

Versatility and Flexibility

ALLU PM Power Mix can process different materials to a depth of 5 meters depending on the reach of the excavator and the quality of the material. The ALLU PM Power Mix is an attachment and therefore the excavator may also be used in other jobs on site. The ALLU PM Power Mix is a perfect tool for mixing small or large amounts of materials. The binder is fed with pressurized air through pipe directly to the right spots near the drums, so the amount of binder can vary from a few percent up to tens of percent and the mixing result stays consistent.

The ALLU Power Mix has a rigid welded steel frame and all the wear parts are made of wear resistant steel and are replaceable. The hydraulic radial piston motor gets its power from the excavator. It rotates the drums through shaft and gears. The need for maintenance has been minimized.

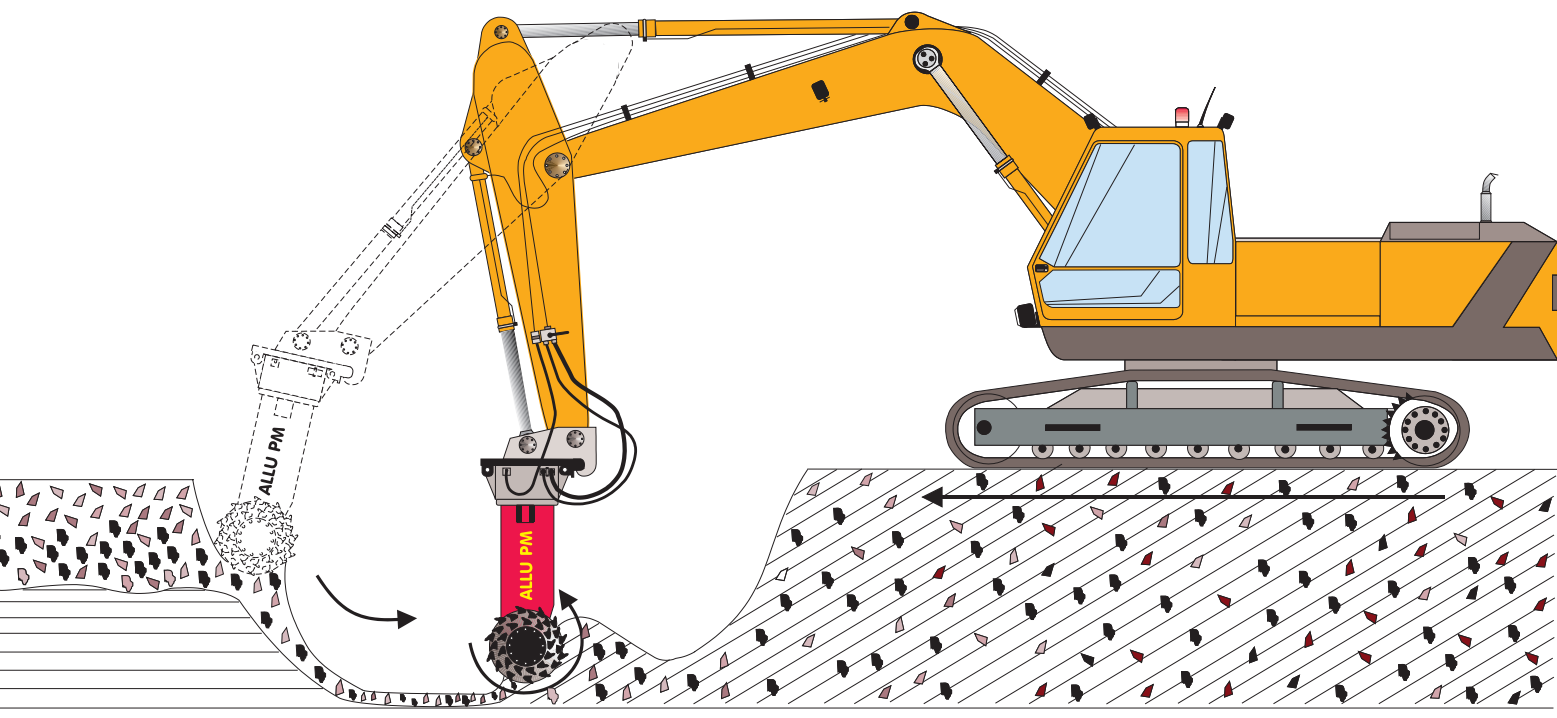
The ALLU PM Power Mix can easily be mounted on an excavator with pin mounting or with quick hitch adapter plate.

