CEREST
Ingénierie Industrielle - Machines spéciales



Unwinding line

with tangential drive

● **Mechanical engineering** ● **Realizations** ○ **Cabling** ○ **Machines**

Unwinders are used to u**nwind a coil of paper** at the infeed to a production line.

The paper is driven **tangentially by a belt**, so that the **linear speed is constant**, irrespective of the coil diameter.

This project involved recovering certain sub-assemblies from an existing line and reintegrating them into brand-new, more compact frames incorporating new functionalities.

The **pneumatic part** of the machines was r**etrofitted**, **simplified** and **streamlined** to meet customer requirements.

Each module can be **easily and quickly relocated** to suit the customer's lifting equipment (overhead crane).

The robust construction (60mm thick steel plates) guarantees **vibration-free operation** and, consequently, process reliability of the line.

The balancer module guarantees **constant web tension** and helps **synchronize unwind speed with line speed** (PID system).

Various options are available:

Park brake, ultrasonic diameter measurement, loading belt to facilitate multi-level strip start insertion, etc...

SPECIFICATIONS :

- **Weight: 3,800 Kg each**
- **Line speed : 600m/mn**
- **Max. coil weight: 500Kg**







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