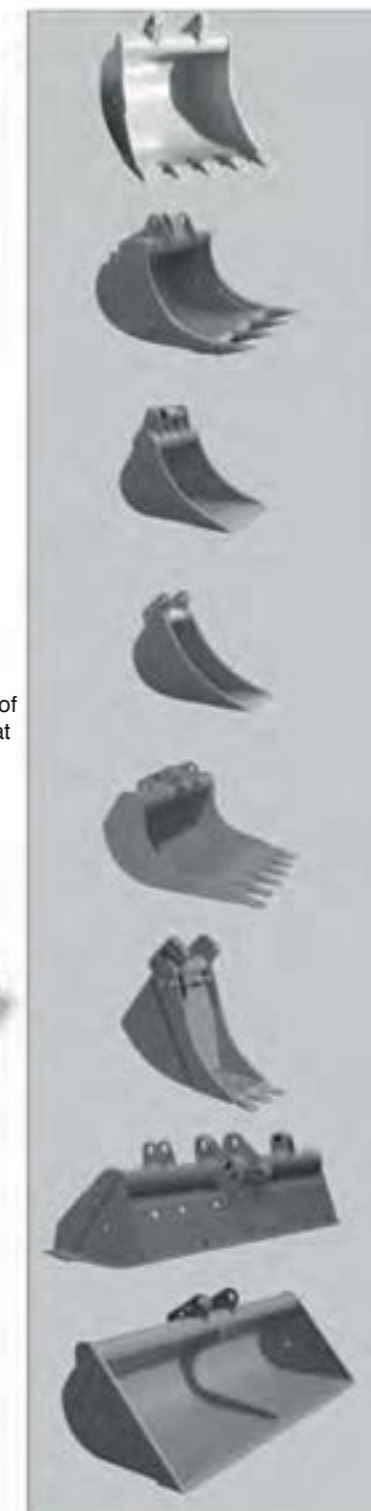
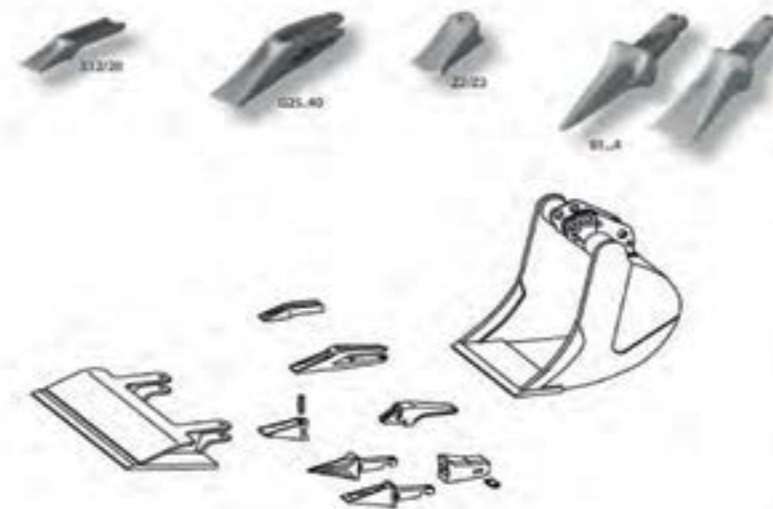
In accordance with the relevant dimensions of the articulated jib ends, the product line of buckets and dippers is divided as follows:

- Dipper attachments for articulated jib end 168 mm (closed) / Ø 50 mm
- Dipper attachments for articulated jib end 268 mm (closed) / Ø 60 mm

ATLAS buckets and dippers meet the requirements of the civil engineering:

- The grade of the steel and the special design guarantee stability and wear resistance.
- All parts particularly subject to wear as floor and side blades as well as the floor panel are made of high-strength surface-coated fine-grain structural steel.
- Easy penetration is provided by the free punch due to the slightly conical shape of the dipper. Teeth holders feature flat design and are incorporated in the blade. Flat design provides less digging resistance and high efficiency, for example when unloading, i.e. more work cycles.

