

# high performance vertical form fill & seal (VFFS) system





# industry leading high-performance vertical form fill and seal packaging machine

The tna robag® FX 3e is an industry leading high-performance vertical form fill and seal (VFFS) packaging machine that delivers the fastest speeds in the industry for its class and the latest in automation technology with real-time EtherCAT® connectivity.

Reaching up to 250\* bags per minute, the tna robag® FX 3e also offers superior flexibility thanks to its rotary triple, double, single and flat jaw configurations. With an integrated display controller CXE, smart diagnostics and enhanced serviceability, the tna robag® FX 3e is the system of choice to bag just about any type of snack (or food application) quickly and efficiently. No matter what type of bag you need, changing out formers is simple and quick with our patented tna robag® auto-connect and unload assist features.

## key benefits

- » The fastest - packs up to 250 bags per minute\*
  - » Up to 99% target output efficiency and wastage as low as 0.1%\*
  - » Small footprint, featuring TNA's patented stripper tube closer and advanced film control features
  - » Quick and easy product changeover due to TNA's patented unload assist, auto-connect and
  - » one-touch recipe change function
- Reduces maintenance costs with:
- Drives and controls common to the tna roflo® and tna intelli-flav® systems
  - Smart diagnostics and remote connectivity
  - Up to 20% reduced cabling with EtherCAT® connectivity
- \*subject to bag type, film and product

## CXE integrated controller

tna robag® FX 3e introduces the future-proof, integrated display controller CXE that is extremely easy to operate, maintain and service. It features easy and quick software and firmware updates. This integrated unit is also very easy to swap, reducing the maintenance downtime. Another innovative feature is the ability to mirror/extend the controller screen to a tablet/mobile device.



## flexible jaw options



**rotary single jaw**  
moderate speed  
for any bag  
size format



**rotary flat jaw**  
specialist for  
complex bag  
types and difficult  
film types



**rotary double jaw**  
high speeds for  
any bag size  
or format



**rotary triple jaw**  
maximum speeds  
for standard,  
smaller bags



baked snacks



cereals



confectionery



nuts



pasta



powders



snacks

## standard features

- » Mono-rail long-life vacuum pull belts
- » 38.1cm (15in) colour touch screens
- » Smart-response film dancer
- » Quick-change, lightweight former
- » Single-pass film loading
- » Seamless integration with fingertip control
- » Auto-positioning vacuum drives
- » Servo-driven quick-change jaws
- » Patented product stripper/tube closer
- » tna intelli-system® continuous motion control software

## optional features

- » Modbus/TCP interface for SCADA applications
- » Product-in-seal (PISD) speed regulating software
- » Full upstream and downstream integration options including:
  - tna intelli-weigh® multihead weighers
  - tna hyper-detect® metal detectors
  - tna intelli-date® code applicator
  - tna intelli-read® barcode verification
  - Bag collators
  - Inserters
  - Programmable string bag systems
  - TNA take away conveyors
  - Augers
  - Check weighers



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