

INNOVATION

As the market leader in automated wire processing, the Komax Group possesses unparalleled innovative strength in the industry. Continuously bringing innovations to the market and thus helping its customers gain genuine competitive advantages is of paramount strategic importance.

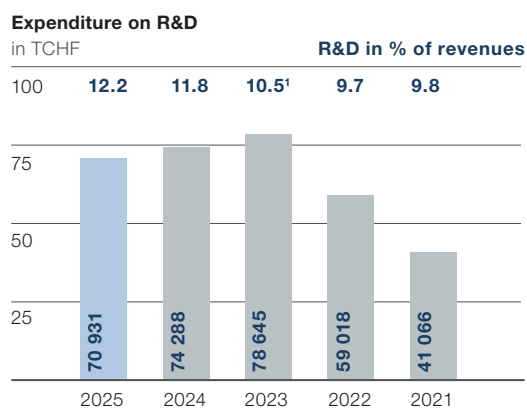
There is huge growth potential for the Komax Group in the markets for automated wire processing. The long-term megatrends of automation, electrification, and mobility (► pages 20–25) offer numerous opportunities. With further automation of processes along the value chain and expanded digital services, the efficiency of the existing machinery base already installed in customers' factories can be significantly increased. To exploit these opportunities for additional unique selling propositions and offer customers innovative solutions, the Komax Group has for many years been investing above-average sums in new developments, the optimization of its existing product portfolio, and the expansion of its service offering. Even in challenging years – such as 2025 – this has remained a firm focus of the company. It has spent a total of CHF 323.9 million in this area since 2021, thereby cementing its leading position in the automation of wire

processing. In 2025, the Komax Group invested a total of CHF 70.9 million or 12.2% (2024: CHF 74.3 million or 11.8%) of revenues in research and development. This figure comprises expenditure on internal development services (CHF 63.2 million) and development services of third parties (CHF 7.7 million).

Unparalleled innovative strength

As at 31 December 2025, the Komax Group had a workforce of 633 employees (2024: 724 employees) working in research and development, as well as in engineering. The employees in engineering make an important contribution through the development of customer-specific applications. The personnel costs of these engineering employees are not included in research and development expenses where these individuals have worked directly on customer projects. Despite increasing relocation to China (► page 32), a large part of R&D and engineering employees (248 employees) is still based in Switzerland. The lion's share of R&D expenditure is therefore incurred in this country. In addition, the Komax Group has development units in China, Germany, France, Japan, Singapore, Hungary, and the USA. The Komax Group continues to seek to invest 8–9% of its revenues in research and development. In the 2025 reporting year, the lower revenue level led to a higher R&D ratio of 12.2%. The bundling of expertise and the optimization of the product portfolio were significantly advanced in the reporting year. This led to improved efficiency and lower

633
employees in
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engineering



¹ Excluding one-time effect on revenues.

costs at the same time. Numerous innovations were implemented in 2025 with concentrated innovative strength. This included the successful localization of a fully automatic twisting machine for the Chinese market, the introduction of a wireless inline testing system, and the expansion of the Schleuniger Coaxcenter 6000 to become the world's most flexible crimping machine. Hosver also launched a new machine produced in China for processing data wires. Then, the "Innovation Days" took place in Dierikon, where developers from a wide range of areas came together to exchange ideas in order to further improve efficiency in research and development. One focus was the topic of artificial intelligence.

Awards for innovation achievements

Due to its performance, the Komax Group was once again one of the most innovative companies in Switzerland in 2025. Together with market and opinion research company Statista, the Swiss business magazines Bilanz and PME ranked the Komax Group fourth in the list of the 75 most innovative companies in Switzerland. The company also received an award at the important productronica trade fair in Munich, Germany, for its innovation of adaptive incision control (▶ page 63).

SMART FACTORY by KOMAX

The trend toward digitalization is in full swing, particularly in the automotive industry. More digitalization also means more data, more electrification, and more wiring. This is good for the business of the Komax Group, but presents its customers with growing challenges. A wide range of components and products are becoming increasingly intelligent and, at the same time, more complex on the electronic side. The complexity of wire processing applications in the various market segments is constantly increasing. Customers of the Komax Group must deliver consistently high quality and keep costs as low as possible, while facing increasing personnel expenses. The Komax Group is helping them meet these growing challenges. A key factor here is the SMART FACTORY by KOMAX – a comprehensive package of digital and physical solutions with which wire assembly can be significantly optimized. It is characterized by five components, each offering customers different competitive advantages (▶ pages 54–55).

