

## Industry Solutions 'Building Industry'

A Customized Cyklop System Solution For Any Requirement.



**CYKLOP**  
INTERNATIONAL

THE  
STRAPPING  
COMPANY

# Cyklop System Solutions

## By Practitioners, For Practitioners.

In the building industry, standard run-of-the-mill solutions can only be a second-best choice – what is needed are system solutions. Cyklop is very well aware of the problems and requirements that exist in the industry. With our industry-specific expertise, field-tested application know-how and high-quality products, we are able to offer solutions geared exactly to the specific requirements. When advising our customers, we focus both on realizing rational and productive work-flows and on high economic efficiency. Above all, we make no compromises where load securement is concerned.



XP-422-H and XF-172-M

Cyklop a technology leader in PET strapping. Machines and straps interact to provide that consistent high quality and reproducible holding power which are so important in the building industry in particular. Steel strapping machines can also be used on request.

The strapping line is individually configured to suit the building material with its specific requirements. In addition to the machines required for vertical and horizontal strapping, Cyklops offers top sheet and net

dispensers as well as stretch-wrap machines and hand tools. A range of supplementary equipment to increase productivity can also be configured.

What is important for companies in the building industry, with their high production figures, is not only the technology, but above all, consistent high performance of the machines. The excellent quality of the Cyklop products ensures a high level of operational reliability, with standby equipment providing additional security.

### The advantages at a glance!

- Cyklop is technology leader in PET strapping
- Cyklop's technology centre and production facility in Cologne
- User training in Cyklop's training centre
- Customized industry-specific advice
- Top quality products
- Service provided worldwide by Cyklop, dense service network, quick reaction times
- Immediate availability of 96 % of all spare parts
- Cyklop is a global player

Cyklop not only has its own training centre, but also a vast service network and guarantees excellent spares replenishment: on average 96 % of all spares are available immediately! In conjunction with customized service contracts and experienced technicians, we can react quickly and provide on request a 'round-the-clock' service.



Cyklop XF-172-M



Cyklop CFH-1 strapping head

## Clay Building Bricks Protection Against Moisture and Corner Breaks.

What counts with strapping machines for clay building bricks is high productivity and careful packaging. After all, brickyards sometimes produce up to several hundred tons of high-grade products daily. It is therefore important that the corners – in particular of the fragile Poroton bricks – remain undamaged. Moreover, for outdoor storage later, the bricks need adequate protection against moisture. The Cyklop system solution meets all these requirements – and very productively.

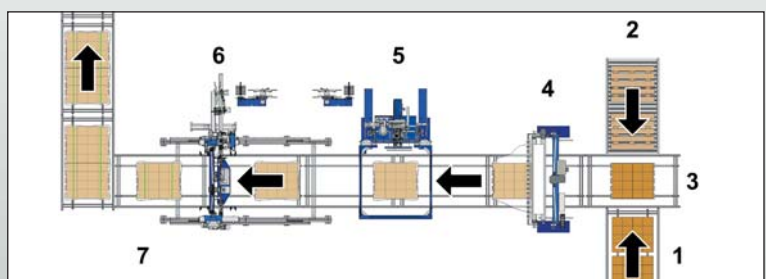


XPV-111-MVB

### The advantages at a glance!

- Quick and automatic strapping using interval technology
- Exemplary operating productivity
- Material-sparing process
- Top sheet application for moisture protection
- Use of polyester straps to protect brick corners
- High holding power of Cyklop PET strap
- Load securement even under difficult transport conditions

The CI-1110-M top sheet dispenser is located at the beginning of the packaging line. The film applied on top of the bricks protects them from moisture and, when printed, is a cheap advertising medium. Cyklop uses PET straps for the subsequent automatic, two- or four-fold horizontal and vertical strapping operations, as steel straps might damage the brick corners. The CFH-1 high-performance head uses interval tensioning to strap particularly gently, quickly, powerfully and – by reducing the dimensions of the PET straps – extremely economically.