Typical ALLU PM Power Mix applications

1. Stabilization work of road and ground construction
 - Foundations for industrial buildings and bridges
 - Yard, parking place, sports ground and storage construction sites
 - Reduction of earth pressure
 - Stabilization of very soft soils for tunnel boring
 - Road, street and railway construction sites
 - Foundations for pools, landfill areas etc
 - Cable/pipe channel construction sites
 - Ground water protection layers and protection layers under the water
2. Handling of contaminated soil
 - Isolation of contaminated soils
 - Neutralization of toxic waste
3. Mixing of different materials
 - Recycling of the industrial side products
 - Fixation of the liquid waste(s)

Benefits of soil stabilization

- Soft sites can be made usable
- Change of unsuitable soils is not required
- Import of new materials is greatly reduced
- Treated material can be placed inside structures
- Site traffic and impact on the environment is reduced



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ALLU PM Power Mix;
A versatile accessory for
excavators. For effective mixing
and blending of different

THE ALLU PM POWER MIX; AN EFFECTIVE ATTACHMENT FOR EXCAVATORS

What is ALLU PM Power Mix?

The ALLU PM Power Mix is a new invention, which offers a very profitable and cost-effective working method to increase the strength and dynamic stiffness of soft soil, to improve the deformation properties of the soft soil and to remediate contaminated soil.

As a working method this is called **soil stabilization**.

The ALLU PM Power Mix is able to handle effectively very difficult and very different kinds of materials: such as clay in different forms, peat, sludge, mud and contaminated soil. The mixing effectiveness is based on the intelligent horizontal positioning of the drums and unique construction of the auger. The drums move and mix material in a very controlled way in all three different directions simultaneously.

The ALLU PM Power Mix working method is patented throughout the world.

Cost Savings

When ALLU PM Power Mix is attached on an excavator the combination converts to an easily movable and effective mixing plant. By stabilizing the area the costs are much lower than the cost of doing the work with the traditional methods like exchange of mass.

The accessibility and stabilizing capability of the ALLU PM Power Mix is clearly recognized in an application where the ALLU PM Power Mix easily succeeded to stabilize the wet swamp into a parking place, where even walking was not earlier possible. The method can also be used on clay or sandy areas, on isolating the contaminated soil or in neutralizing toxic wastes.



Ground improvement of the sport field in Luopioinen, Finland.

ALLU PM POWER MIX MODELS

ALLU PM 200 TECHNICAL DATA

- Weight 1895 kg
- Recommend base machine 25 - 30 t
- Max. Hydraulic Flow [l / min] 200
- Max. Continuous pressure [bar] 240

