





Advanced Material Processing brings together manufacturers of industry-leading material processing equipment to help customers improve production and widen profit margins.

kason

Kason has 50 years of experience designing and manufacturing screening, drying, cooling and processing equipment.

MARION

Marion, an 80-year-old company, custom manufactures processing equipment with industrial mixers, blenders and drying systems.

Both brands are proud of the reputation they've built for manufacturing equipment that stands the test of time. If you want machines that last, go with Kason and Marion.

PRIMARY INDUSTRIES WE SERVE



Food & Beverage



Pharmaceutical



Nutraceutical



Chemical Processing



Cannabis & Hemp Processing



Distillery



Powder Processing



Aquaculture





Visit Us Online to Learn More







SEPARATOR CONE MILLS



CENTRIFUGAL SIFTERS



STATIC SIEVE SCREENERS & SEPARATORS



FLUID BED PROCESSORS



Kason machines are engineered and inspected to ensure top quality that adheres to the most stringent of standards. That's because we know the important role these machines play in critical production processes.



PRIMARY INDUSTRIES WE SERVE

Kason offers a wide selection of screening, drying, cooling and processing equipment, complete with complimentary testing and on-site trials. You're in good hands, because most of our application engineers have an average of 25 years of industry experience.



Food and Beverage



Pharmaceutical



Nutraceutical



Chemical Processing



Cannabis & Hemp Processing



Distilleries



Aquaculture



Powder Processing

TRUSTED BY TOP MANUFACTURERS



































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VIBROSCREEN

Circular Vibratory
Screeners & Separators



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Nobody does screeners like Kason.

Make things easier for yourself with a Kason VIBROSCREEN.

The industry's best screeners and separators are built for easy maintenance, cleanability, operation and installation.



Quick-Clean Design for Fast Screen Changes



Increase Throughput and Minimize Labor Costs



Precise and Efficient Material Separation

Ideal Machine For

- Solids/solids separation
- Sifting
- Classifying

- Scalping
- De-dusting
- Solids/liquids separation
- De-lumping
- De-watering



KASON VIBRATORY SCREENER MATRIX Kason VIBROSCREEN Machine Diameter Our smallest screener Our largest screener 100 in. 18 in. 24 in 30 in. 40 in. 48 in. 60 in 72 in. 84 in Screen Diameter (182.9 cm) (213.4 cm) (45.7 cm) (61 cm) (76.2 cm) (101.6 cm) (121.9 cm) (152.4 cm) (254 cm) Single-Deck Υ Υ Υ Multi-Deck Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Portable/Batch Sifter Ν Ν Ν Ν Ν Ν Υ Υ Υ Υ Υ Ν Gap-Free Ν Ν Ν Batch Hopper/Feed Υ Υ Υ Υ Υ Ν N N N Control Ultrasonic Υ Υ Υ Υ Υ Υ Υ Ν Ν Air-Lift Ν Υ Υ Υ Υ Υ Υ Υ Ν **High-Capacity** Υ Υ Υ Υ Υ Υ Υ Υ Ν Scalping Low-Profile Υ Υ Υ Υ Υ Υ Υ Υ N Clean-in Place Υ Υ Υ Υ Υ Υ Υ Υ Ν **Quick Clean** Υ Υ Υ Υ Υ Υ Υ Ν Υ Υ Υ Υ Υ Υ Υ Sanitary Clamshell Υ Ν Υ Υ Ν Ν Ν Ν Ν Υ Υ Υ Υ Υ Υ Υ Υ **Anti-Blinding Devices Bag Dump Station** Υ Υ Υ Υ Υ Υ Ν Ν Ν Kascade Ν Υ Υ Υ Υ Υ Υ Υ Ν Υ Υ Υ Υ Internal Recycle Ν Υ Υ Υ Ν Υ Υ **Inline Pressure Sifter** Ν Υ Υ Υ Ν Ν Ν **Explosion Proof** Υ Υ Υ Υ Υ Υ Υ **ATEX** Υ Υ Υ Υ Υ Υ Υ Υ Υ **3A Sanitary** Υ Υ Υ Υ Υ Υ Υ Υ Ν **BISSC** Υ Υ Υ Υ Υ Υ Υ Υ Υ CE Υ Υ Υ Υ Υ Υ Υ Υ Υ

Versatile. Powerful. Precise.

CSA

Kason's VIBROSCREEN Circular Vibratory Screeners and Separators help cut labor costs and speed up crucial processes by screening, separating and sifting products of varying capacities through batch or continuous operations.

Υ

Υ

Υ

Υ

Υ

Υ

Designed and constructed to industrial, food, dairy or pharmaceutical standards

Υ

- Enclosed, dust-free operation
- Heavy-duty construction for continuous operation

Υ

Υ

Available in single and multiple deck designs



kason

CENTRI-SIFTER

The Centrifugal Sifter

Made to Do More With Less



Scan For More Information

Increase throughput by 30% without wasting more space, labor or time.

We design our centrifugal sifters and separators to handle a wide range of applications, such as screening powders and granular materials, continuous scalping of dry or moist materials, dewatering, and separating liquids and solids.



Save More Floor Space



Lower Labor and Maintenance Costs



Maximize Throughput

Ideal Machine For



Dewatering



Sifting



Screening



Separating



Scalping



Flexible. Dependable. Quality.

Doing more with less - it's what Kason Centri-Sifters do best.