For the different types of soil we provide teeth of different shapes:



Attachments for hydraulic excavators

Attachments for dippers

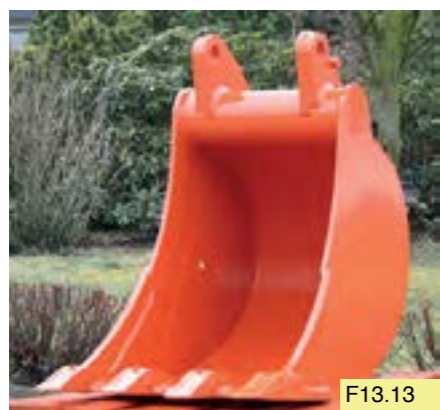
Buckets and dippers are suitable for all kinds of application, incl. when high tearing forces are required as for rock breaking off and other demolition works. Teeth are internally welded on and with replaceable tine tips.

Bucket for ATLAS 1004, teeth are internally welded on and with replaceable ATLAS Z2 tine tips.

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					Bolts, Ø (mm), SWE (quick change devices)	Excavator Size T	
4569311	F 03.12	500	3	230	168/50	6 - 11	185
4569322	F 03.12 SW	500	3	230	T11.20	6 - 11	200
4569333	F 03.13	600	4	300	168/50	6 - 11	210
4569344	F 03.13 SW	600	4	300	T11.20	6 - 11	230
4575400	F 03.15	850	5	460	168/50	6 - 11	260
4569366	F 03.15 SW	850	5	460	T11.20	6 - 11	280

Bucket for ATLAS 1104 and 1204, teeth are internally welded on and with replaceable ATLAS Z2 tine tips.

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					Bolts, Ø (mm), SWE (quick change devices)	Excavator Size T	
4569377	F 13.12	500	3	230	268/60	9 - 13	210
4569388	F 13.12SW	500	3	230	T620V/T620H	9 - 13	250
4569399	F 13.13	600	4	300	268/60	9 - 13	245
4569402	F 13.13 SW	600	4	300	T620V/T620H	9 - 13	270
4569413	F 13.14	700	4	360	268/60	9 - 13	265
4569424	F 13.14SW	700	4	360	T620V/T620H	9 - 13	300
4577457	F 13.15	850	5	460	268/60	9 - 13	300
4574523	F 13.15 SW	850	5	460	T620V/T620H	9 - 13	330
4569435	F 13.16	1000	5	560	268/60	9 - 13	330
4569446	F 13.16 SW	1000	5	560	T620V/T620H	9 - 13	365
3130934	LHANBSATZ 5TO.TL	Load hook 5 t for retrofitting					7



F13.13

No additional costs for special colors.



F13.16SW-1150mm
6149218

Special widths are available, too.

