



INNOVATIVE AUTOMATION SOLUTIONS

AUTOMATION MADE IN GERMANY

ILSEMANN *AUTOMATION*



**MEDICAL &
LABWARE**



**CAPS &
CLOSURES**



**IML
APPLICATIONS**



**FOOD
PRODUCTS**



COSMETICS



**CUSTOMIZED
SOLUTIONS**



ABOUT OUR COMPANY

Ilsemann Automation has been providing solutions to the plastics industry since 1965.

High speed robotic takeout systems coupled with precise, value-adding automation for complex tasks are used by our valued customers worldwide. Ilsemann Automation stands for carefully considered engineered solutions that answer the demands of the most challenging applications. We always keep the needs of our customer foremost in mind.

In over 60 countries companies are achieving their goals with systems from Ilsemann Automation. We make it our duty to provide you with the most efficient solutions for your project at hand.

Our customer service provides technical online and phone support as well as fast spare part supply and, if needed, service directly by your side.

Our US office supports customers throughout North, Central and South America.

HEINO ILSEMANN GMBH

| | |
|-------------|----------------------|
| STANDORT: | BREMEN, GERMANY |
| FOUNDING: | 1965 |
| LEADERSHIP: | STEPHAN ILSEMANN |
| EMPLOYEES: | 300 |
| SES: | FAMILY-OWNED COMPANY |





**MEDICAL &
LABWARE**



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**CUSTOMIZED
SOLUTIONS**



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MEDICAL &
LABWARE

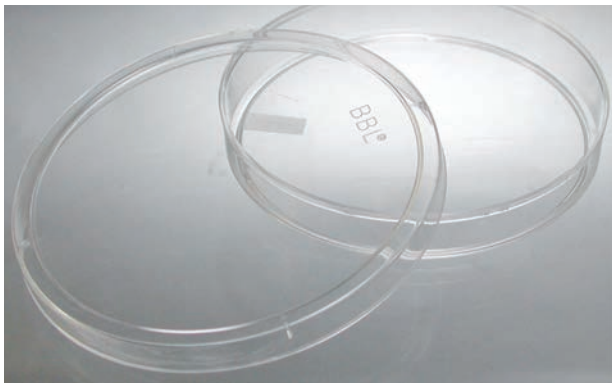
MEDICAL & LABWARE MEDICAL CONSUMABLES

As a medical consumables manufacturer your products are critical to the well-being and health of all. Our systems for the medical industry assure that your production processes can reach the highest standards in efficiency, quality and production safety. Our specialized medical automation systems can perform take out, decoration/marking, assembly, inspection and packaging operations. Ilseemann Automation has developed systems for products such as syringes, yankauers, infusion caps, applicators, bed pans, wash basins, dosing cups, I.V. filters, suture trays and more.

The systems are suitable for use in clean rooms. If required for support and validation, we offer the delivery of cGMP compliant qualification documentation as an option.

MEDICAL & LABWARE

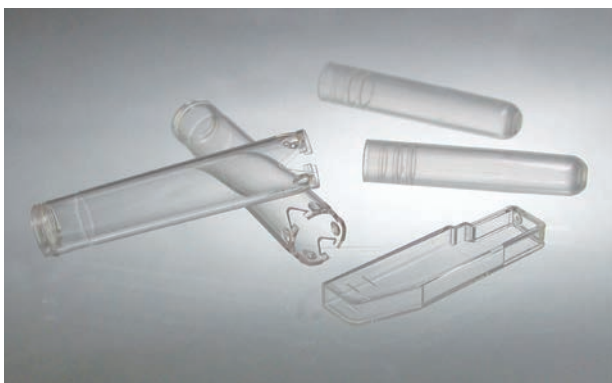




Petri dishes



Yankauer



Reaction Vessels



Caps for infusion, pipettes



MEDICAL &
LABWARE

PHARMACEUTICAL & MEDICAL LABWARE

Laboratories around the world use a large amount of disposable plastic products in a variety of applications. Products such as petri dishes, tissue culture flasks, well-plates, reaction vessels, filters, pipette tips, centrifuge tubes, etc. are in higher demand than ever. High volume production of these essential parts requires high-speed, reliable systems able to precisely perform each step in the operation.

