

**Tetra Pak® A3/Flex**  
**packaging lines**  
Best investment protection



## Speed

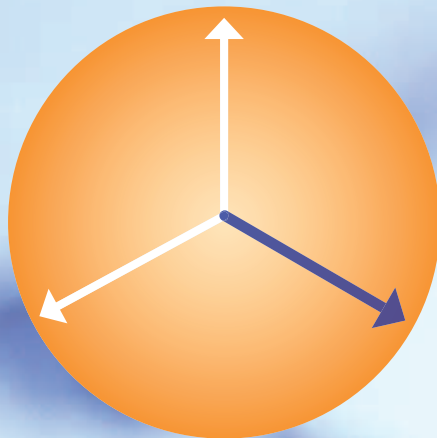
for high volume producers  
looking for the lowest  
operational cost

**TBA/22** and  
**Tetra Pak® A3/Speed**  
Packaging Lines

## Low investment

for low volume producers  
(start-ups and local players)

**TBA/8, TBA/19**  
Packaging Lines



## Flexibility

for producers looking for  
investment protection and  
optimal capacity utilisation

**Tetra Pak® A3/Flex**  
Packaging Lines

# Flexibility for investment protection and optimal capacity utilisation

- ▶ Product differentiation
- ▶ Competitive operating cost
- ▶ High functionality and quality control features

**Tetra Pak® A3/Flex**





# Protecting your investment

## Flexibility creates innovation and product differentiation

Of the many packaging options available, which one suits your business best? Sometimes this question demands an immediate response, and the answer may change in accordance with market preferences, seasonal cycles or the emergence of new promotional opportunities.

The Tetra Pak® A3/Flex affords the flexibility you need to adapt quickly and precisely to such changes. Enabling you to easily modify package sizes and shapes, it increases your return on investment and capacity utilisation and provides a production platform for innovation.

Servomotors reduce mechanical complexity and simplify setting of the jaw system. Stroke changes, driven by servomotors and necessary for volume conversions, can be carried out via the operator panel making volumes changes and QuickChange™ much easier.

## Quick Change™

Quick Change™ enables a customer to change package volumes in only 10 minutes when the bottom cross section is the same size. QuickChange™ is available for the following volumes:

- ▶ TBA 1000 B and TBA 500 B
- ▶ TBA 2000 S and TBA 1890 S
- ▶ TBA 200 B, TBA 250 B, and TBA 330 S
- ▶ TBA 200 M and TBA 250 S
- ▶ TBA 200 Sq and TBA 250 Sq
- ▶ TPA 200 Sq and TPA 250 Sq
- ▶ TPA 1000 Sq and TPA 750 Sq

Volumes available in QuickChange™ configuration are not available as independent volumes.

## Big change

Unique in the industry: The conversion in the filling machine between any two packages can be carried out in as short a time as seven hours\* (excluding cleaning and sterilisation). Users of the new Tetra Pak® A3/Flex can add Volume Conversion Kits at their convenience. Each kit comes with all the necessary spare parts and instructions for implementation.

(\* ) This estimate is based on conversion by three skilled technicians, and does not include time needed for DE conversion. For TBA 1890/2000 package, time estimate is 17 hours.





# through enhanced flexibility

## Flexibility and competitive operating cost

Tetra Pak has invested in developing low operating cost systems from which many of the packaging lines can benefit. The high level of flexibility provided by the Tetra Pak® A3/Flex has been achieved without compromising the

competitiveness of its low per-unit operating cost. Let's take a look at some of the ways in which the Tetra Pak® A3/Flex filling machine is not only flexible, but cost-effective.

## Economic use of consumables

The use of consumables is low thanks to a deep-bath sterilisation system and space-optimised sterilisation chambers (a quarter the size of carton competitors' machines). These factors lead to fewer control points, lower level of peroxide consumption and shorter recovery time.

