

The right screed for every paving application.



High-performance screeds



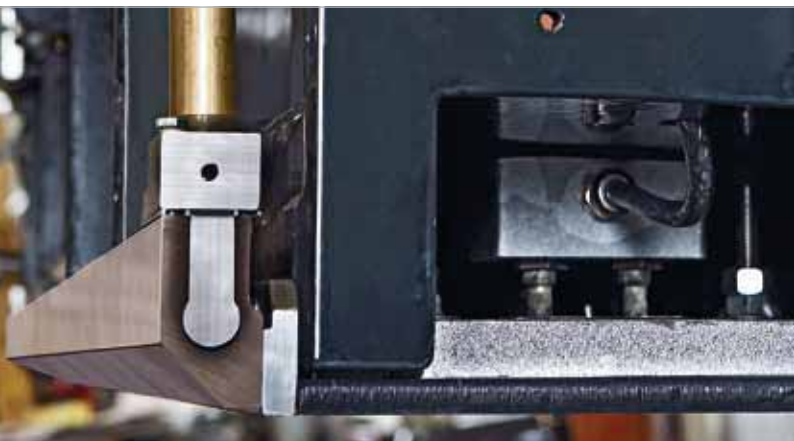


Robert Laux,
Manager Engineering and Development BOMAG

“Any successful product must do exactly what the customer wants. This is why our research is always user-oriented.”







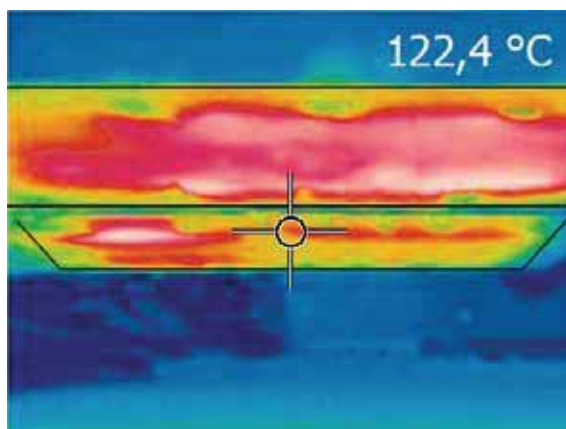
Innovation close-up: cast-in heater elements for faster warm-up, uniform temperature distribution and enhanced protection of heating elements against corrosion.



Screed heating.

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

- ◆ Innovation: the electric heating system with heating rods cast in an aluminium block
- ◆ Reliability: increased heating-plate lifetime compared with conventional systems. Offers extra operational dependability
- ◆ Speed: short heat-up time of only 20 – 30 minutes (depending on screed width) due to superior heat conductability of aluminium. Fast, even with maximum screed extension
- ◆ Uniformity: the aluminium plates ensure perfect heat distribution across the full smoothing plate surface – for the perfect finish right from the start



Thermal imaging camera shot from behind.



Side plate heating is operated independently from the screed to protect sensitive edges from cooling.

Tamper heating

The smart design and highest material quality used for tamper heating provide paving teams with maximum operational reliability, giving the specified quality every time.

Reduced heat up time – even with maximum screed extension:

- Generator with ample power output
- Energy efficiency with aluminium plates
- Even at low engine speeds



Tamper heating.

Low noise output – low fuel consumption

Operation and monitoring of the screed heating

- Easy to reach control console
- Intuitive operation
- Logically marked switches
- High-contrast display
- Separate monitoring of heating rods and tamper heating by segment
- Independent side plate heating
- Monitoring of all attachments



Generator.



Control panel with heat monitoring.

Pre-compaction: no one knows compaction better than BOMAG.

Decades of experience in compaction plus the know-how of the market leader result in dependable pre-compaction performance. We use proven components from our vibration systems and tampers – it's all we need!



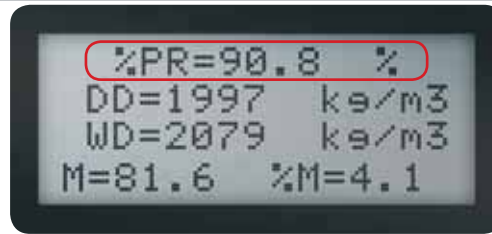
BOMAG finisher screeds deliver high pre-compaction performance – simply by using a tamper bar and vibration unit.

Pre-compaction with BOMAG high-performance screeds is the result of vibration from the smoothing plates and the frequency of the tampers combined. Add to this the heavy mass of the screed and the extra depth of the smoothing plates, high

pre-compaction results are the norm with these units.

The degree of pre-compaction can be adjusted using the frequency settings for compaction units and tamper bars.





