



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



# boost productivity and operational efficiency

Built on world-first innovations, the tna robag® 3e is the most advanced VFFS packaging system delivering industry-leading performance for confectionery and snack packaging. Its simplified design with fewer moving parts ensures minimal maintenance and improved energy efficiency. Quick-change parts design enable faster changeovers.

## key benefits



### Fewer moving parts

Simplified mechanical design ensures minimal maintenance, reducing wear and enhancing energy efficiency.



### Lower maintenance

Time saving maintenance with backward compatible parts and modular design for fast pitstop-style format changeovers.



### Modular design

The tna robag® 3e modular platform shares components with earlier models, simplifying maintenance and inventory.



### Increased uptime

Highest possible build quality paired with smart diagnostics that monitor performance to quickly identify and resolve issues.

## >> Faster with greater efficiency

The unparalleled engineering standards in the tna robag® 3e allows speeds of up to 250 bags per minute\* with over 95% efficiency.

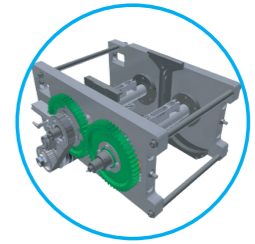


\*speeds determined by tna robag® configuration, bag size, film and product type

Bag widths |—————> 40mm to 420mm

## Integration options

- 1 tna intelli-weigh® weighing scales
- 2 tna hyper-detect® metal detector
- 3 tna intelli-date® data coder



## >> Continuous rotary-motion



### World-first innovation

In 1986 TNA released the world's first continuous rotary-motion jaws increasing bag making speeds by nearly 70%.

tna robag® 3e pictured with tna auto-splice\*

## >> Central control



### World-first innovation

In 1998, TNA introduced the first completely integrated packaging system, with full system visibility and control from a single interface.

## >> Boost efficiency to over 98%

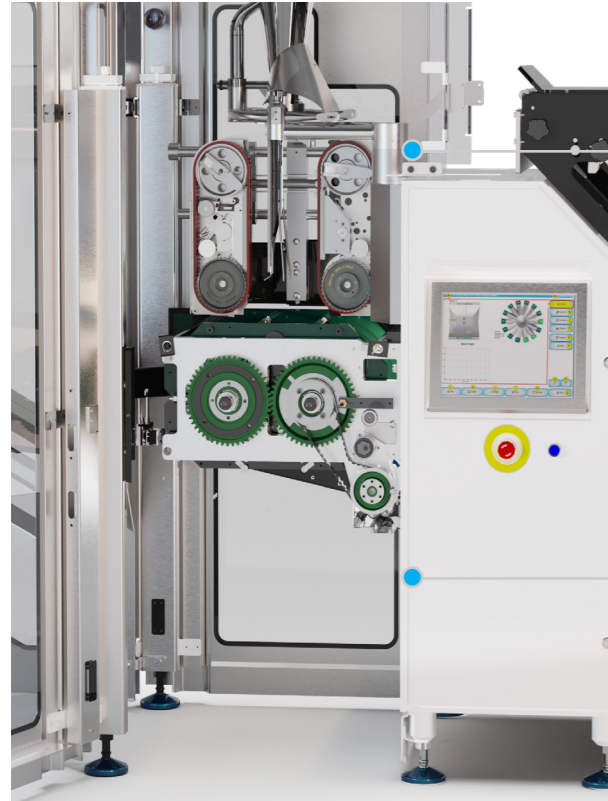
When paired with tna auto-splice, line efficiency is boosted to over 98% and productivity by an additional 5%.



See tna robag® 3e in action >



# low maintenance modular platform



## » Quick-change parts

Tool-less design for fast pitstop-style changeovers of formers and other core components.

## » Reduced maintenance

Fewer parts and less mechanical wear compared to other bag makers, reducing maintenance and energy consumption.

## » Former unload assist

tna robag® 3e includes the former unload assist with pivot arm, allowing one person to quickly and easily exchange formers safely and with minimal effort.

[See former unload assist in action >](#)

