

POWER

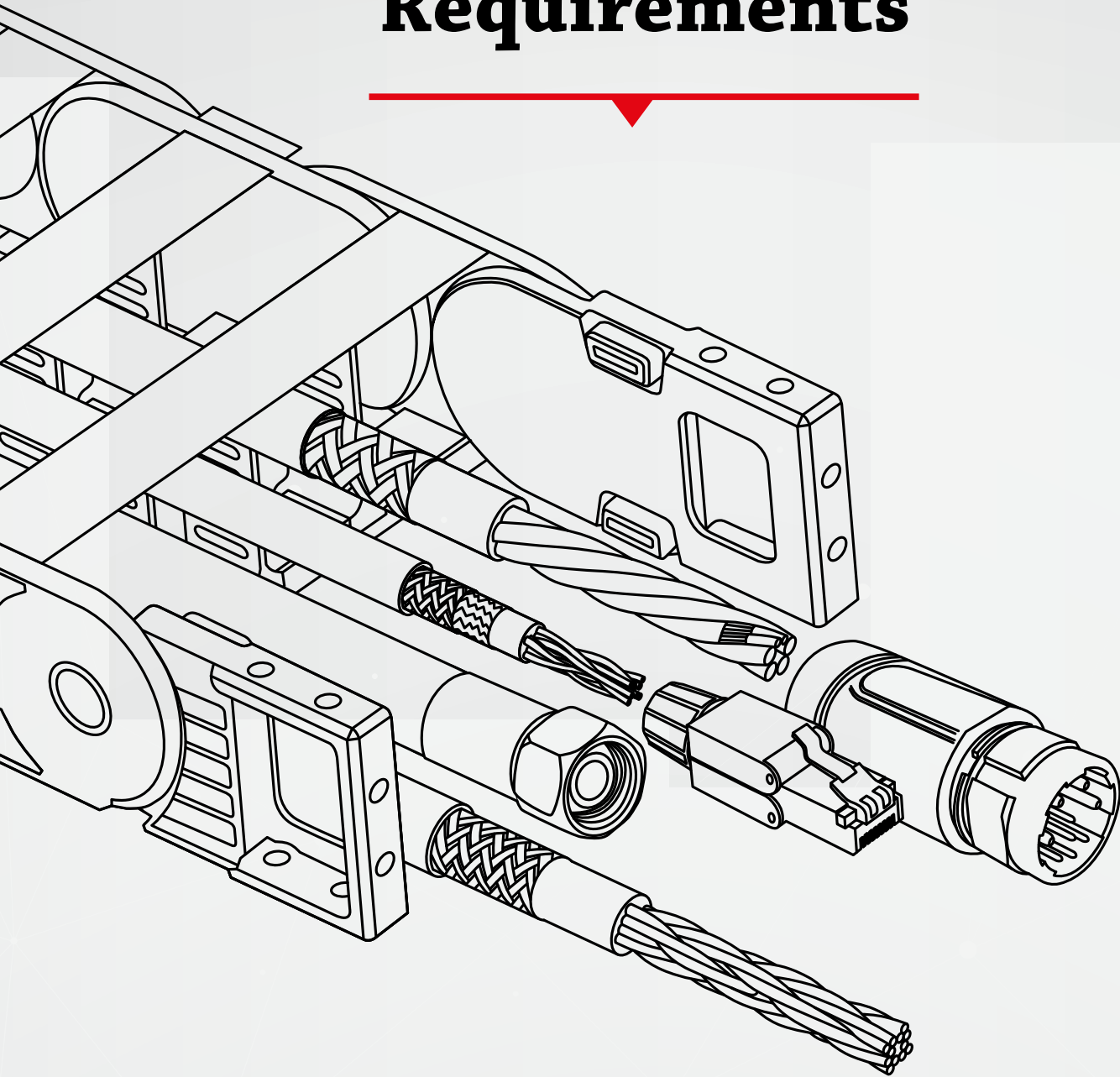
#19

Forward, Backward, Clean!

Custom Cables for Innovative Engine
Ventilation Systems

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As Diverse as Your Requirements



When it comes to transmitting energy and data in demanding industrial applications, cables are often just a part of a larger, more complex system. The creation of reliable solutions that are built to withstand day-to-day operation is only possible when all components are matched perfectly. We at HELU are here to support you. We're your one-stop-shop for electrical connection technology, combining cables, drag chains, and assemblies into tailor-made solutions.





Dear Reader,

"If you intend to renew yourself, do so daily." With this 2,500-year-old saying, the Chinese philosopher Confucius neatly summarises the importance of adaptability and personal development. We, too, have spent the past months working intensively on the subject of change. The result? Our new brand identity under the name HELU and the new claim, 'Always stay electrified.'

The reason behind this is simple. The wants and needs of our customers are also constantly changing and evolving. In place of individual products, there is a growing demand for solutions that address complex requirements. Creating these solutions has been our approach for years. With the HELU brand, we're bringing this to the forefront. You can read more about the reasons behind our new direction here in this issue of POWER or on our website.

In this issue of our magazine, we are presenting some of the solutions with which we've successfully electrified our customers' applications. This includes, for example, the packaging technology pioneer Lantech who equips machines intended for global export with our internationally approved cables (page 26). The specialists in leisure attractions, Wiegand, deliver thrilling action via their alpine roller coasters which rely on robust and weather-resistant connection technology from HELU (page 14).

Stories like these serve to emphasise just how expansive and diverse the world of HELU has become over the years, and it is this diversity that makes it worthwhile to redefine ourselves from time to time.

And with that, I wish you an enjoyable and informative read!

Sincerely yours,
Marc Luksch, Managing Director



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In Brief

New to the Programme

HEAT RESISTANCE AND UL APPROVAL

HELU has launched its new HELUTHERM SINGLE CORE UL STYLE 3512. This new single core has a metric cross-section, its silicone insulation makes it suited for use in temperatures up to 200 °C, and is suited for use in a number of countries thanks to its UL & CSA approvals.

NEW ADDITIONS TO LUMINAIRE PORTFOLIO

The HELULIGHT range of industrial luminaires is growing. The robust HELULIGHT SOLID30, with an IP67 protection rating and safety glass for harsh operating conditions, is suited for use in machine tools, and the HELULIGHT TUBE is designed specifically for the high hygiene requirements of the food and beverage industries.

CATALOGUE FOR DRAG CHAIN CABLES

Under the HELUCHAIN brand, HELU offers a continuously growing portfolio of cables designed for use in drag chains. To provide our customers with a detailed overview of these products, including all relevant technical data and installation instructions, we have created a new, consolidated catalogue. Take a look!



HELUKABEL Changes Brand Name to HELU

The HELUKABEL Group is taking another important step in its strategic development. Effective immediately, our market brand presence is now under the new brand name HELU. The idea behind this change is deliberate as we have developed step by step from an exclusive cable manufacturer into an internationally leading systems supplier for electrical connection technology.

In addition to cables and wires, our portfolio now includes assemblies and drag chains with which we create integrated, custom, and installation-ready solutions for our customers' wide range of applications. This evolution will also have an impact at a mar-

ket level with a new brand name, new logo, and our new claim, 'Always stay electrified.'

"The future of connection technology is no longer defined by the quality of individual components. Instead, it's about combining them into intelligent, installation-ready systems and services," explains Managing Director Marc Luksch. "Over the past few years, we have consistently expanded our competences and our horizons." As a sole supplier, we at HELU produce more than cables—we also produce drag chains and assemblies in our own factories. Unifying our entire range of products under the umbrella of the HELU brand means taking a step towards greater clarity and simplicity for our customers. ◀



35 Years of HELU Sweden

Our oldest international subsidiary, HELU Sweden, is turning 35 this year! What started in 1991 as a three-person team in a former military hangar has continuously grown and developed. Situated in Järfälla, just outside the capital of Stockholm, they supply customers throughout Sweden with quick and reliable deliveries of custom connection solutions. Happy birthday, and here's to many more years of success! ◀

Advancing Artificial Intelligence Together



HELU intensifies its activities revolving around artificial intelligence and is now a member of IPAI. The platform for innovation and collaboration between companies, research facilities, institutions, and administrations aims to drive applied AI forward through collaborative projects and intensive exchanges.

Since its founding in 2021, IPAI has focused on the networking between stakeholders in research, industry, politics, and society working on artificial intelligence. Through the close collaboration of various partners, the development and use of AI technology is expected to become even more practical, user-oriented, and responsible.

