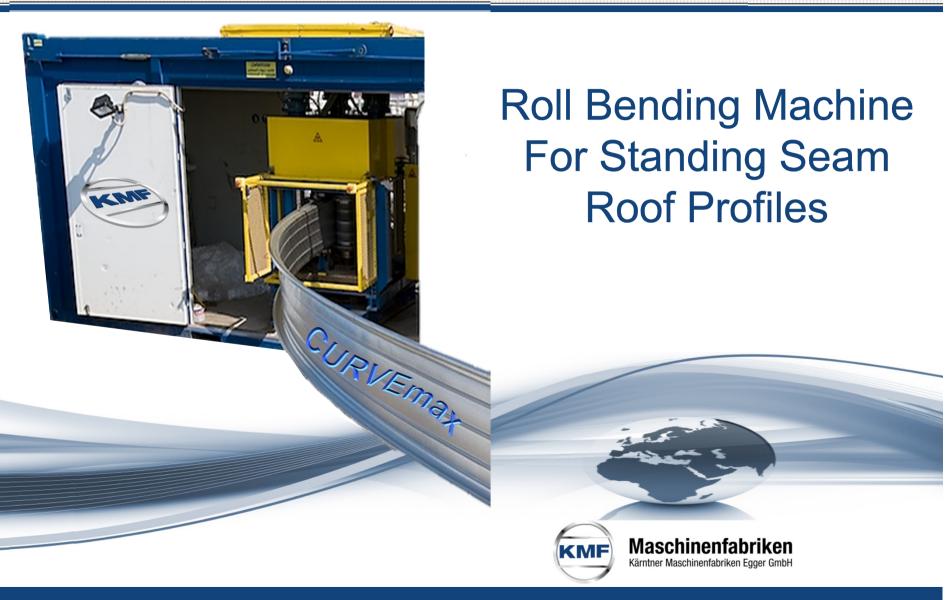
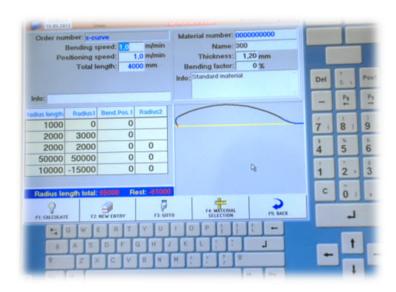
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CURVEmax Rollbending Machine for Standing Seam Profiles





- The bending machine is mounted on a solid steel frame
 - It can be worked either vertically or horizontally
 - Installed within a <u>mobile</u>, seaworthy container.
 - Steel and Aluminium profiles can be bent
 - Equipped with 2 fixed and 1 movable section
 - Modern Bending Processor with bending curve calculation
 - Single-pass and multi-pass bending possible



What is a Standing Seam roof?

- Standing seam roof systems are over 30 years old and involve the 'zipping up' of a rolled side lap over supporting halters.
- The sheet side laps are closed using a Mechanical Seaming Tool to rollform the 'Fixed Seam Overlap Radius', creating attachment to the halter but still allowing free movement under thermal expansion.
- The Standing Seam outer sheet can be produced in various metals like Aluminium or Steel.







Why Standing Seam Roofs?

- Low risk of water penetration there are no external penetrations of the outer sheet required and no end laps
- Standing seams are lightweight roof systems, making them ideal for steel frame new build and for refurbishment
- Suitable for long roof slopes
- The finished roof system is low maintenance
- Complex shapes can be formed, including waveform curves, tapers - offering architectural appeal.
- Roof penetrations such as rooflights, access hatches and smoke vents can be incorporated without compromise to the roof system.
- They are beautiful









Curving of Standing Seam Roofs on Site with CURVEmax





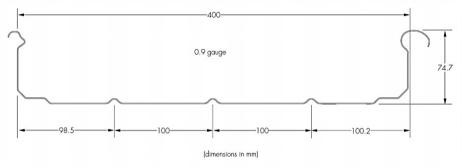


The CURVEmax can be located on site, it is contained inside a 20ft container and can produce single, multi and waveform curves on site down to a 1.5 metre radius. (minimum radii are depending on material specification)



Standing Seam Profiles

e.g. Standard Euroclad Euroseam 75/400 profile



- Minimum sheet length 500mm
 Maximum length transported by road 18 Metres
 Maximum length rolled on the ground and lifted 68 Metres
 Maximum length rolled at eaves height 200 Metres
- The standard straight sheet width used is 400mm (installed at 402mm minimum) as it is the
 most cost effective sheet dimension when constructing a standing seam built up roof system.
 At a 400mm width the excellent attachment and long span performance keeps the cost low of
 the system halter components. The maximum frequency every 1.8 metres along the roof
 slope.