As a driver of innovation and market leader in automated wire processing, the Komax Group has been implementing the solutions of the SMART FACTORY by KOMAX on an ongoing basis for several years – turning this vision into reality. This helps to open up optimization potential and minimize risks.

“With the SMART FACTORY by KOMAX, we are taking wire processing productivity and flexibility to a whole new level. For example, our IQC technology, an intelligent, fully automatic tool change system for the Alpha series crimp-to-crimp machines, completes tool changes in less than a minute instead of the previous 15 minutes, autonomously performing all important settings.”

Matijas Meyer, CEO

SMART FACTORY BY KOMAX

NO OPERATOR INFLUENCE

The Komax Group develops fully automated, networked solutions to minimize operator influence. This facilitates highest precision and process quality together with lower costs and fewer rejects. Furthermore, both productivity and transparency are improved.

Q1250 – scalable quality testing modules for the testing of stripping, crimp and seal, and – depending on the selected configuration – further quality features.

IQC Technology – fully automatic changeover system delivering a massive increase in productivity for Alpha-series machines (www.iqc-technology.com).

Sigma 438 twisting machine – sequential production of various wire harness variants.

Adaptive Incision Control (AIC) – production of the highest quality without manual configuration of production parameters, including automatic compensation of wire tolerances and significant reduction of rejects.

SELF-OPTIMIZING FACTORY

The self-optimizing factory improves productivity while also reducing quality costs. To achieve this, the Komax Group provides cloud-based algorithms based on production and behavioral data. Customers significantly improve machine utilization while at the same time reducing their quality costs.

WIRE Insights – increasing productivity on the basis of comprehensive real-time information.

Possibility of integrating variable machine interfaces, such as OPC-UA, MIKO, and WPCS, into customers' existing IT infrastructures.

MES solutions 4WIRE CAO from DiIT and WIRE Flow – improvement of overall equipment effectiveness (OEE).



With its five components, the SMART FACTORY by KOMAX offers solutions for the wire processing of the future. The aim is to make customer production processes simpler, thereby elevating the quality, productivity, and flexibility of wire processing to a new level. The Komax Group is further developing all five components on an ongoing basis.

ON-DEMAND SERVICE

The Komax Group offers solutions and services on demand. These include performance- or usage-based payment for systems, financing and leasing services, and procurement of production capacities to handle production peaks, for example. This enables customers to reduce their capital requirement and increase flexibility, stability, and responsiveness.

CARE – service agreements for individual machines or entire production sites, including technical support, training, and financing offers.

WIRE Mind from WUSTEC – digital platform for control cabinet and machine manufacturers for the online ordering of any amount of prefabricated wire sets.

CARE Services – selection of various service products such as warranties, repairs, installations, updates, and support in product optimizations with WIRE Insights.

WIRE Flow – user-friendly wire processing software with a subscription model for cut and strip machines.

SELF-SERVICE BOUTIQUE

The Komax Group offers access to a digital self-service boutique. Customers benefit from services such as product and spare parts ordering, web-based training, software downloads and upgrades, license management, and analysis and optimization tools. This means they can access the services of the Komax Group at any time, from anywhere, and get a customized picture of their business.

Redesigned website (www.komaxgroup.com) as the basis for future online services.

myKomax online service portal – for direct customer contact as well as subscriptions to services.

REAL-TIME QUALITY AUDITS

The Komax Group enables real-time quality audits. Quality data is collected using IoT technology, stored in the cloud, and processed in a user-friendly manner. This means that customers can produce quality reports immediately and easily, and thereby trace processes and demonstrate compliance with quality requirements at any time.

4WIRE CAO and WIRE Insights – software solutions that gather, save, and analyze comprehensive production data, including full traceability.



More information on the SMART FACTORY by KOMAX can be found in this video: [komaxgroup.com/smartfactory](https://www.komaxgroup.com/smartfactory)

SOLUTIONS TO INCREASE PRODUCTIVITY AND FLEXIBILITY IN DIFFERENT VALUE CHAINS

Batch production with IQC Technology

With crimping machines, changing crimp applicator, terminal, and contacts for a new order is time-consuming. The revolutionary IQC technology massively simplifies and accelerates set-up and changeover. The error rate drops drastically, while productivity increases by up to 50%.

Sequence production of different wire harness variants

Using a one-piece flow approach, different wire harness variants can be produced sequentially on the same machine without any changeover, which facilitates lower inventories, more rapid delivery times, and simple design alterations, with all the key steps in wire harness production optimized.

Data wire processing solutions

Data wires are playing an increasingly important role in vehicles, given the focus on driving safety. This being the case, ensuring high quality in wire processing is also extremely important. Thanks to its innovative solutions, the Komax Group offers the quality that is needed at the first go – with a minimized level of material waste.

