

AUTOMATION



SHIRT-LUPFER

INNOVATIVE BAVARIAN TECHNOLOGY
ENHANCES PRODUCTION PLANNING RELIABILITY



DESCRIPTION

The innovative Shirt-Lupfer, developed in conjunction with the removal robot, was born out of a singular vision: to redefine and elevate mundane, repetitive tasks by harnessing the relentless efficiency of cutting-edge machinery. Unlike human counterparts, the Shirt-Lupfer never succumbs to fatigue, never takes a pause, and is unfailingly punctual, guaranteeing a consistent, flawless output with every operation.

Central to its revolutionary design is its ability to supplant manual labor at the screenprinting machine, particularly addressing the physically demanding chore of extracting the print medium. Seamlessly integrated into the production workflow, this advanced system not only streamlines the removal process but also serves as a protective barrier, safeguarding the integrity of the print medium as it undergoes delicate disengagement from the printing plate. This dual functionality not only amplifies productivity but also ensures the preservation of the print medium's quality, thereby ushering in a new era of seamless and faultless production cycles. With the Shirtlupfer system in place, businesses can confidently navigate the intricacies of production planning, knowing that reliability, efficiency, and quality are all assured.



HIGH TECHNICAL AVAILABILITY

The cornerstone of seamless operations and reliability in complex systems.

PRINTING OPERATIONS MADE LEANER WITH REDUCED LABOR NEEDS

Embracing efficiency: streamlining printing operations through reduced labor requirements to optimize processes and enhance productivity.

ENSURING TEXTILE QUALITY

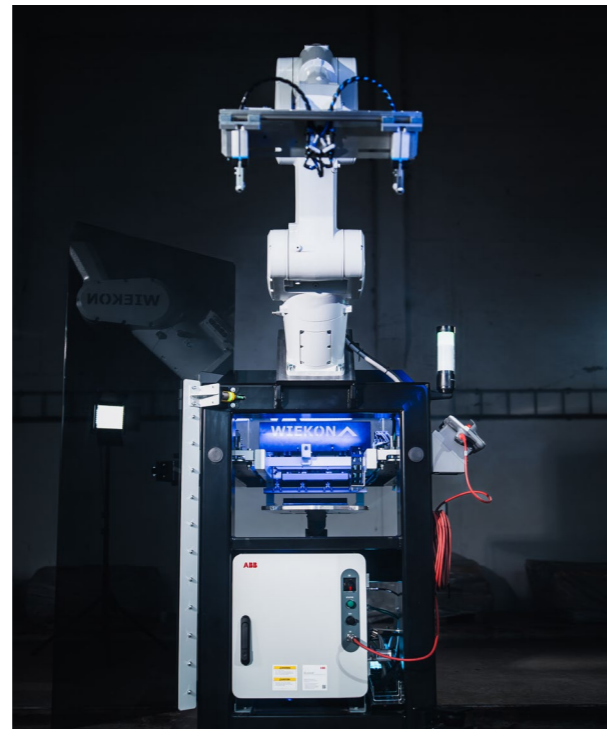
Preserving textile integrity: Ensuring gentle removal from pallets without compromising quality.

PRODUCTION APPROVED

Reliability is equally paramount to us. We understand that our customers rely on our products to perform day in and day out, without fail.

SWIFT ROI: FAST RETURNS, LASTING IMPACT

Accelerating returns for immediate benefits and long-term value.



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SHIRT-LUPFER

PRINTING OPERATIONS STREAMLINED: REDUCED LABOR DEMANDS REVOLUTIONIZE EFFICIENCY



**SIMPLIFIED PRINTING:
LESS LABOR, MORE EFFICIENCY**

**SMOOTH PRINT MEDIUM
HANDLING**

The Shirt-Lupfer was developed along with the removal robot with a simple goal: to swap out tedious, repetitive tasks with machine efficiency. The Shirtlupfer never takes a break, never calls in sick, and is always on time, guaranteeing unwavering quality every time.

WORKFLOW BENEFITS

Explore the perks of streamlining workflows!

OPTIMIZED WORKFORCE EFFICIENCY

By integrating the Shirt-Lupfer, the need for manual labor in the physically demanding task of removing shirts is significantly reduced. This not only streamlines operations but also frees up personnel for more strategic tasks within the production process.

ENHANCED PLANNING RELIABILITY

With fewer short-term cancellations due to sickness, production planning becomes more reliable and predictable. This reduces disruptions, improves workflow consistency, and ultimately leads to increased productivity.

GENTLE HANDLING OF PRINT MEDIUM

The system ensures a gentle and even removal of the print medium, minimizing the risk of damage or defects. This preserves the quality of the print medium and contributes to a higher overall product standard.

