



# Connect

02

September  
2025



## MINITEC SMARTASSIST

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assistance system

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## FMS MAX

New assembly system for serial  
assembly and production processes

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## *Order more simply:* **The new MiniTec-Webshop**

The new MiniTec b2b webshop offers you as a corporate customer even more convenience and speed for your order! You can see the current price for all store products and can add them to your shopping cart and order immediately.

With MiniTec aluminum profiles, you can order individual bars as well as complete packing units with whole or centrally separated bars - with a corresponding price advantage. It is also possible to order individually cut profiles.

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To be able to use the MiniTec shop as a corporate customer, you must be registered and activated. You can find out what the requirements are, how to proceed for activation and how you can tell whether you are already activated on our store information page.

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## DEAR READERS,

Next year, MiniTec will be celebrating its 40th anniversary. During these four decades we have experienced several highs and lows, mastered economic crises and nonetheless continuously invested in our company, our employees and products. We often acted countercyclically; mostly looking back with success. For us, sustainability not only means acting in the interests of climate protection, but also thinking and operating for the medium and long-term. This includes repeatedly analysing and optimising our corporate activities. In a world that has been in permanent change for some time now, this is not easy but all the more important. Because the markets change permanently and the basic conditions are redefined time and again.

This year, as part of the "Mission Future" project, we have concentrated on our company, our processes, our markets and customer relations. The whole company was given a thorough examination with the support of an experienced business consultant. Always in cooperation with our employees.

We can now say: it was worthwhile! We were able to improve many processes, sensitise employees for this, increase the quality of our projects, shorten throughput times and optimise our stock keeping. Always with a view to operating efficiently and economically, to improve the quality of our products and projects for our customers and to ensure secure jobs for our employees to which they return satisfied each and every day.

Yours

A stylized, handwritten signature in blue ink, appearing to read 'S. Geyer-Altenkirch'.

Sandra Geyer-Altenkirch  
Managing Director

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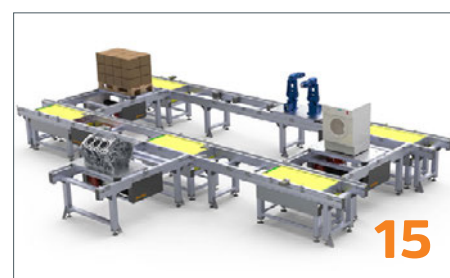
## COVER STORY MORE PERFORMANCE FOR CHAIR ASSEMBLY

Because demand for a popular office chair assumed unforeseen levels, the Interstuhl Group had to increase its productivity. This was only possible with a new assembly line. The solution was provided by a highly modified UMS system from MiniTec.



## ERP LINK FOR WORKER ASSISTANCE SYSTEM

MiniTec has been specialised in individual, ergonomically optimised workstations for many years. These are supplemented with MiniTec SmartAssist. The digital worker assistance system now also has a link to ERP and MES solutions.



## TRANSPORTING AND ASSEMBLING

MiniTec extends its conveyor technology product range to include the FMS Max assembly system, a further development of the tried and tested FMS transport system. FMS Max can transport workpieces that are three times heavier than with the solution to date.



# TRADE FAIRS AND EVENTS

In the autumn, MiniTec will again be present at several important trade fairs and invite people to attend its own interesting events.



all about automation, Düsseldorf  
17 to 18 September 2025  
Areal Böhler in Düsseldorf, Stand 709

The theme of the regionally focussed trade fair for industrial automation is systems, components, software and engineering for industrial automation and industrial communication.

In Düsseldorf, MiniTec will be presenting automation solutions and MiniTec SmartAssist, the innovative worker assistance system.



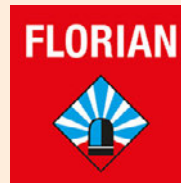
Practical day for workshops and daaap  
Network Meeting 2025  
7 October 2025, MiniTec head office,  
Schönenberg-Kübelberg

MiniTec invites you to take part in a practical day and daaap Network meeting. The event theme is "Digital assistance for more participation". As an active partner of the daaap Network, we support participation of the disabled in working life by providing innovative solutions. MiniTec SmartAssist, our worker assistance system, takes centre stage. Inspiring talks, insights from practice and interesting live demonstrations await visitors. The event is aimed at employees of workshops for the disabled (WfbM) – workshop managers, work schedulers, carers and the employees themselves of course. Attendance is free. If you are interested, you can register for the event via our website.



InHouse, Berlin, 19 September 2025,  
Melitta-Schiller-Straße 18, 12526 Berlin

For the first time ever, MiniTec will be holding its InHouse trade fair at the company's new premises in Berlin. Visitors can find out about the services offered at the Berlin location, which range from machining shafts and machine components to the design and assembly of individual parts and the construction of complete machines and equipment. If you are interested, you can register for the event via our website.



Florian trade fair  
9 to 11 October 2025,  
Messe Dresden, Hall 1, Stand H8

MiniTec will be presenting solutions for the firefighting technology sector at the trade fair for fire safety, rescue and civil defence. Topics include breathing apparatus workshops, mobile container racks, vehicle fitout and equipment storage.



An up-to-date overview of all trade fairs  
can be found at  
[www.minitec.de/service/messen-events](http://www.minitec.de/service/messen-events)





# MORE PERFORMANCE FOR CHAIR ASSEMBLY

Because demand for a popular office chair assumed unforeseen levels, the Interstuhl Group had to increase its productivity. This was only possible with a new assembly line. The solution was provided by a highly modified UMS system from MiniTec.



Tieringen is situated in the middle of the Swabian Mountains. The recognised resort has just over 1000 residents and is a district of the town of Meßstetten. The headquarters of the Interstuhl Group is located in these beautiful surroundings. With plenty of passion and innovative strength, over the past 60 plus years, the family-run company has blossomed into an internationally successful provider of individual product and room solutions and services. Around 800 people work in Tieringen, a further 350 at production locations and in sales offices worldwide.