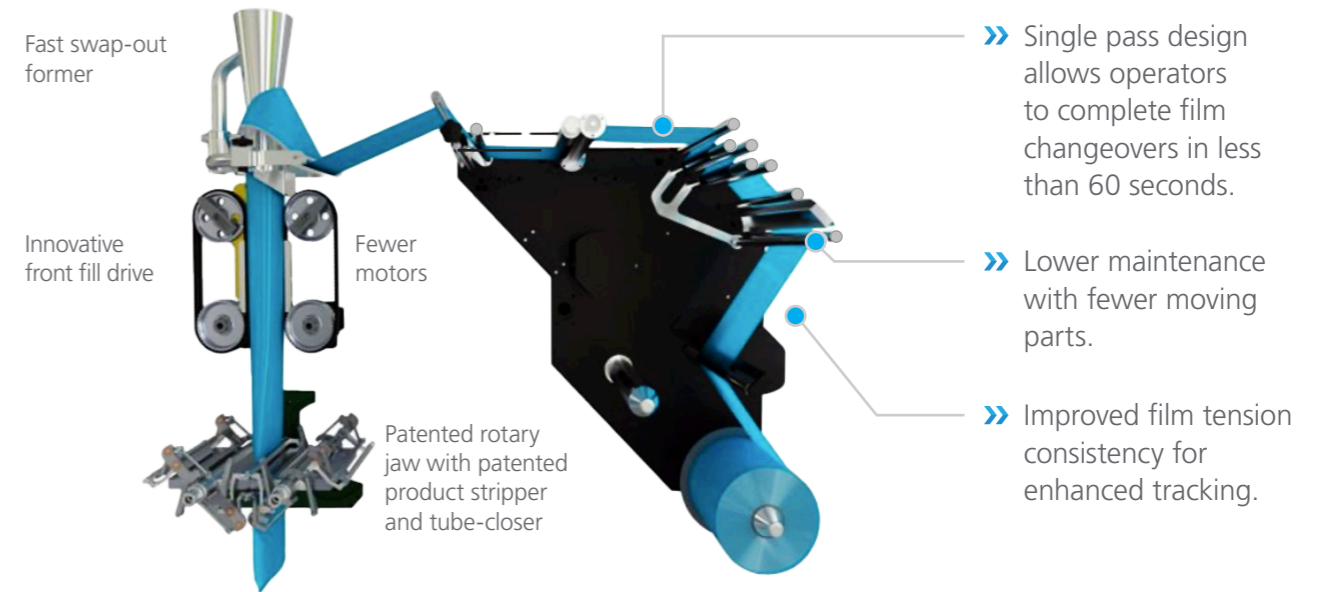


## » Advanced film feed system



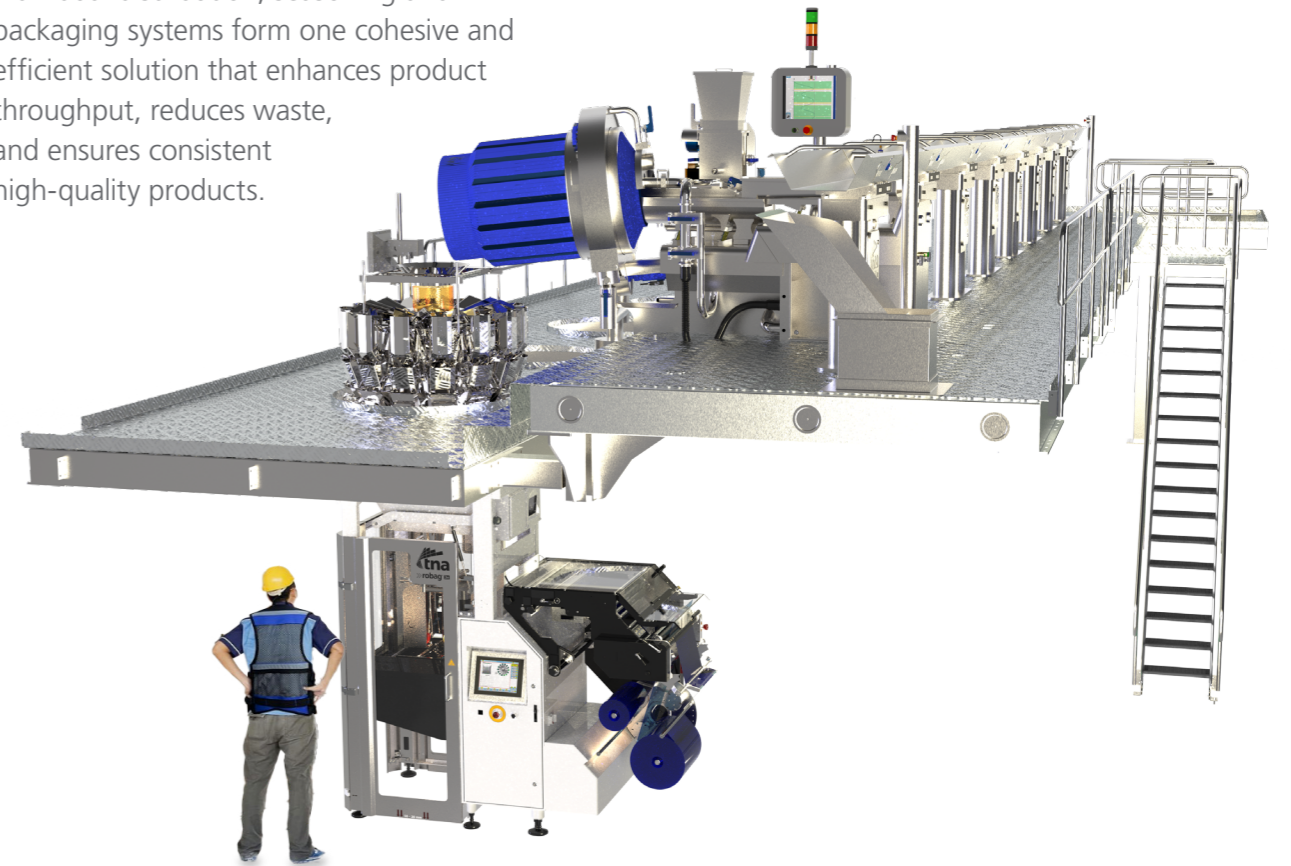
### World-first innovation

Invented by TNA in 2005, the straight through film pass design improves throughput speeds, increases uptime and reduces operator film changeover time.



## » Intelligent integration

The tna robag® 3e communicates with tna intelli-flav® and tna roflo®. Together, the individual distribution, seasoning and packaging systems form one cohesive and efficient solution that enhances product throughput, reduces waste, and ensures consistent high-quality products.



### Local global support

Global reach with local expertise, ensuring localised and tailored support from TNA for the entire line.



### Single source partner

TNA is the only global supplier providing complete and integrated solutions across the entire production line.

# standard specifications



Model		tna robag® 3e FX		
<b>Performance</b>				
Maximum speed*	250 bpm triple jaw   150 bpm double jaw   100 bpm single jaw   75 - 125 bpm rotary flat jaw			
<b>Packaging</b>				
Bag size*	<b>Rotary triple jaw</b>			
	Length	50 – 180 mm   2.0 – 7.1 in		
	Width	40 – 180 mm   1.6 – 7.1 in		
	<b>Rotary double jaw</b>			
	Length	50 – 1000 mm   2.0 – 39.4 in		
	Width	40 – 320 mm   1.6 – 12.6 in		
	<b>Rotary single jaw</b>			
	Length	50 – 1000 mm   2.0 – 39.4 in		
	Width	40 – 320 mm   1.6 – 12.6 in		
	<b>Rotary flat jaw</b>			
	Length	50 – 1000 mm   2.0 – 39.4 in		
	Width	40 – 420 mm   1.6 – 16.5 in		
Film roll	Width	384 – 1000 mm   15.1 – 39.4 in		
