









# Choose a strong Swede when choosing your baler

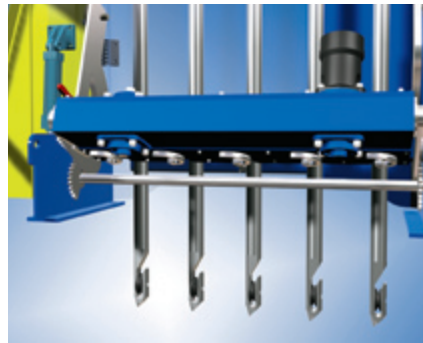
Our LP series of balers provides top quality bales from a wide range of materials – everything from paper, plastic foil, aluminium cans and PET-bottles to municipal- and production waste. In purchasing one you will receive the latest technology, reliable systems, reduced energy usage and cost-effective production.

With Presona's wide range of models and numerous accessories, we offer balers that can be directly adapted to the specific needs of your business.

**Presona balers are designed to bale:** Corrugated cardboard, printing waste, magazines, newspapers, PET-bottles, aluminium cans, plastic foil, municipal waste, residue derived fuel (RDF) and more.

### Bale format:

- bale length adjustable up to 2.5 m
- bale width 1100 mm
- bale height 720 / 750 / 1100 mm



### We give you strength

Presona's strapping system with five vertical strapping wires for maximum operational reliability. Few moving parts for minimum maintenance. Controlled placing of every knot, in corners, provides a stable bale with the minimum use of strapping wire. When baling expansive material, the baler can be equipped with

a second strapping unit with horizontal strapping for maximum stability. The bales are always of the right length and width – with maximum density throughout.

For strapping bales for energy production there is a system which uses a combustible strapping material.



Up to 40% lower energy consumption\*  
More than 10% reduction in costs for strapping material\*\*

\*) \*\*) Average savings compared with the industry average, depending on material and bale length

## Our prepress does half the job



The LP Series is equipped with Presona's unique pre-press technology. The material is pressed downwards for optimal filling of the press chamber – excess material



does not need to be cut off – which reduces both wear and the risk of stoppages. Here there is a pre-compression of the material and all of the power is used for compression

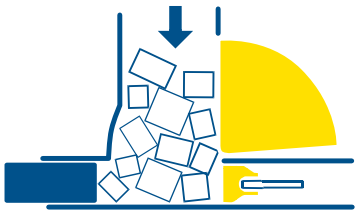


– no power is wasted on cutting, vital machine parts are spared, energy consumption is reduced and the installation runs with optimum reliability and cost-effectiveness.

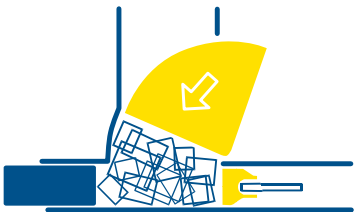


# The prepresser technique in action

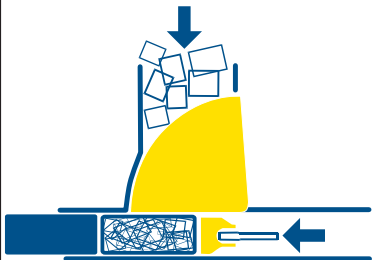
## Pressing sequence EH, VH and CH models



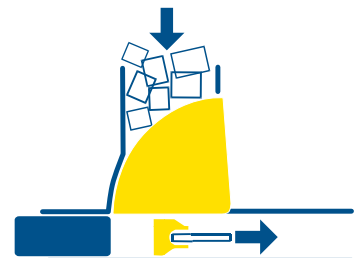
Prepress and main press in their starting positions. Press chamber full.



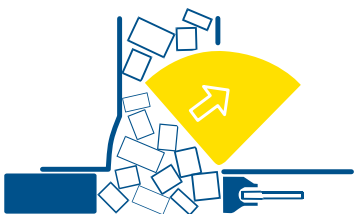
Prepress forces material down into press chamber.



Main ram compresses material with maximum pressure. Conveyor continues to feed material to hopper.



Strapping begins when preset bale length is reached. Main ram continues in operation.



Prepress opens and material stacked on top of the prepress falls into and fills press chamber.

## Pressing sequence DH and XH models

*Baling of average weight and low density material. Maximum feed opening.*



Prepress and main press in their starting positions. Press chamber full.



Prepress lowered 45°.



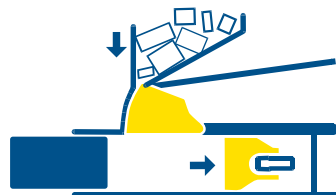
Prepress carriage advances.



