





WIRTGEN RECYCLING EQUIPMENT

Recycler/ Stabilizer/ Mixer (WR)



The WR series of machines are used for three primary jobs. Mixing, Pulverizing or stabilizing a layer of material. They come in 3 sizes WR200 (429 HP) WR240 (600 HP) and WR250 (755 HP). All three versions have 7'10" wide drum and can cut asphalt and be equipped with pump systems to inject binders or water into the mixing housing.





The CR380 (1039 HP) is primarily a cold recycler built to cut pavement while injecting and mixing in binders and then convey the mixture directly into a following paver to repave. The machine can be used for CIR, FDR and milling processes. It is usually equipped with pump systems for dosing binders and compaction water into the mixture.



KMA 240 Mobile Mixing Plant

The KMA 240 is mobile mixing plant capable of being transported to a location and set up in less than an hour to produce material at the rate of 265 tons / hour. The plant comes equipped with three different binder systems to dose into two different aggregates. The plant can be feed from a city water supply, tanker truck or and onboard 1100-gallon tank. The cement can be feed from a vertical silo or with individual bags. It can use emulsion or foamed bitumen. The final material can be loaded directly into a truck or stockpiled.



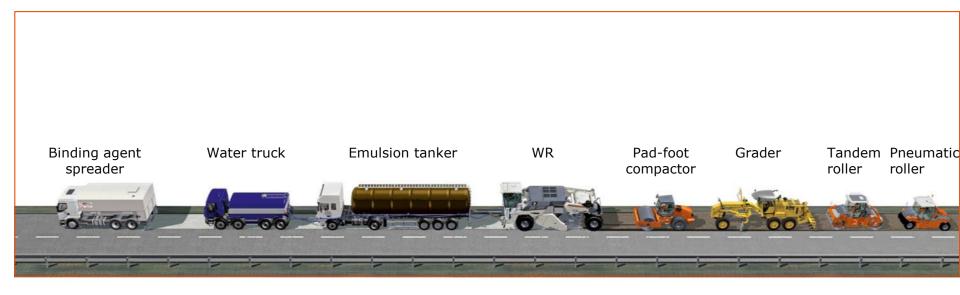
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ROAD RECYCLING USING FULL DEPTH RECLAMATION (FDR)



Recycling with Foamed or Emulsified Bitumen (BSM)



FDR With Cement



BSM recycling





- Multiple passes per lane
- Blade can segregate material while putting on grade
- Maintaining consistent moisture content can be a challenge
- Safety issues with constant forward/reverse action of all equipment

Paver Laid FDR







Necessary Equipment Innovations:

- Recycler with:
 - Depth ability up to 12"
 - Injection system for small or large volumes of material
- Paver with:
 - Larger tunnels and augers
 - Ability to lay mats up to 15" in depth
 - Screeds with high density compaction

Paver-Laid FDR





Paver-Laid FDR











Pros:

- Full lane width in one pass
- All one direction except
 for rollers
- Safer for workers and traveling public
- Less segregation = higher quality
- Shorter schedules means less disruption

Cons:

- Recycled layer will likely need to be trimmed
- Equipment investment

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COLD IN PLACE RECYCLING (CIR)

WIRTGEN



Cold In-Place Recycling







COLD CENTRAL PLANT RECYCLING (CCPR)



Cold Central Plant Recycling

Another Tool in the Tool Box

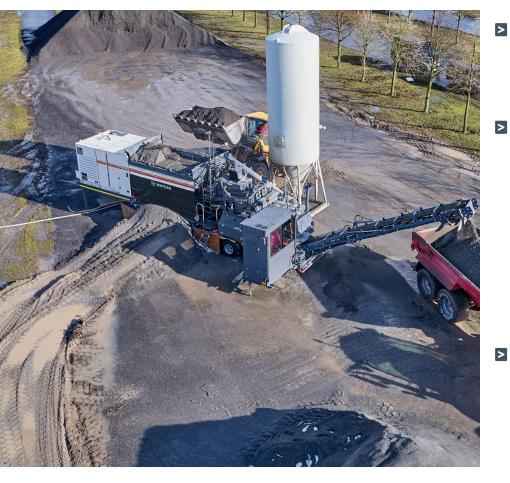
Allows road owner to:

- Stretch funding or # of miles
- Address the cause of failure not symptom
- Re-utilize the good material
- Utilize jobsite material OR <u>Stockpile RAP</u>

Contractors can use their existing equipment Pavers, rollers, tandems

Flexible Production





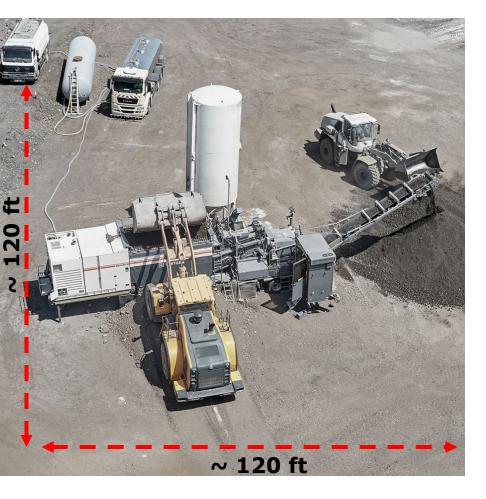
- The **mobile design** of the cold recycling mixing plant allows the machine to be transported directly to the job site, saving both time and money
- The KMA 240 (i) is capable of processing a wide variety of base materials, such as:
 - recycled construction materials
 - > milled asphalt material
 - demolished concrete
 - > virgin road construction materials

Binding agents such as:

- > Cement,
- Bitumen emulsion
- > foamed bitumen

One-of-a-Kind Mobility and Flexibility





Small footprint

D flexible connection options

- > Water
- > Emulsion
- > Bitumen

D Cement / Lime connection

- > Via a stationary silo on the left or right or
- > Fed by hand

Stand-alone job site operation

- > The plant's own diesel engine
- independent on the public power grid
- > guarantees an exceptionally high daily output
- operated extremely efficiently for up to two days on single tank of fuel.

