



POWDERS, HANDLED.

SELECTING THE IDEAL FACTORY LAYOUT FOR SPORTS NUTRITION MANUFACTURING

In a competitive market place it's important to keep pace with challenging consumer needs. Selecting the right manufacturing system is vital to give you the production capacity and flexibility you need. Here's a guide to help.



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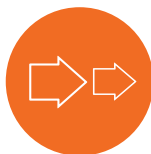
EXPLORE THE OPTIONS



FIXED MIXER
CONVENTIONAL SYSTEM

[CLICK HERE](#)

INTERMEDIATE
DECOUPLED SYSTEM

[CLICK HERE](#)

MATCON IBC
SYSTEM

[CLICK HERE](#)

We explore three different factory layouts, typical reasons behind these factory configurations and the pros and cons for each layout.

Using this document you will be able to determine which is the best fit for your factory and meets your output goals.

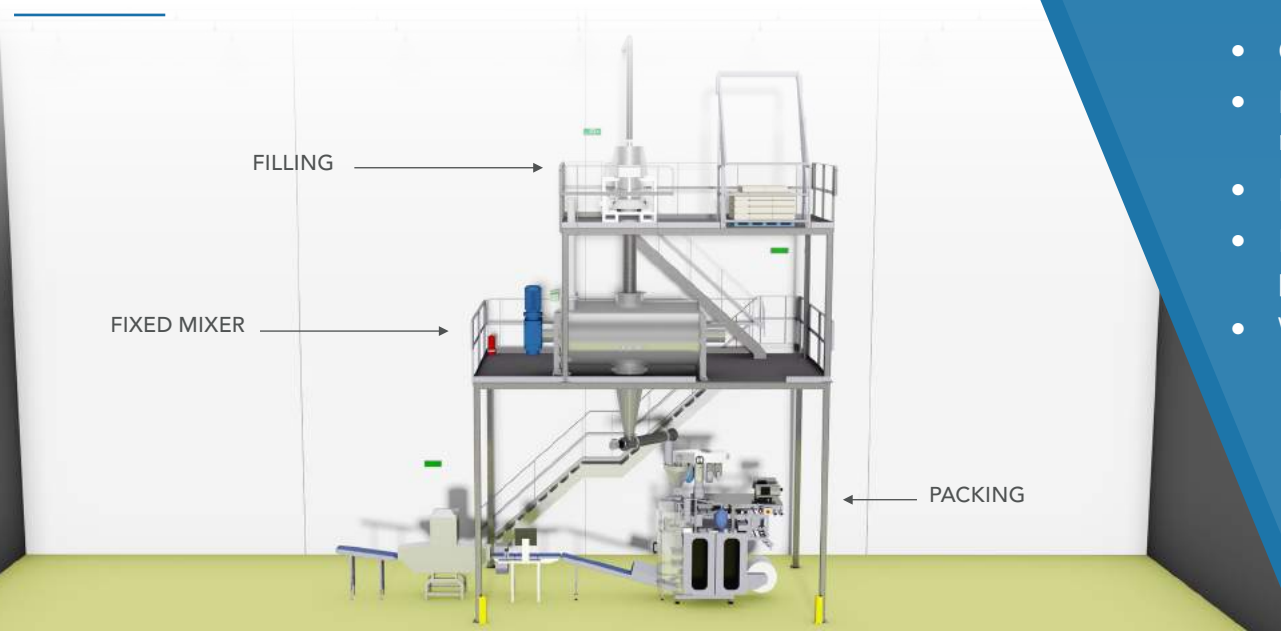
As with all things one size rarely fits all, but these illustrations will help you narrow down your specification.

To get started, click on one of the three mixer icons on the left (or turn to the next page if you have printed the document) to explore each factory layout then read the comparison table at the end of the document to get an idea of how each system compares.



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FIXED MIXER CONVENTIONAL SYSTEM



PROCESS

Fixed mixer close-coupled to formulation and packing

1. Tip directly into FIXED MIXER - mix product
2. Discharge directly into PACKING MACHINE (tubs/pouches)

PROS

- Cheap equipment costs
- Minimal equipment needed
- Low skilled operation
- Large volume batches possible
- Widely available

