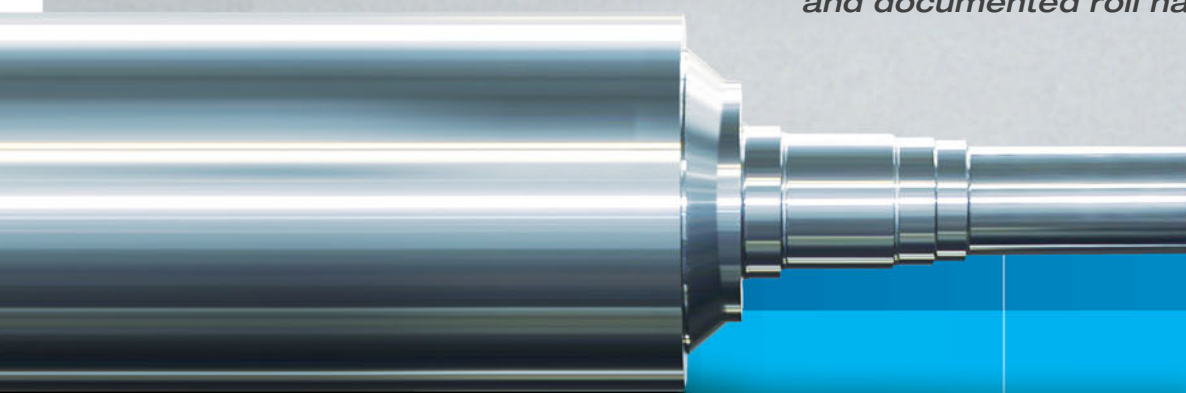




roll-works

*The analysis software for efficient
and documented roll handling*



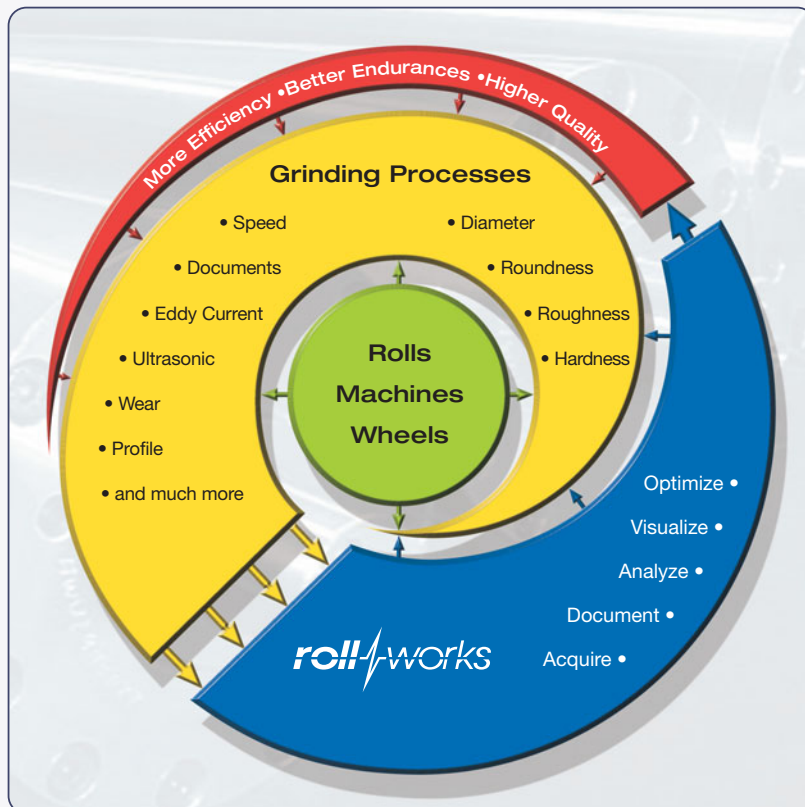
btec



Analyze / Visualize / Optimize

Microscope to the Grinding Process

Roll Works permanent communicates with grinding machine controls, for example that of Maschinenfabrik Herkules or of Anlagenbau Sba, taking over the most important measuring data and sequences and storing them in a database system (e.g. Oracle or Microsoft SQL Server). The intuitive and easy-to-use Roll Works Explorer visualizes the acquired and prepared data, permitting the grinding expert to perform simple analysis on the basis of which he is able to take purposive consequences to optimize the process.