Laying a 30 cm hydraulically bound bearing course, tested pre-compaction up to 90.8% Proctor density.

Uniform pre-compaction across the full mat width

Not only pre-compaction, but also the uniformity over the entire screed width is the basis for perfect as-specified compaction and evenness.

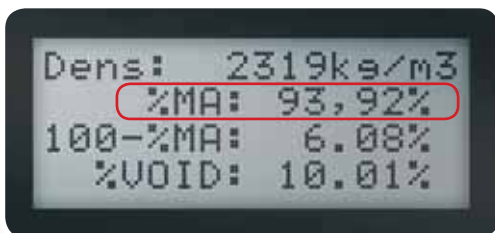
Asphalt binder AC 16 B - 4 cm

Attachment 75 cm	Attachment 75 cm	Hydr. extend.	Basic screed	Basic screed	Hydr. extend.	Attachment 75 cm	Attachment 75 cm
93,50 %	93,30 %	93,90 %	93,50 %	93,20 %	93,60 %	93,60 %	93,70 %
93,40 %	93,50 %	93,20 %	93,40 %	93,80 %	93,70 %	93,60 %	93,70 %
93,60 %	93,20 %	93,40 %	93,40 %	93,60 %	93,30 %	93,50 %	93,50 %
93,50 %	93,30 %	93,50 %	93,40 %	93,50 %	93,50 %	93,60 %	93,60 %

Measuring series 1
Measuring series 2
Measuring series 3
Mean value

Marshall density pre-compaction AC 16 BS.

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

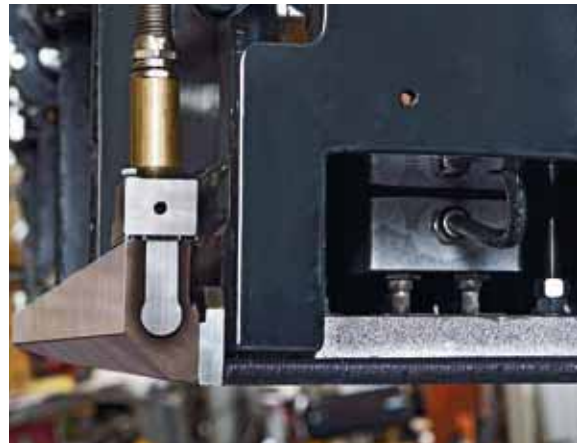


Excellent flatness – with BOMAG high performance screeds it is JUST so.

BOMAG high-performance screeds produce excellent finishing results with respect to flatness and homogeneous surface structure, irrespective of the size of the construction – from repair work up to motorways or airports.

BOMAG sets standards when it comes to flatness:

- ◆ generously dimensioned smoothing plates and an
- ◆ optimal weight distribution of the sturdy BOMAG high-performance screeds ensures outstanding flatness and perfect surface structure
- ◆ BOMAG genuine smoothing plates are made of extremely hard-wearing steel, with latest manufacturing method and under due consideration of highest accuracy



Up to 40 cm deep smoothing plates for perfect flatness.





Automatic control for perfect flatness. BOMAG Load Control System (L.C.S.) – prevents the otherwise unavoidable flatness faults.

no sinking of the screed into the hot asphalt mix
in case of process related work breaks
no flatness faults at the beginning of work or
when resuming work after supply breaks
improved traction on loose ground





Screed extension: Quick attachment systems.

Attachment systems for BOMAG high-performance screeds provide the user with a highest level of flexibility for all finishing widths. With the attachment systems one can realize 10 m, depending on screed type, and up to 13 m on rigid screeds.

BOMAG knows what customers want when it comes to the subject of mechanical screed extensions:

Simple handling and short setup times for maximum flexibility and a considerable cost reduction

The BOMAG quick attachment system enables the installation of mechanical attachments within the shortest time by:

- Hooking the attachments into dedicated 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 installation and removal from 5.0 to 6.5 m

	BOMAG quick-attachment system	conventional systems
Installation:		
Required labour hours	1 h x 2 person = 2 h	2 h x 2 person = 4 h
Removal:		
Required labour hours	0,5 h x 2 person = 1 h	1 h x 2 person = 2 h
Costs/hours	60,- €	60,- €
76 x installation and removal/year (2 x per week with 38 finishing weeks/year)		
Total costs per year:	$(2 \text{ h} + 1 \text{ h}) \times 60,- \text{ €} \times 76$ = 13.680,- €	$(4 \text{ h} + 2 \text{ h}) \times 60,- \text{ €} \times 76$ = 27.360,- €
with 5 years utilization:	68.400,- €	136.800,- €

Cost saving: 50 %



The operating concept – operating errors ruled out.

