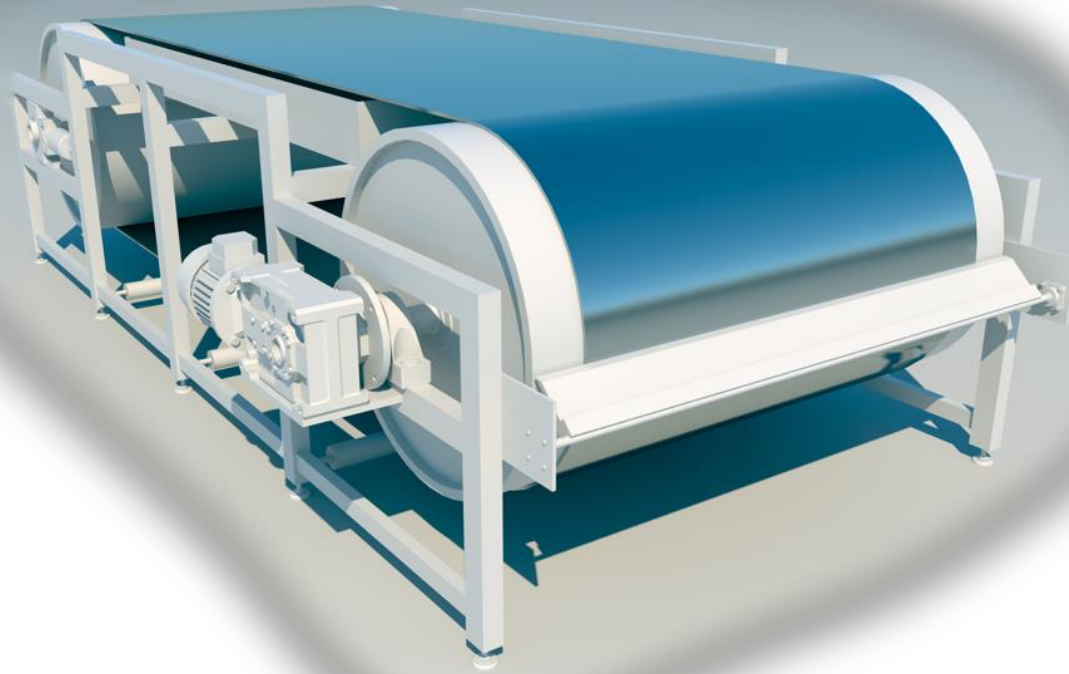


CONTIBELT[®]
BAND SYSTEME

Efficient liquid to solid transition on stainless steel belts





Mario MIHALJEVIC
Head of Sales at Contibelt



What is liquid to solid transition?



- Create small units
- Easy to transport
- Easy to re-heat
- Preferably no dust





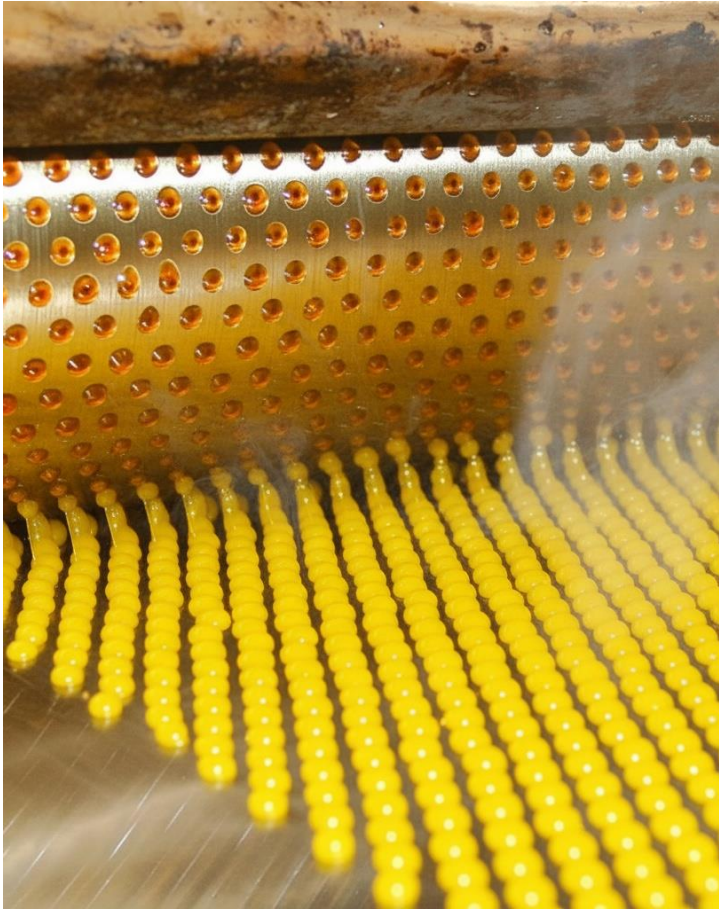
- Hot-Melts
- Resins
- Waxes
- Sulfur
- Fatty alcohols
- Detergents
- Solid Surfaces
- ...