Attachments for hydraulic excavators

Bucket: standard design with ATLAS B1 tooth system or a non-serrated blade

Material no.	Type designation n.s.b. = non-serrated blade	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3174049	F 412	500	3	330	268/60	12 - 17	320
6150189	F 412 n.s.b.	500		330	268/60	12 - 17	300
3179204	F 412 SW	500	3	330	T620V/T620H	12 - 17	320
6017022	F 412 SW n.s.b.	500		330	T620V/T620H	12 - 17	300
4107813	AZS F412	540		Scraper blade above the tine tips			35
3174061	F 413	600	3	420	268/60	12 - 17	340
3515177	F 413 n.s.b.	600		420	268/60	12 - 17	320
3179259	F 413 SW	600	3	420	T620V/T620H	12 - 17	370
6149821	F 413 SW .n.s.b.	600		420	T620V/T620H	12 - 17	350
3532214	AZS F413	640		Scraper blade above the tine tips			50
3171422	F 415	850	4	670	268/60	12 - 17	430
3519013	F 415 n.s.b.	850		670	268/60	12 - 17	390
3175175	F 415 SW	850	4	670	T620V/T620H	12 - 17	450
3552876	F 415SW n.s.b.	850		670	T620V/T620H	12 - 17	415
6093654	F415MS10	850	4	670	Lehnhoff MS 10	12 - 17	515
3532236	AZS F415	890		Scraper blade above the tine tips			63
3174129	F 416	1000	5	820	268/60	12 - 17	480
3518589	F 416 n.s.b.	1000		820	268/60	12 - 17	450
3186236	F 416 SW	1000	5	820	T620V/T620H	12 - 17	500
3513277	F 416 SW n.s.b.	1000		820	T620V/T620H	12 - 17	470
4100576	AZS F416	1040		Scraper blade above the tine tips			70
3174141	F 417	1100	5	920	268/60	12 - 17	510
3081752	F 417 n.s.b.	1100		920	268/60	12 - 17	450
3186156	F 417 SW	1100	5	920	T620V/T620H	12 - 17	550
3561800	F 417 SW n.s.b.	1100		920	T620V/T620H	12 - 17	500
4100996	AZS F417	1140		Scraper blade above the tine tips			80
3174163	F 418	1300	6	1120	268/60	12 - 17	550
3512425	F 418 n.s.b.	1300		1120	268/60	12 - 17	500
3186178	F 418 SW	1300	6	1120	T620V/T620H	12 - 17	600
3503957	F 418 SW n.s.b.	1300		1120	T620V/T620H	12 - 17	550
4107835	AZS F418	1340		Scraper blade above the tine tips			90
3130934	LHANBSATZ 5TO.TL.S	S Load hook 5 t for retrofitting					7



F415SW



F415MS10



Special-application buckets, for example F417SW with metal ribs 6124924



Scraper blade mounted at F413



Attachments for hydraulic excavators

Rock bucket - HD-design with wear plates and ATLAS B2 tooth system

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					bolts, Ø (mm) SWE	Excavator Size T	
3174083	F643	600	3	420	268/60	15 - 20	400
3186190	F643SW	600	3	420	T620V/T620H	15 - 20	440
3172003	F645	850	4	670	268/60	15 - 20	500
3186214	F645SW	850	4	670	T620V/T620H	15 - 20	540
3174185	F 647	1100	5	920	268/60	15 - 20	620
3186134	F 647 SW	1100	5	920	T620V/T620H	15 - 20	660
3174209	F 648	1300	5	1120	268/60	15 - 20	660
3186112	F648SW	1300	5	1120	T620V/T620H	15 - 20	700
4569457	F63.23	600	3	430	300/80	17 - 25	480
4569468	F63.23SW	600	3	430	T63.20/T63.20H	17 - 25	530
4569479	F 63.24	700	4	530	300/80	17 - 25	535
4569480	F 63.24 SW	700	4	530	T63.20/T63.20H	17 - 25	590
4569491	F 63.25	850	4	670	300/80	17 - 25	590
4569004	F 63.25 SW	850	4	670	T63.20/T63.20H	17 - 25	645
4569060	F 63.15	850	4	750	300/80	17 - 25	640
4569071	F 63.15 SW	850	4	750	T63.20/T63.20H	17 - 25	670
4569015	F 63.26	1000	4	830	300/80	17 - 25	635
4569026	F 63.26 SW	1000	4	830	T63.20/T63.20H	17 - 25	690
4574421	F 63.27	1100	4	930	300/80	17 - 25	680
4569037	F 63.27 SW	1100	4	930	T63.20/T63.20H	17 - 25	740
4574432	F 63.28	1300	4	1140	300/80	17 - 25	780
4569048	F 63.28 SW	1300	4	1140	T63.20/T63.20H	17 - 25	815
4573522	F 63.29	1500	4	1340	300/80	17 - 25	840
4569059	F 63.29 SW	1500	4	1340	T63.20/T63.20H	17 - 25	895
3130934	LHANBSATZ 5TO.TL.S					Load hook 5 t for retrofitting	7



