

An Innovative Technology.

The World of Wirtgen Cold Recyclers and Soil Stabilizers



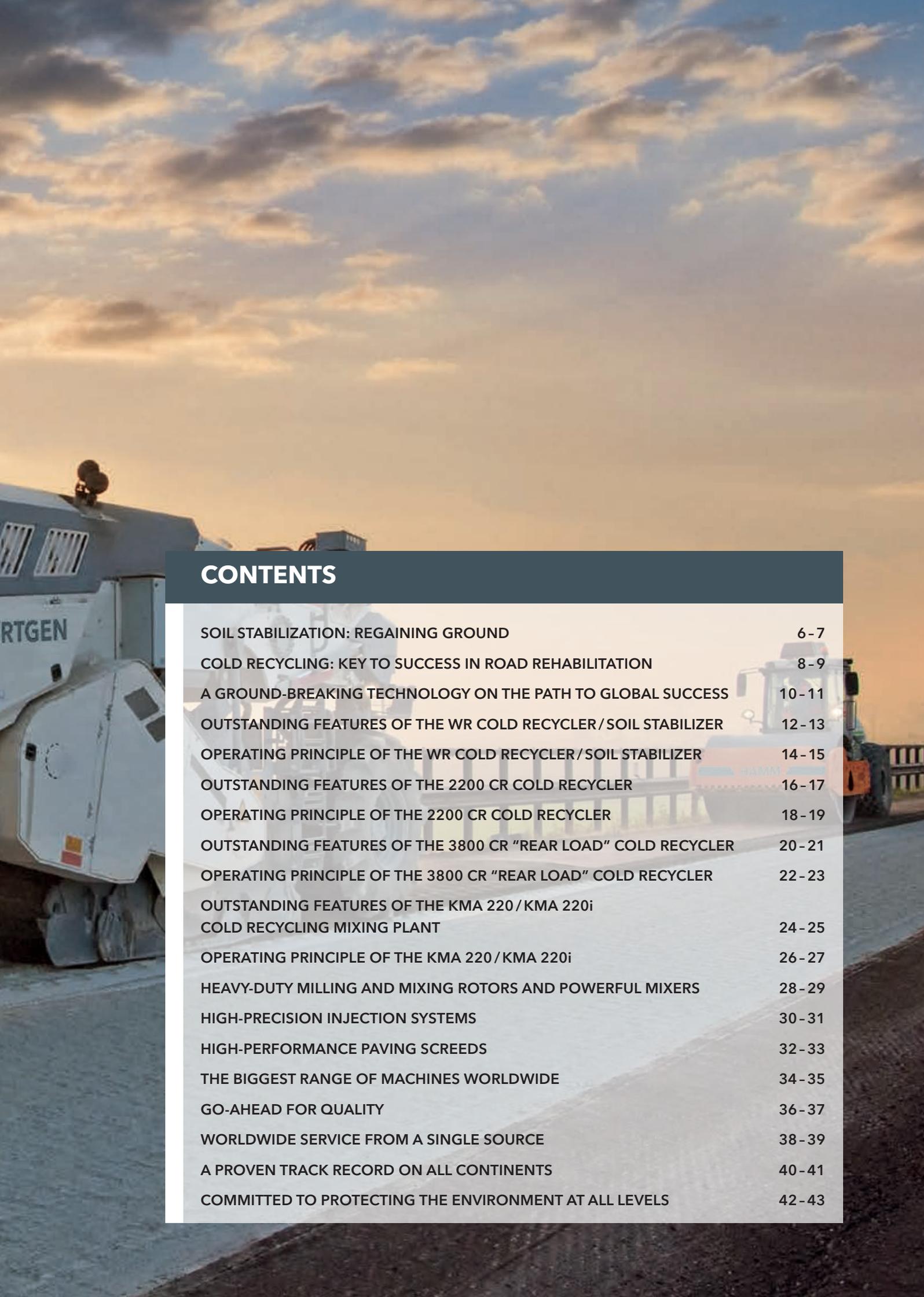




Maintaining and expanding traffic infrastructure.

ROADS FREQUENTLY EXHIBIT DAMAGES IN THE LOWER PAVEMENT LAYERS. THIS IS WHERE THE COLD RECYCLING TECHNOLOGY COMES IN: THE METHOD REHABILITATES THE ENTIRE PAVEMENT STRUCTURE, THUS ACHIEVING A PERMANENT INCREASE IN BEARING CAPACITY. IN THE NEW CONSTRUCTION OF TRAFFIC SURFACES, SOIL STABILIZERS ARE USED TO TREAT THE EXISTING SUBGRADE MATERIAL. AS A PIONEER IN COLD RECYCLING, WE AT WIRTGEN HAVE FULLY DEDICATED OURSELVES TO THIS ECONOMICAL AND ENVIRONMENTALLY FRIENDLY TECHNOLOGY. HAVING ACQUIRED THE TECHNOLOGY LEADERSHIP IN THIS HIGHLY COMPLEX FIELD, WE ARE ABLE TO MAINTAIN THE PERFORMANCE OF ROAD PAVEMENTS ON A LONG-TERM BASIS.





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Soil stabilization: Regaining ground

PRODUCING A HOMOGENEOUS SUBGRADE

Heavy, excessively wet ground gives road builders a hard time as roads require a stable base. This being the case, the bearing capacity of the existing ground - which will later form the backbone of the new road - needs to be ensured beforehand for each road construction project. Soil stabilizers convert ground of insufficient bearing capacity into soil that is highly suitable for placing and compacting. Added lime improves the existing soil, while added cement strengthens it.

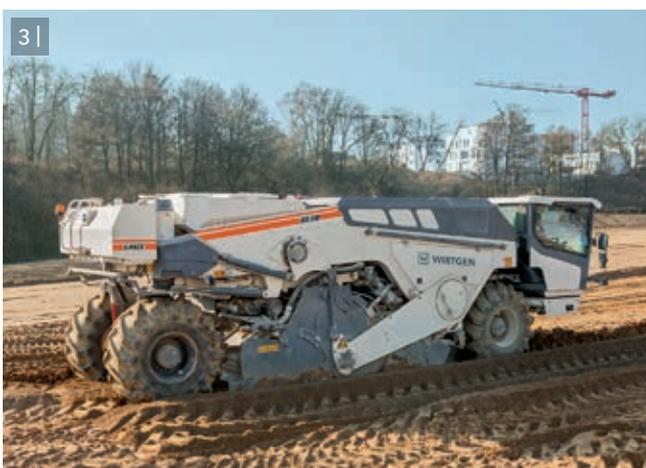
Our soil stabilizers master a wide range of different applications in soil improvement and soil strengthening, such as the construction of roads, parking lots, industrial facilities, airports, harbour facilities or track beds. They can also be used for various earthmoving operations, such as the construction of embankments, slopes and backfills. Special applications include the production of linings in landfill construction.

The fast-paced, environmentally friendly process dispenses with having to exchange the soil in a complex, expensive operation.



1 + 2 | Our soil stabilizers convert difficult ground into high-quality construction materials.

3 | The „S-Pack“ (Spreader-Pack) allows the dustless addition of binders, thus extending the range of applications and optimizing economic efficiency.



BINDING AGENTS FOR ECONOMICAL SOIL STABILIZATION:

- > Lime improves the paving properties and compactability of wet, cohesive soils.

This process is referred to as soil improvement.

- > Cement increases the bearing capacity, volume stability and resistance to water and frost on a sustained basis.

This process is referred to as soil stabilization.

Cold recycling: Key to success in road rehabilitation

08
09

NEW PAVEMENTS IN A SINGLE OPERATION

The cold recycling process involves milling and granulating damaged asphalt layers which are then rebound, placed again and compacted. The range of binders suitable for cold recycling includes water, cement, bitumen emulsion and foamed bitumen. Yet another hallmark is the "Rear Load" process developed by WIRTGEN: the recycled material is transferred, via a loading conveyor, to an asphalt paver following behind for immediate placing.

WIRTGEN cold recyclers are the ideal choice for a broad scope of applications ranging from recycling thin asphalt layers on minor roads with low traffic volumes all the way to recycling thick asphalt packages on heavily trafficked motorways subject to extreme loads.

The mobile KMA 220/KMA 220i cold recycling mixing plant is also part of the WIRTGEN range of cold recycling products. Set up in the immediate vicinity of the construction site, it produces cold mixes for road construction, adding various binders in the process.



