

STRETCHMAGAZINE

A customer magazine published by Cyklop Teknik AB



Stretch wrapping technology through innovation

Machines that prove cheaper in the long run >>>

From empty PET bottles to concrete blocks >>>

New speed records with the novel GL 2000 Twin >>>

CYKLOP
CYKLOP TEKNIK AB

Welcome to our customer magazine!



With this magazine you will be able to see how your company can acquire safer methods of moving your goods, while at the same time wrapping them in a more gentle fashion. The answer lies in our stretch film machines, which use our patented Power Ecostretch Plus.

At Cyklop Teknik AB we have been producing stretch film machines since 1993. Today we have local representation in more than fifty countries. The company is part of Cyklop International, the company was founded in 1912 by Emil Hoffmann in Cologne.

The development of our machines and their entire production process takes place in Burseryd, in southwest of Sweden. From here, we have shipped more than 11,000 machines to destinations throughout the world. Our latest novelty is the GL 2000 Twin, which is something of a flagship to us, and which has a high production capacity. It is the fastest machine we have ever built. Naturally, the magazine covers this novelty in an article which can be found further on.

Pleasant reading!

Bo Eriksson, Manager, Cyklop Teknik AB

Machines that prove cheaper in the long run

Cyklop Teknik's stretch film machines are not necessarily the cheapest to purchase, but due to their economy of operation, the extra expense should soon be earned back.

"At the same time you help the environment," says Managing Director Bo Eriksson.

The fact that there is a difference between various stretch film machines becomes readily apparent when listening to Bo Eriksson. Cyklop Teknik AB has developed a patented system of its own for pre-stretching the plastic film before it is wrapped around the goods.

"One metre of un-stretched film becomes five metres of stretched film, which means that less plastic film is used."

Naturally this means that the wrapping effects the environment less, while at the same time saving money for the company which uses the stretch film machines.

"An important question that one, as

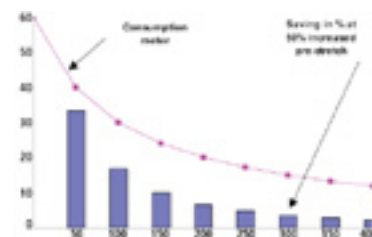
a company, has to ask oneself is how much it will cost to pack a pallet."

Power Ecostrech Plus

The system is called Power Ecostretch Plus and has been patented by Cyklop Teknik AB. It works in such a manner that the film passes through two rollers before it is wrapped around the goods. The speed of the second roller is higher than that of the first, and due to this the film is stretched out. It is possible to adjust just how much of a degree of stretch one wants, depending on the nature of the goods to be wrapped.

There are seven or eight different preset choices to choose from (depending on the type of the machine), up to a level of 400% pre-stretching. The normal setting is between 200% and 300%, which means that one metre of film becomes between three and four metres.

Thanks to its excellent economy in using film, Cyklop Teknik's stretch film machines have saved much money for companies all over the



This much stretch film consumption can be saved using different pre-stretching settings.



Rikard Alatalo

"From empty PET bottles to concrete

Cyklop Teknik has sold machines to all corners of the world and to innumerable different types of businesses. Some customers, such as Coca-Cola, are globally large and use Cyklop Teknik's machines in their plants in places such as Shanghai, Stockholm, Kazakhstan, Moscow and Ukraine.

Examples of other large customers are the dairy factory of Arla, Rynkeby Foods in Denmark, the Mercadona grocery chain in Spain, Edeka in Germany and Denmark, not to mention SCA in Sweden, Holland and Germany.

Even if dissimilar types of businesses may differ a great deal, the Cyklop Teknik machines can be adapted for all shapes of cargoes. As

a further example, Bo Eriksson mentions empty PET bottles on the one hand, and concrete blocks on the other. Partly because a very light cargo may be difficult to cover with film, and on the other hand sharp corners, like those on concrete blocks, can create problems.

"These are very different prerequisites, but our machines can handle both of them. Their



Anette Johansson assembles electronics. In the background: Agneta Engvall and Martin Sködl

"One metre of un-stretched film becomes five metres of stretched film, which means that less plastic film is used."

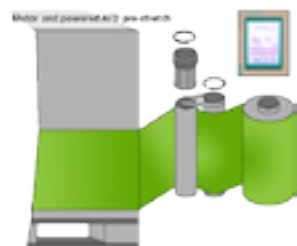
world. In certain instances it can amount to millions in running costs.

"And we can guarantee that the machines' level of consumption is always the same, with the same pallets and the same film. The figures do not change."

Calculate how much you save

The advantages of the system do not end there. Even more good news is that the stretching of the film delivers a greater level of stability to the packed goods, which in turn leads to less damage sustained by goods that are being transported.