Prepress forces material into press chamber.



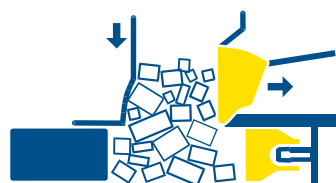
Main ram compresses with maximum pressure. Feed from conveyor to hopper above prepress resumed.



Main ram continues in operation. Strapping begins when preset bale length is reached. Conveyor continues to feed material to hopper.



Prepress opens and material in hopper falls into press chamber.



Prepress returns to starting position.

*Baling of dense material. Feed opening reduced to half.*



The DH and XH models are equipped with an adjustable feed opening to ensure optimum compression and the correct bale length when baling heavy material. The pressing sequence is the same but the start positions of both prepress and main ram are half way into the press chamber, thus reducing the press chamber volume by 50%.



Prepress returns to starting position.



# Strong, effective, reliable = long lifetime

Presona's wide product range and large selection of accessories not only equips you for today's needs, it prepares you for tomorrow's as well.

- Your machine is tailor-made for your precise needs with a focus on safety and reliability
- We will help you all the way from the initial contact until your machine is running and we will train you and your employees.
- You will receive easily accessible and comprehensive documentation.
- We will provide you with fast reliable support if a problem arises with your machine. This also applies to the availability of spare parts.
- You will obtain maximum reliability through signing a contract for preventive maintenance.



## Easy to change material

The same press model can be used for many different materials. It's the material that decides how the press will work. In the control system's work programme, various parameters are stored for each material that is baled. When it's time to change baling material, it's easy to make the adjustments from the control panel. The progress of work in the installation is shown continuously on the control panel display.

Set the press values in accordance with the characteristics of the material – then you can easily reset for another material.



## Full control

The Premi operator system is designed to facilitate communication between man and machine. The system is very easy to understand and offers optimum use of the baler with production data and operating information so that you can be sure that the job is being done as well as possible.



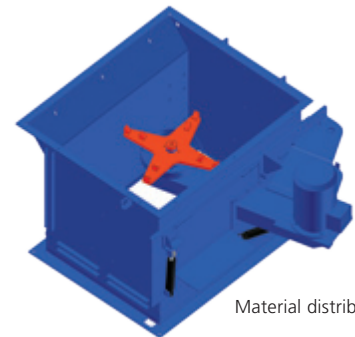
## Focus on safety

On Presona's balers, all moving parts are protected and provided with safety switches. If a shutter or door is opened during operations, the baler is stopped immediately.

All balers are CE-marked and fulfill the requirements of the EU's machine directive.

Examples of optional equipment:

- Material distributor for newspapers and magazines
- Cross-strapping
- Strapping system with combustible strapping material
- Perforator for PET-bottles
- Automatic wire break monitor
- Diverter flap for prefilling hopper
- Inspection platform at feed opening
- Support legs
- Large digit display



Material distributor

## Easy to maintain

Steps and work platforms on the strapping unit and material distributor are standard on Presona balers.

Lubrication points have been designed for easy access and maintenance, making it safe and accessible for all routine maintenance and servicing.



ÖREBRO, SWEDEN

## IL Recycling Partner AB

**IL Recycling Partner sells recycled paper to paper mills in Sweden. The company has 14 recycling plants in Sweden and a smaller number abroad.**

Over 20 years ago Presona and IL in Örebro began cooperation when the first baler was installed.

In October 2005 IL opened its new recycling plant in Örebro, built to deal with more than 150,000 tons per year of recycling paper and plastics from households, industry and trade. The factory is equipped with the best sorting and baling technology available on the market today.

The continuously increasing proportion of plastic was one factor that persuaded IL to choose Presona's pre-press technology again. It provides up to three times as much capacity when baling plastic materials as many traditional shear balers. A baler with pre-press technology also produces significantly heavier bales when pressing plastic.

NORRKÖPING, SWEDEN

## AB Svenska Returpack

**AB Svenska Returpack is responsible for the Swedish deposit system for aluminium cans and recyclable PET-bottles. The deposit system for cans started in 1984 and for recyclable bottles in 1994.**

Returpack's task is to educate about the deposit system, administer the programme and coordinate the return of deposit packages so that every part of the system works. The Swedish government requires that 90% is recycled and Returpack works continuously with its activities and campaigns to promote and hopefully increase the use and recycling of cans and PET-bottles.

In the factory, which is situated in Norrköping, all of Sweden's recyclable aluminium cans and PET bottles are collected. There they are sorted, counted and baled for further transport to recycling companies. The recovered cans are then re-used in the manufacture of plate for new cans. The PET-material is used to manufacture new PET bottles.