- 1. Brick packs: layers arranged on positioning table
- 2. Access of the empty pallets
- 3. Positioning with gripping device, from the positioning table to the packaging line
- 4. CI-1110-M top sheet dispenser
- 5. Horizontal strapping with the XF-172-M
- 6. Vertical strapping with the XPV-111-MVB
- 7. Finish-packed brick packs
- 8. Package transfer to the exit conveyor



CI-1110-M top sheet dispenser



## Sand-lime Bricks

### Double Compression Required.

Sand-lime bricks are frequently used in housing construction because of their good sound insulating properties. Important as regards strapping: sand-lime bricks are considerably heavier than clay bricks. Also, if the load is not compressed longitudinally and crosswise before strapping, or if the straps do not have enough holding power, the corners of the bricks may suffer damage. The Cyklop system solution guarantees high load securement for sand-lime bricks – irrespective of whether pallets are used or not.

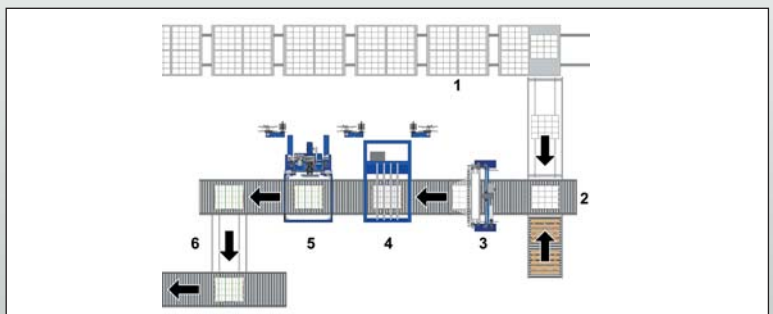


XF-172-M

### The advantages at a glance!

- Packaging is possible with or without pallets
- Quick and automatic strapping
- Top sheet dispenser provides cover protection
- Compression protects against corner damage
- High performance through two powerful strapping heads in one machine
- Vertical and horizontal strapping provide a firm hold

The sand-lime bricks are positioned in stacks at stations 2 and 3 in the packaging line (see diagram). This is important for compression strapping later. In addition, the top sheet is applied as protection against rain and moisture. The pressuring device for cross compression is integrated into the XP-422-H strapping machine which operates with up to two high-performance heads and four strap guides. Finally, the stack is horizontally strapped by the XF-172-M.



- 1. Positioning of sand-lime bricks onto hardening wagon
- 2. Grip lift takes load to the packaging belt and pack is compressed longitudinally
- 3. CI-1110-M top sheet dispenser puts on plastic film
- 4. Strapper XP-422-H, cross compression by the pressuring device
- 5. Horizontal strapper XF-172-M
- 6. Grip turns the package and puts it on the finishing belt



Horizontal strapping of paving blocks

## Paving Blocks/Concrete Goods Three Tasks – One Cyklop Solution.

Load securement of paving blocks must satisfy three particular requirements: horizontal load securement, vertical paving block securement and cover sheet as protection against moisture. To meet these requirements, the pack must be positioned free of any gaps. Using Cyklop interval tensioning technology, the straps are stretched to such an extent that remaining gaps no longer present a problem. Paving block packs not on pallets are stabilized sufficiently to prevent blocks from falling downwards. The number of vertical strappings can be reduced for loads on pallets.



CI-1110-M and XF-172-M

### The advantages at a glance!

- Automatic and quick strapping
- Interval tensioning technology
- Pallet-free packaging possible
- Top sheet application and can also apply an intermediate sheet with net
- Cyklop PET straps for optimum holding power
- Horizontal strapping on the production board even for low layer heights

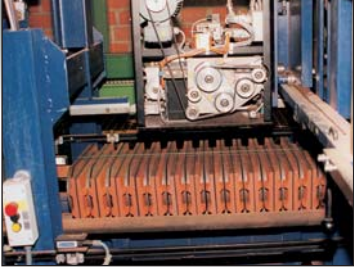
The Cyklop system provides users with a safe and economic solution. The complete strapping operation is carried out quickly and automatically – one operation in only a few seconds!

The high-performance CFH-1 head with Cyklop technology tensions at intervals – thus achieving optimum tension at the paving block stack. In addition, this process reduces the size of the PET straps and less strap is used. Very important: Interval tensioning means there is no danger of the straps tearing at the edge,

despite the very high tension and reduced-size strap. Compact, stable hold for the load is thus guaranteed. The XF-172-M reaches the bottom pack layer already 40 mm above the board level – and optionally even lower. This allows horizontal strapping of any desired layer of blocks in the pack.

