



The powerful unit for effective soil stabilization
Tractor-towed stabilizer
WS 2200 and WS 2500



Boost up your tractor to become a stabilizing pro



Getting you started successfully in soil stabilization

/// The future belongs to soil stabilization. This technology converts instable ground into valuable construction material with minimum effort, saving the cost of an expensive soil exchange. The Wirtgen tractor-towed stabilizers WS 2200 and WS 2500 enable you to convert your tractor

into a perfect soil stabilizer with only a few simple flicks of the wrist. The compact unit impresses with its simple concept and highly economical operation. Hence, the tractor-towed stabilizer not only produces stable ground of top quality but also lays the foundation to your success.



◀ Tractor-towed stabilizer in efficient operation

▼ Loading is completed quickly, and off it goes to the next job site

Flexibility re-invented



- Due to the low capital expenditure involved, the combination of attachment unit and tractor is ideally suited in particular for small to medium-sized construction projects.
- The milling and mixing rotor thoroughly mixes the soil with a binding agent. It guarantees powerful action that is reflected in high daily production rates.

- Its exceptional manoeuvrability, all-terrain mobility and flexibility ensure that the machine makes fast headway on the construction site.
- The unit's low weight and compact dimensions facilitate transport from one job site to the next.

Ready to get started in no time at all



How to simply convert a tractor into a modern soil stabilizer

/// It happens every day: The tractor, used as a towing unit just a minute ago, is to be converted into a soil stabilizer as quickly as possible. This requirement necessitates a simple but practical coupling system for the milling drum unit: Wirtgen's tractor-towed stabilizer is geared to

flexible and effective operation and offers the ideal solution. It is attached to the tractor easily by way of a standardized three-point mounting, at the same time using the tractor's power take-off to drive the milling and mixing rotor.



The simple mounting principle

◀ Connect via three-point mounting ...

... attach power take-off, and here goes! ▼



- ▶ Mounting and removing the soil stabilizer is straightforward and can be carried out quickly with standard tools.
- ▶ The tractor is quickly available for other jobs again so that optimum utilization is ensured.
- ▶ The three-point mounting is of standardized design and complies with common international standards.
- ▶ Two additional double-acting rear valves are used for the operating hydraulics.

Difficult ground conditions – no stumbling block for the “WS”



▲ Their design prevents the side plates from being pulled through the soil, sapping power needlessly

The hydraulically adjustable side plate ►



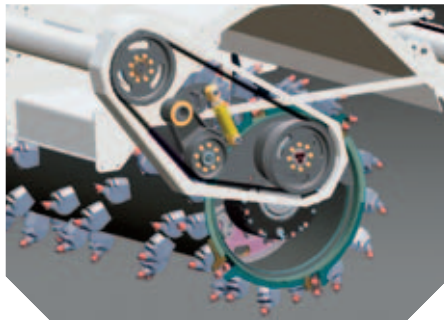
It feels right at home on difficult ground

/// The success of our tractor-towed stabilizers is guaranteed by the fact that they have sufficient power to thoroughly mix even the heaviest soils. This is ensured by the powerful, mechanically driven milling and mixing rotor. It homogenizes the material effectively across the entire

working width and, if required, uniformly mixes in binding agents like lime or cement. The height-adjustable, flexible side plates have additionally been designed in such a way that they glide on the surface with only little effort instead of having to be pulled through the soil.

Eccentric gearbox for
even deeper milling depth ▶

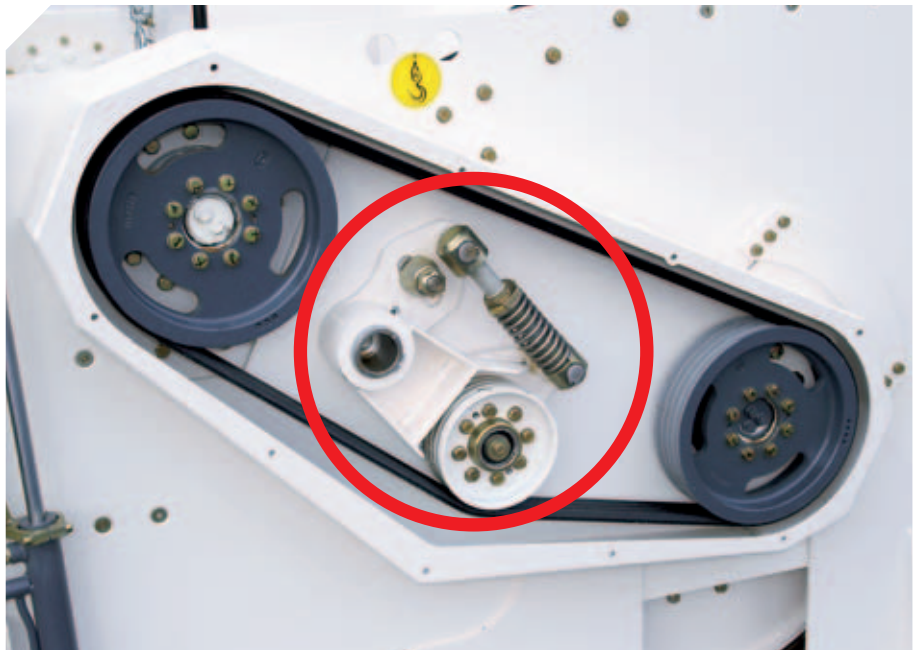
▼ The rotor penetrates the soil
at the required depth