Many notable companies from a wide array of industries are already members of IPAI—and now HELU, too. "Our joining of IPAI underlines our goal to actively help shape the future of the industry as networked, responsible, and full of innovative spirit," explains Managing Director Marc Luksch. "For us, artificial intelligence is crucial when it comes to providing our customers with smarter, more efficient solutions and new added value." ◀

Joining the Stars

At the beginning of February, eleven children of our employees were presented with an incredible opportunity. As winners of our Christmas ornament decorating contest, they were given the honour of taking the pitch alongside professional VfB Stuttgart players ahead of their Bundesliga match against SC Freiburg—all in front of a sold-out MHP Arena. An amazing day that they won't soon forget! ▶



New Leadership in Southeast Asia and Norway



Since January 2026, Benoit Fissot has been Regional Director ASEAN and thus responsible for setting HELU's trajectory in Southeast Asia. The region is an important growth market for the company which is why HELU is already represented by subsidiaries in Thailand, Malaysia, Vietnam, Singapore, Indonesia, Cambodia, and Myanmar. In addition to this, Benoit has retained the role of contact person for his existing customers and colleagues in Australia and New Zealand.



In August 2025, Sindre Kvale took on the role of Managing Director of Primatec, the Norwegian subsidiary of HELU. Having studied electrical engineering and mechatronics, he has been with the company since 2018, starting as Technical Director, then moving to Sales Director. He brings valuable expertise and practical experience in the Norwegian oil and gas industries to the table. We wish Benoit Fissot and Sindre Kvale success and joy in their upcoming tasks, and we look forward to working with them! ▶



From Product to Solution

How mechanical and plant engineers achieve the maximum efficiency potential

The 'best' product does not always make for the best solution. In mechanical and plant engineering, the interplay between components, processes, and interfaces is more important than the specifications of individual parts. This is true from procurement to implementation and is precisely where the difference between product and solution-oriented approaches, which HELU has sought after for several years, comes into play.

"One cable with the best specifications, an especially robust connector, a drag chain for demanding movements... all good decisions," outlines Andreas Muckes, Senior Product Manager Solutions. "And despite this, sometimes you end up with a machine that takes longer to assemble, is a greater burden on logistics, and is prone to failures in operation. That's because achieving technical excellence for individual components doesn't automatically mean that the system as a whole is a good return on investment." If you look at the complete application instead of individual products, you surprisingly often will find easy ways to improve efficiency.

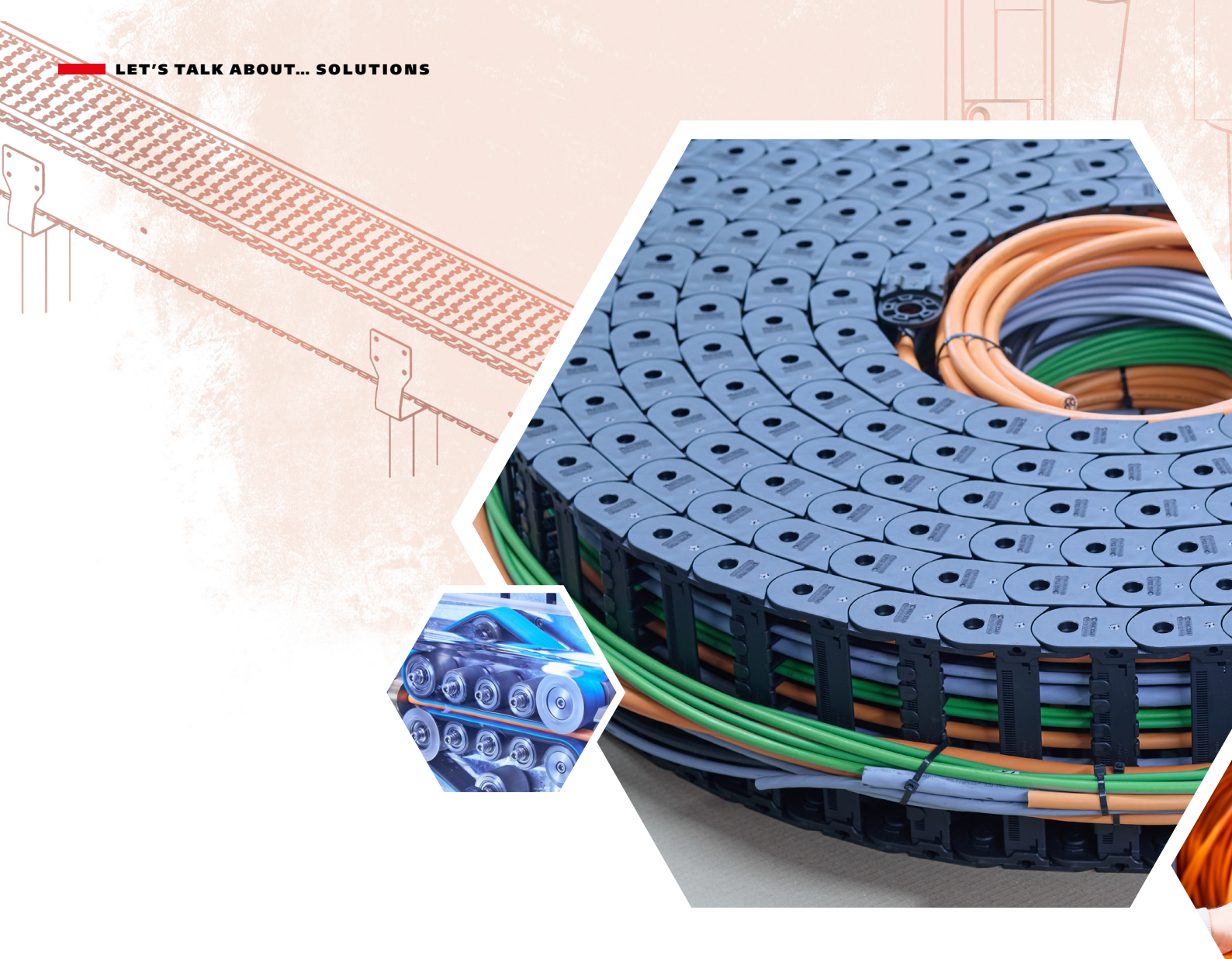




Solution
Checks

Efficiency
Potentials

Systems
Competence



"Achieving technical excellence for individual components doesn't automatically mean that the system as a whole is a good return on investment."

*Andreas Muckes,
Senior Product Manager Solutions,
HELU*

WHY A FOCUS ON PRODUCTS JUST DOESN'T CUT IT

In development projects, mechanical and plant engineers typically make decisions consequentially based on individual products. Which cable fits here? Which drag chain do I need? Which gland? The goals of those involved may also vary significantly. Engineers rely on proven modules and quick development times. Purchasing prefers interchangeable parts at low unit prices. Manufacturing focuses on established processes. These exact interfaces are where the greatest potential can be found.

With cables, in particular, there is room for a lot more flexibility than most would think. Electrical requirements are often precisely prescribed, and the actual drivers of costs lie in mechanics, material selection, environmental conditions, and approvals. A cable with an identical electrical construction (e.g., 18 G 0.75) can cost €2.65/m for permanent installation, €4.12/m for average drag chain applications, or €7.69/m for high-end applications. This is a difference of roughly 290 per cent. On top of this, there are additional costs such as sheath materials (PUR instead of PVC) or



normative requirements such as for a UL approval. "It makes sense to select the perfect solution for the type of movement and the environment of the actual application instead of automatically selecting the one with the highest specifications," explains Muckes.

SIMPLICITY IN ENERGY TRANSMISSION

Cable runs include components ranging from cable ties, trays, and corrugated tubes to drag chains in a variety of designs. The largest impact on cost typically comes from the simple question of whether an application needs a drag chain. If the application only moves a few centimetres in a straight line, then a corrugated tube will suffice, or sometimes no guidance is necessary at all.

If a drag chain is required, it pays to look at the details: open or closed, robust or light-weight? It depends on what kind of stability and coverage are really required. With metal chips, protection is necessary, however with wooden chips, an open design can even be advantageous. "The decision between steel and plastic isn't a matter of principle, but a decision that must be made on a case-by-case basis. This is precisely where you'll find the value in a systems supplier that can do both," adds Muckes.

FEWER PARTS, LESS WORK

Costs are not only incurred for materials—they are also incurred in processing. Parts need to be entered, supplies must be planned and ordered, received goods checked and distributed internally, often from multiple suppliers. Even a 'simple' drag chain with plugs, glands, and cables can quickly exceed 100 positions. Warehouse and provisioning concepts also have an impact on expenditures and error rates, or whether cables are stored on drums or in rings, whether they are cut in the warehouse or in the manufacturing line, and whether they are made available individually or as a set.



Andreas Muckes is convinced that, "if you really evaluate material flows and variations, you'll quickly find ways you could potentially save money."

