

# snack solutions



## controls & integration

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

### control snack line efficiency

Simplify processes and maximise your productivity with our world class range of electrical control systems and integration solutions especially for potato and snack applications.

- Push productivity to the max with TNA software development using any brand of major PLC control systems, PC systems, drive systems, SCADA systems, IT hardware and the interfacing and exchanging data between dissimilar equipment.
- Make the most of remote access and control of your operating system while collecting data using customised interfaces, dashboards and reports
- Get onsite support, project management and training services all as part of your complete controls and integration package

## handling & preparation

- » Washing and De-Stoning
- » Peeling
- » Slicing
- » Washing
- » Blanching
- » Drying



### yield better snack ingredients

Handle and prepare potatoes, beetroot, carrots, apples and other fresh produce to create a variety of snacks.

- Minimise costs and save time with easy-to-clean features and innovations that lower maintenance requirements
- Lower cost of ownership thanks to a long life cycle and flexible features made to handle a variety of produce using a single system
- Customise equipment to fit your production needs, from low-capacity solutions for start-ups to high capacity systems for larger food suppliers

## processing

- » Frying and Cooking
- » Cooling

### optimise time and temperature

Turn potato, corn and extruded products - and more – into the perfect snacks with made-to-order frying and cooking options.

- Process foods using batch or continuous fryers, roasters or even our patented vacuum frying technology
- Batch fry potatoes to produce chips that are kettle style with an extra crunch in each bite or reduced-fat chips for healthier snacking options
- Realise cost savings from heating technologies that produce more heat per unit for gas and feature state-of-the art oil filtration systems
- Cool products faster and reduce footprint with TNA's patented technology that utilizes hundreds of impingement cooling jets

**“ Pulsed Electric Field (PEF) technology dramatically increases your yield while preserving pigments, antioxidants and vitamins – ask us about visiting our Food Technology Testing Centre (FTTC) for a demonstration”**

## seasoning

- » Powder
- » Slurry
- » Oil
- » Combination

### **maintain consistent seasoning**

Ensure every snack is evenly seasoned and consistently coated for the perfect look, texture and taste.

- Signal precise amounts of seasoning with TNA's loss-in-weight control system
- Get even coverage on every chip or snack using adjustable tilt features that time how long a product is seasoned
- Minimise downtime with easy-to-access and remove parts for quick cleaning and fast changeovers
- Suit your production needs with flexible seasoning options that give you the choice to season right after processing or just before packaging

## distribution

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

### **safeguard product condition**

Prevent product damage or seasoning loss as you move potatoes, chips or other snack foods through your line.

- Take control of speed and direction with almost instantaneous response to control signals
- Choose from flexible configuration options and a range of different conveyors that are available in gateless proportional, gated, washdown and bi-directional configurations
- Meet and surpass food safety regulations and hygiene standards with a stainless steel construction that's easy to clean and maintain

## weighing & packaging

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

### **transfer snacks at top speeds**

Maximise packaging performance for your snacks with the shortest vertical product transfer from the scale to the pack, with waste as low as 0.3% – only from TNA.

- Weigh snacks in all shapes, sizes, weights, textures and seasonings while reducing breakage and loss of seasoning
- Minimise your environmental impact with the world's smallest footprint in the snack industry using 20% less energy than competitor systems while increasing throughput
- Ensure the fastest product changeover times of your snacks with rapid former unload, dual spindle auto-splice film changes, one-touch GUI system program change and easy-clean design
- Package a variety of bag sizes using flexible jaw configurations – from snack size to full size at industry-leading speeds
- Keep your products in line with regional safety regulations using our patented metal detection and verification solutions



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

The snack food industry generates over \$374 billion dollars (US) annually<sup>1</sup>, and for more than 30 years TNA has helped food manufacturers capitalise on this growing trend. With more than 14,000 installations in over 120 countries, TNA's complete line of solutions brings simplicity, flexibility and performance to snack 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 single source supplier who can offer innovative and modular solutions to meet today's consumer demands including:

- Snacking several times a day versus eating large meals
- Healthier options and more natural ingredients
- New and innovative flavours that create a snacking experience

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
- Minimised downtime to maximise the potential of your production line

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 snacks or just about any food application.**

<sup>1</sup> Nielsen, Global Snack Food Sales Reach \$374 Billion Annually (April 2014)

