P021 CO (Programmable Coaxial Crimper Machine)

Technical Specifications with Coaxial Cable Kit



P021 CO Base Units

1	P107C Crimping Machine
2	Electronic Arm with Pneumatic X-Axis: BE021-XP
	Electronic Arm with Electrically Controlled X-Axis: BE021-XE
3	Coaxial Contact Crimping Kit
4	Quick-Mount Base Plate for Applicator and Stripper
5	Strip Cutter – TBP
6	BCC Unit for Scrap Wire Management
7	CDA10 Load Cell
8	Crimper Automation and Optimization – CAO

Optional

1	**Slide with Automatic Adjustment** • Resolution 0.01 mm – Adjustment range +1 / -1 mm • Automatic load cell curve compensation • Sequential automatic adjustment or panel-controlled adjustment for multi-core wires with different cross-sections • Sequential automatic adjustment or panel-controlled adjustment for mini-applicators without adjustment ring • Automatic crimp height adjustment	

2	**Terminal Feeding Unit 201130095** • Integrated lubricator • Optical sensor for end-of-reel terminal detection • Optical sensor for paper collector activation / reel unwinding control	
3	**Laser Calibration Gauge** • Calibration of minimum and maximum tolerance thresholds of the laser system	

P021 CO Technical Specifications

Machine Specifications	**Id**	P021 CO Coaxial Crimper Machine
	Mecal code	CG319000210042 (Standard)
	Description	P021 CO is a fully programmable machine designed for crimping single coaxial cables.
	Crimping working height	135.8 ± 0.02 mm
	Crimping stroke	40 mm
	Power supply | consumption	1 x 230 Vac – 50 Hz – 0.75 kW | Max Power 1,15KW Nominal Current 4,7A
	Operating pressure	6 Bar (electronically monitored: the machine stops in case of pressure drop or loss).
	Air consumption	165 L/min
	Process management	Electronically controlled via fixed monitor – pin positioning inside the outer contact.
	Interface monitor	7 '' – Touchscreen
	Load cell	CDA10
	Weight	140 Kg
	Dimensions (L x H x P)	760 x 825 x 500 mm 1000 x 1500 x 500 mm (inclusa bobina terminali)
Process Characteristics	**Wire feeding**	Manual insertion; automatic cycle start via sensor detection and fully automatic process completion.
	Processable cable types	RG174 RTK031
	Maximum cable outer diameter	Max Ø6 mm
	Stripping length	/
	Preparation length	/
	Cycle time	5 s (offline)
	Stripping blade closing resolution	/
	Stripping length resolution	/
	Epeatability on Crimped Cable Positioning (see *)	/
	Scrap management	/

APPLICATIONS – OPERATING MODES

Process type	Illustration	Description	SC021 - L
Outer contact crimping	/	The cable is inserted into the tooling with the pin already crimped. It is positioned inside a dedicated centering collet/funnel designed for the specific contact type. After activation of the cycle start sensor, the cable is aligned with the crimping axis and automatically inserted into the outer contact up to the dimension required by the specification. This insertion movement can be adjusted via the control panel to achieve precise positioning. The cable is considered within specification when its position falls within the nominal value ± tolerance range and is verified by a laser measurement system. If the correct position is detected, the machine proceeds with the crimping cycle. Otherwise, the cable is released and the machine returns to standby position, ready for a new cable.	✓

*** The variable insertion force applied to activate the cycle start sensor does NOT affect the final process result. After clamping the cable between the grippers, the machine automatically performs a ZERO reference search, eliminating this variable at each cycle.**

Legend

✓ Processable.

✗ Not processable.

✓ Processable, but not recommended or subject to verification.

Outer Contact Compatibility

Outer contact / Adapter kit	SF M /F	HFM M / F	FAKRA MINI M / F	HFR3C	R3C		
Bushing and pin adapter kit	✓	✓	✓	✓	✓		

Compatibility with Third-Party Applicators

Manufacturer	Model	Validation Date	Cable Type	Video	Notes

Dimensions





