

komax

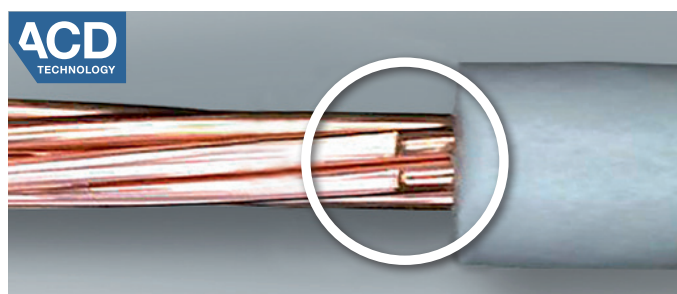
ACD INCISION MONITORING FOR SIGMA

The high-precision, fully automatic incision monitoring system detects even the slightest contact between blade and conductor strands when processing copper and aluminum cables. It is available for the Sigma fully automatic twisting machines.

Function

Miniaturization and new technologies are constantly increasing the quality requirements in wire processing. To comply with a current automotive crimping standard for solderless electrical connections, Komax has developed the fully automatic ACD cutting monitoring system. This detects even the slightest contact between the blade and the conductor strands during the incision process, setup and production. The ACD is based on a capacitive measuring principle, is integrated in the blade holder and can be operated with standard stripping blades.

The desired sensitivity of the incision monitoring can be selected by setting parameters. In this way, the incision process of each individual wire end is monitored and quality deviations can be detected at an early stage. Defective wire ends are detected and sorted out fully automatically.



Example of faulty wire sorted out by ACD.

Specifications

- Cross-section range from 0.13 mm²* to 2.5 mm²
- For copper and aluminum cables
- Can be retrofitted for Sigma 688 / 688 ST (not with Q1140)
- As of TopWin version 21.5

*Sigma cross-section range from 0.22 mm², optional with feasibility test from 0.13 mm². Komax recommends carrying out a feasibility test.

Your profit

- Meet increasing demands of the automotive industry for processing copper and aluminum cables
- Highly sensitive monitoring of the incision process
- Monitors all 4 cable ends and displays results in TopWin
- Sensitivity can be individually adjusted for optimum results with a wide range of cables
- Automatic sorting out of faulty cables
- Supports the machine operator during set-up and production