If you would like to calculate how much your company could save by using the Power Ecostretch Plus technique, there is a calculator on Cyklop Teknik's web site at: www.cyklopteknik.se ■



When the film runs between the rollers it becomes stretched because the speed of the second roller is faster than that of the first.

blocks"

sensitivity and construction is such that they manage almost anything."

Adapted to the needs of the customers

Some customers need completely watertight plastic wrappings, which can be achieved by wrapping the goods and then adding a top film. Many times, machines are adapted to the needs of the customers, with any alterations according to their surroundings made as needed. And should spare parts be required, Cyklop Teknik will stock these for at least ten years, and send them off the same day that the order is received. ■



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Fully and semi-automatically Horizontally and vertically

A stretch film machine is simply and only a stretch film machine. They can come in all sorts of shapes, depending on what needs to be wrapped and how much there is of it, among other things.

These fully automatic machines wrap plastic film around the goods using automation, while the semi-automatics require initial manual tying of the plastic film. There are also so-called horizontal stretch film machines, which can wrap oblong goods such as wooden articles.

Fully automatic, for the highest possible speed

These are machines that fit a production line in which the goods are fully and securely automatically wrapped.

"We have machines both with a turntable or with arm or a ring that rotates around a stationary pallet. If one is wrapping unstable goods, a machine where the pallet stays put may be the best choice," says Bo Eriksson.

An example of light and unstable goods can consist of corrugated card-

board rolls with a height of three metres. This is something that the Cyklop Teknik machines easily cope with as they are sensitive to changes in strain.

"The machines can feel it, so that there will be an even strain on the goods the whole time. And even if the film is stretched, it will not be pulled against the goods but will instead be gently placed on them." ■



In addition to the novel GL 2000 Twin, which you can read more about on the next page, the GL 1300 CTS belongs to this group of machines. It is well suited for companies that do not have the largest of line flows, up to forty pallets per hour. This is a rapidly installed system that can be set up in one day. It makes do without compressed air, so only electricity is required.



The GL 400 is one of Cyklop Teknik's semi-automatic machines, which has nine individual programs and naturally also avails itself of the Power Eco Stretch+ system.

Fully automatic but wholly compact

The semi-automatic need a certain amount of manual effort, namely someone who has to fasten the film before any wrapping can take place. The advantage is that they require less space and are cheaper, and also that they avail themselves of the same technique as their fully automatic siblings.

"Out of all our machine models, our semi-automatic machines with turntables are the ones that sell the most. They are also available in a tandem version, in which one pallet can be wrapped while the next pallet is made ready on the adjacent turntable." ■

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New speed records with double pre-stretching elements

“This is the fastest machine that we ever built,” says Bo Eriksson. The machine that he is talking about is the brand-new GL 2000 Twin, with a capacity of up to 180 pallets an hour. The secret lies in the machine having double pre-stretching devices.

This fully automatic machine also has a further refinement, which gives it additional flexibility.

“It is possible to use two different kinds of top films at the same time, for example two films of different lengths, for different types of goods.”

Lars Karlsson is an electrical and programming engineer at Cyklop Teknik AB with long experience of stretch film techniques. He has participated in the development of the new machine. He relates that, in principle, one can cut the film wrapping time in half using the GL 2000 Twin.

“After the ring has rotated five times, you will have gained ten revolutions of plastic,” he says.

Fast and safe

The machine is fast, and very safe. For example, should some of the goods to be wrapped tip over and place themselves in the way when the top film is to be applied, optical sensors will detect this and will stop the machines so that nothing is damaged.

Throughout the entire process a display shows amongst other things, how



This is the GL 2000 Twin in action, wrapping a pallet of goods. Note the twin devices which encircle the pallet.

much film is being used and how many pallets have been wrapped.

Lars also adds that the machine can be adjusted by a number of parameters, so that different wrapping patterns can be created; this ability solves a good many wrapping complications.

A fair amount of intelligence

Developing the GL 2000 Twin has resulted in a machine with a fair amount of ‘intelligence’. For example, should the film run out in one of the film devices, the machine will adjust itself to the situation so that everything will still be wrapped correctly, using only the remaining film device. Thanks to this process, there is no need to stop the machine completely, which



Lars Karlsson took part in developing the new machine, and has been present since the beginning of Cyklop Teknik AB itself.

would mean a loss of production time. Additionally, when the film runs out, the machine will make sure that the element which needs to be reloaded will end up at the front of the machine, thereby facilitating reloading.

“This is actually the most advanced product that we have developed so far,” Bo Eriksson says proudly. ■



With the option of two different top films, the GL 2000 Twin generates extra possibilities.



