

High performance  
three-roll mill with  
VIVA roll technology.

SDX



# Fully hydraulic three-roll mill SDX. Meeting highest quality demands.

SDX – a three-roll mill designed for universal applications and for meeting the most stringent quality standards. Convenient, easy operation, handy design and easy to clean. Versatile machine for low to high viscosity masses, e.g. all types of printing inks, artists' colours, industrial and decorative paints, toners, coating masses, etc. Due to the wide range of options and models, SDX also meets the demands of applications in the electronics, cosmetics and pharmaceutical industries.



## Paints and coatings

Batch sizes from 2 kg to 150 kg.

Processing of:

- All kinds of printing inks
- Industry and building paints
- Toner
- Coating masses



## Chemical applications

The special edition in stainless steel fulfils the requirements of chemical and pharmaceutical applications regarding:

- Hygiene
- Base resistance
- Acid resistance



## Electronic materials

Wear resisting ceramic rolls guarantee processes free of contamination.

Processing of:

- Conductive inks
- Ceramic pastes
- Printed circuit boards PCB
- Dispersions for LCD and PDP



## Cosmetics

Processing of:

- Lipstick
- Mascara
- Make-up
- Soap



# Fully hydraulic three-roll mill SDX. Your Advantages.

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 cooling water supply is automatically stopped when the machine is not running. This prevents undesirable cooling of the rolls and unnecessary water consumption. The hydrodynamic roll pressing system guarantees high throughput and permanently stable, reproducible pressures in the roll gap.

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

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

# VIVA – The revolutionary roll technology. Camberless Rolls.

In the past nine decades Buhler has accumulated extensive competence in developing high performance and reliable three-roll mills. An outstanding result of these developing efforts is the patented Viva roll technology. Viva rolls are the first camberless rolls on the market. Conventional rolls are limited to work in a narrow pressure range because of their camber. Viva camberless rolls

whereas can be used in any pressure range. The secret of this principle is hidden. A system of dynamic active chambers inside the roll guarantees highest flexibility and perfect performance. Equipped with Viva rolls, one and the same machine can handle demanding grinding, conditioning and potting tasks.

## **SDX CLS**

- Camberless **Viva rolls made of steel**
- Wide pressure range
- High flexibility

## **SDX CLC**

- Camberless **Viva rolls made of ceramic**
- High wear resistance
- Process free of contamination
- Unique cooling performance



# Technical data.

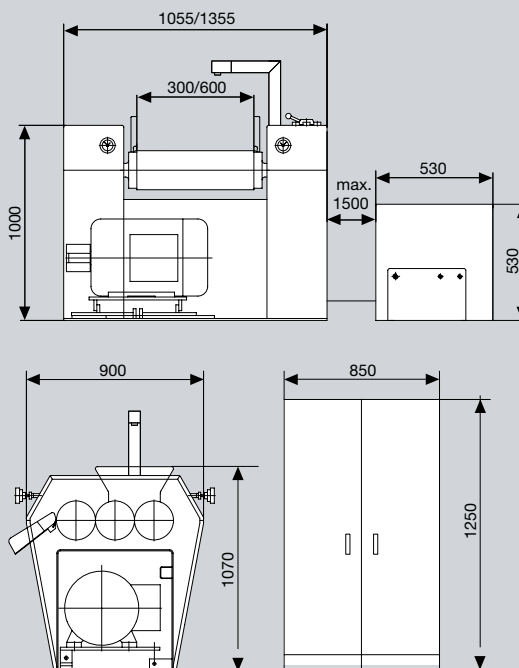
## Specification

S = standard features

O = optional features

Efficient batch sizes of 2 to 150 kg

Centrifugally cast rolls	S
VIVA rolls made of steel	O
VIVA rolls made of ceramic	O
Closed cooling circuit (only VIVA)	S
Automatic roll cooling	S
Safety bar with interlock	S
Mechanical gap adjustment	S
7.5 kW motor	O
13.5 kW motor	S
17.5 kW motor	O
II 2G EExc T3 X	S
Exe de II B T4	O
Drip oiler	O
Stainless construction of parts in contact with the product	O
Automatic product feed control with dry running protection	O
Hood	O
Product level monitor	O
Stainless machine frame	O



Typ	Rolls		Installed power kW	Approx. weights in kg incl. Motor			Volume of seaworthy packing in m <sup>3</sup>
	Ø	L		net	gross	by sea	
SDX 300	200	300	7,5	920	1150	1230	1,7
SDX 600	200	600	13,5 / 17,5	1120	1350	1430	2,1

## Worldwide presence.

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# Services.



Training of customer personnel by Buhler specialists.

## **Technology centres all over the world**

- Extensively equipped in Switzerland, Germany, USA and Japan
- Qualified and experienced technologists
- Focused development of formulation, process and equipment
- Simulation and process optimisation

## **Operational training**

- On site personnel trainings
- Focused courses in our technology laboratories
- Wide range of topics, managed by our technologists

## **Installation and start-up**

- Short installation and start-up time
- Competent installation
- Professional start-up

## **Plant engineering**

- Tailored concept studies
- Process engineering from small production unit up to turnkey plants
- From one source: equipment, technology and automation
- Professional quality, cost and time scheduling

## **Customer service**

- Consulting by our engineers and service specialists
- Ensuring lifetime operational efficiency of equipment
- Support by a worldwide and efficient spare parts service

## **Roll overhaul**

- Professional overhaul of your rolls
- Ensure constant, high quality
- High economic efficiency

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