1 | In conveyor design, the mix recycled in down-cut mode is transferred to an asphalt paver following behind for immediate placing.

2 | The 2200 CR is fitted with an integrated paving screed to pave and pre-compact the recycled mix.

3 | The mobile KMA 220/ KMA 220i cold recycling mixing plant produces up to 220 t/h of high-quality paving mix.



BINDING AGENTS FOR ECO-NOMICAL COLD RECYCLING:

- > Cement is a hydraulic binding agent which increases the bearing capacity of road pavements.
- > Bitumen emulsion consisting of bitumen and water increases flexibility and reduces crack formation.
- > Foamed bitumen, the innovative binder developed by WIRTGEN, produces base layers of high strength in a highly economical and sustainable process.
- > The combination of foamed bitumen and cement results in highly stable base layers of high flexibility.

A ground-breaking technology on the path to global success

1986

The tracked 2000 VCR cold recycler is taken to the starting grid, offering a working depth of 20 cm.



1991

The 1000 CR is fitted with an integrated screed, paving the recycled material during the actual recycling process.



1994

The mobile slurry mixer enables cement to be added in a dustless process.



1995

The WR 2500 is WIRTGEN's first full-fledged soil stabilizer, featuring a distinctive lifting column design.



1998

The mobile KMA 150 cold recycling mixing plant equipped with an independent power supply is set up on a flatbed truck.



2003

The WR 4200 model is launched, featuring variable working width and twin-shaft compulsory mixer.



2006

The WS 2200 and WS 2500 tractor-towed stabilizers are launched for use in small-scale soil stabilization projects.



2012

The new generation of WR models performs to the highest quality standards - whatever the job.



1993

The CR 4500 is the first high-performance recycler for seamless pavement recycling across the full width.



1996

An injection system for the production of foamed bitumen is developed.



2004

The easily transported WR 2000 and multi-purpose WR 2400 are introduced into the market.



2013

The 3800 CR "Rear Load" mixes milled material and binder and then immediately transfers the mix to a road paver.



A NEVER-ENDING STORY OF SUCCESS

From modified road milling machine to highly specialized cold recycling train - that's a brief way of summing up the impressive development history of the cold recycling technology at WIRTGEN. From the beginnings - in the mid-1980s - we were fascinated by the huge potential offered by cold recycling, and since then we have played a key role as the acknowledged technological leader in this field.

So it goes without saying that we have paved our path of success with numerous innovative milestones. We have also been a pioneer in using foamed bitumen as a binding agent, and have taken the lead in the industry since the 1990s in working with this innovative material. Our comprehensive service and support during construction projects has always been of central importance, and was a contributing factor to the breakthrough of this method.

Outstanding features of the WR cold recycler/soil stabilizer

12
13

2 | AUTOMATIC FEATURE FOR
THE WORK PROCESS

3 | PRECISE METERING SYSTEM
FOR BINDING AGENTS

1 | WIDE RANGE OF
APPLICATIONS

4 |

2 |

3 |

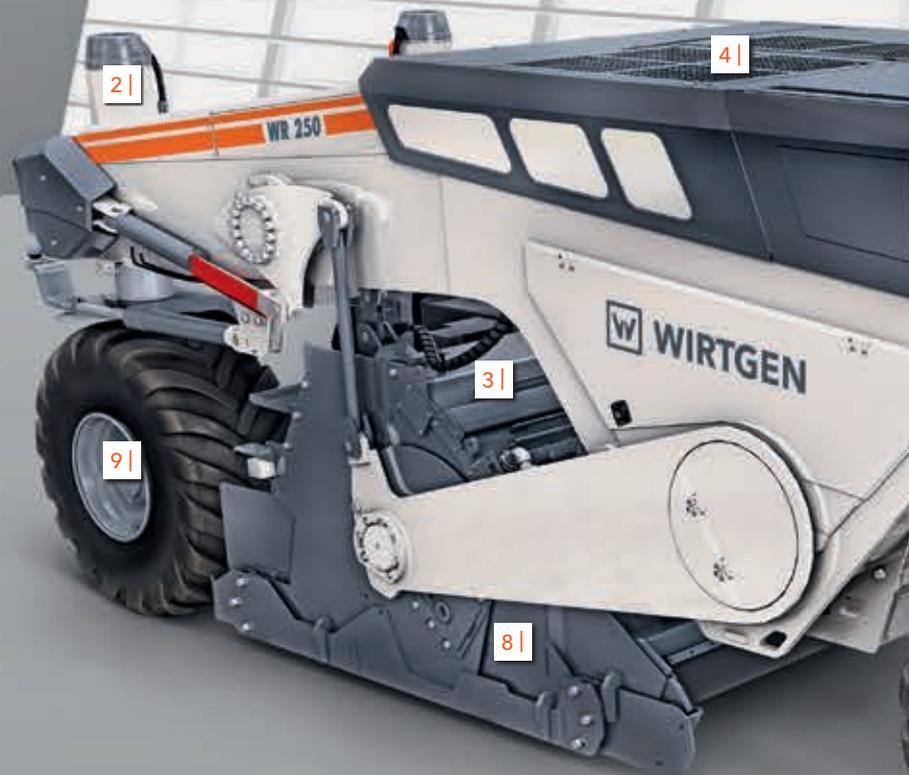
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9 |

8 |

9 | STEERING SYSTEM IN LINE
WITH FIELD REQUIREMENTS

8 | HIGH MILLING AND
MIXING PERFORMANCE



ADDED VALUE THAT PAYS DIVIDENDS

WIRTGEN offers the most comprehensive machine portfolio worldwide for cold recycling and soil stabilization. The finely tiered WIRTGEN WR model range is suitable for a broad range of applications, thus offering the perfect solution for each type of job to be performed in soil stabilization or cold recycling. The operator enjoys perfection in ergonomic machine design and handling. An intuitive operating concept and various automatic features for the work process support the highly efficient use of the WR model range. The operator is additionally supported by a perfect visibility concept paired with an intelligent camera system. Unrivalled all-terrain mobility and steering systems engineered to field requirements play their advantages especially in soil stabilization. Our expertise and experience of many years pay off in maximum milling and mixing performance. Reliable, high-precision metering systems add to ensuring an excellent mixing quality.