Now you can process more powdered material, more bulk solids and more slurries without sacrificing your valuable floorspace, labor or time. Designed for simple, one-person operation and maintenance, our centrifugal sifters include 6 standard models to include smaller footprints than the competition.

	KASON CENTRIFUGAL SIFTER MATRIX									
		Kason Centri-Sifter Model								
		C	Our smallest si	fter		Our large	st sifter			
	Centri-Sifter Model Code	со	GO	ко	MO/M1	YO	хо			
	3 Bearing EZ Clean	N	Υ	Υ	Y	Υ	Y			
	Cantilever EZ Clean	Υ	Y	Y	Y	Y	Y			
S	Drive Type	Direct Only	Direct or Belt	Direct or Belt	Direct or Belt	Direct or Belt	Belt Only			
NOIL	Bag Dump Station	N	Υ	Y	Y	Y	Y			
CENTRI-SIFTER OPTIONS	Twin Ultra-High Capacity	N	N	Υ	Y	Y	Y			
I-SIFT	Low-Profile	Υ	Υ	Υ	Υ	Υ	Y			
ENTR	Quick-Clean (Sanitary)	Υ	Υ	Υ	Υ	Υ	Y			
	Clean In Place (CIP)	Υ	Υ	Υ	Y	Υ	Y			
	Anti-Blinding Device	Υ	Υ	Υ	Υ	Υ	Y			
	Inline Pressure Sifter	N	Υ	Υ	Υ	Υ	Y			
	Explosion Proof	Υ	Υ	Υ	Υ	Υ	Υ			
NCE	ATEX	Υ	Υ	Y	Y	Y	Y			
COMPLIANCE	BISSC	Y	Υ	Y	Y	Y	Y			
CO	CE	Y	Υ	Y	Y	Y	Υ			
	CSA	Y	Y	Y	Y	Y	Y			
FLOW RATES*	Dry Pounds per Hour	1-1,000 lbs. (.45-454 kg)	300-2,000 lbs. (136-907 kg)	2,000-6,000 lbs. (136-2,722 kg)	6,000-15,000 lbs. (2,722-6,804 kg)	10,000-30,000 lbs. (4,536-13,608 kg)	30,000-60,000 lbs. (13,608-27,216 kg)			
FLOW	Wet Gallons per Hour	N/A	1-10 gal. (3.8-37.9 L)	10-30 gal. (37.9-113.6 L)	10-50 gal. (37.9-189.3 L)	30-200 gal. (113.6-757.1 L)	200-300 gal. (757.1-1,135.6 L)			

All Kason centrifugal sifters, screeners and separators are constructed of stainless steel with optional sanitary finishes suitable for pharmaceutical, food and dairy applications, as well as industrial applications involving frequent screen changes, inspections or runs of multiple materials with no cross-contamination.

Perf plates down to 10 mesh equivalent

Wedgewire down to 40 mesh equivalent (dry) 150 mesh (wet)

^{*} Flow rate capabilities should be considered as a guide when optimally configured as rates will vary by application. Additionally, a twin (ultra-high capacity) unit will roughly double throughput.



kason

VIBRO-BED Fluid Bed Processor Spec Sheet

Compact, Cost-Saving Equipment That Packs a HIGH-END PUNCH



Scan For More Information



Circular bed design uses 100% of surface area to optimize airflow



Save More Floor Space



Speed Up Drying Time



Reduce Cleaning and Downtime

Ideal Machine For



Drying



Cooling



Scalping



Agglomerating



Moisturizing



De-Dusting



De-Agglomerating

				Kason VIBRO	-BED Proces	sor Diamete	r			
		Our smallest bed diameter				Jon Blamete	Our largest bed diameter			
	NOMINAL BED DIAMETER (INCHES)	24	30	40	48	60	72	84		
	SINGLE DECK	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	NOMINAL AIR FLOW RATES (SCFM)	500-1000	500-1600	1700-2500	1700-4000	3300-6000	4000-9000	4800-12000		
e	ELECTRIC	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
HEATER PACKAGE	NATURAL GAS	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
PA	STEAM	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	COOLING COIL	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
CE	EXPLOSION PROOF	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
COMPLIANCE	CE	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
MPL	CSA	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
8	UL	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	EZ AIRLIFT	N	Υ	Υ	Υ	Υ	Υ	Υ		
	EXHAUST RECYCLING	N	N	N	Υ	Υ	Υ	Υ		
	CLEAN-IN PLACE	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	QUICK CLEAN	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	SANITARY	Υ	Υ	Υ	Υ	Υ	Y	Υ		
	AGGLOMERATOR OPTION	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
S	DUST COLLECTOR	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
OPTIONS	CYCLONE"	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
o o	8" ROTARY AIRLOCK	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	SLIDEGATE	Υ	Υ	Υ	Υ	Υ	Y	Υ		
	MANUAL PLOUGH GATE	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	PNEUMATIC PLOUGH GATE	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	WIER	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	CASTERS	Υ	Υ	Υ	Υ	N	N	N		
	CONTROL PANEL	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
	EXPECTED THROUGHPUT RANGES"	UP TO 250 LB/HR	UP TO 500 LB/HR	UP TO 800 LB/HR	UP TO 1300 LB/HR	UP TO 1800 LB/HR	UP TO 2500 LB/HR	UP TO 4000 LB/HR		
	NOMINAL AIR FLOW RATES (SCFM)	500-1000	500-1600	1700-2500	1700-4000	3300-6000	4000-9000	4800-12000		

 $^{^{\}ast}$ Kason only supplying explosion rated components, customer responsible for all suppression

STRONGER, LIGHTER & MORE EFFICIENT

The compact, circular design of Kason's VIBRO-BED makes it easier to achieve consistency and save on energy and maintenance costs than traditional rectangular-shaped fluid bed processors.

