

The logo for MATCON, featuring the word "MATCON" in a bold, sans-serif font with a registered trademark symbol. The letters "M" and "A" are connected, and the "T" has a unique shape. The logo is set against a dark blue background with a large, stylized cone shape that is the central focus of the advertisement.

MATCON[®]

POWDERS, HANDLED.

IBC CONE VALVE TECHNOLOGY

YOUR POWDER HANDLING PROBLEMS.
SOLVED.

Avoid typical powder flow problems
through automatic and controlled
discharge of virtually any powder type.

www.matconibc.com

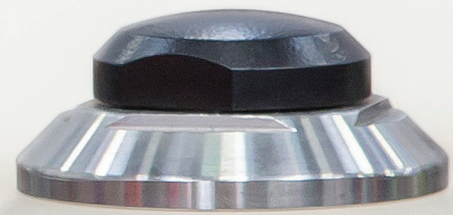


POWDERS, HANDLED.

The Original Cone Valve IBC Manufacturers

Invented, patented and developed by us.
Appreciated by our customers.

A superb discharge device, the Cone Valve overcomes all the typical powder flow problems of bridging, blockages, segregation, flushing and core-flow. It offers automatic and controlled discharge of virtually any powder type, winning where other systems have failed.



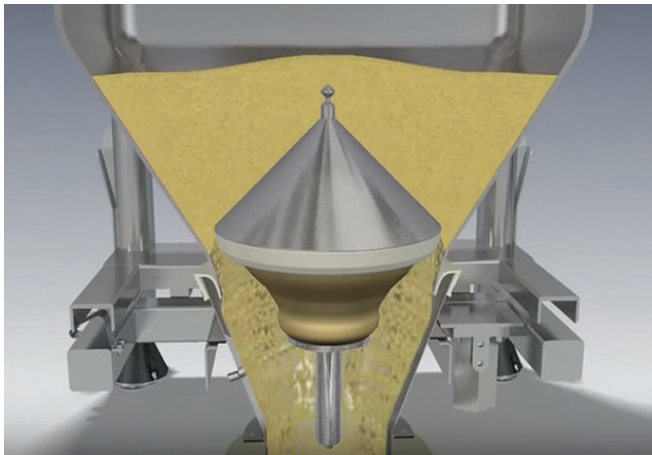
INTRODUCING MATCON
CONE VALVE TECHNOLOGY



THE CONE VALVE ADVANTAGE

- Guaranteed powder flow
- Control of flow
- Prevent segregation
- Automated discharging procedure
- Complete discharge
- Dust-free handling
- Easy-clean, hygienic design
- Direct dosing, no secondary feeders

The Cone Valve is at the heart of the Matcon technology. It can be configured with variable lift heights or levels of vibration to overcome all powder handling issues.



Whatever the material, Cone Valve Technology achieves and maintains a vital homogeneous blend.

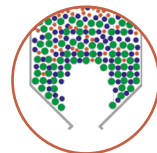
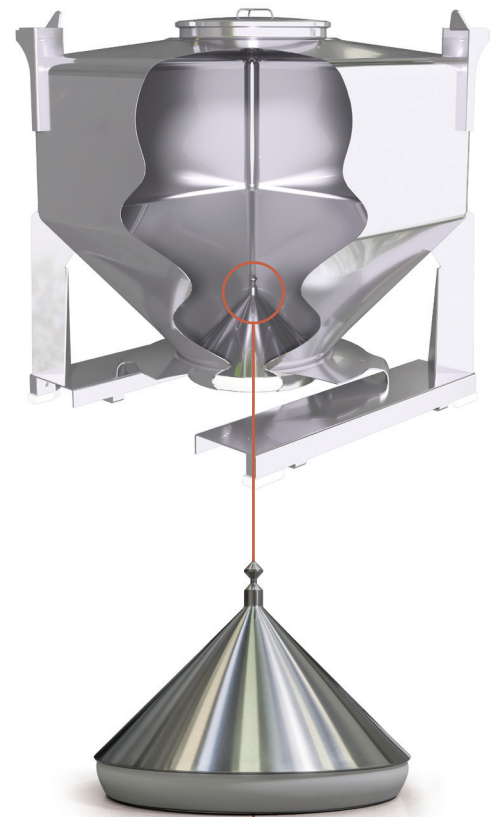
Cohesive materials can be stimulated to flow, where other systems have failed, by the integral cone vibration.

