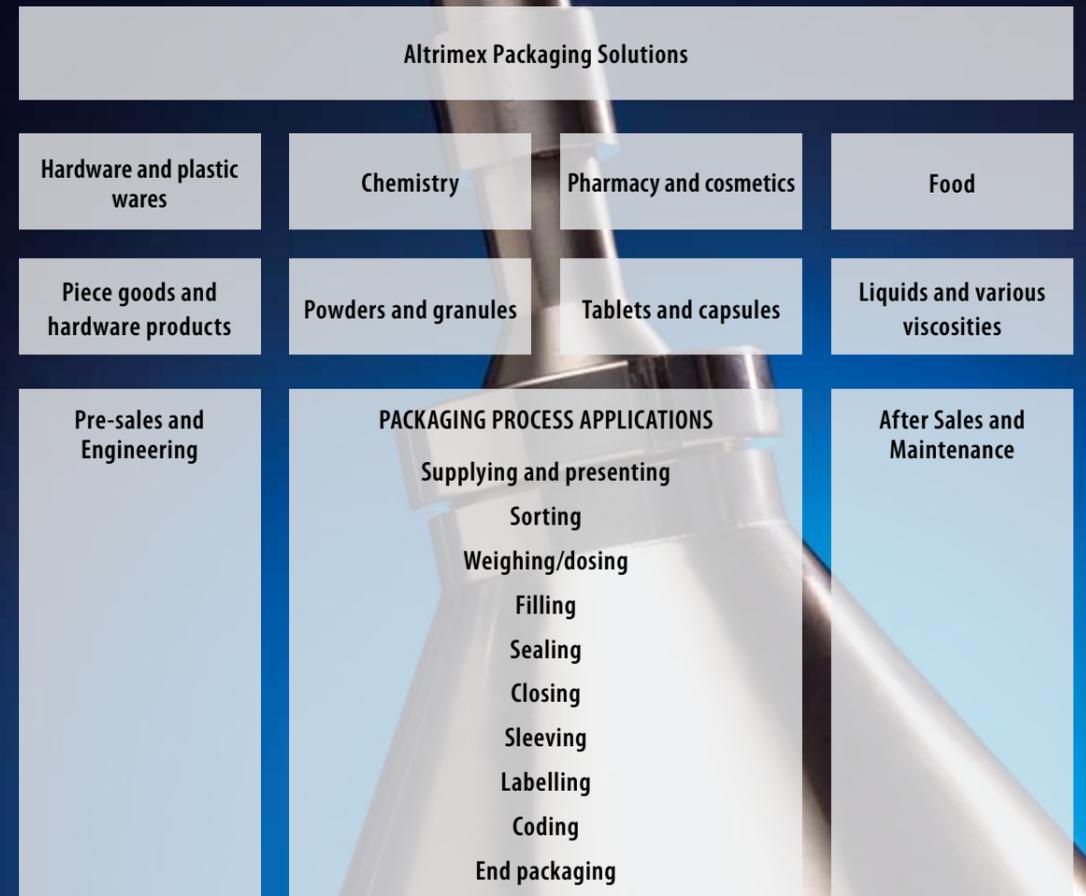
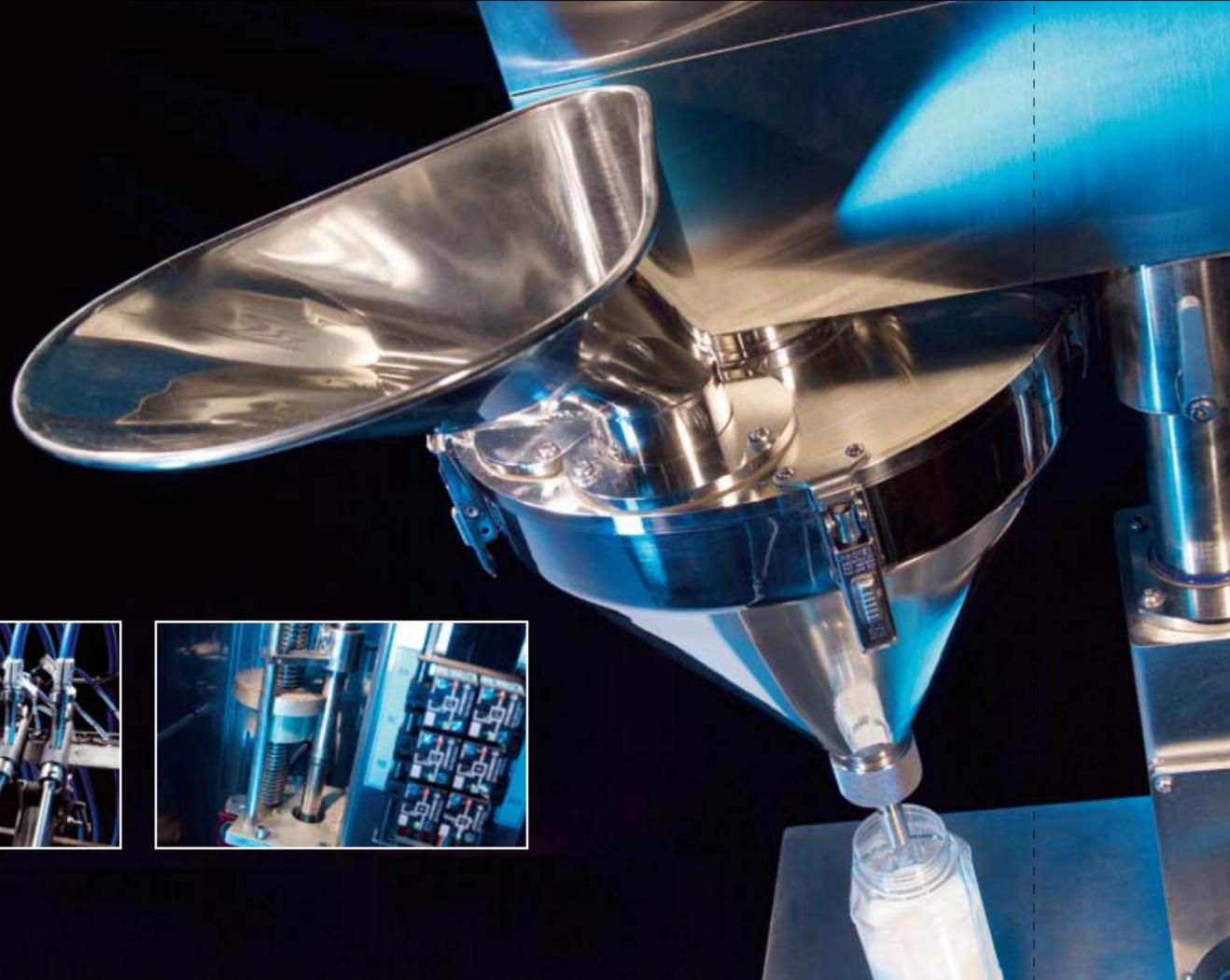