An inherently stronger and lighter construction also makes our fluid bed processors faster to build — and finish to sanitary standards. That means better lead times and easier installs for operations (batch or continuous) looking to dry, cool or moisturize bulk foods, pharmaceuticals or chemicals.





^{**} Cyclone not available with agglomerator

^{***} Rates subject to vary depending on material and application





CROSS-FLO

Static Sieve Screeners & Separators



Scan For More Information

Higher rates, lower maintenance with CROSS-FLO.

Screen and separate product at ultra-high rates, save on energy and lower maintenance costs with a Kason CROSS-FLO Static Sieve Screener or Separator.



No Moving Parts Keeps Maintenance Time and Cost at a Minimum



No Electrical Drive/Screen Changes Keep Operational Costs Low



High-Rate Screening Even with Corrosive and Abrasive Materials

Ideal Machine For



Sifting



Screening



Separating

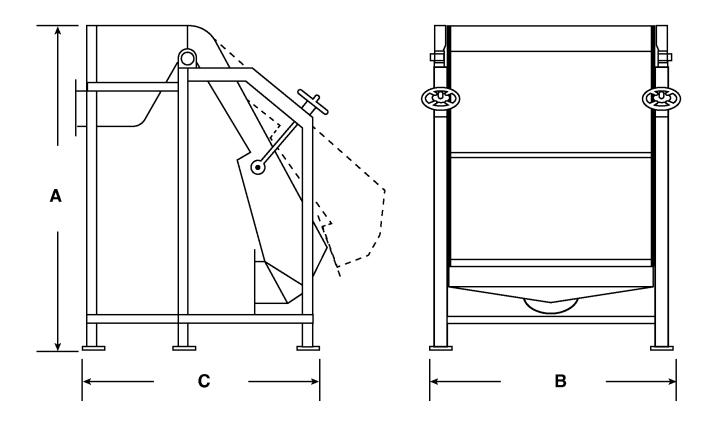


Scalping



Dewatering





KASON CROSS-FLO SIEVE NOMINAL DIMENSIONS								
Model	A	В	с					
CF 2430	84" (213.4 cm)	33" (83.2 cm)	54" (137.2 cm)					
CF 3630	84" (213.4 cm)	44" (117.8 cm)	54" (137.2 cm)					
CF 4854	105" (266.7 cm)	56" (142.2 cm)	67" (170.2 cm)					
CF 6054	105" (266.7 cm)	68" (172.2 cm)	67" (170.2 cm)					
CF 7254	105" (266.7 cm)	80" (203.2 cm)	67" (170.2 cm)					

Faster. Adjustable. Dependable.

Scalp, sift, separate, screen and dewater faster than ever with a reliable Kason CROSS-FLO Static Sieve Screener or Separator. CROSS-FLO machines are designed to save space and cost with simple designs and mechanics that require low maintenance and zero energy consumption while maintaining outstanding performance and speed.

- Freestanding to save floor space
- Corrosion and abrasion resistance
- Fully adjustable decks

- Outstanding performance in the most challenging applications
- Easily modified to meet any requirement





CONE MILLS

Conical milling for consistent particle size reduction



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When precision matters in material processing.

Our cone mills offer gentle, cost-effective and precise wet and dry milling, pre-milling, preconditioning, granulating, and de-agglomeration of materials that are fatty, heat-sensitive, sticky, moist or fragile.



Gentle and Precise for Accurate Sizing of Materials



Wide Range of Interchangeable Grinding Media and Tooling Options for Flexibility



Operator-Friendly Access Points for Easy and Safe Cleaning, Low Noise and Heat Generation

Ideal Machine For

- Size Reduction
- Granulating

- De-Agglomeration
- Milling

Preconditioning



CONE MILL APPLICATIONS

Model Number	Product	Throughput lbs (kg)/hr	Application		
CGM-150	Pigments-De-agglomeration	462.9 lbs. (210 kg)/hr	1mm Round Hole Cone, Standard Beater		
CGM-150	Various Food Flavours	154.3 lbs. (70 kg)/hr	3mm Round Hole Cone, Standard Beater		
CGM-250	Ammonium Chloride	440.9 lbs. (200 kg)/hr	2mm Round Hole Cone, Low Bar Beater		
CGM-250	Reject Biscuits Regrind	573.2 lbs. (260 kg)/hr	6mm Square Hole Cone, Standard Beater		
CGM-350	Cereal Flake	2,204.62 lbs. (1,000 kg)/hr	3mm Round Hole Cone, Standard Beater		
CGM-350	Extruded Maize & Buckwheat	925.9 lbs. (420 kg)/hr	2mm Raised Hole Cone, Standard Beater		
CGM-550	Milk Powder	17,196.1 lbs. (7,800 kg)/hr	4mm Round Hole Cone, Low Bar Beater		
CGM-550	Lactose & Whey Permeate	9,920.8 lbs. (4,500 kg)/hr	3mm Round Hole Cone, Low Bar Beater		
CGM-750	Mineral Supplements	39,683.2 lbs. (18,000 kg)/hr	5mm Round Hole Cone, Low Bar Beater		
CGM-750	Various Malted Cereals	3,218.7 lbs. (1,460 kg)/hr	1.5mm Round Hole Cone, 4 arm Beater		

Precise. Simple-to-Use. Flexible.