Free-flowing powders can be controlled without the need for additional feeders, even to a specified weight, by use of the variable lift height of the Cone Valve.

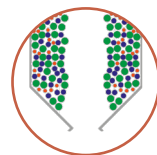
Blended material can be fed to the downstream process with minimised risk of segregation, as the Cone Valve promotes mass-flow of the powder.

Fragile products such as flakes, candy or gum are gently handled. Should it be required, flow can be shut off during discharge without any damage, as the Cone Valve moves with the flow of material.

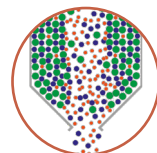
Dust-free handling is achieved through the combination of an outer 'lip-seal' on the discharge station and an 'alpha-beta' coupling to the Cone Valve keeping the system closed at all times.



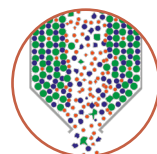
BRIDGING



RAT-HOLING



SEGREGATION



DEGRADATION

AVOID THESE
POWDER HANDLING ISSUES

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A large industrial IBC blending module is shown in a factory setting. The machine is white and has a hopper at the bottom. It is mounted on a pallet. The background is a blue-tinted image of the factory floor.

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POWDERS, HANDLED.

IBC BLENDING MODULE

ELIMINATE CLEANING DOWNTIME.
EVERY TIME.

Mix any recipe, any time, through
fast, efficient, agile blending with
Matcon IBC blending systems.

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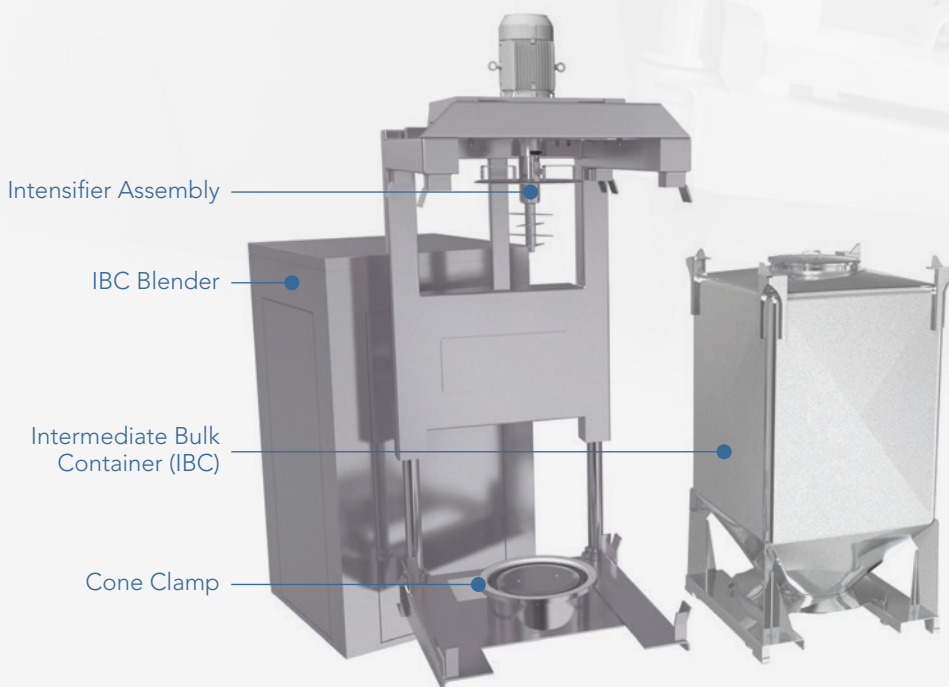


POWDERS, HANDLED.

