

RIBBON/PADDLE/PLOW BLENDERS

With 50 years experience manufacturing Ribbon, Paddle and Plow Blenders for every industry and bulk material imaginable, Munson can solve your specific problem with unmatched efficiency. Choose from basic, low cost industrial units to state-of-the-art designs of 304/316 stainless and exotic alloys with heating/cooling jackets, liquid spray additions, high-speed choppers/ intensifiers, and finishes to USDA, 3-A Dairy and other standards. Extreme vessel rigidity allows extremely close agitator-to-vessel wall tolerances, resulting in a minimum "heal" of residual following discharge. Heavy- and extra-heavy-duty batch and continuous models in capacities from 1 to 1000 cu ft (.03 to 28 cu m).



ROTARY BATCH MIXERS

Gently blends batches of ingredients in parts down to one per million with 100% uniformity in less than three minutes, regardless of disparities in bulk densities, particle sizes or flow characteristics. Rotating drum with proprietary mixing flights tumbles, turns and folds material, imparting minimal energy, and elevates the batch for 100% discharge with no separation. Blends with equal efficiency from 5% to 100% of rated capacities of 5 to 600 cu ft (0.14 to 17 cu m). Sanitizes rapidly with no tools. Available to industrial, 3-A and USDA standards, with CIP nozzles and spray line for liquid additions.



MUNSON FORBERG MIXERS

Unlike Ribbon and Paddle blenders with a single agitator shaft, the Munson Forberg mixer features two counter rotating shafts with multiple, overlapping agitation paddles creating a mechanical fluidizing zone along the centerline of the mixer. Airborne individual particles are distributed rapidly throughout the batch, achieving a homogeneous blend in 10 seconds to two minutes. Low shear forces minimize friction with little or no degradation and with insignificant heat generation of <0.6°F (1°C). Large discharge doors provide rapid discharge with no segregation and little residual for easy cleaning. Capacities from 265 to 28,660 lb (120 to 13,000 kg).



COMPARE

SIX BULK BLENDERS AGAINST YOUR SPECIFIC NEEDS

Excellent
 Good
 Fair
 Poor

The ratings below are generalizations that do not apply to all applications. Please consult factory for specific equipment recommendations.

		BATCH			CONTINUOUS				
MATERIAL REQUIREMENTS	Abrasive Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Abrasive Materials	<input type="checkbox"/>
	Brittle Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Brittle Materials	<input type="checkbox"/>
	Chips	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chips	<input type="checkbox"/>
	Crystals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Crystals	<input type="checkbox"/>
	Emulsions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Emulsions	<input checked="" type="checkbox"/>
	Fibrous Materials	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fibrous Materials	<input checked="" type="checkbox"/>
	Fragile Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fragile Materials	<input type="checkbox"/>
	Glass Cullet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Glass Cullet	<input type="checkbox"/>
	Large Variance In Particle Sizes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Large Variance In Particle Sizes	<input type="checkbox"/>
	Pastes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pastes	<input checked="" type="checkbox"/>
	Pellets	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pellets	<input type="checkbox"/>
	Powders	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Powders	<input checked="" type="checkbox"/>
	Slurries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Slurries	<input checked="" type="checkbox"/>
	Sticky/Tacky Materials	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sticky/Tacky Materials	<input checked="" type="checkbox"/>
EQUIPMENT REQUIREMENTS	Complete Discharge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Complete Discharge	<input checked="" type="checkbox"/>
	Gentle Blending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gentle Blending	<input checked="" type="checkbox"/>
	Low Maintenance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low Maintenance	<input checked="" type="checkbox"/>
	Lowest Energy/Amt Blended	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Lowest Energy/Amt Blended	<input checked="" type="checkbox"/>
	Lowest Initial Cost	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lowest Initial Cost	<input type="checkbox"/>
	Rapid Blending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rapid Blending	<input checked="" type="checkbox"/>
	Rapid Sanitizing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rapid Sanitizing	<input checked="" type="checkbox"/>
	Uniform Blending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Uniform Blending	<input checked="" type="checkbox"/>
Uniform Liquid Additions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Uniform Liquid Additions	<input checked="" type="checkbox"/>	



RIBBON/PADDLE/PLOW BLENDERS



ROTARY BATCH MIXERS



MUNSON FORBERG MIXERS



CYLINDRICAL PLOW BLENDERS



ROTARY MIXERS (CONTINUOUS)



HIGH INTENSITY BLENDERS (CONTINUOUS)

FOR OBJECTIVE ADVICE ASK THE ONLY MANUFACTURER OF ALL SIX BLENDERS

No blender is best at everything. Which is why you should specify your requirements before specifying your blender.

Problem is, most manufacturers make only one or two kinds of bulk solid blenders, so objective advice about the best one for you may be hard to find.

But Munson manufactures eight types of blenders, six of which are shown above—

and offers free lab testing on them all. So in addition to being objective, Munson can tell you precisely how effective—or ineffective—each blender would be at meeting your specific cost and performance requirements.

So before you price-out a blender, spec it out with the expert help of a Munson engineer—at no cost or obligation. And take the risk out of buying a blender.

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CYLINDRICAL PLOW BLENDERS

This high performance blender can handle materials that are extremely fibrous, interlocking, dense, moist/oily, cohesive or repellent. The horizontally-oriented mixing shaft typically rotates 3- to 4-times faster than the shafts of trough-style ribbon, paddle and plow blenders, which fills the entire mixing vessel with fluidized material, maximizing transfer rates. These machines can achieve homogeneous blends in ratios to one part per thousand significantly faster than single-shaft low speed agitated blenders, and handle a wider variety of materials. Available with spray injection nozzles for liquid additions, and with high speed choppers for added intensity. Also available jacketed.



ROTARY MIXERS (CONTINUOUS)

This Sanitary Rotary Continuous Mixer blends bulk ingredients in ratios as extreme as one part per million with 100% uniformity regardless of disparities in the bulk densities, particle sizes or flow characteristics of ingredients. Capacity ranges from 30 cu ft/h (0.85 cu m/h) at 1-minute residence time, to 42 cu ft/h (1.19 cu m/h) at 2-minutes residence time. Mixing flights in slowly rotating cylinder distribute ingredients thoroughly and gently while eliminating internal restrictions where material could plug or accumulate. Optional internal spray line allows uniform introduction of a liquid additive for spray coating, de-dusting, perfuming and conditioning of materials.



HIGH INTENSITY BLENDERS (CONTINUOUS)

The Munson High Intensity Continuous Blender provides the added shear needed for high speed blending, homogenizing and/or de-lumping of dry ingredients, slurries and pastes. A fast, high capacity machine that operates on small working volumes with minimum residence times of 5 to 30 seconds, it can be equipped with spray injection nozzles for large additions of liquids, which can also serve to dedust dry materials. It features a high-impact, pug mill type, pin and paddle agitator for intensive blending. Capacities range from 300 to 4000 cu ft/h (8.5 to 113 cu m/h). Also available gear reduced for low intensity requirements.

