

FLEECEmax

The Automatic Felt Application Machine with cutback from KMF





Facts and Figures



- Established 1874
- 5th generation family run company
- Legal status: GmbH (Ltd.)
- Markets: 90% international, 10% national
- 85 employees

- ■Production area 12.000m²
- Storage area 27.000m²
- Manufacturing capacity 100.000 h/a
- 60 t crane and lifting capacity
- ■ISO 9001 certificated



Business Areas

Tilting Rotary Furnaces "MASTERmax" for Aluminium Recycling





Mills & Grinders

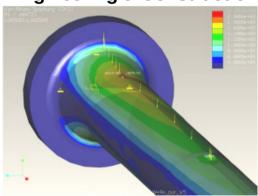


Stirr ball mills and hydro classifiers for various industrial minerals

Special Machinery



Engineering & Construction



Construction
Layouting
FEM Calculation
Design

profiled sheet metals, contract manufacturing

Ffleece applicators

"FLEECEmax" for



FLEECEmax Series

- No more application mess due to easy coil access on a movable applicator.
- No more electrostatic charging due to antistatic ionization of the air.
- Rapid profiling production with uninterferred rollformer speeds of up to 80m/minute.
- Application from underneath & above for roofing panels, depending on production mode.
- Cutting of gaps with variable width due to a controllable application device.
- Perfect alignment fleece with metal due to optical sampling of fleece edge.
- Easy integration into profiling line due to movement on rails
- Efficient control system for easy changes between fleece applications





Anticondensation FLEECE

The problem:

If there is a lot of condensation, drops of water form and start to fall causing damage to the contents below and when the temperature and humidity conditions reach the dew point moisture condenses underneath of the uninsulated metal roof.

The solution:

The solution is the anticondensation fleece applied to the metal panel before the roll forming. Anticondesation fleece is a self adhesive industrial textile product designed to **prevent condensation**.

With the aid of the anticondensation fleece this can be avoided and stopped.

Leading metal suppliers and panel manufactures use anticondensation fleece to prevent real metal roofing problems and **generate extra business** and **profits**.

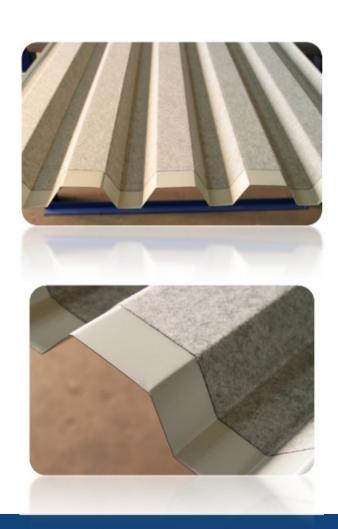
Advantages:

- Easy to apply
- Added value and differential
- Durability, not susceptible to ripping, tearing or deterioration
- Time saving, as there is no need to roll a vapor barrier over the purlins and seal or roll out insulation with Bacteria resistance and
- Improving acoustical insulation



Anticondensation Gap (Offset)

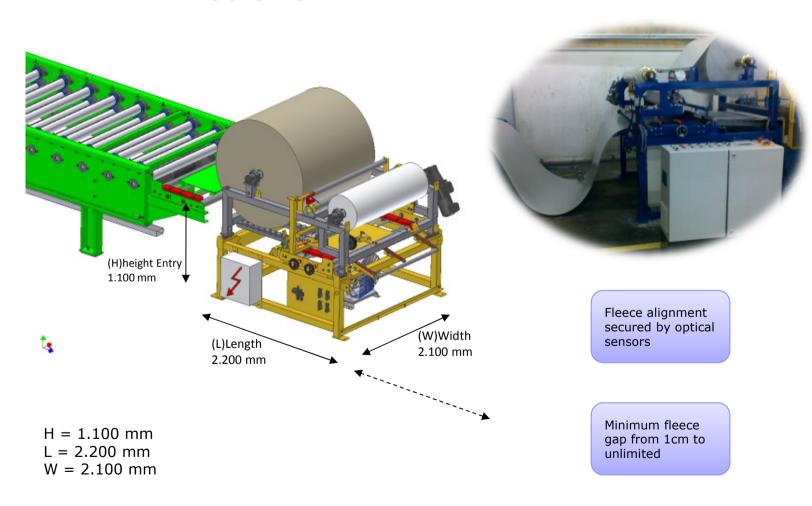
- offsets on the edges are produced during panel manufacturing.
- no need for on-site resin or varnish application, thus reducing labor costs considerably.
- the fleece is cut prior to application onto sheet metal, avoiding heating up the sheet metal.
- variable fleece offsets widths due to programmable FleeceMax positioning.
- production flexibility remains at 100%, fleece on/off and leading/trailing offsets can be different from panel to panel.
- no unsightly rips & tears that are often associated with conventional fleece application.



