

Fully Automatic Machine for a Production Line

Machine for the Solar Industry



- Two cables processed in pairs
- Sorting and feeding of loose piece terminals
- Outer jacket roughed in-line
- Crimped with four point applicators
- Placed in magazines for subsequent operations
- Integrated quality monitoring system



Loose pieces before processing



Assembled parts



Two presses

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Description

The machine uses a transfer line concept to process pairs of cables that are attached to a distribution block for integration into a higher-level assembly in another production line. An integrated quality assurance system monitors the wire process by identifying and removing bad materials before they reach the final product.

The cable is automatically fed into the machine from a reel. The outer jacket is roughened in-line at two places which is required for a subsequent process. Two different lengths of cables are placed in sequence in a shuttle and transported to the next processing stations. The four ends are stripped in pairs. Loose piece pins and sockets are sorted and positioned in Schaefer four point crimp applicators using a vibratory bowl feeding system. A pin and a socket are attached on two of the stripped wire ends. The two remaining stripped ends are welded to terminals of a common distribution block. Finally, the completed assembly passes a quality assurance station and will be removed from the shuttle and placed into magazines for following operations in a processing line.

Examples of use

The fully automated cable processing machine is being used in the series production of parts for the solar industry.

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