# **ALTRIMEX**

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Packaging Solutions





# Perfection for the eyes

The art of packaging has taken an enormous leap during the last few decades. The time that packaging was just an efficient protection of the product is far behind us.

Producers are conscious of the fact that critical and innovative packaging can dramatically increase product efficiency and keep a lid on the logistics costs. And possibly even more important: packaging is an essential tool for positioning and is part of what determines the image of the brand. It makes sense, therefore, that manufacturers have high requirements for their packaging processes. The end result must be perfect in every way. Altrimex' strength therefore lies not only in delivering packaging machines, but especially in offering solutions; application of knowledge and synthesizing custom work modules into an efficient system. We've been doing this since 1973.

## Complete solution

Altrimex takes care of your packaging problems thoroughly and expertly. From advertising, engineering, project guidance, delivery and installation right up to training your operators and continuous optimization of your lines. Our help desk facilities, trouble-shooting service and central parts warehouse are also available to you, of course. Everything is designed to help you package your products as efficiently and effectively as possible. Production loss due to a possible defect or malfunction must be kept to a minimum.

## From small to large

Virtually all systems are characterized by a modular construction. In concrete terms this means: a guaranteed growth track. A semi-automatic stand-alone machine, for example, can grow into a

fully automatic packaging line. Investing in an Altrimex system is therefore a responsible way of investing in the future.