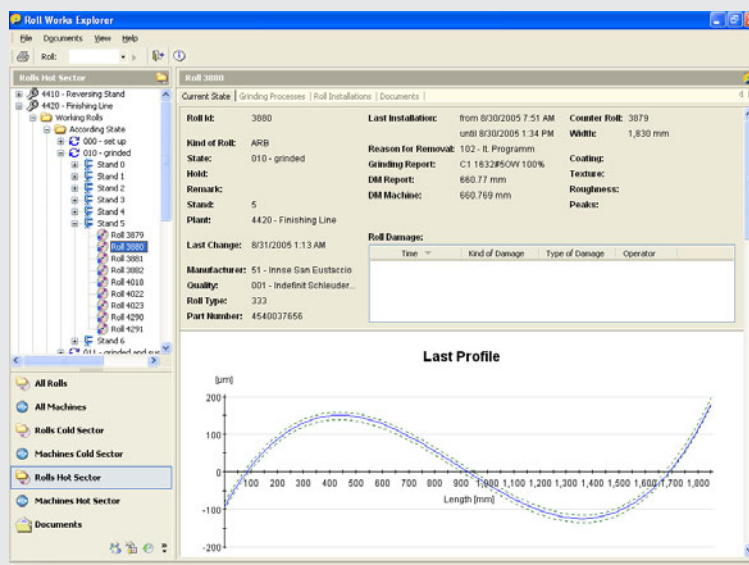


Check / Assess / Supervise

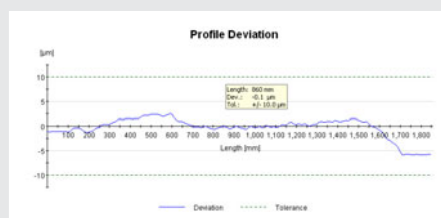
All Data of the Current State

The usability of rolls is based on the current surface status as well as the internal condition, depending on the respective roll type. Roll Works offers a clearly arranged and easily readable representation of the

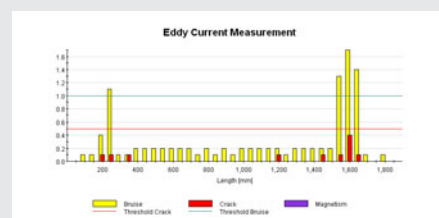
current condition of the rolls, showing the latest measurements (profile, ultrasonic, eddy current, etc.) together with the most important master data (manufacturer, quality, etc.).



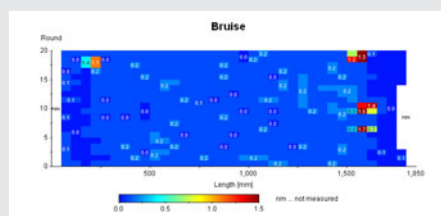
Roll Works Explorer displaying the current state of a roll



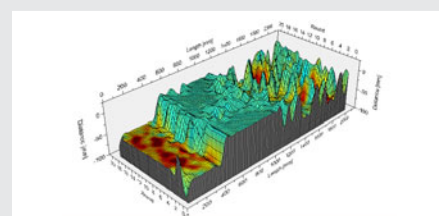
Deviation of the current profile from the desired profile



Measured eddy current values over the barrel length



Detail view of measured bruise values over the roll surface



4D-view of an ultrasonic measurement of the top layer of the roll material

Record Sequences / Detect Errors / Remedy Defects

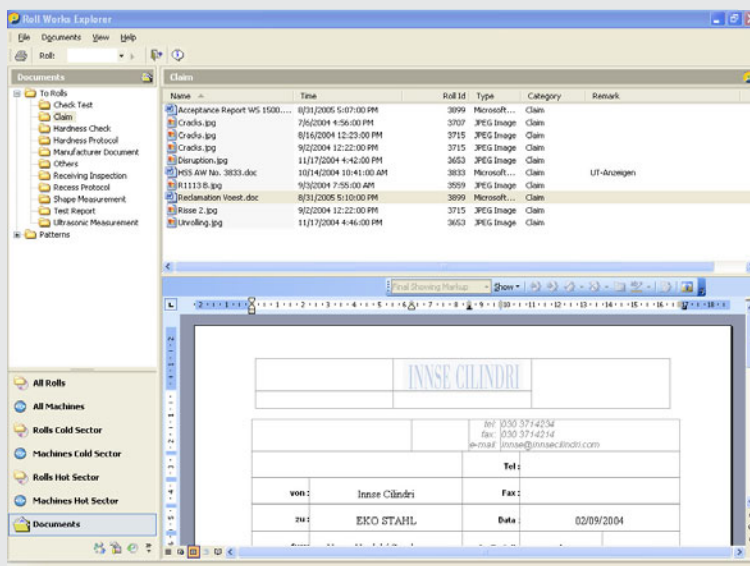
Full Documentation of all Grinding Processes

