

EXAKT THREE ROLL MILL 50 I

The All-Rounder



EXAKT

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TARGETED DISPERSION

EXAKT three roll mills stand for directed homogenization and dispersion to control the functional properties of materials. Key processing factors are the particle size and distribution, the rheological properties as well as the preservation of particle structure and function.



EXAKT
Three Roll Mill 50 I

The distinguishing process advantages of the 50 I are:

- Consistent and uniform energy input
- Specific energy input and thus, controllable stress of particles
- Achievement of homogeneous particle sizes and distributions in the matrix
- Large range of particles and viscosities that can be processed

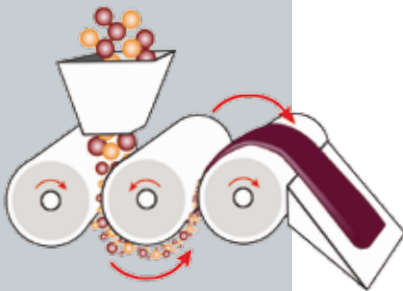


Ideal for particle fineness down to 10 µm

The EXAKT 50 I is a straightforward and versatile device specially designed for quantities up to 7 l/h and particle finenesses down to 10 µm.

The EXAKT 50 I is particularly suitable for research and development. Be it in pharmaceuticals, dental technology or cosmetics, for food technology, color blending or electronic applications.

The device is also ideal for quality control and training.



EASY TO USE

The substance to be processed is fed via the hopper or directly between the feeding and the center roller, is pulled in and then finely dispersed. The substance sticks to the bottom of the second roller, from where it is transported to the second roller gap, pulled in again and homogenized a second time and dispersed even finer. The scraper system removes the finished product from the third roller.

COMPARISON OF DIFFERENT PROCESSING PROCEDURES

1 Conventional mixing procedure: Crystalline substances are clearly visible

2 Homogenized and dispersed with the EXAKT 50 I: Regular and fine consistency of the dispersion



PRECISE RESULT

The high processing quality is ensured through precise process control, speed and the uniform feeding of the product.

FLEXIBILITY AND EFFECTIVE CLEANING

The innovative removable roller set is ideal for handling the wide variety of products.

Multiple roller sets make work flexible and fast. Downtime when changing materials is avoided and the risk of cross-contamination reduced.

The generously designed roller set makes cleaning convenient and easy. All surfaces in the processing area are made of stainless steel. The process is low-loss and clean.

SAFE AND DURABLE

- High safety standard due to integrated electrical and mechanical overload protection as well as prominently positioned emergency-off switch
- High-quality materials
- Easy-to-assemble, self-aligning scraper base with replaceable knives
- Speed control
- Robust metal housing, solid, compact and durable

TECHNICAL DATA

Roller Ø	50 mm
Roller length	150 mm
Roller options	· Aluminum oxide rollers, Al ₂ O ₃ · Chrome-plated hardened steel
Scraper options	· Aluminum anodized scraper base · PFA-coated
Hopper	Stainless steel
Scraper knife options	· Steel, chromium-plated or nickel-plated · Aluminum oxide, Al ₂ O ₃ · Epoxy resin · Plastic
Length/Width/Height	370/270/290 mm
Throughput	up to 7 l/h
Weight	19–23 kg depending on equipment
Power	180 W
Speed	50–500 rpm
Speed ratio	1 : 1,8 : 3,3

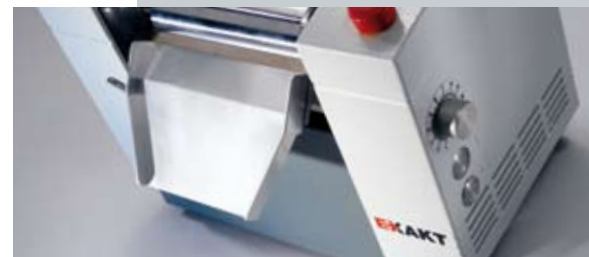
Subject to technical alterations



Directed processing



Easy-to-remove roller set



Versatile, safe and durable



Perfect result



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