The Industrial Mixer for fast, efficient, agile blending

Achieve a flexible and efficient mixing process.

Because the IBC is the blending vessel, there is no downtime for cleaning and no risk of cross-contamination. All filling and emptying takes place independent of the blender.



THE MATCON BLENDING ADVANTAGE

System is always blending – filling, emptying and cleaning are done offline

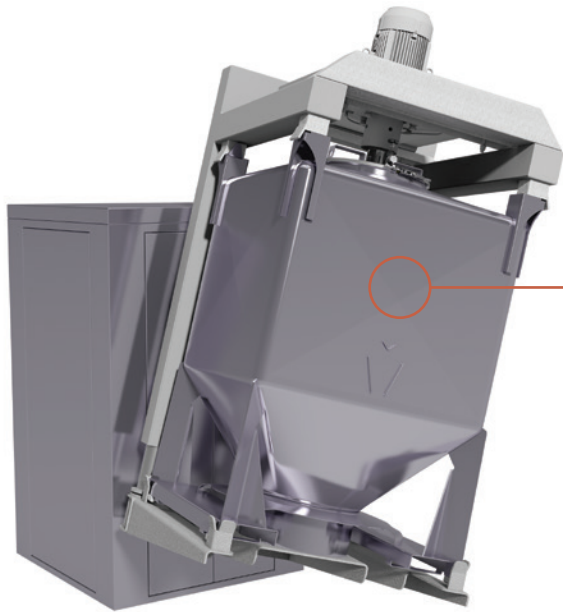
In-bin blending for instant recipe changes without risk of contamination

Wide range of batch sizes give flexibility

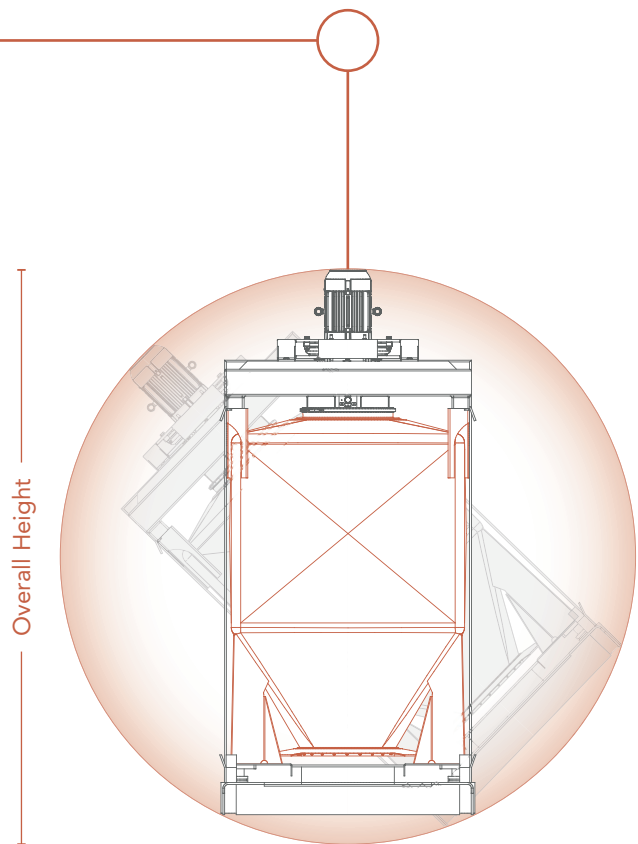
Intensifier package expands blending capability, including liquid addition

Modular solution: factory assembled, proven design, low risk

Comes with interlocked safety cage



The IBC Blending module enables the mixing of any recipe, at any time.



Eliminate the time-consuming cleaning associated with traditional static mixers.

Rapid batch changeovers as there is no product contact with the blender.

No cross-contamination risk as the IBC is the blending vessel and is fully contained.

High OEE rates as IBCs are formulated, emptied and cleaned offline, reducing downtime.

Flexible batch sizes can be blended, as one blender accommodates a multiple of different IBC sizes.

