



## Mixing Technology for Abrasives and Abrasive Tools

### Abrasives

- for abrasive grains (coating), e. g.
  - corundum
  - silicon carbide
  - zirconium aluminum oxide
  - diamond

### Grinding tools

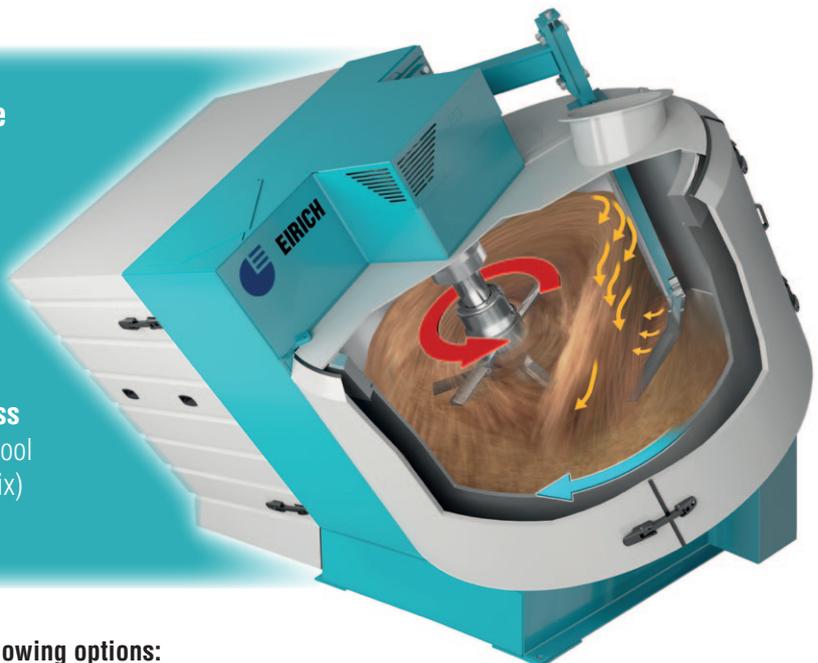
- ceramic-bonded grinding media
- synthetic resin-bonded grinding media
- metal-bonded grinding media
- flex wheels
- coated abrasives
- vibratory grinding media
  - ceramic vibratory grinding media
  - plastic-bonded vibratory grinding media

### The unique working principle

**Rotating mixing pan**  
for material transport

**Variable-speed mixing tool,**  
**slow to fast**  
for mixing

**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 input of power into the mix can thus be controlled specifically
- High tool speeds allow
  - fines to be mixed optimally
  - agglomerates to be disintegrated perfectly
  - very small amounts of additives to be mixed-in optimally
- Medium tool speeds allow coarse grains to be completely coated with binder
- The mixer is suitable for producing slightly trickling press bodies (easier filling of molds)
- The mixer is not only suitable for mixing but also for kneading / plasticizing
- The mixer is suitable to transfer fine material mixes into granules (easier filling of molds)

### Further advantages:

- Mixing processes and mixing speeds can be adjusted to the respective formula
- Only one moving tool, thus easy cleaning
- Removable mixing pan if mixers are used in sizes from 3-5 L and 8-10 L
- Discharge by tilting of mixing pan if mixers are used in sizes of 40 L and 150 L
- Operation under explosion protection conditions / with vacuum enables working with organic solvents
- The mixer can be heated
- Mix temperatures of up to 250°C are possible
- Available size from 1 L

### EIRICH customers tell from experience:

- Clearly low wear also with highly abrasive process material
- Short processing times
- Simple addition of pore forming agents
- Separate kneading process becomes unnecessary

**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.**