F647



F647



F63.28



F63.23SW

Attachments for hydraulic excavators

Rock bucket - HD-design with wear plates and ATLAS B3 tooth system

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3177768	F 748	1300	5	1260	forked/80	22 - 28	930
3564143	F 748 SW	1300	5	1260	T722/T722H	22 - 28	980
3177848	F 718	1500	5	1500	forked/80	22 - 28	1005
3564110	F 718 SW	1500	5	1500	T722/T722H	22 - 28	1070
3130934	LHANBSATZ 5TO.TL.S					Load hook 5 t for retrofitting	7

Rock bucket - HD-design with wear plates and ATLAS B4 and a load hook 12,5 To. outside SW (quick coupler) dipper

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3183415	F 847	1000	3	910	forked/80	28 - 35	800
3564325	F 847 SW	1000	3	910	T722/T722H	28 - 35	850
3183528	F 849	1500	5	1500	forked/80	28 - 35	1140
3564267	F 849 SW	1500	5	1500	T722/T722	28 - 35	1200

Notice: Upper buckets with a non-serrated blade with internally welded ATLAS-Z 3 teeth or Esco tooth system Super-V or are available, too.

Other special widths, as well as capacities and holders - Verachtert etc. - do not present a problem for us. Do not hesitate to contact us: we will be pleased to present an offer to you.

It goes without saying that in addition to the quick couplers listed above, we are in a position to offer as well original LEHNHOFF attachments. Do not hesitate to contact us - we will be pleased to present an offer to you.

The original ATLAS attachments may be fitted with Lehnhoff quick change mounting system MS08/MS10/MS21/MS25 or other quick change mounting systems as Verachtert, OilQuick etc. as indicated in some of the examples: F415MS10, G644MS21 etc., as specified in this price list.



F748

Rock bucket - HD-design with wear plates suitable for 210 - 260LC with CAT tooth system

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
6149301	F75.15	850	4x 1U3352	680	311/80	22 - 28	666
6083115	F75.15MS21	850	4x 1U3352	680	Lehnhoff MS 21	22 - 28	630
6149303	F75.17	1100	4x 1U3352	940	311/80	22 - 28	820
6083119	F75.17MS21	1100	4x 1U3352	940	Lehnhoff MS 21	22 - 28	820
6149305	F75.18	1300	4x 1U3352	1160	311/80	22 - 28	830
6083132	F75.18MS21	1300	4x 1U3352	1160	Lehnhoff MS 21	22 - 28	880
6149306	F75.09	1500	4x 1U3352	1370	311/80	22 - 28	991
6091486	F75.09MS21	1500	4x 1U3352	1370	Lehnhoff MS 21	22 - 28	950
6101086	F75.29	1600	4x 1U4452	1650	311/80	22 - 28	1420
6123181	F75.29MS21	1600	4x 1U4452	1650	Lehnhoff MS 21	22 - 28	1300
3130934	LHANBSATZ 5TO.TL.S					Load hook 5 t for retrofitting	7

Attachments for hydraulic excavators

Drainage bucket

Suitable for application in sticky material.

Scope of delivery: Screw teeth, hydr. ejectors, 2 hoses

Material no.	Type designation	Width	Number of teeth	Litres	suitable for arm width and		Weight KG
					bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3077814	F 17.2	300	2 G25	130	168/50	6 - 11	220
3507893	F 17.2SW	300	2 G25	130	T11.20	6 - 11	240
3507837	F 17.3	400	3 G25	190	168/50	6 - 11	240
3507928	F 17.3SW	400	3 G25	190	T11.20	6 - 11	260
3080148	F 402	300	2 G30	200	268/60	12 - 20	310
3080171	F 402 SW	300	2 G30	200	T620V/T620H	12 - 20	375
3080160	F 403	400	3 G30	285	268/60	12 - 20	345
3080182	F 403 SW	400	3 G30	285	T620V/T620H	12 - 20	410
6068774	F 403MS10	400	3 G30	285	Lehnhoff MS 10	12 - 20	410

Trench lining bucket: flat shape, with a non-serrated blade.