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

BOMAG side control stands and driver's control stand

- ◆ Each individual function 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 symbols, independent from languages
- ◆ No training required to learn the operation
- ◆ The side control stands are slewable and thus offer highest comfort in any work situation
- ◆ Robust and lockable protection hoods protect against vandalism
- ◆ The opened protection hoods serve as storage areas for small tools



A wide and vibration insulated gangway offers maximum comfort for the operator. The access via the screed to the driver's platform is operator friendly.



BOMAG heating control

- ◆ The functions of each heating element are individually monitored
- ◆ Self-explaining operation
- ◆ Easy to reach controls
- ◆ Adjustment of the desired screed temperature by pressing a button on the display
- ◆ The control panel includes electric connections for the connection of e.g. tools or optional lights, if required

BOMAG LOAD CONTROL SYSTEM (L.C.S.)

System for relieving or loading the screed

- ◆ Freely selectable screed relieve pressure
- ◆ Delay period for the start blockage can be chosen for any construction site condition
- ◆ Simple operation and easy to reach by the screed personnel



Optimal flow of material.

The amply dimensioned augers of the BOMAG screeds perfectly distribute the material in front of the screed and prevent demixing of material, even over large paving widths. The proportional control of the augers by means of ultrasonic sensors ensures uniform and adapted material distribution in front of the screed.

The augers of the BOMAG high performance screeds can:

- ◆ be hydraulically adjusted in height and thus enable quick and simple adaptation to the required layer thickness
- ◆ be individually controlled and reversed
- ◆ all auger wings can be individually replaced; this ensures simple and economical maintenance

An even amount of material in front of the screed is an important factor for the floating properties of a screed and thus decisive for perfect flatness. The pre-scrapers on BOMAG screeds can be easily adjusted in height, the dosing of material can thus be easily adapted to any paving situation.





Hydraulic straight crossfalls adjustment.



Edge former.

Straight crossfalls adjustment/edge formers – features to profile your road.

With high performance screeds from BOMAG the installation with any required profile is a standard task. Irrespective of the installation width, no matter whether with or without attachments, exact and practice oriented settings can be made in no time.

The straight crossfalls adjustment is made either by using the mechanical spindle, or via an optional hydraulic adjustment. Profile settings ranging from -3.0% to $+4.0\%$ are thereby possible.

The use of an edge former makes sense for producing a dense and clean asphalt flank. The edge former provides an excellent abutment for the highly compacting BOMAG high performance screeds and thereby supports the compaction of the outer flanks.





Options for individual solutions.

Central lubrication system

During operation screed, augers or auger height adjustment are permanently and automatically supplied with a precisely dosed amount of lubricant by the central lubrication system – to ensure low wear, low service costs and, last but not least, to maintain a high resale value.

BOMAG TELEMATIC: Monitor and manage your fleet. You know where your machines are, what they are doing at the moment and when the next service is due. Warnings can be programmed automatically and all recorded data can be tracked.

Foldable side plates

To reduce the overall width during transport.

Ventilation system

In order to create a more pleasant working environment, the asphalt fumes are extracted in the auger compartment underneath the operator platform.



The levelling systems used on BOMAG finishers work with levelling components of the latest technologies. The extensive range of sensors for identifying clearance and inclination, high operating

comfort and a high level of operational reliability make this levelling system a flexible and efficient control system for all BOMAG high performance screeds.