Scalable platforms for high-voltage applications

The Komax Group develops scalable platforms to meet the rising demand for high-voltage applications in e-mobility and the non-automotive area. These cover all key process steps from cutting to testing, and can service varying production volumes.

High mix – low volume: variable solutions for small batches

The Komax Group's broad product portfolio offers cost-efficient automation solutions for high-quality production of multiple-variant applications in small batches. This is part and parcel of the day-to-day work of small and mid-sized wire harness manufacturers, in particular.

Digital solutions for control cabinet construction

Digital, fully automated workflow systems cut production times by up to 80% for customers in the Industrial segment. This results in a substantial reduction in costs and an increase in efficiency. Just as valuable is WUSTEC's WIRE Mind service for the external production of wire sets.

Production planning – software solutions for all customer needs that steer processes in all areas of production, from cutting to testing.

Service – comprehensive service offerings such as CARE and WIRE Insights help to create added value across the entire life cycle of the machines.



Greater productivity and flexibility for customers

When developing new products and services, the Komax Group focuses on the optimization of various value chains. With its solutions, it can increase the degree of automation at its customers' factories, allowing them to increase productivity and flexibility while at the same time maintaining high quality right from the start. For example, customers with the cloud-based solution WIRE Insights receive comprehensive production data for their machines in real time and can therefore initiate adjustments immediately. Among other things, this massively reduces scrap rates in production.

WIRE Mind – wiring control cabinets up to 80% faster

With its WIRE Mind software, the Komax Group offers a "virtual machine" for automated wire pre-fabrication for control cabinet construction under its WUSTEC brand. This allows for wire sets to be ordered online in any quantity and then manufactured and delivered within the shortest timeframes. This is particularly attractive to customers who don't want to set up their own production process for certain projects. With the pre-fabricated and printed sequence and round bundles, they can wire their control cabinets up to 80% faster, without errors and without wire strand waste. To date, the offering has mainly



been available in Germany and will be expanded to the US market in the first half of 2026. Since 2025, the WIRE Mind software can also be used without the WUSTEC service. This means that customers with their own production facilities can use WIRE Mind to optimize their production planning. More than a dozen are already doing so. The production data is loaded from any ECAD system into the WIRE Mind platform, optimized with just a few clicks, and transferred to their own machine. The Komax Group is thereby offering its customers maximum flexibility and a rapid and efficient service, enabling them to accelerate production. Either they use the “virtual machine” and thus order prefabricated wire sets from WUSTEC online, and/or they work with their own machines in their factory and use WIRE Mind for production optimization.

Actively shaping the future of automotive production

As a technology leader in automated wire processing, the Komax Group strives to play an active role in shaping key developments in its three market segments. To this end, it maintains close partnerships with leading industry players in various organizations and initiatives. The Komax Group's focus is on automation in the production of wiring systems. The range of functions offered by modern vehicles is continuously expanding thanks to new driver assistance systems, comfort functions, and infotainment solutions. This leads to greater weight, higher costs, and increasing complexity in the wire harness for vehicle electrical systems. With over 80% manual labor, wire harness production has so far only been economical in low-wage countries, resulting in long transport routes. Furthermore, the increase in supply chain uncertainty that has occurred in recent years harbors not inconsiderable risks. These challenges can be overcome with greater automation.

To achieve this, however, it is crucial to bring together expertise from different disciplines and partnerships. The Komax Group is currently involved in several interlinked projects in the Automotive segment aimed at shaping the automotive production of the future.

Next2OEM project – the digitalized, automated value chain

The Next2OEM project, which is supported by the German Federal Ministry for Economic Affairs and Energy (www.bundeswirtschaftsministerium.de, Konjunkturpaket 35c) on the basis of a resolution passed by the Federal Parliament, is developing a digitalized and automated value chain from wire harness development to wire harness production and assembly into the vehicle bodywork. Part of this initiative is to encourage nearshoring, i.e., the repatriation of wire harness production back to Germany. However, the high wage costs associated with nearshoring can only be reduced to an economically feasible level if the degree of automation is significantly increased.

As part of the Next2OEM project, the Komax Group collaborated with nine consortium partners who together cover the entire value chain of wire harness production and assembly: Audi, Artiminds, Bär, FAPS, Kostal, Kromberg & Schubert, Semantic PDM, Stefani, and TE Connectivity. Next2OEM shows how costs, quality, and sustainability in the wire harness business can be mastered through greater automation. In 2024, the various partners developed machine parts for this purpose. The Komax Group contributed the Sigma 438 sequence twister, the Omega 840 automatic insertion machine, its robot-supported taping technology, and optical inline testing systems. 2025 saw the prototype implementation of a complete system for the production and assembly of a center console wire harness at the Audi AG plant in Ingolstadt, Germany. In January 2026, the practical applicability of this complete system was validated, thus laying the foundation for possible further development for series production.

