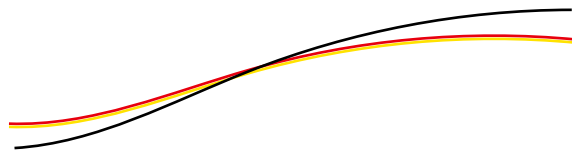


EFFICIENCY

MADE IN GERMANY



SECURE CUSTOMER BENEFITS THROUGH ENGINEERING TRIMMING PRESS OR FULLY AUTOMATED CASTING CELL: TRUST IN OUR EXPERIENCE!

The high standards of the industry on perfectly manufactured casting parts are constantly increasing. The complexity of the components increases – for example through the integration of several functions in one part. Anyone who wants to produce economically in this industrial sector needs a maximum of intelligent automation.

In cooperation with Aulbach Entgratungstechnik GmbH, we offer you complete solutions for your deburring

tasks from a single source. The combination of a high-quality trimming tool and a robust and user-friendly deburring press at a high technical level ensures process reliability and repeatability.

What can we offer you?

abk MANAGEMENT



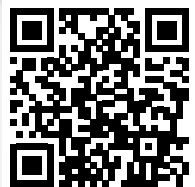
Andreas Kohlmann



Lisa Aulbach-Heinecke
Dipl.-Ing (FH)



Ulrich Krimm



Wherever casting parts made of aluminum or magnesium have to be deburred reliably and cleanly, robust and maintenance-friendly hydraulic column presses are the first choice. Designed as 3- or 4-column presses with different pressure capacities, they cover a wide range of application. The proportional control of all hydraulic functions, such as hydraulic cylinders of trimming tool, downholder or main cylinder, allows individual detailed adjustment and optimization of process programs.

- The new abk column guides are without central lubrication
- maintenance and wear-free
- Large opening in press table for disposal of burrs, gate system and overflows
- Proportional hydraulics with energy-saving function via volume regulation of the hydraulic pump
- Intuitive graphical user interface of the Siemens S7 control

COLUMN PRESSES

THE TYPICAL HYDRAULIC PRESS FOR DEBURRING IN MANUAL OR AUTOMATIC OPERATION



SLIDING TILTING TABLE PRESS

A SAFE AND ECONOMICAL DEBURRING PRESS WITH RELIABLE SOLUTION COMPACT ROTARY DRIVE

The sliding tilting table is a useful additional function of the column press, especially in case of deburring large, complex casting parts in highly automated casting cells.

Effective burr removal through 180° movement of the press table with the lower tool part enables maximum process reliability when operating large tools.

Advantages Overview:

- Low installation height practicable due to outside loading and unloading of casting parts
- Designed for robot automation
- Optimal removal of deburring by turning the lower table
- very good accessibility to the drive components in the case of maintenance is guaranteed
- abk has developed together with Parker Hydraulics a new rotary drive that requires low maintenance. Furthermore, the table position can be programmed individually using the position control.
- Proportional hydraulics with energy-saving function via volume regulation of the hydraulic pump
- Intuitive graphical user interface of the Siemens S7 control



