

SCREEDS FOR ALL TYPES OF PAVING.

HIGH-PERFORMANCE SCREEDS.



MILLIONS OF KILOMETRES BEAR OUR SIGNATURE.

You build the finest roads so we can all move forward faster. And to ensure that you can progress faster, we build the best machines. As a member of the leading international FAYAT group, we supply machines for all areas of road construction – from soil compactors to cold planers and recyclers, from asphalt rollers to road pavers. For over 60 years, the history of our company has been synonymous with the history of road construction.

With our accumulated know-how, we are an innovation driver that sets the pace for an entire industry. BOMAG has developed a huge number of technologies, from systems for measuring and controlling compaction, such as ECONOMIZER and ASPHALT MANAGER, to technologies for reducing operating costs, such as ECOMODE and the most effective screed heating in the market: MAGMALIFE. We offer solutions for a wide range of applications.

Our global network of experts and partners in over 120 countries is there to support you, from the configuration of the machines to providing solutions for the most challenging of tasks.

We owe our innovative strength to our more than 2,500 employees worldwide, their commitment and their unique wealth of experience. A source of know-how which has propelled us to worldwide market leadership in this sector. The reason for this is our unconditional commitment to quality: in product development and production, in the qualification of our employees, and in a service that guarantees optimal on-site support.



SCREED HEATING.

The new BOMAG screed heating system saves money and increases safety.

- Innovation: an electric heating system with heating rods cast into an aluminium block
- Reliability: increased heating plate service life compared with conventional heating systems for the highest operational reliability
- Speed: short heat-up times of just 20-30 minutes (depending on screed width) with the excellent heat conduction of aluminium, even at maximum screed extension
- Consistency: the aluminium plates provide perfect heat distribution across the entire screed plate surface – for the perfect finish from the start



Innovation close up: Cast in heating elements for shorter heat-up times, uniform temperature distribution and enhanced protection of heating elements against corrosion.

* on MAGMALIFE aluminium heating plates



Thermal imaging camera shot from below.

TAMPER HEATING.

Both the design and material quality of the tamper heating provide paving teams with the highest operational reliability and to ensure the specified quality is met.

SHORTER HEAT UP TIMES, EVEN AT MAXIMUM SCREED EXTENSION:

- High output generator
- Energy efficiency aluminium plates
- Even at low engine speed

LOW NOISE LEVEL – MINIMUM FUEL CONSUMPTION.

OPERATION AND MONITORING OF THE SCREED HEATING.

- Easy-reach control console
- Intuitive operation
- Logical switch markings
- High-contrast display
- Separate monitoring of heating rods and tamper heating per segment
- Independent side plate heating
- Monitoring of all attachment parts



The side plate heating is operated independently from the screed heating and protects the critical edge areas from cooling down.



Tamper heating.



Generator.



Control panel with heating monitoring.

PRE-COMPACTION – BOMAG KNOWS HOW COMPACTION REALLY WORKS.

Decades of experience and the expertise of the market leader in compaction technology produce the highest pre-compaction levels, using standard components for vibration and tampers – that is everything BOMAG needs.

Pre-compaction with the BOMG high-performance screed is the result of combining the vibration of the screed plates and the frequency of the tampers. By using the high dead weight of the screed and the extra depth of the screed plates, exceptional pre-compaction values are achieved. The degree of pre-compaction can be individually adjusted by varying the frequencies for the compaction units and tamper bar.



BOMAG paver screeds produce high pre-compaction - using a tamper bar and a vibration unit.



UNIFORM PRE-COMPACTION ACROSS THE ENTIRE MAT WIDTH.

The degree of pre-compaction, and uniformity over the entire screed width produces optimal quality required for successful final compaction. And assists compliance with tolerance specifications.



Laying a 30 cm hydraulically bound base course; measured pre-compaction up to 90.8% Proctor density.

| ASPHALT | BINDER AC | 16 B - 4 CM | | | | | | |
|------------|------------------|---------------------|--------------|--------------|---------------|------------------|------------|--------------------|
| | | | - Report | | | a | | |
| A. | | - the second second | | | | | | |
| Attachment | Attachment 75 cm | Hydr. extend. | Basic screed | Basic screed | Hydr. extend. | Attachment 75 cm | Attachment | |
| 75 cm 1 | | - | | | | | 75 cm | |
| 93.50% | 93.30% | 93.90% | 93.50% | 93.20% | 93.60% | 93.60% | 93.70% | Measuring series 1 |
| 93.40% | 93.50% | 93.20% | 93.40% | 93.80% | 93.70% | 93.60% | 93.70% | Measuring series 2 |
| 93.60% | 93.20% | 93.40% | 93.40% | 93.60% | 93.30% | 93.50% | 93.50% | Measuring series 3 |
| 93.50% | 93.30% | 93.50% | 93.40% | 93.50% | 93.50% | 93.60% | 93.60% | Mean value |

Marshall density pre-compaction AC 16 BS.