4 | EFFICIENT ENGINE AND DIAGNOSTIC SYSTEMS



5 | PERFECT VISIBILITY CONCEPT AND COMPREHENSIVE CAMERA SYSTEM

6 | PERFECTION IN ERGONOMIC DESIGN AND HANDLING

7 | OUTSTANDING ALL-TERRAIN MOBILITY

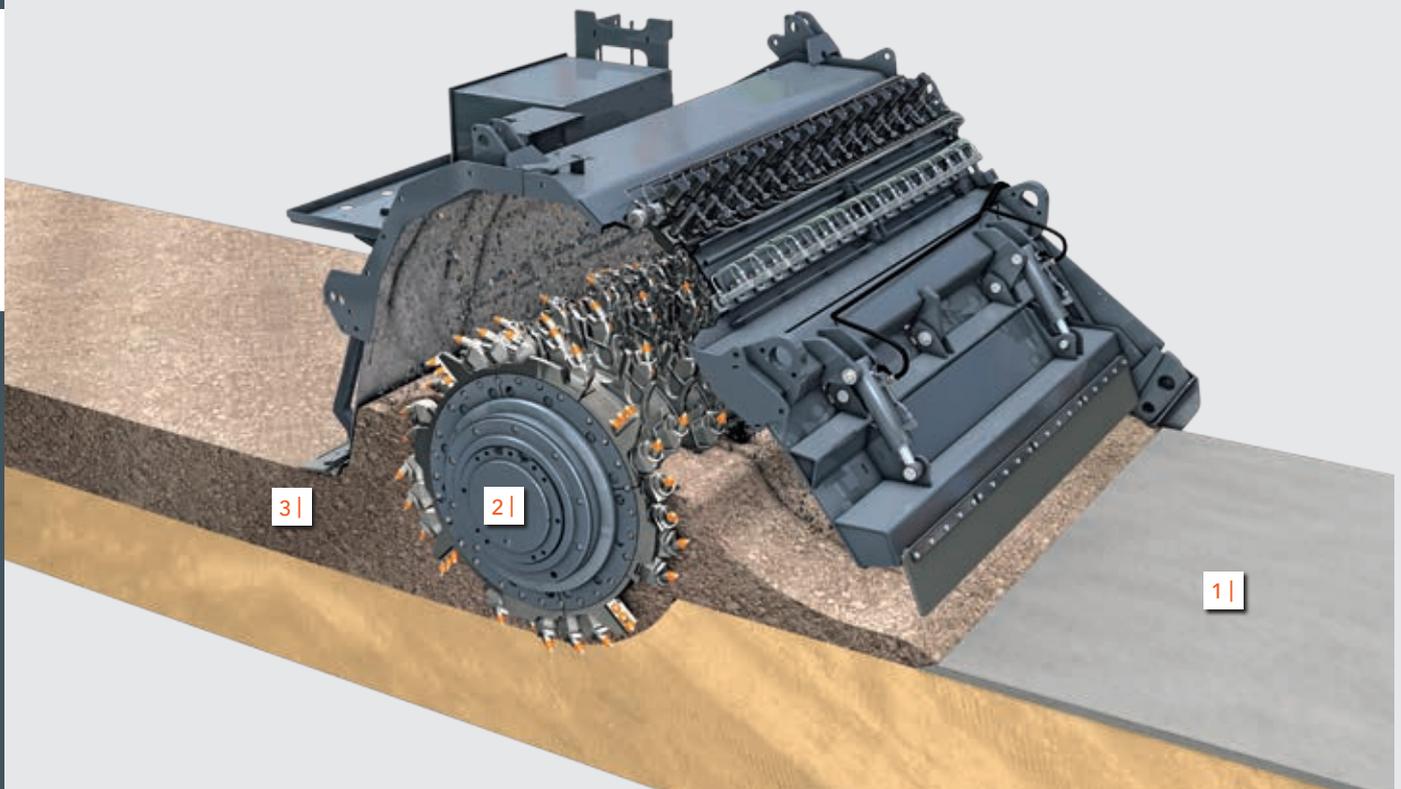
1|

1| Pre-spread binder

2| Milling and mixing rotor

3| Processed, homogeneous soil-binder mixture

Working direction →



Operating principle of the WR cold recycler/soil stabilizer

HERE'S HOW IT WORKS

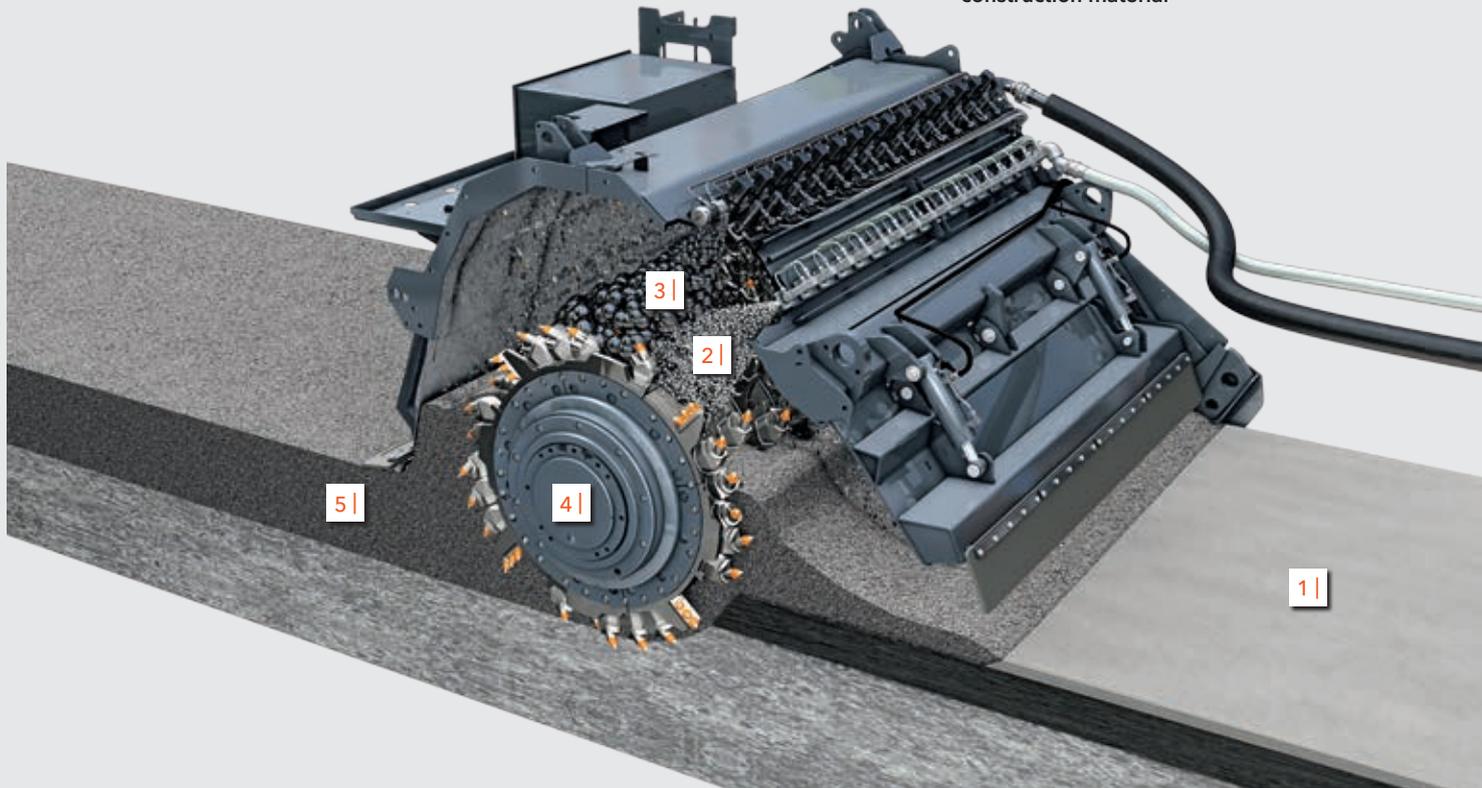
A separate Streumaster binder spreader usually pre-spreads binding agents such as lime or cement. Following behind, the powerful milling and mixing rotor installed in the cold recycler / soil stabilizer mixes the asphalt layer in need of rehabilitation or the non-load-bearing soil with the pre-spread binder. Water is provided via a hose connection coupled to a water tanker truck and injected into the mixing chamber via an injection bar.

The recycled material is levelled off by a pressurized scraper blade at the rear rotor plate to create a perfectly even surface. In a final step, the soil is compacted by suitable HAMM earth compactors.

The highly resource-efficient process requires only small amounts of new material as existing construction materials can be fully reused. Compared to conventional soil exchange, no costs are incurred for transport, stockpiling or dumping material in disposal sites.

- 1 | Pre-spread cement
- 2 | Injected water
- 3 | Injected foamed bitumen
- 4 | Milling and mixing rotor
- 5 | Recycled, homogeneous construction material

Working direction 



3 |

1 | Soil stabilization: the milling and mixing rotor mixes the existing soil, any required amounts of pre-spread lime or cement and water to produce a homogeneous mix.

2 | Cold recycling: the milling and mixing rotor granulates the asphalt, injects any required amounts of binder and water and mixes the construction material mixture.

3 | The WIRTGEN WR 200 comes into its own when operating in difficult geological conditions.



