

For plastic strapping
applications

Strappers, modular design

Variable concept, suitable for a
variety of load types, easily
adaptable



3 major types give alternatives for choosing the optimum solution to each individual need.

Sequence of operation

The load is conveyed into the desired strap position. The automatic strapping cycle starts. The strap is fed around the strap track and then optimally tensioned around the load,

sealed and cut off. The sequence will be repeated as per number of straps required for the load.

The XF/XP 112 M machines

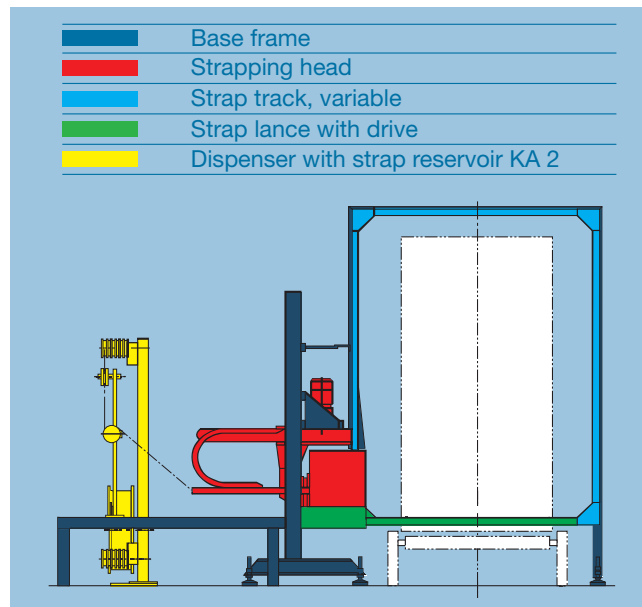
They will strap vertically, with strapping head on the side.
see also picture on frontpage and pictures 12 and 13

Major benefits:

- Compact, little floor space needed.
- Easy access to all mechanical components, for ease of maintenance and servicing.
- Fast and economical to build.

Major specifications:

- Adjustable to conveyor heights from 110 mm min. up to 800 mm max.
- Modular chute sizes to adapt to load width 300 mm min., 2.000 mm max.
load height 500 mm min., 3.000 mm max.
- Head approach 500 mm or 700 mm max.
- Fully electric, 3 Ph + N, 2,0 kW



Picture 2. XP 112, modular design.

The XF 172 M machines

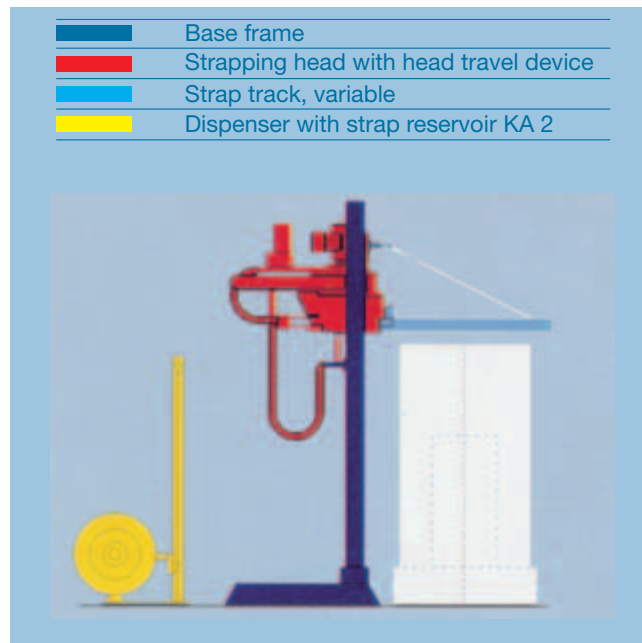
They will strap horizontally, with strapping head on the side.
see also picture 14

Major benefits:

- Standard equipped with the modules travelling head (700 mm) and tension equalising. The final tension of the strap on the load is always optimum.
- Standard equipped with a guided track opposite to the head, each strap is precisely positioned.
- The controls include a programmable »teach in« mode for a precise definition of the height of the various horizontal straps to be applied.