	Diameter	400 mm   15.7 in		
	Max. weight	50 kg   110.2 lbs (35 kg recommended to minimise tracking) 150 kg   330.7 lbs (applies to Rotary Flat Jaw 420 only)		
<b>Pneumatics</b>				
Air consumption - @6bar (87psi) L/min / cfm	3L/min   0.11 cfm			
<b>Electrical</b>				
Voltage	3PH 208~480 VAC			
Consumption	4.2 kW   5.6 hp (triple jaw) 3.5 kW   4.7 hp (double and flat jaw) 2.8 kW   3.8 hp (single jaw)			
Controller	CXE			
<b>Machine</b>				
Construction	Frame	Powder coated mild steel and stainless steel		
Dimensions**	Height	Lowlander	Total	1800 mm   70.9 in (Rotary Flat Jaw 420   2360 mm)
			Former	1760 mm   69.3 in (Rotary Flat Jaw 420   2360 mm)
		Midlander	Total	1800 mm   70.9 in (Rotary Flat Jaw 420   2360 mm)
			Former	1835 mm   72.2 in (Rotary Flat Jaw 420   2360 mm)
		Highlander	Total	1800 mm   70.9 in (Rotary Flat Jaw 420   2360 mm)
			Former	1910 mm   75.2 in (Rotary Flat Jaw 420   2360 mm)
	Depth	1910 mm   75.2 in (Rotary Flat Jaw 420   1700 mm)		
	Width	900 mm   35.4 in (Rotary Flat Jaw 420   3200 mm)		
Weight	1000 kg   2204.6 lbs (Rotary Flat Jaw 420   1500 kg)			

\*Speeds determined by bag size, jaws, film and product type.  
 There are four rotary jaws available for the tna robag® 3e. Each jaw comes in varying sizes to suit specific bag dimensions and types.  
 \*\*The tna robag® 3e is available in three height configurations – Lowlander, Midlander, Highlander, to accommodate equipment integration requirements.  
 Specifications subject to change and may differ according to product. Please talk to your TNA representative for the latest updates.