Very sensible: The use of the CI-1110-M top sheet dispenser. A top sheet protects the load against rain and moisture up to its destination – at the same time the top sheet serves as an advertising medium

for the company. Cyklop PET straps not only provide high tensioning force, in comparison with steel straps but they also guarantee considerably higher holding power which can reliably absorb jolts and vibrations during transport. This application can be extended to other concrete goods such as, for example, paving stones, plant troughs, curbstones and flush curbs.



Bundling of tiles with the XF-141-DST



XP-111-D

## Roofing Tiles

### Quick Non-stop Strapping.

Every year billions roofing tiles are produced worldwide – a volume which requires powerful and extremely reliable machines. Cyklop offers a strapping system specially designed for the high-speed packaging of roofing tiles – from small packs up to complete pallets. For particularly high volumes, the XF-141-D strapper can as an option even strap while the conveyor belt is moving. A second, standby head can be positioned at a special station to ensure uninterrupted production.



XFV-121-MVB

XV-111-MKB with angleboard feed on top

## Plasterboards

### Load securement through Interval Technology.

Very much the trend – and indispensable in interior decoration: plasterboards. Although very high holding power is required when transporting them, maximum strap tension can not be applied because of their brittleness. The solution: interval tensioning with polyester straps. This Cyklop technology guarantees a load securement with individually adjusted tensioning force and economic use of consumable materials. Angleboards and battens automatically attached in-line provide additional corner protection for the plasterboards.

### Roofing tiles: The advantages at a glance!

- Use of modern technology
- All performance specifications met
- Strapping of moving packs possible
- Replacement head in an emergency
- Optionally integrated service station

### Plasterboards: The advantages at a glance!

- Board breakage prevented by interval tensioning
- High performance also for corner protectors
- Strapping of very small board sizes possible
- Package formation without pallet
- PET straps secure even heavy packages
- Whole process is fully-automatic

# Further Applications

## Thought-out Solutions – Top Service.

### Paving stones

Because of their decorative design, paving stones must be secured very carefully for transport. The Cyklop XF-172-M strapper operates with the field-tested, high-power CFH-1 strapping head and straps the packages at several intervals. This patented technology saves on strapping material, is gentle on surfaces and corners and at the same time provides increased load securement. In addition, film wrapping offers protection against scuffing and moisture.



### Concrete patio stones

Concrete patio stones are often used for paving paths and squares or for land-scape architecture. The Cyklop strappers are designed to apply high holding power for the secure transport of concrete patio stones, while at the same time not damaging the corners or surfaces.



### Top training and service

Our service centre in Cologne is manned by experts who are often able to provide help and advice on the phone. As regards spares, Cyklop has an immediate availability rate of 96 % so that delays in repair work do not even arise. All service technicians are trained in Cyklop's own training centre, which is also available for intensive training of our customers' personnel.

Whether it is the installation of a machine at our customer's, routine maintenance or an immediate repair job in the event of a fault – we are on site with help, advice and service. Cyklop has a vast global service network and guarantees extremely short reaction times in the event of a fault. For customers who require 24/7 service, we can provide this by special arrangement.





### Cyklop GL-1020-M Wrapper

- Fully automatic stretch wrapper with Cyklop Power Eco stretch system for optimal film pre-stretch from 0 to 360 %
- A low tension value can be set for wrapping light products
- Precise and reproducible
- Very easy to operate
- Very smooth running
- Low maintenance



### Cyklop CMT-200

- Rechargeable battery for mobile use
- High tensioning force up to 2,200 N
- Very user-friendly, with single-handed operation
- Very ergonomic
- Touch panel for setting the strap tension and sealing time
- PET strap in different strap widths and thicknesses (width: 12 mm, thickness up to 1.12 mm)
- Suitable for strapping medium-heavy packages



### CFH-1 Strapping Head

- High tensioning force up to 5,500 N
- Interval tensioning technology
- Small dimensioned strapping head
- Easy changing of the sealer
- Service and operator-friendly
- Fully electronic friction sealing
- Odourless, no vapours



### PET/PP Straps

- Cyklop PET straps are available in different roll sizes, strap widths and in the categories Classic 450 N (breaking load up to 8,500 N) and Premium 550 N (breaking load up to 10,200 N).
- For PP strapping operations (no illustration) Cyklop offers complete solutions to meet the required specifications in strap widths from 5.0 to 15.5 mm and different breaking loads from 500 N to 4,500 N.

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