Cable assemblies—combined cables and connectors—present tangible advantages for processing and inspections. "A typical round connector can be easily installed by a trained professional, but it still takes between 20 to 30 minutes to complete," explains Christian Gladis, Senior Project Manager Solutions at HELU. "In manufacturing environments that are specifically designed for this, it can be done significantly quicker and with greater consistency." Testing is just as important. Hardly any machine or plant manufacturer is able to test every cable they have assembled themselves before installation. Professionally manufactured cables, on the other hand, are thoroughly tested for logic and overvoltage, and bus cables are subjected to data transmission tests with included documentation. "This makes troubleshooting and approval during installation easier," Gladis emphasises.

DEFINING SHARED GOALS

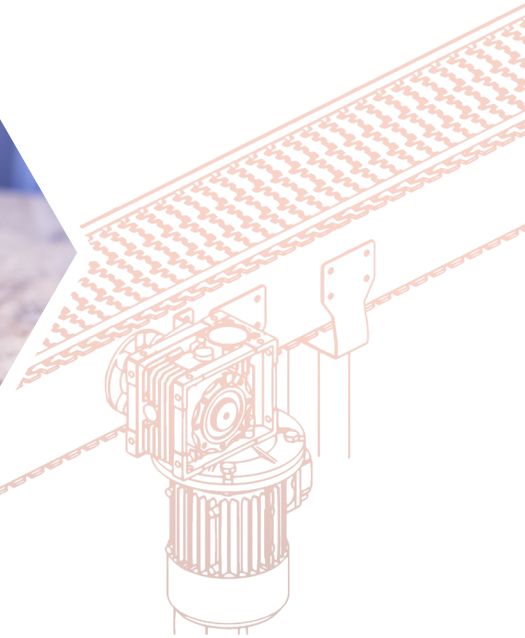
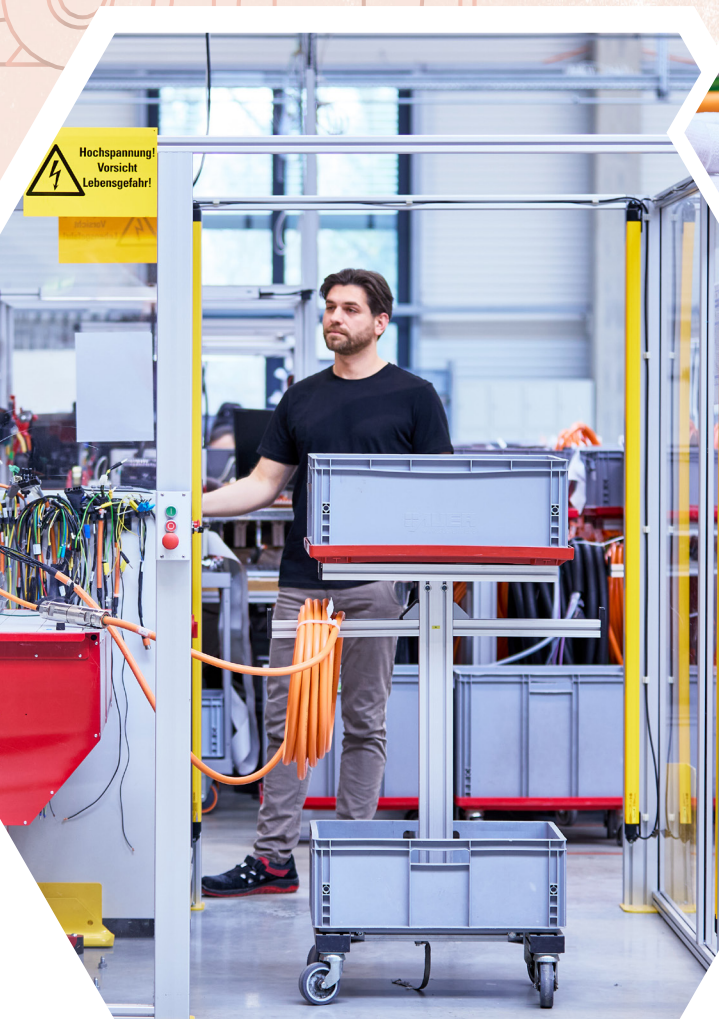
In order to implement a solution-oriented approach holistically, you must consider the different perspectives of the various teams involved. Construction



"The thorough testing of pre-assembled cables makes troubleshooting and approval during installation easier."

*Christian Gladis,
Senior Project Manager Solutions,
HELU*

wants safe, proven designs and as few iterations as possible, while purchasing concentrates primarily on standardisation, availability, and unit prices. Production, on the other hand, requires realistically obtainable stable processes, tools, expertise, and cycle times. "Each perspective is valid, but when combined, they may, in the worst case, lead to contradictions," adds Andreas Muckes. "A technically exceptional component may fulfil the requirements listed in the specification sheet but may lead to increased expenditures down the line due to there



Find more information on our solutions mindset in our new white paper. Download it for free!

being too many variations, having complicated installation procedures, or resulting in connections that are difficult to inspect."

SYSTEMS COMPETENCY FOR IDEAL SOLUTIONS

This is where systems competency shows its true value. When the application, environment, and process goals are considered together, alternatives can be evaluated early on before they become too expensive. This does not mean that everything needs to be reinvented, it means consolidating the important questions: where do pre-assembled modules really shine? What variations are technically 'nice to have', but may lead to different additional expenditures elsewhere? And where can complexity be reduced without sacrificing flexibility? "Here, we can act as an external and neutral sparring partner. One who has real, comprehensive experience with similar applications and a well-trained eye for complete systems," Muckes says.

The shift from a product-based approach to a solutions-based one opens up new options when it comes to selecting components and designing processes.

It is not about purchasing everything pre-assembled or doing everything yourself but creating flexible and practical solutions to real challenges. "We want to support users with our expertise in electrical connection technology," Muckes affirms. "Our goal is to really understand what's causing problems and to develop a solution that provides our customers with the greatest value possible." ◀

TAKE ADVANTAGE OF A SOLUTION CHECK!

HELU supports mechanical and plant engineers with on-site solution checks. Our experts examine your cable and energy transmission situation from a neutral perspective and analyse it for potential improvements such as a reduction in variations, process simplifications, and pre-assembled systems—all with the goal of making measurable improvements to efficiency. Give it a try!



Fast, Fun & Safe!

Reliable connections for Wiegand alpine roller coasters

Action-packed alpine roller coasters provide thrills for riders but regularly put background technology to the test. To ensure the safety and reliability of every ride around the globe, Wiegand, the specialists for leisure attractions, rely on robust, weather-resistant connection solutions from HELU. Cables provide their systems with power, control, and communication, even under the harshest of outdoor conditions.

You fasten your seatbelt, grip the lever, and off you go through curves, dips, and a brief moment of weightlessness. The speeds of the twists and turns of alpine roller coasters provide riders with a full-throttle jolt of adrenaline that leaves most grinning from ear to ear by the time they pull into the station. For the manufacturers, only one thing matters: maximum reliability for every ride, in all weather conditions, and at any location.

This is what the family company Josef Wiegand GmbH & CO. KG has stood for since the 1970s when they began developing and constructing leisure attractions such as alpine roller coasters and both dry and wet slides in the German city of Rasdorf. Today, the company has established itself internationally in Europe, America, and Asia. Their customers include cruise ships and shipyards, and they complete projects for amusement parks, communities, and cableway and ski-lift operators, to name a few. "Our systems should elicit emotions, but they must always remain safe and reliable. That goes for not only the construction, but also for the electrical infrastructure," points out Tobias Herbert Wiegand, Purchaser.

GLOBAL LEADER WITH HIGH PRODUCTION DEPTH

Wiegand is more than just a manufacturer; they also operate their own amusement park in Germany, and they have appropriately lofty ambitions: durable technology, robust workmanship, and a world-class level of quality spanning from local mountain ranges to the high seas. What really sets them apart is their material and manufacturing expertise, especially in the area of slides. Wiegand is the only supplier who manufactures both stainless-steel and fibre-reinforced plastic (FRP) slides under one roof. They also have a strong drive to innovate which can be readily experienced through their custom solutions—anywhere where unusual requirements for construction, operational safety, and the environment meet.

Alpine roller coasters are outdoor systems, and therefore permanently being tested for endurance. UV radiation, moisture, temperature fluctuations, and mechanical loads are all daily occurrences. Even cleaning chemicals play a role. At the same time, many electrical functions are relevant for safe operation: sensors, communication, positioning and signal technology, or even components such as capacitor-charging circuits must function reliably for years without errors or malfunctions. "Our requirements for the cables we use are clearly defined," explains Tobias Herbert Wiegand.

