

LAB SHEAR ROLL BSW 100

For Highly-homogenous mixtures



Equipment features Basic machine:

- Individual roll drive with frequency-controlled AC gear motors
- Parallel or conically adjustable gap between rolls
- Pneumatic roll gap adjustment with toggle lever reinforcement
- Controlled from operator panel
- Protective clothing with door monitoring in operating range of rolls
- Controls integrated in machine room
- Material feed: hopper
- Material output: slide

Technical details:

| | | |
|-----------------------------|-------------------|--|
| Dimensions (L x W x H) | mm | 2 600 x 1 200 x 2 000 |
| Working height | mm | 1 100 |
| Weight | kg | approx. 1 300 |
| Roll diameter | mm | 100 |
| Width of roll barrel | mm | 600 |
| Drive capacity | kW | 2 x 7 |
| Roll speed | min ⁻¹ | 20 – 120 [adjustable] |
| Roll gap | mm | 0.5 – 1 max. 40 [with quick release] |
| Roll pressing force | N | max. 2 x 60 000 |
| Electrical connection power | kW | 16 |
| Output | kg / h | 2 – 12 [depending on the material being processed] |



Materials:

- Duroplast compounds
- Thermoplastic rubber
- Ceramics
- Powder metallurgy (MIM / CIM)
- Nitrocellulose

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Options:

Basic machine:

- Electrical roll adjustment
- Machine can be moved on rolls
- Electrical material jaw

Control:

- Electrical roll gap measurement
- Measurement of pressing force
- Measurement of roll drive output
- Product parameter lists for 40 parameter records
- Data memory and interface for reading
- Cleaning mode
- Material feed and output interface
- Interface for temperature adjusters (including all displays)

Material feed:

- Vibrating chute (firm mounting on machine frame) with 10 litre material hopper and drop shaft for the rolls, conveyor volume can be controlled via potentiometer.
- Conveyor belt (firm mounting on machine frame) with 10 litre material hopper, supply pipe for the rolls, conveyor volume can be controlled via potentiometer.

Material output:

- Drain tray
- Vibrating chute (firm mounting on machine frame), conveyor speed can be controlled via potentiometer
- Cooled vibrating chute (firm mounting on machine frame), conveyor speed can be controlled via potentiometer
- Conveyor belt (firm mounting on machine frame), conveyor speed can be controlled via potentiometer

Temperature adjustment:

- Water temperature adjusters (4 pcs.) with 4,5 kW heat output, for maximum supply temperature of 160°C; each device has its own control panel for temperature pre-selection, including materials for connecting to the shear roll (hose length 4 m)
- Temperature adjusters for heat transfer oil (4 pcs.) with 8 kW heat output, maximum supply temperature of 280°C; each device has its own control panel for temperature pre-selection, including connecting pipes.

QUESTIONNAIRE FOR TENDER PREPARATION: Fax +49 6725 91925-200

We work closely with our clients to make our projects a success.

Tell us which requirements your products have to fulfil and we will work with you to develop an individual system adapted to the ideal raw material.

| Requirements/ options | | Temperature of the melting point | |
|--------------------------|--|-------------------------------------|--|
| | | Binder | |

Material: CIM MIM **Acceptance:** Granulate Stripes

Your contact details:

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We will gladly schedule a test on our lab shear roll with you.

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