

inCONTROL

ISSUE 1 / 2016

Customer magazine

IT'S SHOWTIME

Curtains up for the HBC tradeshow innovations in Munich and Hannover!

INNOVATIONS Page 4

merlin®

The clever HBC technology with "magic" possibilities.



technos A & technos B

Pure operating comfort with configurable color TFTs.

PROJECTS Page 12

HBC radio technology controls IROCK stone crusher.



Dear customers,

Spring is the time for tradeshows. At the end of April, Hannover will once again be the capital of industry. And only a few days before that, we are happy to welcome you to THE tradeshow highlight: after all, 2016 is a bauma year!

To celebrate the importance of these events, we have put together a whole set of innovations that we will present in Munich and Hannover. You can look forward to two new radio controls in the technos family, a new micron handheld transmitter and many other innovative features that make your work safer, easier and more efficient.

A successful premiere, of course, requires an appropriate stage. This is why our tradeshow booths now have a completely new and fresh design. Last but not least, we will launch our new HBC website in preparation for the spring tradeshow season.

This issue of inControl offers you an overview of the innovations we will present at bauma and the Hannover Messe. If you want to learn more about these topics, a visit to www.hbc-radiomatic.com will be worth your time.

Of course, we are also looking forward to a personal meeting in Munich or Hannover. You can experience all HBC innovations live and first-hand in a relaxed atmosphere. There we will also have the time for detailed consultations.

I wish you a good start into the spring season and we are looking forward to your visit in Munich and Hannover!

Kind regards,



Wolfgang Brendel
President & CEO
HBC-radiomatic GmbH



micron 5 with integrated rubber shock absorber

Proven quality in a new design.

Our classic micron 5 will soon include an integrated, molded rubber shock absorber as has been proven and is now renowned on micron 6 and micron 7.

Your advantages at a glance:

- Built-in protection against impacts
- Rubber strips provide slip-proof, ergonomic handling
- Efficient protection of the connection between upper and lower housings
- Additional shock absorber not needed = easier storage
- Lighter than the previous version
- Includes all proven micron 5 functions
- Robust metal pin for belt clip attachment



micron M

Compact. Handy. And a real powerhouse.

The renowned micron family by HBC-radiomatic gains a new member: micron M features a compact design, has comfortable ergonomics and scores with many powerful features – such as the new merlin® technology by HBC-radiomatic (see also the report on pages 4/5).

Whether you control a belt conveyor, a high rack or a lifting platform; micron M ensures maximum safety for man and machine, makes work easier and has a lot of power. The built-in Li-ion battery provides the power needed for up to 30 hours of continuous operation. The transmitter is charged inductively with a Quick Charger, which is also used to store the transmitter.



The most important details at a glance:



merlin® iLOG

In service cases, merlin® iLOG offers the quick and easy activation of a spare merlin® transmitter. This saves time and money.



Catch-release

This renowned HBC function allows two or more operators to take turns controlling a crane or transfer the control of a crane to an operator with a better view on the situation.



Automatic frequency management

In changing operating environments and where there is high utilization of the radio channel, frequency hopping within the 2.4 GHz band allows for optimum reliability and uninterrupted work.



radiomatic® shock-off / roll-detect / zero-g / inclination switch

These safety features can automatically deactivate the radio control in dangerous situations and thus offer additional protection for the operator.



merlin® TUC
(see report on page 4 / 5)



merlin®. The clever HBC technology with “magic” possibilities.

merlin® stands for an innovative HBC concept that offers more options for the use of your HBC radio controls. The concept comprises different elements that can be used individually or in combination.

merlin® TUC (Transmitter User Card)

Safe and efficient management of access rights.

The personal login card merlin® TUC is used to switch on the control.

How it works:

- To activate the transmitter, the operator holds the merlin® TUC close to the transmitter.

Your advantages:

- The radio control – and thus also the machine – is securely protected from unauthorized use.
- By means of a personalized configuration of the card, the control can lock or unlock specific functions – such as moving into restricted areas which are designated for experienced operators.
- In combination with an HBC data logger, diverse operational data of the radio system is collected for further evaluation.



merlin® RMC (Receiver Master Card)

Efficient, flexible, easy service.

merlin® RMC allows for the flexible pairing of merlin® transmitters with merlin® receivers, as often as needed.

How it works:

- merlin® radio systems are delivered without fixed pairing of the transmitter and receiver.
- The customer can pair a merlin® transmitter to a merlin® receiver with the merlin® RMC (included in the delivery).

Your advantages:

- For service cases, where the merlin® iLOG is lost or completely damaged, spare merlin® transmitters are quickly activated with the merlin® RMC.
- Additional merlin® transmitters can be easily integrated into the system.
- The proven HBC catch-release feature is automatically included when several merlin® transmitters are used in combination with a merlin® receiver.

