G3 RFID CRIMP FORCE ANALYSER

Incorporates RFID for tooling and materials input.
Incorrect materials or applicators are blocked by the system.
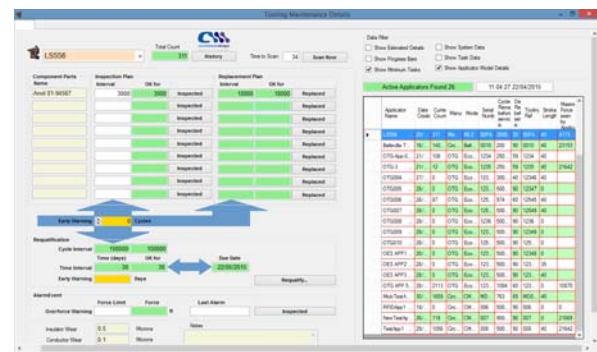Maintenance regimes are enforced.

The G3RFID brings total control and traceability to production. It has all the features of the new G3+, a high accuracy Crimp Force Analyser, complete monitoring and control of all CFA systems on the network, great reporting and web based interface. The G3RFID closes the loop on traceability and control with automatic tracking of jobs, operators, applicators and Materials via RFID readers. Production software enables remote control of all jobs issued to the shop floor.

> Tool tracking

The Engineering Centre software keeps a record of all tooling used in production, including maintenance schedules and audit reports helping the production facility to comply with Industrial standards such as TS16949.

Should an over-force be detected which could damage the Applicator, the system will block the applicator from being used on any press in the system, until such point the applicator has been inspected and marked as good. This stops potentially damaged tooling being used in production.

> Production automation

The G3RFID brings full automation to the set-up of the CFA from a known standard (No operator involvement required). Production control can send jobs straight to the press and with 4 RFID channels tracking tooling and materials, production can only commence when they are correct.
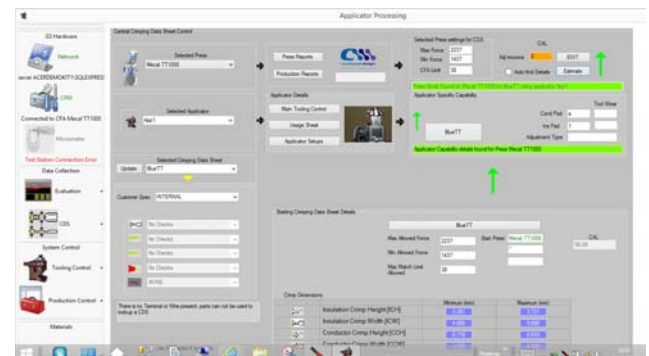
All production data is collected for full traceability of every job from start to finish, complete with full production reporting on quality, process checks and tooling as well as production set-up, down and run times.

> Production capabilities

Applicator processing extends the basic crimping data sheet to include applicator set-up for specific press, wire and terminal combinations.

The system provides a list of press and applicator combinations that are capable of running a particular job.

Innovative solution provider for the wire harness industry - Designed and manufactured in the UK, distributed worldwide

G3 RFID CRIMP FORCE ANALYSER

Incorporates RFID for tooling and materials input.
Incorrect materials or applicators are blocked by the system.
Maintenance regimes are enforced.

> Import Utility

Enables external data such as applicators, materials crimping setup information to be easily entered into the database saving time and money.

> Reports

Standard reports are provided that have been carefully designed to present all key production data. However, custom reports can also be provided for manufacturers who have specific requirements. Please contact us for more information.

> Web based interface

Web based graphical interface. Materials are recognised by RFID tags. The console clearly shows if the wrong material or tooling is entered for a production job and will block the press from starting.

> Micrometer

Our micrometer interface can be used by all presses within the cell or on individual presses. It is integrated into the system and all measurements are collected for analysis and validation purposes. It is intuitive with an easy menu, and clear instructions for each measurement to be taken.

> Standard Equipment

- ○ Evaluation Unit with 4 RFID Channels
- ○ Ram Force Sensor
- ○ Positional Encoder
- ○ DC Power Supply

> Pull Off Gauge

Our Pull off Gauge interface can be used by any press on the system. All data is collected in real-time for further analysis and validation.

> Optional Equipment

- ○ Micrometer
- ○ Pull Off Gauge
- ○ Calibration Jig

> Calibration Jig

Using our calibration jig, CFM and press, the system can be calibrated and a press compliance obtained. From this, correction data can be calculated, making the setting up of each process more accurate before production starts.

> Technical Specifications

Repeatability	0.1%
Resolution	10 Newtons
Measurement Range	0 - 20 kN
Operating Temperature	0 - 70 $^{\circ}$C
Sensor Type	Piezoceramic
Unit Size	85 x 103 x 35 mm
Power	9 - 24 DC
Evaluation Time	<20 ms
Communication	TCPIP, HTTP and UDP

For more information, please contact our sales team

sales@circuitmaster.co.uk   +44 (0) 1706 630606