

Connecting  
man & machine.



*360° solutions and service for your ideas.*

We'll turn your ideas into  
an HMI system.

From basic design to production line.



We'll help leverage your project outcome with our staff of a hundred.

Any product development takes valuable working hours often entailing countless discussions and tests, not to mention the investment outlay. This makes it all the more important to find a business partner that will give your project reliable, high-quality support in implementation.

We have been developing and manufacturing custom HMI solutions to specification for varied and complex systems since 1993. We create application-specific HMI solutions for industry from the development process to series production, solutions in legendary German quality that have set standards.

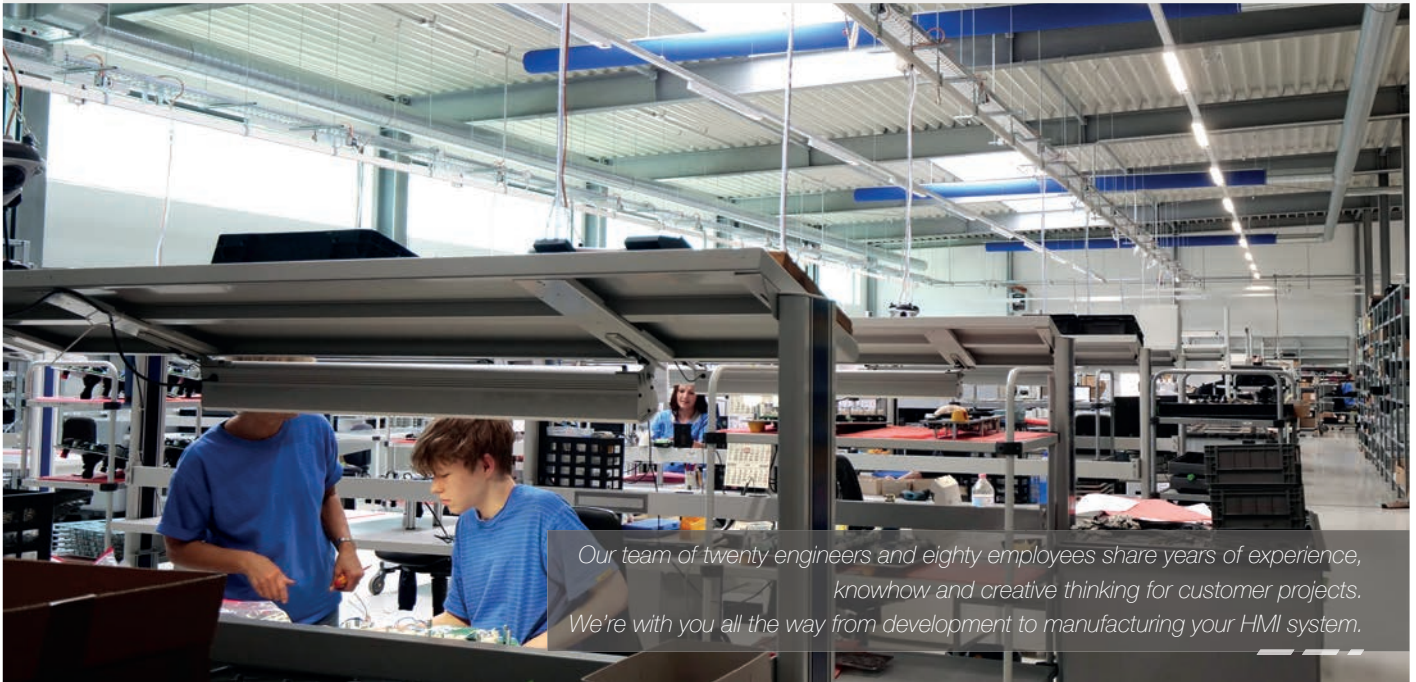
We do this by turning the most demanding expectations and challenges into reality in close cooperation with our customers – this is our mission in life. Challenges eagerly accepted!

Your Griessbach GmbH Team

Contents	3	Solid reasons	9	Systems for equipment and machine engineering
	5	360° solutions – vertical integration	11	One-stop shop
	7	Systems for mobile machines	13	Joint project implementation

*Want to work with us? Welcome to the team.*

## Gaining the upper hand by combining knowledge and working as a team.



*Our team of twenty engineers and eighty employees share years of experience, knowhow and creative thinking for customer projects. We're with you all the way from development to manufacturing your HMI system.*

This is exactly why we're team players. We place great importance on sharing information and close cooperation between your project managers and our engineers and specialists. We aim to be part of your development team.

