

Three-roll Mill.

SDW-800



Fully hydraulic three-roll mill for top quality requirements.

SDW 800 – A three-roll mill for universal applications and top quality requirements. Characterized by its convenient, easy operation; allows quick and easy cleaning. Wide range of applications for low-viscosity to high-viscosity

masses such as printing inks of all types, artist's colors, industrial and building paints, toner, coating masses, fats, etc. as well as for products processed by the electronics and cosmetics industries.



Possible uses from a wide range of applications for low-viscosity and high-viscosity products



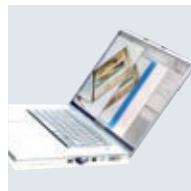
Printing inks



Artist's colors



High value coatings systems



Materials for electronic components



Cosmetics and pharmaceuticals



Sealing compounds and lubricants

Distinct process technology benefits giving consideration to safety aspects.

The high-performance hydraulic roll pressing system enables uniquely high line pressures to be achieved. In combination with the differential speeds of the highly wear-resistant rolls, this produces outstanding shearing rates. The resulting advantages include higher product quality in terms of fineness and particle size distribution plus faster achievement of the required end quality.

In sum, this means:

- Very high line pressures
- Therefore unique shearing rates
- Therefore top quality within a very short time

Each of the three rolls is equipped with a high-efficiency cooling system that can be separately controlled. Automatic high-precision control ensures constant roll temperatures and therefore uniform, reproducible operating con-

ditions. The cooling water supply is automatically stopped when the machine is idle. This prevents undesirable cooling of the rolls and unnecessary water consumption. The hydrodynamic roll pressing system guarantees a constant product quality, high throughputs, and consistently stable, reproducible pressures in the roll gap. Three roll operating positions can be selected:

- Pressing = working position for grinding and dispersing
- Mixing = intake gap is pressed for intermixing of the product
- Disengagement = rolls disengaged for cleaning

An optimized adjustment mechanism allows a defined roll gap to be set. This, in turn, enables the processing of short, fluid, and low-viscosity products.



Safety

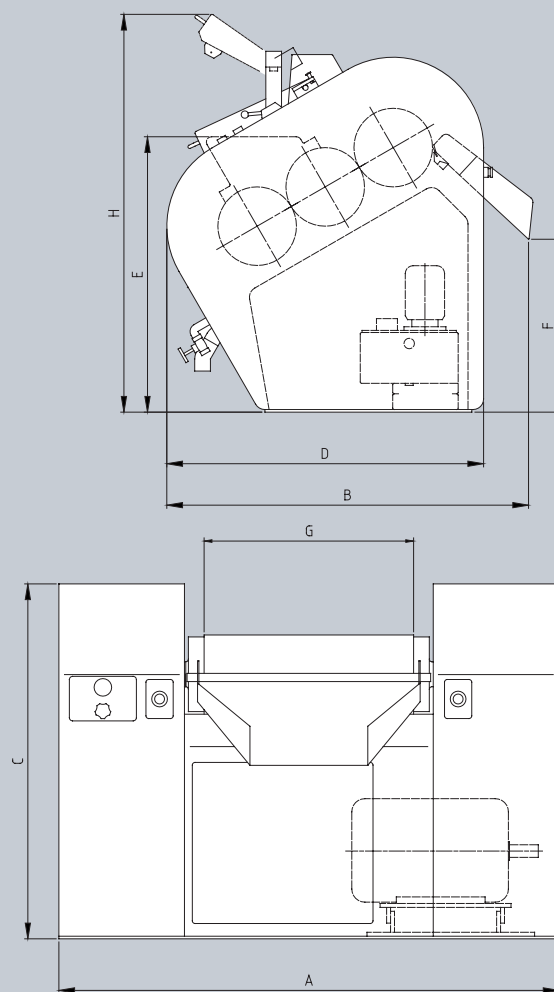
The new Buhler safety concept for three-roll mills fulfills the latest CE requirements.

- Swiveling aluminum guard for feeding product to the rolls by pump, press-out system, or manually
- Electrical detector in collection sump protects the intake area underneath the scraper knife
- Safety bar for cleaning

Technical data.

Equipment concept

S = Standard O = Option	SDW 800
Efficient batch sizes from 150–250 kg	
Centrifugally cast rolls	S
Automatic roll cooling	S
Safety features	S
Mechanical gap adjustment	O
30 kW motor	S
ATEX II2G EEx c T3	O
Drip-feed lubricator	O
Automatic wedge lubrication	O
Components in contact with product of stainless steel	O
Automatic feed control with dry-running protection	O
Product level detector	O
Hydraulic filling system	O



Technical data, weight, etc.

SDW 800	Dimensions in mm						Rolls			Motor power	Approximate weights in kg		Volume of seaworthy packing in m ³
	A	B	C	D	E	F	Ø	G	H	kW	net	seaworthy packing	
	1910	1365–1410*	1355	1210	1055	655–670*	300	800	1520	30	2600	3100	

* Depending on position of scraper

Our Services.



Training of customer personnel by Buhler specialists

Technology laboratories worldwide

- Extensively equipped in Switzerland, Germany, the USA, and Japan
- Competent and experienced technologists
- Solution-oriented development of formulations, processes, and equipment
- Simulation and fine-tuning of processes

Training of customers' personnel

- Local personnel training courses
- Selective specialist courses in our technology laboratories
- Wide range of programs, organized and headed by our specialists

Installation and start-up

- Very short installation and start-up times
- Competent installation
- Specialist start-up
- Professional construction site management

Plant engineering

- Customized design and feasibility studies
- Process engineering for small production cells up to large-scale turnkey plants
- Single-source supply: process, technology, automation
- Professional quality planning, budgeting, and scheduling

Customer service

- Consulting by our engineers and service specialists
- Assurance of smooth operation of your plant throughout its life cycle
- Support by a global, efficient spare parts service

Roll reconditioning

- Specialist reconditioning of your rolls
- For consistently high product quality
- Consistently high efficiency

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