

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



Scan the QR code for more details!

Apple users, simply use your camera;

Google Play users, simply use your QR code app



tnasolutions.com

Contact us anywhere, anytime: tnateam@tnasolutions.com

With presence in over 30 locations our global experts are available to support you anytime, anywhere!