Material no.	Type designation	Width	Litres	suitable for arm width and		Weight KG
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3171875	F 435	850	490	268/60	10 - 20	290
3183631	F 435 SW	850	490	T620V/T620H	10 - 20	315
respectively with openings in the floor blade for 4 teeth 3604459						
4569082	F 63.35	850	530	300/80	17 - 25	420
4569093	F 63.35 SW	850	530	T63.20/T63.20H	17 - 25	510
All-purpose bucket, round shape, for light soils, with a non-serrat						
3159551	F 438	1110	1300	268/60	12 - 20	440
3186054	F 438 SW	1110	1300	T620V/T620H	12 - 20	480

respectively with openings in the floor blade for 5 teeth 3604459

Dipper for loamy soil, slender design, without ejector

Material no.	Type designation	Width	Litres	suitable for arm width and		Weight KG
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3569488	F 01.4	400	200	168/50	6 - 11	140
3589813	F 01.4 SW	400	200	T11.20	6 - 11	172
respectively with openings in the floor blade for 3 teeth 3646766						
3171717	F 454	400	260	268/60	10 - 20	220
3186098	F 454 SW	400	260	T620V/T620H	10 - 20	265
respectively with openings in the floor blade for 2 teeth 3604459						
3171739	F 455	500	350	268/60	10 - 20	245
3186076	F 455SW	500	350	T620V/T620H	10 - 20	280
6019753	F 456	600	400	268/60	10 - 20	270
6019755	F 456 SW	600	400	T620V/T620H	10 - 20	300

respectively with openings in the floor blade for 3 teeth 3604459



Attachments for hydraulic excavators

Trench digger: rear blade, screwed sharp floor blade with water holes in the rear wall up to G69SW.

Material no.	Type designation	Width	Litres	suitable for arm width and		Weight KG
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
2232242	G 11.2	1500	260	168/50	6 - 11	225
3110429	G 11.2 SW	1500	260	T11.20	6 - 11	235
1446351	G 62	2000	400	268/60	12 - 20	345
2213669	G 62SW	2000	400	T620V/T620H	12 - 20	360
1446373	G 64	2000	560	268/60	12 - 20	405
2213647	G 64 SW	2000	560	T620V/T620H	12 - 20	415
6132650	G64MS10	2000	560	Lehnhoff MS 10	12 - 20	420
1446384	G 69	2200	700	268/60	12 - 20	480
2213636	G 69SW	2200	700	T620V/T620H	12 - 20	490
3084562	G 624	2000	800	268/60	12 - 20	600
3551148	G 624SW	2000	800	T620V/T620H	12 - 20	610
G624 equipped as a tool carrier, no rear blade, with a holder for pallet forks						
4569128	G 63.34	2000	710	300/80	17 - 25	590
4569139	G 63.34SW	2000	710	T63.20/T63.20H	17 - 25	670
4569140	G 63.36	2000	900	300/80	17 - 25	615
4569151	G 63.36SW	2000	900	T63.20/T63.20H	17 - 25	695

G11.2



G64SW



G69SW



Extra work attachments upon customer request, for example: 6143861 G64SW 3000mm Sonder (Extra)

Attachments for hydraulic excavators

Trench digger with a rear blade and screwed floor blade, swivelling: 2 x through 45 degrees, incl. 2 hydraulic swivelling cylinders with hoses up to the articulated jib with water holes in the rear wall up to G649MS21.

