

Coffee Blends

Blending with Mechanical Fluidization

- Whole Bean Coffees
- Whole Bean with Flavored Oils
- Ground Coffees
- Powdered Coffee Drink Mixes
- Freeze-Dried Coffees

Benefits of blending coffees in a Fluidizing Paddle Blender:

- Rapid yet gentle blending
- Minimal shear and heat
- Minimal product degradation, < 2% bean breakage!
- Homogeneous mix - very high mix quality
- Fast, even liquid addition and coating
- Shorter mix cycles
- Lower CV values
- Lower consumed power
- Fast, flush discharging bomb bay doors (in FZM)



Blending Technology for Coffee

The APS product line is perfectly suited for the coffee industry. The key to our success for blending coffee are the **OptimaBlend® Fluidizing Blender** and the **OptimalBlend™ Fluidizing Zone Mixer**. Compared to conventional paddle and ribbon blenders, their innovative design ensures rapid yet gentle blending, shorter mix cycles, lower operating costs, and minimal product degradation (coffee bean breakage less than 2%).

Precision spray control systems can be integrated into the blender for adding food coatings and flavoring oils. The spray systems are available in a wide variety of materials, body types, and mounting options. They can be sized and adjusted to maximize process flexibility. Optional quick-connect nozzles can be incorporated to speed up changeovers, reduce maintenance time, and lower costs. Successful applications include:

Flavoring oils

- Hazelnut cream
- Chocolate
- Butter rum

Coatings

- Shellac
- Starch
- Gum

OptimalBlend™ Fluidizing Zone Mixer:

Fluidization is achieved by **twin shaft, overlapping or tangential, paddle assemblies** rotating in opposite directions at comparatively low rotor speed. Drawing material from each paddle assembly, the material is swept towards the middle of the blender creating a lifting (floating) action / fluidized zone.

Bomb bay doors on the bottom promote mass flow discharge of mix in under 10 seconds.



OptimaBlend®



OptimalBlend™

Eirich Machines, part of worldwide Eirich Group, is an international supplier of machinery, systems, and services for material processing. With the two product lines EIRICH and American Process Systems® (APS), we offer the most comprehensive range of mixers, blenders, pelletizers, dryers, and grinding mills.

Our APS product line includes:

- Fluidizing Paddle Blenders
- Ribbon Blenders
- Paddle-Ribbon Blenders
- Paddle Blenders
- Plow Blenders
- Dryers/Reactors



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