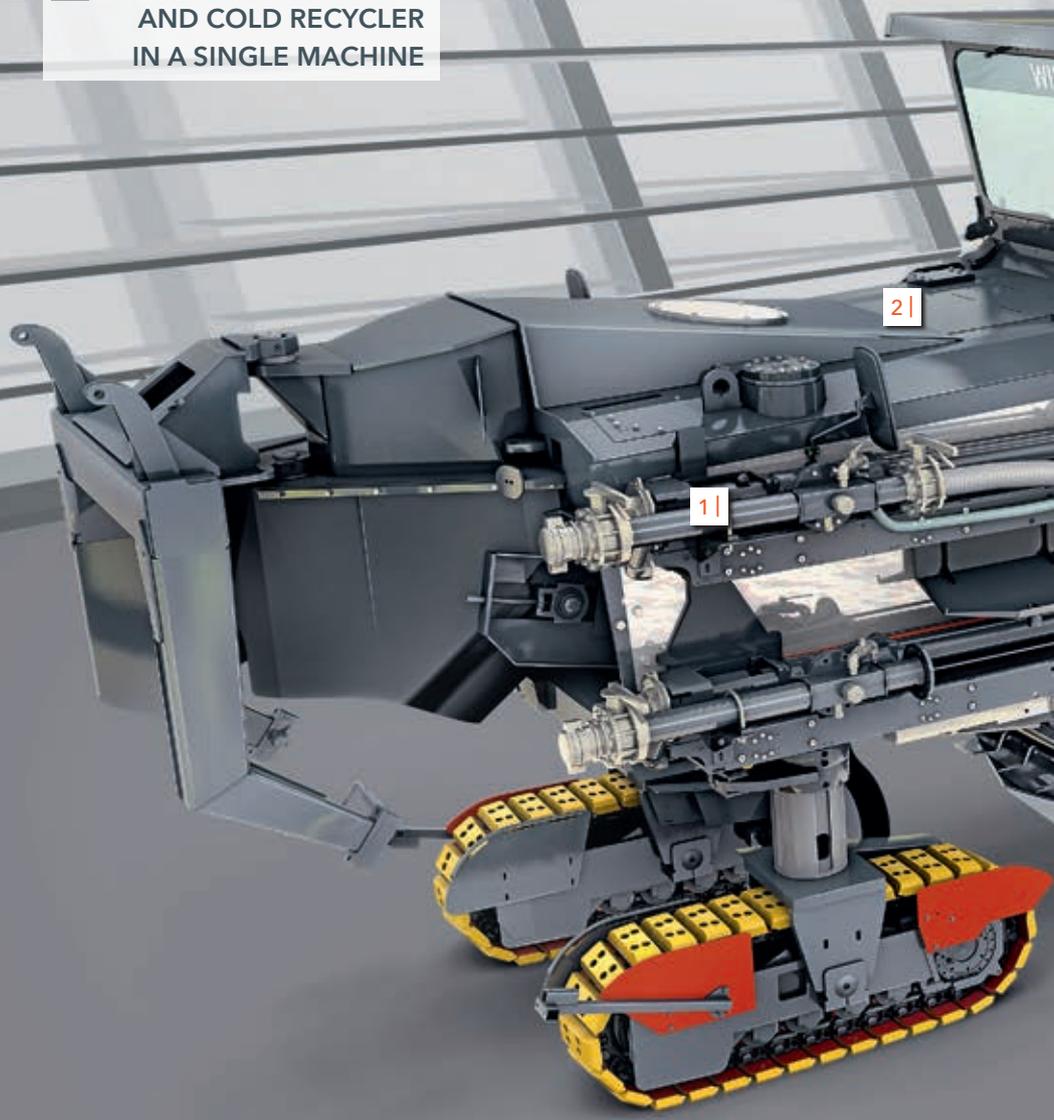
Outstanding features of the 2200 CR cold recycler

16
17

3 | HIGH-PRECISION
"LEVEL PRO" AUTOMATIC
LEVELLING SYSTEM

2 | COLD MILLING MACHINE
AND COLD RECYCLER
IN A SINGLE MACHINE

1 | HIGH-PRECISION
INJECTION SYSTEMS



DESIGNED WITH SHEER PRODUCTIVITY IN MIND

The powerful 2200 CR cold recycler offers a working width of 2.2 m and is the ideal candidate for the in-situ recycling of asphalt roads. Tremendous engine power and intelligent machine control guarantee high advance rates. Productivity is increased by the simple, self-explanatory operating concept paired with the "LEVEL PRO" automatic levelling system including milling depth sensor. The large water tank and the addition of water, water-cement slurry, bitumen emulsion or foamed bitumen in precisely metered quantities provide the recycler with superior flexibility. The heavy-duty milling and mixing rotor mixes construction materials in an efficient process to produce a homogeneous mix. In a final step, the integrated, continuously adjustable VÖGELE paving screed with tamper and spreading auger paves the material true to grade and slope. The 2200 CR can also be used as a high-performance cold milling machine.

4 | SIMPLE, INTUITIVE
OPERATING CONCEPT

5 | OUTSTANDING
ENGINE POWER



6 | STATE-OF-THE-ART
VÖGELE PAVING SCREED

7 | HEAVY-DUTY MILLING
ROTOR UNIT

8 | HIGH MILLING AND
MIXING PERFORMANCE



Operating principle of the 2200 CR cold recycler

PRODUCING BASE LAYERS OF HIGH QUALITY

Where specified, cement is pre-spread by a Streumaster binder spreader which is followed by water and binder tanker trucks. The cold recycler is equipped with injection systems which convey the liquid binding agents, via hose connections, from the tanker trucks coupled to the machine for precise injection into the mixing chamber. The robust milling and mixing rotor granulates the asphalt pavement in need of rehabilitation. The granulated material and binders are mixed in the machine's mixing chamber homogeneously in an in-situ process. The new, recycled mix is then

deposited between the rear track units via a material guide plate system.

The spreading auger spreads the material across the full working width where it is placed true to line and level and pre-compacted by the VÖGELE paving screed. After final compaction by HAMM rollers, the recycled layer forms a high-quality base for the new road.

The 2200 CR is capable of using not only the standard up-cut process (rotor operating against the direction of travel) for cold recycling but also the down-cut process (rotor operating in the direction of travel) developed by WIRTGEN.

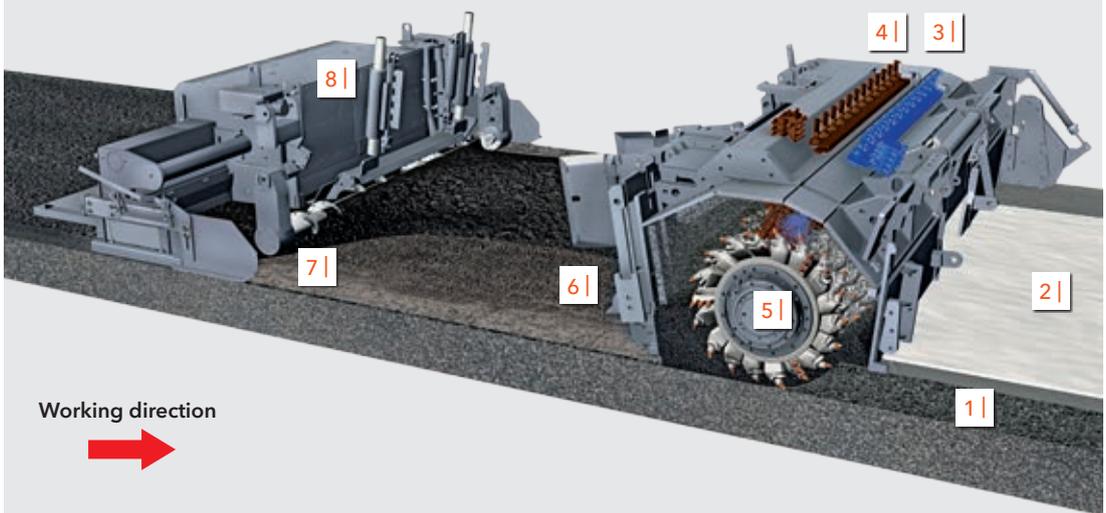


1 | UP-CUT PROCESS



2 |

- | | |
|--------------------------------------|---------------------------------|
| 1 Damaged asphalt layer | 5 Milling and mixing rotor |
| 2 Pre-spread cement | 6 Material guide plate system |
| 3 Injection bar for water | 7 Spreading auger |
| 4 Injection bar for binding agents | 8 Paving screed |



1 | When using the up-cut process, the milling and mixing rotor operates against the recycler's direction of travel.

2 | With conventional cold recycling, the recycled mix is deposited between the rear tracks and placed by the integrated paving screed.