Profile Data CURVEmax - Aluminium

Minimum CONVEX Radii

Euroclad Euroseam® 75/400 Minimum Convex Radii:

0.9mm Stucco Embossed Material - 8 Metres

0.9mm Painted Material - 15 Metres

1.2mm Stucco Embossed Material - 1.5 Metres

1.2mm Painted Material - 8 Metres



Minimum CONCAVE Radii

Euroclad Euroseam® 75/400 - Minimum Concave Radii:

0.9mm Stucco Embossed Material - 8 Metres

0.9mm Painted Material - 15 Metres

1.2mm Stucco Embossed Material - 4 Metres

1.2mm Painted Material - 8 Metres



Minimum WAVEFORM Radii

Euroclad Euroseam® 75/400 - Minimum Waveform Radii:

Convex Radii: 8 Metres/Concave Radii: 8 Metres*



Standing seam profile - Maximum Precurved Sheet lengths

Euroclad Euroseam® 75/400 - Maximum sheet lengths

Transported by road - 18 Metres

Rolled on the ground and lifted – 35 - 68 Metres

Material should be bent within 12 hours after rollforming.

^{*}based upon specific material use.

^{*}Curved sheet lengths may vary due to centre rise height of the curves or waveform height variation



Profile Data CURVEmax - Steel

Minimum CONVEX Radii

Euroclad Euroseam® 75/400 Minimum Convex Radii: 0.5mm IF Steel, DX52, painted - 8 Metres



Minimum CONCAVE Radii

Euroclad Euroseam® 75/400 - Minimum Concave Radii: 0.5mm IF Steel, DX52, painted - 11 Metres



Minimum WAVEFORM Radii

Euroclad Euroseam® 75/400 - Minimum Waveform Radii: Convex Radii: 11 Metres/Concave Radii: 11 Metres*



Standing seam profile - Maximum Precurved Sheet lengths

Euroclad Euroseam® 75/400 - Maximum sheet lengths Transported by road - 18 Metres Rolled on the ground and lifted – 35 - Metres

Material should be bent within 12 hours after rollforming.

^{*}based upon specific material use.

^{*}Curved sheet lengths may vary due to centre rise height of the curves or waveform height variation



Technical Data CURVEmax

Dimensions: Length: 1.960 mm

Width: 1.500 mm

Height: 2.240 mm (including motors)

Weight: approx. 5 tons

Container 20 ft

Lengthwise drive: Three 7,5 kW gear motors.

Cross drive: One 1,85 kW crossed helical gear motor.

Speed of bending process: Longitudinal speed up to 15 m/min.

Traverse speed up to 50 mm/sec.

Material quality of rolls: 42CrMo4, surface nitrited and polished.

CrNi based, flame hardened and polished. (optional)

Control system: PL 511 with remote diagnostic control. Control unit from IST

(Siemens based)

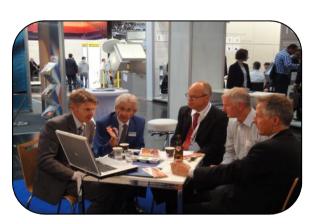
Production mode: Batchwise



Customer Profile

- Euroclad (UK)
- LCP Building (Singapore)
- Tata Steel (Corus) (UK)
- CA Group UK
- Steadmans UK
- Clane Cladding Ltd. UK
- Stoneflex UK
- Samesor (Fin)
- Plannja (SE)
- Lentab (SE)
- Dala (SE)

- Flexstahl (DK)
- DSStaalprofil (DK)
- Joris Ide (B)
- Color Profile (B)
- Antillia (B)
- Tegral Metal (IRE)
- SPO (F)
- Hoesch AG (A)
- Areco Sweden (SE)
- Formia (FIN)
- Feilmeier (GER)
- Laukien (GER)
- Wiegmann (GER)



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