The Komax Group expects that the Next2OEM project will lay the foundations for the industrialization of solutions for the highly automated production of wire harnesses. It wants to use the increasing demand for automation solutions to tap into additional growth potential.

NEXT2OEM – A TALK WITH AUDI

Under the leadership of consortium leader AUDI AG, the Komax Group has worked with other partners to develop a digitalized and highly automated value chain for wire harnesses. Using the example of a center console, a test setup was successfully implemented in Ingolstadt, Germany, in 2025.

The Next2OEM project was supervised by Dr. Ingo Busche, Head of Development Wiring System Concept and Robust Design, at AUDI AG. The Komax Group conducted a fascinating interview with him on the future of wire harness manufacturing from the perspective of a car manufacturer. The full interview is available on the Komax Group website (► Komax Stories). Here is an excerpt:

What are the biggest challenges in the production of wiring systems?

We are observing a continuous increase in the functionality and performance of our wire harnesses, which is leading to more weight, higher complexity, and increased space requirements in the vehicle. Our aim is to reduce the number of wire harness variants.

What was Audi's motivation for this project and what advantages does it promise?

We see automation as part of our competitiveness. It is an important element in securing Germany's position as a business location. There is great potential for improvement in OEM production with regard to automation of wire harnesses, which currently stands at less than 10 percent. We are convinced that automation will only work if it is scaled across the entire industry, not just implemented as an individual



Dr. Ingo Busche, Head of Development Wiring System Concept and Robust Design, AUDI AG (photo: AUDI AG).

solution for AUDI AG or the Volkswagen Group. We were convinced from the outset that the aim of the project had to be the maximum degree of automation. And this is only possible if the entire value chain is integrated. We wanted to make real progress and use the research project to explore together how we must develop in order to integrate automation in the future.

“We see automation as part of our competitiveness and are convinced that automation will only work if it is scaled across the entire industry, not just implemented as an individual solution for AUDI AG or the Volkswagen Group.”

Dr. Ingo Busche, Head of Development Wiring System Concept and Robust Design, AUDI AG

What conclusions can you draw from the project?

It has gone very well. All our partners have pulled together and have been highly motivated. This naturally makes life easier as the consortium leader. By working on the entire value chain, we have learned from each other. We can see very clearly that automated pre-assembly by the OEM will only work with automated wire harness production. This realization is important because it means that we have our purchasing to be organized accordingly and we must be supplied automatically. We have recognized that we in Europe are in a strong position to achieve results that are unique in the world thanks to our good networking in the value chain.

How important was the Komax Group's expertise for the success of the project?

It has been an extremely important contribution, as Komax has many interfaces with its partners. This includes everything from the digital data, through the wire harness components, to the wire harness manufacturer. Even more important, however, is the perspective that Komax offers. In our view, the company has recognized how a very high level of production automation can be achieved. If we want to achieve our goals, we will have to have a degree of automation of over 90 percent in production. This is a very high level, even in comparison with the competition from Asia. Overall, it has been the employees and the expertise of Komax, its valuable input and its quality that have particularly impressed me.



Prototype implementation of a complete system for manufacturing and assembling a center console wiring harness at the AUDI AG plant in Ingolstadt, Germany (photo: AUDI AG).



Administration shell for the wire harness – development of a digital twin for the value chain

Another project supported by the German Federal Ministry for Economic Affairs and Energy (www.bundeswirtschaftsministerium.de) on the basis of a resolution of the German Federal Parliament is the “asset administration shell” for wire harnesses (VWS4LS). Since 2021, the Komax Group has been working on this project with partners Coroplast, Dräxlmaier, Festo, Kostal, Kromberg & Schubert, Mercedes-Benz, Siemens, and Wezag. The aim was to use the OPC UA Companion Specification to create an industry standard for communication between production planning systems and wire processing machines. This is achieved by standardizing an interface that is tailored to the specific needs of the wire processing industry and that uniformly identifies machine statuses, production orders, process parameters, and materials, among other things.

In March 2025, the first version of the OPC 40570 – Specification for Wire Harness Manufacturing was published by the German Engineering Federation (VDMA) and the OPC Foundation. This specification is used in projects such as Next2OEM, as described above. The Komax Group is also working on a software library that will make OPC 40570 available throughout the company. This standardizes the information content of the interface, which makes it much easier for customers to handle data between different Komax Group machines and systems.

possible component diversity. Several compact wire harnesses with shorter wires are less complex, lighter, more cost-efficient to produce, and above all easier to manufacture in an automated way than one large wire bundle.