With the three strong brands, Interstuhl, Bimos and Backforce, the products of the Interstuhl Group are not only used in the office environment but equally in production areas, in laboratories and for gaming. Purchasers can also be individual customers; however the company mainly delivers to major customers in all areas of industry and administration. The range of chair models and furniture is characterised by a large number of options. For the seating, for example, there are different material qualities, star bases and castors as well as backrests with mesh or upholstery as high or low back versions. Many of these features can be combined with each other and thus marry ergonomics with the individual needs of the customers.



"It was our first project with MiniTec and we have only positive feedback", say David Rieble (left) and Sascha Seemann.



The EVERY is one of the most successful office chairs of Interstuhl.

### More efficient final assembly required

The production depth of the Interstuhl Group is considerable, many of the furniture manufacturing steps take place in-house. It has its own steelwork department, where various basic parts are welded and cut or stamped. They are also coated in the company's own production halls. It has its own fabric store, in which pre-cut pieces are produced. These are forwarded to the sewing room and from there to the upholstery workshop. The upholstery subassemblies and backs are created in the preassembly from foam back and seat parts especially produced in the foam conversion department. And the final assembly and dispatch also take place in Tieringen, of course. This is where the individual components are packed partially dismantled or completely assembled and are then sent by the company's own forwarder.

The EVERY office chair had been put together on one of the assembly lines for years. It was becoming increasingly popular and developed into a true "high runner". The ever-expanding demand ultimately stretched the system to its limits, equipment designer David

Rieble said: "The assembly line was never intended for these quantities. It operates with gravity. The workpiece carriers were trolleys, which moved independently from left to right on inclined rails and so connected the individual assembly stations. The chair itself was also given a facelift. However, the belt was designed for the old model."

Against this background, the Interstuhl Group decided to replace the system with a new, significantly higher-performing installation. It should no longer operate by gravity and instead have its own drive. Due to the confined space conditions, another requirement was for the system not to need much space and for the workpiece carriers to move in a circle.

### UMS pallet circulation system as the solution

In the search for a suitable provider, they quickly came across MiniTec, said Sascha Seemann, who also works in the Interstuhl Group's equipment design department: "There are many suppliers who offer such a pallet transport system on economically interesting terms."



The system has five assembly stations.

MiniTec convinced the Interstuhl Group with the UMS pallet circulation system. This is an extremely space-saving solution in which the empty pallets are returned underneath the conveying level. The pallets cannot only be accumulated on the conveying level, but also on return of the unloaded workpiece carriers. A characteristic feature of the UMS series is a continuously circulating chain, which conveys the workpiece carriers in a circle.

However, during the project discussions it quickly became clear that the basic UMS concept did not exactly match the Interstuhl Group's requirements 1:1. For example, during assembly, the backrests of the chairs protrude downwards where they could collide with the returning pallets underneath the system. Furthermore, the workpiece carriers have a quite large baseplate that provides sufficient space for the complete chair with seat during assembly. The armrests also have a certain space requirement in this situation.

The project team therefore saw itself confronted with the challenge of meeting the needs of the particular

circumstances of the workpieces while taking into consideration the confined space conditions. To retain the standard UMS concept, the system cross-section would have to be dimensioned considerably larger, however, this was eliminated due to the spatial circumstances.

The solution was finally reached by highly adapting the UMS system to the Interstuhl circumstances – in the form of a combination of different measures

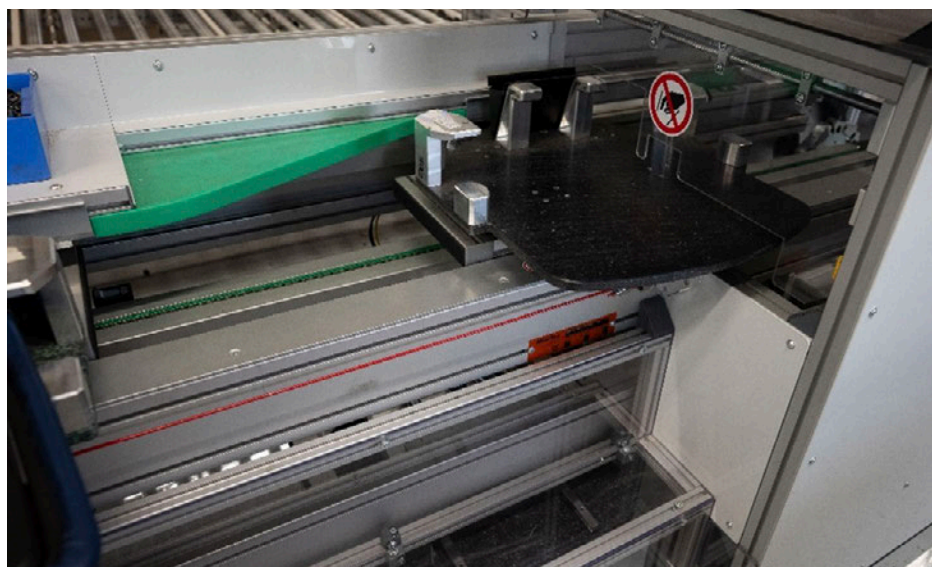


Foot switch for moving on the workpiece carriers.

### Extensive adjustments necessary

Whereas a UMS normally stands on feet that are mounted at certain spacings on a profile frame as support, a solid C-section frame was designed, which formed the load-bearing structure of the system at both ends. As a result, the guides of the pallets in the bottom area no longer needed a load-bearing function – both in combination saved an enormous amount of space.

When the workpiece carriers reach the top after circulating, they are pushed out at the front by a guide, so that the chair with fitted armrests can be conveyed without colliding. Another advantage is that the worker does not have to lean so far forward. And as soon as the assembly is completed, the table can retract again and be



When the assembly is finished, the workpiece carriers are retracted again via a special guide (green), which saves space.



carried downwards. David Rieble explained: "In this way, we have also saved somewhat in the overall width of the system."

