

Coating in the EIRICH mixer

■ powders, sands and granules

- Hydrophobing
- Pigmenting
- Activating
- Sealing
- Improvement of flow properties
- of sands
- of granular rock materials
- of synthetic raw materials
- of granules (e.g. proppants)
- of natural or synthetic fibers

■ with liquids or solids

- of abrasive grains
- of extinguishing powders
- of carbon carriers
- of fertilizers
- of animal feed

The unique working principle

Rotating mixing pan

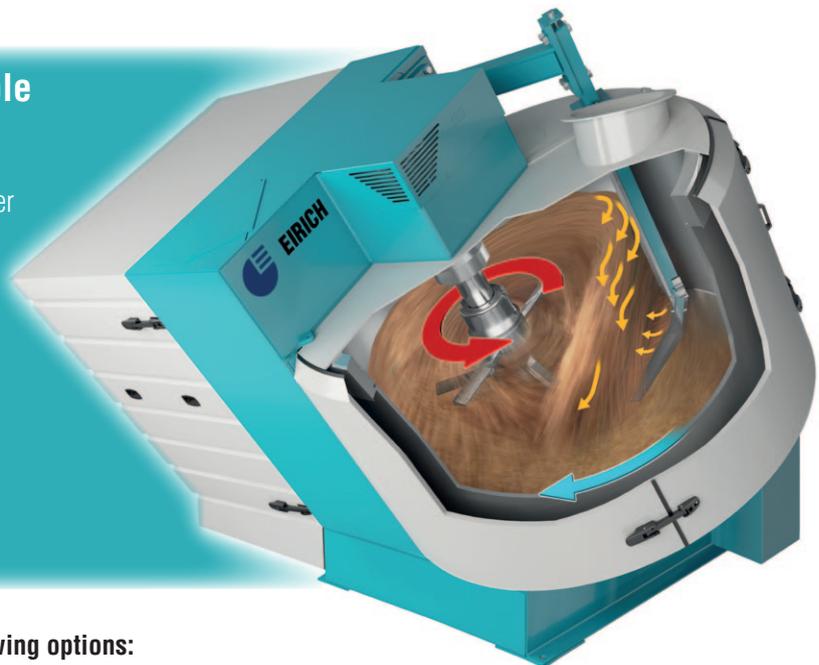
for material transport, rolling movements like in a disk pelletizer

Variable-speed mixing tool, slow to fast

Optimum material circulation for mixing and coating

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 options:

- The mixing tool can be run variably, slow to fast
- The power input into the mix can thus be controlled specifically
- Liquid components or solid matters are mixed in easily and quickly
- Small amounts of liquids or solids (even in the ppm range) are distributed optimally
- Granular materials susceptible to abrasion (e.g. spray grain) are coated gently
- Organic fibers are wetted optimally, natural fibers for insulating materials are provided with biocidal active substances to avoid decay
- Optimal disintegration of agglomerates, without choppers
- Only 1 mixing tool for mixer sizes from 3 up to 3000 liters
- Process temperatures up to 250 °C possible
- Working under potentially explosive conditions possible
- Working under normal pressure or subatmospheric pressure
- Mixing, granulating and coating in one aggregate
- Drying in the mixer possible

Further advantages:

- No dead zones in the mixer
- Short processing times
- No shaft passages in contact with the product, little wear
- Simple cleaning, no material caking at the mixing pan wall
- Uniform coating layers obtainable
- Minimal coating thicknesses achievable
- Coating even possible with very sticky materials

EIRICH customers tell from experience:

- Optimal distribution of liquids, therefore less additional quantities necessary
- Simple cleaning, no material caking at the mixing pan wall
- Uniform coating layers obtainable
- Minimal coating thicknesses achievable
- Coating even possible with very sticky materials

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.

Eirich Machines, Inc.

4033 Ryan Road, Gurnee, IL 60031

Phone: 847-336-2444, Fax: 847-336-0914

E-Mail: eirich@eirichusa.com

Web: www.eirichusa.com

MIXING TECHNOLOGY