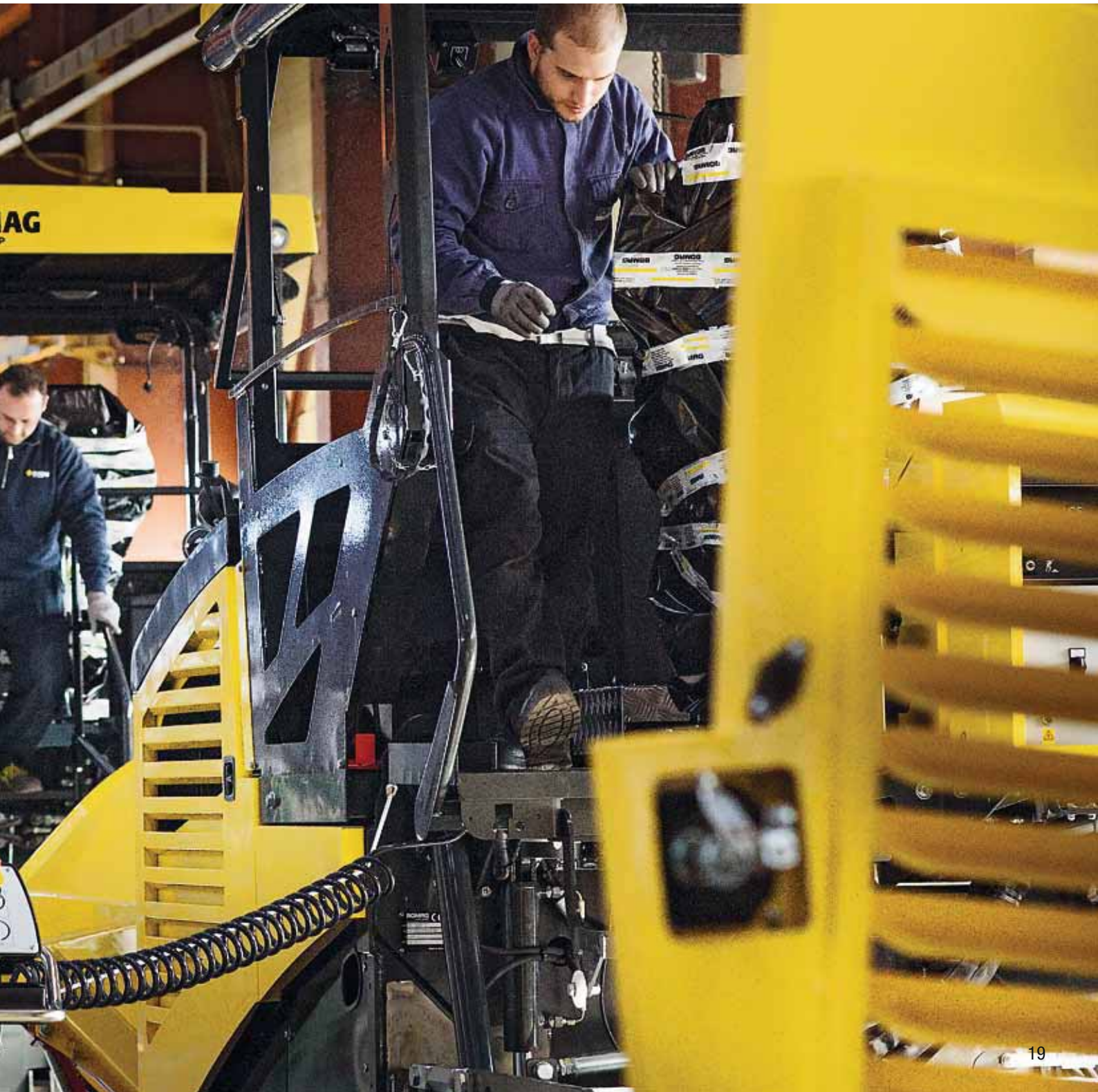
Quality: This is how we do it.

Quality, quality and, once again, quality – top priority for all company departments, and obviously also in the manufacturing of machines in particular. Quality consciousness and self-responsibility are ensured by a special quality management.

