



Dust-free addition of cement
Slurry mixer WM 1000



Dust clouds are a thing of the past!

The mobile slurry mixer blends cement and water in an enclosed system and then pumps the slurry into the mixing chamber of the recycler via a hose line.



Even the most sophisticated cement spreaders cannot solve the problem of ecologically harmful dust clouds when spreading cement over large areas.



Although the process of mechanically spreading cement or lime during soil stabilization or cold recycling has constantly improved with time, particularly with regard to accurate metering of the quantities applied, one problem has always remained: the powdery carpet of cement or lime is whirled up by the merest breeze.

That is not only a waste of valuable material, but is also harmful to the environment and poses an unacceptable danger to passing traffic, in addition to the damage caused.

The alternative: Applying a pre-mixed slurry of cement and water

// The mobile slurry mixer WM 1000 not only eliminates these problems entirely, but also allows the cement to be added in a manner compatible with modern process engineering standards, including any ecologically relevant characteristics as well as precise metering. Moreover, the mixer is exceedingly simple to operate so that even unskilled personnel can produce top-quality results. The slurry mixer is designed as a container body for mounting on 5-axle heavy-duty trailers and includes generously dimensioned tanks for water and cement. A microprocessor controls the delivery of material to the mixer in accordance with the pre-determined ratio.

The slurry of water and cement is then pumped into the mixer of the downstream recycler or stabilizer in accordance with the latter's rate of advance. For transport the unit is simply attached to the back of a conventional truck and towed to the site. While construction work is in progress, the WM 1000 is connected to the recycler and pushed or pulled by it.



Everything under control: well-organized control cabinet and microprocessor control panel which can also be operated from the recycler via an extension.

