

Mixing Technology for Polymer Concrete

- Aggregates of any grain size and density can be used
- Easy intermixing of organic or inorganic fibers
- Easy intermixing of ultra-fine materials
- More aggregates can be mixed in, reduced need for synthetic resin
- No premixing of resin and hardener required

The unique working principle

Rotating pan

for transporting the process material

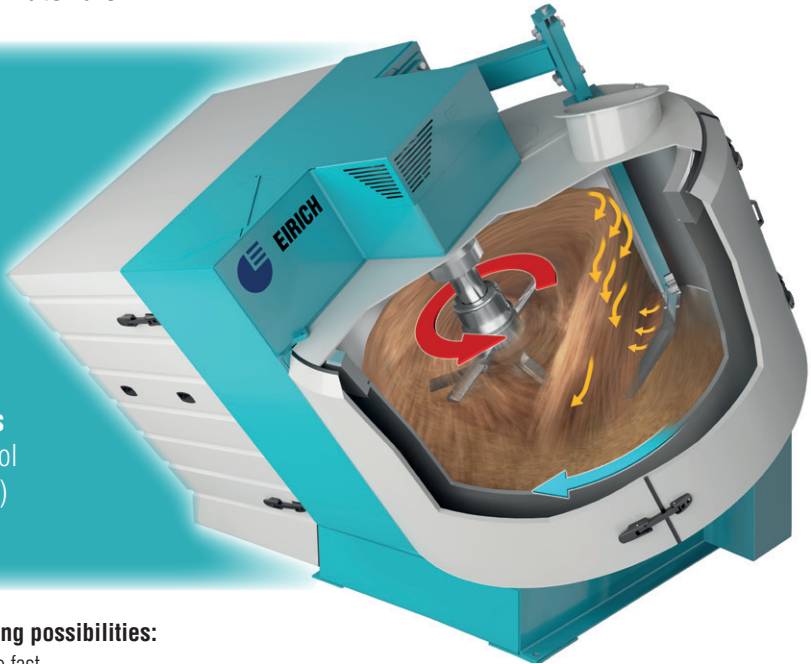
Variable speed tool

slow to fast

for mixing, kneading, homogenizing

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 varied from slow to fast
- The input of mixing energy into the mix can thus be controlled efficiently
- Solid and liquid components are mixed in easily and quickly
- Binders are optimally distributed, therefore often smaller amounts need to be added
- Optimal separation of agglomerates and fibers
- Difficult additives (such as coloring pigments or graphite) are also mixed in without any problems at higher speeds
- It is possible to mix in breakable lightweight aggregates at slower speeds
- No product-contacting shaft passages that are susceptible to wear
- For machine sizes ranging from 1 to 900 liters, it is possible to retract the mixing tool from the mixer. The mixing pan is easily accessible.

Other advantages:

- No dead zones in the mixer
- Short process times
- Only 1 mixing tool for mixer sizes from 1 liter up to 3,000 liters
- Cooling in the mixer is possible, if required to a precision of within +/- 1 K
- Resin and hardener are added directly during the mixing process
- Fewer mixing tools which run close to the bottom or the wall are needed with this design resulting in far less wear



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 look forward to telling you more.

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