We keep close contact ensuring basic design implementation or further development to match your expectations, whether we're acting as advisors fully versed in all the ins and outs of your project, taking care of all of the important points along the entire development process, or in daily coordination meetings in the critical phase or regular follow-up appointments.



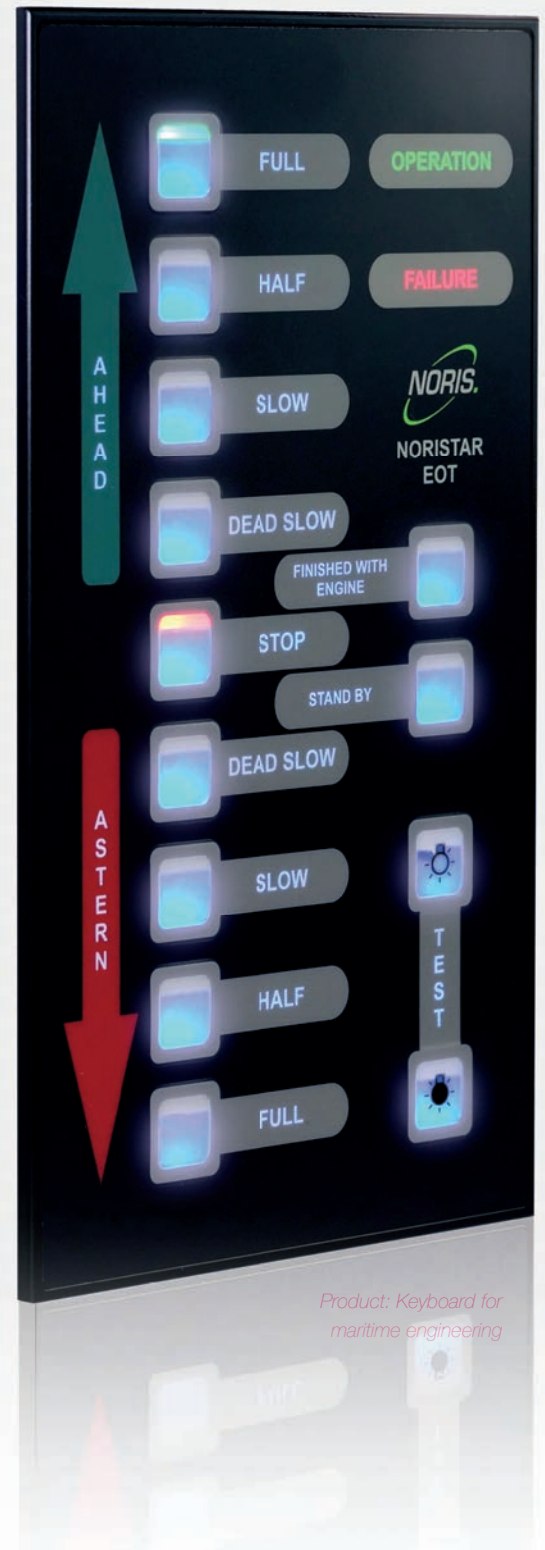


*Clear home advantage:*

# Development and manufacturing in Germany.

Points that speak for our products.

- Electronics and intelligence with ergonomics and design
- Short and medium-sized production runs supported
- Short communication channels for rapid development and manufacturing with design and production in Luckenwalde
- Close cooperation in development and across the entire production cycle
- Quality-critical manufacturing processes such as PCB assembly, membrane printing, cabling and final assembly in-house
- Development teams experienced in hardware, software and mechanical engineering for mobile and stationary applications
- Regular quality audits and production monitoring
- A permanent expert partner throughout the entire project