High Shear Intensifier extends the range of blending capabilities.

Asymmetric tumble axis ensures no powder hang up.

Variable rotation speed and mix time to suit recipe needs.

Turning Circle

STRUCTURE SIZES ARE DEPENDENT UPON IBC SIZE

IBC Size	Turning Circle	Overall Height
1000	2839 mm	2912 mm
1500	3104 mm	3185 mm
2000	3373 mm	3517 mm
2500	3900 mm	4000 mm
3100	3769 mm	3938 mm

Measurements based on standard equipment

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POWDERS, HANDLED.

BLENDING WITH HIGH SHEAR

EXTEND BLENDING RANGE.
RELIABLY.

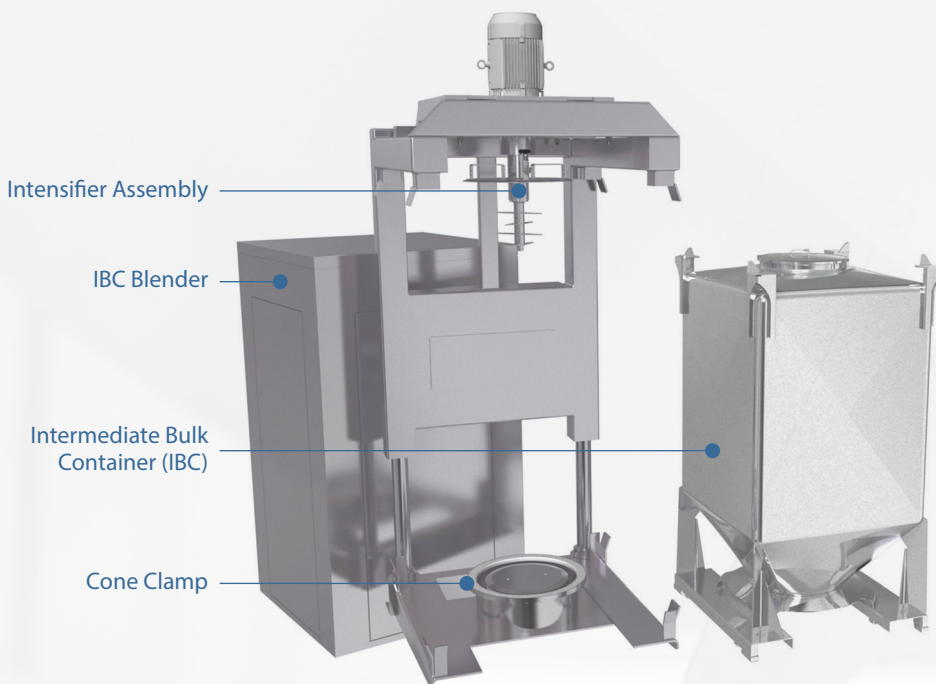
Mix any recipe, any time, through
fast, efficient, agile blending with
Matcon IBC blending systems.

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Adding high shear to the industrial Mixer for effective blending

To extend the range of tumble-blending add in the Intensifier module.

By adding a high shear cutter to the Matcon Blender, recipes can be mixed and materials dispersed which will not blend by flow alone, enabling liquid fats to be incorporated and more cohesive powders to be processed and agglomerated lumps removed.



