



# Nutraceuticals / Supplements

## Superior Blending in an OptimaBlend® Fluidizing Paddle Blender



### Benefits of blending nutraceuticals in a Fluidizing Paddle Blender from APS:

- Ingredients of various size, shape, and density are mixed efficiently thanks to the mechanical fluidization action
- Ideal for complex recipes with many different ingredients
- Working capacity up to 400 cubic feet - Ideal for quality control with large lot sizes
- Minimal shear and heat
- Homogeneous mix - very high mix quality
- Lower CV values
- Faster mixing
- No overmixing
- Sanitary design

### Available options for optimal performance



Filtered/non-filtered bag dump stations  
Clean-in-place kits



Pneumatically actuated cover



Sanitary Quick Clean Gate

### And many more customized features!

Dietary Supplements/Vitamins • Whey Powders • Weight-Loss Shakes • Sports Drinks  
Amino Acids • Peptides • Proteins • Minerals • Carotenoids • Probiotics

# Case Study - Vitamin Premix

## The company:

The customer is an American nutrition and weight-loss company with an emphasis on convenient weight-loss meal plans. The company's products include meal kits, weight-loss bars, shakes, and smoothies.

## The challenge:

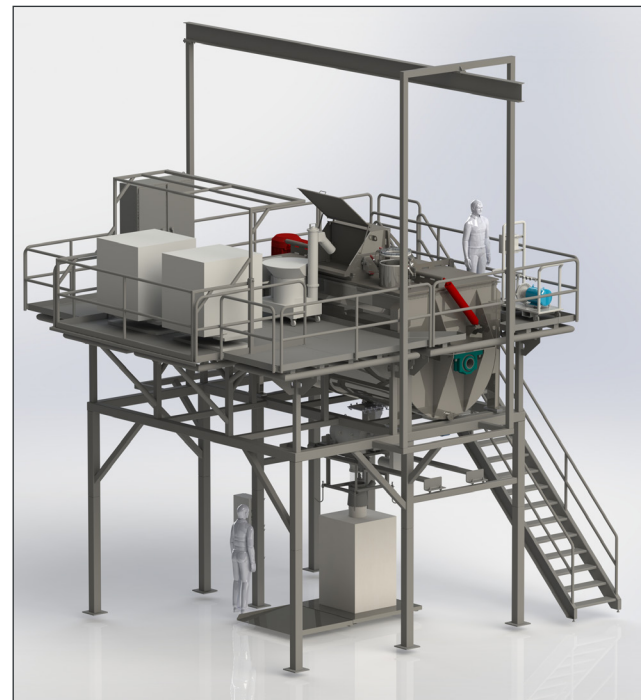
The customer approached Eirich Machines looking for a better way to manufacture a vitamin pre-mix for weight-loss shakes in a more cost-effective manner. The existing process took as long as 3 hours to charge the mixer and 40-45 minutes to blend.

## The solution:

Our OptimaBlend® Fluidizing Paddle Blender's superior mixing performance provides an excellent cost-effective alternative for blending and mixing ingredients and overcomes the limitations of established ribbon and v-blender technologies. The OptimaBlend Fluidizing Paddle Blender mechanically fluidizes the product ensuring an efficient and gentle mixing process regardless of density, shape or size. It enables you to achieve coefficient of variance targets on complex applications that conventional mixing equipment cannot maintain.

## The results:

We replaced their V-Blender with an OptimaBlend FPB-125 Fluidizing Paddle Blender. **The OptimaBlend reduced the charge time to 30 minutes and the mix time to 3-4 minutes representing an 80% decrease in charging time and a 90% decrease in mixing time.**



**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](mailto:eirich@eirichusa.com)

[www.eirichusa.com](http://www.eirichusa.com)

