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Rehabilitating asphalt surfaces using the hot recycling process. **Remixer 4500**

Outstanding features of the Remixer 4500

METERING BIN

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Storage container for continuously adjustable discharge of virgin mix onto the belt conveyor.

GAS TANKS

Liquid-gas twin-tank system with filling level indicator to ensure energy supply to the infrared radiators.

BELT CONVEYOR

Heavy-duty scraper conveyor to forward and add virgin mix to the recycling process.

BINDER TANK

Heated binder tank for the storage of bituminous binding agents.

RECEIVING HOPPER

Large hopper to receive virgin mix from the truck.



TWIN-SHAFT COMPULSORY MIXER

Heated mixer with high-strength internal lining to ensure homogeneous mixing of the scarified asphalt pavement, binder and virgin material.

HEATING SYSTEM

Infrared radiator elements adjustable to the specified working width for effective heating of the surface course and underlying base.

SCARIFIER SHAFTS

Scarifier shafts adjustable to the specified working width and fitted with carbide tools for gentle scarification of the pavement material.



Recycling asphalt

the efficient way.

THE WIRTGEN REMIXER 4500. A PERFECTLY ENGINEERED SPECIALIST MACHINE FOR THE HOT RECY-CLING PROCESS. REHABILITATING ASPHALT SURFACE COURSES IN AN EXTREMELY SHORT PERIOD OF TIME. FROM URBAN ROAD TO MOTORWAY. FAST, ECONOMICAL, ENVIRONMENTALLY BALANCED. AND MEETING EXACTING REQUIREMENTS. IN A SINGLE OPERATION. THE REMIXER 4500 SETS THE STAND-ARD IN THIS TECHNOLOGY. IN OPERATION WORLDWIDE - RECOGNIZED WORLDWIDE. QUALITY AND PERFORMANCE. COUNT ON IT.

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WIRTGEN



Bituminous road surfaces in need of rehabilitation are repaired in a single pass.

Turning old into new with the Remixer 4500

LARGE-SCALE REHABILITATION OF ASPHALT SURFACE COURSES

In many cases, it is only the surface course of an asphalt road that is damaged. Provided the subgrade is still intact and stable, the Remixer 4500 hot recycler rehabilitates such pavements quickly, economically and in line with ecological principles. In just a single pass, this compact large machine removes the preheated surface course, mixes it with new asphalt and binding agents as required and places it again immediately thereafter. The final result of this innovative in-situ recycling process is a new, high-quality layer with the same performance characteristics as a surface course produced using a conventional process. Supplementary mixes and binders can be added to the process precisely in accordance with the type of damage and quality requirements.

The environmental aspect is just as important: the existing pavement material is fully re-used, making it possible to save about 70% of the virgin mix volume.





The Remixer moves into position swiftly when in transport mode.

State-of-the-art operation to create premium road pavements

REMIX OR REMIX-PLUS

Remix process:

The Remixer 4500 and a panel heating machine travelling immediately ahead heat up the asphalt surface course by means of high-performance heaters. In the next step, rotating scarifier shafts gently scarify the pavement while an accurately metered amount of binding agent is injected at the same time. The scarified material is removed by scraper blades. Tools arranged on the scarifier shafts in a helical pattern convey the material into the mixing chamber, where it is subsequently mixed with virgin asphalt material to create a homogeneous mix.

The spreading auger then spreads the discharged material evenly on the preheated base. Heating the bituminous base ensures an excellent bond between layers by "hot-in-hot" application. The surface course is then placed and sufficiently pre-compacted by the integrated paving screed. Final compaction is carried out by rollers.

Remix-Plus process:

The Remix-Plus process is similar to the Remix method, the only difference being the application of an additional thin layer of virgin asphalt mix. Virgin material is discharged from the receiving hopper via a belt conveyor and placed on top of the previously remixed material.

A second auger positioned downstream of the first auger spreads the new material evenly, followed by a second screed which paves the fresh layer immediately thereafter. A premium-quality special mix may be used for the upper, thin surface course.