How merlin® RMC and merlin® TUC work:



merlin® MAP (Machine Access Point)

Flexibility that saves money.

merlin® MAP stands for Machine Access Point and is designed to manage the use of multiple machines in pre-defined groups. In such a group, the operator has the flexibility to log onto, and control, each of the machines.

How it works:

- Within a machine group, every machine is equipped with a merlin® MAP module.
- Each operator can log onto a merlin® MAP module with the transmitter, work with the machine and then release the machine for another operator – no additional hardware is needed.

Your advantages:

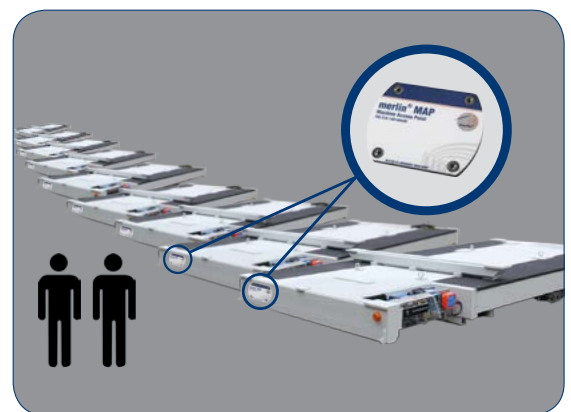
- merlin® MAP ensures maximum flexibility, additional operating convenience and reduces the need for hardware = lower costs!



Example intralogistics:

Two radio transmitters for 17 vehicles.

In a pool of 17 radio-controlled transport vehicles, two operators work at the same time. Depending on the requirements, they log onto the vehicle that is needed with their radio transmitter by means of merlin® MAP. Thanks to the clever technology, they have flexible access to all 17 vehicles with just two transmitters. Until now, 17 complete radio systems (= 17 receivers + 17 transmitters) were needed for such configurations. merlin® MAP thus opens up new perspectives in efficiency and operating comfort.



Quality in Control.

technos A & technos B

Pure operating comfort with configurable color TFTs.

technos A

Compact design with two color TFTs.

Details at a glance:

- 2 configurable 1.77" color TFT displays
- 2 joysticks or 6 linear levers
- Other diverse HBC operating elements available
- radiomatic® iCON for display navigation
- radiomatic® iLOG: service without downtime
- Rechargeable Li-ion exchange battery for 20 hours of continuous operating time
- Integrated flashlight and front panel lighting
- 4 LEDs for feedback and status information
- Safety features radiomatic® shock-off / zero-g / inclination switch
- We are glad to show you many other useful HBC features on request



Integrated flashlight





The new radio controls technos A and technos B complement the proven technos series by HBC-radiomatic and boast a comprehensive set of useful HBC features.

Depending on your requirements, both transmitters are equipped with joysticks or linear levers and other diverse HBC operating elements are also available. This leaves nothing to be desired!

technos B

The ergonomic control for applications requiring expanded functionality.

Details at a glance:

- Configurable 3.5" color TFT display
- 3 joysticks or 8 linear levers
- Other diverse HBC operating elements available
- radiomatic® iCON for display navigation
- 4 configurable one-step buttons integrated into the rollover bar
- radiomatic® iLOG: service without downtime
- Rechargeable Li-ion exchange battery for 18 hours of continuous operating time
- Integrated flashlight and front panel lighting
- 4 LEDs for feedback and status information
- Safety features radiomatic® shock-off / zero-g / inclination switch
- We are glad to show you many other useful HBC features on request



Integrated flashlight



Quality in Control.



radiomatic® photon

Safe working with live-view camera assistance.

Positioning a gripper arm precisely over the load, driving a logistic vehicle through areas with limited view, or aligning a drill bit exactly to the desired position in a narrow space: Our new camera assistance with radiomatic® photon is a valuable help for such demanding tasks.

radiomatic® photon delivers live video images to the radio control's color display. The operator always has a good view of the machine and the working environment, even in areas with limited view and obstructed viewing angles.

radiomatic® photon can interface with various cameras made by Orlaco. Depending on the application, cameras with different viewing angles can be used and infrared cameras are available for use in low-light or no-light conditions.

radiomatic® photon is available as an option for technos 2, technos B, spectrum D and spectrum E.



NEW: Compatible with various Orlaco cameras.



HBC batteries with Li-ion technology

Powerful, durable and efficient.

Li-ion batteries are very light, highly resilient and extremely durable. Furthermore, they offer much longer operating time for the use of the radio control.