Going smoothly



Maintenance-free
automatic belt tensioner ▶



- ▶ The design of the Wirtgen stabilizer enables the milling and mixing rotor to penetrate the soil right down to the desired working depth.
- ▶ Side plates gliding on the surface ensure that 100% of the available power can be used for driving the milling and mixing rotor.

- ▶ Dual mechanical belt drives utilize the full engine power to achieve high efficiency.
- ▶ The stabilizer's ingenious drive concept has the positive and economical side effect of reducing the tractor's fuel consumption.

Lots of know-how in the quick-change toolholder system HT11

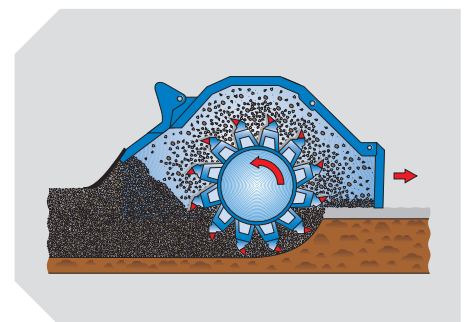
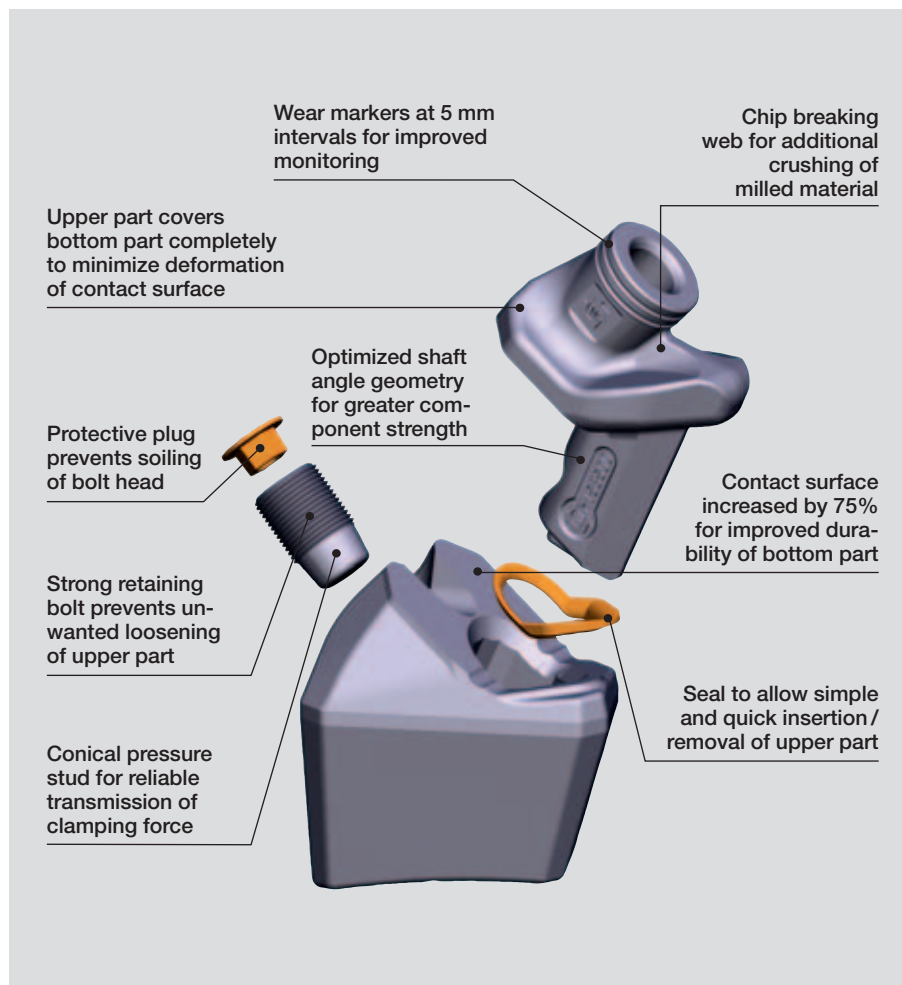