Wiegand first came into contact with HELU when comparing prices between different suppliers. In the end, it was more than simply the conditions that made the difference, it was the combination of extensive product

range and expert support. "For us, one real bonus is how easy it is to contact both their internal and external sales and how quickly they react to questions and last-minute changes," reports Tobias Herbert Wiegand. "For these kinds of projects, a data sheet just isn't enough," comments Sascha Link, Regional Sales Lead at HELU. "It has more to do with working together to find the right solution for the particular environment and then keeping that solution quickly and reliably available."

SOLUTIONS FOR POWER, CONTROL, AND DATA

At Wiegand, many different HELU cables are used depending on whether for robust power supply, reliable control, or secure data transmission. For power distribution in outdoor areas, the underground cable NYY-J/NYY-O is used. This cable is especially suited for applications where electricity must flow uninterrupted from the main power grid to stations along the course, to control cabinets, or to peripheral loads.

When drive systems come into play, such as with lift or propulsion units, which are often powered by frequency converters, the focus shifts to low-interference operation and EMC characteristics. Wiegand uses motor cables from the TOPFLEX series that are designed for demanding environments, are resistant to UV radiation and electromagnetic interference. Their durability ensures trust-worthy power transmission even under ever-changing external conditions. This is an important component of reliable system operation that allows Wiegand's users to put fun first.

For the system's internal communication, the HELUKAT 600 AE network cable is used. Depending on the task and assembly situation, Wiegand often uses classic PVC control cables such as the JZ-600/OZ-600 and the flexible, rubber-sheathed H07RN-F when the application calls for especially robust and flexible power-supply cables.



Alpine roller coasters provide fun and action—but for manufacturer Wiegand, safety comes first.

ABOUT WIEGAND

Josef Wiegand GmbH & Co. KG has specialised in the development and construction of alpine roller coasters, slides, and other leisure attractions for more than 50 years. The second-generation family-run company has successfully completed projects all over the world and supports its customers from the initial idea to completion.

Learn more at wiegandslide.com

PROJECT EXECUTION: COMPETENT AND RELIABLE

From offer to contract to delivery, Wiegand describes projects as straight forward and professional with something special when it comes to logistics. "For delivery, we require cable drums with IPPC treatment," their purchaser explains. "This treatment fights pests in wooden packaging and is required for export to many countries." HELU reliably delivers the right drums so that there are no difficulties in Wiegand's internal supply chain.

For Wiegand, connection technology is a component that rarely gets the spotlight but is critical for daily operations. Their decision-makers know that they have an experienced and competent partner at their side in HELU. "Every year, we realise many new alpine roller coasters and slides in the most diverse environments," reports Tobias Herbert Wiegand. "Predictable technical and logistical collaboration is important in making this happen. Both of which are absolutely the case with HELU." ◀

"Growing and Learning:

What Really Matters"

For HELU Youngster Tabea Schmid, her apprenticeship in wholesale and export management was the start to a successful career, and she still has big plans for her future. What might those be? Let's ask Tabea:



Beginning my journey at HELU:

It was already clear to me during my time at vocational school that my future career would have something to do with business. In my interview with HELU, I immediately felt at ease with the open and warm atmosphere. It felt like a conversation between equals. I was especially pleased to receive my acceptance almost immediately afterward.



My tasks:

During my apprenticeship, I had the opportunity to get to know different departments and even take on different business-related tasks from supporting daily business to collaborating on special projects. I was able to garner valuable experience and work increasingly independently over time.



A highlight from my time as a Youngster:

I remember the activities with the other apprentices during my time as a Youngster especially fondly. For example, we spent the day at the Tripsdrill amusement park, which really brought us together as a team.



My next steps:

After the successful completion of my apprenticeship, I was hired by HELU in their accounting department. And soon, I'll be beginning with a new part-time degree programme to expand my expertise and grow professionally.



My advice for other Youngsters:

Even if things are often difficult, don't give up and don't compare yourself to others. Everyone learns at their own speed. What really matters is that you stay motivated and continue to learn and grow!

GET YOUR BACKSTAGE PASS!

Follow the HELU Youngsters on Instagram and TikTok now:



Instagram



TikTok

Forward, Backward, Clean!

Custom cables for Cleanfix engine ventilation systems from Hägele

Hägele, the agricultural machinery specialist, relies on individually coloured automotive cables from HELU for the electrical equipment of its Cleanfix cooling systems for combustion engines. They can be identified quickly and unambiguously during assembly, and they ensure reliable and durable operation even under the harshest operating conditions.

When off-highway machines such as tractors, combine harvesters, wheel loaders, forestry machinery, or construction equipment perform heavy-duty work under harsh conditions, it is often the smallest particles that cause them the most trouble, as dust, chaff, wood shavings, or abrasive stone residues stubbornly accumulate in every gap and crevice. This includes the radiator. If this becomes blocked at some point, cooling performance declines. In the worst case, this can bring the engine and the entire machine to a standstill, resulting in significant costs due to downtime and repairs.

Hägele tackles this challenge directly. Founded in 1958 and based in Schorndorf in Southern Germany, the company is an internationally active supplier of reversible fans for combustion engines. First introduced in 1998 and marketed under the Cleanfix brand name, these fans feature one decisive advantage: the direction of the airflow can be reversed at the touch of a button, allowing the radiator to be cleaned automatically within seconds, as contaminants are simply blown outwards. This not only reduces maintenance requirements and prevents costly downtime, but it also significantly lowers the machine's fuel consumption. "Our calculations show that the cost of purchasing a Cleanfix fan can be recouped within the first year", reports Marketing Manager Gideon Flor.

This innovative idea proved extremely successful for Hägele, as the patent was awarded a gold medal in 1999 at AGRITECHNICA, the world's leading trade fair for agricultural machinery. With this innovation and its



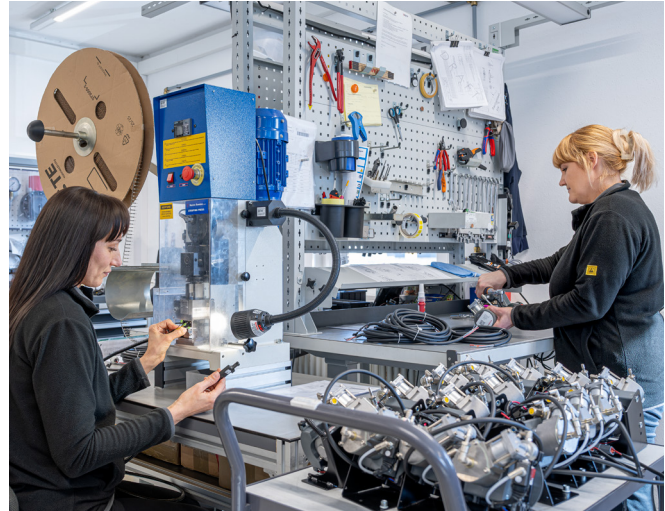
© Jens Oswald

The blades of Cleanfix fans are adjustable in order to adapt the airflow and cooling performance to the respective operating conditions.





Each fan is equipped with a control unit that executes and monitors every movement with precision.



The cables are cut to length, assembled, and prepared on site for installation in the control unit.

commitment to continuous improvement, the company has now grown to around 180 employees worldwide and produces approximately 20,000 fans per year. “We are not only a partner to developers and OEMs, but we also offer our products for retrofitting in existing machines,” Flor explains.

ELECTRICAL EQUIPMENT—EXTREME CONDITIONS

To adapt the airflow and cooling performance to the specific operating conditions, the angle of the fan blades can be adjusted. For this principle to function reliably in everyday operation, not only must the mechanics withstand high loads, but the electrical connection technology is also a critical factor for success. Hägele fans are equipped with comprehensive control, regulation, and sensor technology that executes and monitors every movement with precision. It is connected via cables in a wide range of lengths and colours, each tailored specifically to the respective engine installation space and allowing for unambiguous identification during assembly.

“We need partners who think along with us, react quickly, and find solutions. This works extremely well with HELU.”

Medet Bozkurt, Design Engineer, Hägele

The conditions in which Cleanfix fans are used are extremely demanding. In its own highly specialised test chambers, the company ensures that every component used meets the most stringent quality requirements. “Our ventilation systems must withstand ambient temperatures of around -30 to +40 °C during typical operation,” explains Design Engineer Medet Bozkurt. “Since the fan is usually installed close to the engine, even temperatures exceeding 100 °C are commonplace.” In sectors such as mining, additional requirements come into play, such as restrictions on flammable materials, as sparks may be

generated when rock is removed. “Therefore, we pay very close attention to which cables and assemblies we use,” emphasises Bozkurt. For many years, the company has relied on HELU as a steady and dependable partner.