## For any product and any requirement

The Altrimex specialists know their machines and are familiar with all the details of the particular product specifications. One powder differs from another one, after all. And no two liquids are the same. This has consequences for the packaging process. Altrimex understands this and translates this knowledge into custom work. Whatever the product, no matter what kind of quality guarantee, trace-recall registration or link with automating systems you desire: Altrimex can hand you the solution. There are good reasons why Altrimex serves clients all over the world in the hardware and plastic, chemical and pharmaceutical sectors, as well as the cosmetics and food sectors.

# Piece goods and hardware products



During its early years, Altrimex primarily focused on the hardware industry. That experience is distinctly present in the development and delivery of dosing and packaging machines for nails, bolts, screws, rings, clamps and hooks. But that is not all, because the packaging technique for hardware products does not differ that much from that for candies, tokens or other bulk items.

The counting, weighing and packaging lines for piece goods offers solutions for a products range of just a few grams up to large quantities. All our lines can be expanded modularly with supply and end packaging systems and all other conceivable peripheral equipment. Naturally, all are designed and adjusted for your specific needs.



## Multi-head scales

- high speeds
- extreme accuracy
- great flexibility (maximum product length 180 mm)
- weight range up to 12 kg



## Linear scales

- available in various weight ranges
- processes a broad range of product lengths
- micro-processor control, easy to link to network
- easy to expand into an automatic line



## Electric magnetic alignment

- alignment of metal products
- can be integrated into automatic packaging lines
- capacity up to 25 kg of product per alignment cycle
- zero to minimum product damaging



## Counting/weighing scales

- fully automatic packaging line
- combination of various products in one package
- standard modules and easy to modify/expand



# Powders and granules

'Powders and granules' is the collective name for many raw materials of all kinds of types and sizes. From food to non-food in as many different packages: metal, foil, glass, plastic; whatever you wish.

Altrimex offers a wide range of high-quality, efficient dosing and packaging machines for virtually any industry. Weights from milligrams up to industrial wholesale packaging can be dosed and filled with great precision and delivered in any desired packaging. You can choose between manual or semi-automatic dispensing, no matter what kind of dosing or speed you would like. Altrimex engineers are happy to discuss the options with you.

Altrimex' experience with packaging of, for example, spices, baking ingredients and food additives, chocolate sprinkles, muesli and lectin has contributed to the ongoing development of industry-specific designs. Clients in the pharmaceutical and chemical industry also see Altrimex as an expert partner in, for example, dosing and packaging herbicides, rodenticides, cleaning products, veterinary powders or lactose. This is where product knowledge and experience with the latest legislation perfectly meet the requirements of the industry.



### Volumetric worm dosing units

- easy to set volumetric, digital control
- dosing range from 1 gram to 2 kilograms
- semi-automatic or suitable for upgrading to automatic packaging machines (such as sachet machines)



### Servo controlled worm dosing units with scale

- for volumetric as well as weight dosing
- dosing range from 1 gram to 25 kilograms
- for bags, boxes, pails, sachets, etc.
- easy and quick to disassemble and clean
- with ATEX 22 and hygienic designs - optional



### Inline filling systems

- for canisters and pots
- for both volumetric and weight dosing
- in single-head design up to 25 units per minute
- in double-head design for higher speeds up to 50 units per minute



### Rotating filling units

- for glass, plastic or cardboard containers
- speeds varying up to 300 units per minute
- short switching times
- vibration of both the pot and the upper filling funnel

# Tablets and capsules



Altrimex has various systems especially for counting capsules and tablets. They are designed exactly for your situation. Whether it concerns large or small tablet and capsules, from coated to very dusty; the high quality infrared counting sensors, along with an advanced micro processor, ensure that the counting is highly accurate.



The counting system can be used in any environment. Altrimex offers both free-standing variants that are built for manual presentation and variants that are brought in an existing line. They can be placed above automatic packaging systems, such as sachet or cup-filling machines, inline or in rotating pot presentation systems. Of course, all counting systems can be delivered with validated IQ/OQ documents and 21CFR if so desired. You can also find the other division systems in the line at Altrimex. For example, for machines for sorting pots, clean-blowing, filling, closing, induction sealing, labelling and end packaging.



