

Ultra thin & high precision Coating



Applying the polymer matrix

The manufacture of pharmaceutical products requires the highest accuracy. The need for precision is clearly reflected in the coating process, the precise application of an active ingredient containing matrix onto a carrier material. Together with specialized technology partners, Harro Höfliger manages to integrate innovative coating processes into the production sequence – always with a focus on product properties.

Coating know-how and modular platforms

Coating, for example, plays a role in the manufacture of patch products containing active ingredients such as TTS/TDS (Transdermal Therapeutic Systems). However, the coating process is also important in the production of ODF/MBF (orally ingested films with a polymer matrix containing active ingredients).

High precision is required when applying layers of significantly varying thickness. The prerequisite for this is the combination of know-how acquired over decades in the processing of web material with comprehensive product expertise, and an understanding of the processes. In close cooperation with our technology partners, we develop individually optimized coating solutions for a variety of products.

The following factors play a role in ensuring the best possible coating quality:

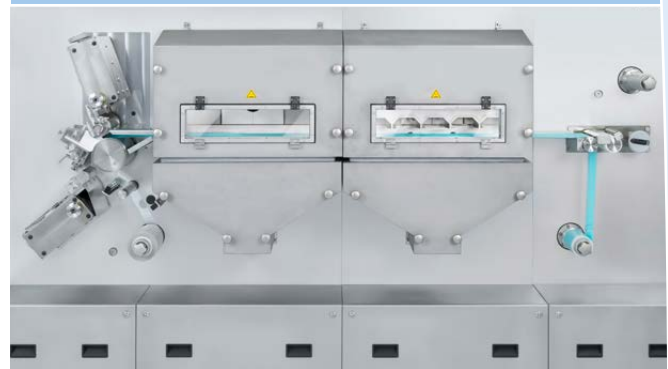
- Selection of the suitable coating process depending on product and layer thickness
- Selection of the suitable drying process (heating plates or recirculation air)
- Single or multi-zone drying
- GMP and GAMP 5 standard
- Quality assurance of the entire process
- Modular and flexible design
- Scale-up possibilities



Hydrophilic oral films are made mostly of synthetic, water-soluble polymers such as PVOH or HPMC.



Standard version
coating with comma bar.



Extended version
With two optional coating systems (comma bar or slot die), two drying systems and lamination station.

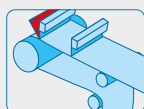


Standard version
coating with slot die.

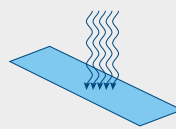
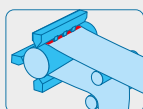
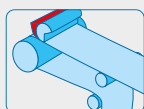
Processes



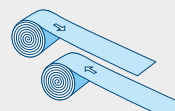
Unwinding
Unwinding substrate.



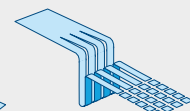
Coating
Coating with coating knife, comma bar or slot die system.



Drying
Drying process before further processing.



Winding
Winding for transport and storage.



Slitting
Slitting of the product for conversion.

All data in this sheet is non-binding and subject to change.