

## Road construction | Road maintenance





# Special machinery factory for roof, construction and road

**Founded in 1919**

**GRÜN GMBH** has been involved in the development and production of special machinery for the construction sector for decades.

The aim was and is to provide processors with technically advanced special equipment for efficient work. In this context, emphasis is placed on practice-oriented cooperation with installation companies, manufacturers of processing materials as well as work-related safety committees in order to enable operators to carry out high-quality work.







The companies in our Group work in the following areas:

- ! Road construction and road maintenance technology
- ! Road marking technology
- ! High-pressure water surface treatment
- ! Roofing equipment/Construction technology
- ! Fall protection systems

#### **Mastic asphalt machine technology..... 6 - 9**

- Horizontal mastic asphalt transport boiler  
RGTK 5000 to RGTK 11000 ..... 6
- Mastic asphalt transport and melting boilers  
ATK H1 to ATK H13 ..... 7 - 9

#### **Mastic asphalt finishers..... 10 - 14**

- Mastic asphalt finisher GAB 25 ..... 10
- Mastic asphalt finisher GAB 75 ..... 11
- Mastic asphalt finisher K 75..... 12
- Mastic asphalt finisher K 110 ..... 13
- Mastic asphalt dumper D 0.6 HD ..... 14

#### **Bitumen transport and bitumen spraying technology ..... 15 - 16**

- Bitumen spraying machine BSM 600 and BSM 1200. 15
- Bitumen spraying machine AHS 5-200 ..... 16
- Bitumen transport tank AT 2000 to AT 8000 ..... 16

#### **Joint sealing technology..... 17 - 18**

- Sealing compound boiler with capacity  
from 200l to 800l..... 17
- Hot air lance burner..... 18
- Joint sealing device AVG 50..... 18
- Joint sealing technology accessories..... 18

#### **Joint milling and cutting technology..... 19**

- FFM 15 carbide joint cutter ..... 19
- Cutters with diamond cutting technology ..... 19

#### **Manual and motorised mixer boiler..... 20**

#### **Patchmatic machines ..... 21**

#### **Contact partners ..... 22**





# Mechanical Engineering Mastic asphalt machines

## Founded in 1988

R. Kolberg GmbH was founded in 1988 in Bispingen, Germany by Reinhard Kolberg. Since then we have been manufacturing high-quality machines for transporting and laying mastic asphalt.

Due to the constantly growing demand for quality products and innovations in the mastic asphalt sector of R. Kolberg GmbH, it was necessary to expand production, and a modern production hall was built in Bispingen in 1992.

In the course of the company succession, Mr. Michael Kolberg also took over the management at this time. Under his leadership and in collaboration with his father, the market position was further expanded, and the vertical range of manufacture was extended. We have been certified according to DIN ISO 9001 since 2001. In January 2019,

a change of ownership and the appointment of new managing directors took place. Since that date, the company has been managed by Marcel Jipp and Martin Röhrs. Then as now, our customers and their satisfaction are the focus of our work.

R. Kolberg GmbH stands for the highest quality, sensible innovations and developments in mastic asphalt technology.

Our success is primarily based on mutual trust, which ensures a lasting partnership with customers, employees and suppliers.



## The current R. Kolberg GmbH product range is as follows:



- Mastic asphalt boilers 0.6 t to 13 t
- Mastic asphalt dumpers
- Mastic asphalt finishers from 1.25 m to 16.5 m paving width
- Bespoke machines according to customer requirements
- Side-strip pavers







## Mastic asphalt machine technology

### Horizontal mastic asphalt transport boilers RGTK 5000 - RGTK 11000

- Very high payload, short design with a low overall height
- Boiler capacity from 5,000 l to 11,000 l with a filling capacity of 90%.
- Efficient and economical boiler heating system with Weishaupt fuel oil burner
- Horizontal powerful, stepless, hydraulic direct agitator drive with 4-stage planetary gearbox
- Large hydraulically operated 600 mm x 360 mm outlet
- Two or three-cylinder Hatz diesel engines in Stage V version
- Electrical control cabinet with control panel and clearly arranged controls
- Boilers can be mounted on lorries, skip frames and trailer chassis with the appropriate load capacity
- With the option of measurement data acquisition technology for quality assurance on the construction site







