Additional Equipment

We are dedicated to designing and manufacturing both individual equipment and complete systems to fulfil the most demanding production requirements.

By combining various additional equipment from our wide range, the whole production process for machine constructions can be made as efficient and automated as possible. A reliable and powerful Decoiler is an essential part of fluent operation. Our Decoilers are available in 5 to 15 ton coils to meet your exact requirements. From our large range of customized stackers you will easily find a solution that fits all the demands of your business and premises.

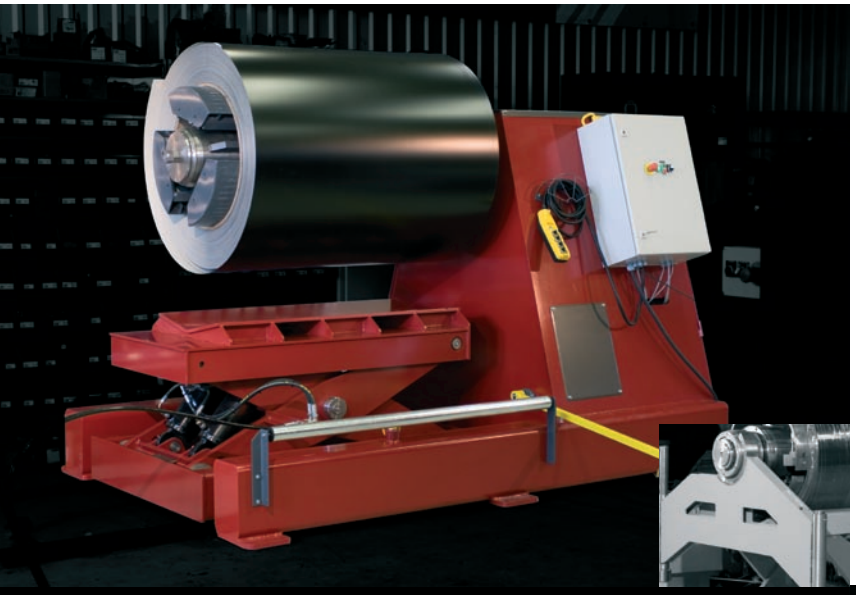
In addition, we manufacture and supply gutter and downspout machines as well as custom made rollformers for roofing accessories such as gable and straight cap flashing machines.

Please do not hesitate to ask about a rollformer to match your exact requirements. We have the solution!

PROFIILIKESKUS OY | Teppolantie 4 | FI-90440 Kempele | Finland | Tel. +358 8 5634 700 | Fax +358 8 5208 752 | info@profiilikeskus.fi | www.profiilikeskus.fi

Decoilers 5 to 15 tons

Decoilers are available for 5 to 15 ton coils. All of our Decoilers have forward and reverse functions. When operating automatically the decoiling speed is self-regulating and follows the speed of the rollforming line. Decoilers can also be equipped with wheels and placed on tracks to serve several machines.



Electrically operated, 5 t

- Electrical wheeling
- Mechanical tightening of coil
- With front support

Hydraulically operated, 7.5 to 15 t

- With own control switches
- Hydraulic or electric wheeling, forward and reverse operation
- Hydraulic expansion of mandrel with wedge mechanism

Decoilers for 12 to 15 t are equipped with front support

Coil Car

The use of a Coil Car reduces changeover time when removing and replacing the coil.

- Ascending and descending with two hydraulic cylinders
- Lateral movement with one hydraulic working cylinder
- Control switches located at de-coiler/re-coiler

Max. coil width
1500 mm

Coil weight
Available for 5 to 15 t coils

Table of Decoilers

Decoilers	Inner diameter (mm)	Max width of coil (mm)	Max weight of coil (kg)	Measures of decoiler (L x W x H mm)	Weight (kg)
Decoiler 15 t	490 - 610	1250, 1500	15000	2850 x 1700 x 1900	3000
Decoiler 12 t	490 - 610	1250, 1500	12000	2700 x 1600 x 1700	2700
Decoiler 10 t	490 - 610	1250, 1500	10000	2640 x 1550 x 1550	2200
Decoiler 8 t	490 - 610	1250	8000	2400 x 1550 x 1450	1800
Decoiler 7.5 t	490 - 610	1250	7500	2400 x 1500 x 1450	1800
Decoiler 5 t	490 - 610	1250	5000	2520 x 1250 x 1200	800

