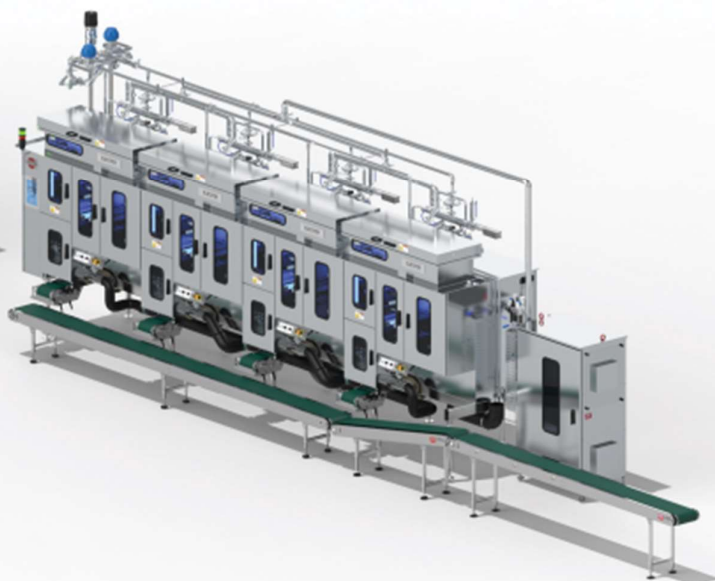
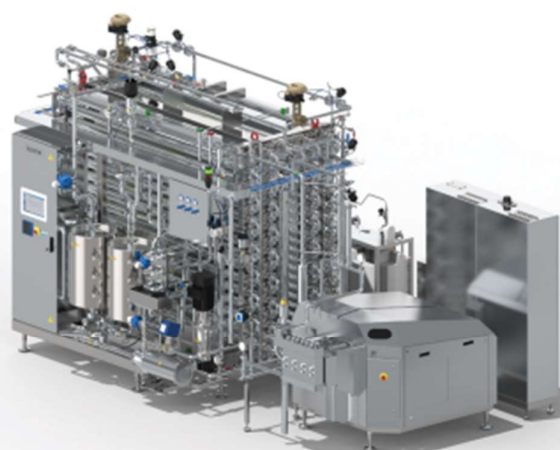


NUMBER ONE IN POUCH



ELECSTER COMPLETE UHT LINES



UHT PROCESSING STERILIZERS

- EL-2700 2700 LPH
- EL-4500 4500 LPH
- EL-6300 6300 LPH
- EL-10800 10800 LPH

ASEPTIC PACKAGING MACHINES

- EA-4000 SINGLE HEAD
- EA-8000 DOUBLE HEAD
- EA-12000 TRIPLE HEAD
- EA-16000 QUAD HEAD

COMPLETE UHT LINE FROM ONE SUPPLIER

Compact system with optimized capacities. Elecster processing and packaging machines are tailored to work as a complete line. This is a guarantee for high performance and production efficiency. No need for expensive aseptic buffer tank or separate CIP system, which makes Elecster complete UHT line a cost efficient and space saving solution.

Elecster equipment is designed, assembled and tested in Finland. Test runs are performed on the entire UHT line at the Elecster factory. For this reason, the installation and commissioning of the line is effortless and fast.

Elecster complete UHT line output capacity is from 800 liters per hour up to 10000 liters per hour.

UNDIVIDED RESPONSIBILITY!

Comprehensive support and deep understanding of complete UHT line is a guarantee for smooth production. In case of any problems with the equipment, you deal only with one supplier. Supplier, who knows its own equipment and is able to provide services and spare parts in short time without questioning liability.

AFTER SALES SERVICE

Elecster has comprehensive after sales services which is aiming to fast and reliable customer support. Remote support together with possibility to use recorded process data is the key for instant and time saving problem solving. Wide service engineer network around the globe enables us to be available for our customers in short time.

STERILIZER

ASEPTIC PACKAGING MACHINE



Different kind of dairy and non-dairy products can be processed or packed.

For example:

milk, milk cream, flavoured milk, drinking yoghurt, ice cream mix, custard, plant-based products and cooking sauces.

Maximum dry content 30...35 % and maximum dynamic viscosity ($t=20^{\circ}\text{C}$, Brookfield dig. Viscom. Mod. DV-II sp.2 LV) 810 cps.

ELECSTER STERILIZERS

TYPE	EL-2700	EL-4500	EL-6300	EL-10800
Capacity (l/h)	2700	4500	6300	10800
Steam Consumption (During presterilization) 8 ... 10 bar (kg/h)	85 (250)	145 (320)	210 (500)	350 (700)
Electricity connection (kVa)	60	70	90	130
Homogenizer power 250 bar (kW)	23	38	53	75

TYPE	EL-2700	EL-4500	EL-6300	EL-10800
Floor area needed (m ²)	6,1	6,1	6,6	7,7
Dimensions (excluding homogenizer)				
Width (mm)	1930	1930	2000	2200
Length (mm)	3150	3150	3300	3500
Height (mm)	2800	2800	3000	3200
Weight (kg)	3250	3500	4000	4500
Weight (kg)*	5500	5750	7250	8000

ELECSTER STERILIZERS

Long experience, deep knowledge, high quality components and materials assures the Elecster sterilizer's high product quality and food safety. Sterilizer's construction is stainless steel and complete system includes homogenizer and CIP unit.

Capacity and process temperature of the sterilizer can easily be adjusted to fit different capacities and products. Products like pasteurized milk, powdered milk, flavored milk, low fat cream and drinking yoghurt.

Sterilizer has low utility consumption and the heat regeneration level is approx. 90%. Steam is used as the heating energy source.