TAILORED IN FUNCTION AND COLOUR

For the control units of the Cleanfix fans, cables are not simply a connection but an integral part of the overall system. Therefore, the cable assemblies are designed so that they can be routed cleanly through housings and fixed securely, without making installation unnecessarily difficult. Visual appearance and clear identification also play an important role, as visible assemblies should match the product’s colour scheme or the OEM design. At the same time, Hägele uses defined colours as an internal coding system to clearly distinguish cable functions, especially during assembly.

Hägele specifically uses special automotive cables based on the LiYöY11Y types in two and three core variations with different cross sections, as well as the FLRYWYW

type in a three-core variant with a cross section of 0.5 mm². They are cut to length, assembled, and prepared in house for installation in the control unit. The manufacturer's current annual requirement amounts to around 43 kilometres of cable length, distributed across the various combinations. "It is crucial that we supply high-quality cables that can be adapted to the various Cleanfix variants with repeatable precision during assembly and with clean documentation, including the colour and labelling specifications required by Hägele and the respective OEMs," explains Timon Nonner, Area Sales Manager at HELU. "This is how assembly processes remain streamlined, clear identification is maintained, and any modifications can be implemented quickly."

CLOSE PROXIMITY AND EASY ACCESSIBILITY

In their partnership with HELU, regional proximity also plays a role: the Hemmingen location can be reached from Hägele's headquarters in around 40 minutes. Additionally, the initial contact arose through a development consultation, which enabled a shared understanding of requirements, installation situations, and technical details to be established at an early stage.

In day-to-day cooperation, Hägele particularly values the immediate availability of a dedicated contact—especially when things need to move quickly—as well as the ability to resolve technical questions pragmatically and in a solution-oriented manner. "For me, one of HELU's major advantages is that the sales team not only sells but is technically proficient and keeps both the people and the operation as a whole in view," praises Purchaser Marc Philipp Schönfeld. "The project and procurement processes are also clearly structured, and deliveries are always fast and punctual."

ON THE PATH TO BECOMING A SYSTEM SUPPLIER

Hägele is working consistently to further expand its system expertise. Improvements gleaned from experience contribute to the continuous development of their product portfolio. "When we develop a new version—whether with different sensor technology or for a specific installation situation—we need partners who think along with us, react quickly, and find solutions. This works extremely well with HELU," says Medet Bozkurt with satisfaction. "That is why they will remain our first choice when it comes to electrical connection technology." ◀

ABOUT HÄGELE:

Founded in 1958 in Göppingen in Southern Germany and now based in nearby Schorndorf, Hägele GmbH is an international innovation and technology leader in reversible fans for combustion engines. These are used primarily in what are known as off-highway applications—that is, in vehicles and machines that operate off paved roads and in rough terrain. The company has three development and production sites as well as a network of sales partners in more than 25 countries.

Learn more at cleanfix.org



Well-coordinated team: Medet Bozkurt (left), Design Engineer at Hägele, and Timon Nonner, Area Sales Manager at HELU.

READY FOR CENTRE BOUNCE

The impressive silhouette of the Marvel Stadium towers over the Australian metropolis of Melbourne. This massive arena is not just a venue for concerts by international megastars like Taylor Swift and Coldplay; it's also home to one of the most popular sports in the country, Australian football. AFL national league games regularly see more than 50,000 visitors filling the stadium to barrack (Aussie for 'to cheer') for teams like the Western Bulldogs or the North Melbourne Kangaroos.

With its retractable roof, movable stands, and gigantic LED screens, the building is also a technical masterpiece. An automatic turf-care system ensures ideal conditions on the pitch such as even, healthy, and strong growth by providing precisely controlled heating, UV lighting, and watering. HELU Australia supplies robust and durable connection cables for these systems that ensure a reliable power supply despite moisture and mechanical loads.





The Holistic Solution Mindset

After nearly 50 years on the market, HELUKABEL is changing its brand name to HELU. Why is now the perfect time to take this next step? And what does this mean for our customers? We discuss these questions and more with our Managing Director, Marc Luksch.

HELUKABEL will now be known as HELU. Why take this step, and why now?

Because our customers' requirements and the dynamics of the industry have undergone a noticeable change. Nowadays, connection technology rarely refers to just a single product. Customers are looking for installation-ready solutions, speed, clear processes, reliability, and accountability. Over the past few years, we have consistently expanded our competences, including the addition of new subsidiaries and service areas. The next logical step is to consolidate these strengths under a clear brand: HELU. This reflects our strategic evolution.

What does this new brand presence mean for our customers, exactly?

Above all, it means reduced complexity and improved efficiency. For many projects, it isn't the technology that presents the greatest challenge, but communication, alignment, and time constraints. With HELU, we're combining cables, drag chains, and assemblies to create custom systems that are process-reliable, tested, and ready for installation. For our customers, this means easier coordination, quicker implementation, and a partner that takes responsibility for the entire system.

For decades, HELUKABEL has stood for availability and reliable delivery. Will this remain so in the future?

Absolutely. Availability, quality, and reliability make up our foundation—nothing is changing there. HELU builds upon this, expanding our value proposition: we deliver not only high-quality components, but also think holistically and in terms of systems. Our customers can rest assured that, when it's urgent, technically demanding, or when it 'just needs to work', we're there, and globally at that.

A system orientation sounds good, but what does it mean for technical purchasing specialists or project leads?

Imagine you need to coordinate cables, assemblies, and drag chains from multiple suppliers for a system. This takes time and poses risks. With HELU, you receive a coordinated, complete package with a clearly defined contact person, comprehensive specifications, and thorough testing. This minimises errors and speeds up installation. And should adjustments be required later, it's clear who is responsible.

HELU has adopted a new claim, 'Always stay electrified.' What does this symbolise?

That we want to do more than just connect; we want to actively 'electrify' projects through our competency, collaborative approach, and ability to deliver. It has always been our mission to reliably bundle energy and communication and deliver it precisely to its destination. 'Always stay electrified.' is the evolution of this. We think in terms of solutions, impact, and tempo. For customers, this means pragmatic, robust system solutions that deliver in everyday project environments and service that keeps up with you.

What developments in particular are driving this realignment?

Shorter product life cycles, more variations, a higher rate of integration, and, at the same time, a goal to decrease expenditures. Furthermore, emerging areas such as automation, renewables, and e-mobility are continuing to grow. If you want to find success here, you need partners that truly understand the technology, can deliver quickly, and assume responsibility for systems. This is exactly what HELU is built for.

In conclusion, what would you ask of your customers during this phase?

Dialogue. Let us know where you would like to streamline communication, what system solutions would save you time, and which processes we can simplify together. HELU is a promise to make electrical connection technology clearer, more efficient, and more future-proof, and this is a promise best kept together, with you. ◀

Ensuring Every Item Arrives Safely



Cables with international approvals for Lantech end-of-line packaging machines



© Stefan Segers

The industry pioneer Lantech has relied on HELU for electrical equipment for 20 years. Once installed, these cables make reliable operation possible despite challenging conditions. They are even suited for use in customers' applications around the globe thanks to their international approvals.

Whether in e-commerce, the food & beverage industry, in logistics, or anywhere where goods are being made ready for shipping, quick and efficient processes are just as important as safety and accuracy. This is because, at the end of the supply chain, the packaging is the deciding factor in whether goods arrive undamaged. The yearly global costs related to shipping damages are estimated to be as high as tens of billions of euros.

It has been Lantech's mission for the past 50 years to find solutions for this. Founded by brothers Pat and Bill Lancaster in the city of Louisville in the US state of Kentucky, the company specialises in end-of-line packaging solutions. These are machines that assemble and seal cardboard boxes, secure pallets with film, or process multi-part packaging. Lantech has already shipped over 100,000 such systems around the globe—systems that are constructed in the USA and the Netherlands.

PIONEER OF THE PACKAGING INDUSTRY

In 1972, the freshly founded, family-operated business had already reached a real milestone with their invention of the stretch wrapper, which is a system that remains pivotal to the packaging industry to this day. Around the world, billions of pallets are wrapped in stretch film every year to protect them during loading and transport. Lantech has since maintained their innovative spirit and a strong commitment to quality. Their systems impress with their near 98% availability and have proven themselves under challenging conditions.

"Our machines work in cold and freezing temperatures, in moist and warm environments, and sometimes even outdoors," explains Ron Jansen, Hardware Developer with Lantech at their Malden location in the Netherlands. "In the food industry, they often come into contact with aggressive cleaning agents. Despite this, our customers expect them to operate safely and reliably—sometimes around the clock, too."

