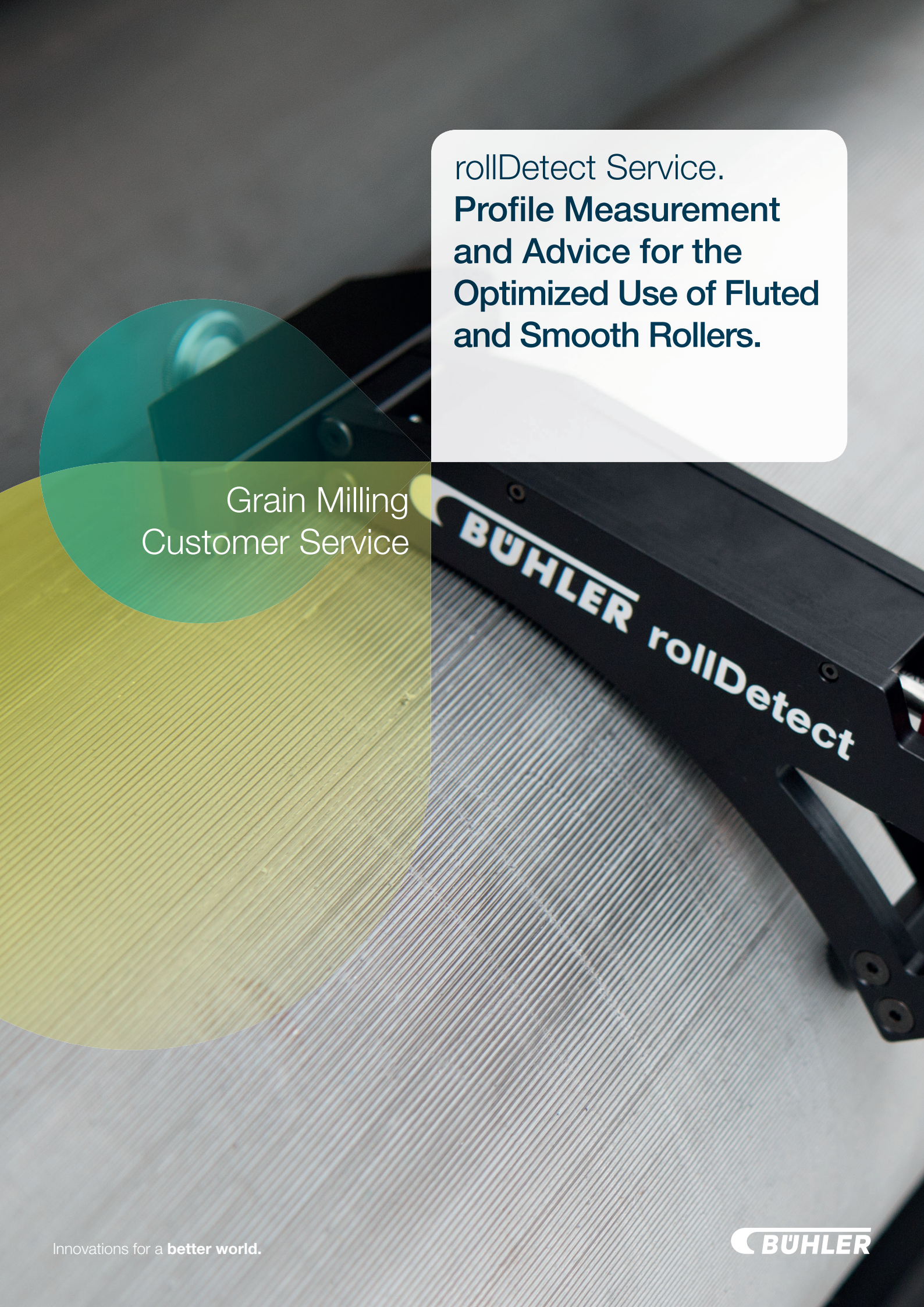


rollDetect Service.
Profile Measurement and Advice for the Optimized Use of Fluted and Smooth Rollers.

Grain Milling
Customer Service

Innovations for a **better world.**

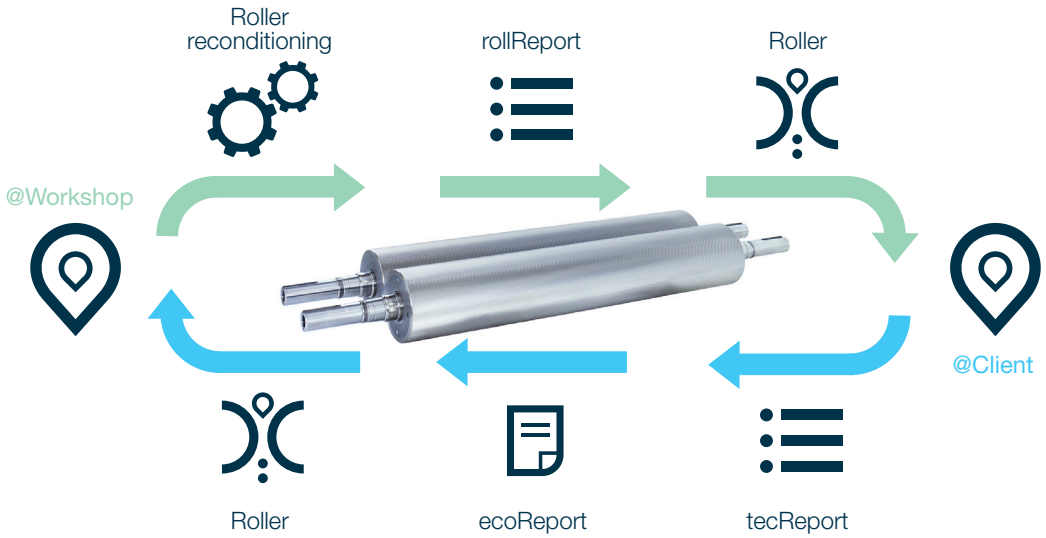
BÜHLER

Roller profile measurement for maximum performance.
Guidance for optimizing roller servicing in mills.