- engineering your visions -

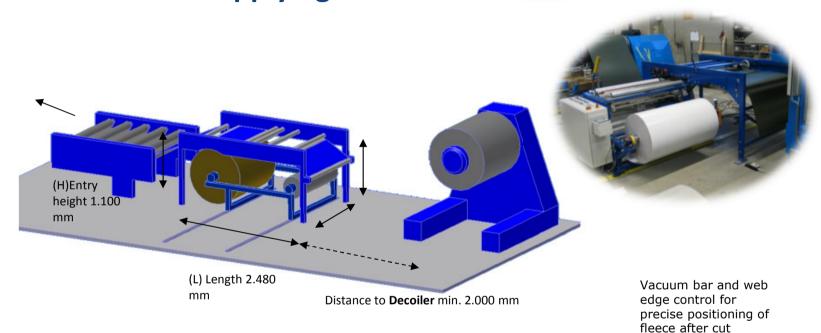


FLEECEmax 1800 for applying from above





FLEECEmax 2500 for applying from underneath



H = 1.100 mmL = 2.480 mm

W = 2.100 mm

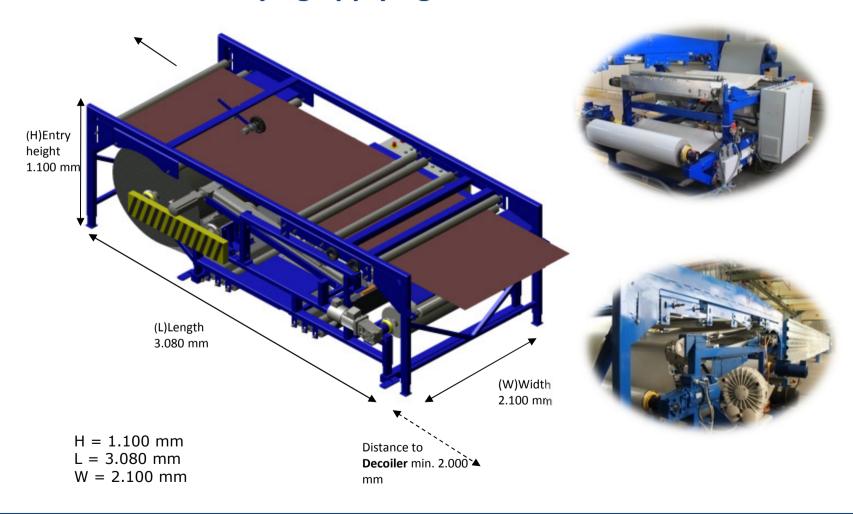
Changing the fleece coils without losing time for production.

The range of Fleece Max 2500 covers sheet widths up to 1.500mm.





FLEECEmax 3000 for flying applying from underneath





Technical Specification

Description		Fleece Max 1800	Fleece Max 2500	Fleece Max 3000
Serial Number		V1.2.3-1250	V1.2.2-1500	V1.2.3-1500
total length	mm	1.860	2.480	3.190
max.width	mm	1.600	1.600	1.850
hight	mm	600 – 1.200	900 – 1.200	900 – 1.200
drive		2 motors	2 motors	3 motors
unwind speed	m/min	40 - 60	max. 50	max. 80
max. fleece width	mm	1.250 – 1.500	1.250 – 1.500	1.220 – 1.500
max. fleece coildiameter	mm	1.200	1.500	1.200
max. ultimate load	kg	800	800	800
cutting device		Stop to cut principle with hot wire		flying cut mode with hot wire
compressed air supply		6 bar	6 bar	6 bar
vacuum fan	power	4,0 kW		6,0 kW
	Vacuum max (bar)	0,5		0,5
input/output signals		see sketch	see sketch	see sketch
electrical connection		3 x 400 VAC + PE + N / Herz		



Selected FLEECEmax References

Customer	Location	Customer	Location
FlexstaalDS-Staalprofil	Denmark Denmark	■CA Group	UK
LlentabDala	Sweden Sweden	SteadmansClane Cladding Ltd.Stoneflex	UK UK UK
Joris Ide	Belgium	•Hoesch AG	Austria
 Color Profile Antillia Tegral Metal SPO Samesor 	Belgium Belgium Ireland France Finland	ArecoFormiaFeilmeierLaukienWiegmann	Sweden Finland Germany Germany Germany

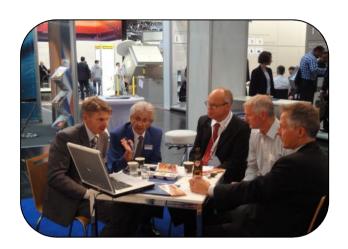


General Customer Profile

Europe

- Andritz (A)
- Agip (I)
- Arcelor Mittal (F)
- Cincinnati (A)
- Corus (UK)
- Engel (A)
- Euroclad (UK)
- Global Hydro Energy (A)
- Hobas (A)
- JAKE (D)
- Kone Cranes (Fin)
- Köfem (Hungary)
- Lindner Recyclingtechnik (A)
- Samesor (Fin)
- Hobas (CH)

- Maerz Ofenbau (CH)
- Mitsubishi (D)
- Omya (CH)
- Plannja (DK)
- Rheinfelden Alloys (D)
- RHI (A)
- Salvagnini (A)
- Siemens VAI (A)
- SMS (D)
- Danieli (I)
- Heraklith (A)
- CoreAL (ES)
- Lenzing (A)
- Polysius (D)



Africa/Asia / Middle East

- Mondi Paper (South Africa)
- Mitsui (JP)
- TAHA (Bahrain)
- Kiliçlar (Turkey)
- Rio Tinto (NZ)
- Axayya Alloys (India)
- LCP Building (Singapore)

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