

Reliable & Stable Assistant



Automatic Double- sided Flat Ribbon Cable Crimping &Insert- ing Machine

RSA-FCI-3020



Feature

- ▶ Support terminal crimping inspection and crimp pull-force test (IT terminal 0.3mm²; pull-force ≤30N)
- ▶ Real-time production monitoring with multi-alarm modules; defective products automatic sorting & collection
- ▶ Comprehensive detection & auto-alarm: missing housing/wire/terminal, wire knot, incomplete housing insertion, copper wire breakage (vision & pressure inspection)
- ▶ Built-in crimp-force monitoring system with stability & sensitivity test function

Safety Specifications

- ▶ Hazard-zone isolation before machine startup
- ▶ Easily-accessible emergency-stop button for immediate shutdown
- ▶ Warning labels fitted on rotating, clamping and reciprocating parts
- ▶ Protective guards for exposed moving parts; full-machine protective cover installed
- ▶ Pneumatic & mechanical components reasonably arranged to avoid accidental contact
- ▶ Exposed surfaces free of sharp edges and burrs
- ▶ Reliable power grounding, protective sleeve at cable entry
- ▶ Pressure gauge with color-coded zones: low-pressure, normal-pressure, over-pressure warning

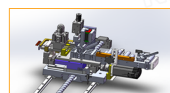
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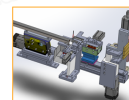
Specification

Model	RSA-FCI-3020
Machine Functions	30-20 AWG; housing pitch 1.0-3.96mm, custom wire gauges available
Wire Gauge	350 PCS/h; up to 1150 wires/h (4-wire simultaneous for 6P-2.5). Multi-wire operation per wire gauge & housing width
Processing Speed	65-1000mm, customizable
Cutting Accuracy	±1mm (+ set length ×0.02)
Stripping Length	0.1-15.0mm
Crimping Force	2T
Control System	PLC motion controller
Detection Items	Wire missing/over-tight/knot, crimp-strip defect, air-pressure drop, terminal missing/crimp status, housing missing/insertion position, crimping pressure
Power Supply	220V, 50/60Hz
Air Supply	0.4-0.5MPa, consumption:130-180 Nl/min
Pay-off Unit	Multi-spool stand matched to customer wires
Take-up Unit	Automatic conveyor
Pressure Monitoring	Real-time crimp pressure monitoring, alarm on over-limit
Ambient Temp	-10℃~45℃Recommended:15℃~30℃
Warranty Period	1-year from commissioning. Excludes wearing parts(blade, cutter holder) & man-made damage
Warranty Coverage	Main machine, pay-off unit, vibratory feeder, take-up unit
Main Machine Dimension	1600×1200×1650 mm

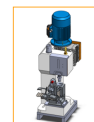
Part of Machine Structure



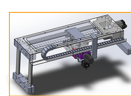
① Front-end Crimp Transfer Unit



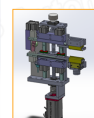
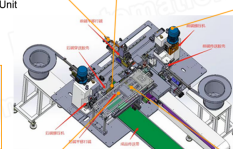
② Housing Feed Unit



③ Precision Crimping Machine



④ Dual-side Transfer Unit



⑤ Wire Cut-Strip Unit

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Easier Wiring Harnesses Making

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