



Product Overview

The equipment is a heavy-duty, precision-engineered two-roll processing mill designed for reliable and continuous operation in rubber and plastic processing applications. It features surface-hardened hollow rolls with controlled heating and cooling, robust cast iron housings, accurate roll gap adjustment, and a rigid fabricated base for stable installation.

Standard Equipment & Construction Details

Roll Assembly

- **Front Roll**
 - Diameter: 152.4 mm (6")
 - Face Length: 330 mm (13")
 - Material: Chilled cast iron / alloy steel
 - Construction: Surface hardened, hollow cored
 - Fitted with rotary pressure joint for circulation of heating/cooling medium
- **Rear Roll**
 - Diameter: 152.4 mm (6")
 - Face Length: 330 mm (13")

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Material: Chilled cast iron / alloy steel
- Construction: Surface hardened, hollow cored
- Fitted with rotary pressure joint for circulation of heating/cooling medium

Housing & Stands

• Roll Housings

- Quantity: 4 nos.
- Material: Cast iron
- Bearings: Antifriction roller bearings
- Lubrication: Grease-packed
- Sealing: Leak-free seals for long service life

• Stands

- Quantity: 2 nos.
- Construction: Cast iron / steel fabrication
- Treatment: Stress-relieved
- Machining: Accurately machined for proper housing alignment

Roll Gap Adjustment System

- Type: Hand wheel operated
- Applicable to: Front roll housings
- Working Range: Up to 8 mm
- Mechanism:
 - Two sets of worm and wheel
 - Engagable common shaft
 - Threaded spindles for synchronized movement of front roll housings

Drive & Transmission System

• Main Drive Motor

- Power: 7.5 HP
- Speed: 1000 RPM

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- Supply: 415 V, 50 Hz, 3-Phase
- Enclosure: TEFC
- Type: Squirrel cage induction motor
- **Roll Speeds**
 - Front Roll Speed: 22.85 RPM
 - Rear Roll Speed: 32 RPM
- **Friction Ratio**
 - 1 : 1.4
- **Transmission**
 - Worm reduction unit directly coupled to rear roll
 - Connecting gears provided for roll-to-roll transmission

Electrical & Control System

- Push button operated control panel
- Direct-On-Line (DOL) starter for main motor
- Operating modes:
 - Inch
 - Continuous
- Provision for roll reversal during emergency stop
- Separate DOL starter for auxiliary motor(s), if applicable

Mill Base

- Heavy-duty steel fabrication
- Designed for anchor bolt foundation mounting
- Ensures rigidity and vibration-free operation

Standard Accessories Supplied

- Gear guards – 1 set
- Hinged type guides – 2 sets
- Shoe type electromagnetic brake – 1 no.

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- Emergency stop cradle – 1 no.

Temperature Control

- Water Temperature Control Unit provided
- Maintains consistent roll temperature during operation

Overall Dimensions & Weight

Parameter	Specification
Length (L-R)	1900 mm
Width (F-B)	1300 mm
Height	1800 mm
Approx. Weight	1600 kg

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