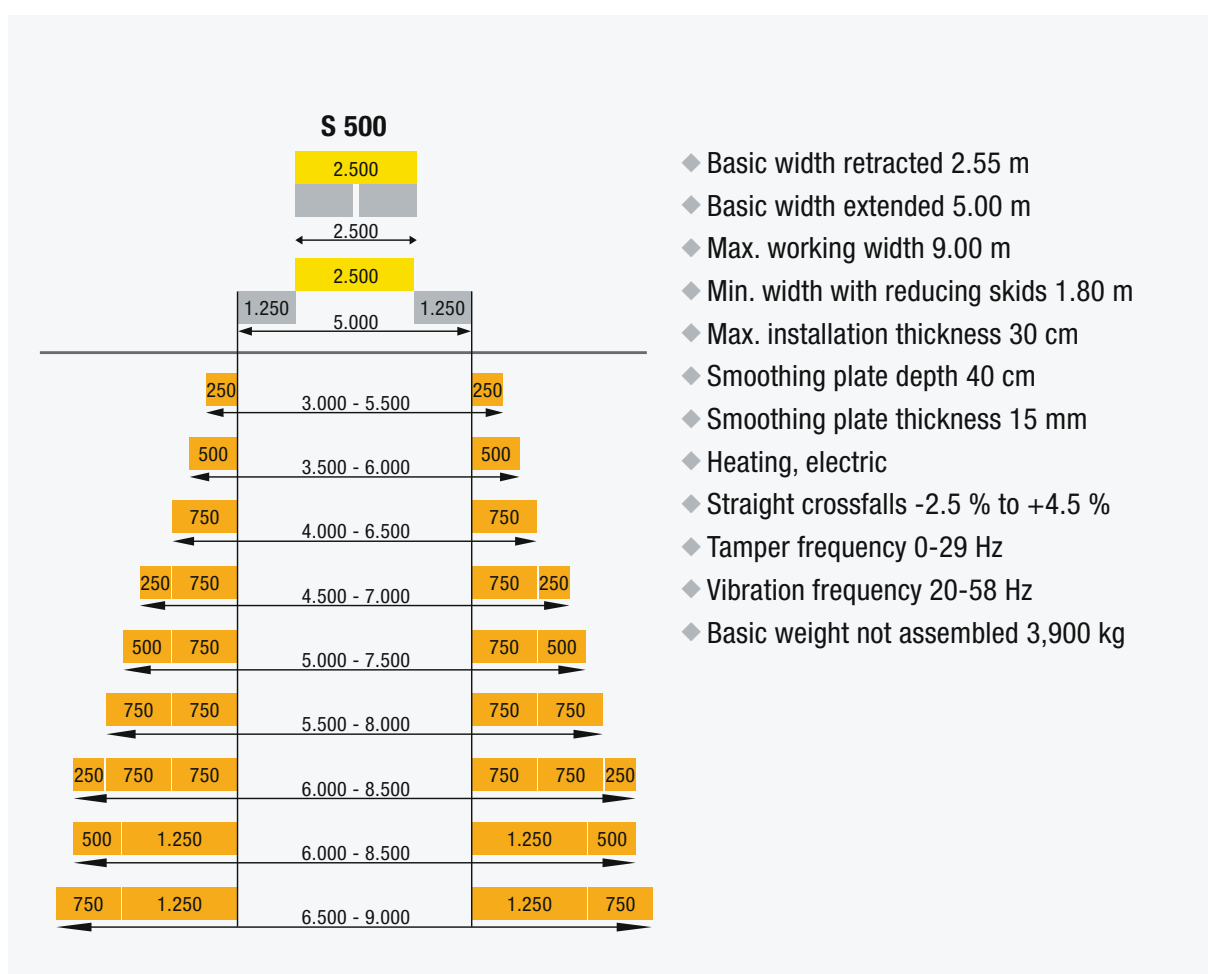




This already starts with the education of employees, who are intensively prepared for their future tasks and who distinguish themselves by their distinct quality consciousness. Reliability in operation on the construction site is the result of this high quality: This is how we do it.

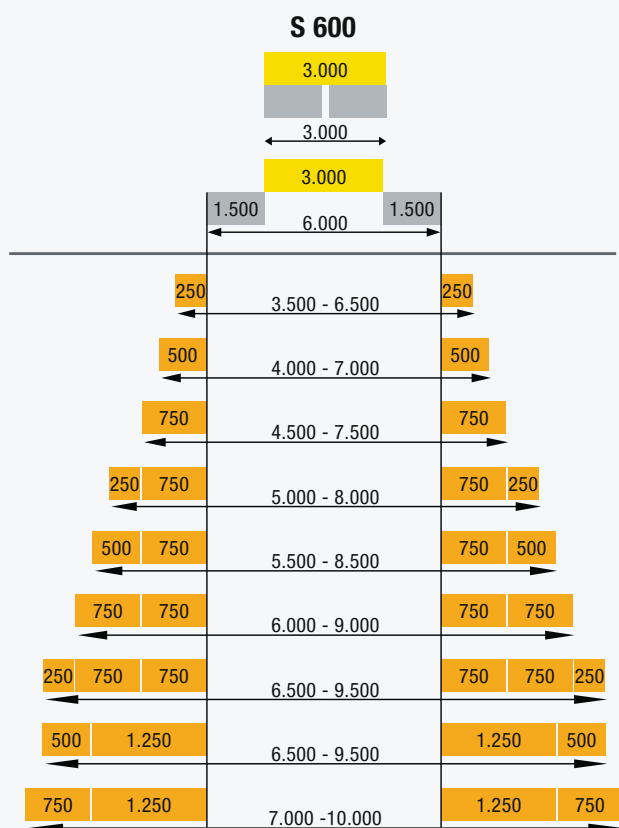


Technical features S 500.



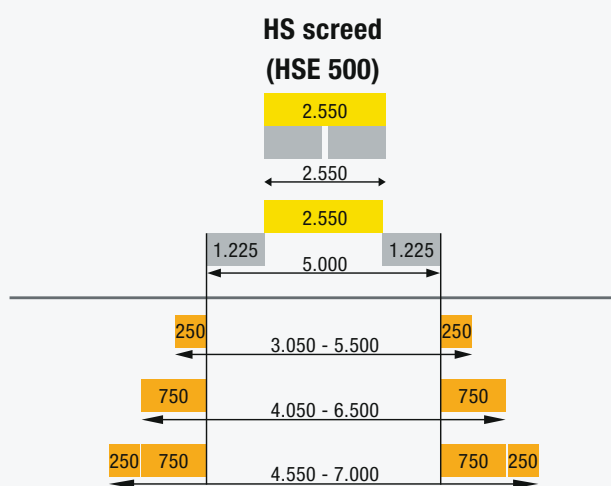


Technical features S 600.