REMIX PROCESS



REMIX-PLUS PROCESS



Scarifier shafts

Shafts fitted with carbide tools for gentle scarification of the pavement material

Injection system

System governing the addition of binding agents

Twin-shaft compulsory mixer

Heated mixer with high-strength internal lining for homogeneous mixing of the scarified pavement, binder and virgin material

Belt conveyor

Heavy-duty scraper conveyor to forward and add virgin mix to the recycling process

Spreading auger Spreading auger for even distribution of the recycled material

Paving screed VÖGELE paving screed with hydraulic tamping and vibrating unit





Shafts fitted with carbide tools for gentle scarification of the pavement material

Injection system

System governing the addition of binding agents

Twin-shaft compulsory mixer

Heated mixer with high-strength internal lining for homogeneous mixing of the scarified pavement and binder

Spreading auger 1

Spreading auger for even distribution of the recycled material

Levelling screed

Screed placing the surface course treated with a binding agent prior to overlaying with a new, thin surface layer

Belt conveyor Heavy-duty scraper conveyor to transport virgin mix behind the levelling screed

Spreading auger 2 Spreading auger for even distribution of the virgin material

Paving screed VÖGELE paving screed with hydraulic tamping and vibrating unit



Hot recycling - economic efficiency guaranteed

UNRIVALLED COST EFFICIENCY FOR MANY TYPES OF SURFACE DAMAGE

Hot recycling offers a tremendous saving potential. Around 85% of truck transports and about 70% of virgin mix are saved in comparison to conventional methods using milling machines and road pavers. A typical example: a 4-m wide, 10-km long carriageway is being rehabilitated, which is equivalent to a surface of 40,000 m². Assuming a weight of the surface course of 100 kg/m², about 400 truck transports would be required for the conventional method: 200 to remove the milled material from site, and another 200 to deliver the new asphalt mix. When adding the standard amount of approx. 30 kg/m², only 60 truck loads of new material are needed in total - 340 less than with conventional methods!

The amount of energy needed to deliver the new construction materials is extremely small, and the process does not incur any costs related to the storage or disposal of reclaimed material.

The types of surface damage which can be repaired using this method include rutting, pavement irregularities, cracking, loss of material, insufficient skid resistance or age-related wear.

1 The low amount of virgin mix required results in enormous savings on both energy and valuable resources.





2 Traffic passes by the moving roadworks, and the new pavement can be used by cars and trucks again very soon after cooling.

3 Hot recycling is much more economical in terms of cost than conventional rehabilitation methods.





High performance full control.

ALL IS SET TO GO, WAITING FOR YOUR COMMAND. VARIOUS AUTOMATED FUNCTIONS ARE CONTROLLED VIA SEPARATE CONTROL PANELS. CLARITY AND SIMPLICITY COME AS STANDARD FEATURES. ALLOWING YOU TO FOCUS ON WHAT'S REALLY IMPORTANT: TOP QUALITY WORK RESULTS. PLUS ERGONOMICS, VISIBILITY AND LOTS OF SPACE ON THE OPERATOR'S PLATFORM. DESIGNED WITH PERFECTION IN MIND. GIVING YOU FULL CONTROL. RELAXED WORKING, TREMENDOUS OUTPUT.



The machine's high level of automation enables it to be operated by a small crew only.

Packed with technology yet easy to control

UNMATCHED EASE OF OPERATION

Clearly arranged controls on the operator's platform along with intelligently positioned, separate panels to control the paving screed, heating panels, scarifier and receiving hopper ensure ease of work for the operating crew. During operation, the respective unit is always in the operator's direct field of view. It goes without saying that all controls are labelled in a language-neutral and clear fashion and are easy and intuitive to operate. To sum it all up, these features play a vital role in ensuring the economical, productive operation of the Remixer 4500. As a result, the operating crew is always in full control of the situation while work is progressing almost automatically. To maintain the specified working depth at all times, the operating crew is supported by tried-and-tested WIRTGEN levelling technology. Important job parameters, such as the quantity of binder added, are continuously displayed on the screens.