### Counting system with vibration bowl

- suitable for capsules and tablets
- 2 vibration bowls
- maximum speed up to 2,500 tablets per minute
- can be integrated into an automatic line later



### 8 channel counting systems

- linear counting system for medium speed
- 8 counting heads and 8 vibration grooves
- quick disassembly and cleaning possible for product switch
- system can be fully validated



### 12 channel counting systems

- 2 x 6 channel counting system for optimum control and accuracy
- infrared counting sensors
- integrated vacuuming
- IQ/OQ documentation available



# Liquids

'Liquids' is a broad concept. Every product group has unique characteristics and packaging requirements. The requirements for a filling and packaging line for a thick paste are very different than those for fill methylated spirits or an exclusive perfume, what to speak of filling a liquid that has solid particles, such as a sauce with little pieces of mushroom. Yet, Altrimex is able to meet virtually any required specifications, no matter how high the hygienic, quality or safety requirements are.

From semi-automatic and linear to rotating filling machines with a processing capacity from a few millimetres to hundreds of litres, filling glasses or plastic containers, bottles, drums and ampoules: anything is possible. Of course, Altrimex also supplies all the accompanying peripheral equipment, such as bottle supports, box supports and shrink wrap lines.

All Altrimex liquid fillers are delivered standard in stainless steel and made with high quality components. Of course, they are DIN- and CE-standardized. Within our range you will find semi-automatons, multi-fill automatons, flow meters and bulk drum fillers, which will be fully adjusted according to your specifications in order to seamlessly match your production process.



## Systems for setting up bottles

- fully automatic systems for setting up bottles and containers
- suitable for plastic bottles and containers from 50 ml to 5-litre jerry cans
- speeds up to 250 units per minute
- quick and easy to construct with a few changeable parts
- available with vacuum belt, turning station, operating panel and anti-scratch finishing



## Semi-automatic filling systems

- accurate filling by weight, volumetric or with flow meter technology
- for all liquids in any environment
- for bottles, containers, drums and IBCs



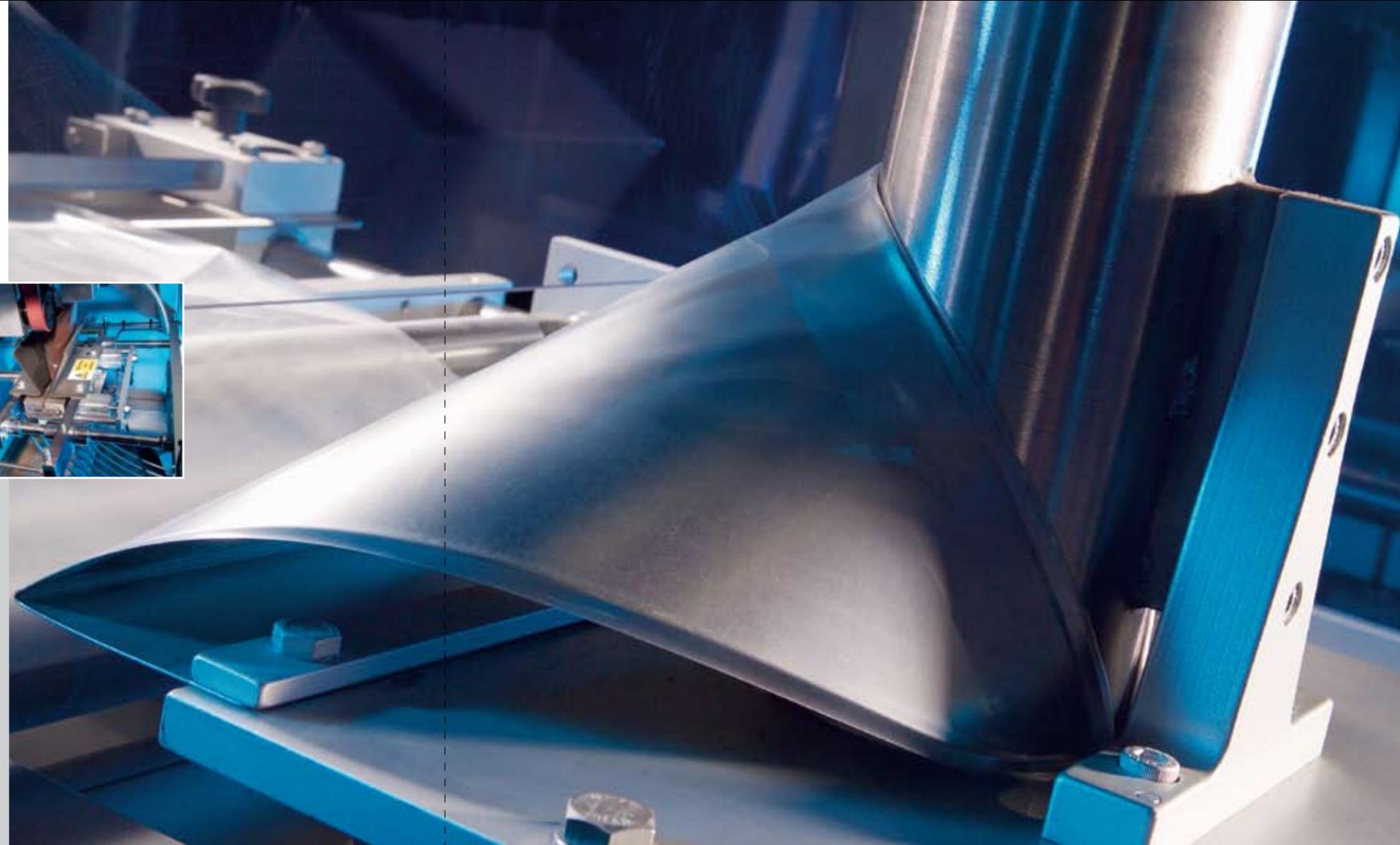
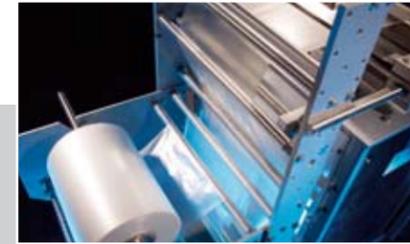
## Linear filling systems