Experience the flexible, cost-effective way to gently and precisely reduce material size to 125-250 microns. With a space-saving and operator-friendly design, Kason Cone Mills can be easily adapted to satisfy specific requirements for food, pharmaceutical, powder processing and other related industries.

- Made from AISI 304L and 316L, Hastelloy and other special alloys
- Choose between gravity-fed or vacuum conveying systems
- A wide selection of drive options available
- An extensive range of conical screens are offered for different applications
- Reduction in dust generation and product build-up during operation
- Sanitary construction for food, chemical, pharmaceutical and ATEX applications

Kason Aftermarket Parts & Service

Get the Parts You Need Fast

When you need parts or service for screeners, sifters, separators and other types of material processing equipment, Kason can get you what you need in a moment's notice.

Keep your machine producing like new for longer by partnering with one of the most trusted names in industrial processing equipment.

Scan For More Information







- Adaptors
- Anti-blinding devices
- Backing plates
- Bearings
- Blades and cutters
- Circular bases
- Clamp ring assemblies
- Control panel components
- Drives
- Ducts
- Filters
- Flexible connectors/ flexible socks
- Frames
- Gaskets (food-grade)

- Gears
- Housings
- Hoses
- Motors
- Motor support tables
- Nuts and bolts
- Pumps
- Replacement roundscreens
- Rotor assemblies
- Safety railings
- Seal rings
- Shaft assemblies
- Side cutters
- Topside wipers
- Valves



Have Questions? Call 1.973.467.8140

Or visit kason.com

Kason Screen Replacement

Helps You Keep Your Operation Running Smoothly

Don't compromise your ability to efficiently separate and classify materials. Keep production rates high and processing times low with Kason's K-Series screen replacement program.





Round Vibratory Screens

5 types of screens from 18 to 100 in. (457 to 2,540 mm) in diameter for all makes and models of circular vibratory screeners.

K-Dura round screens for general purpose applications

K-Strong round screens for high material loadings

K-Sani round screens for 3-A, FDA, USDA and cGMP applications

K-Klean round self-cleaning screens

K-Perf round perforated plate screens for maximum durability



Centrifugal Sifter Screens

2 types of replacement screens for all makes and models of centrifugal sifters.

K-Centri cylindrical screens with durable woven wire or synthetic screen mesh for general purpose applications

K-Duracyl cylindrical screens with heavy duty wedgewire or perforated plate screens for severe-duty jobs involving high material loadings, abrasive materials, high- and low-temperature conditions and corrosive environments

Screen Material Options:

Single or double mesh designs

#304 stainless, #316 corrosion-resistant stainless, magnetic #430 stainless, exotic alloys (e.g. duplex, Hastelloy*, Monel* or Alloy20) and synthetics (e.g. nylon, polyester and polypropylene) available



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HOW KASON MAKES THINGS EASY FOR YOU



Preventative Maintenance
Avoid Expensive Repairs
and Downtime



Operator Training
Educate Staff on Running and
Maintaining Equipment



Equipment OptimizationMake Cost-Saving
Efficiency Adjustments



Commissioning Equipment
Certify Your Equipment Meets
Specifications



Installation Supervision
Eliminate Costly
Pre-Production Errors



Refurbishment and Retrofits Repair or Upgrade Your Equipment



INTERESTED IN FREE TESTING OF YOUR APPLICATION WITH KASON?

Ask about our Iowa, Germany or UK-based facilities, where you can test your application in our equipment before you buy. Our experienced application engineers help you get the most out of your process and provide quality analysis to show you're getting a dependable machine.



Scan the QR code to learn more about Kason's Testing Services.



PRIMARY INDUSTRIES WE SERVE

There are many factors that go into selecting the right machine for your application – everything from what material you're processing to whether you need it to be pharmaceutical-grade. But Marion's expert application engineers work with you every step of the way, making sure you get a machine that's a perfect fit for your specifications and production needs.



Food & Beverage



Pharmaceutical



Nutraceutical



Chemical Processing



Agricultural



Minerals



Biomass



Plastics

TRUSTED BY TOP MANUFACTURERS



































Horizontal Mixers



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Keep things moving with Marion mixers.

Marion Horizontal Mixers offer the perfect blend between speed and blend quality. Because the machine is built specifically for your application, you achieve faster production while maintaining high blend quality.







Fast Mixing Rates with High Blend Quality



Superior Sanitation and Cleanability



Available for Both Continuous and Batch Mixing

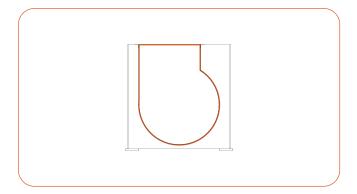
Ideal Machine For

- Mixing
- Continuous Mixing
- Blending
- Batch Mixing

Slurries & Viscous Materials

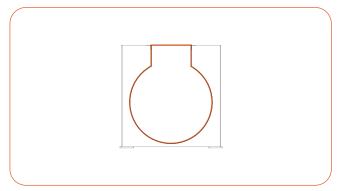


MIXER TROUGH DESIGN OPTIONS



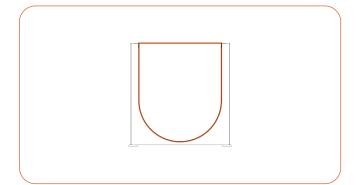
Semi-Cylindrical Trough

- · Best for pastes or slurries
- Reduces degradation of fragile ingredients
- Allows mixing of oversized materials
- · Good choice for mixing sticky or tacky material



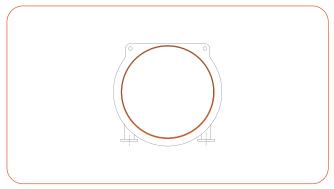
Semi-Semi-Cylindrical Trough

- Best for liquids and slurries
- Ideal for applications that require vacuum to be pulled
- Rated for up to 29 inHg at 14 psig.
- Maximizes product contact for jacketed mixers that need heating or cooling.