In addition, the ergonomically designed walkthrough operator's platform provides ample space and legroom, as well as a perfect view of the entire Remix train.









1 The driver's seat and main control panel can be mounted on the left or right side of the machine.

2 The controls on the main panel are arranged within easy reach and in the operator's field of view.

3 Crew members on the ground can easily intervene in the process.



Effective heating

of asphalt surfaces.

WIRTGEN HAS BEEN ENHANCING THE REHABILITATION METHOD FOR BITUMINOUS SURFACE COURSES CONTINUOUSLY FOR OVER 35 YEARS. THE REMIXER 4500 THEREFORE COMBINES LONG-STANDING EXPERTISE AND STATE-OF-THE-ART TECHNOLOGIES GEARED TO FIELD REQUIREMENTS. WE HAVE PERFECTED THE EFFECTIVE THERMAL TREATMENT OF ASPHALT SURFACES USING INFRARED HEAT-ERS. CUSTOMERS APPRECIATE THE HIGH-QUALITY WORK RESULTS AND LOW COST AND MATERIAL REQUIREMENTS.

Precisely directed heat transfer

STATE-OF-THE-ART TECHNOLOGY ENSURES POWERFUL, EFFICIENT HEATING

1 | Liquid-gas twintank system with a capacity of 5,300 l, including filling level indicator, pressure gauge and temperature indicator.

The sophisticated, highly effective gas combustion process provides the Remixer 4500 with maximum heating performance: this is ensured by hydraulically driven blowers mounted on top of the heating units, which



supply additional oxygen to the heating zone. High-performance infrared heaters supplied with propane gas gently heat up the existing asphalt surface. The uniform heating pattern prevents thermal damage to the binder, guaranteeing its uncompromised quality. The gas pressure – and thus the heating performance of the infrared heaters – can be precisely adjusted in the individual zones of the Remixer 4500 via the centrally positioned gas pressure regulator.

Operators can adjust the amount of heat applied to the ambient temperature, material condition and working depth. The use of HM 4500 panel heating machines travelling ahead of the Remixer ensures effective and uniform heating of the asphalt surface.



2 A perfectly balanced mixture of heat and infrared radiation ensures high performance and uniform heating of the asphalt surface.

3 | Blowers guarantee an effective heating output.

4 Complete heating circuits or individual heaters can be switched on or off separately in accordance with requirements.









The individual heating panels are folded out hydraulically.

Heating panels are folded out quickly and conveniently

READY FOR OPERATION QUICKLY TO ACHIEVE HIGH AREA PERFORMANCE

Work can start almost immediately after arrival on site. Simply move the heating panels and receiving hopper into their working positions, and off you go. The individual heating panels on the left and right can be folded out in a few simple steps. This system enables easy and convenient heating of large surfaces. In addition, the tremendous working width creates an overlapping heating pattern that ensures a seamless bond with existing carriageway surfaces. Since hot recycling usually involves the addition of virgin mix, the Remixer 4500 is equipped with a large, fold-open receiving hopper. The conveying routes to the mixer and to the area in front of the spreading auger are heated to keep the temperature of the mix sufficiently high. To avoid any interruptions in the recycling operation during unloading, trucks are pushed by rollers mounted on the receiving hopper.







1 The heating panels are divided into segments that can be folded out individually for flexible adjustment of the working width.

2 | The heating panels are moved into working positon in next to no time.



3 The receiving hopper is equipped with hydraulically operated, tilting side walls.



Superior and the second functionality. Comments (IIII) and the

CARBIDE TOOLS SCARIFYING THE PAVEMENT IN A GENTLE PROCESS. A POWERFUL MIXER PRODUC-ING HOMOGENEOUS RECYCLED MATERIAL. A SCREED FOR PROFESSIONAL PAVING APPLICATIONS. PERFECTLY MATCHED COMPONENTS. BASED ON PERFECTLY ENGINEERED TECHNOLOGIES. IN THE REMIXER 4500, THESE TECHNOLOGIES ARE PAIRED WITH SUPERIOR FUNCTIONALITY. IN OTHER WORDS: THE REMIXER 4500 SETS THE BENCHMARK.