- fully automatic filling systems with flow meters or cylinders
- without changeable parts, quick to set up for the next product or container
- high quality with the best possible results
- volumes from 20 ml to 35 litres
- 100% cleaning, CIP-control
- also for heavy chemical and explosion-free spaces
- also available in a double design, 2 x 12 head system (250 units per minute)



## Rotating filling and closing systems

- fully automatic rotating systems for high speeds
- volumes from 20 ml to 5 litres
- one control for two disciplines in compact solution
- designs for the food and chemical industries



# Closing, sealing, labelling and end packaging

After dosing and filling, the packaging is first closed. Altrimex offers the right closing machine for each product, each closing method and each production environment. Whether it is a screwed, rolled or pressed lid, in cylindrical or tailored shape, no matter what kind of material. Whether your product is liquid, pasty, or solid, sensitive or aggressive.

Each type of packaging must be recognizable to the consumer in a unique way. Aside from the marketing thoughts behind this identification, legislation and quality control also always play a significant role. Finishing options vary, from applying a single pre-printed label to high speed printing and coding. Control systems are available, which immediately check for unicity. Thus you can guarantee 100% traceability.

Although a certain image is important for the product packaging, the product must reach the consumer in good condition and it is important that the transport can happen efficiently and safely. Altrimex likes to assist you from the beginning stages with your decisions and ultimately ensure the right machine for you.



## Lid-closing machines

- lid-closing systems for pressure, shrink and screw-top lids
- single head systems for low speeds
- rotating systems for high speeds
- meets high requirements for food and pharmacy
- mechanical or servo-driven



## Induction sealing systems

- compact machines, mounted above your transport conveyer
- fully automated, air-cooled, energy-efficient
- for from Ø 20 mm to 120 mm
- can be integrated with fully automatic production lines with changeable conveyer speeds
- wide assortment of safety measures available



