

# cereals



## controls & integration

- » Electrical Design
- » Installation
- » Commissioning
- » SCADA
- » HMI & Network System Remote Control

### total access

Operate your line with precision timing and efficiency to preserve the quality of all cereal ingredients including grains, dried fruit and extruded varieties.

- Keep your entire equipment line running smoothly, operating as a single unit from one location – on site or remotely
- Collect data from anywhere, anytime with software that includes customised interfaces, dashboards and reports for quick and easy analysis
- Get site support, project management and training services all as part of your complete controls & integration package

**“TNA’s turnkey solutions and project management services give you an on-time, on-budget, high-quality installation that’s stress-free from start to finish”**



## processing

- » Cooling Solution

### super cooled

Toast, dry and cool extruded or flaked products to create cereal with the perfect texture, colouring and taste.

- Control temperatures with innovative airflow technology to protect the quality of your cereal ingredients from start to finish
- Reduce the footprint of your cereal line with technologically advanced heating systems that incorporate shorter conveyors
- Spend less time on maintenance with easy-to-clean materials like stainless steel to ensure optimum sanitation

## coating

- » Oil
- » Slurry
- » Combination

### sugar coated

Produce cereals with ingredients that are coated consistently to preserve and enhance ingredient quality.

- Coat cereal with sugar, vitamins and nutraceuticals using innovative technology that is precise and minimises oil and slurry wastage
- Incorporate solutions like advanced spraying technology to ensure consistent coverage on every batch of product regardless of size or shape
- Prevent clogging with low-maintenance designed nozzles that are easy to clean and minimise downtime

## distribution

- » Horizontal Motion
- » Belt Conveyors
- » Vibratory Motion
- » Elevation Conveyors

### whole movement

Combine horizontal and vibratory motion conveyor technology to quickly move cereal ingredients from start to finish, minimising breakage and dust.

- Take total control of speed and direction with almost instantaneous response to control signals
- Create the perfect mix of cereal ingredients using state-of-the-art blending systems
- Choose from flexible configuration options and a range of different conveyors that are available in gateless proportional, gated, washdown and bi-directional configurations

## weighing

- » Weighing

### precision accuracy

Choose from single or multi-head scales to weigh and package multiple cereal ingredients with ultra-fast product transfer, reduced footprint and lower energy consumption.

- Handle delicate cereals with gentle, stainless steel buckets and programmable motor patterns, while minimising dust
- Clean and maintain weighers quickly with easy to reach parts that can withstand full washdowns

**“Customise distribution to your plant layout and for just about any product regardless of size, weight or texture”**

## packaging

- » Vertical Form Fill
- » Metal Detection & Seal Packaging
- » Verification

### high performance

Package a variety of cereal products and ingredients, bag sizes and formats on a single system – from the bag to box.

- Reach packaging speeds of up to 200 bags per minute while minimising dust and reducing waste
- Ensure the highest level of sustainability with the world’s smallest footprint and highest speeds in the cereals industry using 20% less energy than competitor systems
- Get the ultimate in packaging flexibility with multiple jaw configurations that allow you to package a variety of cereals and cereal ingredients using one machine





controls integration & SCADA | materials handling  
processing | freezing & cooling | coating distribution  
seasoning | weighing | packaging | metal detection  
verification | project management | training

## TNA is your single source supplier for processing and packaging solutions

Whether you're producing cold, hot, indulgent or healthy cereals, opportunities are pouring in, and for over 30 years TNA and its family of brands has helped food manufacturers capitalise on this growing industry. With more than 14,000 installations in over 120 countries, TNA's complete line of solutions brings simplicity, flexibility and performance to cereal production lines everywhere – and can do the same for you!

To make the most of your opportunities, it's more important than ever to partner with a supplier who can offer innovative and modular solutions to meet today's consumer demands including:

- Being able to grab a cup or pouch of cereal on-the-go
- Producing healthier options with more protein, fibre and other natural ingredients
- Offering a variety of flavours at a low-cost

As your partner, TNA offers complete, turnkey solutions from a single, global source that also gives you the power and control to boost production with:

- Improved line efficiency with integrated product controls and SCADA reporting
- Maximised use of oil during processing with advanced filtration technology
- Increased weighing and packaging speeds with precision accuracy
- Reduced energy footprint for improved sustainability
- Maximised production with innovative distribution solutions that minimise breakage and dust

All of this in addition to our my-tna 360° customer care programme that's available to you 24/7.

**Find start-to-finish solutions for cereals or just about any food application.**