Flexible scarifier system for gentle processing

FOR PERFECT PAVING RESULTS

Fully reuse the existing pavement material without destroying its grain structure during the recycling process. The WIRTGEN hot recycling method meets this important requirement.

Rotating scarifier shafts gently scarify the heated pavement. The material is then removed by scraper blades to exactly the specified depth and conveyed into the compulsory mixer by the scarifier shafts. The recycling depth can be precisely adjusted via automatic sensors. The scarifying unit consists of three scarifier shafts: the two front shafts are continuously adjustable in horizontal direction while the rear, fixed shaft is divided centrally in order to also enable the efficient rehabilitation of road surfaces specifying a central crown.

The intelligent arrangement of the cutting tools on the shafts guarantees perfect scarification of the pavement material. Carbide tools made by WIRTGEN are synonymous with tried-and-tested, wear-resistant, state-of-the-art technology.

1 | Wear-resistant carbide tools mounted on the scarifier shafts in a helical pattern.





2 The working width of the scarifier shafts can be adjusted hydraulically via heavy-duty guides.

3 Centrally divided rear scarifier shaft for road surfaces specifying a central crown.







Heated bitumen injection system to gently heat up the binding agents.

Adding binders with meticulous care

PERFECT METERING OF BINDING AGENTS

The addition of binding agents in accurately metered quantities is crucial for the production of as-new surface courses complying with most diverse property specifications. This is why we have fitted the Remixer 4500

Binder injection bar above the scarifier shafts.



with an innovative bitumen injection system. The heated binder tank has a capacity of approx. 1,600 litres, and the technology does the rest.

Electrically heated feed lines, metering via a continuously adjustable binder pump with automatic microprocessor control in accordance with the machine's advance speed, thermostat-controlled heating and flow meters with non-contact measurement are all features that ensure full compliance with the specified mix designs.

Perfect mixing quality

HOMOGENEOUS MIXTURES

The heated compulsory mixer produces a homogeneous mix from the reclaimed pavement material, supplementary materials and binding agents. The powerful mixer drive with synchronized shafts ensures homogeneous mixing. Following thorough mixing, the recycled pavement material is placed in front of the spreading auger in a continuous windrow pattern.

The heavy-duty mixing arms and blades in the powerful twin-shaft compulsory mixer.

A core analysis of the damaged surface course carried out prior to construction provides information about the composition of the materials to be added.





Screeds and augers are adjusted via control panels mounted on both sides of the machine.

Paving true to grade and slope

PAVING SCREED WITH TAMPING AND VIBRATING UNIT FOR EFFICIENT PRE-COMPACTION

The Remixer 4500 is equipped with an original, state-of-the-art extending screed from paver manufacturer VÖGELE. The screed is continuously adjustable to allow working widths ranging from 3.0 m to 5.0 m. This triedand-tested unit does a perfect job also when it comes to paving the new surface course true to grade and slope. In front of the paving screed, a sensor-controlled spreading auger distributes the recycled mix evenly across the entire working width. The screed's hydraulic tamping unit ensures reliable pre-compaction of the recycled pavement material. For the Remix-Plus process, the Remixer 4500 is equipped with an additional spreading auger and levelling screed.

As the spreading auger can be hydraulically adjusted in height, perfect distribution of the mix is always ensured even at varying paving thicknesses. The centrally divided spreading auger can be operated in clockwise or counter-clockwise direction and at varying conveying speeds.









1-2 | The paving screed is extended and retracted hydraulically at the mere flick of a switch.

3 The vario screed is fitted with an automatic levelling system to ensure precise paving to the specified level.





Maximum availability -



HEAVY-DUTY MACHINE COMPONENTS DESIGNED FOR TOUGH OPERATING CONDITIONS. EASE OF TRANSPORT GUARANTEED. LARGE GAS TANKS FOR EXTENDED UPTIMES. THE WIRTGEN GROUP IS AT YOUR DOORSTEP WORLDWIDE OFFERING EFFECTIVE MAINTENANCE AND RELIABLE SERVICE SUP-PORT. WE HAVE MADE IT OUR TOP PRIORITY TO ENSURE THE OPERATIONAL AVAILABILITY OF YOUR HOT RECYCLER ON A DAILY BASIS. SO THAT TOMORROW WILL BE YET ANOTHER SUCCESSFUL WORK-ING DAY WITH YOUR REMIXER 4500.

