AIC (Adaptive Incision Control)

You want to avoid the complexity of correctly programming the cables you use? You frequently work with varying cable types and wish to ensure that your machine is always optimally configured? That is where AIC comes into play.

AIC eliminates the need for manual programming when switching between cable types. It ensures the machine is always configured correctly, reducing operator workload and minimizing training requirements. By continuously adjusting parameters, AIC also enhances production efficiency, maintains consistent quality, and significantly reduces waste caused by incorrect setups. Machines equipped with AIC technology have the following new features:

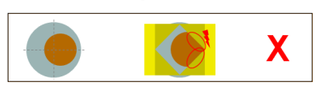
- Self-programming machine with “Teach Mode”.
- Quality and monitoring right from the first incision.*
- Continuous production with minimal scrap and fewer stops.*
- Automatic compensation of wire diameter tolerances.*

* *Small incisions, ranging from one to three hundredths of millimeters are possible.*

Challenges
Out of round conductors

X = not passed

Solution / Result
AIC monitoring = centered conductors



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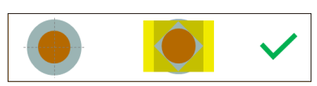


✓ = passed

Benefits

- Once activated, production and stripping quality are consistently high, and waste is significantly reduced.
- Wire intolerances, such as centricity or strand variations, are detected automatically and compensated for.
- Minimal training is required, as the system monitors from the very first incision.

AiC TECHNOLOGY ACD TECHNOLOGY

Adaptive Incision Control
Adaptive Cable Detection

Unique Quality Monitoring. Combine AIC with ACD to get the full quality control.

Wide Application Range (currently applies to the Strip Series B300 only)

- Works for full wire cross section range.*
- Large range of wire insulations processable.*
- Ready to follow miniaturization trends for cables with smaller dimensions.

Processing Ranges

0.03 – 8 mm2, AWG 32 – AWG 8

* *For wire with thin insulation or special insulation the settings for stripping may need to be modified manually.*

ACD (Automatic Conductor Detection)

Damaged strands during stripping can lead to cable failure and malfunctions, making reliable monitoring essential. That is when turning to the patented ACD (Automatic Conductor Detector) incising monitoring system becomes your first choice.

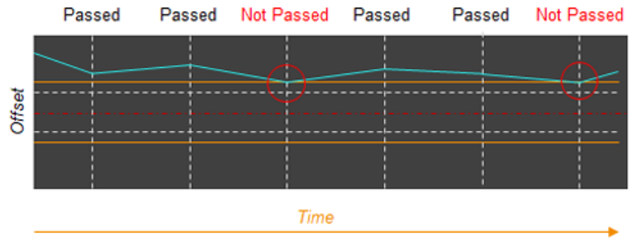
ACD detects and signals even the slightest contact of the inner conductor caused by a blade. A very important monitoring function, especially with challenging cables where blades cut close to the conductor. The function can be activated for quality assurance during cutting and/or stripping.

This proven feature, indispensable for quality optimization, meets the highest standards in the automotive, medical, and aviation industries, and is now being introduced to the Schleungier Strip Series. You benefit from:

- Proven technology now available on the Schleuniger Strip Series.
- Constant monitoring to meet highest quality, detect every single nick or scratch.
- Updated interference immunity.
- Full control for incision depth (mm/inch) and three pull-off zones (%).

Full Quality Control by Combining AIC with ACD

- The AIC combined with ACD monitoring technology is unique in the market.
- While adaptive monitoring regulation can cause minor nick. ACD prevents this from occurring.
- In addition to the default settings (no nicks), user-defined settings for the maximum permissible cutting depth can be specified if required.
- When the ACD is switched on, the machine visually alarms (blinking light, display shows error) if a conductor is touched or the maximum cutting depth is detected.



Intelligent Quality Control for High-Precision Applications.

Schleuniger
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