

RENOVA'S 'REVOLUTION'

RENOVA'S TEAM IS ALWAYS SEARCHING FOR INNOVATIVE SOLUTIONS THAT IMPROVE EVERY ASPECT OF THE OPERATORS' WORK, FROM SAFETY TO PRODUCTIVITY. TO ACHIEVE THIS, IN 2017 THE COMPANY BEGAN TO THINK OF A NEW TECHNOLOGY THAT WOULD IMPROVE EVERY PHASE OF THE LINE, FROM ROLL PREPARATION TO SPLICING, PASSING THROUGH START-UP AND BRAKING.

PLAY THE VIDEO



The idea was born by interjecting a regenerative motor between the reel and the pneumatic brake. The company have invented and patented an innovative energy-recovery hybrid brake – 'Revolution'. The multi-disc pneumatic brake and the energy recovery motor work in tandem, always guaranteeing the required braking performances. Thanks to the electrical axis, the system can also detect and avoid slippage by checking the different rpm between the left and right side of the reel.

Renova says that 'Revolution' always ensures the automated tensioning of rolls of any size. Consequently, it prevents injuries by eliminating the manual intervention of the operator.

To prevent paper tearing, 'Revolution' accelerates the roll during the launching phase and assists in overcoming initial inertia, so that the splicing can happen without major slowdowns, improving paper quality and preventing waste, a fundamental goal for safeguarding the plant's economics.

Usually, more than 1kW of excess energy is wasted every hour during braking activities and converted into unwanted thermal energy. Instead, Renova explains that 'Revolution' recovers that energy and returns it to the power line of the plant.



'Revolution' is Industry 4.0

'Revolution' is an Industry 4.0 technology; the integrated system also includes an intuitive and easy to use control panel that enables it to establish a direct dialog with the production systems in the ERP. The user-interface has a colour touchscreen that can be set in multiple languages.

'Revolution' is 100% plug & play. An easy and fast installation is always ensured, as 'Revolution' is provided with customisable flange that allows for it to be retrofit to all roll stands with different shaft or chuck configurations.

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WE NEVER LOSE CONTROL

Our mission is to continue innovation in web tension control and roll handling systems, to improve your plant's productivity and the safety of every worker.

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