



# EIRICH

## Mixing Technology for Geopolymer Bonded Materials

Any consistency can be manufactured / processed:

- Dry mixes
- Plastic bodies
- Granular material / press bodies
- Suspensions / castable slip

### The unique working principle

#### Rotating pan

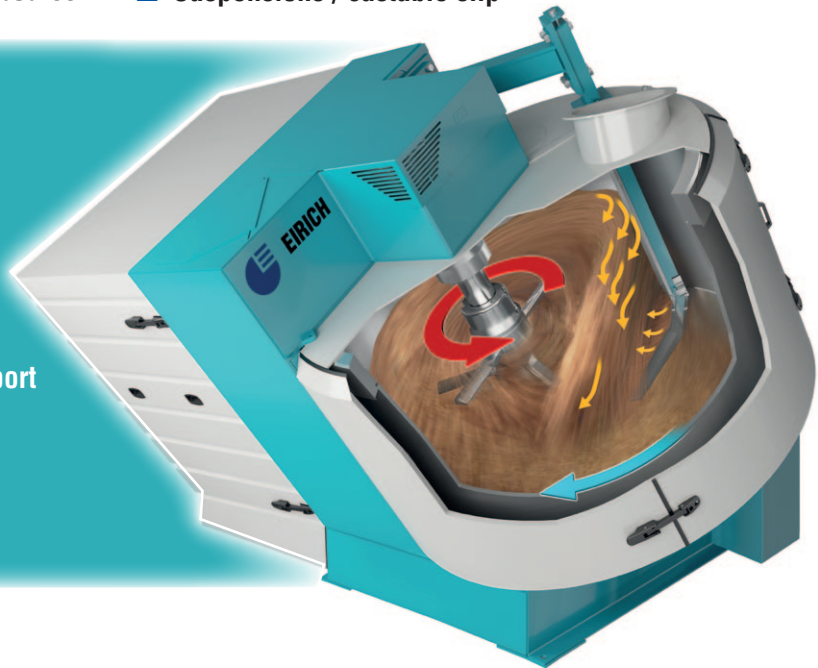
for transporting the product

#### Variable-speed mixing tool, slow to fast

for mixing, kneading, granulating

#### Separation between material transport and the mixing process

This allows the speed of the mixing tool (and thus the power input into the mix) to be varied within wide limits.



#### This working principle offers the following possibilities:

- The mixing tool can be run variably, at low or high speed.
- The input of mixing energy into the mix can thus be selectively controlled.
- Solid and liquid components are admixed easily and quickly.
- Binders are optimally distributed, therefore often smaller amounts need to be added.
- Fibers are admixed fast.
- By varying the speed, disintegration and distribution of fibers can be adjusted within wide limits.
- Suspensions can be produced containing a high content of solids.
- Plastic bodies can be prepared within a few minutes.
- By adding solids to suspensions, pourable press bodies can be produced.
- By adding toxic residues to suspensions, it is possible to obtain consistencies that are safely immobilized and suitable for depositing in landfills.
- By adding foaming agents or introducing synthetic foam into suspensions, it is possible to process lightweight materials.

#### Other advantages:

- No dead zones in the mixer
- Short process times
- No shaft passages in contact with the product, little wear
- Optimal separation of agglomerates and fibers without choppers
- Only 1 mixing tool for mixer sizes from 1 liter up to 3000 liters
- Suitable for alkaline and acid activation
- Different manufacturing steps performed successively in different units can often be accomplished in 1 single machine.
- Operation in batch mode or continuous mode
- Cooling in the mixer is possible.
- Heating the mixer is possible.
- Mix temperatures of up to 250 °C are possible.
- Sizes from 1 liter

**Top-name manufacturers around the world work with EIRICH mixing technology.  
We would be glad to provide references on request. EIRICH is a research partner for universities.  
Put us to the test. We would be glad to tell you more.**

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**MIXING TECHNOLOGY**