Decoiler measures with coil width 1250 mm

Stackers

An automatic stacker completes the whole production process. The traditional Bomb stacker with a motorized rollerline is best suited to Tile sheet and Light-trapeze rollforming machinery. As the sheet exits the rollformer it slides along the stacker wings. And when the sheet is cut it drops freely onto the rollerline. The sheets are always even from one end and there is pneumatically operated pusher to slightly push every sheet to be align.

The optimum stacking system for our Heavy duty rollformin machinery is the Stacker with a sheet trolley and rollerline. The trolley moves with a sheet and slides from under the sheet after it has been cut and returns to receive the following sheet. On the rollerline there are pneumatically operated support rolls to support the sheet from underneath keeping it straight. After the sheet is cut they turn back to homeposition. Now the stack is easy to remove from the rollerline since it is fully accessible from above.

One of our latest innovations – a stacker with cushioning brushes – is the perfect solution for protecting the sensitive sheet coatings when sheets are driven colour-side down. The cushioning brushes ensure a scratch-free finish for every sheet of a stack. The stacker frame consists of a dual structure, where the inner part is driven with hydraulic jacks. When the stack is complete, the inner part of the stacker is raised above all the other structures including the cushioning brushes. This leaves the stack fully- and safely-accessible from both above and the sides.

We also supply various tailored stacking systems, for example for weight centered stacks.

Wrapping Machine

Profiilikeskus Wrapping machine is designed and manufactured for easy wrapping of the stack with plastic film. Just lift the stack onto the conveyor and turn on the line.

The entry conveyor drives the bundle through the wrapping unit and exit conveyor receives it after wrapping. The whole process is automated.

The number of plastic film layers is regulated by adjusting the speed of the wrapping unit. The speed of the conveyors is always set. Speed up the wrapping machine and there will be thicker layer of plastic or slow it down and you'll have the stack with thin plastic wrapping.