## Mastic asphalt transport and melting boilers ATK H1 - ATK H13

- Boilers from 500 l to 5,800 l boiler capacity with vertical agitator
- Hydrostatic agitator drive with ball bearing slewing ring and drive chain
- Boiler heating by means of propane gas burner or with Weishaupt oil burner
- Diesel engine in soundproofed version
- Proven agitator drive, low dead weight, outstandingly simple operation, high operational reliability and favourable prices are the advantages of this series
- Boilers can be mounted on lorries, skip frames and trailer chassis with appropriate load capacity







Boiler ATK H 12 with high-gloss cladding and adjustable chute on lorry and with further special equipment



ATK H 12 boiler with high-gloss cladding and oil burner as well as other special equipment

## Mastic asphalt transport and melting boilers ATK H1 - ATK H13

### Standard

Model	Contents
ATK H6	2,600 ltr.
ATK H8	3,400 ltr.
ATK H12	5,400 ltr.
ATK H13	5,800 ltr.

### Small boiler

Model	Contents
ATK H1	500 ltr.
ATK H1.5	650 ltr.
ATK H2	850 ltr.
ATK H3	1,350 ltr.

### Standard equipment of our boilers from ATK H 8 upwards

- Digital thermometer for residual quantities
- hydraulic outlet
- 2 pcs. gas tanks 110 ltr.
- Stainless steel cladding (high gloss)
- 2-stage agitator drive
- Diesel engine noise-reduced design
- 26-flame ring burner with ignition burner / standard flame monitoring
- electric ignition with automatic re-ignition
- outlet 600 x 400 mm in insulated version
- Modified agitator, thereby reducing wear in the agitator wall and boiler bottom by almost half. There is also an improved mixing result.



Movable boiler on roll-off frame



Model depicted: ATK H8



## Options for our boilers

- Designed as lightweight boiler with approx. 800 kg more payload. Modified agitator, wear-resistant boiler plate in combination with lightweight motor frame and anodised aluminium cladding.
- Stageless variable agitator drive combined with more powerful hydraulic motor.  
**Advantage: higher torque on the agitator shaft.** Easy to agitate heavy materials. The agitator shaft speed can be adjusted to the particular material. (Low-wear!) approx. maximum torque: 58,000 Nm (from 8-tonne boiler)
- lateral material outlet, hydraulic  
**Advantage:** Mastic asphalt can be removed from the pavement.
- Rotating beacon light mounted on the top rear of the boiler.
- 150 ltr. gas tanks instead of 110 ltr.
- 230 volt oil burner with 200 ltr tank instead of gas burner system
- Boiler can be tilted by approx. 500 mm
- Yanmar 3TNV with DPF
- Standstill monitoring and/or  
Burner monitoring visible in rear view mirror



■ ATK H6 on ZA10



■ Platform + ladder for service, maintenance and repair

- Temperature recorder with integrated printer for retrieving and printing measurement data even on the construction site
- Flame monitoring with repeat ignition cpl. with solenoid valves and digital display instead of HGS valve
- Storage box
- Adjustable chute
- Working headlights



■ Working headlights

Of course, we also can realise other options than the ones mentioned. Please get in touch, there are (almost) no limits to fulfill your wishes in terms of bespoke solutions.





## Mastic asphalt finishers

Our mastic asphalt finishers are suitable for the mechanical paving of mastic asphalt for repair purposes and interior surfacing, e.g. large halls and parking decks, and primarily differ in size according to 'small' screeds (GAB) and 'large' screeds (K).