- ◆ 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. installation thickness 30 cm
- ◆ Smoothing plate depth 40 cm
- ◆ Smoothing plate thickness 15 mm
- ◆ Heating, electric
- ◆ Straight crossfalls -2.5 % to +4.5 %
- ◆ Tamper frequency 0-29 Hz
- ◆ Vibration frequency 20-58 Hz
- ◆ Basic weight not assembled 4,200 kg

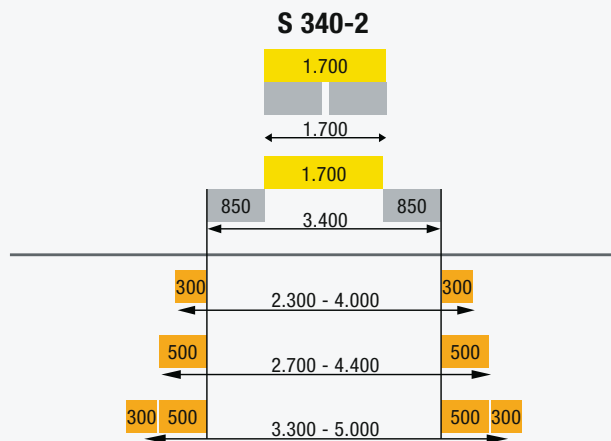
Technical features HSE.



- ◆ Basic width retracted 2.55 m
- ◆ Basic width extended 5.00 m
- ◆ Max. working width 7.55 m
- ◆ Min. width with reducing skids 1.80 m
- ◆ Max. installation thickness 30 cm
- ◆ Smoothing plate depth 40 cm
- ◆ Smoothing plate thickness 15 mm
- ◆ Heating, electric
- ◆ Straight crossfalls -2.5 % to +2.1 %
- ◆ Tamper frequency 0-29 Hz
- ◆ Vibration frequency 20-58 Hz
- ◆ Basic weight not assembled 4,200 kg



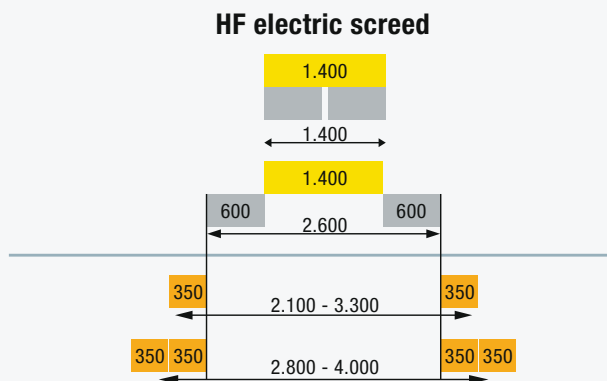
Technical features S 340-2.



- ◆ Basic width retracted 1.70 m
- ◆ Basic width extended 3.40 m
- ◆ Max. working width 5.00 m
- ◆ Min. width with reducing skids 0.75 m
- ◆ Max. installation thickness 25 cm
- ◆ Smoothing plate depth 33 cm
- ◆ Smoothing plate thickness 12 mm
- ◆ Heating, electric
- ◆ Straight crossfalls -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. installation thickness 20 cm
- ◆ Smoothing plate depth 24.5 cm
- ◆ Smoothing plate thickness 10 mm
- ◆ Heating, electric
- ◆ Straight crossfalls -2.5 % to +2.5 %
- ◆ Vibration frequency 16-60 Hz
- ◆ Basic weight not assembled 640 kg



Technical features

S 300 M.