SPOTTING PRESSES

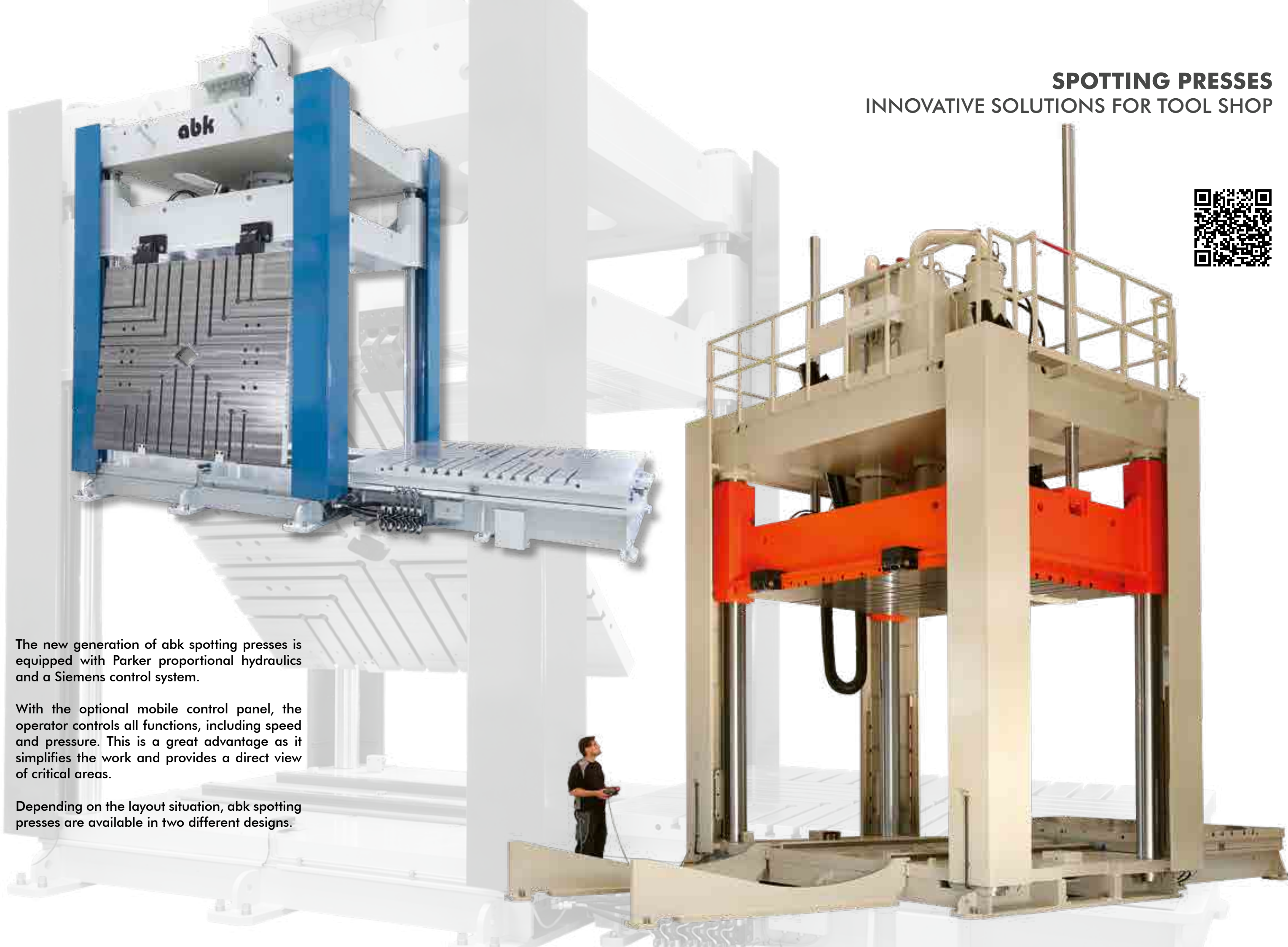
INNOVATIVE SOLUTIONS FOR TOOL SHOP



The new generation of abk spotting presses is equipped with Parker proportional hydraulics and a Siemens control system.

With the optional mobile control panel, the operator controls all functions, including speed and pressure. This is a great advantage as it simplifies the work and provides a direct view of critical areas.

Depending on the layout situation, abk spotting presses are available in two different designs.