In ARENA2036 (www.arena2036.de), interdisciplinary teams are working on the automotive production of the future. In 2024, as part of the standardization initiative for wire harnesses (SILS), the Komax Group – together with renowned automotive manufacturers and their suppliers – developed 60 design guidelines in the form of DIN 72036 to make wire harnesses easier to manufacture automatically. The corresponding recommendations help automotive manufacturers develop wire harnesses that can be put together in a highly automated and commercially feasible way, while at the same time guaranteeing process security.

During the reporting year, the SILS project was continued and expanded to include a focus on high-voltage applications and the processing of data wires. These new guidelines for automation-compatible wire harness design have been reviewed by a standards committee and published as version 2 of DIN 72036. Among other things, the new version ensures better compatibility with OPC 40570. Thanks to the close cooperation of experts from various Group companies, the Komax Group played a leading role in both the SILS and the standards committee.

Through its US subsidiary Komax Corporation and project partners of ARENA2036, the Komax Group is already in talks with the United States Council of Automotive Research (www.uscar.org) to promote the standardization of wire harness production in North America.

In the VWS4LS project, the OPC UA standard was defined, whereas in the Wire Harness Standardization Initiative the degree of detail in the shared approach of OEMs and suppliers was increased in line with the corresponding design guidelines. These guidelines are being implemented and tested in practice in the Next2OEM nearshoring project. Accordingly, these three projects are very much interlinked, and are taking the automotive value chain in the automation of wire processing to a whole new level thanks to standardization.



Standardization initiative for wire harnesses – automation in production

The wire harness is currently one of the most laborious, complex, and expensive individual components in any vehicle, and is therefore of crucial importance for the entire automotive industry. The shift to electromobility and autonomous driving is changing the requirements for wire harness design and manufacturing. For car manufacturers this means significant investment. In turn, their suppliers must develop solutions for new customer needs. In keeping with the zonal approaches that apply in wire harness architecture, the wire harnesses of the future need to be designed in a modular way, with the smallest

A RADICALLY SIMPLIFIED WIRING HARNESS FOR THE DIGITAL NERVOUS SYSTEM OF BMW'S "NEUE KLASSE"

The example of BMW shows the enormous progress that can be achieved: The zonal wiring harness architecture uses 600 meters less cable, making it 30 percent lighter than the previous generation. It divides the harness into four zones: front end, center, rear, and roof. Within these zones, high-speed data highways connect the four superbrains with the smaller zonal controllers. These are responsible for controlling and bundling the electronic data flow in and out of the zones, so each zone has its own cables, which are shorter, thinner, and lighter (➔ BMW Group website: Four "Superbrains" for the Neue Klasse by BMW).

Paradigm shift in electrical system production through highly automated manufacturing

The wiring systems industry is under massive cost pressure. Rising raw material prices, wage inflation, surcharges for express deliveries, but also hidden quality costs and inefficiency in production are becoming increasingly noticeable. Today's final assembly is labor-intensive and error-prone. With increasing product complexity and advancing miniaturization, manual work is reaching its limits. There is an urgent need for action to rethink production processes. A high degree of automation along the entire value chain can improve its resilience and achieve significant efficiency gains.

The Komax Group's approach is to use the latest technologies in pre-assembly to produce autarkic wire harnesses and modules from the main wire harness in a highly automated process. This production system consists of a small number of standardized production cells that can be flexibly combined to create customer-specific production concepts. The workpiece passes through all production steps in a single pass. This allows the existing production capacity to be used across different vehicle projects, which in turn maximizes the utilization of the individual machines and improves the cost-effectiveness of wire processing. It allows customers to adapt their production concepts much more efficiently to fluctuations in demand, for example, or use systems in several projects.

Cooperation in the further development of international standards in aerospace

For several years, the Komax Group has been working with various organizations and leading

manufacturers such as Airbus and Boeing on the further development of industry standards in the aerospace industry. For example, Komax France is involved in projects with the Comité Européen de Normalisation (CEN), which develops European standards, as well as with the Aerospace and Defence Industries Association of Europe (ASD). ASD is an organization that develops and maintains technical standards for these industries, such as the AS9100 quality management standard for the aerospace industry. The core of the Komax Group's efforts is the standardization of processes in the areas of laser marking and laser crimping. Uniform standards facilitate the certification of automated wire processing for the aerospace industry and thus accelerate automation. In addition, all wires in this industry have to be laser marked.