Material no.	Type designation	Width	Litres	suitable for arm width and		Excavator Size T	Weight KG
				bolts, Ø (mm) SWE (quick change devices)			
3560092	G 11.42	1500	260	168/50		6 - 11	280
3560105	G 11.42 SW	1500	260	T11.20		6 - 11	310
4569220	G 13.42	1500	260	268/60		9 - 13	525
4569231	G 13.42 SW	1500	260	T620V/T620H		9 - 13	540
4105117	G 642	2000	400	268/60		12 - 23	550
4105140	G 642 SW	2000	400	T620V/T620H		12 - 23	570
4105162	G 644	2000	560	268/60		12 - 23	650
4105195	G 644 SW	2000	560	T620V/T620H		12 - 23	670
6068775	G644MS10	2000	560	Lehnhoff MS 10		12 - 23	650
6103124	G644MS21	2000	560	Lehnhoff MS 21		12 - 23	670
6131258	G644PTSW	2000	560	T620V/T620H		12 - 23	740
New, without cylinder but with a Powertilt electric motor for rotary movement							
6156986	G654 NEW	2000	580	268/60		12 - 23	620
6156981	G654SW NEW	2000	580	T620V/T620H		12 - 23	640
6156825	G655 NEW	2000	780	268/60		12 - 23	650
6156789	G655SW NEW	2000	780	T620V/T620H		12 - 23	670
4551162	G 649	2200	700	268/60		12 - 23	780
4551184	G 649 SW	2200	700	T620V/T620H		12 - 23	800
6113238	G649MS10	2200	700	Lehnhoff MS 10		12 - 23	800
6083015	G649MS21	2200	700	Lehnhoff MS 21		12 - 23	820
6025229	G 53.45	2000	650	268/60		12 - 23	615
hydraulic cylinder installed for protection, with a complete cylinder cover without water holes in the rear wall							
6030801	G 53.45 SW	2000	650	T620V/T620H		12 - 23	668
hydraulic cylinder installed for protection, with a complete cylinder cover without water holes in the rear wall							
4569184	G 63.44	2000	710	300/80		17 - 25	955
4569195	G 63.44 SW	2000	710	T63.20/T63.20H		17 - 25	1050
4569208	G63.46	2000	900	300/80		17 - 25	995
4569219	G63.46SW	2000	900	T63.20/T63.20H		17 - 25	1100
6149280	G75.53	2000	860	311/80		22 - 28	980
6117682	G75.53MS21	2000	860	Lehnhoff MS 21		22 - 28	980
4902258	G 742	2200	910	forked/80		22 - 35	1005
5412837	G 742 SW	2200	910	T722/T722H		22 - 35	1100



Attachments for hydraulic excavators

Rotator (Rototilt)

The Rototilt rotator with 2 telescopic cylinders swivels 2 x through 40 degrees and rotates through 360 degrees.

Material no.	Type designation		suitable for		Weight KG
			SWE (quick change devices)	Excavator Size T	
6129250	RT620	AST8 attachment kit is to be available on the excavator.	T620V/T620H	12 - 23	600
6145950	RT620 HP	for RT620 without magnet valve			11
6118497	RT620		T620V/T620H	12 - 23	600
5401185	RT620 HP				11
5409785	E-attachment kit	possible retrofitting of the excavator; requested for	6118497		11

Rotator (Rototilt)

6142639	RT63.20-T63.20		T63.20/T63.20H	18 - 28	620
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Dipper swivel head

Material no.	Type designation		suitable for arm width and		Weight KG
			bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
1549888	G 360	Swivel head for rock buckets and trench diggers (swivelling: 2 x through 45 degrees, with 2 cylinders and hoses)	268/60	12 - 20	250
4100838	G 360SW	Swivel head for rock buckets and trench diggers (swivelling: 2 x through 45 degrees, with 2 cylinders and hoses)	T620V/T620H	12 - 20	380

6129987	PTS10	Powertilt	below: quick coupler (SW) for T620 without LH	268/60	12 - 20	360
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New, without cylinder but with a Powertilt electric motor for rotary movement



Attachments for hydraulic excavators

All-purpose bucket: round shape, no rear blade, with a non-serrated floor blade.