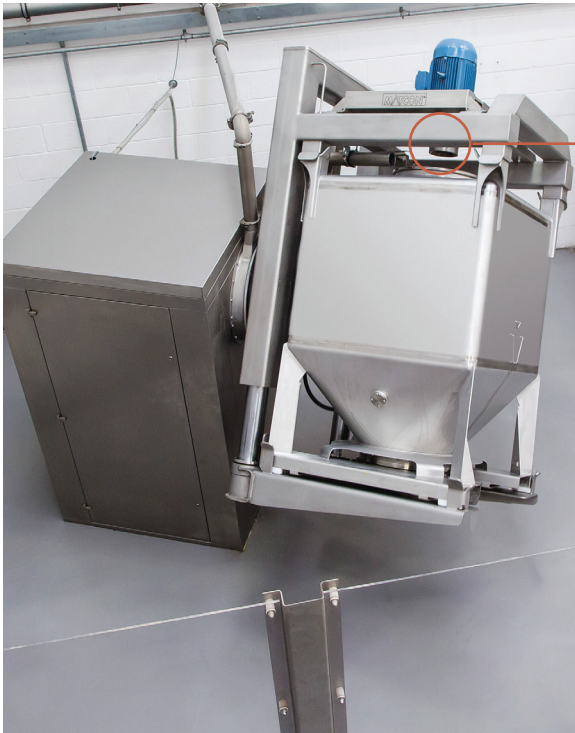
THE MATCON BLENDING WITH INTENSIFIER

High shear cutter blades

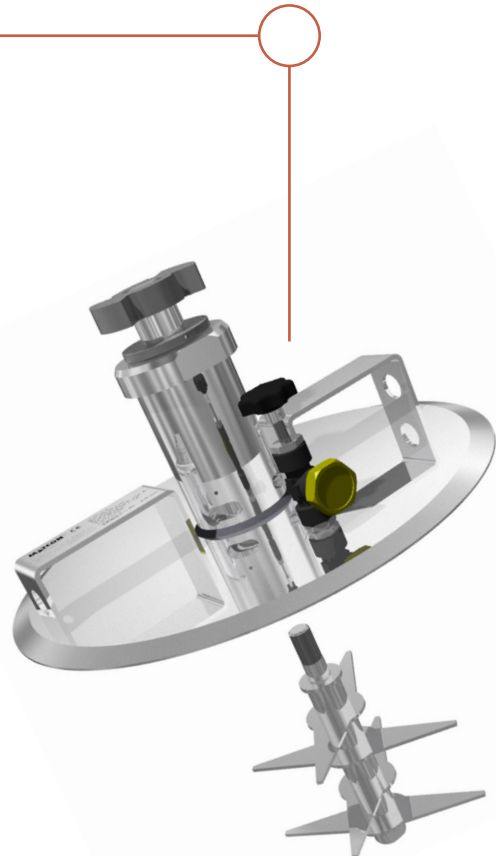
Air-purged Intensifier option for high sugar content recipes

Cleaned off-line

Optional handling trolley



The IBC Blending module enables the mixing of any recipe, at any time



Extend the range of tumble blending with High Shear.

Mix liquids & fats efficiently in single stage blending.

Efficiently disperse micro ingredients ensuring a quality final product.

High shear without heat build up – particles are blended without degradation for a quality final product.

Efficient cleaning off-line with cleaning trolley.



Intensifier Cleaning Trolley

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POWDERS, HANDLED.

IBC CLEANING MODULE

ELIMINATE CLEANING DOWNTIME.
RELIABLY.

Improve productive time by
washing off-line using a
Matcon IBC cleaning system.

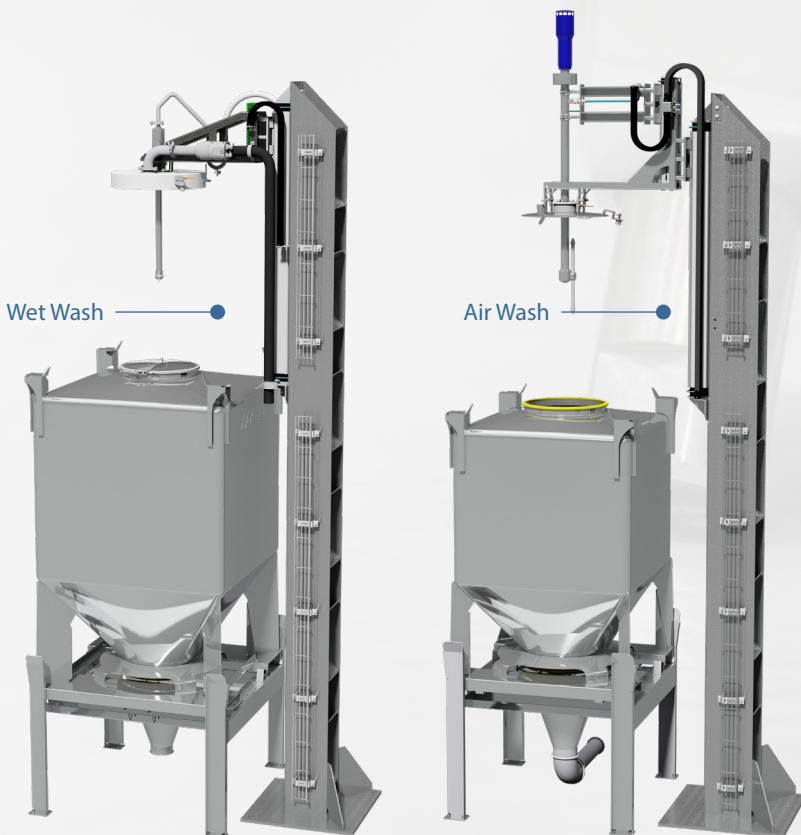
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Reduce system downtime and maximise production