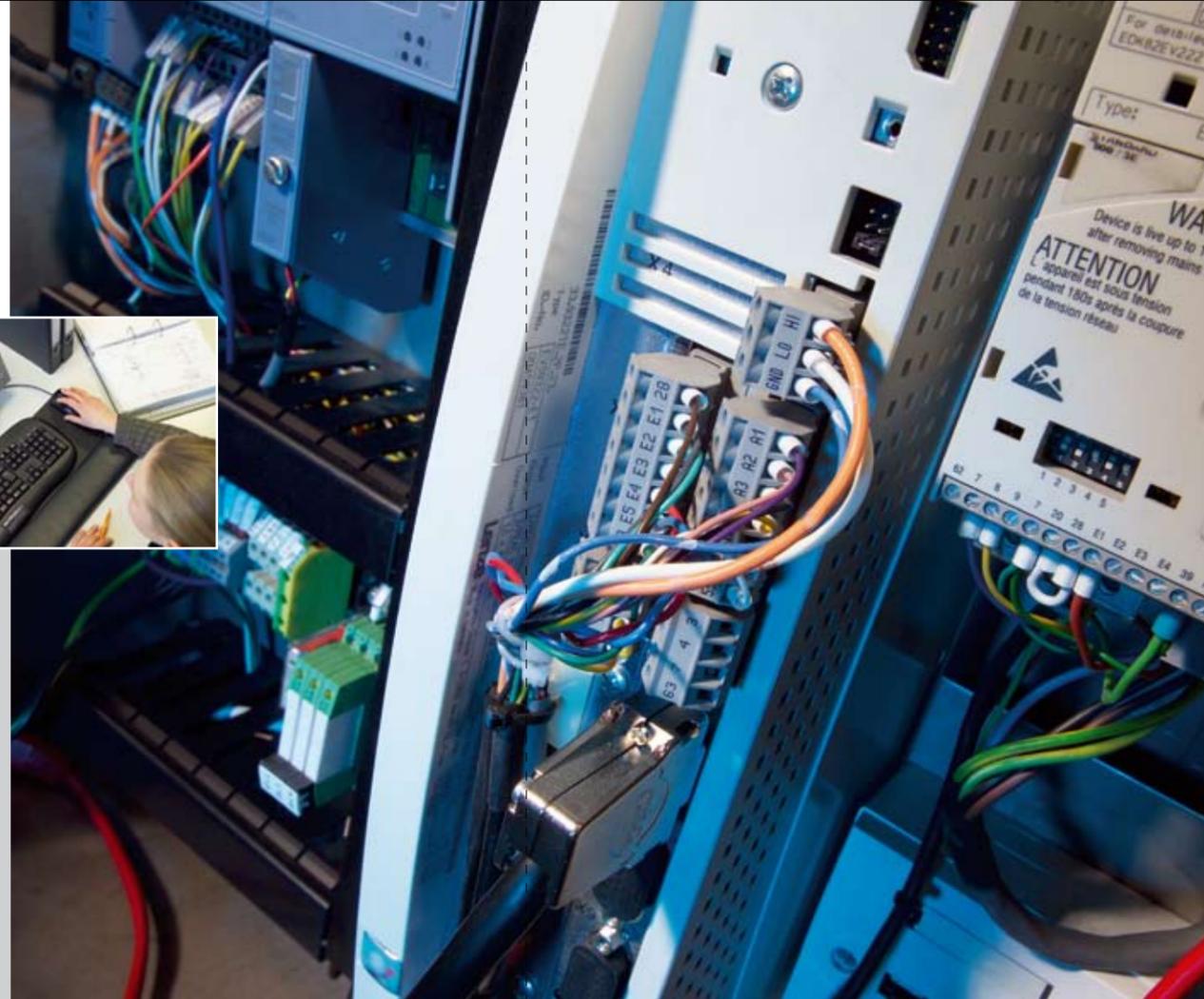
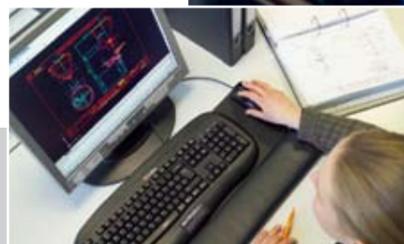
## Labelling systems

- high quality systems for application of self-adhesive labels
- possibility for several labels per packaging
- motion control system for synchronization of the labelling speed on the labelling heads
- for any production environment
- aligned labelling possible



