

STRAIN 121 AND STRAIN DRIVER

ELECTROMAGNETIC GUNS AND CONTROL UNITS

STRAIN 121 electromagnetic guns represent a new breakthrough in electric guns. They are particularly suitable for applying and supplying micro-points of thermal adhesives even at very high speeds of up to 5000 mPas. They can attain a cycle speed of less than 1 millisecond and an overall lifecycle of tens of millions of strokes. STRAIN 121 guns are the most sophisticated, innovative, and technologically advanced on the world market today and stand out from their competitors due to their speed, compactness, precision, repeatability in supply, and ease and speed of installation, as well as being completely noise free.

Electrical connections

The electrical kit is easy, quick, and safe to extract.

Gun casing

The material used to make the gun casing is "Ergal", which significantly improves performance in terms of strength to resist mechanical forces. A hard oxide coating makes cleaning and maintaining the gun quicker and simpler.

Integrated module

All the gun's components are assembled inside the casing, which makes maintenance easier and reduces the quantity of spare parts required.

Glue filter



Easy to access and replace, it ensures a better distribution of the adhesive preventing the nozzle clogging due to the presence of impurities in the adhesive. It is integrated and easy to change.

Micro-regulation system

A precise micro-regulation system guarantees simple, perfect formation of micro-points of glue, even at very high speeds.

High speed actuator

This makes it possible to supply a glue point in less than 1 millisecond, with maximum repeatability and precision.

Energy Saving

An innovative energy saving system makes it possible to recover up to 50% of the electricity used for the gun to operate.

"Reduced-Cavity" Nozzle



A removable "Reduced-Cavity" nozzle made of special high strength material guarantees maximum repeatability, exceptional reliability, and very high precision, as well as uniformity of the micro-points of glue deposited.



The STRAIN DRIVER 121 digital control unit runs up to 2 guns fully independently, for all functions and allows repeatability that far outstrips normal applications, thanks to its innovative electronics.

Connections



A terminal board with a rapid coupling connector on the back of the unit is used to connect all the Input and/or Output signals and the photocells required for the system to operate properly

Graphic display

An LCD provides a graphic display of the sections and the parameters that can be set for programming the guns. The graphic icons are easy to interpret, even by non-specialist personnel, eliminating problems generated by codes and foreign languages to understand and meaning that the displays are all the same, independently of the country of use.

Light indicators

4 leds show the system status and any alarms or faults that arise while the unit is operating.

Safety key

Once the control unit has been programmed the data entered can be protected by using the safety key located on the front panel.

Programming selector

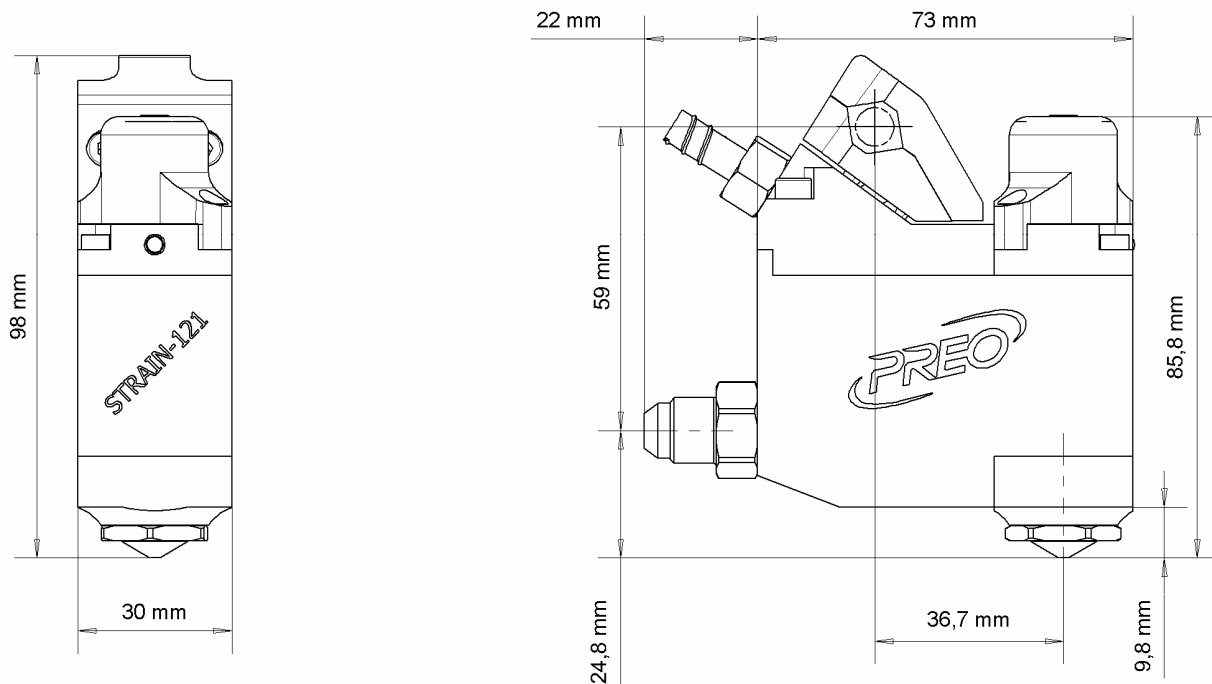
Another innovative feature is the programming method of all the operating parameters that is carried out through a single control consisting of a selector with built-in button. Every time the knob is pressed, another parameter appears, which is increased or decreased by turning the knob in a clockwise or anti-clockwise direction.