A 100% quality control element is an absolute must and an inherent part of each system. In the course of each project a complete design qualification with DQ and FMEA is performed. Completion of a system is followed by an installation qualification IQ as well as the operation qualification OQ. All qualifications are performed GMP compliant. For this we have a qualified team available.





Production Cell for Tissue Culture Flasks

Take out, surface treatment, welding of the lid, pressure check, printing on sides, capping and packaging.



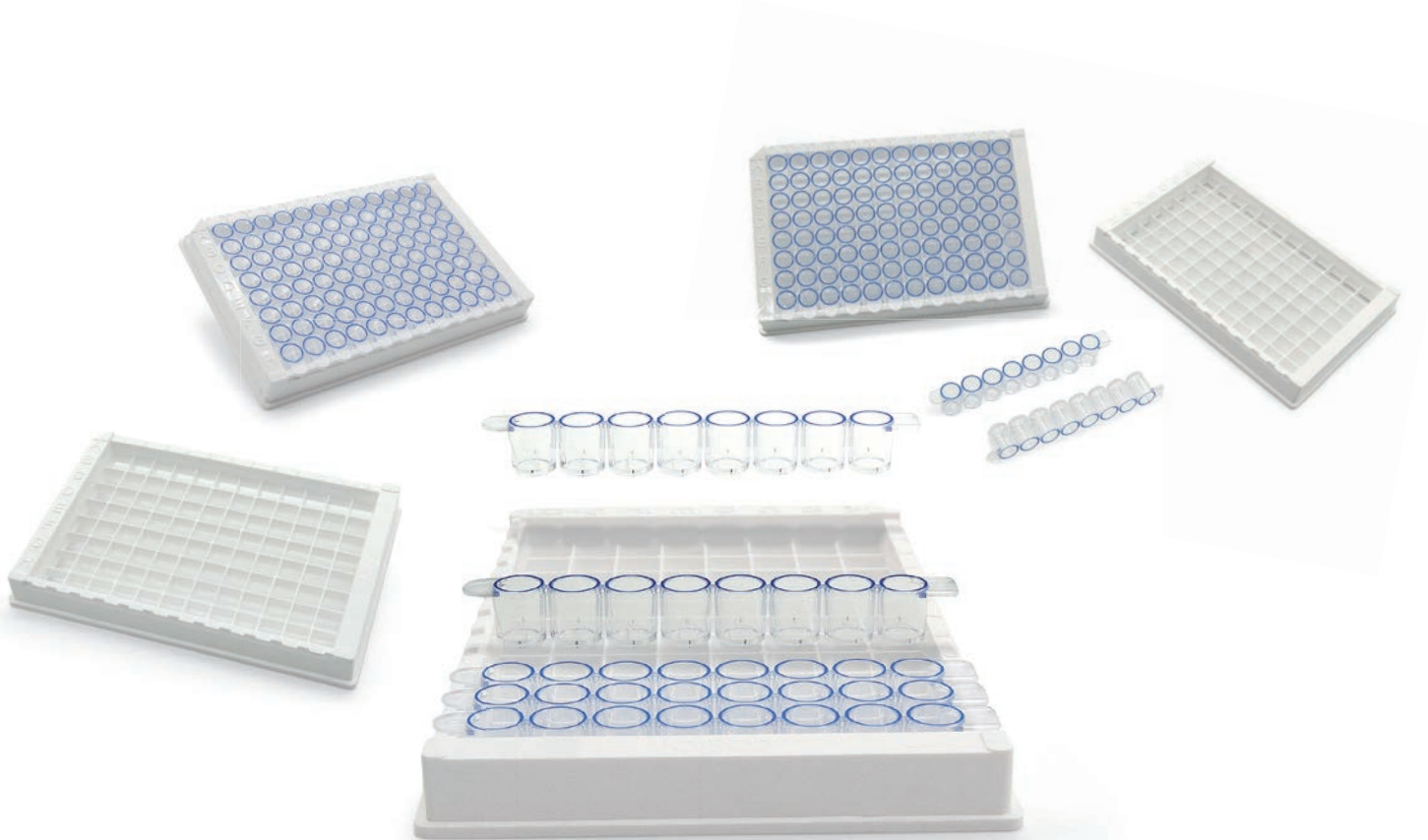
MEDICAL &
LABWARE

PCR-TRAYS & STRIPS PLATES

Ilsemann Automation provides a wide variety of machines that produce PCR trays and strips. Our focus lies on the take-out of PCR trays, the surface treatment via plasma or corona, marking with laser technology, lid assembly and stacking of assembled plates and stacking. We also can provide single, double and triple packaging. Fully integrated automatic systems are able to take out caps from an injection molding machine and feed the overall system in perfect sync.