Tunnel dimensions
Ø 800 mm
Ø 1300 mm

Electrically operated

Double roll of stretch film

Soft Start-up

Stepless speed control

Ø 800 mm

Film width
300 mm

Electrical conveyors
3.5 + 3.5 m

Maximum packet size
700/700 mm

Minimum wrapping length
1000 mm

Max load
250 kg/m

Ø 1300 mm

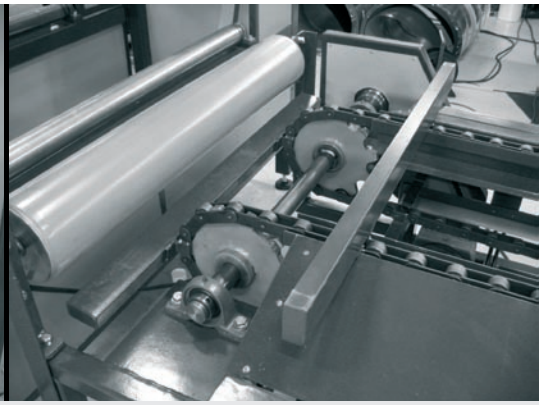
Film width
500 mm

Electrical conveyors
6 + 8 m

Maximum packet size
1200/500 mm or 1000/700 mm

Minimum wrapping length
2000 mm

Max load
500 kg/m



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Downspout and Elbow Machine

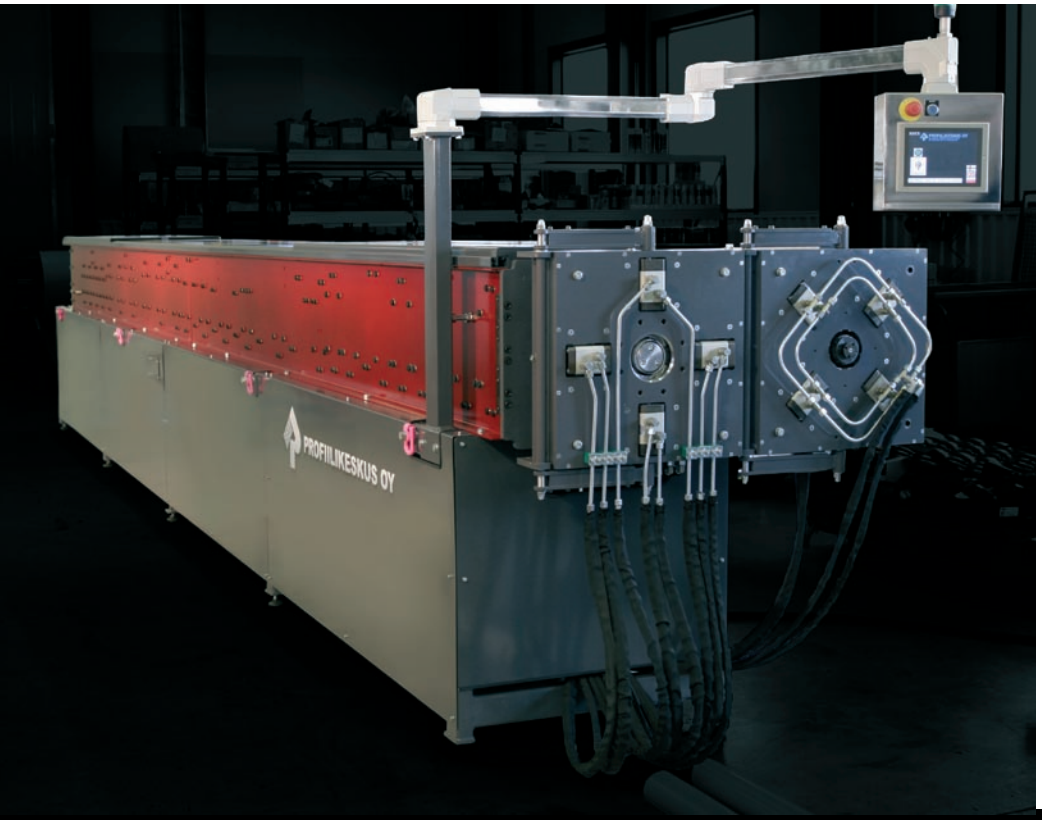
Automated Downspout Rollforming Made Available to Everyone

The inventive design combines downspout and elbow forming functions into one compact rollformer which allows efficient, automated downspout rollforming to anyone.

Specification

Automation

- Easy to use programming - the diagram of a product is shown on the screen
- Register for 100 standard products
- Programming is available in millimeters or inches



A synchronized crimping tool can be turned on or off as needed

Model of the pipe
Round

Size of the pipe
87 mm, 100 mm and 125 mm

Material thickness
- Steel 0.40–0.50 mm
- Aluminium 0.57–0.81 mm
- Copper 16 oz

Width of strip
292–416 mm ±2 mm

Speed
20 meters / minute or
350 elbows / hour

Drive with servomotor
4.4 kW, 3 x 400 V, 50 / 60Hz

Hydraulic cutting and crimping
4 kW / 125 bar

Machine dimensions
- Length 9000 to 11000 mm
- Width 900 mm
- Working height 1000 mm
- Weight average 4000 kg

Chemically treated rollers to inhibit corrosion

Gutter Machines

Electrically operated

Model of the gutter
Half-round or angular

Available in sizes
125 and 150 mm (5” and 6”)

Material thickness
- Steel 0.40 – 0.50 mm
- Aluminium 0.57 – 0.81 mm
- Copper 16 oz

Strip width
298 – 381 mm

Speed
10 meters / minute

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Customised Rollformers for Narrow Roofing and Cladding Profiles and Accessories

When the production volume of flashings is high, it is more productive and profitable to rollform the flashings instead of using a bending machine to manufacture them.