Another large requirement was that the chair no longer had to be raised after the final assembly before it is turned over, but can now easily be pulled down from the workpiece carrier, Rieble said: "That was unfortunately not possible before, because when armrests were involved, they either collided with the system or with the belt. We therefore designed the workpiece carrier with the mounting plate and brackets ourselves, so that this is now possible. Furthermore, the brackets are designed so that they can also be adapted to other chair models."

These and other adaptations ensured a coherent, tailored system design, which optimally meets the Interstuhl requirements.

#### Well thought out control for safety and convenience

The installation basically has five assembly stations, whereby only three are currently used, by two employees. At the beginning, the chair is pushed in. Then the armrest carriers, the mechanism and the (optional) armrests are attached, followed by the assembly of the back carrier. Finally, the chair column with the star base is mounted.

As soon as a worker has ended one step in the workflow, they send the workpiece further by operating the foot switch. After completion of the assembly, the chair is removed and the empty workpiece carrier is retracted by operating the foot switch. In addition to the foot switch, control via the display is also envisaged in the future. The display shows the workers the orders and informs them which chairs they must assemble.

An emergency cable pull is attached at working height for occupational safety. If the workpiece carriers move on and collide with something, it is not a problem thanks to the force resistance – they are effectively braked and then simply remain stopped. Safety is also ensured on retracting and extending out of the housing: There is a flap with a sensor, as soon as anything touches the flap the system stops.

#### Productivity and flexibility improved

After a few months of operation, the advantages of the new system are already noticeable, Rieble says: "The feedback from our departmental managers is consistently positive. They are very satisfied with the workflow. We are also



The emergency cable pull is easy to reach in case of malfunctions.

getting better compared to the old system regarding speed and productivity. The workers are also satisfied and praise the simplification due to the automation. We are also now better with regard to flexibility. Thanks to the availability of five workplaces, for example, we can also assemble something else occasionally, which has been added to the job list at short notice. As mentioned, it is also easily possible to change the layout of the workpiece carriers so that we can produce other models on the system."

### MORE PRODUCTIVITY WITH NEW ASSEMBLY LINE

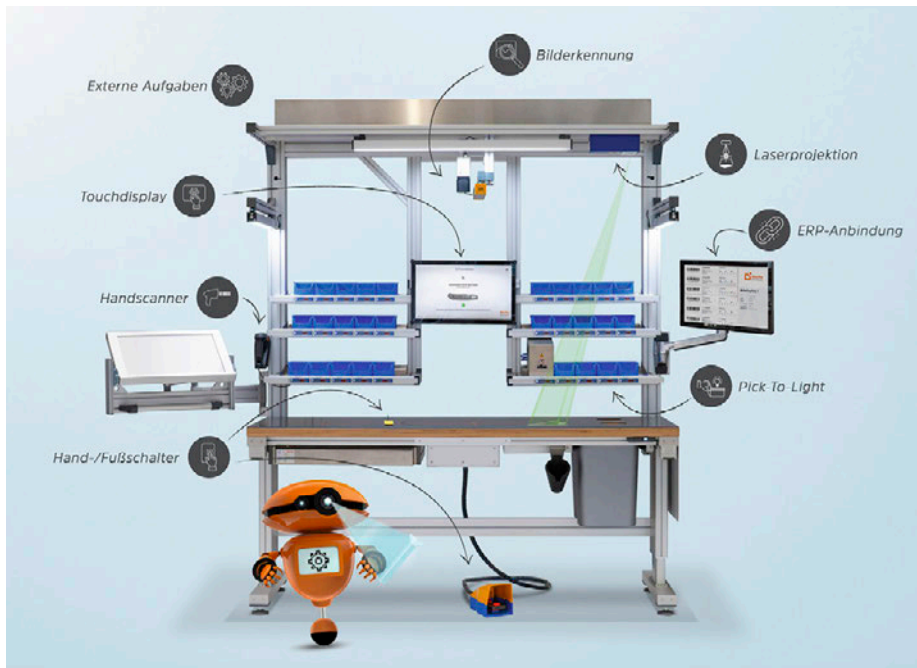
The Interstuhl Group team also found working with MiniTec to be very pleasant, Sascha Seemann says: "It was our first project with MiniTec and we only have positive feedback. We always consulted and coordinated with each other promptly via online meetings or by phone. The installation was therefore completed very swiftly. The same applies to the fine detailing of certain features such as the described retraction and extension system. Ideas were always contributed by both sides and there were no cooperation problems."

They are correspondingly open to further projects in the future. For example, if a further installation of a similar type is needed. The Interstuhl Group is also interested in MiniTec SmartAssist. They can well imagine using the worker assistance system for the preassembly of the back or even the seat assembly.



More info about the Interstuhl Group and its products can be found here.

# ERP LINK FOR WORKER ASSISTANCE SYSTEM



**MiniTec has been specialised in individual, ergonomically optimised workstations for many years. These are supplemented with MiniTec SmartAssist. The digital worker assistance system now also has a link to ERP and MES solutions.**

MiniTec SmartAssist is well on the way to establishing itself as a standard solution for interactive support of manual work processes – such as in the assembly or order picking departments. Customers increasingly enquired about integration in ERP and MES solutions. This definitely makes sense, as by linking order management and worker assistance, information flows can be simplified, throughput times shortened and processes made significantly more efficient.

## **Flexibility instead of one-size-fits-all solution**

The challenge: The market offers a wide bandwidth of ERP and MES systems – with very different data

exchange requirements. MiniTec therefore opted for a more flexible approach and developed the new plugin module – an open development platform which can be individually adapted to the customer's respective software environment.

“With the plugin module, all options are open to us to address the individual requirements and systems of our customers – and to do so with reasonable effort”, explained Markus Kaiser, responsible for the development of MiniTec SmartAssist. “This flexibility is just as important for us as it is for the users of our assistance system,”

## **From the order to assembly – in real time**

For example, order-related information such as the required shaft length for a linear unit can be directly included in the respective assembly step and displayed to the worker on the screen. Especially for manufacturers of products with variants and numerous configuration options, this is a real gain in efficiency.