Mature technology ensures excellent mixing results

/// The milling and mixing rotor – the heart of the tractor-towed stabilizer – can optionally also be used with the tried and tested quick-change toolholder system HT11. With this system, Wirtgen builds on its experience of many years in cutting technology. The precisely defined, exact

arrangement of the cutting tools on the drum ensures smooth machine behaviour and top milling and mixing results. The homogeneously mixed material is deposited as a uniform layer behind the stabilizer.

An all-rounder suitable even for tough jobs



The soil is thoroughly mixed with the binding agent in the mixing chamber

The HT11 system offers a wealth of impressive application benefits

- ▮ The toolholders are fitted on high webs, providing sufficient space for the material to be mixed.
- ▮ The toolholder system operates with minimum material stress, a feature which increases the useful life and profitability of the entire machine.
- ▮ The toolholders can be replaced quickly and easily. Time-consuming efforts like welding and grinding are not required.
- ▮ The milling rotor provides good access and generous space for the replacement of tools.

Finishing with a perfect surface



Valuable soil meeting highest demands

// An excellent finish of the subgrade level produced is yet another vital criterion for soil stabilization to score perfect marks. Here again, our soil stabilizer offers first-class results. The homogeneously mixed soil is levelled across the full width by the permanently pre-tensioned scraper blade,

thus delivering a smooth and perfectly even surface. The next work step is carried out by suitable rollers and consists in compacting the pre-levelled ground.

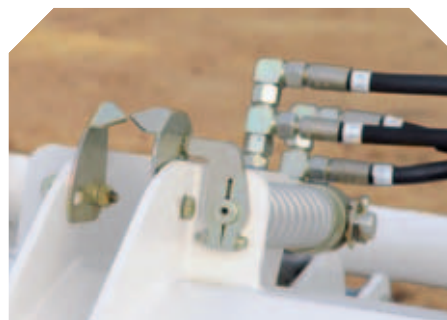


Perfect finish



▲ Hydraulically adjustable rear drum flap

This indicator setting signifies optimum contact pressure ▶



Final compaction of the soil is carried out by rollers ▲

Hydraulic cylinders and springs ensure that the scraper blade has optimum contact pressure.

The stabilized soil meets the desired quality requirements after compaction.

Even heavy soils are stabilized effortlessly across the full working width and to the full working depth of up to 500 mm.

Soil improvement – producing stable ground



The most economical method of producing foundation soil

Whether heavy and coarse-grained or viscous and insufficiently stabilized subgrade material: The tractor-towed stabilizer dependably converts it into soil highly suitable for placing and compacting. Extremely coarse-grained material is crushed by the milling drum in the

mixing chamber. Soft soil is covered with lime by means of, for instance, a spreading vehicle prior to being processed. The milling drum then mixes both until a uniform mixture has been produced, removing the excess humidity from the soil.



The simple quality leap



Improved soil, ▲
cut by cut

◀ Soil improvement produces soil highly suitable for placing

- ▶ In earthwork construction, soil improvement pays off in the construction of, for instance, dams or embankments, backfilling or site transport roads.
- ▶ Soil improvement with the addition of water has proved of great worth in particular in landfills with clayey subsoils.

- ▶ Soils processed with suitable binding agents are practically unsusceptible to wetness and offer optimum conditions for further compaction.
- ▶ The bearing capacity of large surfaces is improved quickly and reliably with only little effort.

Soil stabilization – a foundation to build on



Binding agent produces stable ground

/// Soil stabilization with the addition of binding agents like cement is a patent remedy for increasing the long-term resistance against strains resulting from traffic and weather conditions. The cement is pre-spread by

means of, for instance, a spreading vehicle and is then thoroughly mixed with the soil by the milling and mixing rotor. Soil stabilization produces a soil of permanently high bearing capacity and stability.



A foundation for all types of loads



The work is completed in next to no time ▲
The mixture of soil and binding agent produces a homogeneous base layer ◀

- Soils stabilized with the addition of binding agents are characterized by high resistance to frost.
- Soil stabilization guarantees a high degree of volume stability.

- Stabilized surfaces are ideally suited for the construction of parking lots, roads, sports grounds, track beds, harbour docks, airfields and industrial facilities.



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