U-Shaped Trough

- Largest production capacity
- Easiest to clean
- · Most commonly used



Full Cylindrical Trough

- Agitator sweeps 360 degrees of rotation
- · Largest contact surface area for heating or cooling
- Good fit for vacuum or low pressure applications

Horizontal Mixer Specifications

Continuous Mixers	8 standard models	1-205 ft³ (.03-5.8 m³) working capacity per minute.
Batch Mixers	23 standard models	1.5-600 ft ³ (.04-17 m ³) working capacity per minute.

Speed. Quality. Durability.

For more than 85 years, Marion has set the standard for mixing. With a wide range of specs available – including customizing for any of your facility's restraints or requirements – Marion Horizontal Mixers are built to give you consistent results for decades.

Don't let production timelines and throughput goals compromise your product quality. Because of their high-quality construction, Marion's Horizontal Mixers are built for the long haul.

Other Features:

- Agitator options available for specific applications
- On-site installation support available
- Material and finishes available to meet all sanitary or other requirements



Custom Design Options



Scan For More Information

Slash mixing times in half with Marion.

Customizing mixing equipment for your specific application may cost a bit more up front, but in the long term the efficiencies add up to lower operational costs and a better quality product.

How to Customize Your Industrial Mixer

Chopper

- Intense cutting action to assist in blending
- Tulip, knife blade or hybrid tulip/knife choices

Discharge

- Hinged contour
- Knife
- Roller gate
- Drop-bottom
- Butterfly valve

Mainshaft Seals

- Stuffing box
- Split design

- Flush hinged
- Mechanical

Additional Features

- Drives specifically selected
- Elevated work platforms
- Smart Air (mainshaft seals)
- 3-A compliant design
- Hoppers (stationary or agitated)

Integral dimpled iackets

- Controls
- Load cells Sifting

Counterweighted Doors

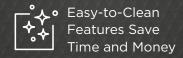
- Ergonomic assist for easy access
- Solid weight (no hollow tubes)

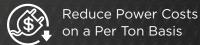
Spray

- Spray or inject designs
- Sanitary and removable for cleaning available



Four Agitator Design Options Available







MIXER AGITATOR DESIGN OPTIONS



Paddle Agitator

- Designed for gentle mixing of solids of dissimilar size, shape, density, and viscosity.
- Materials travel in an end-to-middle, 3D figure-eight pattern for consistent mixing.
- Available welded, bolted, or a combination of both depending on the application.



Ribbon Agitator

- Ideal for low-density, free-flowing materials that are similar size, shape, and density.
- Shearing action is a good fit for mixes with small agglomerates.
- Double ribbon: No gaps between flightings eliminates potential for pockets of unmixed or undermixed material.



Fluidizing Agitator

- Uses large paddles with dual-directional sweeping movements to create a fluidizing bed.
- Minimizes direct contact with paddles because air is continually pushed both outwards and inwards.
- Fast processing, low maintenance and easy cleaning.
- Food-grade finishes available for sanitary design requirements.



Hybrid Agitator

- Combines tumbling action of paddle agitators with rolling pattern of ribbon mixers to create a double-reversing effect.
- Ideal for materials that tend to mound in the center of the mixer.
- Creates more even mixing and product levels inside the trough during mixing.
- Can be customized with paddle mixers or ribbon agitators on the inside or outside.

Horizontal Mixer Specifications

Continuous Mixers	8 standard models	1-205 ft ³ (.03-5.8 m ³) working capacity per minute.
Batch Mixers	23 standard models	1.5-600 ft ³ (.04-17 m ³) working capacity per minute.

Customize Your Equipment with Our Expert Application Engineers

Our application engineers have an average 25 years of experience in the field and can work with you from start to finish to customize your equipment for your specific application.



V Cone Blender



Scan For More Information

Simple design for quick blends, easy discharge and cleaning.

Embrace the simple yet durable construction of the Marion V-Cone Blender to efficiently blend your products with uniform and gentle mixing. The distinctive V shape not only facilitates cleanliness, but it also minimizes the need for frequent maintenance.