Worker at a wire set routing board in a customer's factory. Due to the highly individual nature of the product, the assembly of wire harnesses is still manual work today, but modern automation technologies could change this in the near future.

Digitalization with Industry 4.0 and the Industrial Ethernet of Things

The Komax Group is a member of the Open Industry 4.0 Alliance, the Single Pair Ethernet System Alliance, and the SPE Industrial Partner Network, in which partners from various industries drive digitalization forward. The Open Industry 4.0 Alliance focuses specifically on a framework for communication between machines. Thanks to this initiative, digital interfaces and remote monitoring can be incorporated into the development of new Komax Group solutions, for example, which is particularly important for the SMART FACTORY by KOMAX. Single Pair Ethernet (SPE) is the infrastructure basis that facilitates the Industrial Internet of Things and Industry 4.0. The aim of this initiative is to support SPE technology and thereby permit creation of a common market standard.

Smart Cabinet Building Initiative – integrated solutions for control cabinet construction

In the Industrial & Infrastructure market segment and the Railway subsegment of the Aerospace & Railway market segment, the Komax Group is active in control cabinet construction, among other things. There is considerable potential for automation here due to the increasing demand for electrical infrastructure, for example in data centers for AI, but also as a result of the increasing level of equipment in rolling stock. Together with four other technology companies – Armbruster Engineering, nVent Hoffman, Weidmüller, and Zuken – Komax is looking to increase automation with the Smart Cabinet Building Initiative (www.smart-cabinet-building.com) (▶ see video). The aim is to use the networking of technology and expertise across all process steps to deliver comprehensive solutions for control cabinet construction. This will enable working stages that have so far taken place sequentially to be executed in parallel, thereby saving time and costs. This covers the entire value chain in control cabinet construction – from the digital twin to the fully tested final product – for both large and small quantities. The Komax Group is contributing automated wire assembly to the project using

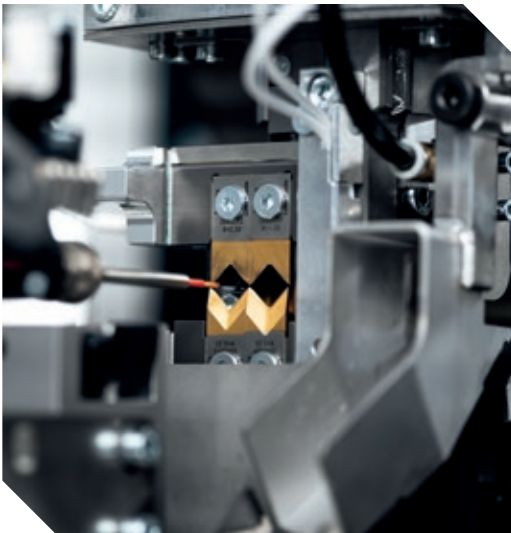
its Zeta machines and adaptronic's testing solutions. By using the integrated solutions of all partners, the time previously required for the wiring process can be reduced by up to 80%.

The Komax Group will further increase the degree of automation and therefore efficiency in control cabinet construction so that customers can remain productive despite shortages of specialist labor.

EXAMPLES OF CURRENT INNOVATIONS

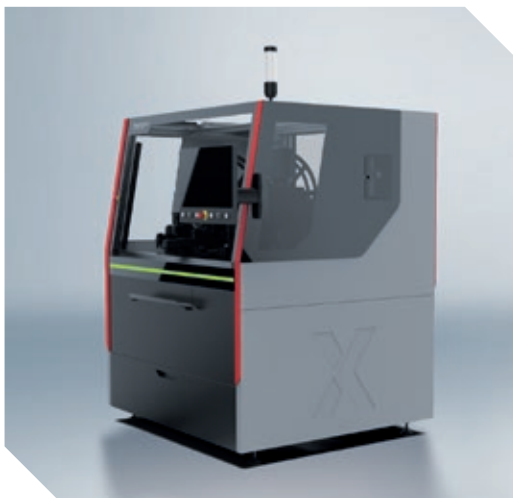
Thanks to its targeted investment in research & development, the Komax Group succeeds in bringing a variety of new products, product enhancements, and services to market every year. It demonstrated its technological leadership to impressive effect in the 2025 reporting year, with several significant product innovations.

The Komax Group is working intensively on developing intelligent, networked solutions for the further automation of processes, such as wire changeovers, seal changeovers, and batch handling. In addition, the ongoing reduction of operator influence and the shortening of setup times are high on the agenda. In the future, the machines of the Komax Group will adjust multifaceted settings and make corrections in a fully automatic way. The objectives of further automation solutions include even greater quality and enhanced flexibility together with lower costs and emissions.