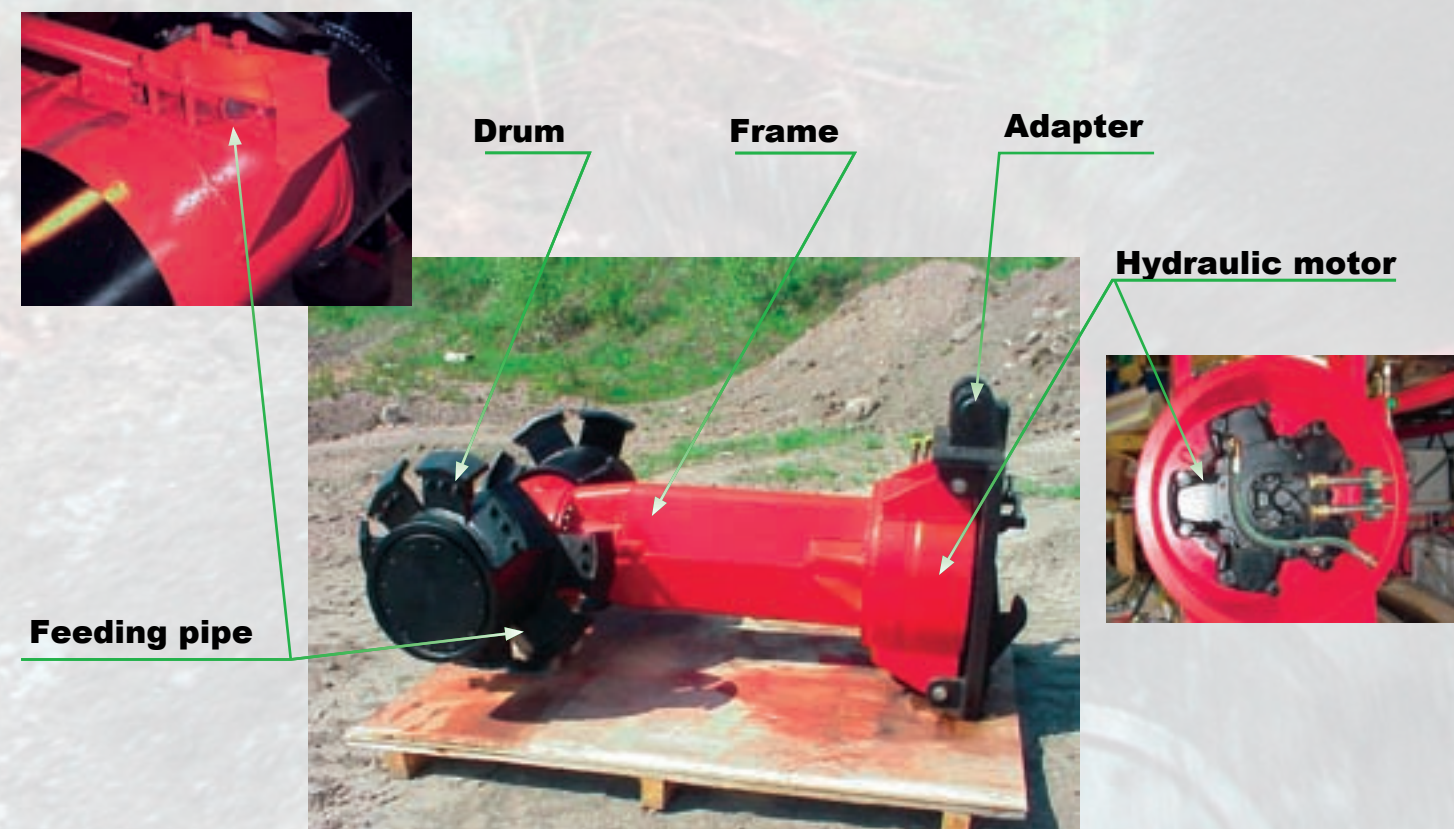


ALLU PM 300 TECHNICAL DATA

- Weight 2360 kg
- Recommend base machine 27 - 40 t
- Max. Hydraulic Flow [l / min] 200
- Max. Continuous pressure [bar] 240



ALLU PM POWER MIX MAIN COMPONENTS



Different drums for different jobs
All wear parts are made of special, wear resistant steel
Replaceable blades
Easy maintenance and service
Robust frame construction

ALLU PM POWER MIX APPLICATIONS

Mass stabilization

ALLU PM Power Mix is stabilizing a soft swamp area in to a parking area in Kivikko near Helsinki.



Processing of contaminated soils

ALLU PM Power Mix processing contaminated soil by mixing stabilizer elements into the contaminated material on site.



Recycling of soft organic waste soil

With the ALLU PM Power Mix it is easy to utilize also the soft waste soils for