One factor that is often underestimated, but is precisely what makes this possible, is hiding in the control cabinet and throughout the entire system: electrical connection technology. For Lantech, this is one of the most important requirements for process stability, high availability, and their very own quality guarantee. "This is why we rely exclusively on high-quality components from reputable manufacturers," underlines Jansen.

FUNCTIONAL AND STANDARDISED AT THE SAME TIME

In modern packaging machines, a number of functions must run in parallel: drives, safety systems, sensors, HMIs, communication... Everything must be reliably connected—often in tight spaces, such as in control cabinets, and in moving, mechanical applications. It is for precisely this reason that the types of cables used by Lantech are so diverse. And on top of all of this, the company also delivers worldwide. Depending on the destination region, machines must fulfil different standards and requirements, such as CE/UKCA in Europe or UL/CSA in North America. "Standardising the products we use is, of course, one key to efficient manufacturing, but it cannot come at the cost of conformity with legal requirements," emphasises Jansen. "Instead, we need solutions that meet not only our functional requirements, but also those set forth by standards."



It is for this reason that the Lantech factory in the Netherlands has relied exclusively on HELU for 20 years when it comes to cabling their machines. The connection technology specialists' comprehensive portfolio contains every type of cable needed for complex systems in reliably high quality. "We need cables for various applications in our machines and control cabinets, such as connecting different field components for signalling, safety, and communication" says Jansen. The export-oriented company procures everything they need for their different target regions from a single source. For the European market, Lantech puts its trust in the proven JZ-500 control cable with VDE and UKCA approvals, and in North America, the UL/CSA-certified equivalent, the JZ-602.

For cabling control cabinets, the plant engineer trusts the single cores of the FIVENORM series. As the name suggests, these are certified according to five different, international norms or standards and can practically be used around the globe. The advantages of FIVENORM single cores are obvious: "We can reduce our parts lists and need to keep fewer different cables in

stock. This saves space in the warehouse and reduces effort in procurement," explains Ron Jansen. To safely guide cables in moving applications, Lantech uses HELUCHAIN PLASTIC LINK 2-KL drag chains that are specifically designed for light-duty mechanical engineering.

MANUFACTURING EXACTLY WHAT IS NEEDED

Lantech sources the cables for their Kanban system from the Dutch wholesaler itsme. All parts that are regularly required in manufacturing are automatically restocked by their retail partner on a weekly basis. "For us, this simultaneously means minimal internal effort keeping items in stock and highly reliable supply," according to Jansen. The recommendation for HELU came from itsme, as well. "There were three important deciding factors: local availability, quick delivery, and simple communication. This includes direct contacts and technical support," the developer remembers.

For Lantech, reliable deliverability is a decisive criterion because even if just one cable is missing, it can lead to a complete manufacturing line being disrupted. To avoid

this, HELU keeps an additional buffer of stock at its Dutch subsidiary in the nearby town of Budel. And in the rest of the world, the specialists for connection technology are represented by a number of local subsidiaries. "This means that we can supply our international customers with replacement parts quicker and reduce expensive downtimes caused by maintenance and servicing. This is an important component of our service concept," outlines Jansen.

For Lantech, a partnership with HELU means certainty in deliverability and machine availability. "The ease and reliability of procurement makes our work in production and logistics a breeze, and the high quality of the cables contributes to the safe and lasting operation of our machines," summarises Ron Jansen. "Thanks to the different standards and approvals, we have access to the right solution for every corner of the world. This is something that we want to take better advantage of in the future, especially with the FIVENORM single cores." For this engineer, one thing is clear: "We absolutely want to maintain this successful collaboration and continue to strengthen it." ◀

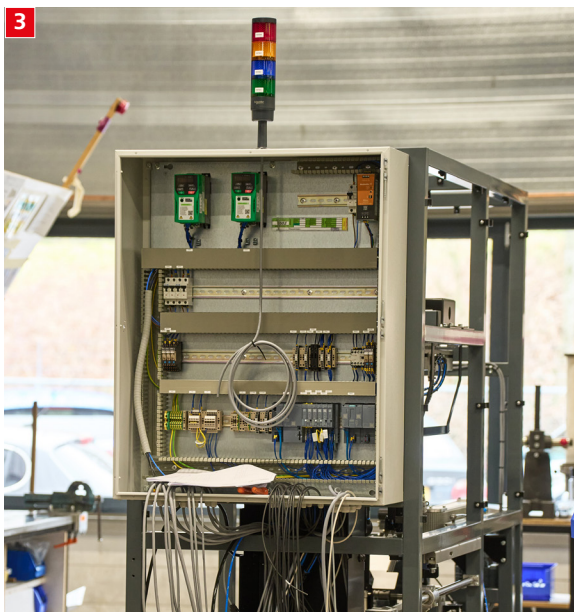


"The ease and reliability of procurement makes our work in production and logistics a breeze, and the high quality of the cables contributes to the safe and lasting operation of our machines".

*Ron Jansen,
Hardware Engineer, Lantech*



- 1** The Lantech factory in Malden in the Netherlands has relied on solutions by HELU for 20 years.
- 2** The cables connect numerous machine components—often in confined spaces.
- 3** Single wires from the FIVENORM series are used for control cabinet wiring.



ABOUT LANTECH

Founded in 1972, Lantech specialises in industrial packaging machines. The company offers automated systems and solutions for every industry to minimise transport damage and waste. Lantech has production sites in the USA and the Netherlands, as well as a global sales and service network.

Learn more at lantech.com

"A Combination of Global Strength and Local Presence"

From Mexico to Chile: Gerardo Montenegro Aznar is the HELU Regional Director for all of Latin America. In this interview, we discuss what he finds so exciting about the region, what opportunities and potential he sees for the future of the company there, and what brought him by way of Hemmingen from Mexico to Switzerland, of all places.

You have worked at HELU for more than ten years. What first brought you to the company, and what has your career path looked like up to today?

I coincidentally found my way to HELU, which is what makes it so exciting. I studied in Germany and used to even live in Stuttgart. Before I came to HELU, I worked for a German general contractor there, where I was responsible for energy projects in Chile. Ironically, we sourced solar cables for this project from a competitor. One day, a close acquaintance who worked at an employment agency told me about an open position at HELU for Latin America. I applied that very same day, and the rest is history.

From the beginning, my career at HELU has been heavily focused on sales. Over the years, I was entrusted with various tasks within the company until I eventually took over responsibility for Latin America. I am particularly driven by the strategic

growth of our local presence with customers and teams.

You were born in Mexico, work for a German company, and are based in Switzerland. How did this come to be?

In short, through love and dreams. After I had already begun working at HELU, I met my wife. She's Swiss. Some time later, we came to the decision together that we wanted to live in Switzerland. The company supported me tremendously through this and made me the offer of continuing my work from there. I was—and still am—very thankful for this. An international arrangement has always been natural for me, and I find Switzerland to be an ideal place to live. It is international, stable, and, at the same time, very close to the HELU headquarters and our global structures.

Are there any customs or traditions from Mexico that you have brought with you to Switzerland?

Yes, of course. For example, Día de Muertos, the Day of the Dead, is one of the most important holidays in Mexico where we pay our respects to friends and family members who are no longer with us. As part of our tradition, we build a colourful altar at home with photos of the deceased and some of their favourite things. Together, we remember the many wonderful and happy times we shared with them. This is a very important and valuable tradition for me that I would like to pass on to my children. Every year, it reminds me of where my roots lie, even when my daily life has such an international focus.

As Regional Director LATAM, you are responsible for the HELU subsidiaries in Latin America. Which countries does this include and what are your duties?

I am responsible for multiple subsidiaries in Latin America including Mexico, Brazil, Peru, and Colombia, as well as for our colleagues and partners in other key markets. My duty is to lead



"Especially in volatile environments, customers appreciate stability, technical expertise, reliability in planning, and a strong, global partnership."

the region holistically, whether it be in its strategic direction, growth, profitability, or the continuous optimisation of its processes. This also includes close collaboration with local management and the further development of our subsidiaries.

One especially important aspect of my role is to serve as a bridge between headquarters and the local teams. This means translating global strategies into concrete, regional measures while simultaneously maintaining enough flexibility for country-specific market requirements. I am often tasked with finding the most constructive way to incorporate different ideas.

What are some of the economic and cultural features of the Latin American markets and customers, and how do the individual countries differ from one another?

Latin America is a very economically, culturally, and industrially diverse region. Each country has its own conditions, decision-making processes, and business cultures. This makes my work incredibly exciting and sometimes also challenging. There is one thing that applies almost everywhere, though: business relationships and long-term partnerships based on trust and reliability are extremely important.