### Mastic asphalt finishers (type: GAB)

#### Standard equipment for type GAB 25 screeds

- Adjustable side bulkhead

#### Technical data

Installation width:	1,250 – 5,500 mm
Adjustment height:	+ 80 mm to -230 mm
Heating:	Propane tube burner made of stainless steel
Traction drive:	Diesel engine, silenced
Power transmission:	hydrostatically reversible
Working speed:	0.25 – 2.5 m/min.
Working chassis:	4-fold rubber all-wheel



GAB 25 finisher with side strip paver and further options





## Standard equipment for type GAB 75 finishers

### Technical data

Installation width:	3,750 – 8,500 mm
Adjustment height:	+ 100 mm to -250 mm
Heating:	Propane tube burner made of stainless steel
Traction drive:	Diesel engine, silenced
Power transmission:	hydrostatically reversible
Working speed:	0.25 – 3.0 m/min.
Working chassis:	4-fold rubber all-wheel



GAB 75 TST finisher with pre-equipment levelling and further options

## Options for GAB type finishers

- Rail wheels instead of rubber all-wheel
- Side-strip paver
- Assembly device
- Transport chassis
- Hydraulic height adjustment
- Lateral installation limiter hydraulic / mechanical
- Blade distributor
- Grit spreader, trailing
- Enclosure for engine unit
- Levelling
- Generator for construction site illumination



Blade distributor



Manoeuvring rollers



Side-strip paver

- Lighting
- Exchangeable end pieces

**Of course, we also can realise other options than the ones mentioned. Please get in touch, there are (almost) no limits to fulfill your wishes in terms of bespoke solutions.**





■ Mastic asphalt finisher KBR 75 on extended column chassis ready for loading

## ■ Mastic asphalt finishers (type: K)

### Standard equipment for type K 75 finishers

- Adjustable side bulkhead

#### Technical data

Installation width:	2,500 – 9,000 mm
Adjustment height:	+ 100 mm to -350 mm
Heating:	Propane tube burner made of stainless steel
Traction drive:	Yanmar diesel engine 3TNV
Power transmission:	hydraulic - direct
Working speed:	0.25 – 3.5 m/min.
Movement speed:	up to 10 m/min.
Working chassis:	4-fold crawler track



■ Mastic asphalt finisher KBR 75 SSL with blade distributor and other features

## Standard equipment for type K 110 finishers

- Smooth drum roller
- 4-fold grit rake
- Hydraulically adjustable, heated side bulkheads
- Fold-out caterpillar drives
- Tools for stitch installation

### Technical data

Installation width:	3,500 – 16,500 mm
Adjustment height:	+ 100 mm to -350 mm
Heating:	Propane tube burner made of stainless steel
Traction drive:	2 x 3-cylinder Yanmar
Power transmission:	hydraulic - direct
Working speed:	0.25 – 3.5 m/min.
Movement speed:	up to 12 m/min.
Working chassis:	4-fold crawler track



■ Mastic asphalt finisher K 110 with grit spreader and other options

## Options for type K finishers

- Plastic floor panels instead of rubber floor panels
- Lighting
- Asphalt distributor
- Generator for construction site illumination
- Exchangeable end pieces
- Remotely adjustable gritting device
- Assembly device
- Levelling
- Levelling complete with trailing shoe
- Hydraulic column chassis
- Rail trolleys
- Automatic steering
- Radio remote control
- Modem for remote maintenance and data transmission



■ Blade distributor or asphalt distributor



■ Fold-out caterpillar tracks

**Of course, we also can realise other options than the ones mentioned. Please get in touch, there are (almost) no limits to fulfill your wishes in terms of bespoke solutions.**



■ Mastic asphalt finisher



■ Loading KBR 110





## Mastic asphalt finisher GAB 25 to K 110

- For the mechanical paving of mastic asphalt in track construction, road construction and hall construction
- Installation widths from 1,000 mm to 18,000 mm
- Hydrostatic all-wheel drive or crawler tracks
- Optional column chassis for manoeuvring in the construction site or for driving onto the low loader
- Heated screed tools in milled design with pressure and smoothing surface
- Blade distributor for spreading asphalt in front of the finisher



## Mastic asphalt dumper D 0.6 HD

- Special equipment for transporting mastic asphalt on the construction site
- Fully hydraulic stepless traction drive
- Powerful four-cylinder diesel engine
- Boiler capacity approx. 620 l with high-performing vertical agitator
- ROPS-approved roll bar
- High-tilt boiler optional