Asphalt binder course AC 16 BS of 4 cm over a width of 8.0 m; measured pre-compaction up to 93.92% Marshall density.

OUTSTANDING UNIFORMITY – ALWAYS THE WAY WITH BOMAG.

BOMAG high-performance screeds produce excellent finishing in terms of evenness and uniform surface structure, irrespective of the size of project – from repair work through to motorways or airports.

BOMAG SETS STANDARDS FOR UNIFORMITY:

- Generously sized screed plates and careful weight distribution of these BOMAG high-performance screeds produce outstanding mat evenness and perfect surface structure
- Original BOMAG screed plates are made of very hardwearing steel and manufactured using the latest manufacturing methods to give optimum accuracy



Up to 40 cm deep screed plates giving perfect evenness.



BOMAG LOAD CONTROL SYSTEM (L.C.S.) – PREVENTS UNWANTED UNEVENNESS.

- The screed will not sink into hot asphalt mixes in the event of work interruptions.
- No unevenness at the start of paving or when resuming work
- Improved traction on loose material



Automatic control for high uniformity. BOMAG Load Control System (L.C.S.)



SCREED EXTENSION: QUICK ATTACHMENT SYSTEMS.

Attachment systems for BOMAG high-performance screeds provide full flexibility for all finishing widths. The attachment systems offer up to 10 m widths depending on screed type, and up to 13 m on rigid screeds.

BOMAG KNOWS WHAT EVERY JOB NEEDS WITH MECHANICAL SCREED EXTENSIONS:

Simple handling and short set-up times for maximum flexibility and best cost savings.

THE BOMAG QUICK ATTACHMENT SYSTEM ALLOWS THE FITTING OF MECHANICAL ATTACHMENTS IN THE FASTEST TIME BY:

- Hooking the attachments into designated guides
- Use of sliding couplings for the shafts of vibration units and tamper bars
- No additional screed support required
- Excellent access for assembly work





BOMAG high-performance screed S 600 attached to 10.0 m.

COST COMPARISON OF FITTING AND REMOVAL FROM 5.0 TO 6.5 M

DOMAG

| OLIICK ATTACHMEN | TOVOTENA | | |
|--------------------|---|---|---|
| QUICK AT IAOTHIE | ISYSTEM | STANDARD SYSTEM | Λ |
| | | | |
| 1 h x 2 people | = 2 h | 2 h x 2 people | = 4 h |
| | | | |
| 0.5 h x 2 people | = 1 h | 1 h x 2 people | = 2 h |
| | €60.00 | | €60.00 |
| | | | |
| | | | |
| (2 h + 1 h) x €60. | 00 x 76 | (4 h + 2 h) x €60. | 00 x 76 |
| = €1 | 3,680.00 | = € | 27,360.00 |
| | | | |
| | €68,400 | | €136,800 |
| | 1 h x 2 people 0.5 h x 2 people (2 h + 1 h) x €60.1 = €1 | 1 h x 2 people = 2 h 0.5 h x 2 people = 1 h €60.00 (2 h + 1 h) x €60.00 x 76 = €13,680.00 €68,400 | 1 h x 2 people = 2 h 0.5 h x 2 people = 1 h $\notin 60.00$ 1 h x 2 people 1 h x 2 people = 1 h $\notin 60.00$ (4 h + 2 h) x $\notin 60.0$ (2 h + 1 h) x $\notin 60.00 \times 76$ = $\notin 13,680.00$ $\notin 68,400$ (4 h + 2 h) x $\notin 60.0$ |

COST SAVING: 50%



THE OPERATING CONCEPT – MISUSE EXCLUDED

The BOMAG side control stands are equipped with all functions needed to control the screed precisely and easily. All toggle switches are arranged logically and ergonomically.