Offers Precision Tooling and Finish for Maximum Cleanability



V Shape Promotes Drainage and Discharge for Improved Cleanliness



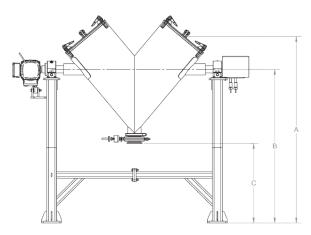
Cost-efficient, High-Quality Construction, Fit and Finish

Ideal Machine For

- Mixing
- Delicate Materials

- Blending
- Abrasive Solids





V Cone Blender Specifications

Model Number	Working Capacity (ft³)	Working Capacity (L)	Inlet Height (A)	Centerline Height (B)	Discharge Height (C)	Discharge Diameter (in)	НР
VC25	.25 ft ³ (.007 m ³)	1.8 gal. (7 L)	29 in. (73.7 cm)	20 in. (50.8 cm)	24 in. (61 cm)	4 in. (10.2 cm)	0.75
VC50	.5 ft ³ (.014 m ³)	3.7 gal. (14 L)	30 in. (76.2 cm)	20 in. (50.8 cm)	24 in. (61 cm)	4 in. (10.2 cm)	1
VC-1.5	1.5 ft ³ (.042 m ³)	10.6 gal. (40 L)	52 in. (132.1 cm)	39 in. (99.1 cm)	24 in. (61 cm)	4 in. (10.2 cm)	1.5
VC-2.5	2.5 ft ³ (.071 m ³)	18.5 gal. (70 L)	56 in. (142.3 cm)	41 in. (104.1 cm)	24 in. (61 cm)	4 in. (10.2 cm)	2
VC-5	5 ft³ (.14 m³)	37 gal. (140 L)	64 in. (162.6 cm)	46 in. (116.8 cm)	24 in. (61 cm)	4 in. (10.2 cm)	3
VC-10	10 ft ³ (.28 m ³)	72.6 gal. (275 L)	86 in. (218.4 cm)	64 in. (162.6 cm)	36 in. (91.4 cm)	6 in. (15.3 cm)	5
VC-20	20 ft3 (.57 m3)	145.3 gal. (550 L)	97 in. (246.4 cm)	69 in. (175.3 cm)	36 in. (91.4 cm)	6 in. (15.3 cm)	10
VC-30	30 ft ³ (.85 m ³)	224.5 gal. (850 L)	106 in. (269.24 cm)	74 in. (188 cm)	36 in. (91.4 cm)	8 in. (20.3 cm)	10
VC-40	40 ft ³ (1.13 m ³)	297.2 gal. (1,125 L)	113 in. (287.02 cm)	77 in. (195.6 cm)	36 in. (91.4 cm)	8 in. (20.3 cm)	15
VC-50	50 ft ³ (1.41 m ³)	369.8 gal. (1,400 L)	117 in. (297.2 cm)	79 in. (201 cm)	36 in. (91.4 cm)	8 in. (20.3 cm)	15
VC-60	60 ft ³ (1.70 m ³)	449.1 gal. (1,700 L)	123 in. (312.4 cm)	83 in. (210.8 cm)	36 in. (91.4 cm)	10 in. (25.4 cm)	20
VC-75	75 ft³ (2.12 m³)	561.4 gal. (2,125 L)	128 in. (325.1 cm)	85 in. (215.9 cm)	36 in. (91.4 cm)	10 in. (25.4 cm)	25

Simple. Effective. Clean.

The V Cone Blender is a simple tumble mixer designed to quickly blend materials. The V shape design allows the blender to rotate on its axis to achieve even and consistent mixtures without the use of internal moving parts. This design prevents the accumulation of product over time, which can be a costly and time-consuming issue to address.

Other Features:

- Sanitary design featuring food-grade materials
- Optional extended cone for thorough blending
- Optional intensifiers to break things up quickly
- Guards and barriers for operator safety
- Minimized vibration using sand ports in stand
- Comparable price point for higher quality
- Customizable design to meet applicationspecific requirements
- Chopper options to blend and disperse in same machine



Double-Cone Blender



Scan For More Information

Rapid, low-impact mixing at its best for abrasive solids and semi-dry materials.

Marion Double-Cone Blenders use revolution and a simple design to promote highly uniform mixes especially with abrasive solids and semi-dry materials.



Rapid, Low-Impact Blending



No Moving Parts Means Less Maintenance and Cleaning



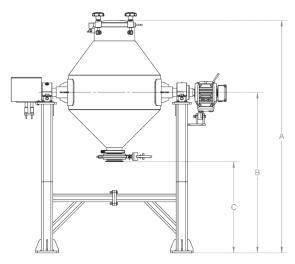
Easy Discharge and Drainage

Ideal Machine For

- Blending product with other trace materials, abrasive solids and semi-dry materials
 - Batch Mixing

