

revolution

ENERGY-RECOVERY HYBRID BRAKE



OUR CLIENTS SITUATION

Renova works closely with its customers. We noticed **recurring problems** occurring during the production cycle.

1. DOWNTIMES



During the **splicing phase**, the web is pulled while the roll is still stationary. It's the web tension that set the roll in motion.

Sometimes the **paper**, pulled by the machine, yields and **breaks**.

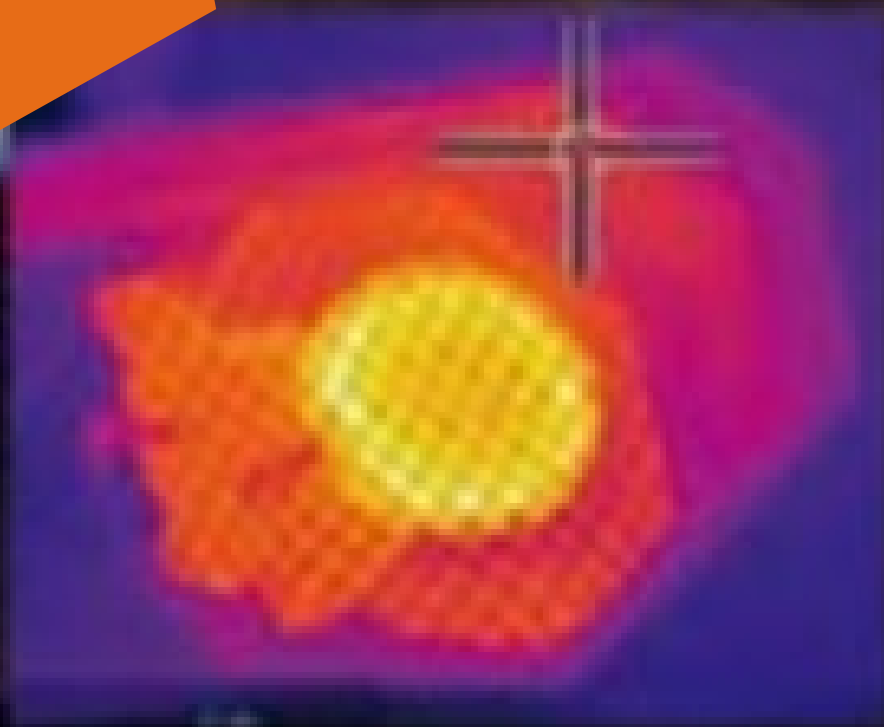
This cause **downtimes** for the production plant.

2. SLOWDOWNS

Trying to avoid paper tearing, the **line speed** is drastically **reduced** during splicing.

This leads to a massive **reduction of linear meters** produced during each shift.

3. ENERGY WASTE




All corrugators employ pneumatic **brakes** that **emit heat** during use.

Dispersing thermal energy is a real waste in the current market situation, where **electricity costs** are expected to increase up to **+60%**

Furthermore, heat leads to **component wear** and **loss of tension consistency**.

4. SAFETY HAZARDS



During roll preparation, the reel needs **manual tensioning** by the operator.

This action seems harmless but requires **physical effort** for the operator.

THE REVOLUTION

MULTIDISC
PNEUMATIC BRAKE

ENERGY-RECOVERY
MOTOR



PLAY THE VIDEO

 **renova**

A large roll of paper is being processed by a machine. The machine has a motor with 'revolution' and 'renova' labels. The paper is being fed into the machine from the left. The machine is white and black. The paper is light brown. The background is a factory floor.