Keep all the manufacturing process steps working whilst IBCs are cleaned off-line.

Because IBCs are taken off for cleaning, there is no need to halt manufacturing.

Simply bring in clean, fresh IBCs to keep the production line working to capacity.



THE MATCON IBC CLEANING MODULE

Cleaning of IBCs off-line to reduce downtime

Systems range from simple manual wash lance to fully automatic operation

High pressure spray removes residual powders from the internal surfaces of the IBCs

Safe, repeatable wash sequences which can be validated for Regulatory Authorities



Eliminate the down-time for cleaning associated with traditional coupled systems.

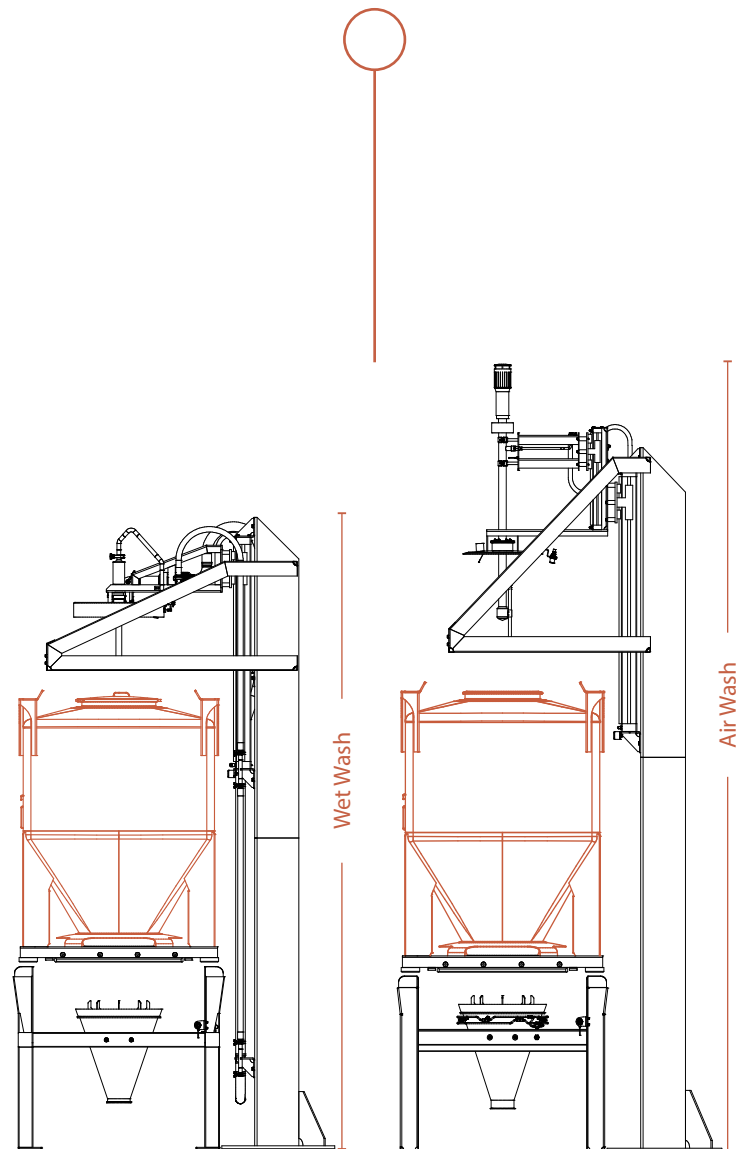
High manufacturing efficiency rates as IBCs are cleaned off-line without causing mixer or manufacturing line down-time.