My job is to understand these cultural particularities and reconcile them with our HELU global processes, quality standards, and governance structures. This

balance between global consistency and local flexibility is a key factor for success in the region.

In international business, we have witnessed increasing levels of unrest over the past few years, partly due to the new tariff policies in the USA. Has this put any strain on businesses in Latin America?

The geopolitical and economic tensions over the last few years have, of course, impacted Latin America. Countries such as Mexico and Brazil, that play an important role in the international mechanical engineering or automotive industries, have been particularly affected. At the same time, we are seeing how these changes are opening new doors of opportunity. Subjects such as regional added-value and more resilient supply chains are becoming ever more important. For HELU, this means that we are required to orient our supply chains, operational processes, and investments more regionally while, at the same time, working in concert with headquarters. Especially in volatile environments, customers appreciate



stability, technical expertise, reliability in planning, and a strong, global partnership even more.

Which industries are of particular importance for HELU in Latin America, and what kind of potential do you see for the future?

Currently, Mexico and Brazil are the two economic heavyweights of the region. In Brazil, we are working intensively with a number of mechanical engineering firms that export their products worldwide and have the strictest requirements for quality and technical solutions. Right now, Mexico is the most dynamic Latin American market, and we are seeing large investments into the automotive industry, as well as in other industries such as pharmaceuticals, electronics, cement, food, mining, oil, gas, and infrastructure. I see great potential for all countries in Latin America in the future, especially where there is increasing customer demand for complex system solutions instead of individual products.

The demand for these exact system solutions is growing globally, even in Latin America. Why is this? And what additional value can HELU offer its customers here?

Our customers in Latin America are under ever-increasing time and cost constraints. As a result, the demand for pre-assembled, installation-ready

solutions is rising. These solutions simplify processes, reduce installation times, and improve operational safety. HELU is well-positioned here since we combine technical know-how, product diversity, and operational excellence together with global strength and local presence. This is of great value to our customers.

Which product, successful solution, or customer feedback impressed you the most as of recent?

Together with our partner VITEL in Chile, we worked intensively on a project dealing with the automation of central warehouse processes. We were in direct competition with multiple other suppliers. In my opinion, what made the real difference was our close collaboration within the HELU Group. Working together with our colleagues from KABELMAT, we were able to develop a custom solution that perfectly addressed our partner's needs. This is how we won the contract and is an excellent example for how much you can achieve when trust, teamwork, and technology come together. ◀

PUTTING GERARDO MONTENEGRO AZNAR ON THE SPOT!

Tea or coffee?

→ It depends on my mood, but I rarely drink either.

Tacos or cheese fondue?

→ Even as a Swiss by choice, I am very clearly on team tacos.

Suit or jeans?

→ Jeans for everyday wear, but I enjoy dressing up once in a while.

Early bird or night owl?

→ Night owl—sometimes due to jet lag after a stay in Latin America.

Do you cook at home or go out to eat?

→ I can't decide. I love both.

Do you prefer doing sports or watching them?

→ Definitely doing them myself. For example, in the winter, I go skiing with my family.

Summer or winter?

→ Hmm... actually, summer! But I do find winter to be very special.

Go camping or stay in a resort?

→ I prefer camping. But I enjoy road trips the most.

Music or podcasts?

→ It depends on the situation, but I enjoy both.

City or village?

→ Large cities used to be my thing, but today, as a family man, I prefer living in a village.



Guaranteeing Quick Delivery

Cables and connectors: you rarely come across one without the other. To make sure they work together, a few steps must be taken. In our series on cable assemblies, we will be showing you what these steps are and more—starting with logistics.



Efficient logistics is one of HELU's key strengths—including in the production of cable assemblies.



Before a cable can be assembled in production, meaning before it can be fitted with an appropriate connector, much has already happened in the background: cable drums are made ready, connectors are commissioned, cables are cut to exact lengths, and the right components for an order are bundled together. For customers, this frictionless start is a major advantage as delivery times do not begin merely at assembly, they begin in the warehouse.

Fully automatic warehousing, quick availability

Efficient logistics is one of HELU's greatest strengths around the globe. Ten-thousand variations of cables and wires are permanently available in our logistics centres where they are supported by modern warehouse and conveyor technology so that orders can be fulfilled 'just in time', every day. Our assembly locations also have their own warehouse areas where they keep common cable types on hand so that they are prepared to quickly begin working on the next order.

Assemblies need even more than that. They require connectors, glands, lugs, ferrules—all of these parts, too, are available ex stock from our small-parts warehouses, which are also automated, controlled, and managed using software. As soon as an order is received, the required materials are commissioned, meaning they are prepared in the desired quantities. All of this happens digitally and within minutes.

Exact cuts to desired lengths

Every customer has their own unique specifications when it comes to the lengths of assemblies. This is where cutting comes in. The desired lengths are unrolled from their original drums and cut to order—fully automatically. The cable warehouses are directly connected to the cutting machines using conveyor technology. This results in exact lengths and reproducible processes and creates a reliable basis for the subsequent assembly. ◀

Ask the Expert

What is the most decisive factor in determining the delivery time of a cable assembly? And in what way can the customer actively affect it?

Delivery times are primarily determined according to three factors: the availability of cables, connectors, and accessories, the design complexity, and the scope of the order. Customers can have the greatest influence on lead times by providing as exact technical specifications as possible from the start—ideally including part numbers, pin assignments, and clear length and tolerance specifications. Standardising preferred components or stock lengths also often speeds up delivery, as parts can be picked more quickly. And the earlier alternatives for critical components are approved, the easier it is to avoid bottlenecks.

What differences are there between standard and custom assemblies?

Standard assemblies based on guidelines from drive technology manufacturers can be moved directly to fulfilment once the order is received. This is because parts, lengths, and processes are predefined, the raw parts for the desired assembly are either on hand or can be ordered on short notice, and logistics is able to make the components available as needed. For custom assemblies, the process typically starts with a request from a customer or from one of our Sales Manager Solutions. These are then inspected for technical feasibility. After that, we request the necessary materials and prepare an offer for the customer. Only when they have been approved are the cables, connectors, and accessories for the order procured and prepared for production.



ABOUT THE EXPERT:

Christian Gladis, Senior Project Manager Solutions at HELU

Welcome to China!



Interesting facts about the HELU subsidiary and the country

- ▶ HELU China was founded in Shanghai in 2002 and opened its own production facility in Taicang in 2013. Since 2023, the headquarters of the subsidiary have been located in the major metropolitan city of Changzhou.
- ▶ The newly constructed production facilities in Changzhou have extensive capacities with roughly 15,000 m² of production space, 8,900 m² of storage space, and a highly modern fleet of machines.
- ▶ At HELU China, 158 employees cater to their customers' needs. Among these, 33 sales colleagues are organised into 5 regional sales teams.
- ▶ China primarily produces for its local market. Some of their bestsellers are control cables such as the JZ-500 and the JZ-HF, as well as H05V-K and H07V-K single cores.
- ▶ Their most important customers include industries such as industrial mechanical engineering, automation, automotive, and semiconductor technology with a number of international corporations with local Chinese subsidiaries.

FUN FACTS

The giant panda, the national animal of China, can consume roughly **20 KILOGRAMS OF BAMBOO**

a day, despite its digestive system having developed to handle meat. These endangered bears serve as a global symbol for the conservation of nature and species.



The 1.4 billion people in China speak different languages and dialects, however they all use the same writing system. This system contains more than **100,000 CHARACTERS**, however only a small fraction are used daily. Many of the characters resemble small images and bear a strong, visual resemblance with their meaning. For example, mountain or sun.



The Chinese **NEW YEAR CELEBRATION** is the most important holiday in China and celebrates the beginning of the Lunar New Year in January or February. The millions of people travelling to visit their families is considered the largest annual human **MIGRATION** in the world.

The Great Wall of China is an unbelievable **21,196 KILOMETRES** long and is the most famous landmark in the country. It was built over the course of 2,000 years. Contrary to popular belief, the **GREAT WALL** is not visible from outer space.



The zodiac plays an important role in Chinese astrology. But, in place of Aries, Leo, and Taurus, the Chinese are more familiar with the snake, dragon, or tiger. Every year is represented by an animal, and **2026** is, for example, the **YEAR OF THE HORSE**, which stands for vitality, speed, and progress.

FAQ

Electromagnetic Interference Despite Screening: What Could Be the Cause?