Picture 3. XF 172 M



Picture 4. XF 172 M, modular design

Major specifications:

- Conveyor height 300 mm min., 800 mm max.
- Chute sizes for loads 800 x 900 mm up to 1.400 x 1.400 mm, with 200 mm modular increments.
- Total machine height 3.500 mm.
- Fully electric, 3 Ph + N, 3,0 kW

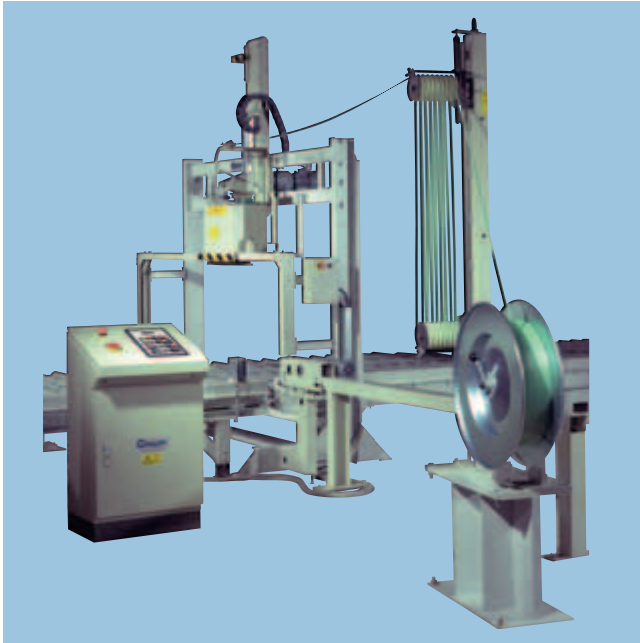
The XF/XP 111 M machines

They will strap vertically, with strapping head on the top.

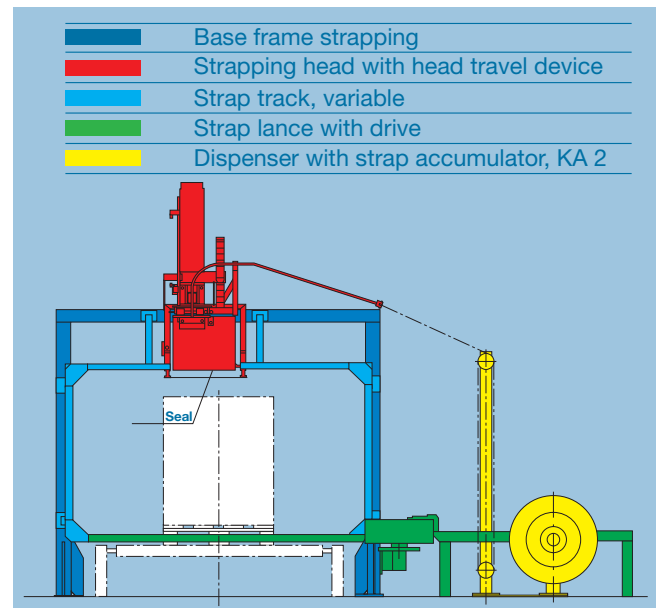
see also pictures 15 and 16

Major benefits:

- Standard equipped with the modules travelling head (700 mm) and tension equalising. The final tension of the strap on the load is always optimum.
- Positioned on the top, the strapping head will stay clean and efficient even in dusty and abrasive environments
- Provided the loads are approximately centred on the incoming conveyor, automatic strapping of very different inter-mixed load sizes (W x L) is not a problem.



Picture 5. XF /XP 111 M



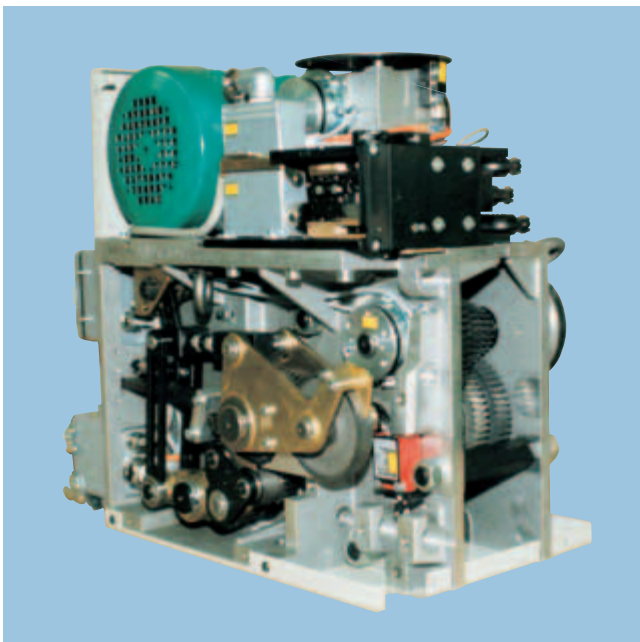
Picture 6. XF /XP 111 M, modular design

Major specifications:

- Conveyor height 110 mm min., 1.000 mm max.
- Modular chute sizes to adapt to load width 500 mm min., 2.200 mm max. load height 300 mm min., 2.200 mm max.
- Fully electric, 3 Ph + N, 2,2 kW

Features of all 3 machines

- Very high strap tension, up to 5.500 N.
- Modular adaptable to suit special demands.
- Head very service friendly.
- Easy to integrate into conveyor systems, height adjustable.
- No special foundation required. Little floor space needed.
- Fully electric 3 Ph. + N.
- All functions are PLC-controlled, with display
- Each module is produced in series-production under identical conditions and in same accuracy. The result is utmost reliability and a minimum of maintenance and service.