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Maintenance and servicing made easy



KEEPING THE REMIXER IN GOOD SHAPE

A minimum amount of maintenance is a "must". That being said, our Remixer 4500 impresses with unmatched ease of maintenance. A large, wide-opening service panel provides easy access to the fully enclosed engine compartment. Components to be serviced, such as the engine, valve block or oil and air filters, can be easily replaced or inspected in a convenient body posture. In addition, the two gas tanks can be easily filled from a tanker vehicle. All things considered, the recycler's ease of maintenance gives the operator a profitable lead, allowing rapid completion of the construction project.

Effortless transport

DESIGNED WITH EASE OF TRANSPORT IN MIND

The large machine offers great ease of transport despite its tremendous dimensions and weight.

The Remixer 4500 requires only little transport capacity since it can be transported as a single unit. The operator's platform and various operating modules of the hot recycler can be folded in or retracted for transport purposes.

Numerous heavy-duty loading and lashing lugs enable the machine to be safely lashed down for transport. Parts of the operator's platform projecting over the edge of the machine are folded in to save space.





Technical specification

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Fuel consumption, ²/₃ load37 l/hEmission standardsEC Stage 3a/US EPA Tier 3Electrical system24 VElectrical power supply24 VTank capacities1,000 lFuel tank1,000 lHydraulic fluid tank1,000 lBitumen tank1,600 lGas tank5,300 l	Displacement	11,906 cm ³
Emission standards EC Stage 3a / US EPA Tier 3 Electrical system 24 V Electrical power supply 24 V Tank capacities 1,000 l Fuel tank 1,000 l Hydraulic fluid tank 1,000 l Bitumen tank 1,000 l	Fuel consumption, full load	55 l/h
Electrical system Electrical power supply 24 V Tank capacities Fuel tank Hydraulic fluid tank Bitumen tank Gas tank	Fuel consumption, ² / ₃ load	37 l/h
Electrical power supply24 VTank capacities1,000 IFuel tank1,000 IHydraulic fluid tank1,000 IBitumen tank1,600 IGas tank5,300 I	Emission standards	EC Stage 3a/US EPA Tier 3
Tank capacitiesFuel tank1,000 lHydraulic fluid tank1,000 lBitumen tank1,600 lGas tank5,300 l	Electrical system	
Fuel tank1,000 IHydraulic fluid tank1,000 IBitumen tank1,600 IGas tank5,300 I	Electrical power supply	24 V
Hydraulic fluid tank1,000 IBitumen tank1,600 IGas tank5,300 I	Tank capacities	
Bitumen tank1,600 lGas tank5,300 l	Fuel tank	1,000 l
Gas tank 5,300 l	Hydraulic fluid tank	1,000 l
	Bitumen tank	1,600
Receiving hopper 3 m³/6 t	Gas tank	5,300 l
	Receiving hopper	3 m³/6 t

*1 = The maximum milling depth may deviate from the value indicated, due to tolerances and wear

Driving properties	
Operating gear	0-5 m/min
Travel gear	0-4 km/h
Theoretical gradeability	90%
Ground clearance	350 mm
Tyres	
Type of tyres	Solid rubber
Tyre size, front	Ø 1,180 mm
Tyre size, rear	Ø 1,180 mm
Shipping dimensions	
Machine (L x W x H)	15,600 x 3,000 x 3,000 mm

Weight of base machine	
Front axle load, full tanks	23,200 kg
Rear axle load, full tanks	26,700 kg
Empty weight of machine without filling media	45,700 kg
Operating weight, CE*2	47,900 kg
Operating weight, max, (full tanks, max, weight of additional equipment features)	49,900 kg