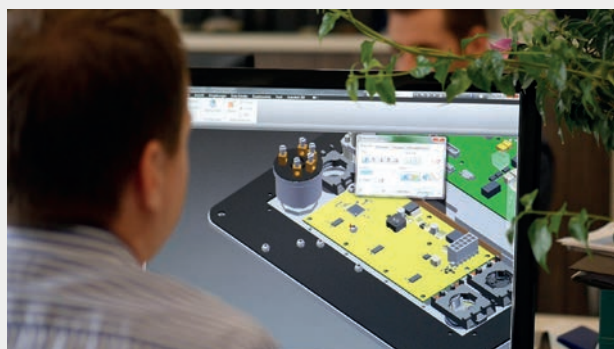
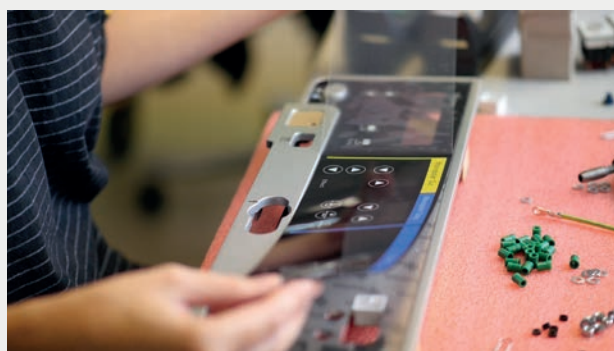


*We'll turn your project into a success.*

## Cost-effective and on time.

We have highly qualified in-house development teams experienced in hardware, software and mechanical engineering for mobile and stationary applications. You will always receive individual and proactive advice and consultation in implementing your ideas and designs.

We have many years of development knowhow and our own tried-and-true solutions tested in the field as well as extensive experience in implementation for our staff to know exactly what it takes to turn a product idea into a success. We're more than willing to try new approaches towards making an even better solution for our customers.



”

*“One thing we especially appreciate about Griessbach is that they are not only specialised in large-scale production runs but also think in terms of project and development. This has made the company a reliable partner for us with their expertise in product development providing us with highly effective support.”*

CEO, EA-Electronic

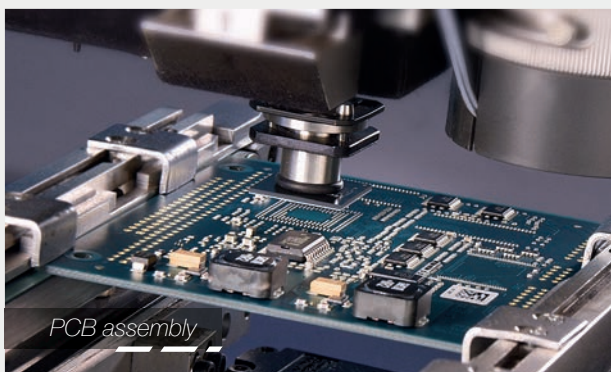
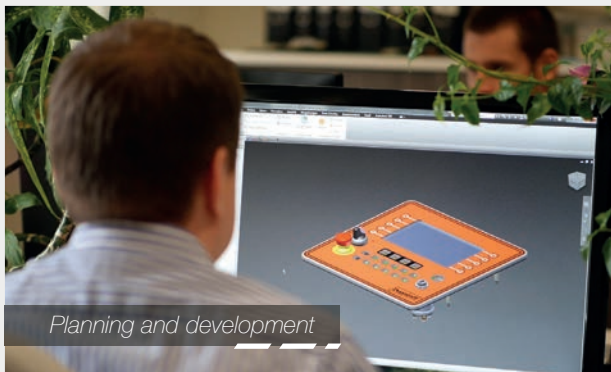


*360° solutions and service for your ideas.*

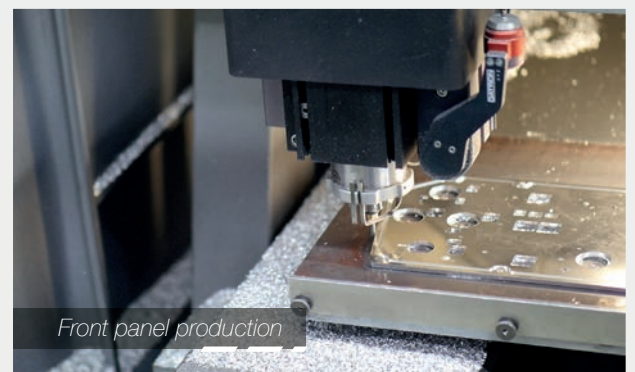
## Working as a team, turning your idea into a success story.

The smoother the development process, the lower the costs and the better the result. We make this happen at our location. This is where we have development, manufacturing and quality control working hand-in-hand. Our developers know all the production options and processes, which we take into consideration during the basic design phase.

