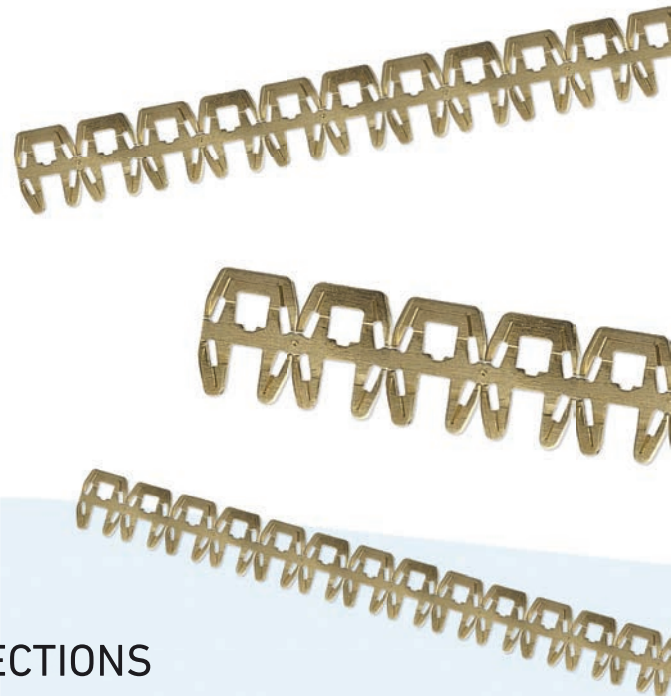




IDC Line INDIVIDUAL

MACHINE FOR PRODUCTION OF INSULATION DISPLACEMENT CONNECTIONS

Innovative Connection Technology

With machines from the "IDC-Line" series, insulation displacement connections can be automated with the highest precision. In the IDC process, insulated wires are directly contacted with connectors without prior stripping. At Schäfer, we offer solutions that implement such connections precisely and reliably using this technology, for example, on the stator of electric motors.

Functionality of the Process

To create the IDC connection, the insulated wires, in this case, a coated wire, are pressed into specially shaped slots of the IDC contact. Sharp-edged blades inside the slots cut through the wire insulation during pressing and establish the electrical contact.

MACHINE FOR PRODUCTION OF INSULATION DISPLACEMENT CONNECTIONS

Advantages of the Technology

This technology enables a reliable connection without the use of additional elements. The process is fast, simple, and particularly suitable for series production, as multi-core cables can also be contacted simultaneously.

Application Example for Electric Motors

This machine connects the wires of the windings with the respective anchor, ensuring a stable and durable stator that meets the high demands of electric motors.

Quality Assurance Functions

The integrated sensors for monitoring the insertion depth during each pressing reliably report deviations from the reference. This prevents the use of defective parts in the further process and supports quality assurance.

High Safety for the Operator

The safety of the operator during processing of the crimping machine is ensured by a monitored safety device. Opening safety doors interrupts the electrical safety circuit, stopping all motors. The machine fully complies with European directives, both in terms of mechanical and electrical safety and electromagnetic compatibility.

Production Process

- Inserting the stator by the operator
- Rotating the stator to the first contact position
- Feeding the contacts through the IDC station
- Separating the contacts by cutting them from the strip
- Inserting the contact into the slot and making the connection with the wire
- Cutting and vacuuming the excess wire
- Rotating the stator to the next contact position
- Making further connections



CONTACT US

**Schäfer Werkzeug- und
Sondermaschinenbau GmbH**

Dr.-Alfred-Weckesser-Straße 6
76669 Bad Schönborn
Germany
Phone: +49 7253 9421 0
E-Mail: info@schaefer.biz

FURTHER INFORMATION

WWW.SCHAEFER.BIZ

