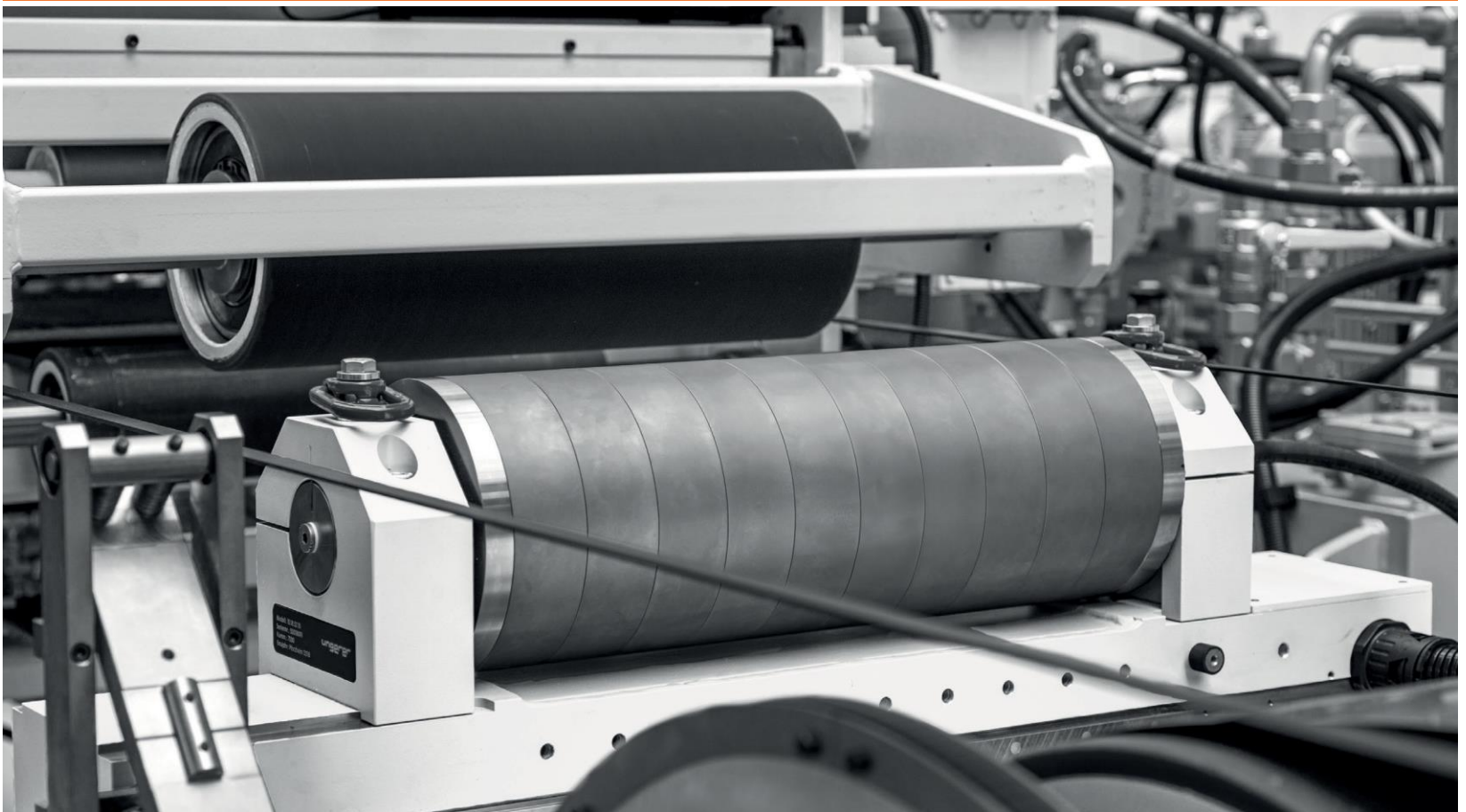




UMS

UNFLATNESS MEASUREMENT SYSTEM



REDEX USA

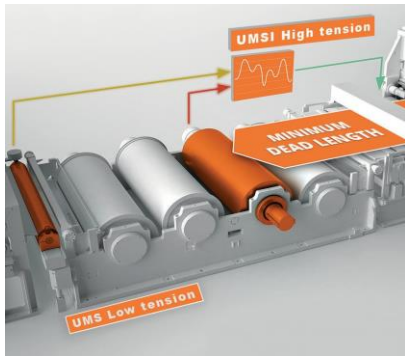
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UMS - UNFLATNESS MEASURING SYSTEM



UMSi & UMS-LT

REDEX GROUP has developed two advanced flatness rolls for precise unflatness measurement, powered by a unique controller.

UMSi seamless roll for:

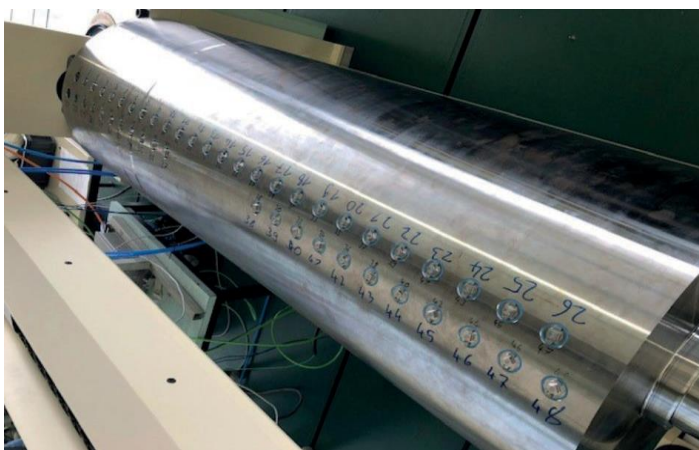
- Measurement of strip under high tension.
- Very precise measurement of strips with sensitive surface under high tension.

UMS-LT roll for:

- Measurement of strip under low tension.
- Precise Measurement and Low capex investment.

UNFLATNESS MEASUREMENT SYSTEM PRO®

- PRO is the abbreviation for PROACTIVE.
- By combining the UMS-i roll in the high-tension S-Block zone with the UMS-LT roll at the line exit's low-tension zone, REDEX group's patented flatness measurement system delivers precise monitoring across the full tension spectrum. Integrated with a single REDEX controller, this system enables immediate flatness correction directly after the leveler.
- The system achieves approximately 98% measurement accuracy before the strip enters the S-Block, increasing to up to 99.5% accuracy after passing the UMS-LT at the line exit ensuring exceptionally reliable and consistent flatness control.
- Dynamic switching between high- and low-tension flatness measurement rolls, combined with adaptive target regulation, consistently delivers superior leveling performance throughout the process.
- REDEX's closed-loop leveling system activates before the strip enters the S-Block, eliminating up to 75 meters of unregulated material delivering significant cost savings compared to conventional flatness control solutions.
- A high-precision Waterfall diagram visually displays flatness measurements across the entire coil length, providing a clear, detailed overview of the strip quality.



UMSi



UMS-LT