Outstanding features of the 3800 CR "Rear Load" cold recycler

20
21

1 | COLD MILLING MACHINE
AND COLD RECYCLER IN
A SINGLE MACHINE

2 | HIGH-PRECISION
"LEVEL PRO" AUTOMATIC
LEVELLING SYSTEM

11 |

11 | FLEXIBLE
CONVEYOR SYSTEM

10 | ALL-TRACK DRIVE
ENSURING OPTIMUM
TRACTION

9 | HIGH-PRECISION
INJECTION SYSTEMS

Working direction



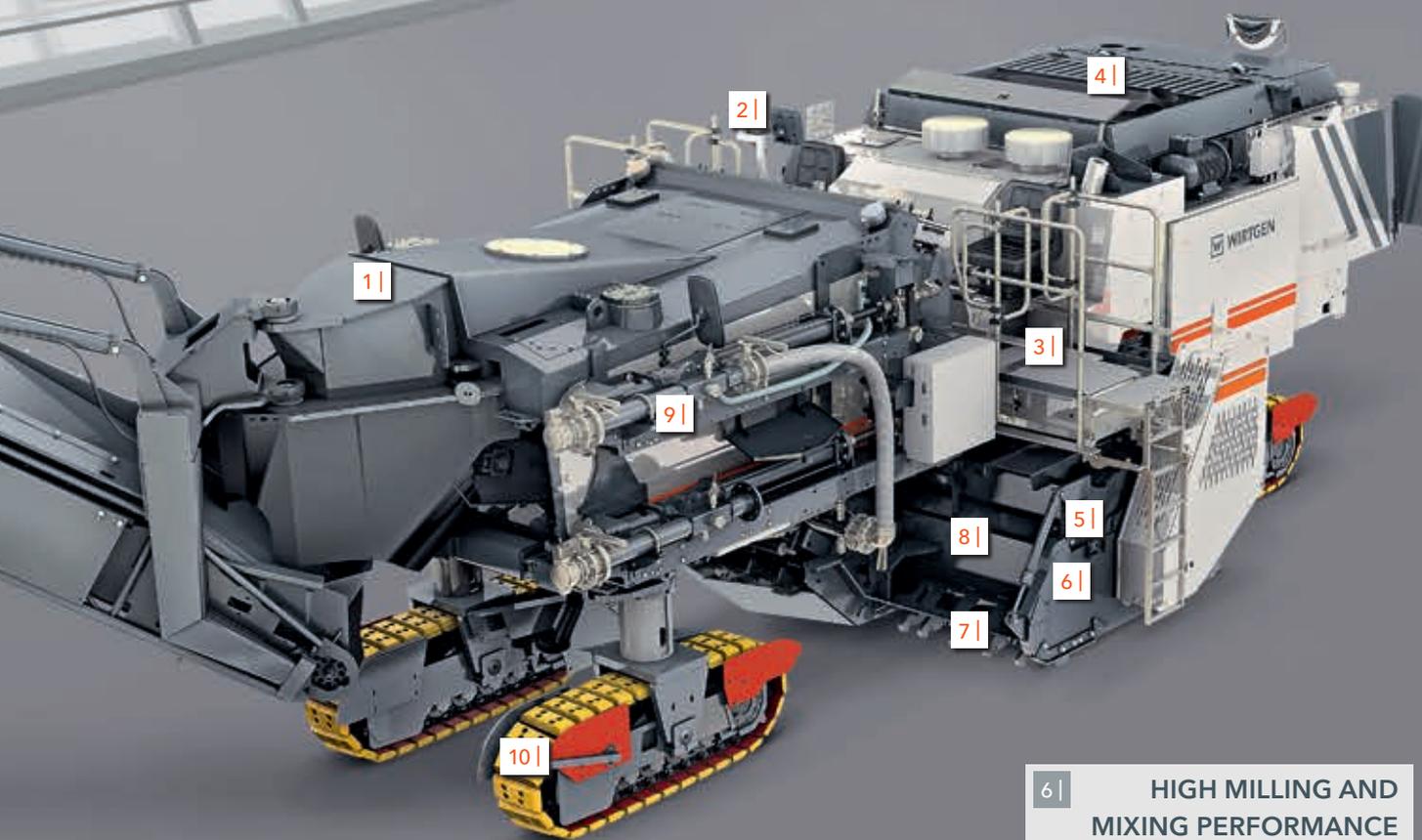
HIGH-QUALITY IN-SITU RECYCLING

The 3800 CR recycles 3.8 m wide traffic lanes seamlessly in a single pass. Tremendous engine power and intelligent machine control guarantee high advance rates. Flexible positioning of the control panels on the left or right side, as well as in both working directions, guarantees full visibility and ergonomic handling. The "LEVEL PRO" automatic levelling system including milling depth sensor ensures highly precise work results. The addition of water-cement slurry, bitumen emulsion or foamed bitumen in accurately metered quantities provides the recycler with superior flexibility. The robust milling and mixing rotor mixes the construction materials in an efficient process to produce a homogeneous mix, and can be operated in either up-cut or down-cut mode, as required. The hydraulically slewing and height-adjustable discharge conveyor ensures optimum material loading. In hydraulic folding conveyor design, it shortens the machine's transport length. The 3800 CR can also be used as a high-performance cold milling machine.

3 | CLEARLY STRUCTURED,
ERGONOMICALLY DESIGNED
OPERATOR'S PLATFORM

4 | OUTSTANDING
ENGINE POWER

5 | HEAVY-DUTY MILLING
ROTOR UNIT



6 | HIGH MILLING AND
MIXING PERFORMANCE

8 | RECYCLING TRAFFIC
LANES AT FULL WIDTH IN
A SINGLE PASS

7 | DIFFERENT WORKING
WIDTHS



Operating principle of the 3800 CR “Rear Load” cold recycler

COLD RECYCLING THE “REAR LOAD” WAY

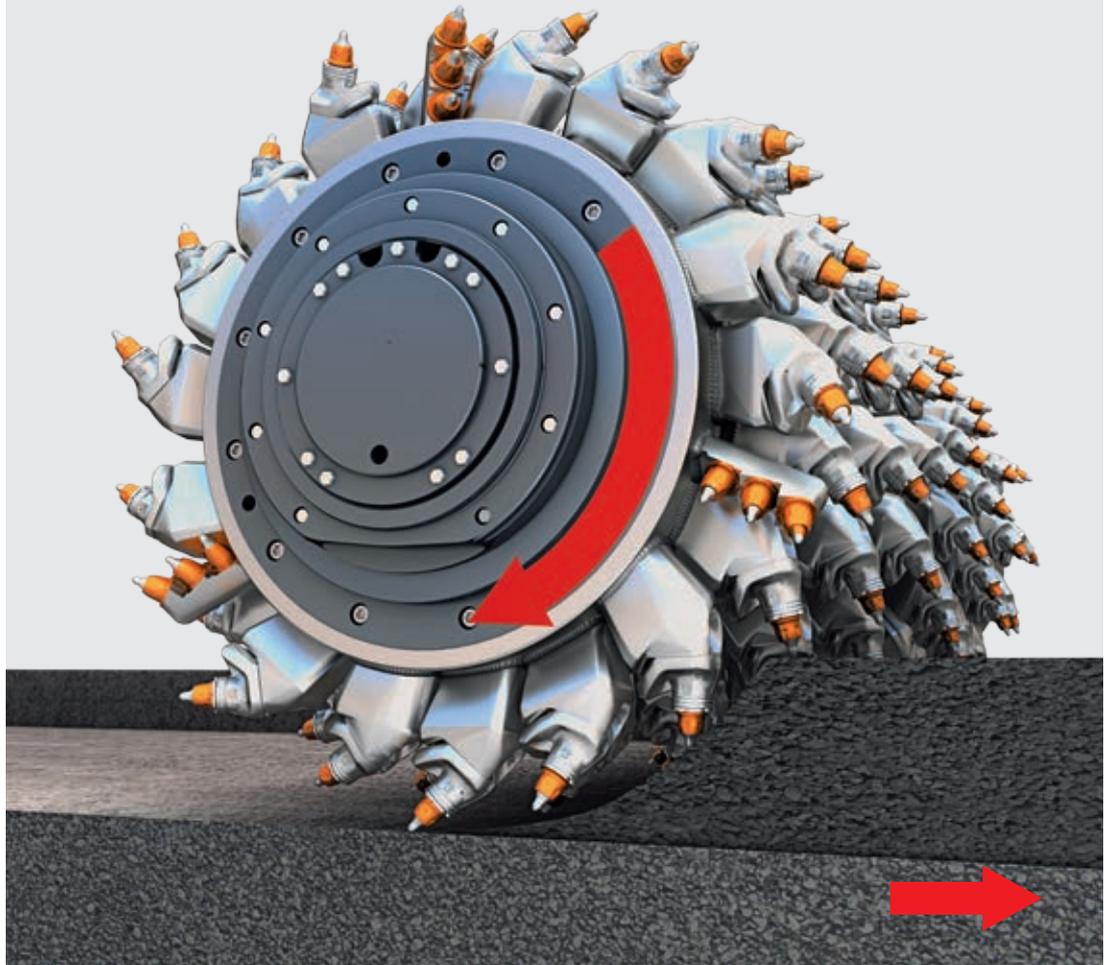
Where specified, cement is pre-spread by a Streumaster binder spreader which is followed by water and binder tanker trucks. The milling and mixing rotor granulates the asphalt layers. The pre-spread cement is mixed in at the same time while water and bitumen emulsion or foamed bitumen are injected into the mixing chamber via injection bars. The recycled material is picked up by the loading conveyor and transferred right into the material hopper of the VÖGELE asphalt paver which places it true to grade and slope. Compaction is then effected by HAMM rollers. Depending on the job to be completed, the

“Rear Load” cold recycler can be operated in opposite directions. When changing the machine’s working direction, the control panels are quite simply turned about 180° and attached on the opposite side of the spacious operator’s platform.

