

HIGH INTENSIVE MIXING FOR CERAMIC PROCESSING

High shear counter-current mixing technology for uniform dispersion, consistent moisture distribution, and reliable ceramic batch preparation.

In ceramic manufacturing, material preparation has a direct impact on forming, firing, and final product quality. High Intensive mixing provides fast, efficient blending of powders, binders, pigments, and additives to produce highly homogeneous mixes for demanding ceramic applications.

Designed for powder-rich formulations, this technology helps manufacturers improve consistency, reduce variability, and prepare production-ready material with confidence.

CERAMICS INDUSTRY



KEY BENEFITS



EXCELLENT HOMOGENEITY

Achieves thorough blending of powders and additives for consistent batch quality.



SHORTER MIXING CYCLES

Improves throughput while maintaining product quality.



RAPID WETTING & DISPERSION

Promotes fast liquid incorporation and effective deagglomeration of fine materials.



REDUCED BATCH VARIABILITY

Delivers repeatable mixing performance that supports process stability.



IMPROVED DOWNSTREAM PERFORMANCE

Supports better pressing, shaping, granulation, drying, and firing results.

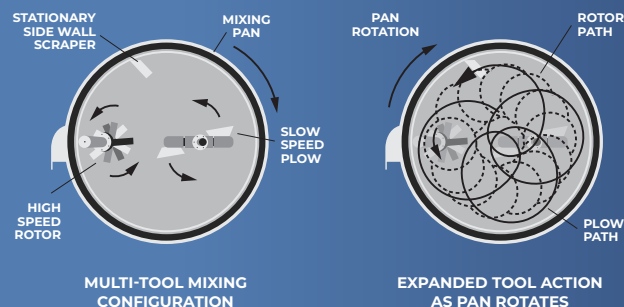


MIX-GRANULATE

For improved material handling and flowability into downstream molds and presses.

WHY COUNTER-CURRENT MIXING?

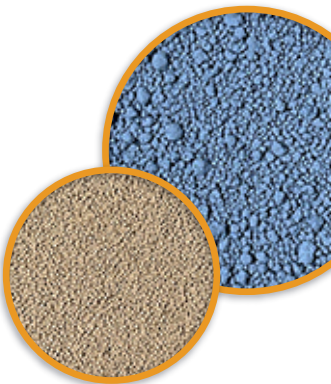
High shear counter-current mixing combines intense mixing action with opposing material flow to maximize particle interaction and improve distribution throughout the batch. This enables efficient blending of ceramic raw materials and additives, even in demanding formulations where uniformity is critical.



BUILT FOR A WIDE RANGE OF CERAMIC APPLICATIONS



High shear counter-current mixing is ideal for ceramic processes that demand uniformity, efficient additive distribution, and reliable moisture control. It supports both traditional ceramic production and advanced engineered material systems.



PROCESS ADVANTAGES

- ✔ More Uniform Moisture Distribution
- ✔ Better Dispersion of Fine Powders
- ✔ No Agglomerates and Unmixed Zones
- ✔ Improved Minor Additive Dispersion
- ✔ More Consistent Feed for Downstream Operations
- ✔ Reduced Waste, Rework, and Process Variation
- ✔ Ability to Granulate for Improved Flowability



TYPICAL MATERIALS

- Clays
- Feldspar
- Silica
- Alumina
- Zirconia
- Pigments
- Binders
- Specialty Additives

APPLICATIONS

TECHNICAL CERAMICS	Enables precise mixing of fine and specialty powders used in advanced ceramic formulations where tight control is essential.
REFRACTORY MIXES	Handles dense, abrasive materials while improving liquid distribution, moisture uniformity, and batch repeatability.
TILE BODIES	Provides consistent blending of clays, feldspar, silica, and additives for improved press feed preparation and more stable production.
SANITARYWARE & WHITEWARE	Promotes homogeneous body preparation to support shaping performance, surface quality, and dimensional consistency.
PIGMENTS & SPECIALTY ADDITIVES	Supports accurate dispersion of low-dose ingredients for improved color consistency and formulation control.

Whether processing traditional ceramic bodies or high-performance formulations, high shear counter-current mixing helps convert raw materials into uniform, production-ready batches that support quality and efficiency throughout the process.