It is possible to produce cell culture plates with 6 to 96 wells as well as PCR trays with 96 to 1.536 wells in one to four cavities.

Ilsemann Automation offers standard design platforms which can be equipped with a camera control unit and a thermal transfer printer for well strips and also the machine to produce the racks.



PHARMA
AUTOMATION

WITH FOCUS ON THE PHARMACEUTICAL INDUSTRY

Our affiliated company Heino Ilsemann provides complete packaging lines for the pharmaceutical industry such as: Blister machines, cartoning machines, banding machines, film wrapping machines, case packing and palletizing machines.

HEINO ILSEMMANN

BLISTER
SOLIDABLISTER
LIQUIDACARTONER
HORIZONTALCARTONER
VERTICALPHARMA
AUTOMATION

The machine concepts are full of solutions and innovative ideas for our customers. They are also cGMP compliant, allow quick product change-over, ease of use and a compact footprint.

The machines are flexible and the design allows easy integration with upstream and downstream system components.



Blister packaging line

The BLICA-600 is a combination of the Blister machine 85-600 with a continuous cartoner from the CA-series. High production speed and easy conversion are combined to get the best for you.



CAPS &
CLOSURES

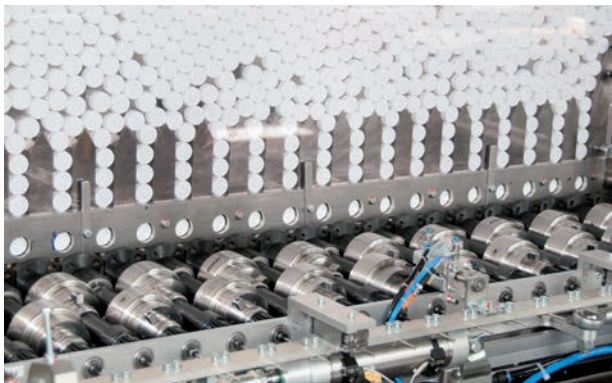
CLOSURE SPECIALISTS

The role of Caps and Closures continues to expand in packaging by creating new challenges for manufacturing. Specialty closures for tamper evident, child resistant, anti-counterfeit, dispensing, dosing, and barrier packages usually require a multi-component assembly process. Volumes are high and precision is called for. We have developed standard automation platforms able to simultaneously assemble up to 20 closures at a time at each assembly station.

Our systems have achieved rates as high as 1,000 closures per minute with up to 10 operations performed in the assembly process. The systems are compact, flexible and very reliable.

CAPS & CLOSURES





Cap feeding unit



Fitment feeding unit



QC check of assembled closures



Assembly automation for two-piece closures



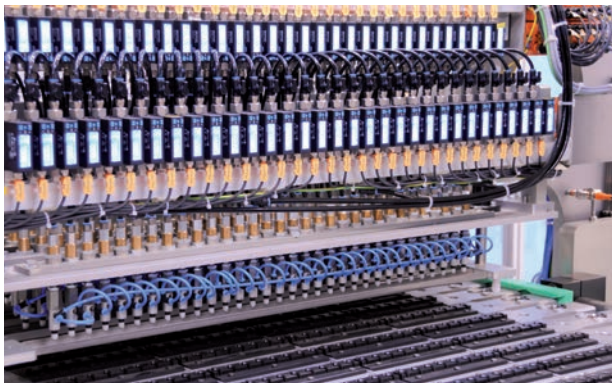
CAPS &
CLOSURES

100%- QUALITY CONTROL FOR PERFECT RESULTS

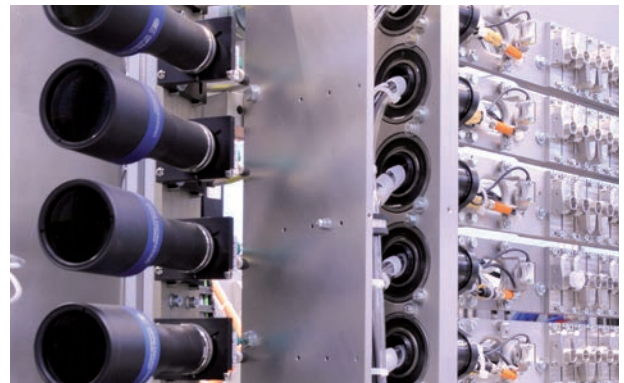
For optimized production of 2-component products, Ilsemann Automation provides systems that pair individual cavities from one mold to individual cavities of a second mold.

