

CRIMP FORCE ANALYSER – (SP – 3+)

Sai Paradise Machine Tools



Overview

Circuit master has extended the Crimp Force Analyser (CFA) to collect more production data and enable communication between the operator and databases more effectively, this new enhanced unit is the SP-3+ Crimp Force Monitor.

The CFA has been at the heart of real-time quality control for many years; however, there has been an ever growing need for further monitoring of the assembly process at the press. The G3+ Crimp Force Monitor addresses these issues by using the powerful evaluation unit to combine all data collection requirements in one compact cost effective system.

The system has been designed to be easy to install and operate so any production down-time is kept to a minimum. The system is designed to start working in a factory from day one as it can be used the same way as a standard CFA. As more production data becomes available, more of the systems features can be enabled until a comprehensive fully closed loop control system is established. Information is held centrally, this can then be passed to the CFA, removing the operator from “teaching” the CFA the job and thereby reducing operator errors. Crimp View shows real-time overview of all presses on the system, quickly alerting supervisors of any potential issues on the shop floor. Reports are easily run showing individual crimping, job or engineering data of both live and historic data. The SP-3 plus has been designed to work from day one and can be used the same way at our standard CFAs. The SP-3 plus is further extended by the use of Crimping data sheets (CDS). Key parameters are held in a database including Force limits, Match limits, Crimp Height and Pull Force measurements.

Features

1. In-line sensor enables accurate reading of each crimp produced
2. Clear display shows current info including stores jog set-ups and force curve
3. Installing the force sensor in the ram of the press reduces false fails in production and achieves a reduction in waste
4. The ram encoder eliminates false fails due to main functions affecting press speed
5. This filters out all press motor speed changes whilst still allowing accurate signature analysis to take place

Applications

It is used in Wire harness industries, Automobile industries, Home appliance industries, Control panel manufacturing industries.

Technical Details

Operating interphase	Push Button
Sensor Type	Piezoceramic
Repeatability	0.1%
Resolution	10 Newtons
Measuring Range	0-20 kn
Operating Temperature	0-70°C
Unit Size	85 x 103 x 35 mm
Power	9-24 DC
Evaluation Time	<20ms
Communication	TCPIP, HTTP and UDP