BOMAG SIDE CONTROL STANDS AND DRIVER'S CONTROL STAND.

- Individual functions can be directly selected via toggle switch
- Intuitive operation even without visual contact to the control stand
- No scrolling through sub-menus
- Robust and construction site compliant design
- No hidden adjustment errors in sub-menus
- Unambiguous, non-language-specific symbols

- No training required to operate
- The operator stations are rotatable: maximum convenience in any paving situation
- Robust and lockable anti-vandal hoods
- The opened protective hoods provide a shelf for small tools



A wide vibration insulated gangway provides maximum comfort for the operator. Ready access via the screed to the operator's platform .







BOMAG HEATING CONTROL

- The functions of each heating element are individually monitored
- Self-explanatory operation
- Easy to reach controls
- Adjustment of screed temperature with a button on the display
- The control panel includes electric connections, e.g. for tools or optional lights, as required

BOMAG LOAD CONTROL SYSTEM (L.C.S.) LOADING AND UNLOADING THE SCREED

- Screed relief pressure can be selected as required
- Delay period for drive blocking can be adjusted for any site situation
- Simple operation and easy to reach by screed personnel



OPTIMUM MATERIAL FLOW.

The amply sized augers on BOMAG screeds distribute material perfectly in front of the screed and prevent separation of material, even over large paving widths. The proportional control of the augers with ultrasonic sensors gives uniform and measured material distribution in front of the screed.

BOMAG HIGH PERFORMANCE SCREED AUGERS CAN:

- be hydraulically adjusted in height for quick and simple adjustment to the specified layer thickness
- be individually controlled and reversed
- all auger wings can be individually replaced; for simple and economical maintenance

A stable quantity of material in front of the screed is important for the floating capability of a screed and for perfect mat evenness. The pre-scrapers on the screeds can be easily adjusted for height; this allows material metering to be adjusted for any paving requirement.



CROWN ADJUSTMENT/EDGE FORMERS – FEATURES FOR ROAD PROFILING.

With high performance screeds, paving to a specified profile is standard practice. Irrespective of the mat width, with or without attachments, exact specified settings can be made quickly.



Hydraulic crown adjustment.

Edge former.

The crown adjustment is made by using the mechanical spindle, or via optional hydraulic adjustment. Profile settings ranging from -3.0% to +4.0% are available.

The use of an edge former is useful for a dense and clean asphalt edge. The edge former provides excellent support for high performance pre-compacting screeds, aiding compaction of the outer mat areas.



OPTIONS FOR TAILORED SOLUTIONS.

CENTRAL LUBRICATION SYSTEM.

During paving screed, augers or auger height adjustment are automatically fed precise quantities of lubricant by the central lubrication system – for low wear, low service costs and to maintain a high resale value.

BOMAG TELEMATIC: Monitor and manage your fleet. Know where your machines are, what they are currently doing, and when the next service is due. Alerts can be programmed automatically and all recorded data can be tracked.

HINGED SIDE PLATES.

To reduce overall width during transport.

VENTILATION SYSTEM.

For a more pleasant working environment, asphalt fumes are extracted in the auger compartment underneath the operator platform.











BOMAG LEVELLING SYSTEMS.

The levelling systems used on BOMAG pavers work with state-of-the-art components. The extensive range of sensors to monitor clearance and incline, the ease of opera-

tion, and high operational reliability make this levelling system a flexible and efficient control on all BOMAG high performance screeds.



QUALITY: HOW WE DO IT.

Quality, quality quality – the BOMAG hallmark, and never more so than in our manufacturing processes. Quality awareness and individual responsibility are ensured by careful quality management programmes. This starts with employee training which ensures a deep understanding of future responsibilities together with high quality awareness. High machine reliability on site is the result of high quality: This is how we do it.











THE BOMAG SERVICE CONCEPT.

Availability and reliability are the key factors in delivering success. We know this well. BOMAG consumables and service kits as well as original parts safeguard the full availability of your machine. Rest assured: You will save time and money.

MORE THAN 70 DIFFERENT KITS AVAILABLE FOR ALL **MODEL TYPES.**

It is vital that your BOMAG paver is regularly serviced to ensure reliability and readiness for use. BOMAG original service kits are geared to scheduled maintenance intervals to ensure high long-term performance. Using BOMAG original parts prevents consequential damage and safeguards warranty cover.

COST CUTTING.

