



## Mixing Technology for the Ceramic Industry

### Granules/Press bodies for

- ceramic tiles
- stove tiles
- technical ceramics

### Granules for

- molecular sieves
- proppants
- grinding balls
- expanded sand / expanded clay / expanded glass

### Plastic bodies for

- ceramic tiles
- roof tiles
- clay bricks
- stove tiles
- utility ceramics
- technical ceramics (catalysts, high-temperature materials)

### Bodies for foamed and heat insulation ceramics

- **Spray slurry for**
- wall and floor tiles
- utility ceramics
- technical ceramics

### Casting slurry for

- sanitary ceramics
- technical ceramics
- utility ceramics

### Nanoceramics

### Fiber-reinforced ceramics

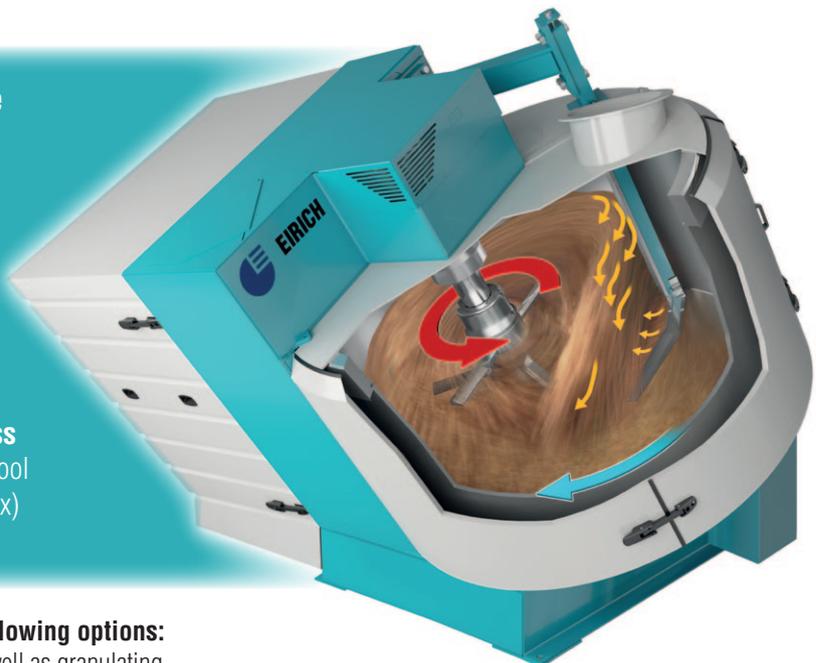
- carbon ceramics for brake disks

### The unique working principle

**Rotating mixing pan**  
for material transport

**Variable-speed mixing tool, slow to fast**  
for mixing, kneading, granulating, dispersing

**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 mixing principle offers the following options:

- The mixer is suitable for mixing as well as granulating, kneading and dispersing
- The mixing tool can be run variably, at low or high speed
- The input of power into the mix can thus be controlled specifically
- High tool speeds allow
  - agglomerates to be disintegrated perfectly
  - fibers to be disintegrated optimally
  - primary particles to be completely coated with an organic solvent film when dispersing
- Medium tool speeds allow high-quality mixtures to be produced
  - extrusible mixes to be kneaded effectively
  - green scrap and drying losses to be plasticized or dispersed again
- Low tool speeds allow lightweight aggregates or synthetic foams to be mixed-in gently

### Further advantages:

- No areas with low flow
- Variable power input, mixing energy exactly adjusted to the respective task
- Short processing times
- Small space requirement
- The mixer can be heated
- Mix temperatures of up to 250°C are possible
- Available size from 1 L

### EIRICH customers tell from experience:

- Energy savings compared to other systems
- Higher apparent densities or densities per liter achievable
- As a result, further energy and cost savings, e. g. with thermal granulation

**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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**CERAMICS**