When equipped with a paving screed, the “Rear Load” cold recycler is capable of using not only the standard up-cut process for recycling but also the down-cut process developed by WIRTGEN. When using the down-cut process, the milling and mixing rotor operates in the recycler’s direction of travel.

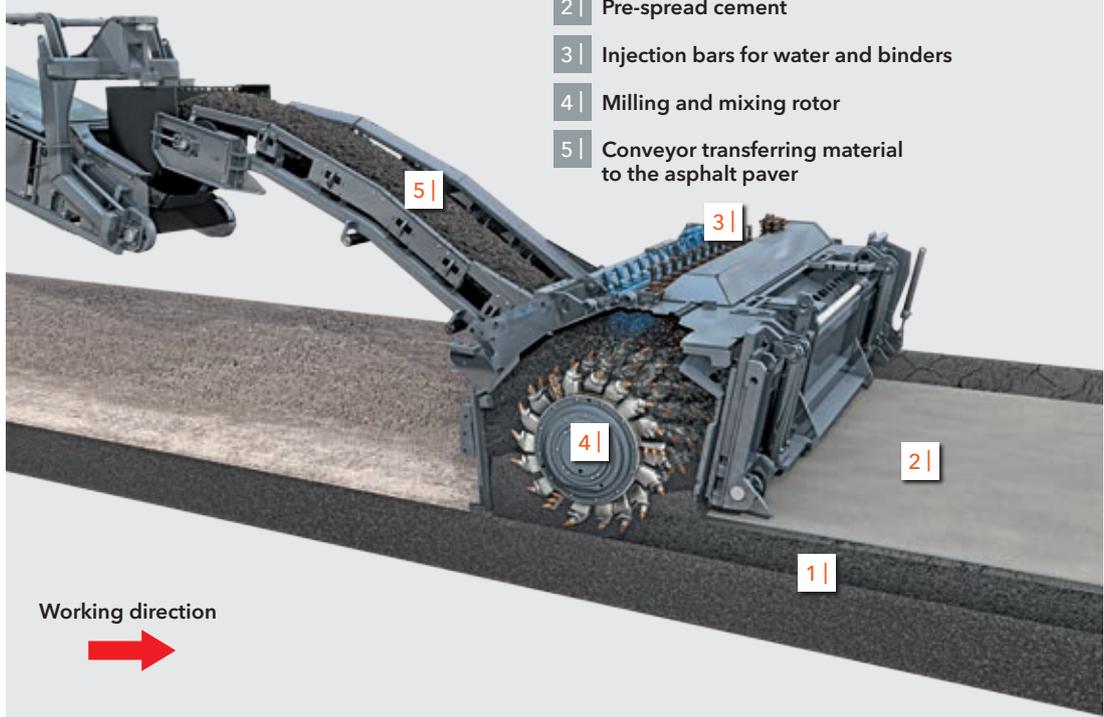


1 | DOWN-CUT PROCESS



2 |

- 1 | Damaged asphalt layer
- 2 | Pre-spread cement
- 3 | Injection bars for water and binders
- 4 | Milling and mixing rotor
- 5 | Conveyor transferring material to the asphalt paver



1 | When using the down-cut process, the milling and mixing rotor operates in the recycler's direction of travel.

2 | With "Rear Load" cold recycling, the recycler's integrated conveyor transfers the recycled mix to an asphalt paver for immediate placing.

Outstanding features of the KMA 220 / KMA 220i cold recycling mixing plant

1 |

POWERFUL
DIESEL ENGINE

2 |

LARGE WATER TANK

3 |

LARGE, TWIN-CHAMBER
PROPORTIONING HOPPER

1 |

2 |

10 |

EASE OF TRANSPORT



SHORT HAULAGE DISTANCES, BIG PERFORMANCE

Offering unrivalled mobility, functionality, versatility and productivity, the KMA 220/KMA 220i cold recycling mixing plant permits efficient operation in line with field requirements. The entire plant is mounted on a 3-axle flatbed truck to ensure ease of transport, enabling it to be set up in the vicinity of the construction site. Hydraulically driven components speed up and facilitate the plant's setup procedure. The powerful, sound-insulated diesel engine makes it independent from public power supply. Equipped with a heavy-duty twin-shaft continuous mixer, the KMA 220/KMA 220i produces more than 200 t/h of high-quality hydraulic or bituminous cold mix. Water supply during the recycling operation is ensured by a 4,500-litre water tank. The large twin-chamber proportioning hopper with hydraulically folding vibrating screens can be relied on to remove any oversize material. The addition of water, bitumen emulsion or foamed bitumen in accurately metered quantities provides the KMA 220/KMA 220i with superior flexibility. The conveyor is fitted with a cleaning brush. It features a wide slewing range enabling even long semitrailers to be loaded to full capacity. It features a wide slewing range enabling even long semitrailers to be loaded to full capacity.

4 |

**HIGH-PRECISION
INJECTION SYSTEMS**

5 |

**QUICK SETUP
PROCEDURE**

3 |



6 |

6 |

**SLEWING
CONVEYOR**

4 |

8 |

9 |

5 |

7 |

10 |

7 |

**AUGER CONVEYOR
WITH WEIGHING UNIT**

9 |

**HIGH MIXING
CAPACITY**

8 |

**HOPPER TAKE-OFF
CONVEYOR INCLUDING
MATERIAL WEIGHING**

Operating principle of the KMA 220/KMA 220i

ARRIVE, SET UP, GET STARTED

The KMA 220/KMA 220i is mounted on a flat-bed semitrailer and equipped with an independent power station. The mobile concept enables the plant to be relocated to different operating sites quickly and set up in next to no time.

1 | *Continuous production is suitable for subsequent stockpiling.*



Wheeled loaders empty all kinds of unbound source materials into the proportioning hopper via vibrating grids. Silos and/or tankers supply the plant with binding agents such as cement, bitumen emulsion or foamed bitumen. For high-precision metering, a microprocessor-controlled system monitors the addition of source materials and binding agents into the mixing chamber. A heavy-duty twin-shaft compulsory mixer produces a homogeneous construction material of high quality. In a final step, the recycled mix is simply discharged via the slewing belt conveyor which enables even long semitrailers to be loaded to full capacity.





2 |

2 | Stable panels below the proportioning hopper support the approach ramp.

3 | The recycled material is placed by a VÖGELE asphalt paver.