Simple IBC design enables easy cleaning of the internal surfaces with no risk of cross-contamination.

Air wash capability removes the risk of waterborne bacterial growth associated with using traditional water based systems.

Fully validatable process for approval by Regulatory Authorities.

IBC Cleaning options using either water or air systems



IBC Size	Wet Wash*	Air Wash*
1000	4040 mm	4542 mm
1500	4432 mm	4934 mm
2000	4873 mm	5375 mm
2500	5310 mm	5812 mm

*Approximate overall height measurements based on S11 IBC range.

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AUTOMATED FORMULATION

AUTOMATED RECIPE BATCHING.
RELIABLY DONE.

Formulate multiple recipe batches
directly into IBCs using the
Matcon formulation system.

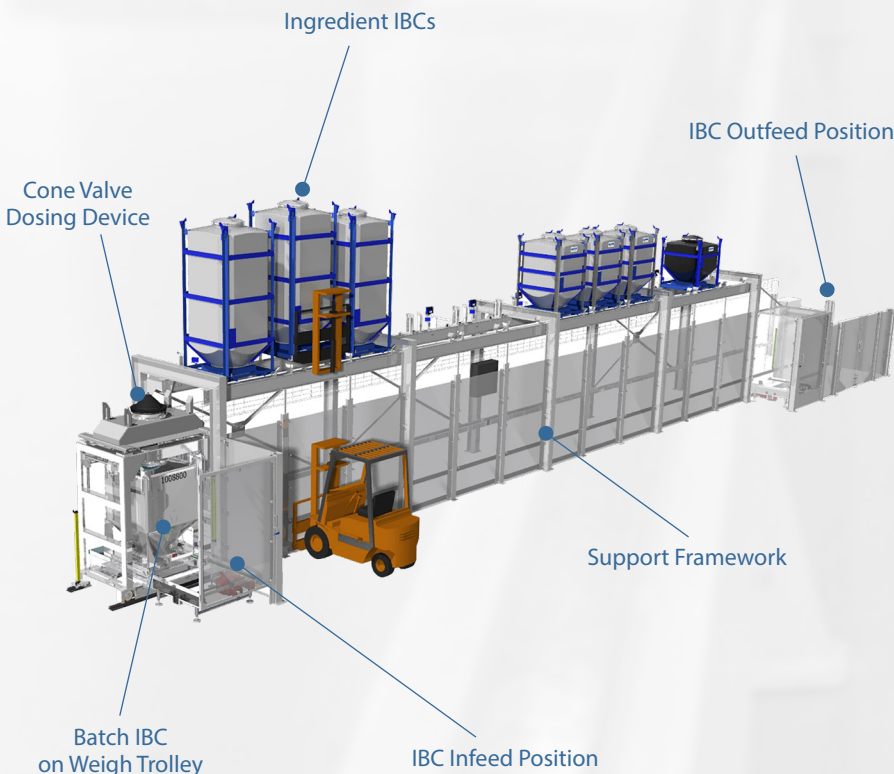
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Achieve reliable recipe formulation every time

Eliminate the risk of human error in recipe formulation.

If you have a large number of ingredients to assemble for each recipe, you can reduce the amount of time spent in weighing and batching by automating the process.

This also reduces the risk of error in measuring or adding ingredients.



