



# ASSEMBLY LINES FOR CABLE AND CONNECTOR PRODUCTION



- Customized solutions for high cycle rates
- Cable lengths from 120 mm to X.000mm
- WPC transport system
- Single-sided cable routing
- Optimal accessibility
- Can be combined with assembly tasks

Electrical engineering and electronics are everywhere. Electromobility, energy efficiency and the increasing demand for virtual networking present the electrical and electronics industry with new challenges.



# OUR PORTFOLIO FOR CABLE PROCESSING

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There are not many sectors and industries that can do without assembled cables and connectors in their production. They are particularly in demand in the electrical and power engineering fields as well as in machine and control cabinet construction. Our solutions meet these needs.

Modern PIA cable processing lines are characterized by high efficiency and flexibility, and enable fast and precise processing of different cable types and sizes. Such a line optimizes the production process and reduces overall costs.

Our machines for cable processing precisely cut to length and strip single or multi-core and shielded cables. They cover a wide range of wire diameters and cross-sections. As well as sheathed cables, crimp, slice, solder and weld connections.

PIA automation solutions allow high productivity in many different application areas. At the same time, the systems are easy to program and operate. Many functions can be pre-defined to simplify daily set-up and enable versatile production. The PIA design principle also ensures seamless integration into your manufacturing processes.



## SPECIFIC PROCESSES

- Feeding cable(s)
- Stripping
- Aligning cable(s)
- Stripping
- Installing seals
- Zero cut
- Crimping
- Compacting
- Resistance welding
- Soldering (wire soldering, laser soldering)
- Connector assembly
- Switch assembly
- Camera test stations for monitoring and measurement
- EOL testing
- Marking, labeling, laser marking

## EXPERIENCE COUNTS

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Choosing the right wire processing line depends on the specific requirements of each industry. It is important to choose a line that meets individual needs while providing high quality and reliability.

Active consultation and constructive cooperation are a matter of course at PIA. Feel free to contact us directly with your specific task. Each individual project is important to us and helps us to improve our products and thus their customer benefits in the long term.

## ADVANTAGES OF PIA SYSTEMS

- Applicable in numerous industries (consumer goods, industrial goods, photovoltaics, automotive and emobility...)
- Customized special solutions for high cycle rates 30 parts/min
- Cable lengths from 120 mm
- WPC transport system
- Single-sided cable routing
- Optimal accessibility
- Can be combined with assembly tasks



# OUR PORTFOLIO FOR CONNECTOR ASSEMBLY

Our state-of-the-art connector assembly systems are specially designed to make your production more efficient, more precise and faster.

With our connector assembly lines, you can count on reliable, high-quality production. Thanks to our extensive experience of almost 50 years, we are able to offer customized solutions for your individual requirements.

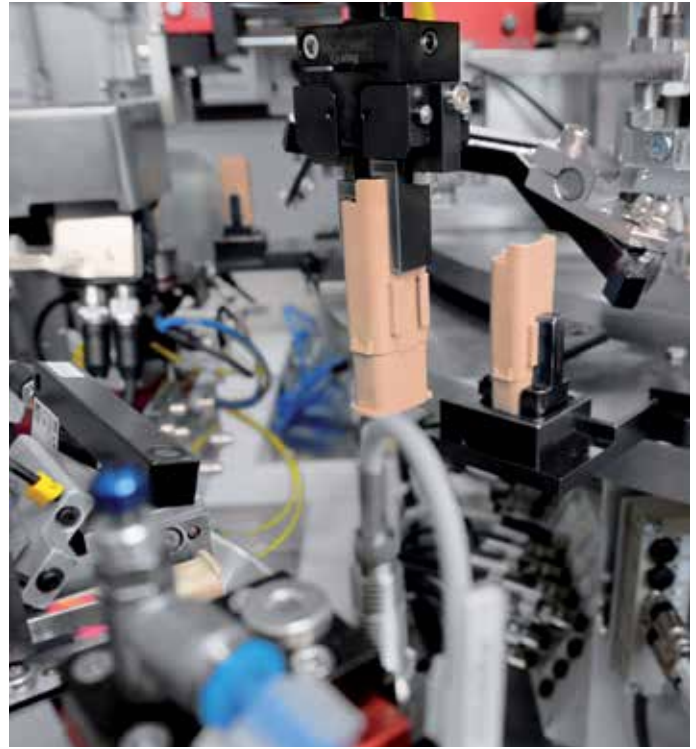
Thanks to our flexible configuration options, our connector assembly systems adapt perfectly to your needs. Whether it is the assembly of small connectors in large quantities or the assembly of complex connectors, we have the right solution for you.

## EASY OPERATION AND MAINTENANCE

By integrating intuitive user interfaces and intelligent diagnostic functions, we minimize downtime and maximize productivity. With PIA Automation, you always have reliable support at your side.

## ADVANTAGES OF PIA SYSTEMS

- High cycle performance max 60 parts /min
- High repeatability
- Low maintenance (EGM)
- Low energy consumption (EGM)
- Standardized stations
- Own blister packaging



## SPECIFIC PROCESSES

- Feed and assemble housing components
- Feed and assemble locking parts in pre-latching or latching position
- Feed and assemble sealing parts
- Feed and assemble contact elements (bulk material)
- Feeding contact elements on a pre-punched tape, cutting free and assembling (Follow-on tool for bending contacts also possible)
- Presence checks of individual parts
- Position control of interlocks (tactile or with vision system)
- Control of twisted seals via vision system
- Pin and wobble circle checks for contacts
- Position control for contacts (tactile or with vision system)
- Laser marking (plain text / DMC)
- Inkjet marking (plain text / DMC)
- Parts output in bulk
- Packing in blister belt or tray



## Contact

PIA Cable and Connector team

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WEBSITE

We make high-quality products available to everyone.  
Sustainable and worldwide - that's exactly what we stand for at PIA.



creating efficiency.  
in global mobility assembly systems.

Austria. Canada. China. Croatia. Germany.  
Mexico. USA.



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