ALLU
One Step Ahead

Easy and cost effective soil improvement and soil stabilisation

ALLU e.p.m
Powder Spreader

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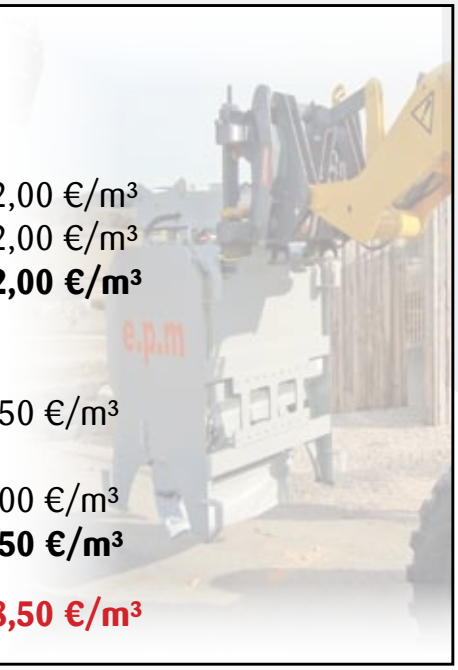
ALLU e.p.m Powder Spreader is a new innovative container to spray the binding agent onto the soil in stabilisation projects e.g. by backfilling pipeline trenches or in road construction. The advantage of e.p.m process is, that the binding agent can be spread directly to the right place and the volume 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 1,40m³ of powder at one time and then refilled from a larger storage bin.

With soil improvement you can

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

Example of cost calculation



Traditional soil exchange	
Costs for transport and deposit	12,00 €/m³
Replacement material and transport	12,00 €/m³
Total costs of soil exchange	**22,00 €/m³**
Soil improvement with the ALLU e.p.m system	
Need of binding agent 20,00 kg/m³	2,50 €/m³
Use of excavator, ALLU e.p.m and ALLU Screener Crusher production appr. 35 m³/hour	3,00 €/m³
Total costs of soil improvement	**5,50 €/m³**
Total cost savings with ALLU e.p.m system	**18,50 €/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
1,40m3	720	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 allready working on the building site
- Independence of suppliers; better certainty in price calculations.

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 Screener Crusher can be mounted onto the same excavator. The ALLU 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 DOES IT ALL...

ALLU products for soil improvement

ALLU® Screener Crusher
Screening, crushing, mixing, aerating, and loading in one step operation

ALLU® Stabilisation System
Mixing soil and binding agent in mass stabilisation

ALLU® Compacting Plate
High power compacting plates for demanding job sites

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For more information go to **www.allu.net**