Another potential application is automatic quantity transfer: The quantity defined in the order is transmitted to MiniTec SmartAssist, the system counts each finished product and ends the process automatically as soon as the order is completed. A differentiation is also made between good parts and rejects. The results are then fed back into the ERP system. It is also possible for a label to be printed automatically for each finished product at the same time – an example of simple integration of other peripheral devices.

## **Future-proof through openness**

The open architecture of the module not only allows linking to classic ERP or MES systems, but also to other software solutions. Equally, the integration of hardware such as nutrunners, scales, I/O modules (light barriers, signal towers, sensors, etc.) or customer-specific components. It can even be used to control and coordinate process operations between different work tables.

This makes MiniTec SmartAssist an even more diverse component for digital production processes – completely in line with Industry 4.0.



# MINITEC SMARTASSIST IN PRACTICAL CHECK

Since March, companies and workshops have had a particularly attractive opportunity to get to know MiniTec SmartAssist: With SAM ("SmartAssist assembly table") you receive a ready-to-use assistance workplace to try out – consisting of a compact work table and an installed, ready-to-use assistance system including pick-to-light and other modules – free of charge. You can therefore try out the solution extensively under real practical conditions and see the advantages for yourself.

The offer was met with a very positive response and led to numerous applications for the available SAM tables. These have now been installed for several customers – and we asked two of them for an update.



Jonathan Schneider, head of the small parts assembly department at Demmler (left) aims to use MiniTec SmartAssist to achieve independent training on the job and support during assembly for his employees – and to do so independent of language.

One test participant in the industrial sector is the company Demmeler Maschinenbau in the Swabian town of Heimerdingen. Among other things, the company has specialised in 3D welding table and clamping systems, which are mainly needed in steel construction. The SAM table is used in the small component assembly of the 3D clamping systems, says Jonathan Schneider, head of department for this area: "We want to use MiniTec SmartAssist to train employees on the job, as well as to provide them with continuous support. The intention is to more simply explain the steps and hand movements required for the assembly to the workers, without many words, more in pictorial form. They can therefore learn how to assemble a complex assembly through independent study and use the system to help them whenever they are uncertain. By working with images instead of text we are also language-independent and can also assign people with limited German skills – an important aspect in times of skilled labour shortages."

The second trial user presented here is located in a completely different environment: The BruderhausDiakonie is a socioeconomic enterprise based in the town of Reutlingen. MiniTec Smart Assist is currently used here in the workshop for the disabled in Oberlinstraße and the intention is to try it out in other workshops in the region. MiniTec Smart Assist is used in the order picking. "The job involves filling assortment boxes of oil drain plugs for vehicle repair shops", reported production manager Robert Kächele. "36 individual components



Group leader Eyad Diab of the Bruderhaus-Diakonie (on the right in the photo) expects the system to achieve more participation in working life for the disabled.

such as ring seals and screws are sorted into the boxes in 42 steps. Until now, only a very limited group of employees were able to fill the assortment boxes. The worker assistance system enables a larger group of people to complete such complex tasks. Without the system's support they would not be capable of doing them. With the assistance system they are better able to participate in working life. This enables us to produce more complex orders for our customers in industry."



More info about the SAM campaign can be found here: [www.minitec.de/effizienz-auf-probe](http://www.minitec.de/effizienz-auf-probe)



# INDIVIDUAL LABORATORY EQUIPMENT

**The flexibility of the MiniTec modular profile system makes it particularly interesting for certain applications. The best example is laboratory furniture: Here there are very few “off the peg” products, as laboratories are generally individually designed and therefore need tailor-made equipment. The laboratory fitout company Thulab has therefore opted for the MiniTec modular system for many years.**

Thulab GmbH operates as an independent family business that is active in consulting, design through to ready-to-use laboratory facilities and construction of equipment enclosures and customised solutions. The specialist in the Central-Hessian town of Dornholzhausen offers a wide range of custom-built products for laboratories. They include enclosures for all types of laboratory equipment (for example, mass spectrometers, centrifuges, robots, etc.), laboratory fume cupboards, accessible cabins, laboratory benches and special solutions such as partitions, filling

stations and much more. The products are used for different purposes. The extraction equipment is for occupational safety and protection from hazardous substances, the dissipative enclosures and benches focus on electronic component product protection, supply air enclosures with filters and laminar flow boxes are also for product protection. The aim can also be to make work easier by providing individual solutions and integrating resources such as a crane in a product. The customers are mainly in industry and research, although purchasers also include hospitals and

certain state institutions such as the police and Bundeswehr.

MiniTec plays a central role for Thulab, says the Managing Director, Helmut Uhlmann: “Thanks to the many



Tabletop enclosure with exhaust air rear wall and LED flat panel lighting



possibilities and easy design with MiniTec, we are able to offer every customer a product that is adapted to their personal requirements."

To respond to the different requirements flexibly, Thulab has a range of different construction elements, designs and methods, from which a one-off is compiled for each project.

Typical construction elements are:

- Extracted double-wall roof parts and rear walls with manually adjustable ventilation grilles
- Sashes with counterweights
- Utility ducts for all kinds of installations
- Table frames
- Soundproof cabinets, e.g. for vacuum pumps or cooling water units
- All kinds of revolving doors
- Housings for filters and fans

#### **MiniTec system with numerous advantages**

Uhlmann explained: "For us, the MiniTec profiles have become indispensable, especially because of their high degree of flexibility and plain design. It is great to have closed profile surfaces available. This is important in laboratories, not only for visual reasons but also for hygiene aspects. The small radii of the profile edges are another important aspect, which is positively noticeable compared to other manufacturers." At Thulab, the profiles are comprehensively machined and modified. For example, the laboratory experts mill electronic components or saw additional grooves in the profiles in order to integrated additional infills with various thicknesses.