All data recorded during a grinding process can be displayed and assessed both in detail and their progress over time as well. The following is acquired and displayed:

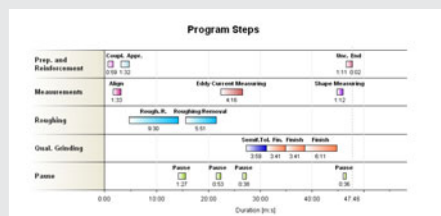
- sequence of program steps
- profile measurements
- eddy current measurements
- ultrasonic measurements

- grinding pressure, speed of wheels and rolls as well as saddle speed

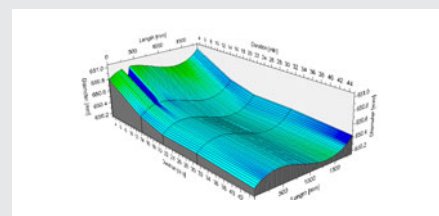
Using the integrated document management system all documents can be classified according to categories and assigned to rolls. All common file types (.jpg, .bmp, .doc, .xls, .pdf, etc.) are displayed directly in the user interface of Roll Works.



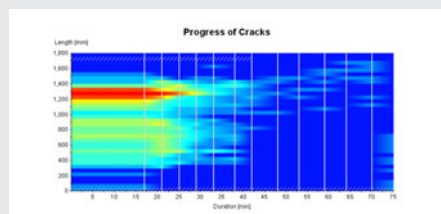
Roll Works Explorer displaying a Microsoft Word file assigned to a roll



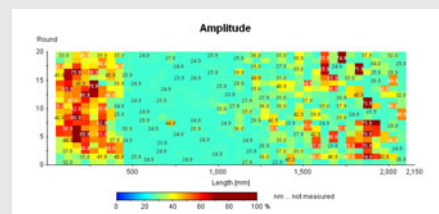
Program steps performed during a grinding process



Progress of roll profile over time including profile deviation in terms of colour



Progress of measured crack values over barrel length and time



Detail view of an ultrasonic amplitude measurement over the roll surface

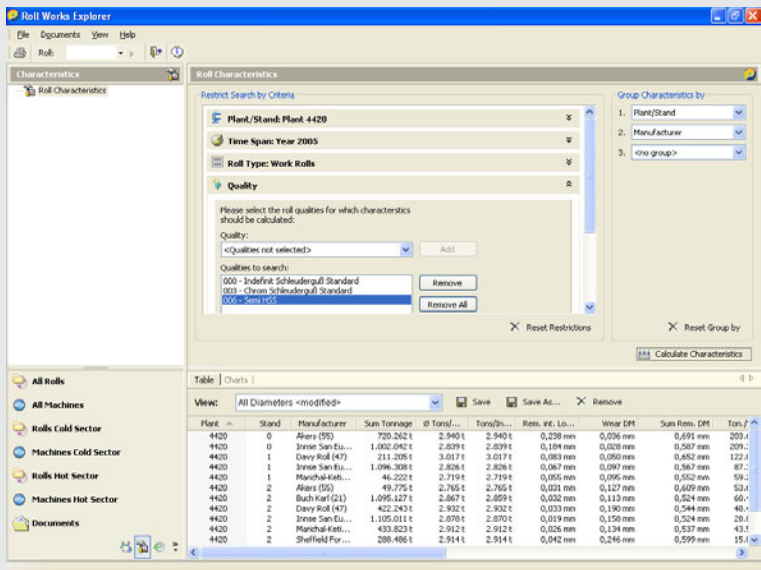
Statistics / Analytics / Characteristics

Evaluation of Rolls, Machines, Wheels

The choice of best suited tools and machinery is one of the most important tasks of every plant operator.

Roll Works permits every PC user the easy configuration and execution of benchmarking for rolls, machinery and wheels. For example, analysing the

average wear per rolled ton of strip material for each plant and/or roll stand and/or roll quality, etc., at the click of a button.