AUTOMATION

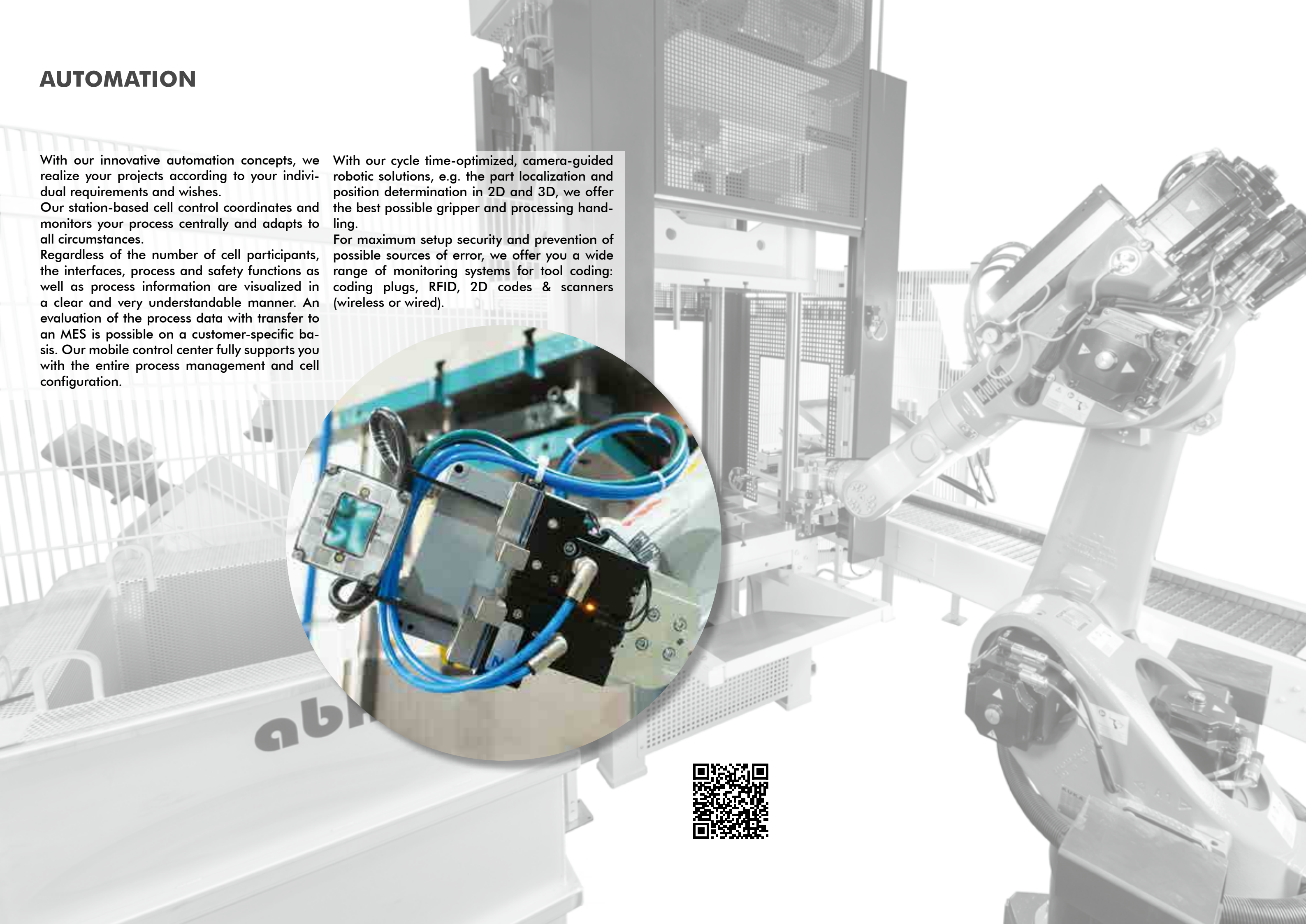
With our innovative automation concepts, we realize your projects according to your individual requirements and wishes.

Our station-based cell control coordinates and monitors your process centrally and adapts to all circumstances.

Regardless of the number of cell participants, the interfaces, process and safety functions as well as process information are visualized in a clear and very understandable manner. An evaluation of the process data with transfer to an MES is possible on a customer-specific basis. Our mobile control center fully supports you with the entire process management and cell configuration.

With our cycle time-optimized, camera-guided robotic solutions, e.g. the part localization and position determination in 2D and 3D, we offer the best possible gripper and processing handling.

For maximum setup security and prevention of possible sources of error, we offer you a wide range of monitoring systems for tool coding: coding plugs, RFID, 2D codes & scanners (wireless or wired).



C-FRAME-PRESSES

C-FRAME PRESSES ARE CHARACTERIZED BY A DESIGN



C-frame presses are real all-rounders among deburring presses up to 100t pressing force.

- Stable welded construction
- Wear-free precision rail guides for high accuracy
- The press area is open on three sides
- The very good accessibility allows larger deburring tools to be installed
- Optimal removal of deburring through very large table opening
- Proportional hydraulics with energy-saving function via volume regulation of the hydraulic pump
- Intuitive graphical user interface of the Siemens S7 control





- Complete cleaning of the deburring press
- Professional dismantling and assembly
- Check existing hydraulic cylinders and seal if necessary
- New abk press hydraulics from Parker with automatic switching of fast motion and press stroke including filter and cooling unit with monitored valves
- Proportional hydraulics with variable regulated pump in the base version
- New abk control from Siemens S7
- New guide columns installation height

- Renew guides and bushes – matched to the new guide pillars
- Integration of a robot interface
- New main cylinder to increase press stroke
- Reconstruction or renovation safety doors / safety grid incl. Monitoring in accordance with customers layout
- Supplementary interfaces like hydr. Connections, tool monitoring
- New CE declaration and instruction manual

GENERAL OVERHAUL & PRESS REBUILDING BY ABK INCLUDES A WIDE RANGE OF SERVICES THAT ARE DESIGNED TO REPLACE THE MACHINE IN ALMOST NEW CONDITION AND – ACCORDING TO CUSTOMER REQUIREMENTS – TO EXTEND FUNCTIONS IN IT.

old but GOLD



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