3 |



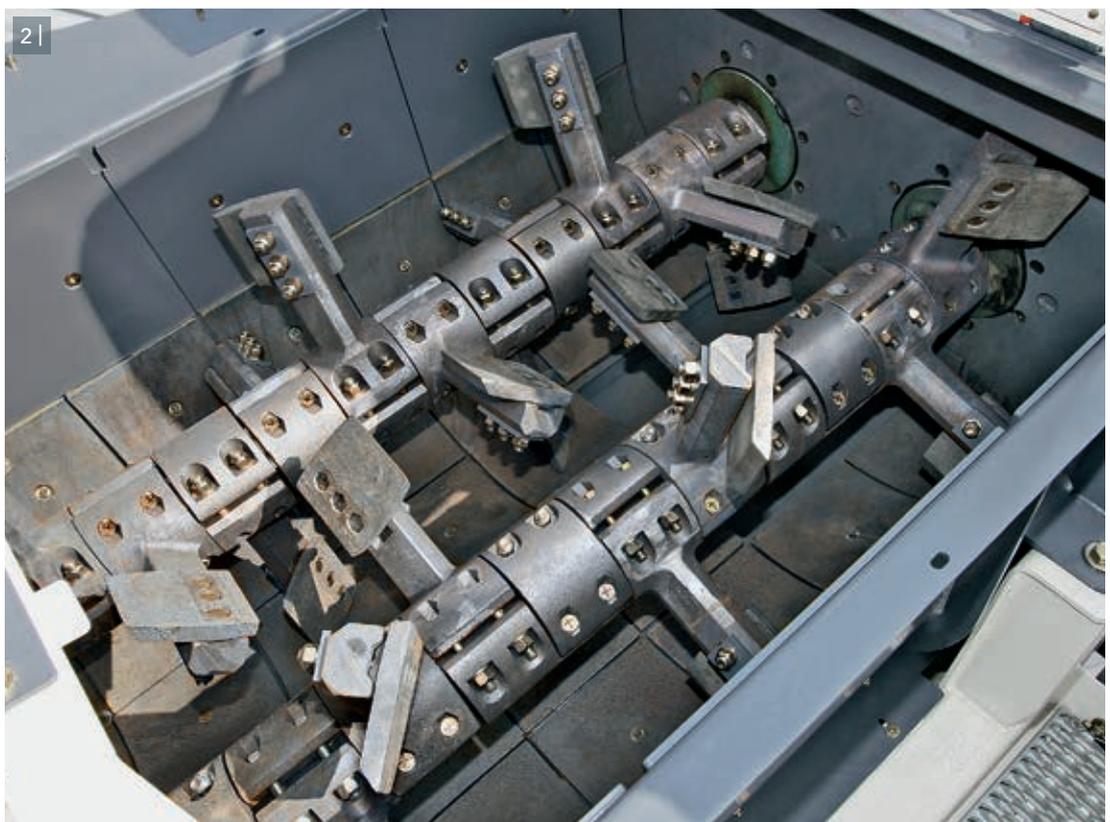
Heavy-duty milling and mixing rotors and powerful mixers

PROFESSIONAL EXPERTISE

Our wealth of experience in the multi-faceted field of cold milling, gained over several decades, enables us to provide our construction machines with tried-and-tested, highly efficient and leading-edge cutting technology. Paired with a powerful mechanical rotor drive, the optimized and highly precise tool arrangement on the milling and mixing rotor guarantees unrivalled milling and mixing performance - an essential prerequisite for fully homogeneous mixes. In addition, hard-wearing quick-change toolholder sys-

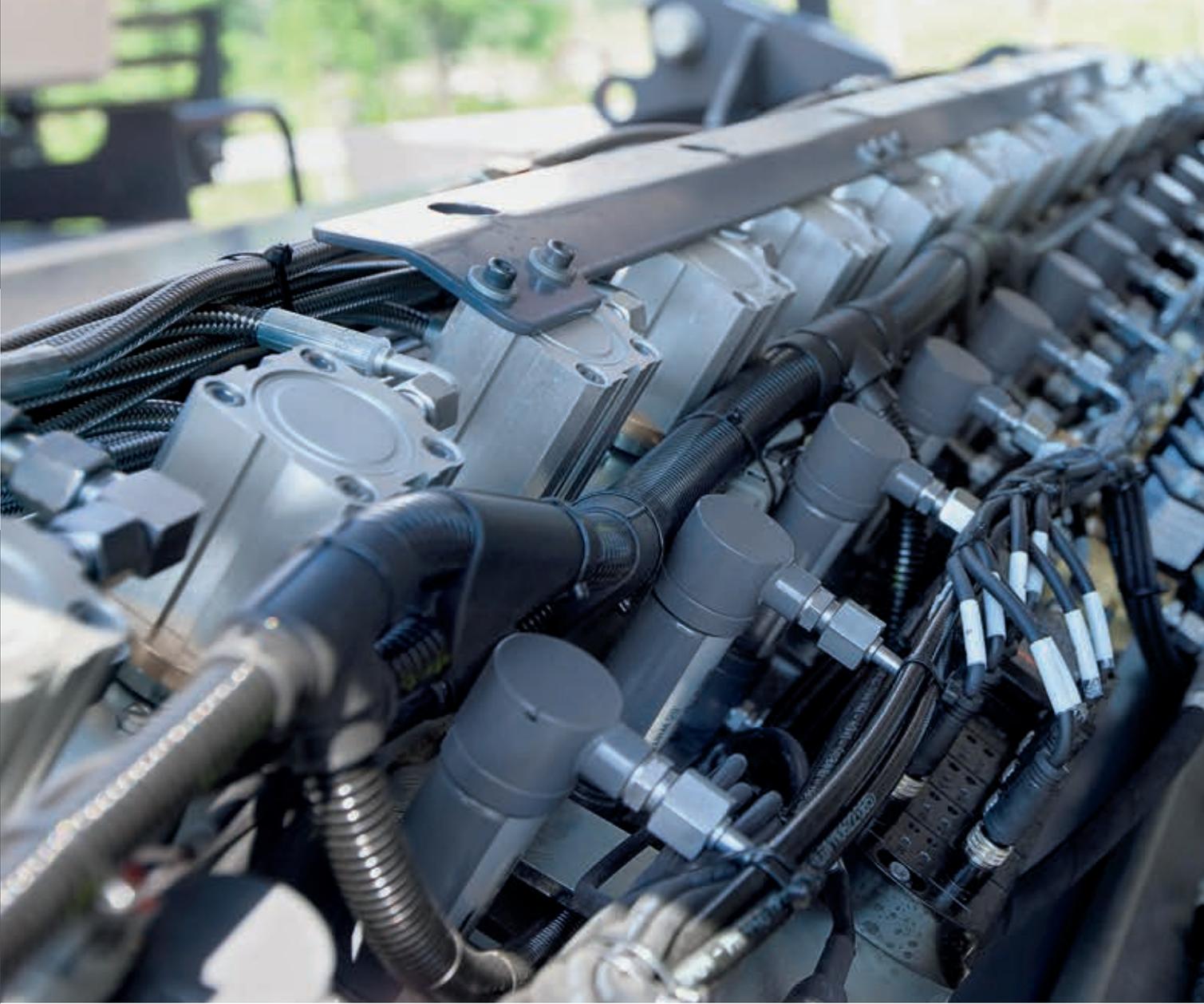
tems ensure optimal tool rotation, easy tool replacement and continuous operation for extended periods of time.

The mobile KMA 220/KMA 220i cold recycling mixing plant is equipped with a high-performance twin-shaft compulsory mixer to produce fully homogeneous recycled mixes. The mixer is fitted with mixing arms and mixing blades arranged in a specific pattern and manufactured from highly wear-resistant carbide metal. The mixing vessel is lined with special wear plates.



1 | HT22 - quick-change toolholder system of the latest generation.

2 | The twin-shaft compulsory mixer offers lots of power.



*Injection bars
ensure highly
accurate metering.*

High-precision injection systems

ADVANCED TECHNOLOGY COMES AS STANDARD

WIRTGEN makes exclusive use of high-tech components where the injection of binding agents in state-of-the-art cold recycling is concerned. For only the most precise mixtures of construction materials and binding agents enable the production of high-quality base layers that meet the required property specifications. Premium-class high-tech components here include the foamed bitumen injection system, eccentric pumps for the gentle feeding of bitumen emulsion, pulse-controlled

cyclic cleaning of the injection nozzles, flow meters with non-contact metering devices, microprocessor-controlled metering of all quantities to be added, as well as the comfortable operation of all system functions.

Foamed bitumen used for the construction of high-quality base layers is produced by adding precise quantities of water and compressed air to hot bitumen at a temperature of 175°C. The foamed bitumen quality can be checked immediately by means of the integrated test nozzle.



1 |



2 |



1 | The innovative foamed bitumen is produced by injecting air and water into hot bitumen.

2 | The machine operator is kept up-to-date on current parameters during the recycling operation.



High-performance paving screeds

PAVING TRUE TO GRADE AND SLOPE

The profile paving components used for our recyclers are the very best the market has to offer: professional, field-proven VÖGELE paving screeds are distinctive for their large paving width, compact design and long service life. Homogeneous material mixes are thus paved directly and seamlessly in pre-compacted form. In combination with state-of-the-art levelling technology, a high-quality base layer is thus produced true to grade and slope that only requires compacting by rollers.

