



EPT-A1 SEMI AUTO IDC MACHINE

Product Brochure

EPT-A1 SEMI AUTO IDC MACHINE

TE Connectivity's (TE) new EPT-A1 semi auto insulation displacement contact (IDC) machine terminates wires to connectors without the need to strip the insulation from the wires. This new technology allows for quality, efficiency and cost-effectiveness for large, medium, and even small production volumes in various automotive and industrial applications. The vision inspection abilities allow the operator to ensure the appropriate wire colors are in a secure and correct position. The quality assurance devices have a force monitor and sensors that enable on-time termination force monitoring. The overall compact design and modular design allow for short machine cycle time of only 30 minutes changeover between 90° and 180° connectors. The machine offers lower initial investment costs while providing flexibility to process both 90° and 180° connectors by using just one machine. The easy handle on connector feeding automatically rotates the connector to the desired position. The carrier fixture for 2-20 pos prevents the need of changing over between different positions. The EPT-A1 semi auto insulation displacement contact (IDC) machine supports ERNI MicroBridge connectors and can easily extend to ERNI MiniBridge products and future IDC platforms with different fixtures.



Multiple
Assurance devices



Competitive Initial Cost



Suits any customer requirement



Very Short Machine Cycle Time

Product Features	Benefits				
Quality	Vision inspe appropriateQuality assu	 Wire insertion length check before termination Vision inspection abilities allows the operator to ensurethe appropriate wire colors are in the right position Quality assurance devices as force monitor and sensors enable on-time monitoring on termination force 			
	Overall compact design and modular designShort machine cycle time				
	Туре	90°		180°	
	P Number	2P-7P	8P-14P	2-20P	
Efficient and Cost Effective	Cycle Time	5s	6.5S	5s	
	 30 minutes only for changeover between 90°and 180° connectors Connector rotation mechanism can easily change between 90° and 180° connectors Handle on connector feeding automatically rotates connector to the desired position 				
Flexibility	over betwee Different macustomer re Supports EF extend to EF	over between different positions Different machine configurations are available upon customer request to best suit their needs			

Potential Industries and Applications

Industries:

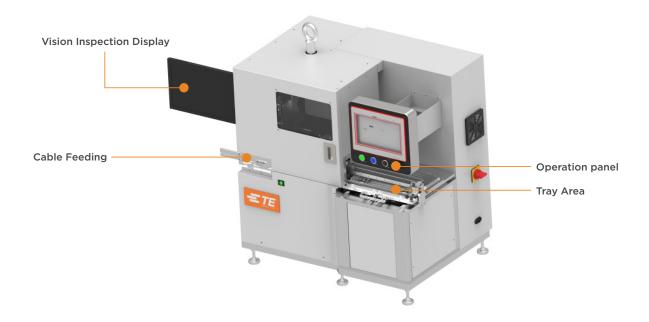
- Automotive
- Industrial

Applications:

- Automotive headlamps
- Front and rear-view cameras
- Electric vehicle battery
- LiDar, Radar

- Precision molded electronics
- Warehouse automation
- Hydraulic business CCTVcameras (building automation)

Machine Overview



Technical Details

Basic data					
Size	Dimension	650 mm X 1200 mm X 840 mm (W X L X H)			
	Weight	Ca. 450 Kg			
Energy	Power	AC 220V, Three Phases, 50 Hz			
	Air	Min 0.4Mpa			
Performance	Cycle	5-6.5 Seconds			
	Working condition relative humidity:	10-90%			
	Storage environment relative humidity	30 - 60%			

Basic Description

- Application for ERNI MicroBridge connectors, including 90° & 180°
- Compatible for different pole-number of ERNI MicroBridge series
- Automatically loading the ERNI MicroBridge connectors & manual inserting the cable
- Automatic rotating the ERNI MicroBridge connectors
- Manual press the start button, then automatic pressing the ERNI MicroBridge connectors
- · Color Camera checking the cable before pressing, and after pressing
- Laser camera checking the insertion quality of the 90° ERNI MicroBridge connectors
- Force & displacement monitoring the pressing quality

Choice of Machine Configurations

PN	Configurations	Description	
2447854-1	Combo for both 90 and 180 degree with CCD	Process both 90° and 180° connectors with one base machine, vision check on wire insertion length, and wire color	
2447854-2	180 degree with CCD	180° connector only, vision check on wire insertion length, and wire color	
2447854-3	90 degree without CCD	90° connector only, check on wire insertion length only	
2447854-4	90 degree with CCD	90° connector only, vision check on wire insertion length, and wire color	

te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's chandard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2023 TE Connectivity. All Rights Reserved.

08/23 Original