Parts are 100% inspected pre and post assembly. This provides the opportunity to track quality issues to specific pairs of cavities for corrective action and, to reduce a scrap.

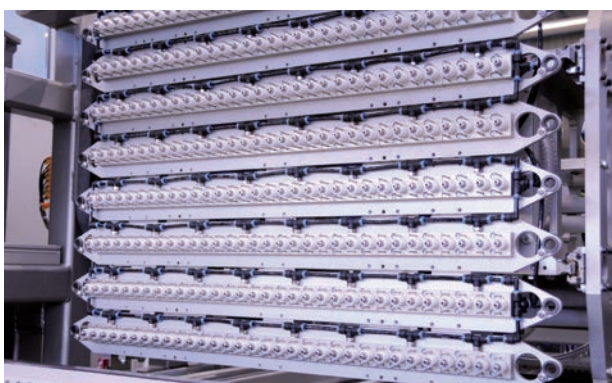




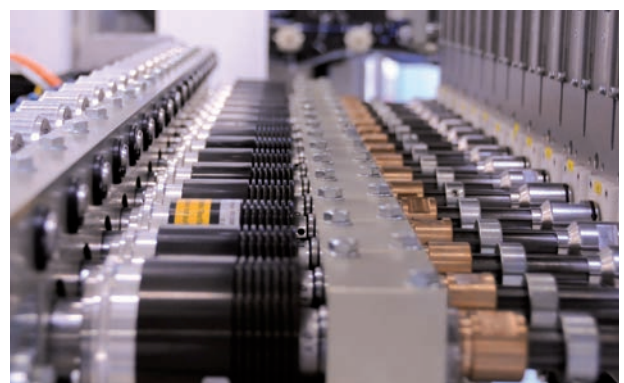
Pressure test for 128 articles



8-fold camera



Product transfer unit for 256 articles



16-fold screwstation

**IML
APPLICATIONS**

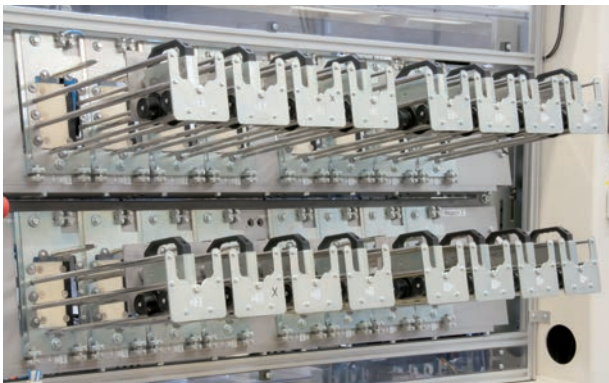
THIN-WALL CONTAINERS & LID APPLICATIONS

Ilseman Automation focuses on the needs of our customers. For low production volumes we offer small, lower priced systems with a very high degree of flexibility able to run multiple products with quick changeover. Conversely, systems for higher production volumes, including up to 1 x 32 single face or 2 x 24 stack molds are available. Vision inspection, stacking, case packing and palletizing options are available to maximize production efficiency, regardless of the system size.

