# Mixing Technology for Technical Ceramics

- **Extrusible bodies**
- **CIM mixes**
- **Press bodies**
- **Granules**
- **Casting slurry**
- **Spray slurry**

for:
- catalysts
- insulators
- varistors
- bioceramics
- wear-resistant ceramics
- ballistic ceramics

- structural ceramics
- cutting ceramics
- high-temperature ceramics
- magnetoceramics (ferrites)
- foamed ceramics
- nanoceramics

## 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.
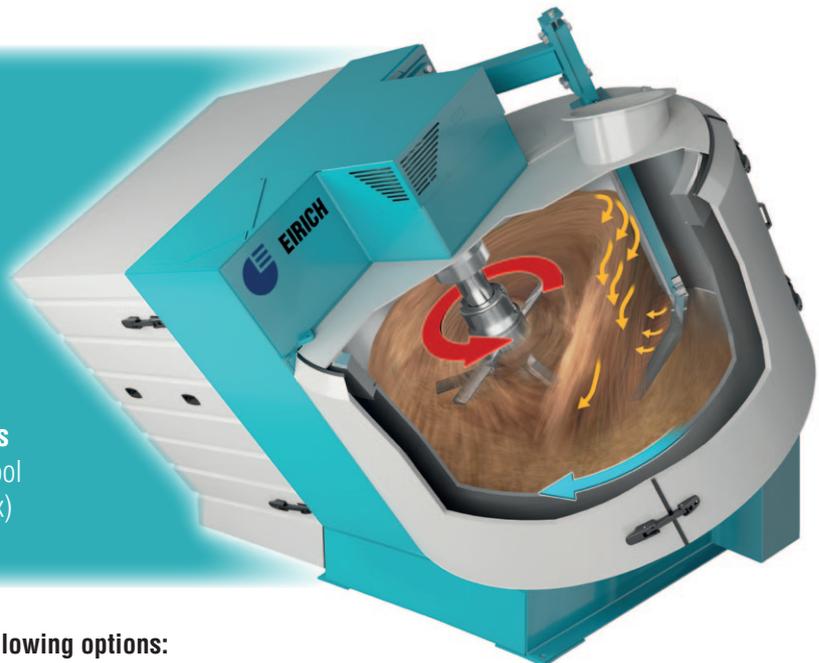


### This working principle offers the following options:

- The mixer is suitable for mixing as well as granulating, kneading and dispersing
- The 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 to be mixed-in gently
  - granules to be rounded

### Further advantages:
- Short process times
- The mixer can be heated
- Mix temperatures of up to 250 °C are possible
- Available size from 1 L

### EIRICH customers tell from experience:
- High accordance with the formula, each new mix is like the one before
- Product improvements by higher mixing quality
- Less scrap

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

**CERAMICS**