Properly timed roller reconditioning is crucial for ensuring consistently high product quality and cost optimization. With the rollDetect Service, Bühler is the partner you need when it comes to roller profile measurements and advice on the best possible roller use. The innovative rollDetect instrument measures the degree of wear on a roller and can determine the ideal time to exchange it.

Poorly timed roller changes increase the mill's energy consumption and operational costs, and negatively affect product quality. With our rollDetect Service wear is monitored to ensure that roller reconditioning is properly timed. We carry out contour measurements on fluted rollers as well as roughness measurements on smooth ones and give technical advice on the optimal time for a cylinder change.

Results are presented in two different reports, showing either the flute quality or the analysis of roller's condition. For maximum performance and cost efficiency, we also offer a profitability calculation for fluted rollers and, with the input of customer-specific operational data, determine the most economical timing for reconditioning rollers.



rollDetect Services.

With the rollDetect Service, Bühler offers a wide range of services to your rollers:

- Contour measurements on fluted rollers
- Roughness measurements on smooth rollers
- Advice on the best roller use

Advantages.

- Energy savings up to 30%
- Cost reduction thanks to optimized roller changes
- Higher yield and consistent product quality

Services at a Glance.

Report	Site measurement	Profile measurement	Interpretation of wear patterns, Reconditioning timing recommendation	Profitability calculation (Break-Even)
For fluted rollers				
rollReport	In service workshops	✓	x	x
tecReport	At customer site	✓	✓	x
ecoReport	At customer site	(✓)	(✓)	✓
For smooth rollers				
tecReport	At customer site	✓	✓	x

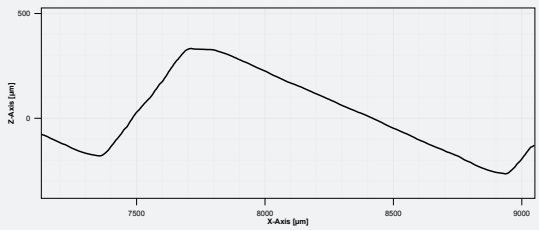
rollReport for fluted rollers

Reconditioned rollers leave our service workshop with a rollReport.

- Measurement of the roller profile after reconditioning and graphical representation
- Status documentation of the roller surface, flute edge and stubs

Advantages

- Fluting quality report
- Contrast of the target value, actual value, and tolerances of the flute profile



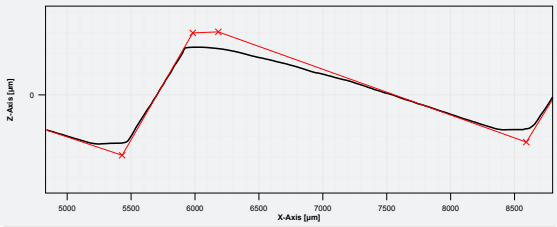
tecReport for fluted rollers

After a roller measurement at customer site, a tecReport is provided.

- Status analysis of the fluted roller based on wear measurement (in percent)
- Visual status documentation of the roller surface and flute edge

Advantages

- Quantification of the roller wear with a graphic of actual and target flute profile
- Categorization of the roller status with service recommendations



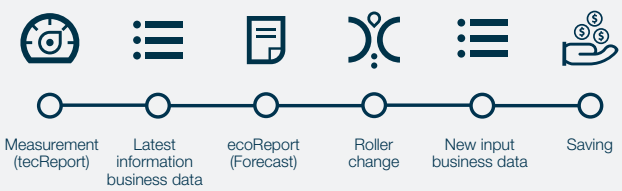
ecoReport for fluted rollers

The ecoReport is drawn up based on the tecReport and customer's data.

- Profitability calculation (break-even)
- Calculation of service costs, energy waste and lost revenue

Advantages

- Optimal timing for economical roller changes
- Cost transparency and determination of potential savings



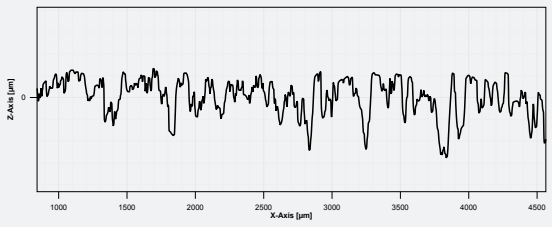
tecReport for smooth rollers

After a roller roughness measurement at customer site, a tecReport is provided.

- Display of the surface structure
- Presentation of the average roughness in Ra (mean roughness value) according to DIN EN ISO 4287

Advantages

- Roughness status (good, watch, critical)
- Recommendation for the next roller change



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