Typical processes: Continuous sheet casting

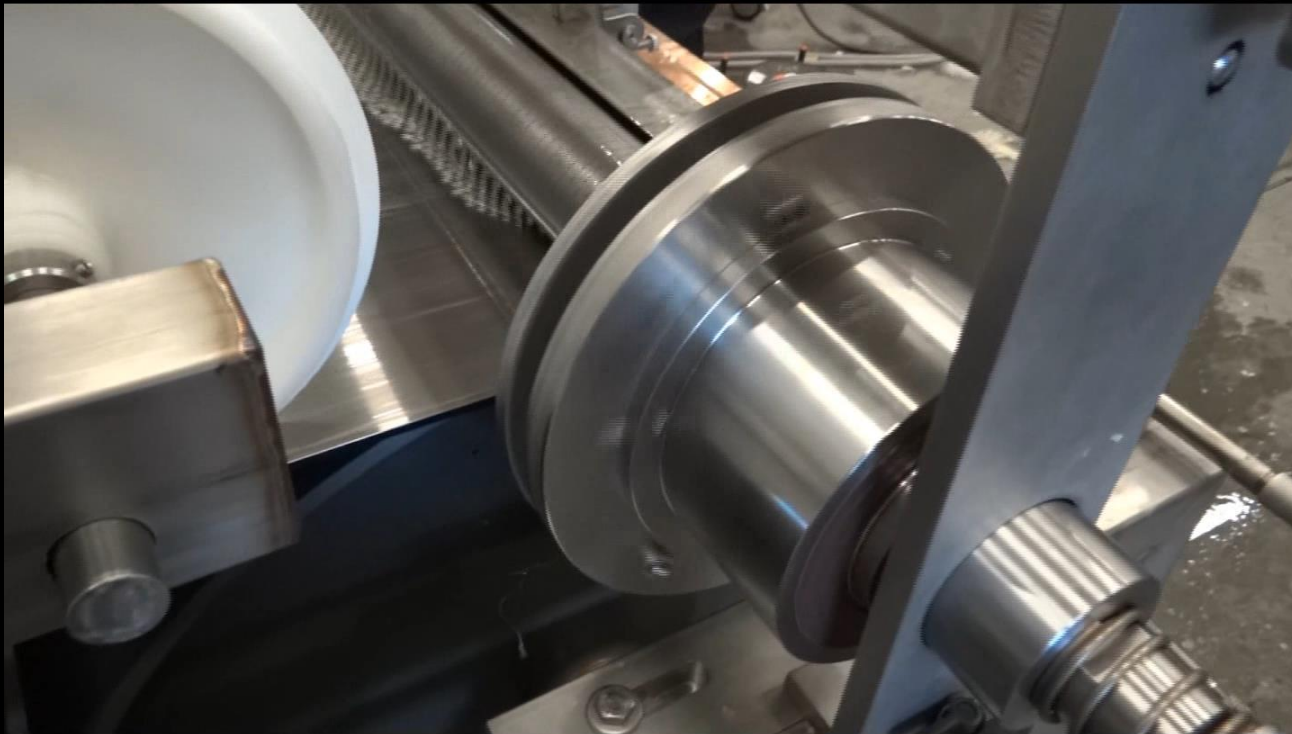


- Molten product is applied as a continuous sheet on stainless steel belts using
- Controlled Cooling and Solidification
- The sheet thickness is regulated to ensure uniform cooling and solidification into a brittle or semi-brittle layer.
- Mechanical Flaking
- Solidified sheets are mechanically broken into flakes by breaker or crusher
- Flaking suits thin, flat products like waxes and resins, enabling high throughput and efficient surface use

Typical processes: Drop Forming / Pastillation



- Droplet Formation using Pastillator
- Molten chemicals are evenly distributed through a rotating perforated shell to form uniform droplets called pastilles.
- Solidification on Steel Belt
- Droplets solidify into near-spherical shapes as they travel along the cooled moving stainless steel belt surface.
- Pastillation enables excellent size control, minimal dust, efficient heat transfer, and good flowability of solidified product.
- Used for solidifying sulphur, waxes, resins, and hot-melt adhesives with easy downstream handling and automation.