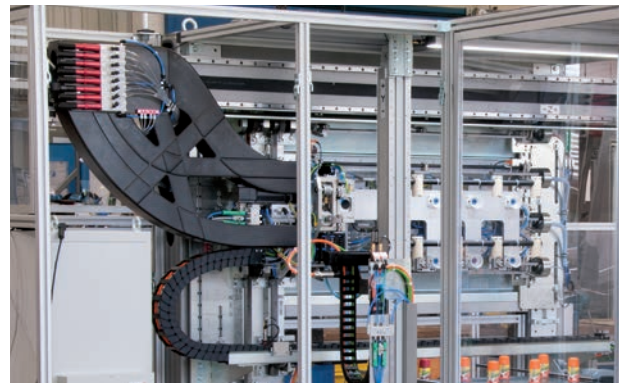
High speed performance and reliability are critical to the success of these applications. Ilseman's unique combination of light weight moving components, highly developed drive technology and heavy duty, structural steel frames enables cycle times below 5 sec., even for the largest systems. Whether you just need a high-speed take-out system or an IML system with completely integrated inspection, assembly and packaging, Ilseman Automation can provide the best possible solution for your application.

IML APPLICATIONS

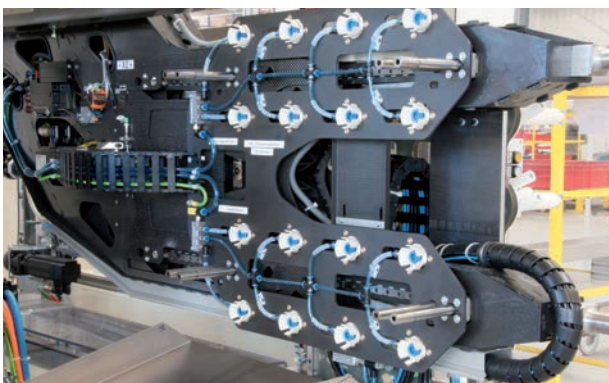




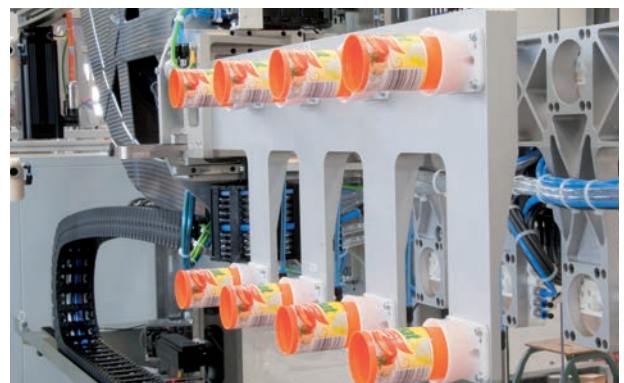
Label magazine 32-fold



Compact IML-system with 8-fold



Carbon gripper für IML-systems with 32-fold



Carbon arm with aluminium gripper for IML-systems with 8-fold

FOOD
PRODUCTS

FOOD SERVICE CUTLERY | CUPS & CONTAINERS | CAPSULES

The market for convenience products is increasing year by year. Automation is seen as a means to achieve higher productivity. Ilseemann Automation offers a wide range of fully automated systems.

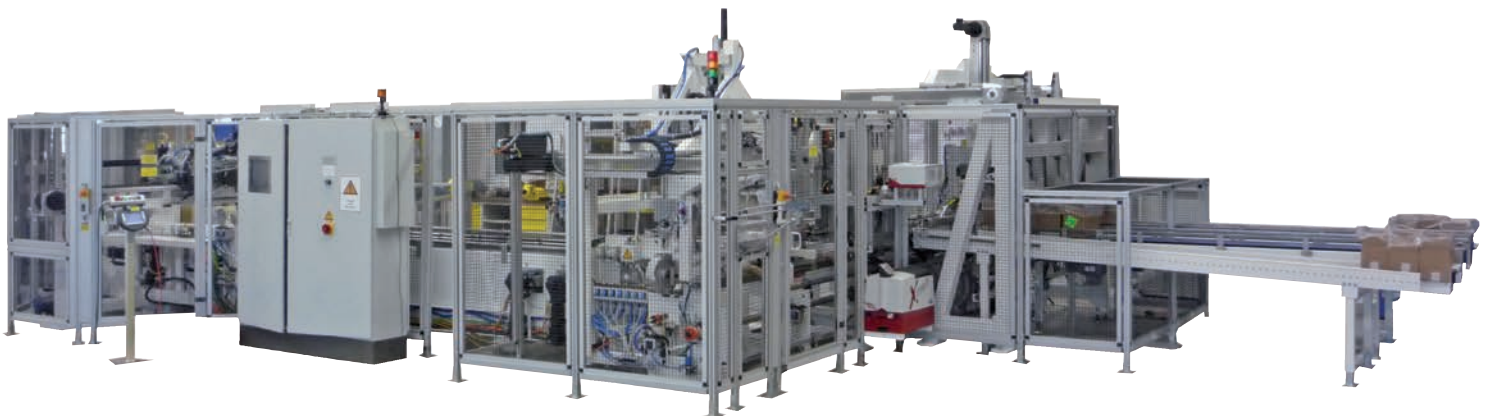
Drink cups are extracted from the mold less than 0.5 seconds and are automatically stacked, sleeved and case packed. Cutlery produced in 2x96 stack molds are extracted, stacked, banded and case packed. Coffee capsules are extracted, inspected and transported directly to downstream assembly and filling lines. Each system can be tailored to the needs of the specific customer.

