EQUIPMENT FOR DRY BULK BLENDING & LIQUID ADDITIONS

SIZE REDUCTION LINE CARD

ROTARY BATCHMIXERS

- Gentle mixing action achieves uniform blends in less than 3 minutes. Excellent for liquid additions and coatings
- Capacities from 5 to 600 cu ft (142 ℓ to 17 m^3)
- Total discharge, rapid sanitizing
- 2 to 75 hp (1.5 to 55.9 kw) single or dual gear reduced drives
- Typical applications: nutraceuticals, foods, coffee/tea, tobacco, chemicals, refractories, glass, metal powders, fertilizers, herbicides/pesticides, plastic pellets, concrete/mortar, mineral feeds, drink mixes, detergents

RIBBON/PADDLE/ PLOW BLENDERS

- Ultra-heavy-duty, horizontal, double helical ribbon, paddle or plow blenders with removable agitator shaft
- Optional internal spray line, heating and cooling jackets, multiple cover and discharge designs
- Capacities from 1 to 1,150 cu ft (.028 to 32.56 m^3)
- 1 to 150 hp (0.75 to 93.2 kw) in direct or foot-mounted drives
- Diverse applications: chemicals, pharmaceuticals, cosmetics, spice and food products, gypsum/stucco, plastics, pigments, resins, dairy products, tobacco

ROTARY BATCH MINI MIXERS

- Pilot/lab version of Rotary Mixer gently achieves uniform blends in less than 3 minutes. No segregation upon discharge
- Optional liquid spray line, discharge hood, intensifier
- Capacities from .25 to 15 cu ft (7.1 to 425 ℓ)
- 2 to 5 hp (1.5 to 3.7 kw) gear reduced drives
- Typical applications: nutraceuticals, foods, coffee/tea, tobacco, chemicals, refractories, glass, metal powders, fertilizers, herbicides/pesticides, concrete/ mortar, plastic pellets

FLUIDIZED BED MIXERS

- Twin, counter-rotating agitator shafts rotate rapidly to gently fluidize low- to medium-density bulk materials (including liquid additions)
- Single 5 hp (3.7 kw) drives to dual 75 hp (55.9 kw) drives
- Achieves uniform blends in 30 seconds (typical) with little or no degradation of friable materials
- Capacities from 0.21 to 283 cu ft (5.90 ℓ to 8.01 m^3)
- Typical applications: cereal/foods, pet foods, coffee/tea, pharmaceutical products, plastics, fibrous products

CYLINDRICAL PLOW BLENDERS

- High-intensity batch blending of bulk materials that do not readily intermix, faster than with conventional ribbon/paddle/plow blenders
- Jackets, choppers, and ports or spray heads for liquid additions/ injections
- 1 to 400 cu ft (28 ℓ to 11 m^3) useable capacity
- 1 to 200 hp (0.75 to 149.1 kw) in direct or foot-mounted drives
- Typical applications: foods, pharmaceuticals, nutraceuticals, wood, plastics, bakery products, detergents

VEE CONE BLENDERS

- Dry, granular materials fall, converge, and divide for gentle, uniform blending with low energy usage.
- Optional liquid addition bar with intensifier
- Complete discharge, thorough sanitizing
- 0.25 to 200 cu ft (7 ℓ to 5.66 m^3) useable capacity
- 0.5 to 100 hp (0.4 to 74.5 kw) gear reduced drives or direct chain and sprocket drives
- Typical applications: pharmaceuticals, nutraceuticals, spices, chemicals, plastics, ceramics, metal powders

CONTINUOUS VARIABLE INTENSITY BLENDERS

- High- or low-speed shaft with 180° adjustable paddles. Optional spray/ injection ports for liquid additions or creation of slurries
- 10 to 125 hp (7.5 to 93.2 kw) with gear reduced or belt drives
- High-speed operation for intensive mixing, or low speed, lower shear operation
- Vessel diameters from 8 to 36 in. (20.3 to 91.4 cm), lengths to 8 ft (2.4 m)
- Typical applications: chemicals, foods, fertilizers/herbicides/ pesticides, concrete/mortar, fly ash, asphalt, tobacco, slurries, clays

CONTINUOUS ROTARY BLENDERS

- Rotary style continuous mixer with fixed internal mixing flights
- Gentle, thorough mixing action with little or no product degradation. Excellent de-dusting and spray coating capabilities
- Vessel diameters from 16 to 72 in. (40.6 to 182.9 cm), lengths to 24 ft (7.3 m)
- 0.5 to 50 hp (0.4 to 37.3 kw) gear reduced drives
- Typical applications: snack foods, pet foods, drink mixes, detergents, carbons, pharmaceuticals, nutraceuticals, clays, fertilizers, coating granules, aggregates, plastic pellets, herbicides/pesticides