Product Positioning KMA 240i





- The mix is ideally suited for any type of construction project, e.g.:
 - > Cement-treated base (CTB)
 - Long-lasting bituminous base layers
 - > Road and path construction
 - > Parking lots
 - Industrial areas
- The ability to produce RCC or Roller-Compacted Concrete with up to 16% cement content
- The ability to produce cold mixes and patch mix with precise dosing accuracy.

Animation Material Flow





Compaction





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JOB EXAMPLES

WIRTGEN

Ashley County Arkansas CR 92



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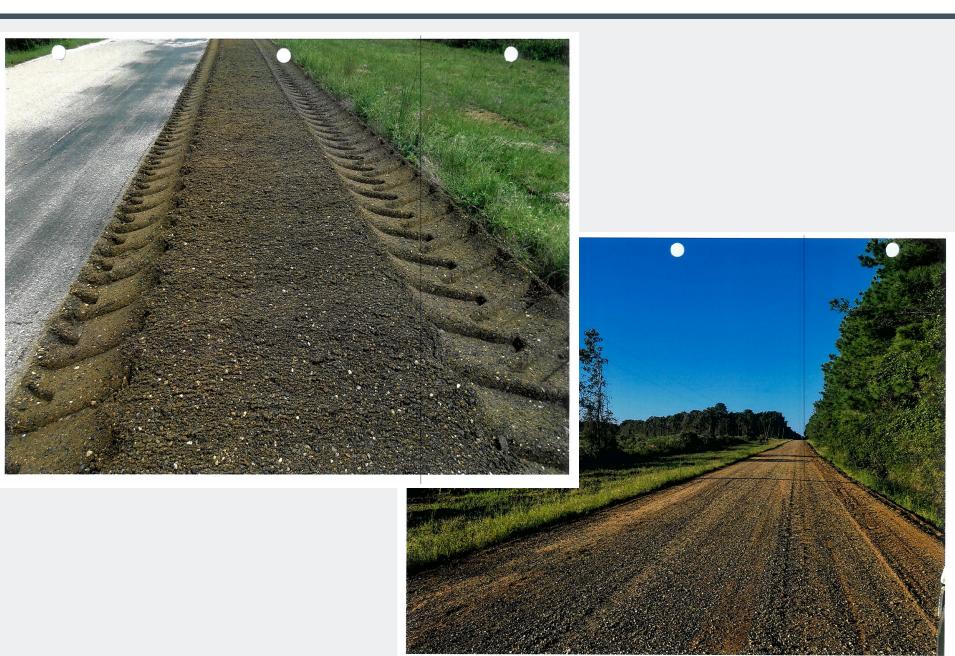
Ashley County Arkansas CR 92



Company Use

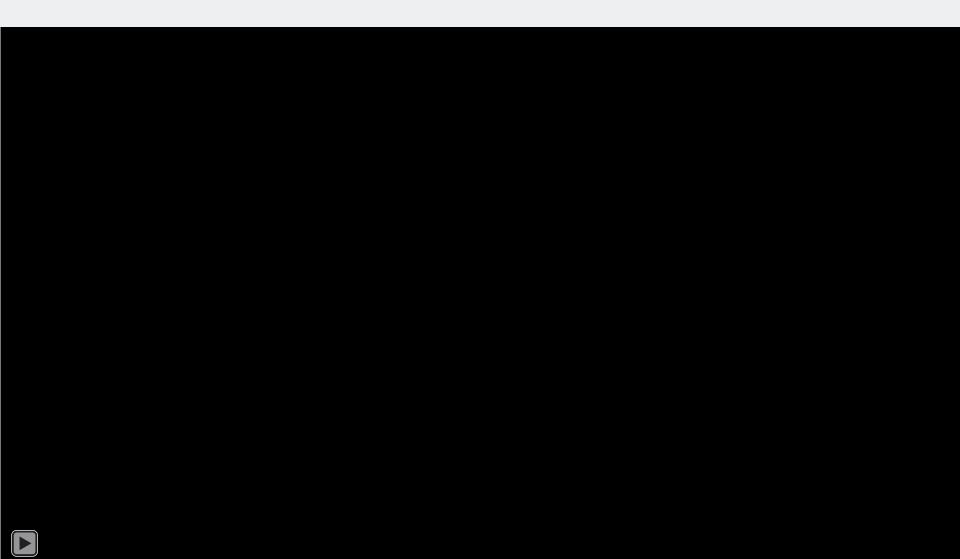


Ashley County Arkansas CR 92











Virginia I-81/I-64 Interstate Projects



CIR – New Concept New Jersey







Construction April

August



Rt. 17 on James River Bridge, VA Beach



W WIRTGEN

FM541 near San Antonio

