

Attachment for excavator

e.p.m.

ALLU



ALLU

ALLU e.p.m Powder Spreader
Easy and cost effective
soil improvement
and soil stabilisation

Easy and cost effective soil improvement and soil stabilization



ALLU e.p.m Powder Spreader is a new innovative container to spray the binding agent onto the soil in stabilisation projects e.g. by backfilling pipeline trenches or in road construction. The advantage of e.p.m process is, that the binding agent can be spread directly to the right place and the volume required can be adapted to different soil conditions.

ALLU e.p.m Powder Spreader can be easily fitted to an excavator or loader. The hydraulic driven pump adjust accurately the volume. ALLU e.p.m Powder Spreader can hold 1 m³ of powder at one time and then refilled from a larger storage bin.

With soil improvement you can

- reduce the water content of soil
- improve compactibility of soil
- reduce the plasticity of soil
- increase bearing capacity of soil

Example of cost calculation

Traditional soil exchange

Costs for transport and deposit	11,45 €/m ³
Replacement material and transport	12,00 €/m ³
Total costs of soil exchange	23,45 €/m³

Soil improvement with the ALLU e.p.m system

Need of binding agent 30,00 kg/m ³	2,70 €/m ³
Use of excavator, ALLU e.p.m and ALLU SM production appr. 35 m ³ /hour	3,00 €/m ³
Total costs of soil improvement	5,70 €/m³

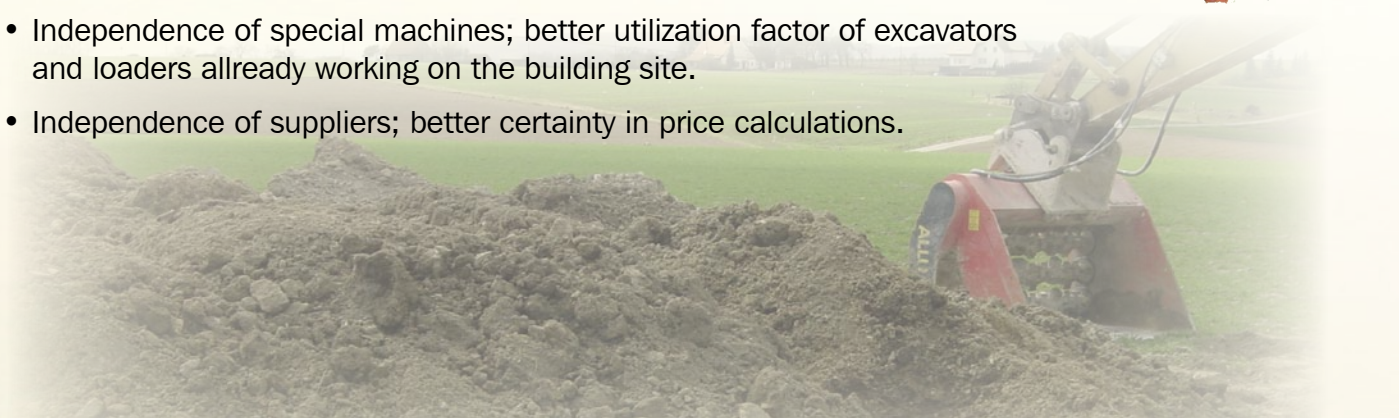
Total cost savings with ALLU e.p.m system 17,75 €/m³

ALLU e.p.m technical specification

Volume	Weight kg Without plate	Hydr. Recommendation	Power max kg/min	Power min kg/min	Recommended Carrier machine Tons
1,00m³	650	25-40	250	40	loaders 5-12 excavators 10-30

Advantages for contractor when using ALLU e.p.m

- Savings in transport and dumping costs.
- Savings in exchange material costs.
- Higher certainty in price calculations because of some easily misjudged factors in a calculation (like diversions, road blocks, closing of dump yard nearby) become no longer necessary.
- Independence of increasing dumping costs and environmental requirements.
- Reduced risk factor of weather conditions thanks to short set-up times and fast processing. Difficulties to supply and transport exchange material to the building site in case of bad weather will be eliminated.
- Independence of special machines; better utilization factor of excavators and loaders already working on the building site.
- Independence of suppliers; better certainty in price calculations.



ALLU e.p.m Powder Spreader together with ALLU SM Screener Crusher and ALLU VP compacting plate



Huge cost savings and an easy treatment method can be reached with help of the new technology for soil processing.



Working principle

The excavated soil is laid alongside the pipeline trench onto suitable place. Then the e.p.m container is mounted onto the excavator and the binding agent is spread on the pile.

After spreading of the binding agent, the ALLU e.p.m can

be detached and the ALLU SM screener crusher can be mounted onto the same excavator. The ALLU SM takes in the binding agent together with the soil, mixes and directly fills back the pipeline. If the material contains stones, they are screened

out by the ALLU bucket. After screening, non crushed stones are put aside and can be used later for basement improvement or fed into a crusher.

Then follows the compression with a hydraulic driven ALLU VP compacting plate.

ALLU products for soil improvement



ALLU e.p.m - Powder Spreader - spraying of binding agent



ALLU Screener Crusher - mixing/screening of soil and binding agent



ALLU PM Power Mix - mixing soil and binding agent in mass stabilization



ALLU AS Windrow turner - mixing soil and binding agent in large volumes

ALLU products for soil improvement



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