## Bitumen transport and bitumen spraying technology

### Bitumen spraying machine BSM 600 and BSM 1200

- Heated spraying material tank capacity 600 l or 1,000 l plus space for a 200 l drum under the drum cover
- Bitumen pump, filter and spray bar are heated by the cooling water of the diesel engine
- Spray bar up to 3,375 mm with spray nozzles that can be individually disabled
- With the option of hydraulically extendable side panels
- Barrel preheating cover and barrel crane
- Powerful and quiet Hatz-/Kubota-diesel engines
- BSM 1200 with own trailer chassis with air brake system
- With hydraulic propulsion
- With the option of measurement data acquisition technology for quality assurance on the construction site
- **NEW BSM 600 also available as fully electric machine**





## Bitumen spraying machine AHS 5-200

- For spraying primer and bitumen emulsions by means of a hand lance
- Trailer chassis with manual driving device and a 200 l bitumen barrel-holder
- Hydraulic spray pump drive with overload cut-off
- **NEW** Machine is also available with an electric pump drive



## Bitumen transport tank AT 2000 to AT 8000

- For transporting primer, bitumen emulsions and polymer-modified binder
- Heating by means of oil burner or propane gas burner
- Bitumen tanks from 2,000 l to 8,000 l
- Water-cooled Kubota diesel engine
- Tanks mounted on trailers or lorries with corresponding load capacity







## Joint sealing technology

### Joint sealing boiler capacity from 200l to 600l

- Equipment for melting and processing bituminous hot sealing material without abrasive fillers
- Sealing boiler with horizontal or vertical agitator
- Propane or fuel oil firing
- Innovative self-propelled drives with heavy-duty drive axle or friction wheel drive for the trailer axle. This results in high performance when climbing hills. Operation via remote control or steering wheel
- Pump unit with hose system, electric heating optional
- Gating system with electric heating for edge sealing







## Hot air lance burner

- For cleaning, drying and melting crack flanks during crack repair
- Hand-guided devices with or without compressor and with optional self-propelled drive



## Joint sealing device AVG 50

- Hand-guided device for melting and processing sealing material
- 50 l hand mixer bowl with temperature control and safety temperature limiter
- Propane gas firing with ignition fuse and holder for an 11 kg propane gas cylinder

## Joint sealing technology accessories

- 10 L joint sealing unit
- Grit spreading unit
- Bitumen bucket, bitumen watering can, sealing can 3.5 l
- Screed box 8 cm wide







## Joint milling and cutting technology

Environmentally friendly dry cutting equipment for widening stress cracks and for making joints in asphalt road construction

### FFM 15 carbide joint cutter

- Cutting depth up to 30 mm
- Kubota diesel engine
- Ride-on machine with self-propelled drive
- Slow-running hydraulically driven cutting tool, which ensures low-level dust generation and high daily output



### Cutters with diamond cutting technology

- Cutting dust extraction with collection container
- Cutting depths up to 165 mm possible
- Petrol or diesel engine
- Cutters for pushing, with friction wheel or hydraulic self-propelled drive





# Manual and motorised mixer boiler

For melting thermoplastic road marking compounds, bituminous joint sealing, rail sealing and rail underlay materials.

## Motorized mixer boiler

- Boiler capacity from 120 l to 800 l
- Indirect or direct propane gas or fuel oil firing with high melting capacity
- Vertical or horizontal agitator, hydraulically or electrically driven



## Manual mixer boiler

- Boiler capacity from 50 l to 230 l
- Vertical hand mixer
- Indirect or direct propane gas firing with high melting capacity







## Patchmatic machines

- For the permanent renovation of damaged asphalt roads
- The heated binder tank is insulated
- Grit container in the two-chamber system
- The working arm has a radius of approx. 3.8 m
- Operated from the front part of the arm or from the lorry cab
- Water-cooled diesel engine for the hydraulic proportionally controlled drives of the binder pump, the air blower and the grit conveyor screw
- The Patchmatic machines can be mounted on interchangeable platforms, lorry or trailer chassis with corresponding load capacity.







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