Standard equipment

Base machine	
Basic machine with engine	
Pick-up hopper for holding new mixed material equipped with starter rolls for truck as well as hydraulically tipping side walls	-
Capacity approx. 3 m ³	
Robust, hydraulically driven chain conveyor in the hopper with heated conveyor tunnel	
Lockable, hydraulically opening engine cover with integrated sound-attenuation	
Filling of the machine hydraulics with mineral hydraulic oil VG46	
Paint standard cream white RAL 9001	
Scarification and mixing rotor	
Three-part scarifier unit operating in synchronous rotating mode, with hydraulically driven, rotating scarifier shafts and integrated scraper plates, transporting to the mixer	-
Working width 3,000 mm to 4,500 mm, hydraulically infinitely variable	
Working depth up to 60 mm	
Roof profile adjustment up to max. 2.5%	
Heated twin-shaft pugmill mixer, hydraulically driven, with high-strength interior lining	
Mixing capacity approx. 90-120 t/h	
Spreader auger divided in the middle, with external hydraulic drive motors	
The auger body is widened to adapt to different paving widths by means of connectable ancillary parts	-
Electronic sensors control the material flow at the spreader auger (proportional control)	
Control on right and left is independent	
Spraying unit/binding agent addition	
Dosing unit for holding and preliminary dosing of the new mixed material	-
Robust chain conveyor in the chassis, hydraulically driven, with infinitely variable transport speed	
Microprocessor-controlled addition of the new mixed material	
The mixed material can be transported either to the mixer (via a hydraulically opening flap) or directly in front of the paving screed	-
The belt conveyor is controlled either manually or by an automatic function	
Paving unit	
Extraction screed, model VÖGELE AB500 TV-2, with an infinitely variable paving width from 3,000 mm to 5,000 mm, electrically heated	
Infinitely variable, hydraulically driven temper and vibration units for high preliminary compaction	

= Standard equipment
= Standard equipment, replaceable with optional equipment
= Optional equipment

Machine control and levelling system	
Automatic levelling function, consisting to two electronic sensors, keeps the preselected scarification depth constant	-
Scanning is performed between the chassis and scarifier unit	•
Control on right and left is independent	
Operator's stand	
Continuous operator's stand with control panel, double-sided approach	
Control panel can be changed over to right and left	•
Additional control panels on right and left of the pick-up hopper	•
Scarifier unit and extraction screen and a main control panel with microprocessor control above the extraction screen	
Chassis and height adjustment	
Infinitely variable, hydraulic all-wheel drive via front and rear axle with two speed ranges	
Solid tyres	
All-wheel steering with "crab"	
Others	
Double gas tanks with a capacity of approx. 5300 l with safety quick shut-off valves for removing liquid gas and the gas phase	
Gas-fuelled vaporizer with thermostat control	•
Infrared heater for heating up the existing asphalt surface. Can be folded out and in for adapting to different working widths.	
The maximum heating width is 4,700 mm	•
Gas control station for controlling the power of the individual heating panels via pressure regulator valves	
The heating panels are equipped with an additional ventilation system, consisting of 8 hydraulically driven fans	
Total heating capacity: approx. 1,250,000 kcal/h	•
The gas unit of any machine is inspected and accepted by the German Technischer Überwachungsverein (TÜV)	•
Lighting system for nighttime working	
Safety package with emergency stop switches for diesel engine and gas unit	
Lockable tool box with set of tools for maintenance and servicing	
Lockable tool box with set of tools for maintenance and servicing	

= Standard equipment
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= Optional equipment

Optional equipment

Base machine	
Paint in one special colour (RAL)	
Paint in two special colours (RAL)	
Paint in maximum two special colours with substructure in special colour (RAL)	
Spraying unit/binding agent addition	
Additional device bitumen system 1,600 litres	
Paving unit	
Levelling board Remix-Plus	
Machine control and levelling system	
Automatic levelling for the levelling board	
Ski scanning for the paving screed	
Sonic-Ski scanning for the paving screed	

Dimensions





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