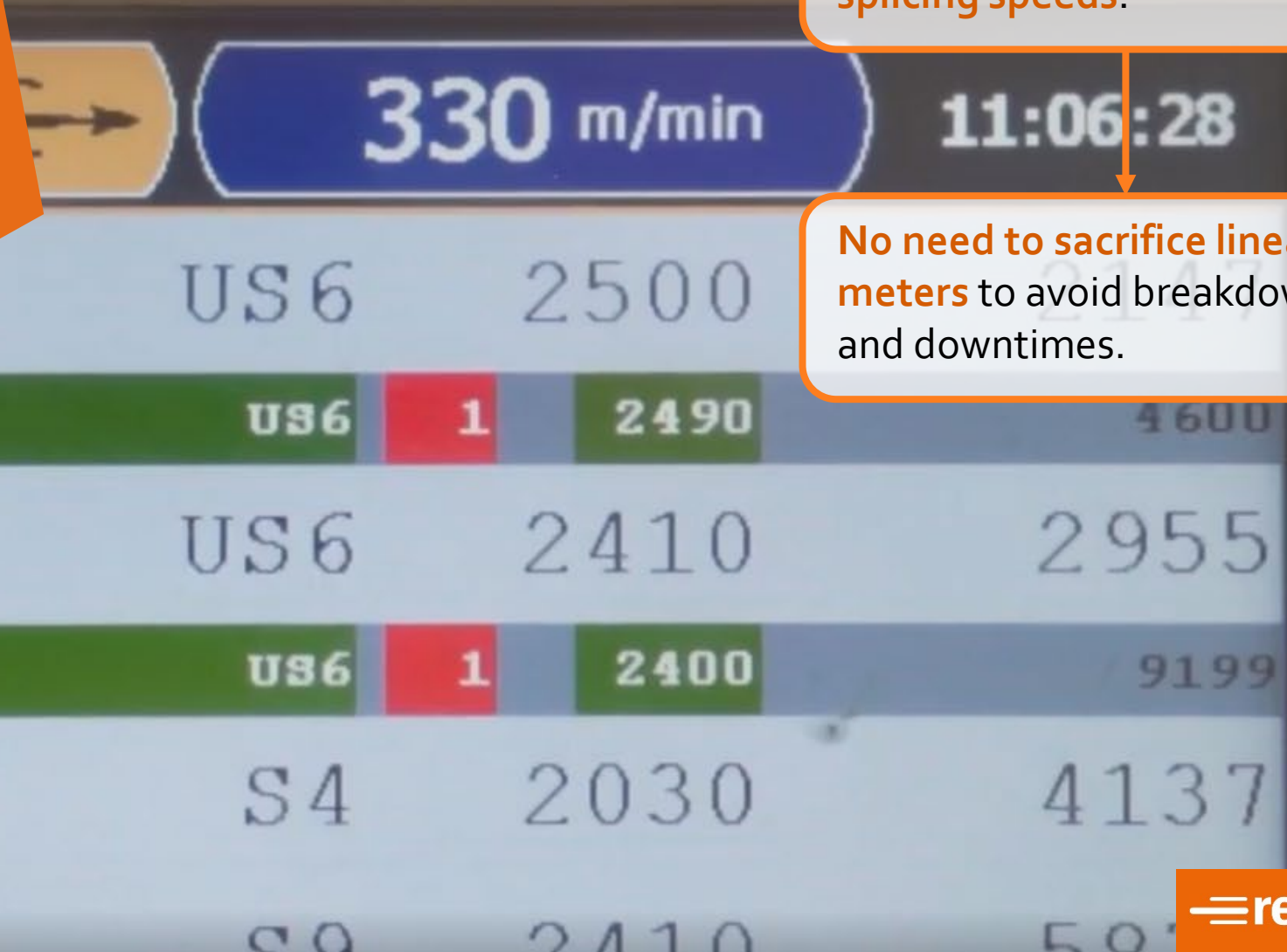
NO MORE PAPER TEARING

Revolution **accelerates the roll on its axis**, and not via paper web, helping it in **overcoming initial inertia**.

TOP PERFORMANCE

By overcoming initial inertia, it's possible to keep **faster splicing speeds**.

No need to sacrifice linear **meters** to avoid breakdowns and downtimes.



ENERGY SAVING TECHNOLOGY



While braking, the motor **transforms the thermal energy** produced by the brake **in electrical energy**, to be reused in the plant's electrical line.

Revolution can generate up to **2 kWh per roll stand**.

GREEN AND SUSTAINABLE

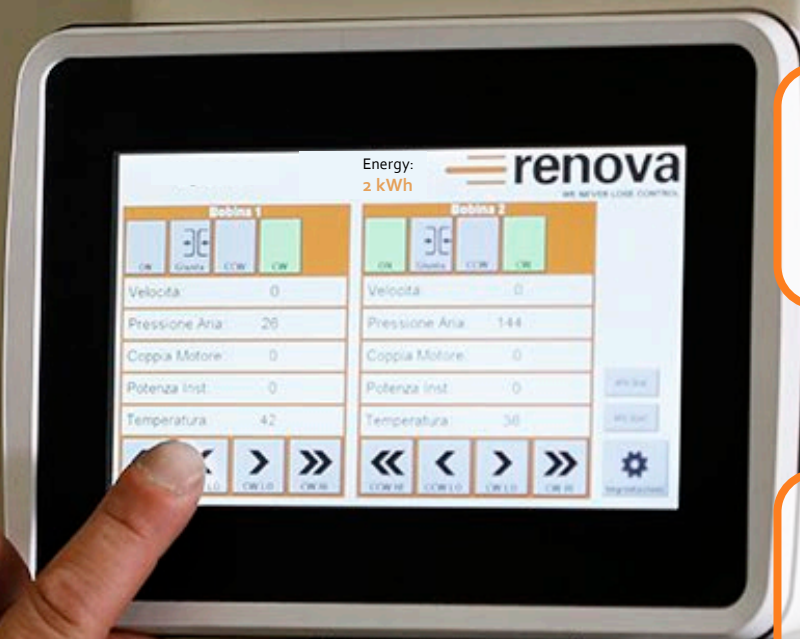


Revolution has a **hybrid regulation**: brake and motor combine efforts, automatically adjusting to the application.

This way the brake works less, **reducing component wear and powder pollution** in the working environment.

Fewer spare parts = lower costs

HIGHER SAFETY LEVEL



By pressing a button, Revolution **automatically tensions reels** of every size and weight.

This guarantees a higher safety level for the operator, as it **eliminates manual intervention**.

INDUSTRY 4.0

Revolution is an **industry 4.0** product, enabling to establish a direct dialog with the production system in the ERP

European fundings are available for companies' digital transformation.

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