(G475 - G 477SW floor panel from 400HB special steel)

Material no.	Type designation	Width	Litres	suitable for arm width and		Weight KG
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
3174265	G475	1500	750	268/60	12 - 23	370
3186032	G475SW	1500	750	T620V/T620H	12 - 23	410
3174298	G476	1750	890	268/60	12 - 23	420
3186010	G476SW	1750	890	T620V/T620H	12 - 23	460
3174323	G 477	2000	1020	268/60	12 - 23	450
3185995	G 477 SW	2000	1020	T620V/T620H	12 - 23	500
4568785	G63.76	1750	1230	300/80	17 - 25	590
4568796	G63.76SW	1750	1230	T63.20/T63.20H	17 - 25	680
4568809	G63.77	2000	1420	300/80	17 - 25	655
4568810	G63.77SW	2000	1420	T63.20/T63.20H	17 - 25	790
4573884	G 83.76	2000	1600	forked/80	22 - 35	825
4550490	G 83.76 SW	2000	1600	T722/T722H	22 - 35	920

All-purpose bucket: round shape, no rear blade, non-serrated floor blade, swivelling: 2 x through 45 degrees.

incl. 2 swivelling cylinders with hoses up to the articulated jib

(G485 - G 487MS21 floor panel from 400HB special steel)

Material no.	Type designation	Width	Litres	suitable for arm width and		Weight KG
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	
4573862	G 485	1500	750	268/60	12 - 23	575
4557033	G 485 SW	1500	750	T620V/T620H	12 - 23	650
4573840	G 486	1750	890	268/60	12 - 23	610
4557055	G 486 SW	1750	890	T620V/T620H	12 - 23	675
4573828	G 487	2000	1020	268/60	12 - 23	660
4557077	G 487 SW	2000	1020	T620V/T620H	12 - 23	735
6142656	G487MS10	2000	1020	Lehnhoff MS 10	12 - 23	735
6099739	G487MS21	2000	1020	Lehnhoff MS21	12 - 23	735
4568821	G 63.86	1750	1230	300/80	17 - 25	960
4568832	G 63.86 SW	1750	1230	T63.20/T63.20H	17 - 25	1055
4568843	G 63.87	2000	1420	300/80	17 - 25	1010
4568854	G 63.87 SW	2000	1420	T63.20/T63.20H	17 - 25	1115
4573873	G 83.86	2000	1600	forked/80	22 - 35	1180
5400015	G 83.86 SW	2000	1600	T722/T722H	22 - 35	1230



Attachments for hydraulic excavators

Ripper tooth

Material no.	Type designation	Depth	suitable for arm width and		
			bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	Weight KG
6017199	H43.20		268/60	12 - 20	201
6016095	H43.20SW		T620V/T620H	12 - 20	209
4569242	H63.20		300/80	17 - 25	290
4568752	H63.20SW		T63.20/T63.20H	17 - 25	375

Heavy duty fork with 6 forked screw teeth, for pave stones picking up

Material no.	Type designation	Width	Litres	suitable for arm width and		
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	Weight KG
3509431	J 40.8	1200	400	268/60	12 - 23	476
3548303	J 40.8 SW	1200	400	T620V/T620H	12 - 23	515

load hook, capable of rotation

Material no.	Type designation	Load-bearing capacity (kN)	Length	suitable for arm width and		
				bolts, Ø (mm) SWE (quick change devices)	Excavator Size T	Weight KG
1907382	K 11.10	75	560	168/50	6-11	30
3112272	K 11.10 SW	75	630	T11.10/T11.20	6-11	50
1907393	K 610	150	690	268/60	12 - 23	50
2225061	K 610 SW	150	790	T610/T620/T620H	12 - 23	75
4568423	K63.10	200	820	300/80	17 - 25	87
4568434	K63.10SW	200	960	T63.10/T63.20/T63.20H	17 - 25	140
0729737	K 710	125	590	forked/80	22 - 35	85
2224935	K710SW	125	730	T722/T722H	22 - 35	180

