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

Bodies for foamed and heat insulation ceramics:
- Spray slurry for
  - wall and floor tiles
  - utility ceramics
  - technical ceramics

Fiber-reinforced ceramics:
- carbon ceramics for brake disks

Casting slurry for:
- sanitary ceramics
- technical ceramics
- utility ceramics

Nanoceramics

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.