

Granola clusters for bag in box breakfast cereal

MAESTRO™ cartoner is the
simple choice for multiple sizes



Requirements summarized

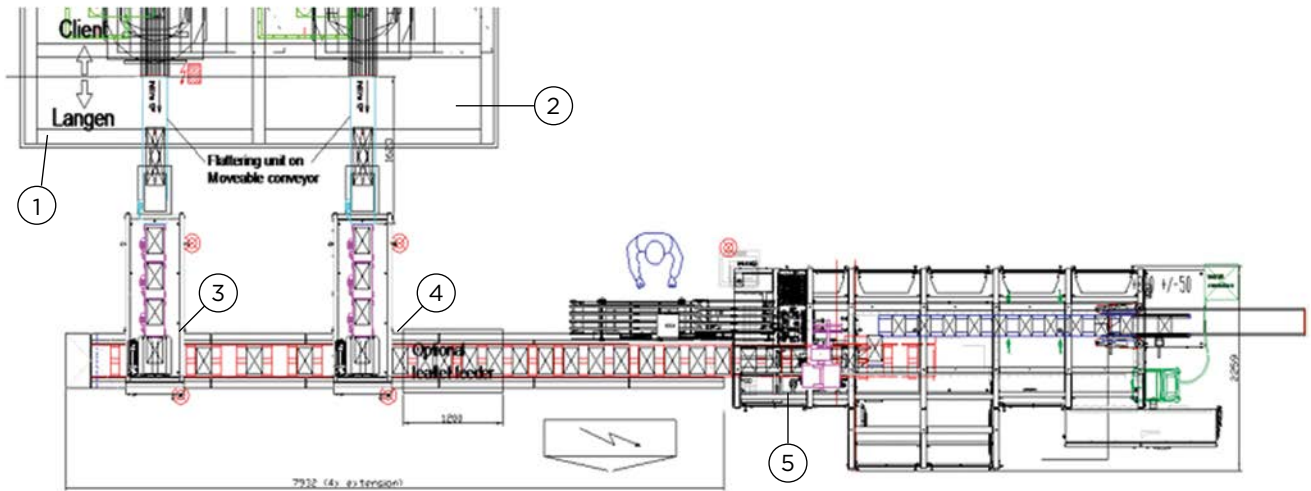
- Bag weight 10 bag sizes (300g - 1500g)

- Bag dimensions L = 190mm / 7.48" - 285 mm / 11.22"
 W = 135mm / 5.31" - 185 mm / 7.28"
 H = 40mm / 1.57" - 90mm / 3.54"
- Carton dimensions L = 136mm / 5.35" - 185 mm / 7.28"
 H = 40mm / 1.57" - 90mm / 3.54"
 D = 190mm / 7.48" - 285 mm / 11.22"
- Carton counts One bag per carton
- Infeed speed Two baggers producing
 70 bags/min each
- Infeed type Two Starwheel infeeds
- Carton output 140 cartons/minute

Challenges summarized

- Handling two VFFS bagger outputs into a single cartoner
- Handling up to 10 bag sizes while maintaining optimal OEE
- Quick changeovers for all the sizes required
- Food application with corresponding requirements

MACHINE LAYOUT



Solution highlights

- Combined 2 vertical form fill seal (VFFS) machines with a Starwheel infeed for each in order to load into one cartoner. The baggers were independently running synchronized with the infeeds but even if there was friction loss the three stage timing belts would keep the bags running smoothly into the cartoner.
- With automatic changeovers standard on the MAESTRO™ meeting the challenges of running multiple sizes was possible. With a removable carton magazine template and just a few adjustments the MAESTRO™ cartoner was ready for the next production run in less than 10 minutes.
- Repeatability and flexibility is also of major importance in order to run multiple sizes while still maintaining high efficiencies. The MAESTRO™ delivers this and more.

1. Bagger 1
2. Bagger 2
3. Starwheel infeed 1
4. Starwheel infeed 2
5. MAESTRO™ cartoner

All information given in this document is dependent upon final machine specification, infeed arrangement, product type and carton specification.

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