THE MATCON IBC FORMULATION MODULE

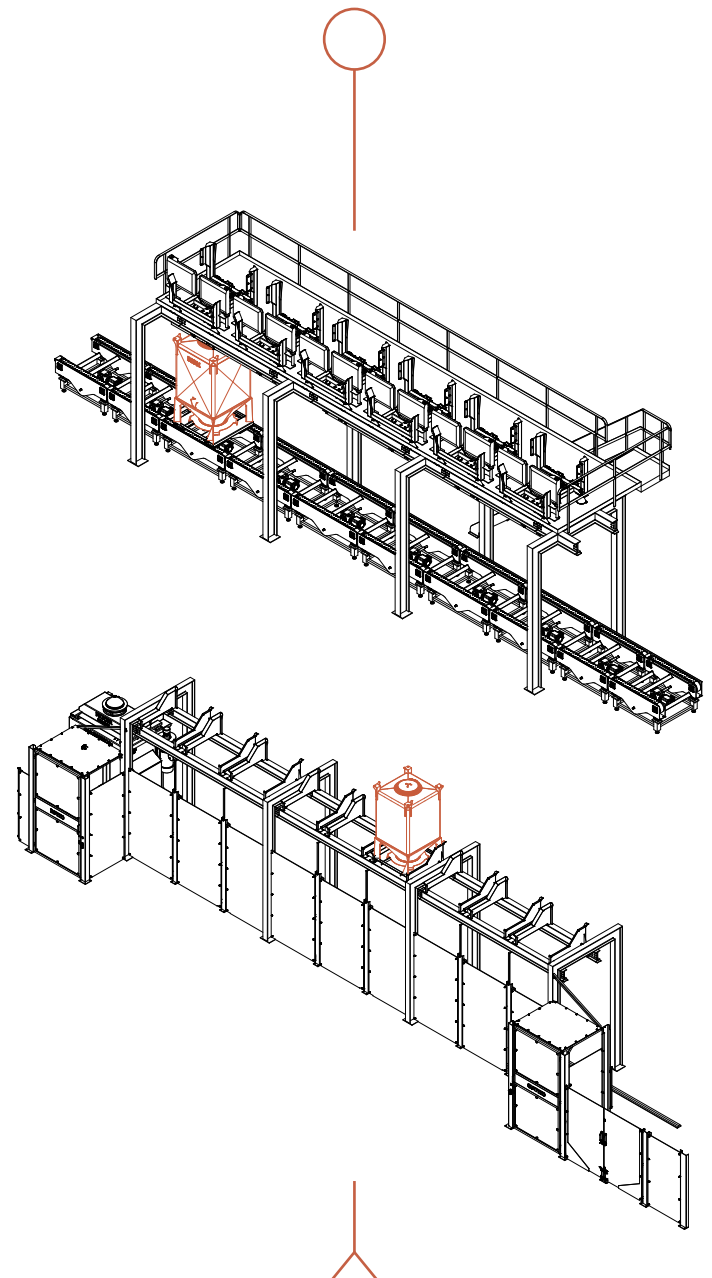
Fully contained transfer of materials for dust-free filling of IBCs off-line

Automated batching – removing the risk of error

Reduces the time spent in weighing and tipping ingredients

Flexible processing system for high throughput requirements

'Ingredient' containers are located on the framework, with 'batch' containers travelling below collecting ingredients according to the batch recipe



Achieve accurate formulation of recipe batches and fast replenishment of ingredients.

Fully contained transfer of materials means that no product is spilt or is leaked, thereby removing the risk of cross-contamination.

Flexibility to deliver multiple recipes from one formulation street.

Reduce the time spent in weighing ingredients and adding to the mixer or container.

Full recipe formulation is possible including majors, minors and micro ingredient additions all on the same line.

High manufacturing efficiency rates as IBCs are formulated off-line and rapidly brought into blending without causing mixer down-time.

EACH SYSTEM IS BESPOKE TO THE THROUGHPUT DEMANDS – THEREFORE THE NUMBER OF INGREDIENT IBCs AND LAYOUT DESIGN WILL VARY

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