

Mixing Technology for Refractory Materials

■ Shaped products

- brick press bodies of any kind
- bodies for insulating firebricks
- kiln furniture press bodies
- bodies for isostatic pressing
- bodies for ceramic filters

■ Unshaped products

- dry mixes (e. g. castables)
- plastic bodies
- ramming mixes
- mixing of castables for prefabricated parts
- mortar and putties

The unique working principle

Rotating mixing pan

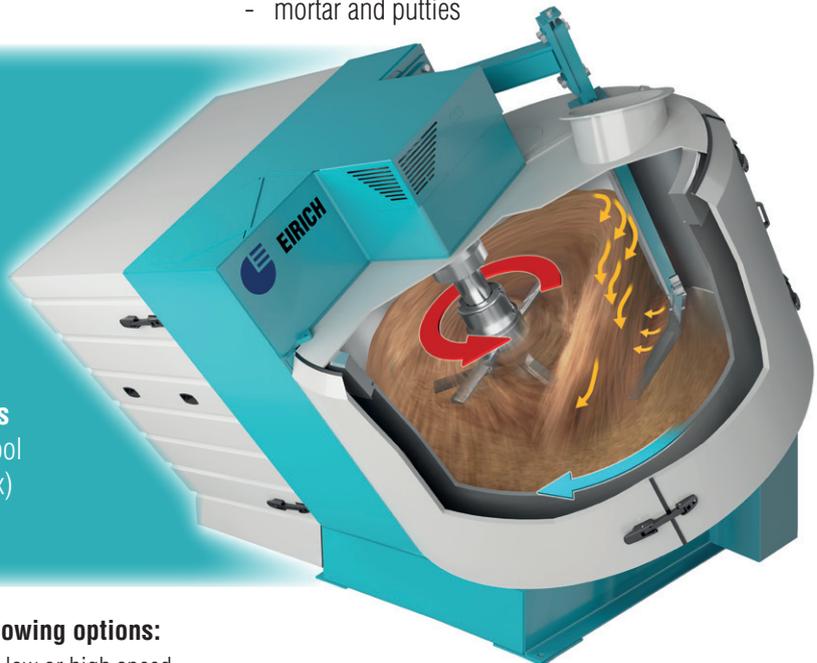
for material transport

Variable-speed mixing tool, slow to fast

for mixing, kneading etc.

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, at low or high speed. The input of power into the mix can thus be controlled specifically.
- High tool speeds allow
 - fibers (synthetic, ceramic, steel) to be disintegrated optimally
 - very small amounts of additives to be mixed-in optimally
- Medium tool speeds allow high-quality mixtures to be produced
- Low tool speeds allow lightweight aggregates to be mixed-in gently

Further advantages:

- Mixing processes and mixing speeds can be adjusted to suit the respective formula
- The mixer is suitable for both mixing and kneading. This allows to also prepare silica brick press bodies without muller and to produce plastic / extrudible bodies without kneader.
- The mixer is suitable for mixing and granulating. This provides a cost-effective solution for the production of granules (for isostatic presses or alternatively to thermal granulation)

- Operation under protective gas / redrying of granules and bodies under vacuum is possible
- Dry mixers can be supplied with an automatic pneumatic interior cleaning system
- The mixer can be heated
- Mix temperatures of up to 250°C are possible
- Available size from 1 L

EIRICH customers tell from experience:

- Mixing result and mixing quality remain unchanged even if only partial quantities are mixed, down to 30% of the nominal capacity
- Dry mixing: Distinctly fewer repairs due to wear compared to cylindrical mixers
- Substantially less water is required for manufacturing prefabricated components, less porosity

**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