Advantages of Steel Belt Solidification

- Continuous and Controlled Operation
- Steel belt solidification allows continuous processing with precise control over product shape and size for consistent quality.
- High Thermal Efficiency and Indirect Cooling
- The indirect cooling approach improves thermal efficiency while reducing contamination and simplifying cleaning processes.
- Steel belts offer corrosion resistance, mechanical stability under thermal cycling, and fast adaptability to different production rates.
- Belt solidification systems easily integrate with upstream melting and downstream packaging processes, boosting manufacturing efficiency.



THE STEEL BELT

Why is the steel belt so important



Flatness:

- Belt must be flat to ensure optimal cooling without product distortion.

Straightness:

- Only a straight belt will track well

High Quality Stainless Steels:

- Low inclusion content -> Uniform properties

Corrosion resistance:

- Choose correct steel grade for your product

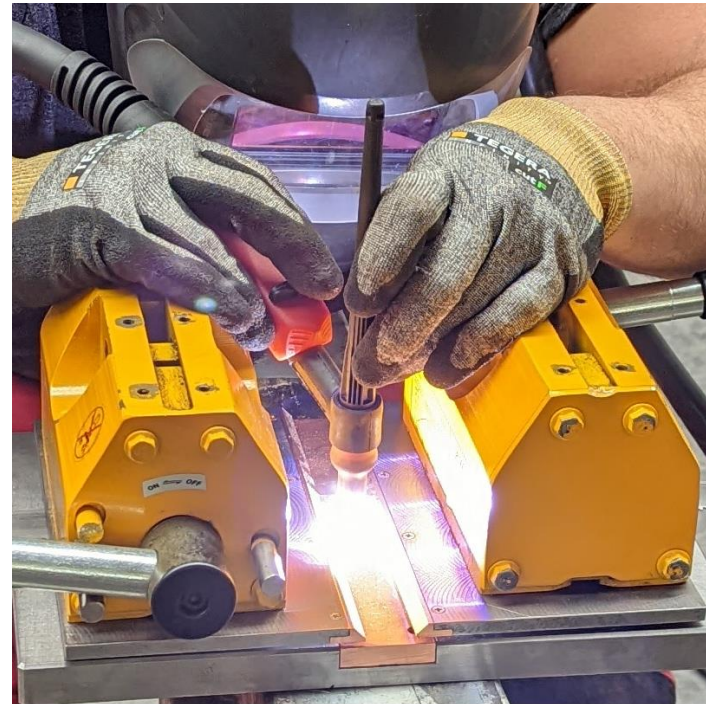
Rubber tracking ropes (v-ropes):

- Excellent attachment -> reliable tracking

Professional Service is Essential

Skilled Service:

- Steel belts distort easily while welding
- Special equipment is necessary
- Special techniques are necessary





ABOUT CONTIBELT

- Founded in 1991 (35 years in business)



Contibelt produces high quality conveyor and process belts made of special steels and stainless steels

Contibelt's Stockerau Works



- 30 km from Vienna
- 45 km from Vienna International Airport

Contibelt's Stockerau Works









in-house visual inspection at a Contibelt production facility

Contibelt steelbelts are thoroughly tested ...



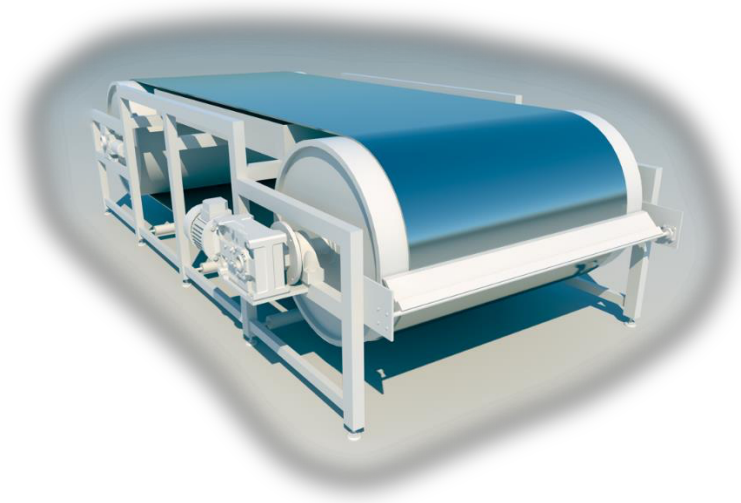
... and robustly packed



before being dispatched worldwide



to customers around the globe



THANK YOU FOR LISTENING

Find out more on

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