The factory, which was built in 2003, handles just over 900 million cans and 400 million PET bottles annually. In order to deal with



Two new balers were purchased for the plant, one LP 100 DH4S and one LP 140 XH2S with a feed opening of 1100 x 2250 mm. The LP 140 XH2S has a combined press force of 210 tons, a bale format of 1100 x 1100 mm and 2 x 75 kW electric motors. This giant presses everything from cardboard to shredded industrial waste and produces up to 50 tons or over 800 cubic meters per hour.



this flow, the plant is equipped with 6 fully automatic balers from Presona in sizes varying from 40 to 100 tons press force. There are also two Presona perforators for mechanical perforation of PET bottles – a guarantee for obtaining maximum bale weight.

Bale weight for perforated PET bottles pressed in an LP 80 VHK is approximately 400 kg/m<sup>3</sup> which gives optimum loading capacity for a trailer or container.

CRÖBERN, GERMANY

## MBA Cröbern

**The German company Linde-KCA-Dresden GmbH, which is part of the Linde Group, designs, supplies and builds complex plants for the pharmaceutical, chemical and environmental industries.**

In 2003, Linde obtained an order from SITA Ost GmbH & Co. KG., and in June 2005, Germany's most modern and hitherto largest plant for the processing of industrial and household waste was opened in Cröbern near Leipzig. The plant, which is run by WEV (Westächsische Entsorgungs- und Verwertungsgesellschaft mbH), is designed to handle 300,000 tons of household and industrial waste per year.

The incoming material is sorted, separated and shredded in different fractions. The organic fraction is biologically treated in order to be disposed of in an environmentally safe manner. The combustible fraction is shredded and non-combustible remnants are carefully separated so that a high value fuel is obtained, so-called RDF (residue derived fuel).



The material, which is delivered to incineration plants for energy production, must be baled for efficient handling, storage and transport.

The plant contains two Presona LP 50 EHF2 balers fitted with strapping systems for polypropylene yarn. This material is combustible – a requirement for baling RDF. Each machine has the capacity to press more than 20 tons of material\* per hour into compact cubes which are easy to stack and handle.

*\*) Depending on material pre-bale densities*





Presona LP 50 EH1



Presona LP 50 VH2



Presona LP 100 CH4S



Presona LP 140 XH2S



Presona LP 65 VH2

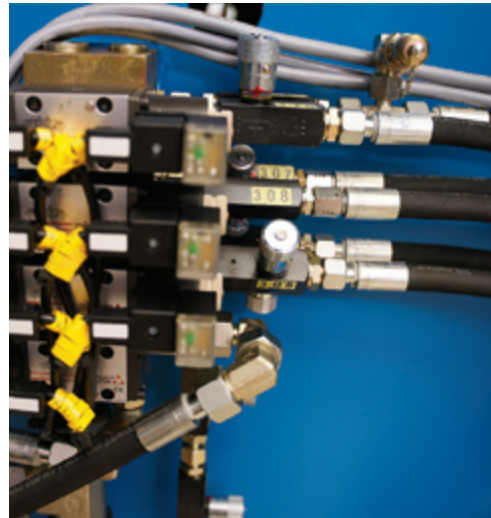




Presona AB is one of the world's leading designers and manufacturers of balers with pre-pressing technology for efficient baling of the most varieties of material – from paper and plastic to household and industrial waste. The product range also includes pneumatic waste extraction systems for the graphics industry, paper and packaging manufacturers and sorting plants for household waste.

The company is based in Tomelilla in southern Sweden close to the continent. The head office and factory are housed in modern airy buildings in which the working environment has been prioritized. We have an efficient production flow and cooperate with established suppliers in order to ensure quality at every stage.

Presona's safety and environmental awareness permeates into our work – our employees' working environment must be safe (for example, we paint our equipment with water-based paints). It is paramount to us that the equipment we supply always offers the customer the greatest possible security.



**Presona – one of the world's leading designers and manufacturers of balers**

**PRESONA'S BALERS ARE (ALMOST) EVERYWHERE**

Algeria, Argentina, Australia, Austria, Bahrain, Belgium, Belorussia, Brazil, Bulgaria, Canada, China, Croatia, Cuba, Czech Republic, Denmark, Egypt, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Greece, Hungary, Iceland, India, Indonesia, Iran, Ireland, Israel, Italy, Kazakhstan, Korea, Kuwait, Latvia, Lichtenstein, Lithuania, Malaysia, Mexico, Moldavia, Morocco, Netherlands, Norway, Pakistan, Poland, Réunion, Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Arab Emirates, USA