For Uhlmann, the MiniTec modular system has many different advantages: "The components can be easily combined with other systems such as Vitris or Häfele sliding doors. An important advantage of the MiniTec profiles or the connectors is also that they can be fitted easily and without much effort. New employees therefore also do not need much time to learn this. For us it is also important that there are ESD connectors with claws for good earthing. We can therefore also use MiniTec profiles for enclosures in potentially explosive atmospheres."

And last but not least, the managing director also has words of praise for the iCAD Assembler: "The software is easy to understand and enables us to save a lot of time, as we have to draw each new product. The iCAD Assembler makes our job preparation very much easier."



Device enclosure for mass spectrometer with controlled exhaust air and sound insulation.

Virtually all devices used in laboratories have negative side effects such as unpleasant background noise, uncontrolled heat emission or pollutant release. Apart from 1 – 2 services a year, the devices run continuously 24/7. Accordingly, the impact on laboratory employees is not insignificant. The Thulab enclosures that especially address and are designed for these problems provide remedies across the board, a pleasant working climate, offer personal protection and also protect the often very expensive laboratory equipment. Cleverly perfected supply and exhaust air units, silent fans controlled by thermostats, prevent overheating inside the enclosures.



Height-adjustable ESD table with adjustable shelves and integrated lighting.

Electronic devices are assembled at this table. The idea is always to combine several functions in one product in order to save space and to increase the productivity of the work operations. Especially in laboratories, there is often little space. Through individual and flexible design, we were able to find a solution that also takes into consideration the necessary product protection.

# EVERYTHING IN VIEW WITH LED

**Optimal workplace lighting is a decisive factor for work quality and the well-being of employees. Here MiniTec opts for a tried and tested LED light system, which is individually adapted to the workplaces.**



LED profile luminaires ensure optimal light.

Correct and adequate illumination of the workplace is a factor in workplace design that cannot be ignored. Incident light specifically has enormous effects on the well-being and health of employees. If the workplace is too dark or illuminated too brightly, it can lead to long-term damage of vision. Whoever can see well can also carry out their tasks safely and tires more slowly.

## LED profile luminaire

MiniTec offers the LED profile luminaire, which allows comprehensive lighting for every workplace. With a life of up to 50,000 hours, this luminaire is extremely long-lasting and virtually maintenance-free. Its high energy efficiency helps to save energy costs while the dimming function enables flexible adjustment of the light intensity.

Thanks to the proven MiniTec modular principle, the profile luminaire can be easily integrated into the profile frame construction. It can be installed with all the fastening elements in the modular profile system. A particular highlight is the possibility of ordering special lengths, which makes it ideal for different size work areas. An "outdoor variant" can also be used on machines such as lathes and milling machines.

## LED system workplace luminaires

These luminaires are characterised by their robust and compact housing made of natural anodised, self-supporting aluminium profile. Thanks to the direct current operation (DC), they offer flicker-free light, which is particularly important for longer work shifts. The luminaires are optimal for workplaces in which uniform, glare-free lighting is needed.

Apart from the high-quality profile lights, the MiniTec shop also has a large number of accessory materials with which a lighting solution can be individually adapted.



*The right lighting is an important factor for work quality and the well-being of employees. Here you will find all important components for a perfectly lit workplace:*  
[www.minitec.de/beleuchtung](http://www.minitec.de/beleuchtung)







# TRANSPORTING AND ASSEMBLING

**MiniTec extends its conveyor technology product range to include the FMS Max assembly system, a further development of the tried and tested FMS transport system. FMS Max was especially developed for serial assembly and production processes and can transport workpieces that are three times heavier than the solution to date.**

The use of conveyor technology solutions is generally determined by the requirements of the transported goods and the areas of use. MiniTec has specifically developed the new FMS Max assembly system for use in serial assembly and production processes. It is suitable for both manual and automated production processes. Thanks to its modular design, the system can be flexibly integrated into different line configurations. Its high load-carrying capacity makes the FMS Max the ideal solution for the transport of heavy and large-volume components in demanding industrial environments. Based on the proven FMS transport system, FMS Max can now transport workpieces that are three times heavier, namely loads of up to 700 kg per metre section.

## **More efficient material flow**

The workpiece carriers or pallets are transported on accumulation roller chains, which enables smooth and

efficient material flow. The distance between these accumulation roller chains can be adjusted to the project-specific pallet size. The transport system

## **FMS MAX FOR MANUAL AND FOR AUTOMATED PROCESSES**

can therefore be optimally matched to individual customer requirements and offers diverse applications in all kinds of different industrial environments. The pallets can be stopped by pneumatically or electrically operated stoppers, which are available in various sizes and with damping. Indexers or positioning units with high precision and repeat accuracy are available for automated processes with robots or machine tools.

In addition, all assembly lines of the FMS Max system are compatible with the MiniTec aluminium profile system, which enables fast, modular and economic integration in other system solutions from the MiniTec portfolio.

Important features for use in practice include easy access to the workpiece carriers (from all sides), exact positioning of the workpiece carriers by centring bushings and the simple infeed and discharge movements, as well as the possibility of changing the transport direction. The integrated lifts allow vertical lifting with pneumatic or electric drive. The workpiece carriers can also be accumulated and buffered. FMS Max needs little space and can be easily integrated into the material flow and extended.