## Automation keeps manpower and maintenance costs down

- ▶ One-person operation
- ▶ Integrated cleaning unit
- ▶ New automatic splicing unit
- ▶ All key operations are located at ground level
- ▶ User-friendly Tetra Pak Operator Panel with touch screen interface in local language
- ▶ Packaging material reel brakes
- ▶ Automatic monitoring of sealing parameters
- ▶ High visibility of critical areas of the machinery
- ▶ Automatic control of hydrogen peroxide concentration







## Reducing waste to a minimum

Sophisticated sensors enable the machine to detect the exact 3 packages which need to be rejected from the splice. In addition, the double-loop filling system assures more accurate product level control. Sensors in the filling system detect inconsistent product flow and reduce the number of stops and consequent product waste.

## Roll-fed material: efficient transportation and storage

Tetra Pak primary packaging material for aseptic packages comes in rolls and requires 40% less storage space than carton package blanks.



# Flexibility with simplicity



The PullTab™ or DIMC (Direct Injection Moulding Concept) applicator is incorporated into the filling machine, so that no extra space or additional equipment is required downstream.

The PullTab™ applicator can be accessed at the push of a button, making maintenance and ongoing adjustments easy to carry out.

And, the space to access the jaw system has been increased so that the machine operator has room to manoeuvre when carrying out QuickChange™ volume conversions and maintenance.

## The World Leader in Aseptic Technology

Tetra Pak aseptic system delivers superior product safety. Packaging material surfaces are sterilised beyond US FDA and EU legal requirements. Machines are completely sealed, and hydrogen peroxide residues are drained and diluted prior to discharge. This means a safer working environment for operators and a cleaner natural environment.

## Environmental leadership

The Tetra Pak® A3/Flex filling line is the first in the world to achieve Environmental Product Declaration (EPD®) certification. EPD is a system for science-based, verified, and comparable environmental product information, and is a response to growing demands for quantitative information about products throughout their life-cycles.



# Maximising system performance: the key to enhancing your competitiveness

Most of today's food and beverage manufacturers operate in an environment of steadily rising competition, which makes defending margins a continual challenge and, consequently, a top strategic priority. Tetra Pak can offer you the means to maintain margins through continual reduction of your per-unit operating cost. We call this Maximising System Performance.

To keep your packaging system's performance at its maximum, some critical factors must be considered, including operating costs, retailer demands, product volumes and diversity, and both upstream and downstream logistics. Naturally, these factors vary across geographic regions and business segments.

Maximising System Performance means understanding the above factors in relation to your entire production system – people, lines, materials, and maintenance – and the entire life cycle of a packaging line.