load hook, incapable of rotation

3534909	K613	150	655	268/60	12 - 23	50
3572585	K613SW	150	655	T610/T620/T620H	12 - 23	60
4580429	K 713	210	650	345(closed)/80	22 - 35	55
5411256	K 713SW	200	690	T713	22 - 35	78



Attachments for hydraulic excavators

Pallet forks

Material no.	Type designation	Load-bearing capacity (To.)	Teeth length	suitable for arm width and bolts, Ø (mm) SWE (quick change devices)	Excavator	Weight KG
6149549	PG 2,5T.ZL1250MM	2,5	1250	268/60	12 - 23	210
6147343	PGSW 2,5T.ZL1250MM	2,5	1250	T620/T620H	12 - 23	210

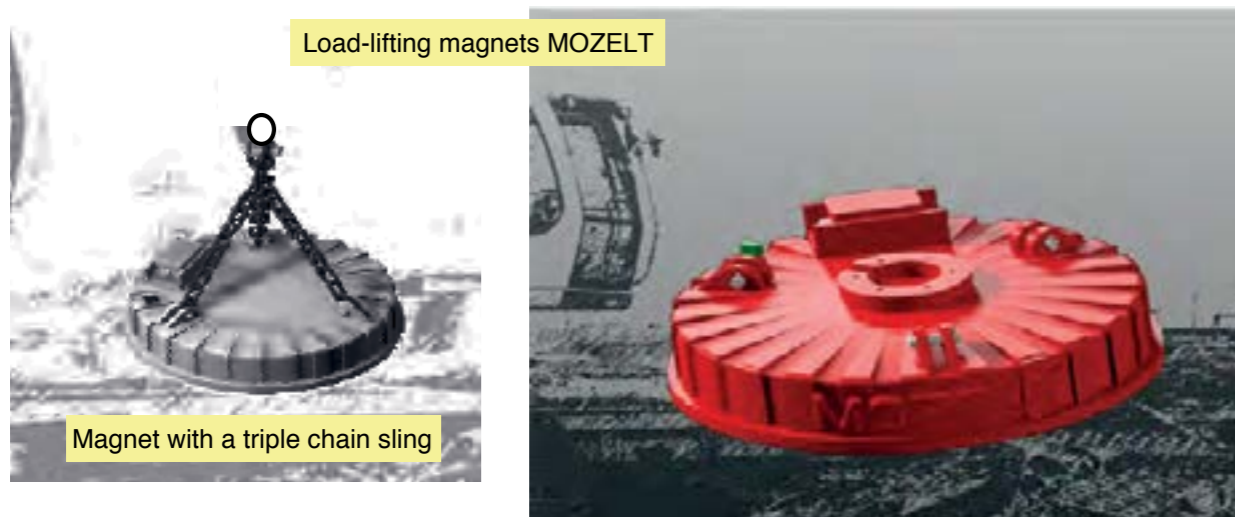
Original load-lifting magnets MOZELT

Scope of delivery: as standard with triple chain sling

Material no.	Type designation	Diameter Ø (mm)	KW	Excavator Size T	Weight KG
6063217	MLA11	1170	7,0kW220VDC/80%ED		1080
6073058	MLA12	1270	9,0kW220VDC/80%ED		1400
6068772	MLA13	1375	10,0kW220VDC/80%ED		1720
6123773	MLA15	1530	12,5kW220VDC/80%ED		2300



PGSW 2,5T.ZL 1250mm



Load-lifting magnets MOZELT

Magnet with a triple chain sling

ATLAS

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