Roll Works Explorer with selections, group criteria and results on roll characteristics

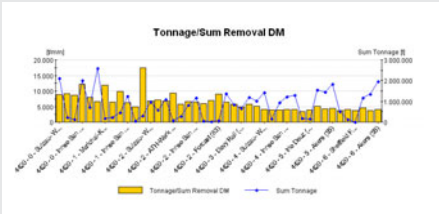


Diagram on rolling capacity of grouped rolls

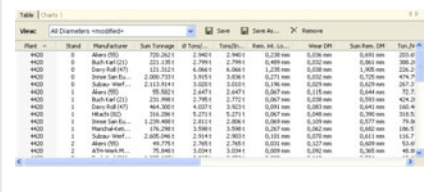


Table on results of an evaluation



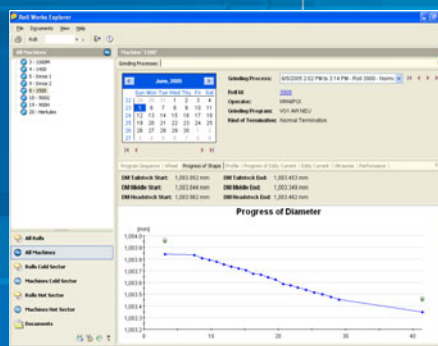
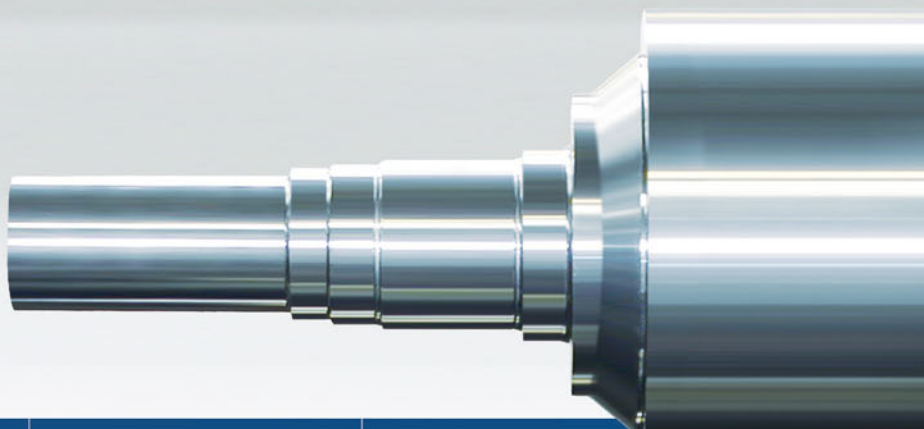
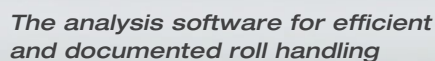
Chart on wear resistance of grouped rolls



Characteristics on the performances during a grinding process

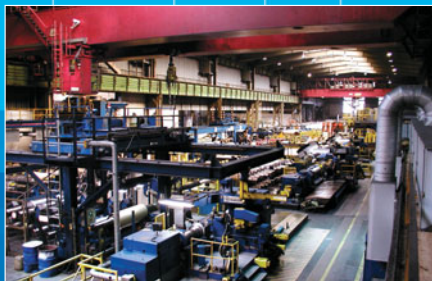
Clear Advantages for Roll Handling!

- an instrument for quality assurance for the machining of rolls
- an instrument for optimization and increased efficiency of the grinding process



Roll Works offers

- support for the analysis of causes for damage to rolls during the rolling process
- assistance in the search for possible causes of strip run problems during the rolling process
- permanent monitoring of the qualities achieved
- visualization of correlations between grinding machines, wheels and rolls on roll handling
- ways of immediate detection of errors or incorrect settings of the integrated measuring instruments
- complete traceability and documentation of conditions of rolls, wheels and machines
- comfortable access to all information from each PC in the company's network
- pleasure of intuitive and fast handling
- and much more



Software / Solutions / Service

btec – Competitiveness as Program.

btec is an innovative provider of software services combining specialists of mechatronics and informatics in one enterprise, with highly complex customized software and solutions focused on manufacturing industries as

the core competences. btec is your partner for

- consultation, analysis & design
- software development
- mechatronics
- maintenance & support

If you want more information please don't hesitate to contact us personally.
Please refer to:

btec kommunikationssysteme gmbh
Leonfeldner Str.133
4040 Linz, Austria
Phone: +43 (732) 662562-0
Fax: +43 (732) 662562-15
E-Mail: office@btec.at
www.btec.at



btec