

## Unwind and control station for perfect preparation of the coating process

The Maan Unwind Coating Station is a premium station for the input of flexible materials on rolls, such as paper and foil. The station is crucial in the Maan Coating Lines, and ensures that the materials are input at the correct tension, speed and position. In addition, materials can be pre-treated in the Unwind Station, for effective processing in the remaining coating process. Process control and coating quality were the key starting points for development of this station. The Unwind Station uses an air-expansion winder shaft with safety chucks. Combined with the pneumatic loading arms, this results in a simple process for loading and unloading rolls of material. The thickness of the unwind roll is monitored constantly by a diameter sensor connected to the central controls. The line stops automatically when the unwind roll reaches a critical level.

### Position and tension control

The Maan Unwind Station is equipped with various tools to ensure the web is inserted in its optimal state. The web tension control system ensures that the material is inserted at the correct tension. The station is fitted at the end with a nip-roller, which provides extra web tension control. In addition, the station is fitted with a web edge control system. This system

constantly controls the web position, adjusting it where necessary, to guarantee that the web is fed into the coating pattern straight. To ensure optimal process control, the controls for web position and web tension are connected to the other stations in the production line and the central controls.

### Splice table

To ensure easy replacement of a roll or to change the material, the Unwind Station is fitted as standard with a splice table. On this splice table, the web is sliced and easily joined to the new web. The Unwind Station is equipped with an integrated tape dispenser for a simplified process.

### Pre-treatment

To ensure proper adhesion of the adhesive and/or silicone, various materials require pre-treatment. For this reason, the Unwind Station is equipped as standard with a corona pre-treatment station. For the siliconing process, this pre-treatment is crucial and the station is fitted as standard with a corona unit. For other processes, the corona unit is optional. To process foils, the Unwind Station may be equipped with an antistatic system

### OPTIONS

An extensive selection of options is available on all our machines.

For more information, contact us so that we can configure the machine to your requirements.



Unwind Station

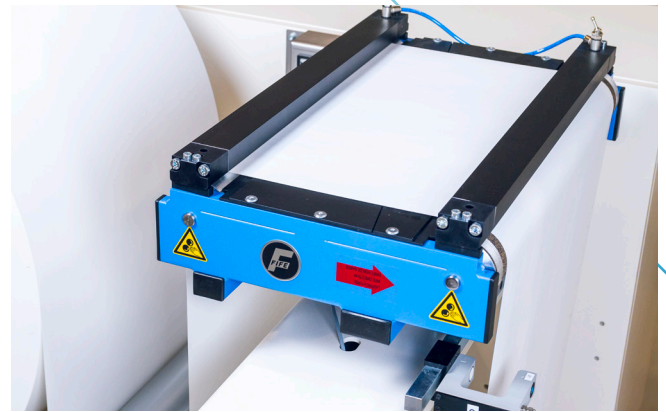


# SPECIFICATIONS

Technical overview	USS530	US660
Web width (mm)	530	660
Web speed (m/min)	150	150
Web tension (N)	40-250	40-250
Core (mm)	76 (3")	76 (3")
Maximum roll diameter (mm)	1.016 (40")	1.016 (40")



Loading arms for easy loading of rolls



Splicetable



Corona treatment for pretreatment of materials



Web tension control system



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