STRAIN 121 AND STRAIN DRIVER

ELECTROMAGNETIC GUNS AND CONTROL UNITS

DATA SHEET



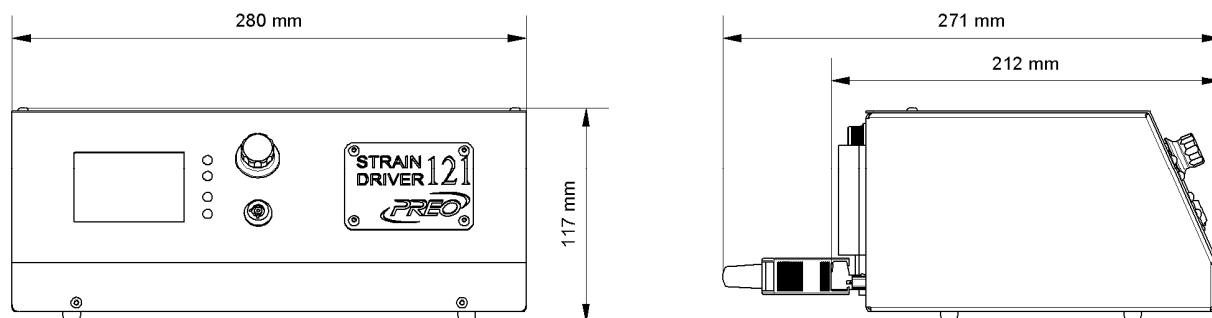
GENERAL SPECIFICATIONS

WEIGHT	900 g
FASTENING	fixing clamp with hole \varnothing mm 10 - 12
ADHESIVE TYPOLOGY AND VISCOSITY	Hot Melt up to 5,000 mPas
OPERATING TEMPERATURE RANGE	50°C - 200°C
ACCURACY	$\pm 1^\circ\text{C}$
TEMPERATURE CONTROL METHOD	cartridge heater element
NOZZLES	1 way (0,25 - 0,30 - 0,40 mm)
CYCLE SPEED	1 ms
MAXIMUM WORKING PRESSURE	55 bar

ELECTRICAL SPECIFICATIONS

VOLTAGE	220 VAC \approx 50 Hz single-phase
MAXIMUM SYSTEM POWER CAPACITY	160 Watt - 0,7 Amps
COIL VOLTAGE	24 V DC

DATA SHEET



GENERAL SPECIFICATIONS

NUMBER OF PROGRAMMABLE CHANNELS	2
POWER SUPPLY	220 VAC \approx 50 Hz single-phase
MAXIMUM GUN POWER RATING	95 Watt
INPUT LINE FUSES	3,15 A
OUTPUT LINE FUSES	6,30 A
INPUTS	NPN - PNP source 24 V DC
PROTECTION CLASS	IP30

© Copyright 2008 PREO SRL - All rights reserved - Subject to change without advanced notice - Printed in Italy - Edition EN-411 Strain 121 / 15/01/2008

ITALY DIVISION

e-mail : italia@preo.it
tel: 02 48601260 • fax: 02 4503323

PREO SRL

GLUE APPLICATION SYSTEMS DESIGN AND DEVELOPMENT
Via Alessandro Volta, 7 • 20094 Corsico (MI) • Italia

EXPORT DIVISION

e-mail: world@preo.it
tel: +392 45861343 • fax: +392 4503323

WWW.PREO.IT • WWW.PREO.IT • WWW.PREO.IT • WWW.PREO.IT • WWW.PREO.IT • WWW.PREO.IT