RELIABLE AND SECURE PROCESSING

Process temperature is measured by double detector system and controlled by a two-level low temperature alarm. The alarm system shows the possible operation fault through the monitor. The tubular heat exchangers are protected by a security system which informs about the need of intermediate cleaning.

ASEPTIC POUCH PACKAGING MACHINES

Thanks to its modular structure and adjustable volume, Elecster is always able to offer suitable capacity option according to the customer's needs. Capacity up to 16000 pcs/h and 100 ml - 1300 ml pouch sizes available. The packaging machine has one to four packing heads. Maximum capacity of one packaging head is 4000 pcs/h. Reliable and lasting seams are guaranteed by permanently heated sealing devices. The film is sealed inner surface against inner surface. The form of the package is pillow pouch.

Volume based dosing unit is a guarantee for stable and accurate dosing. Automatic film track control and sealing device temperature control ensure minimal packaging material loss.

The metering device and the tubing are sterilized by hot water (>121°C). The integrated air sterilizer equipment maintains the aseptic conditions in the sterile chamber. The packaging material is sterilized with H2O2 and with powerful UV radiation.

Elecster high quality packaging material enables to reach long product shelf-life from 90 days up to 180 days.

ESW / ESW-CIP UNIT



The **ESW** is presterilizing unit for aseptic packaging machine EA-series. (EA-machine connected to an aseptic tank)

The **ESW-CIP** is cleaning unit for aseptic packaging machine EA-series. (EA-machine connected to an aseptic tank)

Unit will be connected to the packaging machine with a set of aseptic valves.

AUTOPACKER / AUTOBOXER UNIT



Elecster Autopacker / Autoboxer unit for pillow pouch automatic handling.

Autopacker fills pouches into a retail carton or plastic box.

Autoboxer fills pouches in uniform order into a retail carton or plastic box.

ASEPTIC POUCH PACKAGING MACHINES

TYPE	EA-4000	EA-8000	EA-12000	EA-16000
Capacity (l/h) 0,1-0,2 l	4000	8000	12000	16000
0,2-0,25 l	4000	8000	12000	16000
0,5 l	3600	7200	10800	14400
1,0 l	3000	6000	9000	12000
Pouch size				
Width (mm)	160	160	160	160
Length (mm)	112-250	112-250	112-250	112-250
Electricity connection (kVa)	6	9	12	15
Compressed air >6bar (Nl/min)	150	300	450	600
Purified steam, 4 bar (kg/h)	15	15	15	15

TYPE	EA-4000	EA-8000	EA-12000	EA-16000	
Floor area needed (m²)	2,8	4,8	6,8	8,8	
Dimensions					
Width (mm)	1900	3500	5100	6700	
Lenght (mm)	1300	1300	1300	1300	
Height (mm)	2300	2300	2300	2300	
Weight (kg)	1800	2800	3800	4800	
PACKAGING MATERIAL YIELD PER ONE KILOGRAM OF FILM					
Pouch size (l)	0,10	0,20	0,25	0,50	1,00
Weight of pouch (g)	1,8	3,1	3,5	4,6	7,0
Yield per kilogram (320mm/90µm)	550	320	285	220	143

ELECSTER – NUMBER ONE IN POUCH

ADVANTAGES OF UHT MILK

Entering a new business area is often challenging both financially and technically. There must be a business idea, how to make your investment work and payback. Elecster Aseptic Pouch gives excellent tools for that. UHT-treated milk product must be packed in aseptic conditions. Reaching aseptic conditions puts high requirements for the packaging machines and packaging materials; at the same time the operators' qualification in the dairy circumstances plays an important role. This is all specialty area of Elecster know-how and we are happy to guideline your dairy with relevant information and training.



SAFE MILK FROM THE DAIRY TO A DINING TABLE

The distribution of aseptic milk products is easier and cheaper than pasteurized milk, as no cold chain is needed. Aseptic milk will keep its quality, even in case of interruption in the cold chain. Aseptic milk means safe milk from the dairy all the way to a dining table.

SAVINGS WITH ASEPTIC PACKAGING MEANS BETTER PROFITABILITY

UHT-processing with aseptic packaging enables you to plan your production more flexibly and more efficiently. With aseptic production, you may run your production longer, and improved your logistics planning. UHT-treated milk in aseptic pouch facilitates your business by saving costs. From a business angle, aseptic milk allows you to expand your sales area while transportation costs are staying lower. This means more sales and better profitability.

ELECSTER ASEPTIC POUCH



CHOOSE THE SHELF LIFE OF MILK

Besides UHT-treatment and aseptic packaging circumstances, the packaging material is also playing a crucial role in achieving the required shelf life for the milk. With Elecster aseptic packaging system, you may adjust the shelf life of the milk product. For the shelf life of up to 180 days, Elecster has developed special PE-multilayer packaging material suitable for aseptic milk production. These properties are providing good sealing and puncture resistance for the milk pouch.

If 30 days shelf life is not enough, oxygen barrier packaging materials should be used. Elecster long-life packaging materials are giving outstanding oxygen barrier properties compared to regular PE-based materials. Outside temperature, moisture and the sensitivity of the packed product should also be taken into account while choosing the right type of packaging material. By choosing a right kind of packaging material, the shelf life of milk can be pushed up to 6 months. Regardless of choosing PE-based or oxygen-barrier packaging material, the costs will stay far below competitive packaging materials like carton or plastic bottle. This is giving space for your marketing plans and enables you to get a new business in the market segment with less competition. Elecster Aseptic Pouch is not only a cheap way of packing but it is also colourful, attractive and reliable.