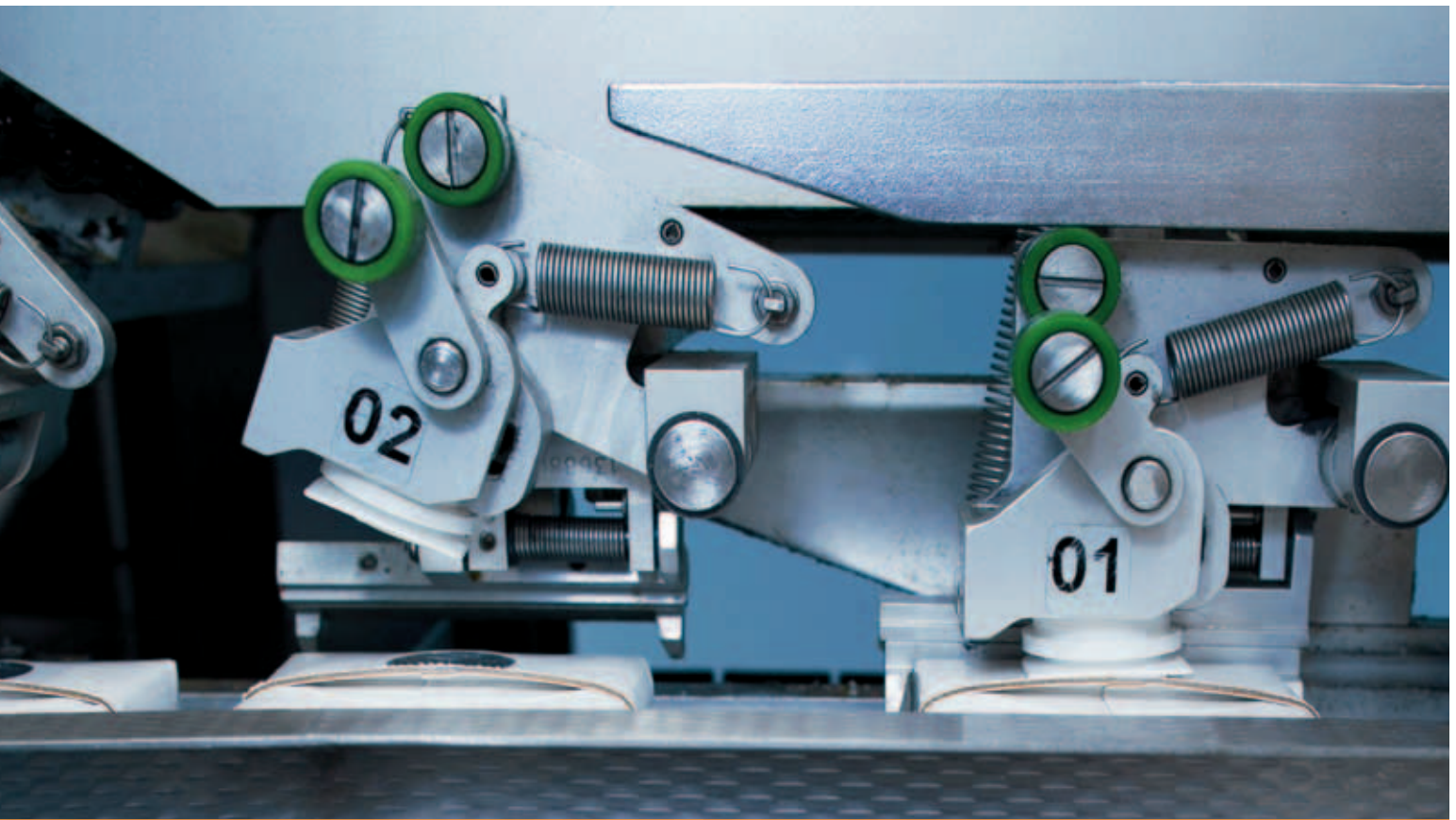
This understanding then guides decisions to ensure that you get the lowest possible unit cost from your production line.

Tetra Pak focuses on reducing per-unit operating costs across the lifetime of a packaging line.

► **Existing packaging lines** For the lines that are already installed at your site, we can improve performance by providing training, new technical service products and equipment upgrades.

► **New installations** Selling and delivering line performance – not simply equipment – is our unique value proposition. This means working closely with you to establish common expectations during the pre-contract phase and ensuring that these are met as the project is executed.

► **Future developments** We engineer a higher level of robustness, reliability and usability into each new generation of line equipment. The operating cost and capacity usage studies we carry out in our customers' factories provide the data that guides our development efforts.



# Standard lines: a sure path to superior system performance

## What is a Standard packaging line?

It's a well established and technically evaluated packaging line configuration that's been verified over an extended period of time for its ability to meet specific criteria such as:

- ▶ scheduled operator time
- ▶ line efficiency
- ▶ packaging material efficiency
- ▶ maintenance requirements

