

# SDY 200 – Grand Press Capacity for small Batch Sizes.

Lab scaled Three Roller Technology provided by Buhler.

## The proven three-roll mill for laboratory applications, research and small-scale production

For universal applications and to meet the most stringent quality standards. Convenient, easy operation, handy design and easy to clean.

## Convincing Advantages for Process Engineering

Due to the powerful, hydraulic roll pressing system unique high linear loads can be reached. Combined with the difference revolution speed of the highly wear resistant rolls this leads into outstanding **shear rates**.

The SDY-200 meets this deciding criteria for successful three roll processes better than any other lab scaled three roll mill on the market.

As a result the SDY-200 offers advantages such as better product quality regarding **fineness** and **particle size** distribution as well as reduced production times to reach the targeted qualities. Conclusions concerning quality and scale-up properties in respect of large scaled Production can be drawn quick and reliable.

- Unmatched linear loads
- Result in Unique shear rates
- Result in highest quality within shortest processing time



## Examples out of the wide Range of Applications for low- to high-viscosity Masses



All Kinds of Printing Inks



Pigment Concentrates



Cosmetics and Pharmaceuticals



Artist Colours



Materials for electronic Components



Chemicals

### Operating principle and Operation

Each of the three rolls is equipped with an individually adjustable high-efficiency cooling system. Automatic, precise control ensures constant roll temperatures and thereby uniform, reproducible operating conditions.

The hydrodynamic roll pressing system guarantees high quality consistency, high throughput and permanently stable, reproducible pressures in the roll gap.

An adjustment mechanism allows a defined roll gap to be set. This permits the processing of short, dilute and low-viscosity products.

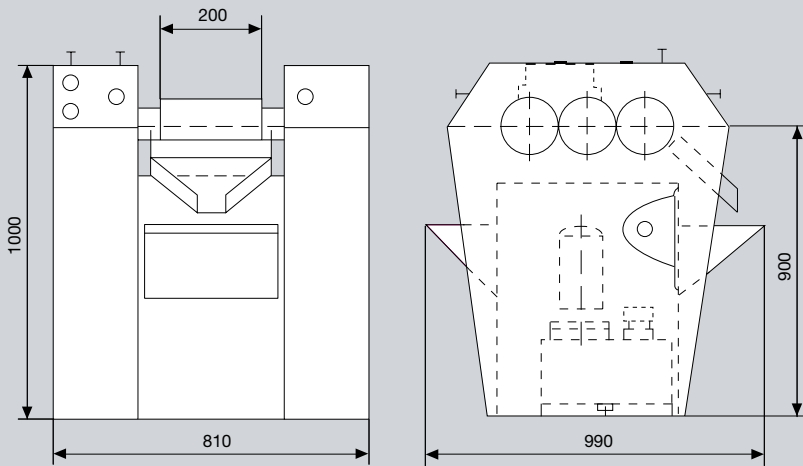
Three roll operating positions can be selected:

- Pressing = working position for fine grinding and dispersion
- Mixing = intake gap is pressed for intermixing the material
- Disengagement = rolls are disengaged for cleaning

### Safety

The machine will automatically stop, among other things, when the cooling water supply is interrupted, the motor is overloaded, or hard foreign objects are drawn into the roll gap. An electrically interlocked safety bar covers the intake gap during cleaning of the rolls.

## Technical data.



#### The exclusive SDY-200 equipment-concept

- Centrifugally cast rolls
- Automatic roll cooling
- Safety bar with interlock
- Mechanical gap adjustment
- 2,2-kW-motor
- ATEX II2G EEx c T3
- Hood (optional)
- Stainless machine frame (optional)

SDY 200	Rolls		Installed power kW	Approximative weights in kg			Volume of seaworthy packing in m <sup>3</sup>
	Ø	length		net	gross	by sea	
	150	200	2,2	520	570	725	1,6

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