Adaptive Incision Control – optimum stripping quality and efficiency

The Adaptive Incision Control (AIC) quality monitoring system continuously compares the defined maximum cutting depth with the actual cut on the wire, automatically adjusts the incision diameter, and compensates for wire tolerances. Wire ends that exceed the permissible cut depth are reliably detected and sorted out. The AIC system thus ensures consistent quality, greater process reliability, less scrap, shorter setup and downtimes, and a significant reduction in operator dependency during wire processing. This enables customers to reduce their costs and increase their productivity. AIC is used on fully automatic crimp-to-crimp machines from Komax and semi-automatic strip series machines from Schleuniger, and supports numerous automotive and industrial applications. The Komax Group won the productronica Innovation Award 2025 in the Cables, Coils & Hybrids category for its AIC quality monitoring system.



Lambda 3 – flexible entry-level solution for semi-automatic wire processing

The Lambda 3 is a platform for the semi-automatic processing of data wires, characterized by maximum flexibility and modular expandability with minimum space requirements. It was developed for customers who require small batch sizes and short-term adjustments, and who want to continuously increase their efficiency through automation without making high investments. Thanks to configurable process modules, a wide variety of applications can be covered. The Lambda 3 guarantees the highest quality through comprehensive testing and quality assurance methods as well as simple integration into existing lines and quality management systems. It is also suitable as a backup system, especially for small batches, laboratories, or ramp-up production, where fast changeovers, efficient processes, and quality are crucial.



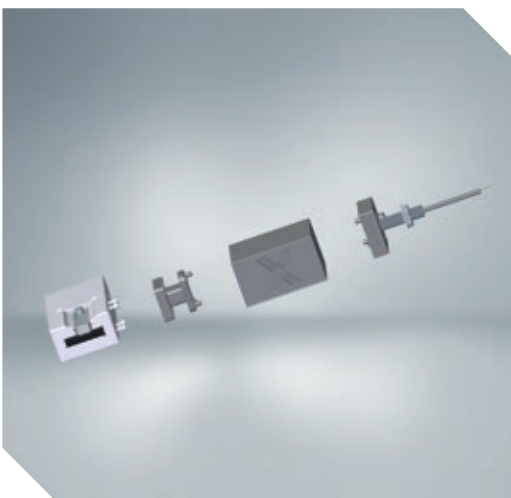
Girar 300 series – automated spot taping for improved efficiency

The Girar 300 series electrical bundling machines address the requirements of wire harness manufacturers who demand high flexibility, short process times, and consistently high quality. They automate the insulating, bundling, fixing, and marking of wires, thus offering an economical alternative to manual work steps. With a cycle time of just 1.4 seconds, Girar 300 machines reduce production time by up to 80% compared to manual methods. An intelligent gripper unit automatically determines wire diameters and ensures consistent tape consumption, consistently high quality, and reproducible results with minimum material consumption. The compact design of the Girar 300 series allows it to be used in almost any production line, both for small batch sizes and in series production.



Space Shuttle – flexible high-mix-low-volume adapter platform

With the Space Shuttle, adaptronic has developed an adapter platform with an independent removable frame concept that is operated directly on the tester and does not require a permanently installed test table. It is the first stand-alone system on the market that covers the full range of high-voltage and low-voltage testing as well as functional testing, and enables the flexible replacement of adapters. This allows customers to react efficiently to new products or product adaptations at any time and minimize changeover costs. Adapters can be stored and reused at any time, eliminating restrictions on repairs or reproduction of cable sets that are no longer in production. The Space Shuttle can be extended according to customer-specific requirements. It ensures maximum quality in the manufacture of wire harnesses and connector components and adapts to different testing requirements.