Delumping





Double-Cone Blender Specifications

Model Number	Working Capacity (ft³)	Working Capacity (L)	Inlet Height (A)	Centerline Height (B)	Discharge Height (C)	Inlet Diameter	Discharge Diameter	НР
DC25	.25 ft ³ (.007 m ³)	1.8 gal. (7 L)	24 in. (61 cm)	34 in. (86.4 cm)	24 in. (61 cm)	6	4	0.75
DC50	.5 ft ³ (.014 m ³)	3.7 gal. (14 L)	45 in. (114.3 cm)	36 in. (91.4 cm)	24 in. (61 cm)	6	4	1
DC-1.5	1.5 ft ³ (.042 m ³)	10.6 gal. (40 L)	53 in. (134.6 cm)	40 in. (101.6 cm)	24 in. (61 cm)	8	4	1.5
DC-2.5	2.5 ft ³ (.071 m ³)	18.5 gal. (70 L)	62 in. (157.5 cm)	43 in. (109.2 cm)	24 in. (61 cm)	10	4	2
DC-5	5 ft ³ (.14 m ³)	37 gal. (140 L)	69 in. (175.3 cm)	47 in. (119.4 cm)	24 in. (61 cm)	10	4	3
DC-10	10 ft ³ (.28 m ³)	72.6 gal. (275 L)	91 in. (231.1 cm)	63 in. (160 cm)	36 in. (91.4 cm)	18	6	5
DC-20	20 ft3 (.57 m3)	145.3 gal. (550 L)	104 in. (264.2 cm)	70 in. (177.8 cm)	36 in. (91.4 cm)	18	8	10
DC-30	30 ft ³ (.85 m ³)	224.5 gal. (850 L)	112 in. (284.5 cm)	75 in. (190.5 cm)	36 in. (91.4 cm)	18	8	10
DC-40	40 ft ³ (1.13 m ³)	297.2 gal. (1,125 L)	117 in. (297.2 cm)	79 in. (200.7 cm)	36 in. (91.4 cm)	18	8	15
DC-50	50 ft ³ (1.41 m ³)	369.8 gal. (1,400 L)	123 in. (312.4 cm)	82 in. (208.3 cm)	36 in. (91.4 cm)	18	8	15
DC-60	60 ft ³ (1.70 m ³)	449.1 gal. (1,700 L)	129 in. (327.7 cm)	84 in. (213.4 cm)	36 in. (91.4 cm)	18	10	20
DC-75	75 ft ³ (2.12 m ³)	561.4 gal. (2,125 L)	136 in. (345.44 cm)	88 in. (223.5 cm)	36 in. (91.4 cm)	18	10	25

Efficient. Sanitary. Simple.

Blend efficiently and cleanly with a Marion Double-Cone Blender, which uses a straightforward double cone design that employs rotation and gravity to blend materials. No moving parts means less time and money needed on maintenance. The configuration can include load cells to weigh incoming materials for high precision blends.

Other Features:

- Sanitary design featuring food-grade materials
- Optional intensifiers to break things up quickly
- Guards and barriers for operator safety
- Minimized vibration using sand ports in stand
- Comparable price point for higher quality
- Chopper options to blend and disperse in same machine



WaveMix™



Scan For More Information

Shorten processing time from hours to minutes.

With the ability to operate under vacuum, pressure and nitrogen blanket, the versatility of the WaveMix[™] industrial drying system is unmatched by any other thermal processing equipment.



Preserves Color, Nutritional and Chemical Value of Materials



Quick, Efficient Drying Eliminates Material Loss



Sanitary, Easy-Clean Design

Ideal Machine For

- Drying
- Mixing
- Heating
- Processing
- Powder-Drying
- Microbial Reductions
- Low Temperature Drying
- Solvent Removal
- Dehydrating

- Change of State
- Extracting
- Roasting



WaveMix™ Specifications

Capacity	60 ft ³ (18.3 m ³)	100 ft ³ (30.5 m ³)	200 ft ³ (61 m ³)	400 ft ³ (121.9 m ³)
Material Temperature Degree	145-165 °F	145-165 °F	145-165 °F	145-165 °F
	62.78-73.89 °C	62.78-73.89 °C	62.78-73.89 °C	62.78-73.89 °C
Maximum Machine	350 °F	350 °F	350 °F	350 °F
Temperature Degree	176.67 °C	176.67 °C	176.67 °C	176.67 °C
Temperature Sensor	Infrared & RTD	Infrared & RTD	Infrared & RTD	Infrared & RTD
	Measurement	Measurement	Measurement	Measurement
Machine Materials	T304 Stainless Steel	T304 Stainless Steel	T304 Stainless Steel	T304 Stainless Steel
Electrical Requirements	3PH 480V 50/60Hz	3PH 480V 50/60Hz	3PH 480V 50/60Hz	3PH 480V 50/60Hz
Initial Wet Material Weight	600 lbs.	1,000 lbs.	2,000 lbs.	3,000 lbs.
(75% moisture)	(272.2 kg)	(453.6 kg)	(907.2 kg)	(1,360.7 kg)
Rate of Water Removal	188 lbs.	187.5 lbs.	375 lbs.	749.7 lbs.
	(85.3 kg)/hr	(85.0 kg)/hr	(170.1 kg)/hr	(340.1 kg)/hr
Final Dry Material Weight	167 lbs.	298 lbs.	556 lbs.	883 lbs.
(10% moisture)	(75.7 kg)/hr	(135.2 kg)/hr	(252.2 kg)/hr	(400.5 kg)/hr
Total Dry Time (hrs)	2.3	3.85	3.85	2.89
Average Applied Power (kW)	80	80	160	320
Dried Material Rate	72.5 lbs.	72.2 lbs.	144.3 lbs.	288.3 lbs.
	(32.9 kg)/hr	(32.7 kg)/hr	(65.5 kg)/hr	(130.6 kg)/hr
Power Density (W/lb)	133.3 W/lbs.	80 W/lbs.	80 W/lbs.	106.7 W/lbs.
	(293.2 W/kg)	(176.4 W/kg)	(176.4 W/kg)	(233.7 W/kg)

Cost-Effective. Fast. Precise.

The WaveMix™ enables the safe drying of sensitive materials, while maintaining their color, nutritional value, and chemical integrity. This advanced system incorporates microwave, vacuum, and mixing technologies, along with precise temperature controls, to prevent any loss of product due to case hardening, burning, overprocessing, or underprocessing.

Other Features:

- Doesn't heat to dangerous temperatures

 Tight control over temperature
- Nitrogen purging eliminates fire and explosion risk
- Improved batch consistency



Lump Breaker



Scan For More Information

Reduce particle size without causing dust and fines.