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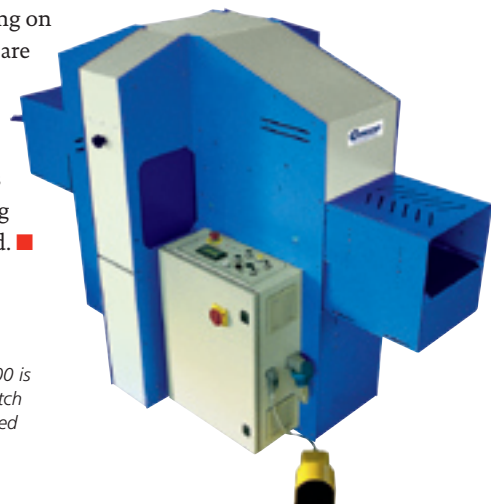
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Certain goods are best suited for horizontal wrapping

Wooden goods, for example. It has become more and more common for wooden floors to be packed in smaller parcels.

"To be more accurate, wooden goods can be sensitive while they are being unpacked," Bo Eriksson says. "There is a risk of damaging the goods if a knife or a pair of scissors is used to cut away the plastic. But for that problem an imaginative solution has been found.

"At the same time as the goods are being wrapped, a thread is inserted along the whole length of the package. By pulling on this when the goods are being unpacked, the plastic is opened up smoothly and easily and the goods are not at risk of being scratched or damaged. ■



Cyklop Speed Wrapper 400 is one of the horizontal stretch film machines being offered by Cyklop Teknik AB.

Complement with corner protection

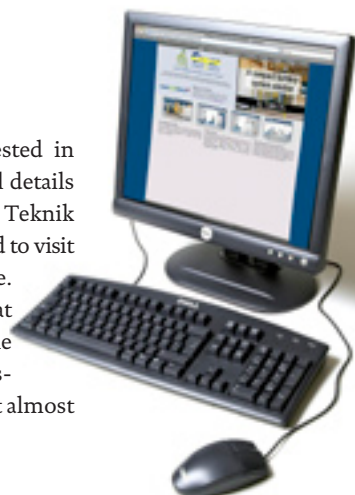
Certain goods may require extra packing in the form of corner protection. In cooperation with Mercon, Cyklop Teknik AB offers a unique, highly effective and fully automatic solution to this.

"The advantage is that one doesn't need pre-folded corrugated cardboard to protect the corners; instead the cardboard is folded in connection with applying the plastic. This is something that lowers the cost of corrugated cardboard, as there is no need for pre-folded cardboard," says Bo Eriksson.

Mercon Corner Protector is offered as a complete package along with the GL 1000 stretch film machine. ■

A crammed web site

Anyone who is interested in gaining more technical details concerning the Cyklop Teknik machines is best advised to visit www.cyklopteknik.se. Films of the machines at work are also available and have more exhaustive information about almost everything. ■





Kennie Hansson shows how the Strap Cutter CBC, happily devours packing straps.

Not only stretch film machines...

Cyklop Teknik specialises in stretch film machines, but also offers other clever solutions. One of them is the strap cutter known as Strap Cutter CBC, which helps to bring order and space where packing straps otherwise tend to sprawl.

"Everybody knows what a mess used packing straps can create, but this strap cutter chews both metal and plastic straps with a ferocious appetite," says Bo Eriksson.

The strap cutter can be fastened to any barrel and after it has cut the straps there are only small, short bits of metal and plastic left, which will require only a fraction of the space needed. For example, it cuts metal straps of up to 32 mm in width, into pieces 85 mm long.

Anders Sääv from the Eksjö Industri AB lumber mill has experienced how much space can be saved by CBC. About three years ago they bought two strap cutters, and a year or two later an additional two.

"We get a lot of steel and plastic straps in our business, and they are bulky. Most of it is just air."

He is of the opinion that the strap cutters have been a flexible method of minimising the space taken up by the steel and plastic straps.

"We have one at each station; you just push in one end of the strap and the machine will feed in the rest."

Eksjö Industri AB is a clear example of how much empty space can be saved with the help of a CBC.

"Before we had strap cutters we had to empty barrels full of straps each second or third day. Now that we cut the straps it takes months before we have filled one barrel." ■

"Before we had strap cutters we had to empty barrels full of straps each second or third day. Now that we cut the straps it takes months before we have filled one barrel."

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We're the ones who work at Cyklop Teknik AB in Burseryd in southern Sweden. Here we develop and produce solutions for rationalising the activity of companies all over the world.

Cyklop International exists in more than fifty countries

Cyklop International, the parent company of Cyklop Teknik, is represented all over the world, and it is through these distributors that the Cyklop Teknik machines are sold.

"All sales go through them, but we are also present, not least in a support capacity should any questions arise," Bo Eriksson adds. ■



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