



THREE ROLL MILL  
EXAKT 80E **PLUS<sup>+</sup>**  
because precision matters.

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## EXAKT 80E *PLUS*<sup>+</sup>

Defined, consistent and reproducible:

Increasingly diverse applications require ever new formulations of high quality pastes, coatings and inks. Regardless of the particular functional needs, a basic requirement of all matrices is the elimination of oversized particles of a defined size and a narrow particle size distribution.

In particular, the measurement of the particle size is problematic and time-consuming in daily practice. Controlling this parameter in the dispersing process is of utmost importance. The outstanding process advantages of EXAKT electronically controlled Three Roll Mill systems fulfill this requirement.

The  $\mu$ -precision in roller settings and the advanced electronic control and measuring capabilities of the new 80E PLUS allow the accurate reproduction of all settings for the dispersing process. Only the three roll mill principle as a commonly used dispersing process guarantees that 100 % of the product will be dispersed under the same physical conditions.

EXAKT Three Roll Mills guarantee best results and product quality in the dispersing process.



Safe and Operator friendly – Safety Bridge for 85, 170 and 200 mm working width



Nip-Cover – For press-out devices or small quantity batch processing



Control – Machine operation, scraper tension setting and connectors for temperature control



Informative and Intuitive – optimized human-machine interface with 8.4" color screen



Productive - Maximum throughput with 2-liter hopper capacity and 200 mm working width



Cleaning – Cleaning bar with safety contact and particularly safe operation mode



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## PERFORMANCE

80E PLUS – The next industry gold standard of Three Roll Mill technology. Based on a high precision and rock solid mechanical design with a state-of-the-art digital electronic control system, our new EXAKT 80E PLUS offers all-in-one dispersing and analyzing functionalities.

The new concept allows real-time analysis of the dispersion process and immediate adjustment of machine settings to optimize results during the dispersion process in all gap setting modes.

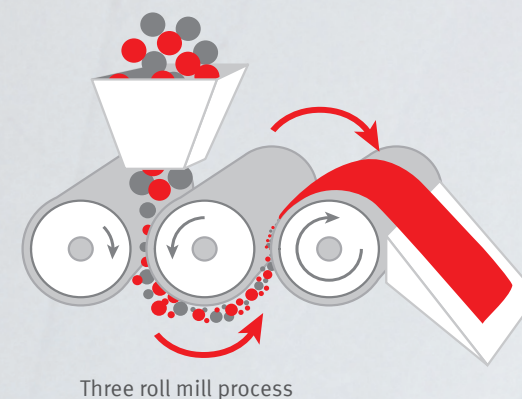
Machine settings, various temperatures and power: All process relevant parameters are displayed and recorded for comprehensive process documentation and reporting. Our 8.4" color screen is the perfect human-machine interface which makes the operation of the machine intuitive, easy and transparent.

EXAKT – because precision matters.

## HIGHLIGHTS

- › Advanced and versatile safety concept. Particularly safe operation mode for the cleaning process
- › Numeric or graphical real-time presentation of the dispersing process
- › Continuous recording and documentation of all relevant production parameters. Easy to use data transfer via USB interface. External Windows PC analyzing software DataLog PLUS
- › Adjustable gap size in the range from 5 to 180  $\mu$ m
- › For R&D and production: Variable throughput from as little as 10 ml up to 18 l/h at a 10  $\mu$ m gap\*
- › One-pass calibration – automatic adjustment of the basepoint and parallelism of the rollers
- › Different roller materials: Chrome or tungsten carbide plated steel and aluminum oxide or silicon carbide ceramic
- › Pressureless or pressurized system with temperature value display and recording

\* depending on machine configuration and selected options



Three roll mill process