		S 300 M	
<ul style="list-style-type: none"> ◆ Basic width 3.00 m ◆ Max. working width 13.00 m ◆ Min. width with reducing skids 2.30 m ◆ Max. installation thickness 30 cm ◆ Smoothing plate depth 40 cm ◆ Smoothing plate thickness 15 mm ◆ Heating, electric ◆ Straight crossfalls -2.0 % to +3.0 % ◆ Vibration frequency 28-58 Hz ◆ Tamper frequency 0-29 Hz 		3.000	
	1.250	5.500	1.250
	250 1.250	6.000	1.250 250
	500 1.250	6.500	1.250 500
	750 1.250	7.000	1.250 750
	250 750 1.250	7.500	1.250 750 250
	1.250 1.250	8.000	1.250 1.250
	250 1.250 1.250	8.500	1.250 1.250 250
	500 1.250 1.250	9.000	1.250 1.250 500
	750 1.250 1.250	9.500	1.250 1.250 750
	250 750 1.250 1.250	10.000	1.250 1.250 750 250
	1.250 1.250 1.250	10.500	1.250 1.250 1.250
	250 1.250 1.250 1.250	11.000	1.250 1.250 1.250 250
	500 1.250 1.250 1.250	11.500	1.250 1.250 1.250 500
	750 1.250 1.250 1.250	12.000	1.250 1.250 1.250 750
	250 750 1.250 1.250 1.250	12.500	1.250 1.250 1.250 750 250
	1.250 1.250 1.250 1.250	13.000	1.250 1.250 1.250 1.250

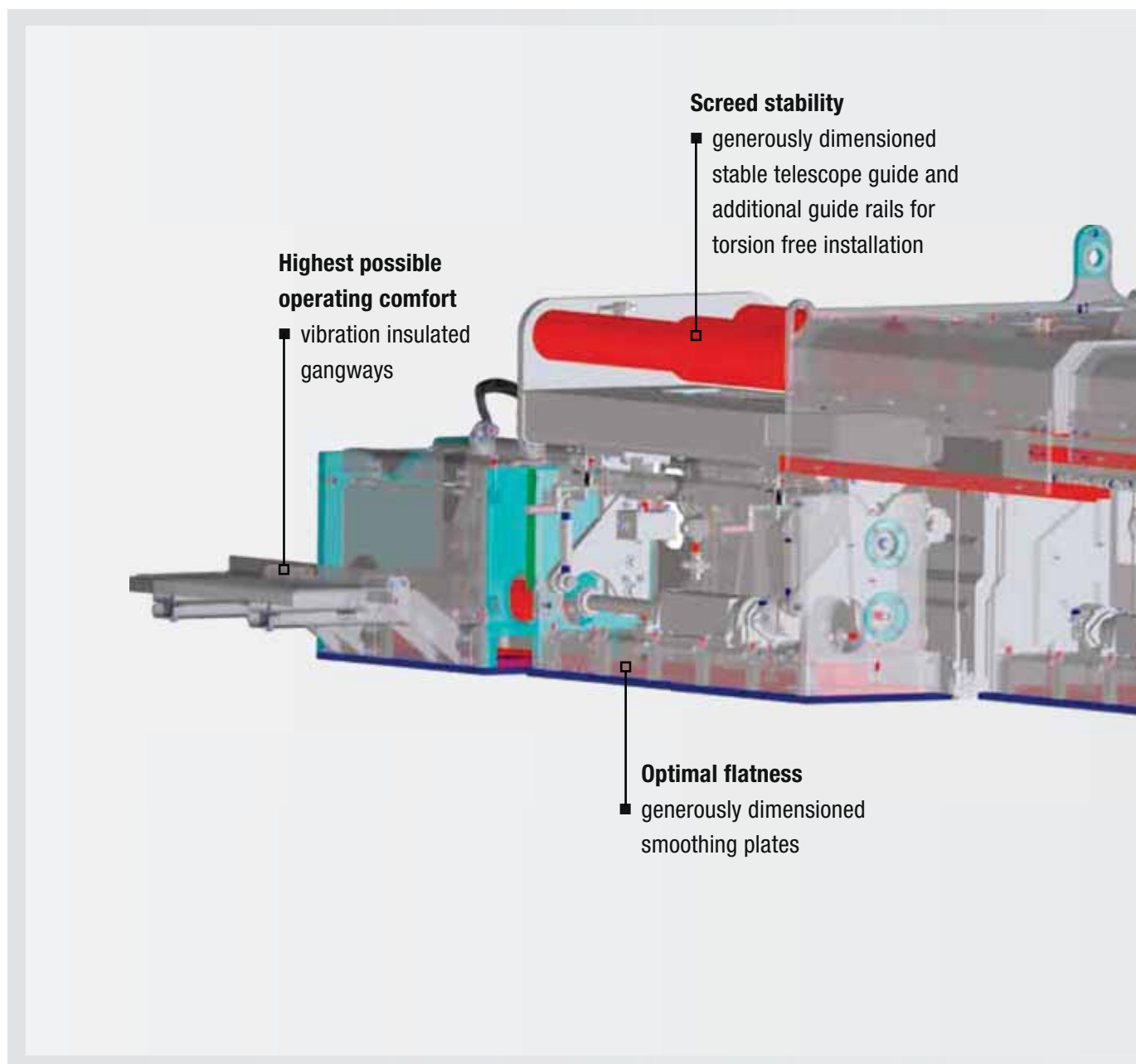
BOMAG high performance screeds – one step ahead of standard.