## The benefits

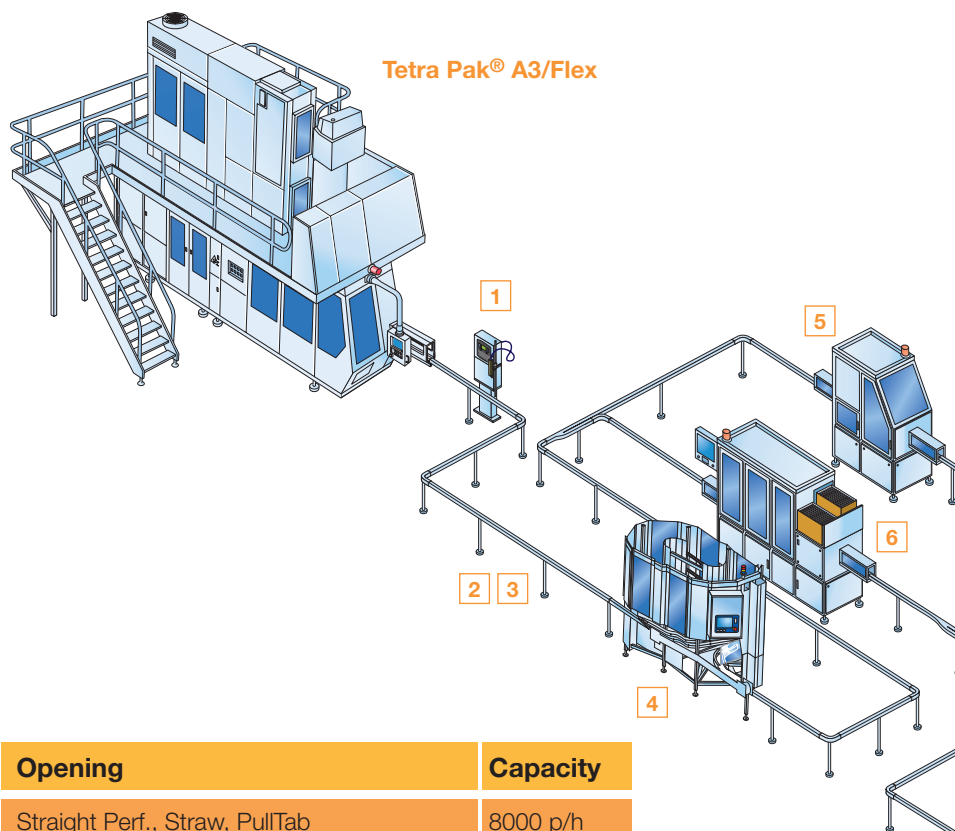
- ▶ Enhanced overall performance
- ▶ Improved package appearance
- ▶ Minimised material waste
- ▶ Optimised package flow between line components
- ▶ Benchmarked performance based on identical reference installations
- ▶ Rapid installation and start-up

## Line Performance results\*

- ▶ MME (Machine Mechanical Efficiency)  $\geq 92\%$
- ▶ MTBF (Mean Time Between Failure)  $\geq 1$  hour, 30 minutes

\* Results apply to the following configuration:  
TP A3/Flex TBA1000B + ACHx + TCBP70  
(Standard Line 1)

# Tetra Pak® A3/Flex packaging line



## Package portfolio

Volume	Package	QuickChange™	Opening	Capacity
200 ml	TBA 200 B	TBA 250 B – 330 S	Straight Perf., Straw, PullTab	8000 p/h
	TBA 200 M	TBA 250 S	Straw	
	TBA 200 S	-	Straight Perf., Straw	
	TBA 200 Sq	TBA 250 Sq	StreamCap	
	TPA 200 Sq	TPA 250 Sq	PullTab	
250 ml	TBA 250 B	TBA 200 B – 330 S	Straight Perf., Straw, PullTab	8000 p/h
	TBA 250 S	TBA 200 M	Straw	
	TBA 250 Sq	TBA 200 Sq	StreamCap	
	TPA 250 Sq	TPA 200 Sq	PullTab	
330 ml	TBA 330 S	TBA 200 B – 250 B	Straight Perf., Straw, PullTab	8000 p/h
	TPA 330 Sq	-	PullTab, StreamCap	
500 ml	TBA 500 B	TBA 1000 B	Wave Perf., Straw	7000 p/h
	TBA 500 S	-	Wave Perf., Straw, PullTab, ReCap2	
	TPA 500 Sq	-	StreamCap	
750 ml	TPA 750 Sq	TPA 1000 Sq	StreamCap	7000 p/h
1000 ml	TBA 1000 B	-	FlexiCap	7000 p/h
	TBA 1000 B	TBA 500 B	Wave Perf., PullTab, ReCap3	
	TBA 1000 S	-	PullTab, ReCap3, FlexiCap, SlimCap	
	TBA 1000 Sq	-	Straight Perf., PullTab, ReCap3, StreamCap	
	TPA 1000 Sq	TPA 750 Sq	StreamCap	
1500 ml	TBA 1500 S	-	ReCap3, SlimCap	5500 p/h
1890 ml	TBA 1890 S	TBA 2000 S	ReCap3, SlimCap	5000 p/h
2000 ml	TBA 2000 S	TBA 1890 S	ReCap3, SlimCap	5000 p/h