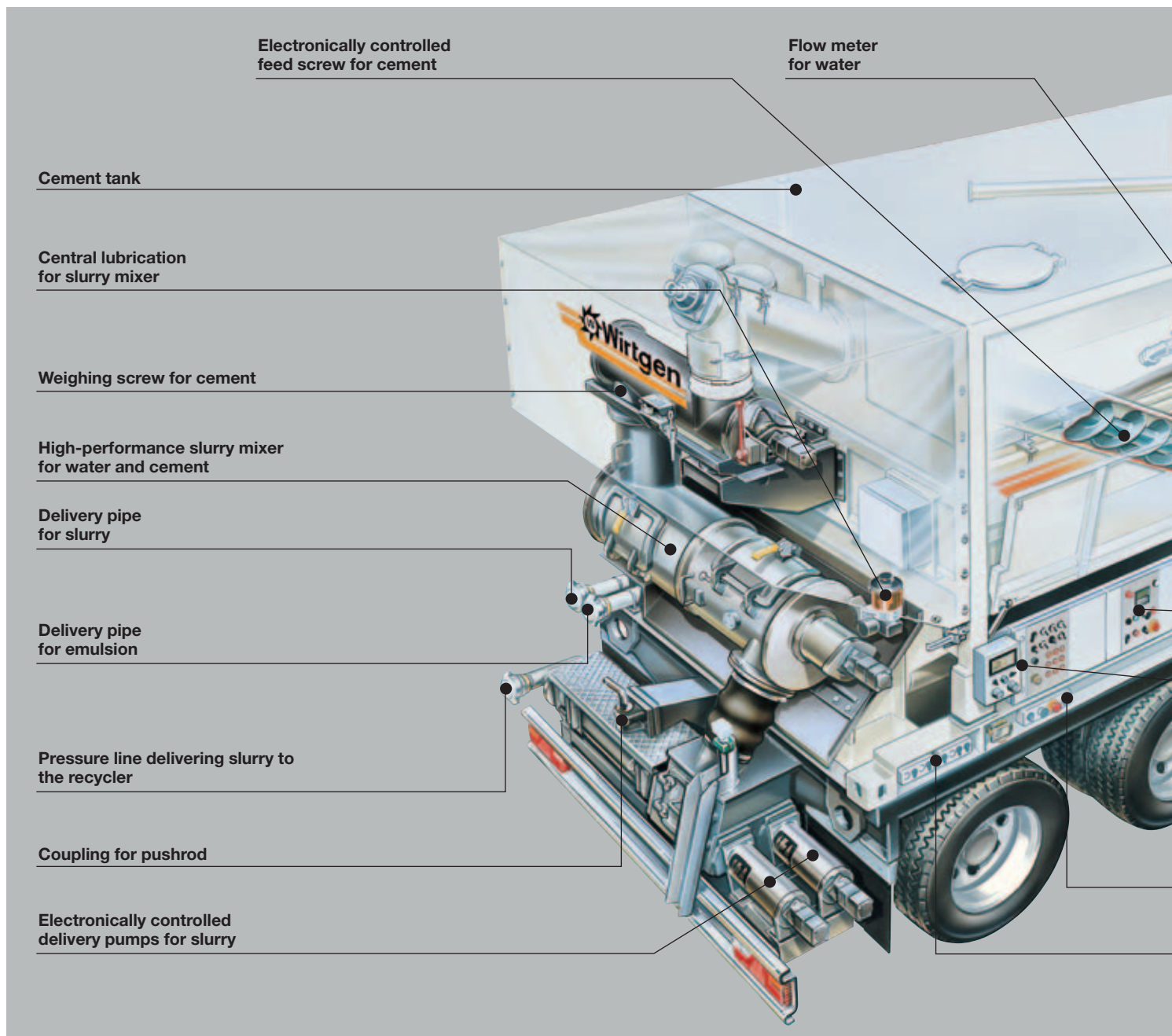


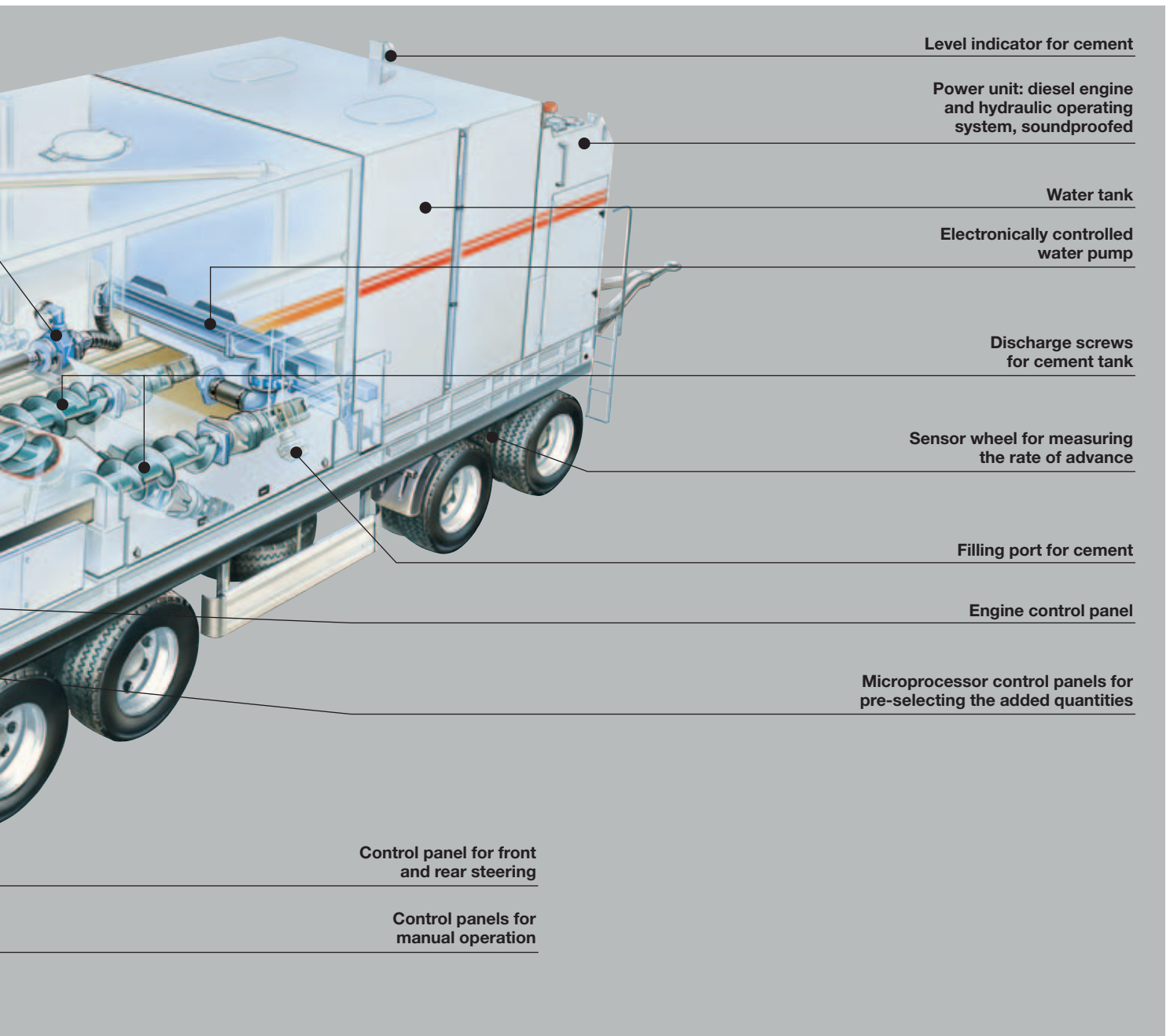
The high-performance mixer is mounted crosswise and features large cleaning ports. It produces a homogeneous slurry of water and cement added in precisely metered quantities.