# MADE-TO-MEASURE CONVEYOR BELTS

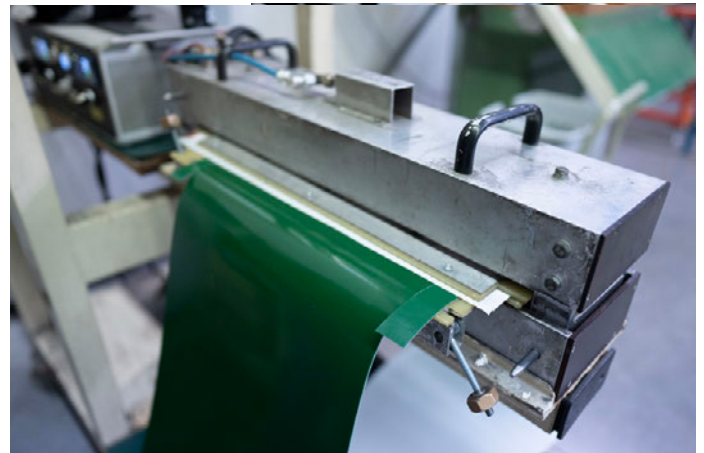
**Belt conveyors undertake most of the conveying tasks in lightweight conveying technology and in particular they are very suitable for in-house transport of packaged and unpackaged unit loads. MiniTec offers conveyor belts for a large number of applications, both as standard and customised versions. An extensive stock also enables deliveries at short notice.**

A large number of conveyor sections are used for in-house material flow. They are often equipped with conveyor belts. These endless connected belts are usually made up of various layers, often a combination of fabric or steel ropes as tensile reinforcement and a rubber coating as protection and to improve grip. Materials and surfaces are defined according to the requirement – for example, oily machine parts have completely different requirements to meat in the food industry.

MiniTec offers appropriate solutions for industry, including food and pharmaceutical producers, and a complete service for conveyor technology. Apart from professional advice on precise-fitting solutions, an extensive stock enables short delivery times.

## Well connected

End-connected conveyor belts from MiniTec are the first choice for a perfect fit and therefore a long life. In general, the belts are available on reels, are cut to the right length and then joined with a joining press. The end connection of belts, ensures high belt performance and safe and reliable operation of the conveyor system.



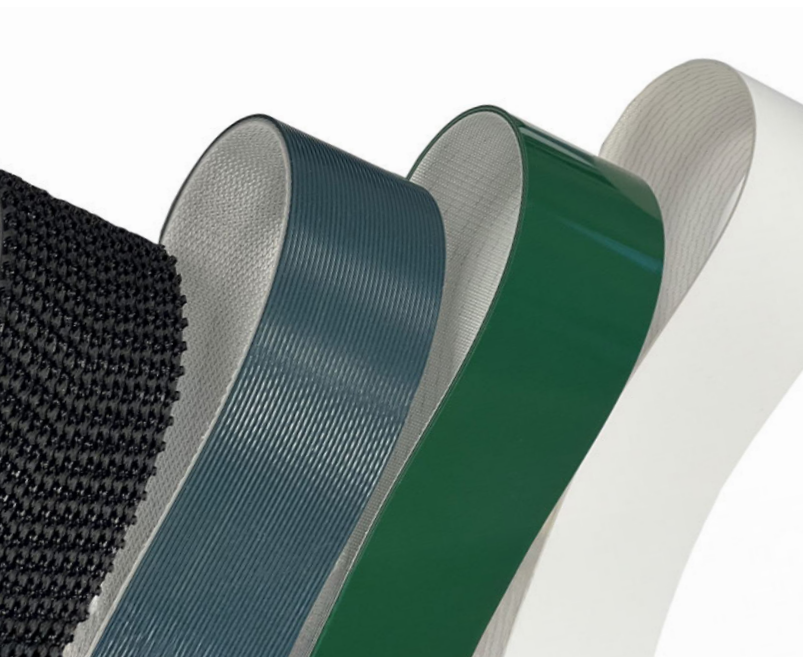
A joining press ensures stable end connections.

## Enquiry via the website

The most frequently requested belts are available as items directly on the website. The enquiry can also be made conveniently via the website for special requirements. In this case, article 29.5019/0 ("General conveyor belt") must be selected and the particular wishes and specifications simply noted in the comments field. The required width and endless length of the belt must be provided. Depending on the series, there is a formula for calculating the latter measurement, which is described in the technical data.

Overview of the conveyor belts:

Article No.	Description
29.5019/0	Conveyor belt, general
29.5019/1	Conveyor belt, black PVC, antistatic
29.5019/2	Conveyor belt, petrol PVC, grip
29.5019/3	Conveyor belt, petrol PVC, antistatic
29.5019/4	Conveyor belt, green PVC, smooth, antistatic
29.5019/5	Conveyor belt, blue PU, matt, antistatic
29.5019/6	Conveyor belt, white PU, matt, antistatic
29.5019/7	Conveyor belt, white PVC, smooth
29.5019/8	Conveyor belt, green PU, smooth, antistatic
29.5019/9	Conveyor belt, transparent fabric, antistatic







# OFF-ROAD MOBILE CONTAINER RACKS

**MiniTec offers a diverse range of products for fire services and emergency services. A new product is the off-road mobile container rack, which was developed for demanding call outs to places that can't be accessed via the paved public road network. It sets new standards with well thought out technology, stability and flexibility and maximum off-road capability.**

Due to increasing extreme weather conditions and natural events, an increasing number of emergency services need mobile container racks that can also be used in rough terrain and in adverse environmental conditions. Against this background, MiniTec has developed a new off-road mobile container rack, which was presented at the RETTmobil

trade fair in Fulda and attracted a lot of attention. Developed for use on unpaved roads, the new off-road mobile

services, as material is also transported off-road in many industries.

## **Other features of the new off-road mobile container rack:**

- Dead man's brake according to AGBF technical recommendation
- A special brake with central locking device enables safe parking and fixing of the container – even on sloping terrain.
- An integrated towing module enables convenient pulling of the container if the situation requires.
- High load capacity of up to 600 kg and with 310 mm, an astonishing ground clearance with which obstacles and uneven terrain can be easily mastered.
- Low self-weight (total weight less than 82.5 kg, without body) thanks to light-weight components.
- The body can be individually adjusted – virtually unlimited design possibilities for different areas of use.
- Complete set in the first step: To start off with, the container is offered as a complete set.

## **SECURE TRANSPORT FAR FROM PAVED PUBLIC ROADS**

container rack benefits from well thought out technology and maximum off-road capability. It is based on our mobile container system, tried and tested over many years, and has repeatedly excelled in practice.