## End packing systems

- depalletizers
- shrink wrap systems
- boxes-packing systems
- tray and wrap-around systems
- palletizers
- robot technology



# Engineering

Every production process is different and the purchase of a machine is often a significant investment. It is therefore crucially important to carry out a thorough analysis first. The Altrimex engineers are available to you, starting from your first contact. They look with you and provide advice regarding the available space, supply, packaging design, efficiency and applicable legislation. The engineers coordinate the project and guide you every step of the way. They will deliver the design of your new machine or line, provide the required diagrams, manuals and (CE and ATEX) documents, as well as practical advice about your production space and installation. All this is in consultation with your supplier or materials or equipment as well as ours. All worries are taken out of your hands, even after the installation.

## Our partners

Altrimex has exclusive agreements with over 25 reputable suppliers of packaging lines. The main thing these companies have in common is that they are all leaders in technology, have a large R&D-capacity and a clear company philosophy. Long-term relationships and cooperative connections have been built and developed with them. An enormous think tank has been created in this way, in which innovations and client-specific requirements are discussed and worked out on a daily basis. For each project, Altrimex sees which supplier is the most suitable.

# After Sales

Introduction to our After Sales department begins with the installation of the machine(s). Our technicians take care of the construction, training and easy introduction and use. At the time of delivery the maintenance schedule is set up with you right away, and clear agreements are made regarding which (periodic) maintenance activities will be carried out by Altrimex and which ones by your own people. In this way we proactively prevent interruptions and defects together and we keep the line in excellent condition.

## Optimization

The packaging lines have been developed with a view to being used for many years. The After Sales department will continue to be your full service partner during this period. If there are changes in the production process which cause your requirements of the machines to also change, Altrimex will search for an effective solution and adjustments, without forgetting possible extra training for your staff. We consider optimization to be a continuous process. By ensuring that your packaging line and control are always up-to-date we prevent stagnation, increase efficiency and lengthen the lifespan of the equipment. In other words, with Altrimex you get the most out of your investment.

# RKM Leasing

Depreciations, recovery times, cost-effectiveness, efficiency, warranties, reaction times; all these aspects are crucial and are becoming increasingly important. The increasing demand for clear insight into the Cost of Ownership has led Altrimex to create a company especially for this: RKM Leasing. RKM Leasing is happy to assist you with all your questions about financing your packaging line. You can count on them for the financial planning, guidance and realization of the financing.

## Revision

If your line has become out-dated and no longer optimum, but there is not yet sufficient impetus to purchase a new one, After Sales can take of revision. More drastic technical adjustment will be made on the mechanical level to give your line a 'second life'.

## Acute solutions

Although we do everything we can to prevent problems with your packaging equipment, sometimes acute problems occur anyway. Our technicians are available to assist you with these 24 hours a day. First they will assist you by phone. If that doesn't help, the serviceman will login remotely – depending on the equipment – or will come to you. It is good to know that we keep 80 per cent of all spare parts in stock. Within Europe, delivery takes at most 24 hours and outside of Europe, no longer than three days (excluding customs). Through our world-wide network, various parts can also be delivered to you right away. Altrimex does everything it can to solve the problem as quickly as possible.



## In service of your product

Altrimex Packaging Solutions offers custom packaging units for piece goods and hardware items, powders and granulates, tablets and capsules and liquids. Innovative and efficient solutions, which get the optimum yield from your packaging lines. The close cooperation with reliable suppliers and the modular construction of our systems form the basis for quality that last for years, as well as for continuity and reliability. With over 35 years of experience, we are partners with producers all over the world, in the chemistry, pharmacy, plastics, hardware and food industries.



### Postal address

Postbus 6098  
5700 ET Helmond, Holland

**E** [info@altrimex.nl](mailto:info@altrimex.nl)

**I** [www.altrimex.nl](http://www.altrimex.nl)

### Office

Zuiddijk 9  
5705 CS Helmond, Holland

**T** +31 (0)492 - 52 74 75

**F** +31 (0)492 - 54 64 98

### Production and warehouse

Kortedijk 10  
5705 CV Helmond, Holland

**T** +31 (0)492 - 75 13 34

**F** +31 (0)492 - 52 32 60