This high level of vertical integration gives you full control over the entire process. Alterations to the production process are always possible and manufacturing stages can always be adjusted. We ensure the best possible solutions and quality in production with rapid response times to queries as well as immediate implementation of new findings.



*Product: Switching cabinet for municipal systems*







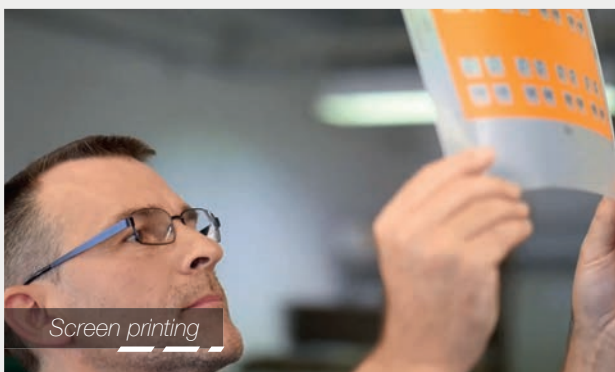
”

*Griessbach has supplied us with a compact and cost-effective CAN module solution tailored to our applications; this has saved us a lot of cabling and assembly work. Easy adaptation to various machine types and simplified implementation of additional features has increased our room for manoeuvre in additional applications.*

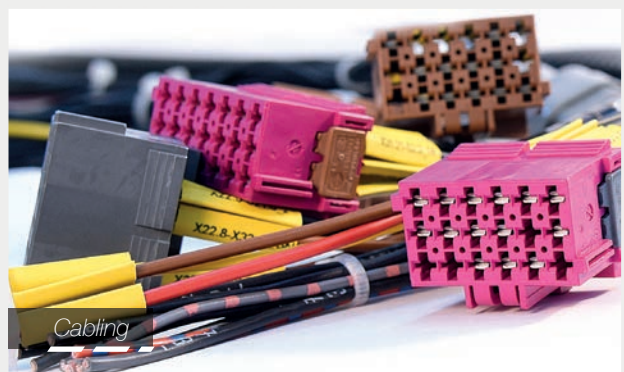
Marketing Manager,  
Maschinenfabrik Bernard KRONE GmbH & Co. KG



Final assembly



Screen printing



Cabling



## Applications

# Systems for mobile machines.

*We'll get you there – assured.*

## HMI systems.

Road construction machines work in extremely hostile environments. This is why HMI systems need to be durable, but also sensitive in operation. They also need to be compact in both design and price while keeping the human-machine interface clear and intuitive for complex manoeuvres.

“We have developed a control panel that uses 90% SMD-printable pushbuttons instead of the usual rocker switches for road-finishing machines. This has led to more cost-effective yet reliable components with a far lower requirement for fitting and assembly. The increase in cost-effectiveness is reflected in attractive pricing.”

HMI Systems Team Leader, Griessbach Luckenwalde



*Keyboard for road construction machines*



*Control panel for road construction machines*



*HMI system for environmental engineering machines*



*H&S at a glance.*

## Display systems.

Bus connection or  
direct control

Straddle carriers and lifts are responsible for handling and stacking containers that can weigh tonnes. These vehicles are especially at risk of tipping while accessing the third or fourth layer of a stack or operating around a curve.

The vehicle operator needs to be warned of any danger of tipping by both visual and acoustic signals. This is why KoneCranes equips its carriers with additional stability indicators.



*Rail vehicle status display*



*Stability indicator for straddle  
carriers and lifts*



*Display for road-finishing machines*



*Display for road-finishing  
machines*

## Applications

# Systems for equipment and machine engineering.

*Delivered ready to connect up.*

## Keyboards and display systems.

We create complete solutions ready for installation including display integration from our own in-house development or from third parties.

Our control panels come with additional controls such as hardkeys for display operation, short-travel push buttons, and capacitive control elements and touch-sensitive buttons according to requirement. We equip display systems with the required CAN, CANopen, J1939, LIN, ISO bus, Ethernet or PROFINET interfaces for integration into machine control.



*Building services keyboard*



*HMI system for medical devices*



*HMI system for safety testing equipment*



*HMI system for printing presses*







*Looking for an all-round solution? All our solutions come customised as standard.*

## PROFINET-based keyboards.

Control panels and units increasingly need to be integrated into a variety of bus and network designs; we have developed a 32-bit keyboard controller with a TPS1 interface controller using the PROFINET standard specifically for control panels.