More technical information on the following downstream equipment is available in the respective data sheets:

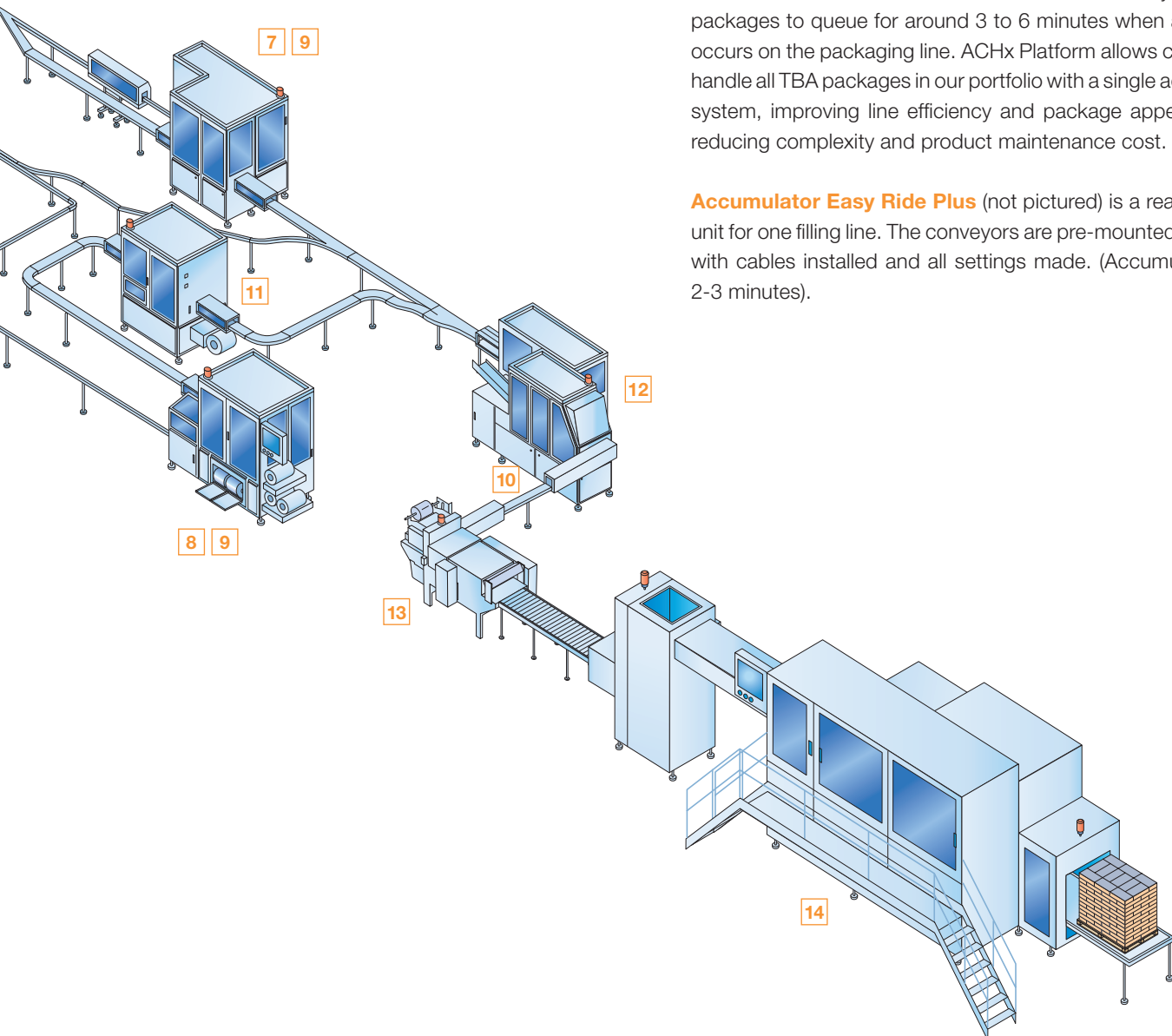
**1. Domino A300** is a flexible ink jet printer for on-pack date, production and traceability code printing. It is suitable for all Tetra Pak packages. The fully automated start-up and shutdown functions, simple user interface and advanced fluid supply systems combine to make the Domino A300 truly operator friendly.

