

# Fully automatic production of ready-to-install IDC harnesses

IDC 9600 MS - With integrated quality monitoring units



*With the modular IDC 9600 MS processing system, you can produce ready-to-install IDC harnesses with different types of connectors fully automatically. The integrated quality monitoring units eliminate the need for elaborate subsequent checks and assure you of 100 percent quality.*

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## YOUR BENEFITS

- > Ready-to-install harnesses
- > Only good parts in deposit unit
- > No adjustments required on the monitoring units
- > Consistently high production quality

### Correct connector coding

IDC connectors usually have to be marked with a certain mechanical code. This code is determined by how they are used. Just one incorrectly coded connector is all it takes for the entire harness to be rejected. - That is why the IDC 9600 MS runs an optical check on each code. Defective connectors are removed and replaced prior to further processing.

### Detection of defective contact

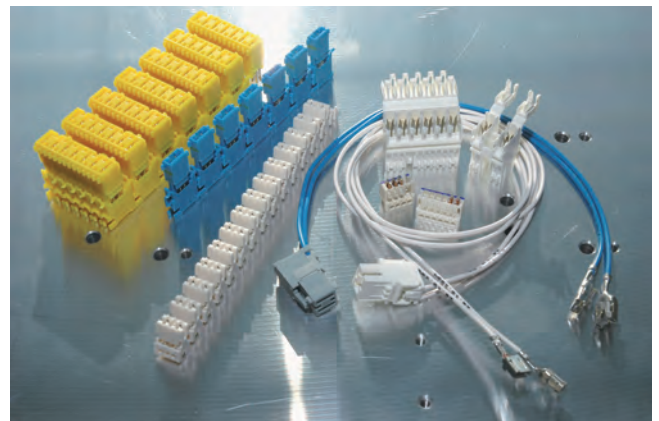
With open connector systems, the insert position of the wire in the contact spring is optically measured for each contact and compared with a tolerance window. As an option, the distance between the contact spring tips can also be measured. The camera detects damaged or widened contact springs.

In closed connector systems, the insertion process is monitored by a piezo sensor. When the wire tip hits the back wall of the connector, the force level increases. This increase can be evaluated in relation to the position, thus guaranteeing the correct insertion depth.

The calculated quality parameters are filed along with the corresponding wires and connectors. Even when a new harness is recorded, no adaptations are required. The quality standards are therefore always complied with.

### Final electrical test

Finally, each harness has to pass an electrical continuity test and a high voltage test before it can be placed in the good cable deposit unit. As a result, connection and insulation faults are always detected. Defective harnesses are marked and removed.



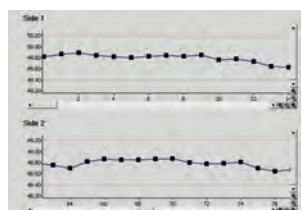
Open and closed IDC connector systems



Camera shot: insert position



Camera shot: contact spring on indirect connector



Online display: wire insertion position