EASY RETROFITTING AND INTEGRATION

The independent system comprising the Shirt-Lupfer and robot can be seamlessly retrofitted into existing printing presses. This allows for cost-effective upgrades without the need for extensive modifications to the production setup.

CONSISTENT AUTOMATION AND STANDARDIZATION

Standardized deposits on the drying tunnel enable further downstream automation, facilitating a more streamlined and efficient production process. This consistency leads to reduced variability and improved overall quality control.

RAPID RETURN ON INVESTMENT

The system boasts a short amortization period, even in 2-shift operations across European and American markets. This means that businesses can quickly recoup their investment and start realizing significant cost savings and efficiency gains.

DEVELOPED AND PRODUCED
BY WIEKON FOR MHM IN BAVARIA.

POWERED
BY WIEKON

TECHNICAL BENEFITS

Unveiling technical advantages: elevating performance and precision

INDUSTRY 4.0 READY

The system architecture is designed to meet the requirements of modern Industry 4.0 standards, ensuring compatibility with advanced manufacturing technologies and facilitating seamless integration into smart factory environments.

CUSTOMIZED MACHINE CONTROL

With its own machine control and user interface, the system offers flexibility and adaptability to specific production needs. This allows for tailored operation and optimization according to individual requirements.

REMOTE MAINTENANCE CAPABILITIES

The option for remote maintenance provides direct system access, allowing for efficient troubleshooting, diagnostics, and updates without the need for onsite intervention. This minimizes downtime and enhances overall system reliability.

CUTTING-EDGE ROBOTICS

Incorporating the latest industrial robot technology from Swiss construction ensures superior performance, precision, and reliability. This guarantees high-quality output and consistency in production processes.

RELIABILITY AND LOW MAINTENANCE

The system boasts high availability with low maintenance costs, thanks to its robust design and reliable components. This reduces operational disruptions and maintenance expenses, contributing to overall cost efficiency.

OPTIMIZED CYCLE TIMES

With short cycle times as low as 8 seconds for T-shirts and less than 5 seconds for bags, the system enables rapid production throughput. This ensures efficient utilization of resources and maximizes productivity, meeting the demands of high-volume manufacturing environments.



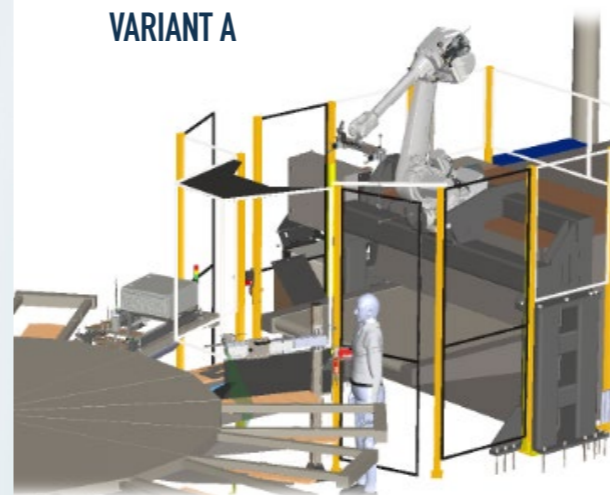
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VARIANT A



System options unveiled: Explore variant A and variant B for your specific needs

VARIANT A presents a standalone system featuring the Shirt-Lupfer on its own frame, complemented by a removal robot connected via the drying tunnel. Meanwhile, **VARIANT B** offers a combined system where both the robot and the Shirt-Lupfer reside on a single frame, akin to a trade fair demonstration model.

Additionally, we offer customized combinations tailored to individual customer requirements, ensuring that your production setup perfectly aligns with your unique needs and preferences.

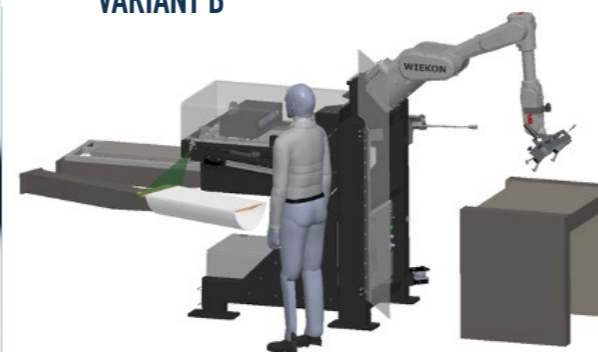
TECHNICAL SPECIFICATIONS

- Pressure requirement 6 bar (approx. 20 l/min)
- Power requirement approx. 2 kW
- Also available in UL

INSTALLATION FLOOR SPACE

Depending on variant and depending on screenprinting machine and dryer.

VARIANT B






POWERED BY WIEKON



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