**2. Tetra Package Conveyor 21** is a flexible conveyor system that can be adjusted to fit all Tetra Pak A3/Flex package sizes and shapes excluding TBA 1890/2000. (Conveyor width: 40-78 mm.)

**3. Package Conveyor 23** by Tetra Pak is a newly released (2005) conveyor system that has been developed to meet today's demands for flexibility, hygiene, cost and noise reduction. It is the conveyor for TBA 1890 S and TBA 2000 S packages.

**4. Accumulator Helix** platform is an accumulation system - part of our standard lines - which secures line efficiency by allowing packages to queue for around 3 to 6 minutes when a short stop occurs on the packaging line. ACHx Platform allows customers to handle all TBA packages in our portfolio with a single accumulation system, improving line efficiency and package appearance and reducing complexity and product maintenance cost.

**Accumulator Easy Ride Plus** (not pictured) is a ready-to-install unit for one filling line. The conveyors are pre-mounted on a frame, with cables installed and all settings made. (Accumulation time: 2-3 minutes).



**Tetra Conveyor Control System** (not pictured) can be used as an alternative to ACHx Platform in case of floor space respraint. The Tetra Conveyor Control System makes it possible to accumulate the maximum number of packages on the conveyors, ensuring careful treatment of the packages and preventing them from tipping over. (Recommended minimum accumulation time: 2 minutes).

**5. Tetra Straw Applicator 21** applies a drinking straw opening to TBA portion packages. (Straw types: S-, T- and U-straws).

**6. Tetra Cap Applicator 21** attaches ReCap opening to TBA family packages.

**Tetra Cap Applicator 88** (not pictured) attaches StreamCap opening to TBA 1000 Sq.

**Tetra Cap Applicator 45** (not pictured) applies StreamCap openings to TPA 500 Sq and TPA 1000 Sq packages.

**Tetra Cap Applicator 47** (not pictured) applies SlimCap openings to TBA 1000 S and TBA 1500 S packages.

**Tetra Cap Applicator 40** (not pictured) applies StreamCap opening to TPA 330 Sq or TBA 200 Sq and TBA 250 Sq packages.

**Tetra Cap Applicator 49** (not pictured) applies SlimCap and StreamCap openings to TPA 750/TPA 1000 and TBA 1890 S/ TBA 2000 S packages and comes with QuickChange™ TPA 750/TPA 1000 and TBA 1890 S/TBA 2000 S as standard.

**7. Tetra Film Wrapper 67** produces multipacks of TBA and TPA portion packs wrapped in clear thin polyethylene film (PE). An option for this machine is printed film in register. (Sales units: 3, 4, 6, 8, 9, 10, 12 packs for most volumes).

**8. Tetra Film Wrapper 66** produces multipacks of TBA and TPA family packs wrapped in clear thin polyethylene (PE) film. (Sales units: 4, 6 packs with 2x2 recommended cardboard unit packing pattern and 3x2).

**9. Film Wrapper 68** is a brand new film wrapper and is now available for most Tetra Pak A3/Flex packages. It is available in either a shrink or stretch film version and offers three solutions for wrapping packages in multi-packs: standard low-cost option with clear film, printed film for greater shelf impact-, and multi-packs with card inserts for value-added or premium product positioning.

**10. Tetra Conveyor Flexi 56** and **Tetra Unit Conveyor 54** are conveyor systems to fit a range of distribution and sales units. (TUC 54 has fixed widths while TCF 56 has adjustable railings.)

**11. Tetra Handle Applicator 32** applies a handle made of polyethylene (PE) and a paper strip to a multipack. This allows easy handling by consumers and provides space to include a printed message or design. (Unit size: Height 88 - 250 mm, Length 124 - 285 mm and Width 94 - 148 mm).

