



**SWEEPING AND SAND WATERING SYSTEM
KES VARIOKON**

SWEEPING AND SAND WATERING SYSTEM KES VARIOKON **Multi Functional - Cost Savings up to 60% !**

The Cost Saving Machine. With this innovative universal equipment system everything can be done efficiently, exactly and neatly from joint filling and water flushing up to pavement cleaning. Costly individual devices for various applications are from now on needless.

Modular Construction

► This design allows an individual configuration of equipment depending on the requirements. Basis equipment is the sweeping Machine KM-uni. It has top performance in filling joints with chipping or sand as well as in cleaning surfaces. For water flushing the KM-uni is completed with the Water Flushing Attachment ESV. In case water is not available from the hydrant via a water hose, a water tank can be quickly added to the base unit.

Perfect Joint Filling!

► The KES meets highest quality requirements. This is a decisive factor for the longevity of any pavement.

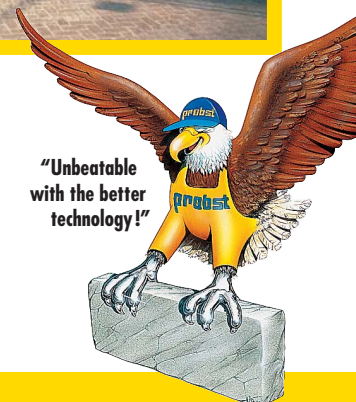


Joint Filling of Eco Pavement with Chipping

► Optimal filling due to special brushes with spiral design. Their height can be continuously adjusted which avoids any wasting of chipping.

Cleaning of Surfaces

► Sweepings and excessive jointing material is swept in a large volume collecting box which can be emptied hydraulically.



Sweeping and Sand Watering System KES VARIOKON

High Profitability · Multipurpose Use – Even as Surface Cleaner



Instead of using the water tank, water can be directly supplied via a hose coupling. Because of a turnable rod the water hose is always outside of the machine's cruising range.



Durable Joint Filling

The speed of the special brushes as well as the water amount can be controlled individually. Filling width: 1.6 m.



One Run Over Fills Joints by 90 %.

▶ The new technology enables perfect, complete filling down to the bottom part of the joint.

Joint Filling Machine Variably Adjustable

▶ depending on the paving surface, the joints and the filling material.

High Rationalisation Gain

▶ Cost savings up to 60 % are possible if sand is flushed into the joints with water (starting from 4,000 sqm paved area per year). The costs per square meter decrease enormously the higher the surface area is. With the KES VARIOKON one employee can fill comfortably from the driver's seat the joints of up to 250 sqm pavement per hour. Whereas manual work can do about 30 sqm per hour only. The costs for manual work per square meter are constantly and clearly above 1 Euro in which the additional cost time factor is not included. With mechanical joint filling by water through the KES VARIOKON the cost steeply decline the higher the surface performance per year is: For 5,000 sqm surface performance they amount to EUR 0.52 sqm. Spread on a surface performance of 10,000 sqm the costs per square meter drop to only EUR 0.32 sqm. If one is filling joints of 20,000 sqm pavement per year the costs are mere EUR 0.22 per sqm. Thereby the wheel loader costs are already taken into account.

Easy Handling

▶ Absolute 1-man equipment. The operator of the wheel loader can do all work steps on his own.

First Class Quality

▶ Experience shows that the KES VARIOKON in practice does such a dense joint filling that the pavement is permanently filled. This stands in contrary to manual joint filling by adding water where the filling sets by 50 % within the first 6 months.

No Additional Reworking !

By the way the KES VARIOKON also fills the joints between slabs quickly and completely.

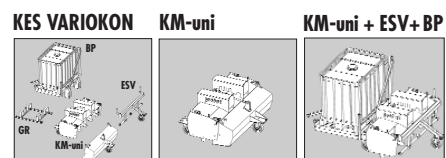
Easy Moving of Machine

▶ The over sized wheels guarantee smooth running without twisting, even on ecological pavements with their wide joints.

Fast and Facile Fixing of the KES VARIOKON Modules

▶ to every wheel loader, paver installation machine, etc. with hydraulic drive.

Modular Construction Stands for Flexibility and High Machine Efficiency



Type	Description	Dead Weight (kg) (lbs)
KM-uni	Sweeping machine, working width 1.6 m	270 (595)
ESV	Water flushing attachment	38 (84)
BP	Container attachment including water tank	150 (331)
AH-KM	Suspension for use at VM	5 (11)
GR	Frame for use at VM	15 (33)
WAE	Water automatic element	2 (4)
KES VARIOKON	Consisting of KM-uni, ESV, BP	463 (1,020)

Further information and brochures can be obtained from your competent construction machinery dealer or directly from us.