Thanks to its modular structure, it offers virtually unlimited possibilities for individual fitout and adaptation. Large, airless wheels with independent suspension ensure superior handling on uneven terrain. The stable aluminium frame itself ensures absolute stability under high loads. Despite its robust design, the container remains surprisingly nimble and can be manoeuvred precisely in teamwork. A real all-rounder that reaches places far beyond the limits of other mobile container racks. And not only for emergency



More info at  
[www.minitec.de/offroad-rollcontainer](http://www.minitec.de/offroad-rollcontainer)





# WORKER ASSISTANCE SUPPORTS PARTICIPATION

**MiniTec SmartAssist is increasingly being used, especially in workshops for the disabled too. There it is found that the assistance system not only provides support for training and increasing quality, but also opens up new possibilities for work participation.**

Workshops for disabled people (WfDP) are an area of use for which the MiniTec SmartAssist really is predestined. For here the approach to the solution, with which the different disabilities of employees can be addressed individually, takes particular effect. Above all, because the group leaders with their background knowledge can use the editor to create the instructions and the aids used themselves.

One of the very first MiniTec customers from this environmental was the Nieder-Ramstädter Diakonie (NRD) foundation. For more than 125 years, the NRD has been committed to the disabled as well as children, young people,

families and the elderly. Its fields of activity include many social areas. The NRD is active in more than 40 locations in Hesse and Rhineland Palatinate and has around 2,700 employees. Around 150 employees with different physical and mental disabilities now work in the Rheinhessen Workshop (RHW) in Wörrstadt.

## **The goal is more efficiency and more participation**

The Rhine-Hessen workshop assembles test sets for medical laboratories. In this process, different materials per set are placed in a resealable bag. It is important that all materials are included in the bag – not such an easy undertaking as



it involves around 300 different sets. Which makes the support provided by the MiniTec assistance system all the more valuable.

The project manager, Stefani Hirschenkrämer, had clear ideas for the use of MiniTec SmartAssist from the outset: "On the one hand, our goal is was to use the system to reduce the training time. On the other hand, we wanted to enable employees who already assemble smaller production lines to also be able to carry out more complex work independently." She added: "We had dedicated specifications for the digital workplace, it had to be individually adaptable to the skills of our employees. All order picking work for the many different sets should be illustratable. And easy handling was also important to us. All these wishes are best met by the MiniTec system."

Ergonomics also played an important role. The height-adjustable MiniTec workstation therefore prevents tension and postural defects due to incorrect sitting positions and allows alternating working in a sitting and standing position. There is a recess for wheelchair users, as well as a variable wheelchair clearance height. At the same time, the arrangement of tools, measuring equipment and workpieces is adjusted to the physical circumstances of the employees and their space within reach.

#### **Layout and workflow of the assistance workplace**

The assistance workplace has ten material boxes, of which two larger ones are positioned to the left and right. The remaining eight boxes are directly in front of the employee and have pick-to-light strips. In addition, there is a touchscreen and buttons for interaction with the assistance system. The individual work steps are




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**“OUR GOAL WAS TO  
REDUCE THE LEARNING  
TIME AND TO ALLOW  
INDEPENDENT  
WORKING”**

Project manager  
Stefani Hirschenkrämer

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displayed on the monitor – the prompts to remove material, the target interim status and the target end result.

The visual step-by-step instructions (lights and screen) signal to the employee, which material they must take from which container. To this end, a green LED lights up on the corresponding box. Access control by light barrier ensures that material was actually taken from this box. The representation on the screen then allows a visual check – have I removed the right material compared to that which is displayed on the screen? If the order picking has been correctly completed, the employee receives a success confirmation in the form of a “thumbs up smiley”.

#### **Editor for creating the instructions**

The central component of the MiniTec assistance system is the intuitively operable editor, MiniTec SmartEdi, which allows the Rhine-Hessen workshop to easily design and store the instructions for the order-picking of the test sets in a simple way.

A clear positive advantage for Stefani Hirschenkrämer: “Working with the editor is really easy, just like with PowerPoint. Images and videos can be uploaded quickly and the pick-to-light strips can be configured. The editor is so simple that our employees can use it themselves. To this end, we have created a uniform layout template in which it is clearly defined where images can be uploaded and also which icons (arrows, etc.) are available. To this end, the system is very flexible – for example, if you find that a new interim step is necessary, this can be inserted directly at the workplace.” Especially as far as the Editor is concerned, the work scheduler sees clear advantages in the MiniTec SmartAssist compared to other systems.

The benefits of the solution are perfectly obvious for Stefani Hirschenkrämer: “The system opens up new work participation opportunities for our employees. Together with specially adapted workplaces, they are enabled to carry out work independently, and can do so after a short familiarisation period.” She added: “MiniTec SmartAssist allows faster learning of work processes and ensures more self-awareness among our employees. Last but not least, our skilled employees are relieved as they now no longer have to provide support and advice during the whole familiarisation process.”

# FOCUS ON SUSTAINABILITY AND EFFICIENCY



## MiniTec was again certified to EN 16247-1 Energy Management and to EN ISO 14001 Environmental Management.

Environmental and energy management certifications help companies to improve their sustainability and to meet the legal requirements. This has been MiniTec's standard since the outset. Achieving EN 16247-1 for energy management and EN ISO 14001 for environmental management underline the company's consistent commitment to sustainable use of resources and ecological responsibility.

"For us, the certifications are not only formal verification, but also an expression of our daily action and thinking," explained the Management Representative Bernd Hoffmann. "We would like to lead as a model and show that economic success and environmental protection can go hand-in-hand."

EN 16247-1 certifies that the company has systematic and efficient energy management. All energy consumption in the company is precisely analysed, potential savings are identified and

continuous improvement processes are initiated. In addition, the certification to EN ISO 14001 sets a strong example of active environmental management, from waste avoidance to low-emission production processes through to a sustainable supply chain. MiniTec has been certified for its environmental policy since 2000 and has therefore been able to continuously improve its environmental protection and increase the level.