More economical than individual parts ordering

TIME SAVING.

- Easy to find using a search engine
- Complete consumable groups under one part number
- Fitting instructions included





THE STANDARDISED BOMAG SERVICE CONCEPT ENSURES:

- Quick and simple maintenance and repair
- Good access to all service and repair areas on the paver
- The optimisation of all components commonly used by BOMAG

The BOMAG cleaning kit makes daily cleaning of the paver easy.

An environmentally friendly release agent is applied to the paver and components by a spray gun. A long plastic hose with automatic reel means any point on the paver can be readily reached. A software-assisted program makes cleaning scraper belts, augers and tamper bar easy for the operator.





TECHNICAL FEATURES S 500.





| | S 500 | |
|-----------|------------------------|----------------------|
| | 2,500 | |
| | 2,500 | |
| | 2,500 | |
| | 1,250 5,000 | 1,250 |
| | | |
| | 250 3,000-5,500 | <mark>250</mark> |
| | 500 3,500-6,000 | 500 |
| 7 | 4,000-6,500 | 750 |
| 250 7 | 4,500-7,000 | 750 <mark>250</mark> |
| 500 7 | 5,000-7,500 | 750 500 |
| 750 7 | 5,500-8,000 | 750 750 |
| 250 750 7 | 50 6,000-8,500 | 750 750 250 |
| 500 1,250 | 6,000-8,500 | 1,250 500 |
| 750 1,250 | 6,500-9,000 | 1,250 750 |

- Basic width retracted 2.55 m
- Basic width extended 5.00 m
- Max. working width 9.00 m
- Min. width with reducing skids 1.80 m
- Max. paving thickness 30 cm
- Screed plate depth 40 cm
- Screed plate thickness 15 mm
- Electric heating
- Crown profile -2.5% to +4.5%
- Tamper frequency 0-29 Hz
- Vibration frequency 20-58 Hz
- Basic weight not assembled 3,900 kg

TECHNICAL FEATURES S 600.







- Basic width retracted 3.00 m
- Basic width extended 6.00 m
- Max. working width 10.00 m
- Min. width with reducing skids 2.30 m
- Max. paving thickness 30 cm
- Screed plate depth 40 cm
- Screed plate thickness 15 mm
- Electric heating
- Crown profile -2.5% to +4.5%
- Tamper frequency 0-29 Hz
- Vibration frequency 20-58 Hz
- Basic weight not assembled 4,200 kg

TECHNICAL FEATURES S 340-2.







- Basic width retracted 1.70 m
- Basic width extended 3.40 m
- Max. working width 5.00 m
- Min. width with reducing skids 75 cm
- Max. paving thickness 25 cm
- Screed plate depth 33 cm
- Screed plate thickness 12 mm
- Electric heating
- Crown profile -3.0% to +4.5%
- Tamper frequency 0-30 Hz
- Vibration frequency 20-50 Hz
- Basic weight not assembled 1,500 kg

TECHNICAL FEATURES HF SCREED.





- Basic width retracted 1.40 m
- Basic width extended 2.60 m
- Max. working width 4.00 m
- Min. width with reducing skids 0.40 m
- Max. paving thickness 20 cm
- Screed plate depth 24.5 cm
- Screed plate thickness 10 mm
- Electric heating
- Crown profile -2.5% to +2.5%
- Vibration frequency 16-60 Hz
- Basic weight not assembled 640 kg

BOMAG HIGH PERFORMANCE SCREEDS – EXCELLENCE ACROSS THE ENTIRE RANGE.

BOMAG screeds – made for the highest quality output and paving profit.





FLEXIBILITY

Crown adjustment mechanical/hydraulic (optional) of -3% to +4%.

REDUCED COSTS

Quick attachment system for maximum paving width.

NO PAVING MARKS

Continuous screed plate on the basic screed.

SHORT HEAT-UP TIMES, UNIFORM TEMPERATURE DISTRIBUTION, HIGHEST OPERATIONAL RELIABILITY

Cast heating elements.



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HIGHEST PRE-COMPACTION

With BOMAG compaction technology.

BOMAG HIGH PERFORMANCE SCREEDS – ONE STEP AHEAD OF THE NORM.























"The success of a product depends on whether it does exactly what the customer asks. And is the reason why user-oriented research and development is our ethos."

Robert Laux, Head of Engineering and Development at BOMAG

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