



Velocity Engineers Private Limited

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Φ300 High-Speed Double-Twisting Bunching Machine

1. Main Performance Parameters

- **Inlet conductor diameter:** Φ0.05–Φ0.28 mm
- **Finished twisted conductor cross-section area:** 0.137–0.5 mm²
- **Twist pitch range:** 4.36–17 mm
- **Maximum rotational speed:** 3000 RPM

2. Main Component Brands

- **Main Motor:** Dongguan Motor
- **Inverter:** Inovance
- **PLC Controller:** Inovance
- **Bearings:** NACHI / NSK / SKF / FAG
- **HMI Touchscreen:** Weinview

3. Equipment Details & Features

3.1 Mechanical Structure

- Machine frame constructed from **A3 steel plate and channel steel**, welded and processed with **stress-relief annealing** followed by milling for precision.

3.2 Twisting and Take-Up

- **Twist direction:** Left or right selectable
- **Take-up bobbin diameter:** Φ300 mm
- **Take-up tension control:** Magnetic powder clutch
- **Twist pitch adjustment:** Manual, via gear replacement
- **Take-up bobbin loading/unloading:** Manual hydraulic lifting system



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3.3 Drive & Braking

- **Main drive power:** AC 2.2 kW motor
- **Braking system:**
 - 5 kg electromagnetic brake
 - Automatic braking during internal or external wire break
 - Integrated safety protection

3.4 Operation & Safety

- **Lubrication:** Manual lubrication using grease gun
- **Noise level:** < 75 dB
- **Safety protection:** Limit switch and mechanical safety interlocks

4. Machine Dimensions & Weight

- **Overall dimensions (L × W × H):** 2020 × 1100 × 1070 mm
- **Machine weight:** Approximately 1100 kg



Picture is just for reference

Tap to see video