Problems with EMC in machines and systems are typically difficult to diagnose. They appear as sporadic sensor glitches, inexplicable field bus errors, or irregularities in servo drives. The culprit is often the level of electromagnetic interference in modern systems. Frequency converters and motors operate with fast switching edges, and vision systems, IO-Link components, and industrial Ethernet communication are concurrently in play. This requires that screening, earthing, and cable routing are all implemented consistently and correctly.

Electromagnetic compatibility is a question of contact surfaces, transitions, and, above all, impedance. This is understood to be the frequency-independent total resistance of an electrical conductor or component against alternating current, which is a combination of ohmic resistance, inductance, and capacitance.

A typical question that users have is, "screen bonded at both ends or only one?" The answer depends on what type of interference components need to be managed. In industrial applications, high-frequency interference currents dominate the scene. Typically, these are most effectively reduced when the screen is bonded at both ends. A screen that is bonded only on one side cannot reliably dissipate these currents, thus increasing the danger of cables emitting interference or coupling with adjacent cables.

For very sensitive, low-frequency, analogue signals, a one-sided bond can make sense in individual cases to avoid earth loops. In modern systems, however, another method is preferred: a properly engineered equipotential bonding system and a defined screen connection. This is a central component of stable EMC, especially for modular machines.

A screen, however, is only as effective as its connection. A common installation mistake is the so-called pigtail solution. This is when the screen is separated, twisted into its own wire, and then connected to the earth. This is a problem for high frequencies because this wire introduces inductance into the circuit, thereby counteracting the function of the screen itself. The better alternative is a full-coverage, fully enclosed, 360° connection via EMC cable glands, screen clamps, or screen brackets on a screen connection bar, and preferably directly on a conductive mounting surface. The rule of thumb is 'wide, not long'. Additionally, contact surfaces must be electrically reliable. Varnish, layers of oxidation, or grime significantly reduce effectiveness.

In control cabinet engineering, motor cables are one of the strongest sources of interference. Best practice, therefore, is to use rigorous screening with a defined connection at both ends, positioned as close as possible to the inverter output and to the motor, or, where applicable, to the connector. This also requires a properly connected protective earth (PE) and equipotential bonding. If the door of the control cabinet, mounting surface, PE rail, and machine body are not connected properly, the effectiveness of even a well-connected screen is limited.

Installation also plays a large role—power, signal, and data cables should always be run separately. Running these in parallel within the same channel significantly increases the risk of interference coupling. If crossings are required, experience has shown that 90° crossings are typically more robust. Following these guidelines during installation can prevent many EMC issues and noticeably increase system availability. ◀

About the expert:
Christian Dettmer,
Head of Technical
Department at HELU

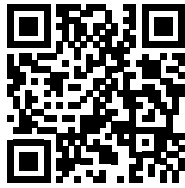


OUR TRADE SHOW DATES

HELU will be exhibiting at various trade shows around the world over the next few months.

Please check our website helu.com/trade-fairs for an up-to-date overview of the dates and locations.

We look forward to your visit!



HELU ON SOCIAL MEDIA

We use our social media accounts to share all the latest news from the HELU world with you: from product innovations and successful customer projects to delving deep and sharing knowledge on technical topics concerning electrical connection technology.

Would you also like to stay up to date? Then follow us!

We can be found on the platforms listed below:

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Imprint

PUBLISHER:

HELU KABEL GmbH
Schloßhaldenstraße 10
71282 Hemmingen
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helu.com

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PRINTING AND PROOFING:

W. Kohlhammer Druckerei GmbH

Published biannually.

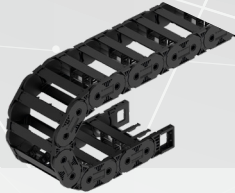
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From individual components to complete systems, HELU puts its decades of expertise to use in producing high-quality custom solutions in their own factories that are perfectly tailored to each other and to the specific application. For you, this means less effort, quicker implementation, and a single, competent partner who takes responsibility for the entire system.



- 1 Drag chains**, such as the HELUCHAIN PLASTIC LINK 4-45, protect cables in moving applications from external influences and damage.

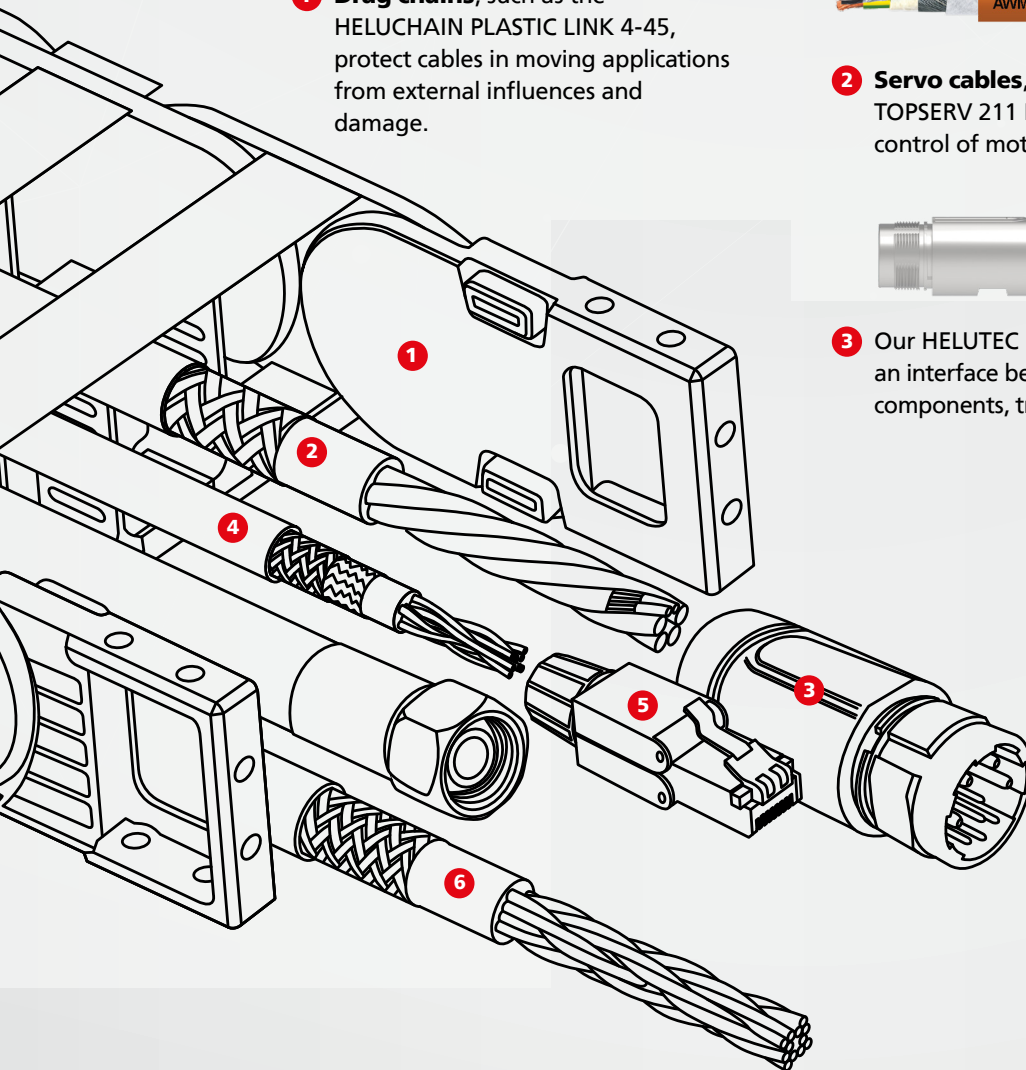


HELUCHAIN® TOPSERV® PUR 4G2,
AWM STYLE 21209 VW1 AWM I/II/A/E

- 2 Servo cables**, such as the HELUCHAIN TOPSERV 211 PUR UL CSA, allow for the precise control of motors in drive technology.



- 3** Our HELUTECH **round connectors** serve as an interface between different system components, transmitting energy and data.



HELUCHAIN® HELUKAT® INDUST

- 4 Ethernet cables**, such as the HELUCHAIN HELUKAT 100S Cat 5e 4P SF/UTP TPE, are indispensable for digital communication in industrial applications.



- 5** The **RJ45 plug** is a standardised interface for data transmission in primarily Ethernet networks.



HELUCHAIN® MULTISPEED® 521-C-PUR

- 6 Control cables**, such as the HELUCHAIN MULTISPEED 521 C PUR UL/CSA, are used for the internal and cross-system wiring of machines, systems, sensors, and actuators.



Always stay electrified.

More than just cables: At HELU, it is our mission to provide our customers and their applications with the custom energy and data-transmission solutions they need, including cables, drag chains, assemblies, and installation-ready complete systems. This is how we create connections that keep you and your applications electrified.

helu.com