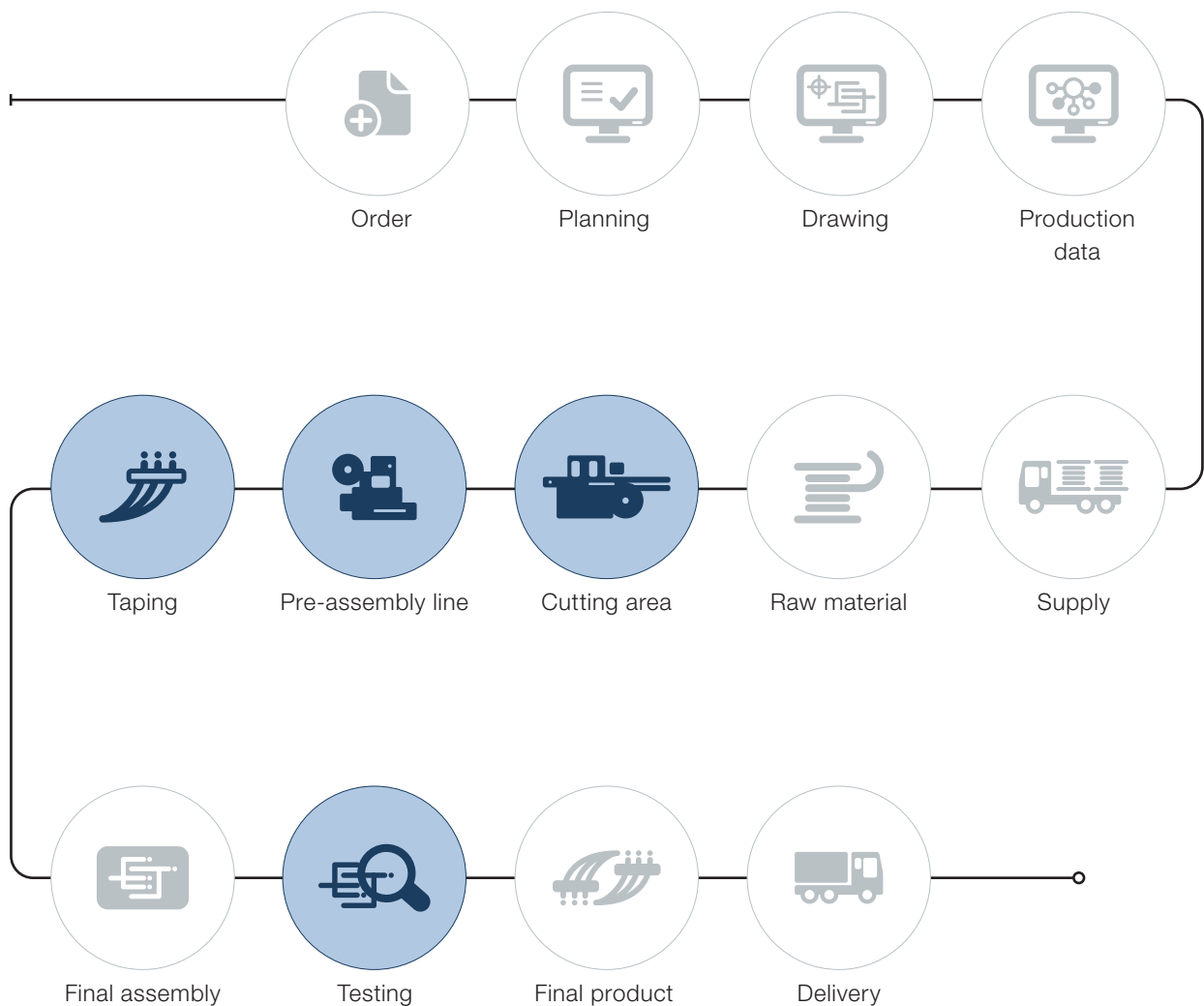
Wireless Test Adapter – inline testing and wireless error detection in real time

The Wireless Test Adapter is an inline test technology that tests wire harnesses fully automatically, continuously, and without manual intervention during assembly. Thanks to its compact design with integrated test technology, it can be integrated directly into production and assembly processes and replaces complex, wired test interfaces with its flexible wireless architecture. The adapter ensures that each wire is properly connected, tested, and validated before it is processed further. It detects errors in real time and enables immediate corrections to be made in the process. This improves traceability and process speed, and allows quality deviations to be rectified before they cause follow-up costs. The modular system offers maximum adaptability and helps customers to achieve precise, scalable, and future-proof wire harness production.

SOLUTIONS ALONG THE VALUE CHAIN

The majority of customers of the Komax Group are wire harness manufacturers whose business consists of processing individual wires – predominantly by hand – into wire harnesses and delivering these to vehicle manufacturers (OEMs). The Komax Group offers its customers a wide range of solutions and systems for the automated and efficient processing of wires and for the taping and testing of wire harnesses. These are used in the cutting room, at the pre-assembly stage, and when taping and testing.

The Komax Group supports its customers along the entire value chain – from planning to production, delivery, service, and repairs during the product lifetime. The company’s manufacturing execution system (MES) solutions automate the planning, controlling, monitoring, and analysis of all resources and production processes. This has the effect of optimally deploying machines, materials, and employees, so that wire harnesses can be completed to deadline, as well as to the requisite quality.



- Komax Group automation solutions
- MES - manufacturing execution system