### **Audited environmental and energy competence**

"For our customers, this double certification means that they can rely on audited environmental and energy competence," continued Bernd Hoffmann. The region also benefits from this: "We not only invest in efficiency, but also in the future of our environment and our location, to save energy and to save the environment."



Bernd Hoffmann, Management Representative at MiniTec.

MiniTec has also been certified in quality management to EN ISO 9001 since 1996 and to EN ISO 45001 for the occupational health and safety of its employees since 2006. This is also reflected in the high social standard of MiniTec, to provide pleasant, ergonomic and healthy workplaces for its employees.

The company's efforts to achieve the 17 sustainable development goals of the United Nations (UN) round off the picture. Here too, since 2021, MiniTec has taken a lead role by adopting the German Sustainability Code (DNK) on a voluntary basis; this reports transparently about the sustainability of MiniTec.



# 20 YEARS' MINITEC UK



Anniversary in atmospheric ambience.

In July, MiniTec UK celebrated its 20-year existence in the historic Basing House Great Barn in Old Basing, Hampshire. Employees, customers, suppliers and partners were invited. In magnificent weather, fabulous food and a breathtaking event location, the afternoon became something very

special. The guests were welcomed with an aperitif on arrival, followed by a guided tour through the historic ruins of Basing House.

Gary Livingstone, Managing Director of MiniTec UK, recalled the past two decades, from its modest beginnings in 2005 to its present-day position as



Gary Livingstone, Managing Director of MiniTec UK, and Sandra Geyer-Altenkirch, Managing Director of the MiniTec Group.

a reputable player in British industry. "From the team to date to our customers and suppliers, everyone has played a role in our success", he emphasised. Apart from appreciation of the past, the event also took a look into the future, as MiniTec UK continues to invest in innovation, sustainability and regional partnerships.

## MORE PRODUCTIVITY IN THE MEASUREMENT TECHNOLOGY INDUSTRY

MiniTec UK designed and built a tailor-made workplace solution for its customer Taylor Hobson, which improves productivity significantly. The company manufactures solutions for contact and non-contact surface and shape measurement.

Precision measuring devices are put together at the assembly workplaces. Perfectly dimensioned FIFO roller conveyors/frames are used to increase production efficiency considerably. Everything was developed to the company's requirements and assembled at MiniTec UK.



Tailor-made workplaces provide 33 percent more productivity.



# LONG-SERVICE EMPLOYEES AT MINITEC

"It is with deep gratitude that I look back on 10 years full of opportunities and joint successes. I am proud to be part of the awesome MiniTec family and look forward to a joint future."

*Sebastian Stein*



"A quarter-century now lies behind me, with many events, experiences and encounters. Despite the size of the company, you feel recognised and valued."

*Guido Regin*



"My journey at MiniTec began five years ago with my training as a mechatronics technician and I am still proud to be part of the MiniTec family. I look forward to further years and new challenges at MiniTec."

*Lena Daniel*

**In this Connect edition we once again present our current long-service employees. In an environment that builds on trust and togetherness, longstanding ties are a real sign for our actively practised corporate culture. All the more reason for us to be pleased about so many committed colleagues who have helped to shape MiniTec for years.**

- Tobias Doll (Director of Production): 30 years
- Thorsten Klaus (Head of Dispatch): 30 years
- Georg Pigalev (Dispatch and Packaging): 30 years
- Adrian Coman (Design): 25 years
- Guido Regin (Engineering): 25 years
- Michael Reuß (Zirndorf Branch Manager): 25 years
- Sebastian Jehle (Assembly): 20 years
- Benjamin Renno (Sales manager): 20 years
- Manuel Stein (Sales): 20 years
- Dino Gregorius (Control cabinet construction): 15 years
- Klaus-Peter Scheer (Preassembly): 15 years
- Stefan Schütz (Assembly): 15 years
- Markus Becker (Preassembly): 10 years
- Roland Gärtner (Engineering): 10 years
- Mike David Moore (Engineering training): 10 years
- Steffen Schmidt (Field-based customer consultant): 10 years
- Lukas Schneider (Assembly): 10 years
- Sebastian Stein (Head of Sales Office): 10 years
- Lena Daniel (Assembly): 5 years
- Lars Rohrbacher (Engineering): 5 years



# BRILLIANT TRAINING START DESPITE THE RAIN



In August we welcomed our new trainees. Six young colleagues began their career development at MiniTec, including three in mechatronics, one industrial clerk, a technical product designer and a cutting machine operator. The weather was rather patchy, but the mood all the better for it. We are very pleased to have you in our team and wish you an interesting, successful and informative training period!

## REINFORCEMENTS IN BAVARIA



New field-based customer consultant  
Richard Schröder

We are pleased to have won over Richard Schröder, an extremely competent MiniTec field-based customer consultant. Since May he has been responsible for the southern Bavaria area (Munich region, Ingolstadt, Regensburg, Passau).

With his many years of experience in mechanical engineering and in automation, drive and production technology, he supports our customers in the selection and implementation of suitable system solutions that are practically relevant and solution-focused.

**MiniTec**  
THE ART OF SIMPLICITY

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## *Efficient, flexible, ergonomic:* **Workstations from MiniTec**

Manual workstations are an integral part of many production processes. This makes it all the more important to design these processes efficiently in order to optimize costs and throughput times while ensuring high quality.

Workstation systems from MiniTec offer the ideal solution for this. The proven profile system with ingenious connection technology guarantees maximum adaptability and expandability. Ergonomics play a central role here – from height adjustment

to lighting, sound insulation, and perfect reach zone design. And, of course, ESD compatibility is also ensured with the appropriate components. MiniTec workstations can be individually configured, scaled, and digitized. This creates productive working environments that are impressive both today and in the future. Contact your customer advisor now or use the workstation configurator!

**Discover the art of simplicity!**

Find out more under:  
[www.minitec.de/arbeite-wie-du-willst](http://www.minitec.de/arbeite-wie-du-willst)

