

Screening, soil stabilization and liquid soil production with one machine

Screening: The 3-fraction starscreen can screen into 3 fractions. With grizzly or grizzlyscreen a 4th fraction is possible.



The starscreen can also screen cohesive soil in particular with a high throughput. The coarse fractions fall off in front of the machine. Medium- and finegrain fall to the rear and sides.



After a short modification, the 3-fraction starscreen can be used as a screening and mixing machine and then can be used for the production of stabilized soil and liquid soil. For this purpose, the fine screen must be replaced by the mixing unit.

Starscreen as well as screening and mixing machine can be used from 700 m² area.

Soil stabilization: The excavated soil is filled into the hopper by excavator and screened with the starscreen at 60 mm or finer. The screened soil falls loosened onto the underbelt, is weighed by belt weigher and conveyed to the mixing unit. According to the belt weigher, the binder is fed from the mixing unit. It is mixed with the screened and loosened soil (0-60 mm) by a hammer roller, and any remaining agglomerates are broken up in the process. Due to the exact mixing with chalk, cement ... only as much compound is mixed into the soil as it needs for the specific application (usually about 1-3%). Less is sustainable and can also be carried out on site in accordance with the BBodSchV. In the production of stabilized soil, an output of up to 250 tons per hour is possible.

The screening and mixing machine generates compressed air with which the binder is conveyed from a separate storage silo to the mixing unit of the screening and mixing machine.



Liquid soil: When the soil-compound mixture is delivered, an appropriate amount of water is pumped into the truck mixer. The liquid soil is produced in batches and documented with a delivery paper. It is mixed in the truck mixer for 10-90 minutes and then poured.