CONS

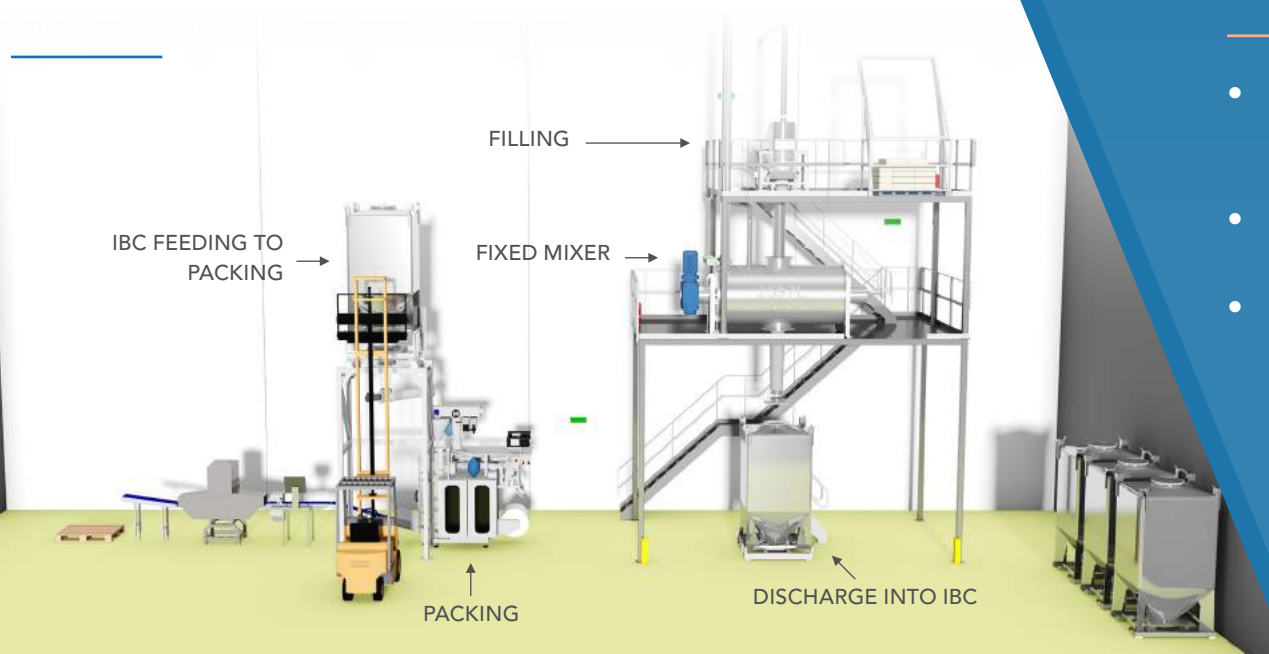
- Poor mixer efficiency due to waiting times for filling, packing and cleaning
- Difficult to clean the system - risk of contamination
- Ability to produce a range of batch sizes is compromised

[JUMP TO COMPARISON TABLE >>](#)



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INTERMEDIATE DECOUPLED SYSTEM



PROCESS

Decouple the fixed mixer using IBCs

1. Tip into FIXED MIXER – mix product
2. Empty contents from a fixed mixer into an IBC
3. IBC moved to feed the packing line

PROS

- Blender can be loaded whilst you are packing reducing downtime
- Improves the efficiency of the fixed mixer
- Increased capacity possible as waiting times are reduced

CONS

- Mixer still out of operation whilst being formulated
- Clean down of mixer is time consuming and halts production
- Some yield loss as product will be lost in the mixer

[JUMP TO COMPARISON TABLE >>](#)

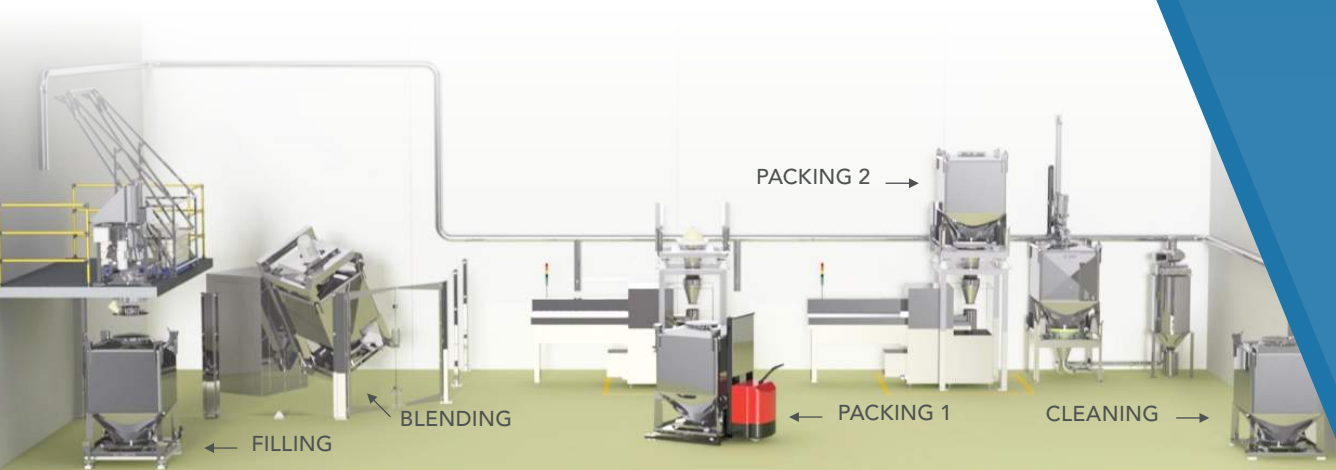
THE POWDER HANDLING EXPERTS

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MATCON IBC SYSTEM



PROCESS

Fully decoupled system, all process steps working at the same time

1. Sack tip into IBC
2. Tumble blend using IBC
3. IBC moved to packing line
4. IBC cleaned at station with air and/or wet wash
5. Multiple IBCs at each station at the same time