Picture 7. CFH-1

Strapping head CFH-1

The CFH-1 is the most essential part of this machine. It is to apply the strap around the load with the maximum possible tension. High strap tension around the load should remain for a long period. This is accomplished by the following measures:

- Due to the high tension capacity of the head, the tension can be set up to 5500 N, which depends on strap width and thickness being used.
- The interval effect. The tension mode is stopped several times for a fraction of a second. Thus tension is equalised around the load and some compaction is achieved.

Further features of the head:

- Heavy duty engineering. Low maintenance required. Only 4 head settings.
- Suitable for PP and PET straps, friction weld seal, no fumes, no odors.

Modular design

The basic machine consists of a base frame, strapping head CFH-1, strap track and dispenser KA 2 for strap accumulator, all are standard modules. The strap track is built to suit max. load size and is mounted to the base frame. (Track size enlargement in increments.)

The machines are built in one of the two versions:

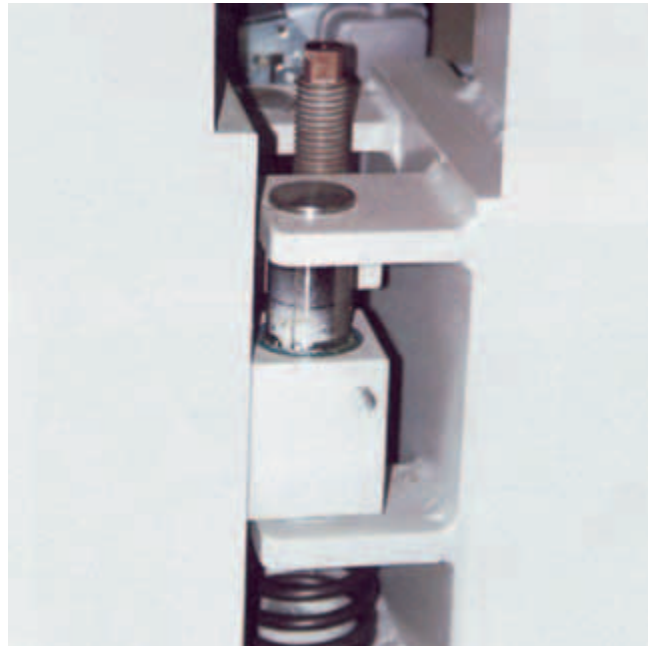
- the **XF types**: the strap chute is always closed
- the **XP types**: the lower part of the strap chute is a retractable power driven lance. This is required when strap is to be placed through the pallet void.

Further modules, depending on configuration:

- **Head travel device with drive (standard).**
The head moves automatically towards the package. Because of the long drive potential of up to 700 mm, different sizes of the individual loads do not matter. Thus straps can be highly tensioned.
- **Strap tension equalising (standard).**
High strap tension is equalised around the package. This increases the holding force.
- **Strap dispenser KA-J**
The KA-J is specially designed for the so-called jumbo rolls, of strap, which contain a strap length of over 3 times more than the standard rolls. This is a clear benefit for fully automated packing lines with high output.



Picture 8. Head travel device with drive. Control desk



Picture 9. Strap tension equaliser



Picture 11. Dispenser KA-J

Picture 10. Dispenser KA-2



Picture 12.



Picture 13.

Applications

Picture 12

Strapper XP 112 M. The container box is being closed by straps and secured to the pallet.

Picture 13

Strapper XP 112 M. Unit load with thousands of empty cans.

Picture 14

Strapper XF 172 M. Concrete tiles, 3 x horizontally strapped.

Picture 15

Strapper XP 111 M. Strapping of boxes.

Picture 16

Strapper XPV 111 M. Lead ingots. Unit load weighing more than 1 t, strapped and ready for conveying.



Picture 14.



Picture 15.



Picture 16.

Cyklop GmbH
Post Box 50 12 20
D-50972 Cologne
Germany
Industriestraße 133
D-50996 Cologne

Telephone (02236) 6 02 00-04
Telefax Domestic Sales (02236) 6 02-578
Telefax Export (02236) 6 02-228

Further infos: Please visit us in the internet
<http://www.cyklop.com>