Today, our transmitters orbit, micron M, technos 2, technos A, technos B and spectrum E are already equipped with this powerful technology. We are also working on a move to Li-ion batteries for other renowned products. For example, the radio transmitters spectrum 3 and spectrum D will soon be available with a new Li-ion exchange battery.



micron M works with an integrated Li-ion battery that can be charged inductively with the Quick Charger.

Power & Performance

New batteries at a glance



With the battery families BA405 and BA406 you will benefit from all the advantages of Li-ion technology. One clever feature is the integrated battery level indicator. You always have information about the battery condition so a replacement can be made at a convenient time. Batteries of the BA405 family offer a capacity of 6 Ah, batteries of the BA406 family of 9 Ah.

For charging the new battery types, the new battery charger QD40500 is available for both batteries and will work with DC or AC power (additional plug-in power supply required for AC use).



Integrated battery level indicator.

Quality in Control.

spectrum Ex

Powerful control technology for potentially explosive atmospheres.

State-of-the-art HBC technology with many attractive features in an explosion-proof version: this is our new radio transmitter spectrum Ex! The high-performing innovation with approvals according to ATEX, IECEx, NEC and CEC offers many more options for the global use in hazardous areas.

spectrum Ex – Your advantages at a glance:

- 2 housing sizes available: perfect for your requirements
- Available with joysticks or linear levers
- radiomatic® iLOG: service without downtime
- 2.4 GHz technology: integrated automatic frequency management
- Version with split screen display for feedback and status data
- merlin® TUC (Transmitter User Card)
- Enabling switch
- and much more



Approvals:

- ATEX: M2 (Underground), 2G (Ex zone 1), 3G (Ex zone 2)
- IECEx: Mb (Underground), Gb (Ex zone 1), Gc (Ex zone 2)
- NEC: Class I, Division 1, Groups C, D T4 (NEC 500); Class I, Zone 0, Group IIB, T4 (NEC 505)
- CEC: Class I, Division 1, Groups C, D T4



Version with larger housing



micron 7

Proven micron quality with configurable color TFT.

The new HBC radio control micron 7 is the perfect combination of proven micron quality and state-of-the-art, high-performing display technology. With an individually configurable 1.77" color TFT, this innovation can display status and machine data in a clearly structured, customized display design. Display navigation is implemented via the mini joystick radiomatic® yuCON with two axes / four directions and a button.

For the control of crane and machine functions, micron 7 is equipped with ten two-step HBC push buttons and a rotary switch. Further commands are available as softkeys in the display. With this comprehensive set of features, the transmitter is the perfect choice for the wireless control of cranes and machinery with up to five two-step drives.



First-class features at a glance:

- 10 two-step HBC push buttons
- radiomatic® yuCON for display navigation
- radiomatic® iLOG: service without downtime
- Rechargeable NiMH exchange battery, up to 17 hours of continuous operating time
- Plastic housing, protection class IP 65
- Automatic frequency management with 2.4 GHz technology
- Optional: merlin® TUC (Transmitter User Card) and many other HBC features



Quality in Control.

All functions at hand: HBC radio technology controls IROCK stone crusher



The customer:

Kraft Fluid Systems, North American specialist for the distribution and integration of hydraulic and electronic control equipment, based in Cleveland, Ohio.

The project:

Wireless control of a stone crusher by the North American manufacturer IROCK Crushers with all drive and machine functions.

The HBC radio system:

FST 737 spectrum 2 with 3 linear levers for the drive functions as well as several toggle switches and a rotary switch for machine functions.

The result:

The HBC radio control has numerous advantages for the operator. All functions can be controlled with a compact device that offers great operating comfort. Even demanding driving maneuvers can be performed with a high level of precision and safety because the operator can always work from the position with the best view of the situation. Another advantage is that the operator can control the machine without being exposed to the constant vibrations of the machine.

“We are very happy with the HBC radio control. The specifications for the IROCK stone crusher have been implemented perfectly. With HBC USA, we have a competent US-based contact available who can quickly and reliably help us with all our questions.”

*Adam Crowder,
CFPHS Territory Sales Manager at Kraft Fluid Systems*



Precision and safety: Faymonville heavy goods vehicle with HBC radio control



"In close collaboration with our technical development, HBC-radiomatic has designed a radio control that meets our requirements perfectly. As such, we can offer genuine additional value to our customers."

*Robert Franzen,
Technical Development at Faymonville AG*

The customer:

Faymonville AG, specialist for the production of heavy goods trailers and self-driving heavy goods transport modules, headquartered in Bullingen (Belgium).

The project:

Wireless control of self-driving heavy goods transport modules PowerMAX APMC with all vehicle functions.

The HBC radio system:

FST 737 spectrum D with color TFT for diverse vehicle data, 2 HBC joysticks for driving functions in addition to push buttons, rotary / toggle / potentiometer switches for other vehicle functions.