FOR OBJECTIVE ADVICE, ASK THE ONLY MANUFACTURER OF ALL EIGHT BLENDERS

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MM-0630

MUNSON®

EQUIPMENT FOR SIZE REDUCTION OF BULK SOLID MATERIALS

MIXING/BLENDING LINE CARD

CENTRIFUGAL IMPACT MILLS (PIN MILLS)

- Rotating impactor pin/disc assembly for fine and ultra-fine particle reduction and de-agglomeration, as well as intensive inline blending applications
- Design efficiency produces high throughput rates per hp/kw with minimal heat transfer
- Disc diameters from 8 to 34 in. (20.3 to 86.4 cm)
- 5 hp (4 kw) direct drive to 100+ hp (74.6+ kw) V-belt drives
- Typical applications: sugars, salts, starches, trona, friable powders, sodium bicarbonate, spices, vitamin powders, grains

SCC™ SCREEN CLASSIFYING CUTTERS

- Rapid throughput, minimum fines, precise sizing
- Advanced helical rotor design with interconnected parallelogram cutters and replaceable tungsten carbide, tool steel or hardened stainless steel inserts
- 10 to 72 in. (25.4 to 182.9 cm) wide housings, with magnum sizes also available
- 5 to 75 hp (3.7 to 55.9 kw) gear-reduced or belt drives
- Typical applications: ceramics, chemicals, paper, fiberglass, wood, unsintered powder metals, trim stock, herbs, spices

DE-CLUMPER™ LUMP BREAKERS

- Reduces agglomerates and compacted materials. Precise particle sizing
- Low-profile allows inline or stand-alone applications
- Models with 1 to 4 rotors in sizes from 12 x 12 to 48 x 48 in. (30.5 x 30.5 to 121.9 x 121.9 cm)
- Single 3 hp (2.2 kw) drives to 20+ hp (14.9+ kw) dual redundant drives
- Typical applications: agglomerated sugars, salts, sodium/calcium carbonates, chemicals, fertilizers, flakes, cement powders, hygroscopic products

ATTRITION MILLS

- Rotating powered disc mill for precise medium- to fine-grinding of both friable and non-friable materials
- Shaft-mounted grinding plates with adjustable, constant spring-pressure achieves product uniformity within narrow particle size ranges down to 100 mesh
- Disc diameters from 12 to 36 in. (30.5 to 91.4 cm)
- Belt drives from 20 to 125 hp (14.9 to 93.2 kw)
- Typical applications: powder metals, grains, regrind, scrap products and chemicals, including wet milling

ROTARY KNIFE CUTTERS

- Cutter/cracker with 5 rotating blades cutting against 4 stationary blades, propelling on-size particles through a perforated screen
- Extensive selection of screen sizes delivers controlled end product sizes with minimum fines
- Sizes from 24 to 48 in. (61.0 to 121.9 cm)
- 20 to 50 hp (14.9 to 37.3 kw) belt drives
- Typical applications: spices, roots, corn (cutting/cracking), grains, other food products and potpourri

HAMMERHEAD™ HAMMER MILLS

- Industrial-duty hammer mill for coarse and fine grinding of fibrous and friable materials at high rates with controllable sizing
- Replaceable hammers impact at high speeds. 270° screens maximize area/capacity and are easily removed through a hinged door
- 14.5 and 36 in. (36.8 and 91.6 cm) wide housings
- 20 to 150 hp (14.9 to 111.9 kw) direct drives
- Typical applications: plastics, chemicals, wood products, fertilizers, fibrous products, grain/corn, spices

CX HEAVY DUTY CUTTERS

- Single-rotor, high-torque cutter/hog with gravity feed or pneumatic ram for primary size reduction of larger, bulky materials
- Solid rotor mass with replaceable tips in a variety of configurations
- Widths from 12 to 36 in. (30.5 to 91.4 cm)
- Gear reduced or belt drives to 125 hp (93.2 kw)
- Typical applications: EPDM/ synthetic rubber, wood, chemicals, plastics, detergent blocks, scrap products, fertilizer, resins, chocolate blocks

TITAN™ SHREDDERS

- Twin-shaft, ultra-heavy-duty shredder with heat treated, resharpenable shredder heads reduces volume of diverse materials
- Low speed, high torque shredding with positive feeding and self-clearing action
- 6 to 12 in. (15.2 to 30.5 cm) diameter shredder heads, 28 to 60 in. (71.1 to 152.4 cm) chamber lengths
- Gear-reduced single 20 hp (14.9 kw) to 100 hp (74.6 kw) dual drives
- Typical applications: pallets, fiber drums, computer parts, plastics, rubber compounds, cardboard, regrind

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