PROS

- All processing steps in action at the same time
- Waiting time eliminated
- No blender/mixer cleaning as all contained within an IBC
- Ability to make to order on fast turn around times
- Batch size flexibility using different sized IBCs

CONSIDERATIONS

- Multiple packing lines will be required to satisfy the capacity of full potential
- Manufacturer needs to be at right throughput level for ROI
- Suits batch sizes up to 3500L

[JUMP TO COMPARISON TABLE >>](#)

THE POWDER HANDLING EXPERTS

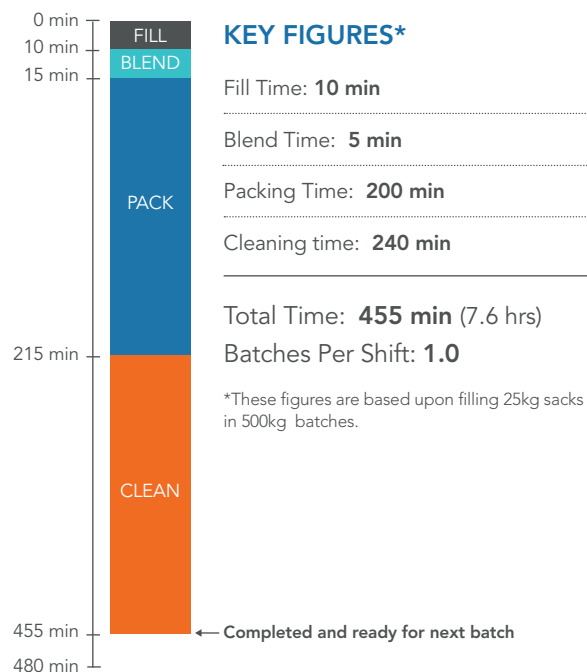
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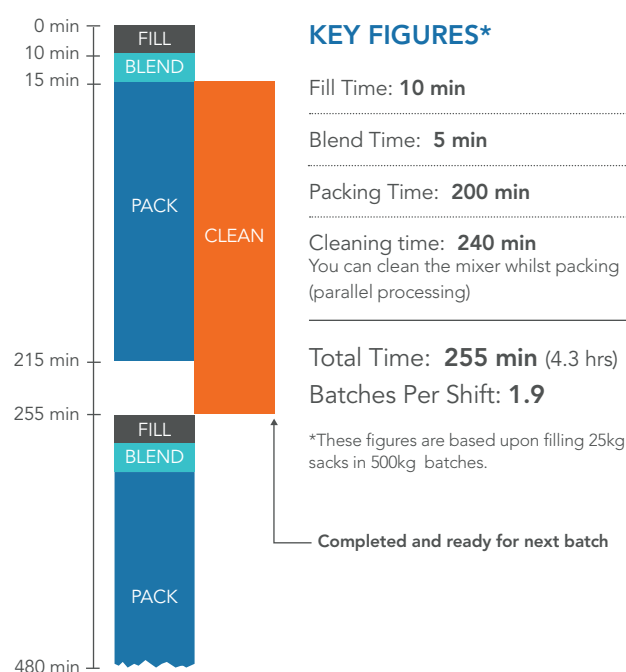
COMPARISON TABLE

POWDERS, HANDLED.

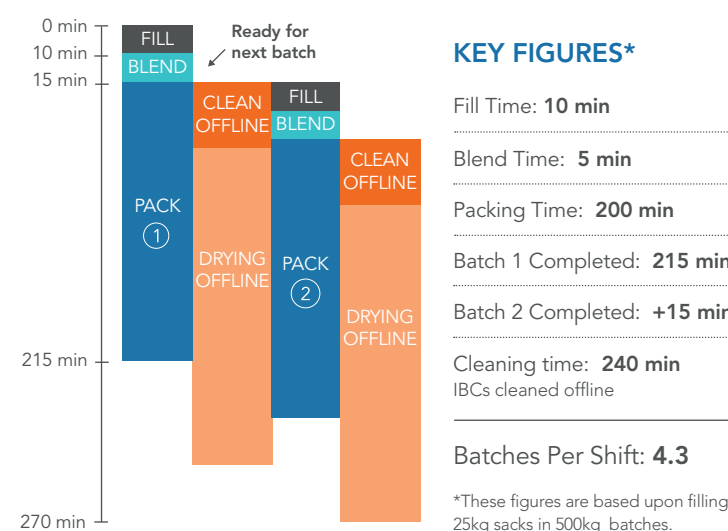
Fixed Mixer Conventional System



Intermediate Decoupled System



MATCON® IBC System



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NEXT STEPS

We're not just an IBC provider, but a true partner helping you accomplish the right system for your needs.



GIVE US A CALL
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LEARN MORE
Just a click away

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