The result:

With the color display, the operator always has access to a great deal of important information. Sensitive and exact control via the HBC joysticks coupled with the mobility of the operator allow for precise and safe driving and maneuvering of the vehicle.

Quality in Control.



We proudly present: HBC-radiomatic, Inc.

Your competent partner in North America.

From Australia to Canada, from China to Brazil, from South Africa to Norway: HBC customers can always rely on a strong global service and sales network with six subsidiaries and over 40 international partners.

In the North American market, our subsidiary is HBC-radiomatic, Inc. located in Hebron (Kentucky, USA; Cincinnati Metropolitan Area). HBC-radiomatic, Inc. prides itself on providing expert technical consulting support, application-specific design of customized products, as well as responsive and professional customer service. In addition, the team manufactures HBC radio systems for North American customers in the company's purpose-built and state-of-the-art production facilities.

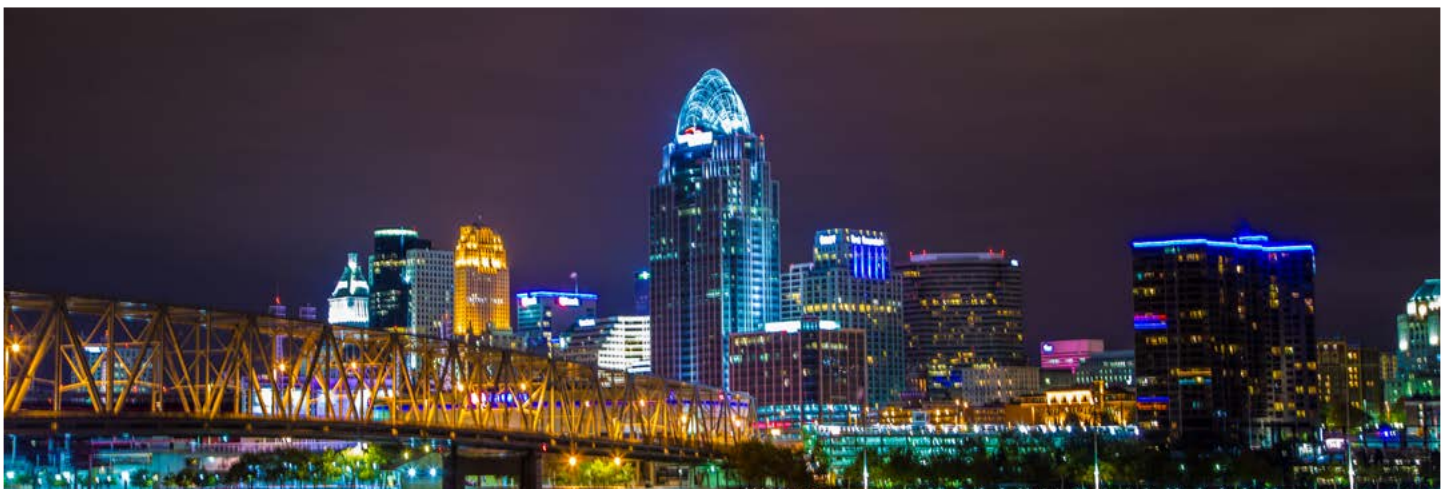
Today we would like to present our subsidiary in a photo series:



HBC-radiomatic, Inc. in Hebron (Kentucky, USA).



The team of HBC-radiomatic, Inc. with CEO Jeff Allan (top middle).



Cincinnati offers the perfect strategic location with many of our customers and an international airport nearby.



Competent and personal consulting is one of HBC-radiomatic's trademarks.



Transmitter front panels are designed individually to fit to the customer's requirements.



Modern CNC machines are used at HBC-radiomatic, Inc. to modify the transmitter housings.



The systems are assembled in the production islands. All functions of the radio system are tested here before delivery.



A well-stocked spare parts and accessory warehouse ensures quick availability and short delivery times.



An experienced team of technicians provides quick service repairs minimizing downtime.

Quality in Control.



A fresh new design for the HBC website

Appealing design, clear structure, exciting content at www.hbc-radiomatic.com



Have a look for yourself at
www.hbc-radiomatic.com
We look forward to your visit!



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Just in time for the tradeshow highlights this spring, our website launches in a completely new and contemporary design. Here you can experience the whole world of HBC radio technology in a compact and clear format.

Numerous photos and videos provide details about our products, take you on a journey through our company's history and offer a virtual tour of our company. Discover for yourself how the renowned HBC quality is achieved, what makes

our products so special and what advantages our global service has to offer.

Of course our new website is also adapted to smartphones, tablets and other mobile devices. All important information about HBC is now just a few clicks away, even when you're on your way.