



## 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



#### Eirich Machines, Inc.

4033 Ryan Road  
Gurnee, IL 60031

847-336-2444

eirich@eirichusa.com

www.eirichusa.com