**12. Tetra Cardboard Packer 70** is designed for packaging lines with a capacity of up to 10,000 packages/hour and offers a choice of trays or wraparound units. A double layer stacking option generates savings on secondary packaging and a top inserter feature provides extra protection of screw cap packages on rough journeys.

**13. Tray Shrink 51** wraps cardboard trays in film for stability and protection against dirt. (Unit size: Max. Height 265 mm, Width 150 - 240 mm and Length 180 - 420 mm).

**14. Tetra Pallet System 10** is a whole system consisting of Tetra Pallet Loader 10, Tetra Pallet Magazine 10 and Tetra Elevator 10 which are combined to create a complete solution for the customer. A variety of the most common pallet sizes are available.

# Tetra Pak<sup>®</sup> A3/Flex standard packaging lines (examples)

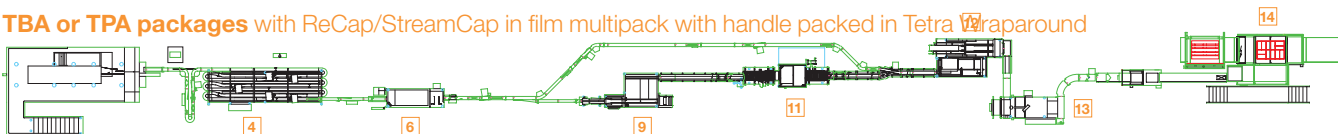
**TBA or TPA packages in Tetra Tray with shrink film on pallet**



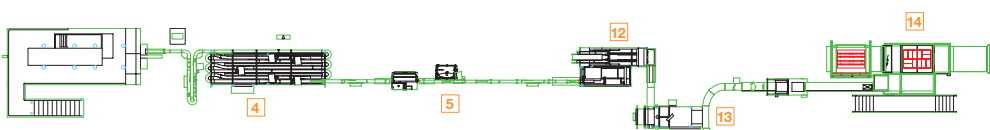
**TBA or TPA packages with SlimCap/StreamCap in Tetra Wraparound**



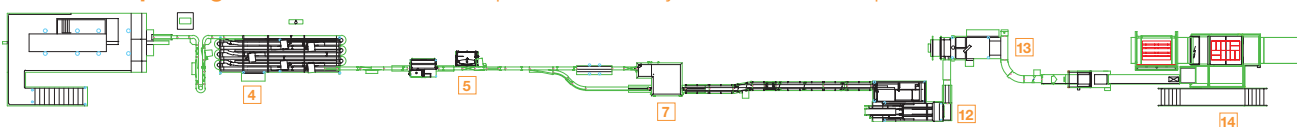
**TBA or TPA packages with ReCap/StreamCap in film multipack with handle packed in Tetra Wraparound**



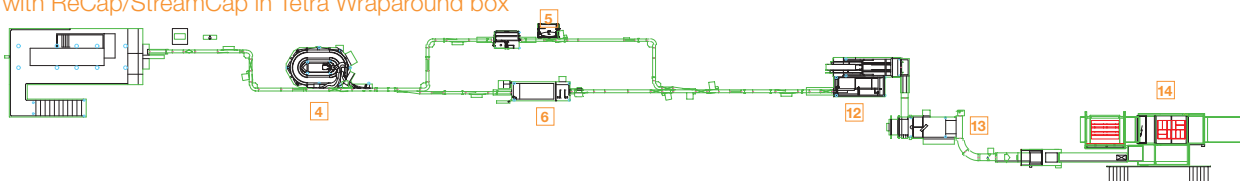
**TBA or TPA packages with straws in Tetra Tray with shrink film on pallet**



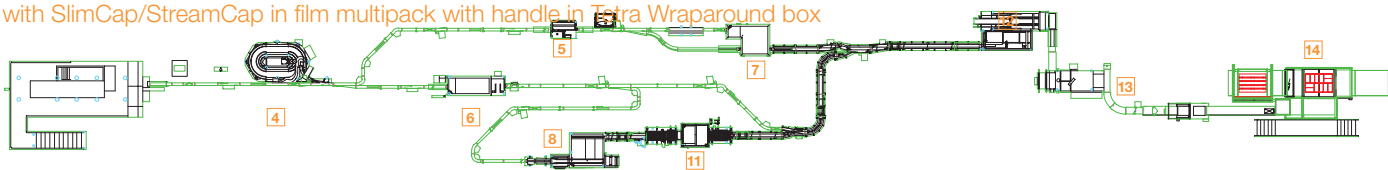
**TBA or TPA packages with straws in film multipack in Tetra Tray with shrink film on pallet**