The Marion Lump Breaker helps break down products prone to agglomeration and clumping by grinding solids down for further processing. Its compact, low-power and easy-to-clean design ensures inexpensive operation and little downtime between product changes.



Consistent Particle Size for Product Uniformity



Sanitary, Easy-Clean Design with Easily Removable Replaceable Parts



Easy Integration into Existing Production Lines

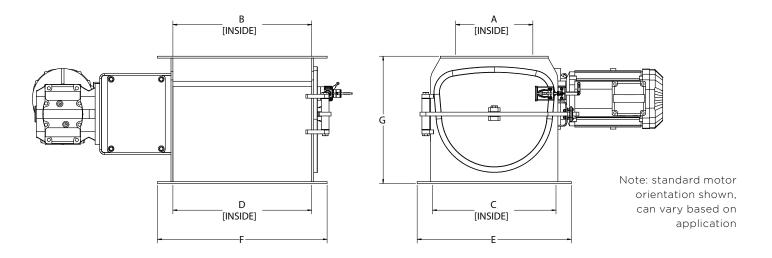
Ideal Machine For

- Breaking
- Grinding

- De-Agglomeration
- De-Clumping

- Reducing
- Sizing





Lump Breaker Specifications

Model Number	Screen Diameter	Inlet Width (A)	Inlet Width (B)	Outlet Width (C)	Outlet Width (D)	Largest Flange Width (E)	Largest Flange Width (F)	Overall Height (G)	НР	*Maximum Throughput (ft³/min)
LB-250	10 in. (25.4 cm)	10 in. (25.4 cm)	18 in. (45.7 cm)	16 in. (40.6 cm)	18 in. (45.7 cm)	20 in. (50.8 cm)	22 in. (55.9 cm)	16.5 in. (41.9 cm)	5	4 ft3 (.11 m3)/ minute
LB-350	14 in. (35.6 cm)	14 in. (35.6 cm)	18 in. (45.7 cm)	20 in. (50.8 cm)	18 in. (45.7 cm)	24 in. (61.0 cm)	22 in. (55.9 cm)	20.5 in. (52.1 cm)	10	6 ft3 (.17 m3)/ mintue
LB-450	18 in. (45.7 cm)	18 in. (45.7 cm)	22 in. (55.9 cm)	26 in. (66.0 cm)	22 in. (55.9 cm)	30 in. (76.2 cm)	26 in. (66.0 cm)	24.5 in. (62.2 cm)	15	10 ft3 (.28 m3)/ minute
LB-550	22 in. (55.9 cm)	22 in. (55.9 cm)	22 in. (55.9 cm)	30 in. (76.2 cm)	22 in. (55.9 cm)	34 in. (86.4 cm)	26 in. (66.0 cm)	28.5 in. (72.4 cm)	20	12 ft3 (.34 m3)/ minute
*Actual throughput will depend on material properties and screen mesh size										

Efficient. Consistent. Dependable.

Prepare your products for the next processing step with Marion's Lump Breaker. This versatile machine breaks down, grinds, and reduces clumping or agglomeration in a range of applications, both before and after mixing in any production system. With its customizable and sanitary design, the Lump Breaker saves on maintenance costs and time while ensuring an extended lifespan.

Other Features:

- Low power consumption
- Customizable hatches, loading hoppers and floor stands
- Available to meet food, pharmaceutical, and industrial safety and sanitary standards
- Long life with easily replaceable parts
- Multiple mesh sizes available
- No special tools required for maintenance

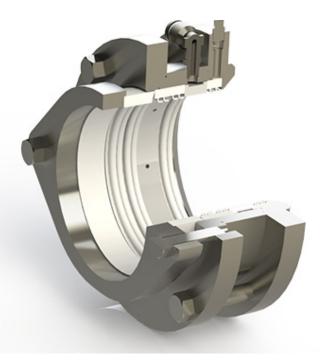
MARION Aftermarket Parts & Service

Get Parts to Run Your Equipment Better, Longer

Marion offers replacement parts for agitators, motors, and other components that undergo wear and tear over time. We offer parts and service to pre-existing Marion and non-Marion machines and mixers. Whether you need new doors, gaskets, seals, agitators or motors, Marion delivers the highest level of service to optimize your equipment.

Scan For More Information





Replacement Parts Include:

- Agitators
- Bag Dumps
- Bearings
- Blades
- Choppers
- Covers/Doors
- Controls
- Discharge Valves
- Drive Trains
- Fluidizing Agitators
- Gaskets

- Hoppers
- Hybrid Paddle/ Ribbon Agitators
- Injection Manifolds
- Load Cells
- Motors
- Paddle Agitators
- Ribbon Agitators
- Seals
- Trough Liners



HOW MARION MAKES THINGS EASY FOR YOU



Preventative Maintenance
Avoid Expensive Repairs
and Downtime



Operator Training
Educate Staff on Running and
Maintaining Equipment



Equipment OptimizationMake Cost-Saving
Efficiency Adjustments



Commissioning Equipment
Certify Your Equipment Meets
Specifications



Installation Supervision
Eliminate Costly
Pre-Production Errors



Refurbishment and Retrofits
Repair or Upgrade Your
Equipment



INTERESTED IN TESTING YOUR APPLICATION WITH MARION?

Ask about our Iowa, Germany or UK-based facilities, where you can test your application in our equipment before you buy. Our experienced application engineers help you get the most out of your process and provide quality analysis to show you're getting a dependable machine.



Scan the QR code to learn more about Marion's Testing Services.