



Velocity Engineers Private Limited

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Φ500 High-Speed Double Twisting Bunching Machine

1. Main Performance Parameters

- Inlet conductor diameter: Φ0.08–Φ0.45 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: Φ500 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