Hydraulic adjustment of the paving screed makes easy work of paving around road fixtures. A spreading auger installed in front of the screed distributes the mix across the full working width. The centrally divided auger is operated in clockwise or counter-clockwise direction, the conveying speed of both sections being continuously adjustable.



1 | Flexible adjustment of the spreading auger.

2 | Paving around road fixtures poses no problem at all thanks to the hydraulically adjustable paving screed.

3 | Original VÖGELE paving screeds guarantee unmatched paving quality.



JUST THE RIGHT SOLUTION - WHATEVER THE JOB

WIRTGEN offers the most comprehensive product portfolio worldwide for cold recycling and soil stabilization. It comprises finely tiered model ranges which cover all performance classes and rise to every conceivable challenge. In addition, the machines offer an unparalleled range of equipment features enabling them to complete the job at hand in accordance with the specified application or tender specification. For example, all cold recyclers can be equipped with the innovative foamed bitumen technology.

Exclusively available from WIRTGEN for a wide range of applications: the machines of the WR model range can be used as both cold recyclers and high-performance soil stabilizers. WIRTGEN's unparalleled product portfolio for cold recycling and soil stabilization is completed by ancillary equipment offering a range of special features.

The biggest range of machines worldwide.



2200 CR



3800 CR



WR 200



WR 200i



WR 240



WR 240i



WR 250



WR 4200



WS 220



WS 250



KMA 220



KMA 220i



WM 1000



WLB 10 S



WLM 30



Series production of our machines ensures consistent quality.

Go-ahead for quality

GEARED FOR TOUGH EVERYDAY OPERATION

In Windhagen, location of our German main production plant and the birthplace of WIRTGEN cold recyclers and soil stabilizers, we create the foundations for a long and successful machine life. These foundations rest not only upon highly qualified employees but also upon consistently high production quality ensured by state-of-the-art, partially computer-controlled production methods. Special production facilities developed

in-house, as well as company-owned, production-related know-how make the machines fit for tough everyday operation on the job site. In a final stage, all machines are subjected to stringent quality controls with comprehensive test journeys and endurance tests to ensure their top quality and workmanship.

The complex processes involved in the manufacture of milling and mixing rotors, injection systems and control technology are part of WIRTGEN's core expertise.



1 | Our experience in process-engineering is incorporated into the manufacturing process.

2 + 3 | Outstanding core skills and qualified staff are the cornerstones of high-quality manufacturing.



Providing active support on site quickly and around the globe - our service engineers.

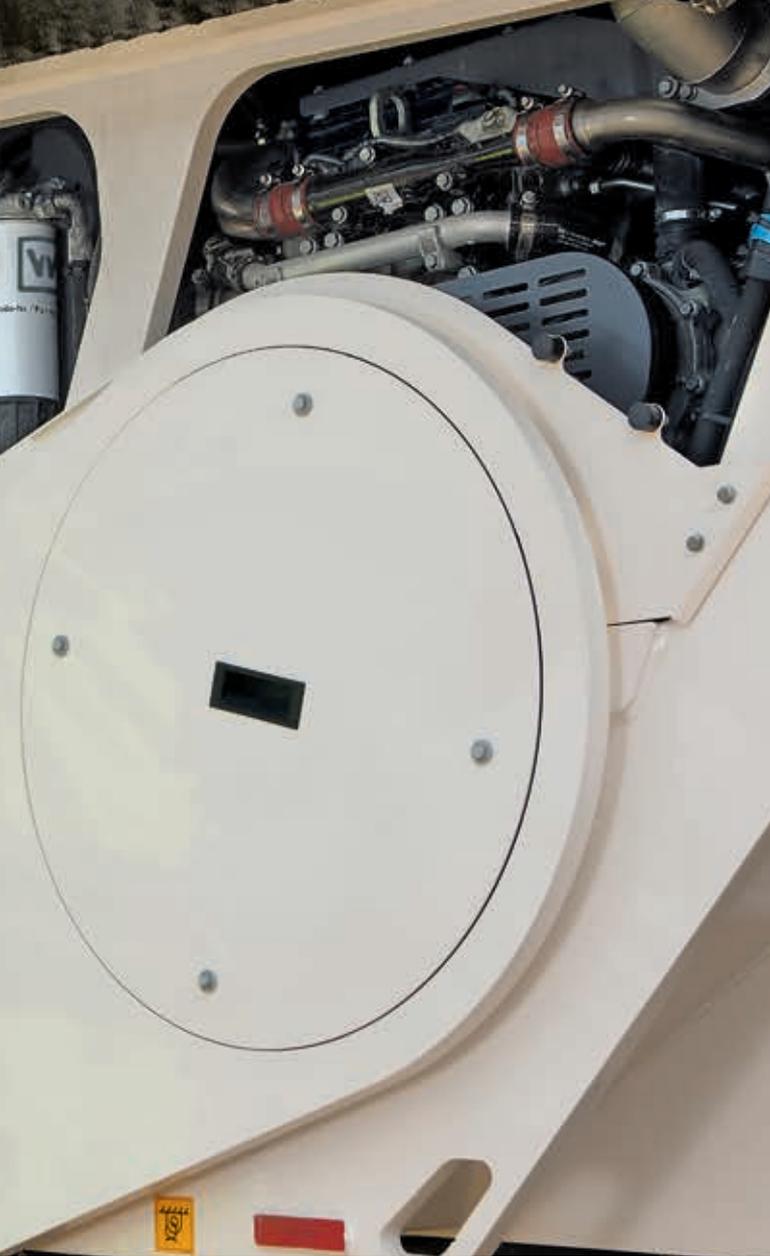
Worldwide service from a single source

FULL-SCALE CONSULTING SERVICES

Fully-owned sales and service companies are reliable partners to our customers around the globe, offering supreme customer service. Highly qualified service engineers ensure the machines' operational safety, arriving on location within the shortest possible time - on all continents, at any time of day or night. The employees at our subsidiary companies attend regular trainings to maintain a high level of specialized technical knowledge. It goes without saying that our full service concept includes the immediate availability of our high-quality original spare parts on a global scale.

Consulting services offered at specific project and target group levels are yet another strong point which always guarantees a made-to-measure, cost-effective recipe for success.

The performance portfolio of our WITOS telematics system ranges from controlling the machines during operation all the way to supporting maintenance and diagnostic procedures. WITOS therefore makes a vital contribution to improving their efficiency further in day-to-day operation.



1 | In training courses, WIRTGEN training pros impart lots of specialized knowledge on everything to do with the machines, technologies and processes.

2 | State-of-the-art diagnostic systems provide clearly structured information on operational parameters and maintenance details.

3 | Operating personnel around the globe is trained and supported in the field by experienced specialist staff.

A proven track record on all continents

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AN ECONOMICALLY EFFICIENT PROCESS ON THE PATH TO GLOBAL SUCCESS

The breathtaking development in cold recycling and soil stabilization began in Western Europe. Countries like England, Italy and the Netherlands were the first to use the technology, which until that time was largely unknown. Very soon, however, countries on other continents recognized the unique advantages of the method. In the mid 1990s, when the innovative foamed bitumen was integrated into the process, this sparked a boom which is still continuing. Today, cold recycling is practiced with great success in innumerable countries the world over, and in every climatic zone.





OPTIMUM USE OF RESOURCES

Economy is not contradictory to ecology. We see this confirmed not only by our environmentally friendly machine technology, but also by the methods of soil stabilization and cold recycling, both of which are gentle on natural resources. They make use of existing materials, requiring only small quantities of additives or binding agents to be added. The reclaimed, bound and unbound road construction materials are fully reused. Fewer truck transports having a negative impact on the environment are required in comparison with conventional soil exchange. In addition, the fast-paced method minimizes space requirements and environmentally harmful disruptions to traffic. To put it briefly: our environmentally friendly method is convincing a steadily increasing number of customers in all parts of the world.

COLD RECYCLING / SOIL STABILIZATION

- > shortens construction times.
- > is a resource-efficient process.
- > dispenses with the need to create stockpiles.
- > minimizes environmentally harmful disruptions to traffic.
- > reduces the number of truck transports to the construction site.
- > reduces binder requirements.
- > significantly reduces emission and in particular CO₂ levels.

**Committed to protecting
the environment at all levels.**





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