This controller can be adapted for a wide variety of control panels and safely integrated into a control panel in an existing PROFINET system. We provide this controller as a unit ready for installation or already integrated into customer specific control panels and various casing designs.



*Griessbach PROFINET controller*



*Keyboard for printing presses*





*This speaks for quality.*

Made in Luckenwalde.

*Versatile and application-specific?  
Everything under control.*

## HMI systems with integrated controllers.

We have developed very compact control panels and modules for universal machines in food production. Completely insulated against water and dust ingress, these units feature control panels that can be cleaned without residue for effective hygiene. Apart from that, the entire controller operates directly through the HMI unit, eliminating the need for separate control electronics.

Apart from a variety of display languages, the HMI unit supports motor speed control and can be integrated into existing equipment infrastructures regardless of model.



*HMI system (front) and (side) for the food industry*





*From basic design to HMI system.*

We are a  
one-stop shop.


Cost-effective, excellent quality, and on schedule best describe our products and working approach. Parallel manufacturing in the various production areas at one site make this possible.

Specifically, electronics manufacturing as the core of a reliable and functional HMI system ensures top quality. That's exactly why our production capabilities are focused in this particular area:  
From PCB assembly to casting to final assembly, you'll find all the disciplines at our location.

”

*Griessbach has always shown compelling development and manufacturing capability in membrane keyboards as well as control and display modules that have proven their worth over the years in our universal machines.*

Automation Engineer, Stephan Machinery



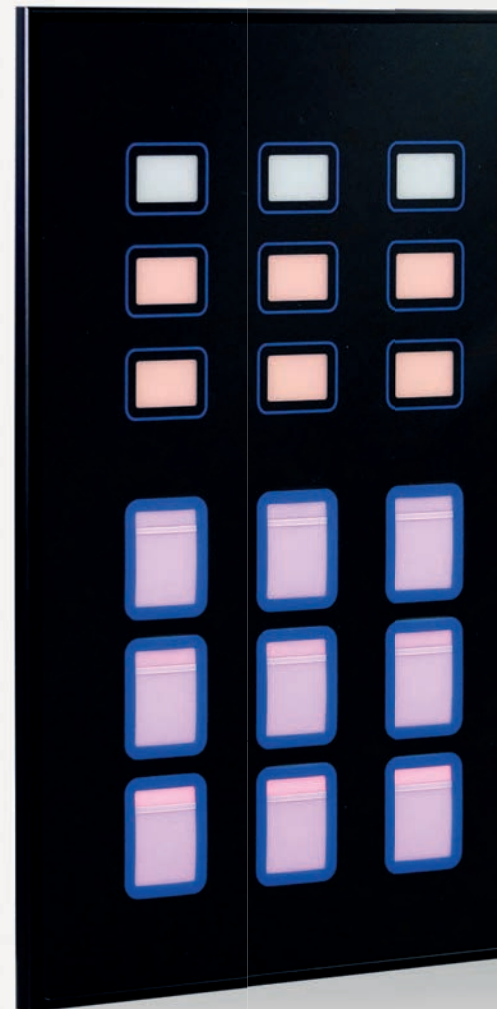
*Working together to turn your project into a success.*

## With technological innovation and those special touches.

We'll put all our effort into basic design and developing a solution together with you that will make your product even better, safer, and more functional and versatile.

This may also involve developing and implementing unusual HMI designs adapted to your exact specification to enhance your competitive edge on the market.

Whether we're implementing solutions according to your basic design or developing new solutions together with you, close communication between our staff members and your project managers will ensure the best possible result.





”

*Their ability to offer the best solution and the positive experience we'd already had with Griessbach and their CAN modules clinched it for our decision on the stability indicator.*

Electronics Development, KoneCranes



Product:  
Keyboard for maritime engineering



# What can we do for you?

Let's arrange a meeting between your future contact and our people.

Together, we'll see how we can achieve the objectives in your project – and maybe even exceed them.

Our sales team look forward to hearing from you for a new challenge:

[beratung@griessbach.de](mailto:beratung@griessbach.de)

## **Griessbach GmbH**

Im Biotechnologiepark

14943 Luckenwalde

Tel. +49 (0) 3371 62620

Fax +49 (0) 3371 62629 7

[www.griessbach-luckenwalde.de](http://www.griessbach-luckenwalde.de)

As of December 2020