Our Gable and Straight cap flashing rollformers are electrically operated. Carefully designed forming rolls are fine-turned and furnaced, which produces a hard, smooth and easy-to-clean surface.

Depending on the profile, the post-cutter can either be electric or hydraulic. When the profile needs punching we equip the machine with the most modern punching technology and appropriate dies.

Our rollforming machines are easy to control, using either manual or automatic drive. After entering the length and number of pieces, just press the autodrive button and the rollformer does the rest.

In addition, we also design and manufacture machines for rollforming unique roofing and cladding profiles from narrow strip.

Our conveniently-sized decoilers for narrow strip completes the fully-automated process. Decoilers are available for strips of width 300 mm, 400 mm and 600 mm and for coil weights of either 700 kg or 1500 kg.

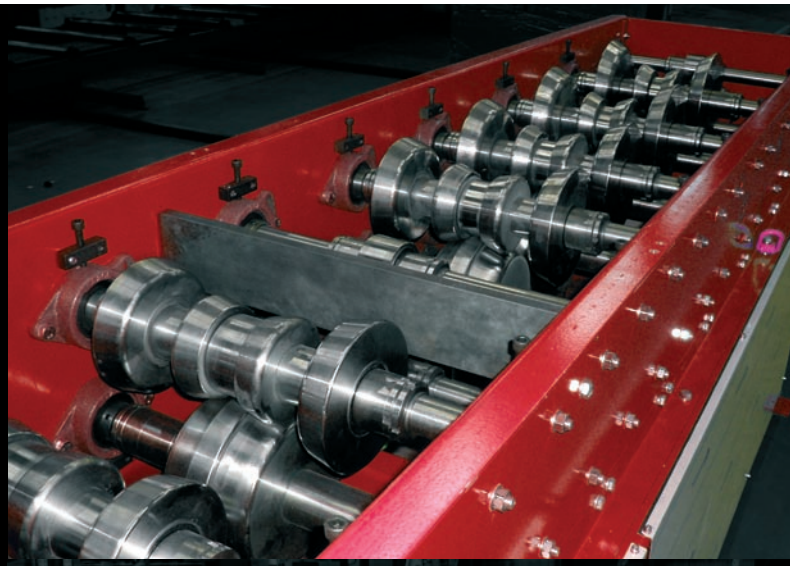
Material requirements

Thickness
0.45 mm -1.0 mm

Width of strip
100 to 600 mm

For coated and/or galvanized steel

Rolling speed 20 m/min



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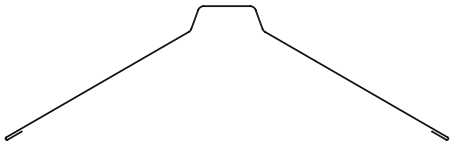
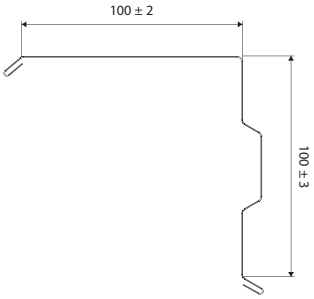
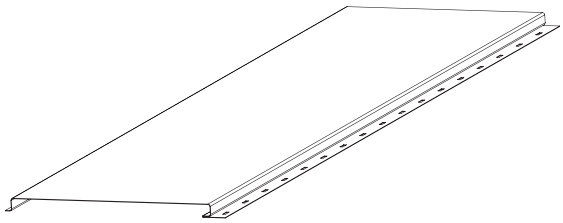
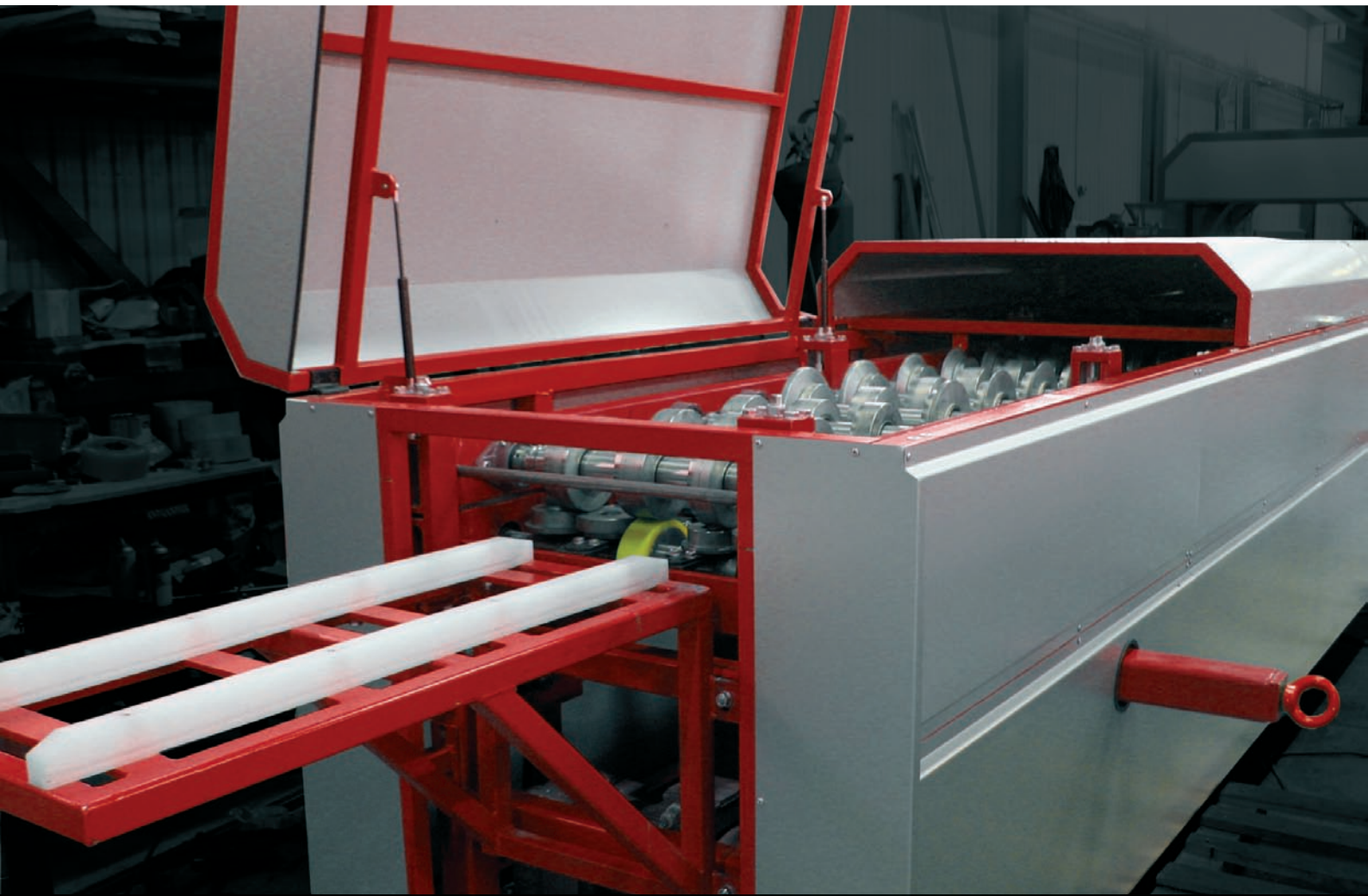
When production volume is high, it becomes more profitable to rollform the flashings instead of using a bending machine. Profiilikeskus offers carefully designed rollformers e.g. for Gable and Straight Cap flashings. In addition, we design and manufacture machines for rollforming unique roofing and cladding profiles from narrow strip.









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