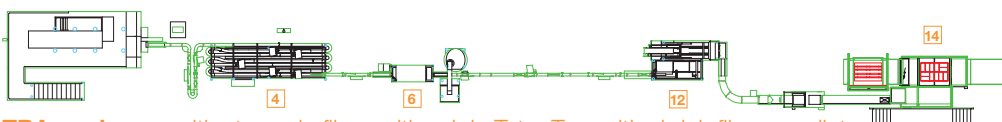
**TBA packages with straws in Tetra Tray with shrink film on pallet or TBA or TPA packages with ReCap/StreamCap in Tetra Wraparound box**



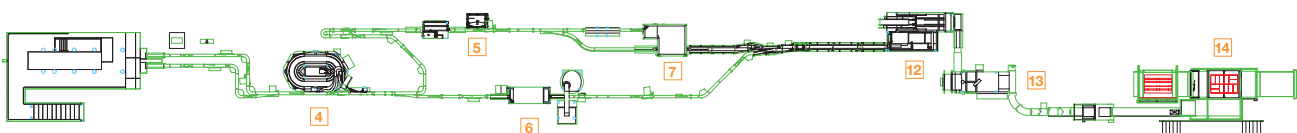
**TBA packages with straws in film multipack in Tetra Tray on pallet or TBA or TPA packages with SlimCap/StreamCap in film multipack with handle in Tetra Wraparound box**



**TBA 1000 Sq packages with StreamCap in Tetra Wraparound box**



**TBA packages with straws in film multipack in Tetra Tray with shrink film on pallet**





# Preserving and adding value all

Look to complementary products and product solutions from Tetra Pak for ways to protect and enhance the value of each filled package as it moves through the distribution system.

Tetra Pak Film Wrappers and Cardboard Packers are used to transport and protect products as they make their journey to the retail outlet. They make for easier handling and can be used for retail displays.

The large surface areas on the Film Wrapper and Cardboard Packer units are ideal for branding, merchandising and promotional messages to increase visual impact and product differentiation in store.

Multi-pack units make it easy for consumers to buy larger quantities of packages each time. They match the bulk shopping trend, especially in hypermarkets and large-scale discount retailers.





the way to the consumer



# 22 different packages with one machine!

Packages produced by the Tetra Pak® A3/Flex are synonymous over the world with high quality and user-friendliness at low cost. Here are a few of the reasons why this packaging line and its products are so competitive.

## Tetra Brik® Aseptic Baseline and Slimline – The great all-rounder

## Tetra Brik® Aseptic Squareline – The smart alternative

Compatible with the widest range of packages of any aseptic packaging line, the Tetra Pak A3/Flex produces 22 different TBA and TPA packages with volumes ranging from 200ml to 2000ml thanks to the Volume Conversion Kits.

The Tetra Pak A3/Flex supports the familiar and well-established Tetra Brik Aseptic family, rated for its high consumer acceptance. With its numerous combinations of size and opening/closure solutions, the Tetra Brik Aseptic satisfies a great variety of liquid food packaging needs. Openings include more simple solutions, such as perforation, PullTab™, FlexiCap™, and straw, or, alternatively, more sophisticated recloseable and resealable openings such as ReCap™3, StreamCap™ and SlimCap™.

## Tetra Prisma® Aseptic – Sensational

The Tetra Pak A3/Flex provides a springboard for exploring new business opportunities with the striking Tetra Prisma Aseptic packaging solution. Tetra Prisma Aseptic packages are designed to enhance your branding. With its unique 8-sided shape, enhanced packaging material and high-quality printing options, the Tetra Prisma Aseptic can infuse your brand with an unmistakable, innovative image. It's a new packaging style created for quality and image-conscious consumers looking for a superior product.





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