

Velocity Engineers Private Limited



Add: B 49/1, Industries Area, SITE IV, Sahibabad Industrial Area, Ghaziabad, Uttar Pradesh- 201010

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Φ500 High-Speed Double Twisting Bunching Machine

1. Main Performance Parameters

- **Inlet conductor diameter:** $\Phi 0.08$ – $\Phi 0.45$ mm
- **Inlet insulated wire diameter:** Up to 1.0 mm
- **Finished twisted conductor cross-section:** 0.35 – 2.5 mm²
- **Twist pitch range:** 4.22–39.64 mm
- **Maximum rotating speed:** 2200 RPM

2. Main Component Brands

- **Main Motor:** Siemens
- **Inverter:** Inovance
- **PLC Controller:** Inovance
- **Bearings:** NACHI / NSK / SKF / FAG
- **HMI (Human–Machine Interface):** WEINVIEW (corrected spelling)

3. Equipment Details & Features

3.1 Mechanical Structure

- Machine frame fabricated from **A3 steel plate and channel steel**, welded and subjected to **stress-relief annealing**, followed by precision milling.

3.2 Twisting & Take-Up System

- **Twist direction:** Selectable (Left / Right)
- **Take-up bobbin diameter:** $\Phi 500$ mm
- **Take-up tension control:** Magnetic powder clutch
- **Pitch adjustment:** Manual by gear-change mechanism
- **Take-up bobbin loading/unloading:** Manual hydraulic lifting system

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3.3 Drive & Braking

- **Main drive power:** AC 4 kW motor
- **Braking system:**
 - 10 kg electromagnetic brake
 - Automatic braking on internal or external wire break
 - Integrated safety interlock protection

3.4 Lubrication & Operation

- **Lubrication system:** Automatic lubrication with low-oil alarm
- **Noise level:** < 75 dB
- **Safety protections:** Limit switches and emergency protection devices

4. Machine Dimensions & Weight

- **Overall dimensions (L × W × H):** 2325 × 1300 × 1290 mm
- **Machine weight:** Approx. 1800 kg



Picture is just for reference

Tap to see video