In operation: the recycler WR 2500 pushes the slurry mixer WM 1000 via a pushrod. The mixing capacity of the plant is adapted to the output of the large recyclers. Large water and cement tanks reduce the number of refilling operations.



The distinctive mechanical design of the WM 1000 and its practical features





Level indicator for cement

Power unit: diesel engine and hydraulic operating system, soundproofed

Water tank

Electronically controlled water pump

Discharge screws for cement tank

Sensor wheel for measuring the rate of advance

Filling port for cement

Engine control panel

Microprocessor control panels for pre-selecting the added quantities

Control panel for front and rear steering

Control panels for manual operation

Highly valued by contractors: A whole series of practical advantages

Not dependent on weather conditions

Work can continue without restriction even when the wind gets up: unlike the carpet of cement which is whirled up by the wind, the cement remains in an enclosed system.

Not even rain can stop the work.

Precise metering

In the WM 1000, the amount of cement added is determined by a microprocessor controller which continuously registers the weight and adjusts the quantity, instead of being randomly measured by hand as when using the conventional method.

More efficiently blending into recycling material

Liquids can be blended into a mixture of materials more efficiently than powders.

A better distribution is consequently obtained by mixing the cement with water to form a slurry before it is added to the recycling material.

Continuous operation

Connecting the WM 1000 with its large storage tanks is more advantageous in practice than using a separate spreader of limited capacity with frequent interruptions as material is transferred from the delivery vehicle. This is ultimately reflected in the higher area performance.

No dust to obstruct traffic

One of the essential advantages of cold recycling is that traffic can be diverted past the travelling road works on a single lane. This advantage may be severely curtailed when spreading powdered cement. This does not apply when using the WM 1000.

Not harmful to the environment

Buildings and plants frequently suffer when powdered cement is spread over large areas, thus giving rise to complaints from nearby residents and public authorities.

The environment does not suffer if the cement is processed in an enclosed system.

Few personnel

Operating staff for the separate spreader are not required.

The WM 1000 is supervised by the operating staff of the recycling train.

Fewer idle times for delivery vehicles

The smaller capacity of a separate cement spreader means that the delivery vehicles have to wait on site until they have been emptied completely.

The capacity of the WM 1000, on the other hand, is sufficient to allow the vehicles to be emptied completely in a single operation.

Serving an
ecologically aware
construction
industry



Slurry mixer WM 1000, coupled to the Wirtgen cold recycler WR 4200, rehabilitating a thoroughfare with foamed bitumen and cement.

Slurry mixer WM 1000, coupled to the Wirtgen cold recycler 2200 CR, rehabilitating a country road.

Slurry mixers WM 1000, coupled to Wirtgen recyclers WR 2500 S, producing hydraulically bound base layers.





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