BOMAG high performance screeds – A full success.

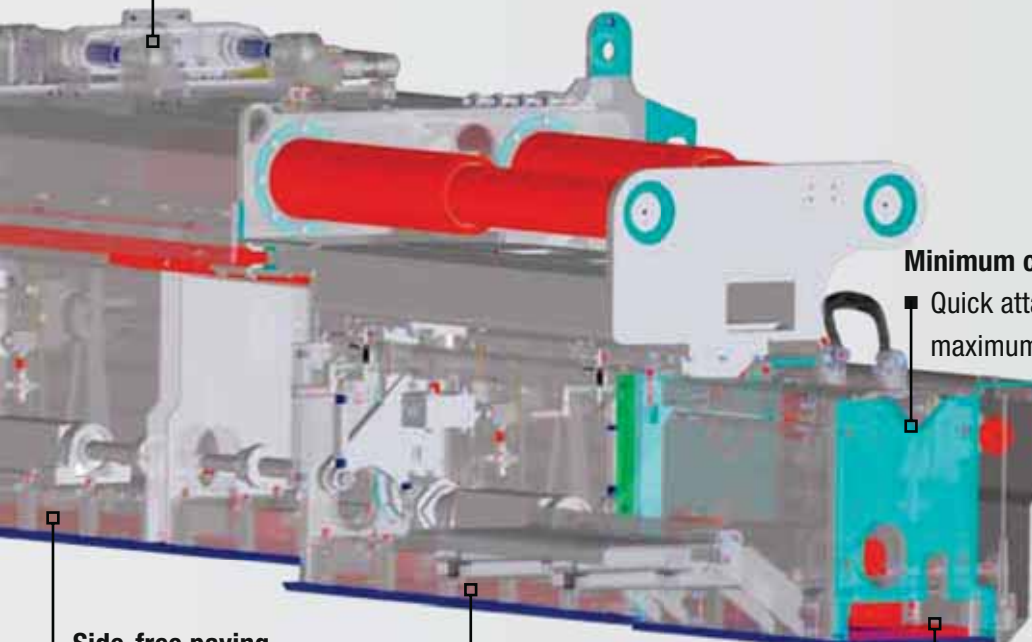
BOMAG screeds – custom made for highest quality demands and maximum economical success.





Flexibility

- Mechanical/hydraulic straight crossfalls adjustment (optional) from -3 % to +4 %



Minimum costs

- Quick attachment system for maximum finishing width

Side-free paving

- Continuous smoothing plate on the basic screed

Short heat-up times, homogeneous temperature distribution, highest level of operational reliability

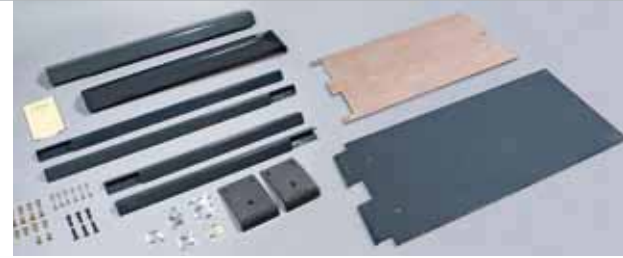
- Cast in heating elements

Highest pre-compaction values

- due to BOMAG compaction technology



BOMAG service concept.



Availability and reliability are the key factors to your success. Message received and understood. BOMAG consumables and service kits as well as original parts safeguard the availability of your machine. Be ensured: You will save time and money.

More than 70 different kits available for all types.

Cost saving

- ◆ more economical than single parts

Time saving

- ◆ easy to find with the help of a browser
- ◆ complete group of consumables under one part-number
- ◆ installation instructions included

It is absolutely crucial that your BOMAG finisher is regularly serviced to ensure it is reliable and always ready for use. The BOMAG genuine service kits are geared to the respective machine's maintenance intervals to ensure functionality long-term. Using BOMAG genuine parts prevents consequential damages and safeguards the agreed warranty claim.



BOMAG Service Kit



The standardized BOMAG service concept ensures:

- ◆ quick and simple maintenance and repair
- ◆ good access to all service and repair areas of the finisher
- ◆ the optimization of all components commonly used by BOMAG

The BOMAG cleaning kit makes daily cleaning of the finisher an easy task.

The environmentally compatible release agent is applied to the finisher and the required components by means of a spray gun. With the long plastic hose with automatic reel any point on the finisher can really be reached.

A software supported cleaning program makes cleaning of scraper belts, augers and tamper bar an easy task for the operator.



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