

Single-Lane Servo High-Speed Sausage Linker

Model: ZT-ZX300 | Product Manual (English)

1. Product Overview

This fully automatic sausage linking machine is designed for high-speed, precise portion linking of sausage products.

- Electric automatic linking; safety cover must be closed during operation.
- Advanced linking mechanism for neat and consistent knots.
- Servo drive with automatic tensioning system for fast and stable linking.
- Stainless-steel construction; compact footprint, high efficiency and low energy use.
- CNC-machined key parts for high assembly accuracy and stable running.
- Imported high-precision bearings for reliable long-term use.
- 100% factory testing at rated speed and 20% overspeed for durability.
- Automatic oil pump for convenient lubrication.
- Waterproof design to reduce water ingress into the machine.
- Modular structure for quick assembly, maintenance and cleaning.

2. Technical Specifications

Item	Specification
Applicable casing diameter	φ9–42 mm
Link length	10–400 mm
Power supply	Single-phase 220V 50Hz
Linking speed	Approx. 10–300 links/min
Dimensions (L×W×H)	1020 × 620 × 1100 mm
Motor power	1.5 kW

3. Working Principle

After power-on, the electronic control system initializes. Confirm the cover is closed and no foreign objects are present. The machine automatically returns to home position and is ready for production. Set parameters according to product requirements. When the power indicator is on and the emergency stop is released with the run indicator lit, press Start to begin linking, and press Stop to halt.

4. Operation & Settings

- Length setting: set link length via the length potentiometer / dial (unit: mm). Fine-tune based on actual product length.
- Turns setting: set linking turns on the touchscreen, typically 2.5–4 turns depending on casing.
- Speed setting: adjustable from about 50–300 according to product needs.

5. Adjustments

- Thread loading: follow the loading diagram; pass the cotton thread through the tensioner, glue roller and thread path into the needle.
- Scissors height: loosen the fixing screw and adjust the scissors opening height as shown in the diagram.
- Take-off wheel gap: adjust the gap according to sausage diameter as illustrated.

6. Maintenance

- Regularly lubricate moving mechanisms, guide rails and scissors shafts with oil.
- Apply grease to the take-off wheel shaft surfaces as needed.
- Keep the machine clean after each shift to extend service life.

7. Safety Precautions

- Power supply is ~220V. Do not connect to 380V.
- The machine contains precision electrical components. Do not rinse the control cabinet with water.
- Do not dismantle or modify the machine without authorization.
- Perform regular lubrication and maintenance. Keep the machine clean.
- Do not touch moving parts (especially the linking / take-off wheels) while the machine is running.
- Ensure reliable grounding of the equipment.
- Unauthorized modification of the machine is prohibited.