FOOD PRODUCTS



Production cell for cutlery

48 cavities, take out, tube bag packaging und cartoning.



Production cell for cutlery

2 x 96 cavities, take out, cutlery stacking unit, banding and case packing.



COSMETICS

COSMETIC PACKAGING THAT FULFILLS THE HIGHEST GRADE OF OPTICAL EXPECTATIONS

The purpose of packaging is not only to provide storage and protection for the product. In today's market, the packaging must make a statement and attract attention. Packaging designers are faced with increasing demands to make products stand out from the competition and their innovative designs often increase manufacturing complexity. Customized automation solutions are needed to achieve the desired package characteristics.

Our experienced teams meet even the most complex challenges. An Ilseman Automation system delivers added value with the high degree of reliability needed.

COSMETICS







CUSTOMIZED
SOLUTIONS

OUR KNOW-HOW COMBINED WITH YOUR EXPECTATIONS

For special projects where we do not offer a standard system, our design team will work together with you to develop a concept that meets your needs. Usually, we are able to tweak and combine existing elements, proven effective on other systems, in new ways to create an individually tailored system specifically suited for your application.

We can rely on a large team of talented engineers, programmers, in-house parts manufacturing and a large, well-equipped assembly floor to achieve the best possible solution. For the FAT of your system we can even integrate a complete production line running your mold in our facility.

CUSTOMIZED SOLUTIONS



ASSEMBLY STATION FOR SPECIAL CLOSURES

Assembling of up to 10 components including QC check and cartoning in layers.



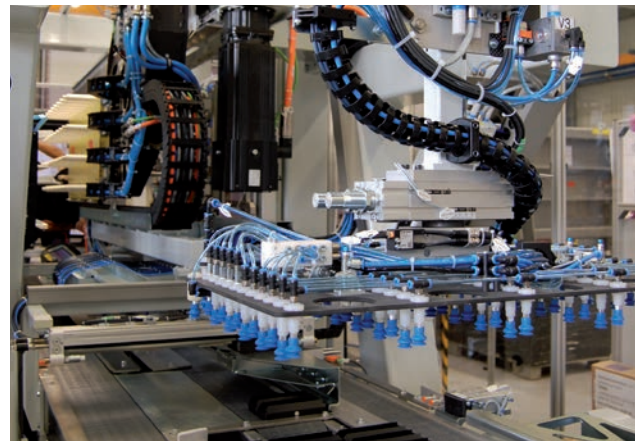
ASSEMBLY MACHINE FOR RECLOSABLE CAN LIDS

Extracting and punching of the raw shells, assembly of multiple closure components with ultrasonic welding. 100% quality inspection of each operation.



CASE PACKING

Robotic placement of stacks into shipping containers.



TAKE OUT ROBOT WITH TRAY LOADING

Inserting of magnets, for over-molding, take out of finished products, QC check, oriented placing into trays and automated tray dispensing / stacking.

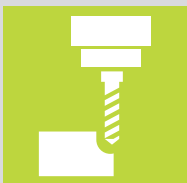


SERVICE for our clients



SPARE PARTS

- Permanent stock of spare & wear parts
- Peripheral equipment & tools



MANUFACTURING

- Format parts manufacturing
- Precision parts manufacturing
- Prototyping



PROJECT MANAGEMENT

- Single point of contact
- Milestone & project schedules
- Planning, organizing, sourcing and managing





DOCUMENTATION AND QUALIFICATION

- DQ, IQ/OQ, PQ
- Change Control Documentation
- Support for full validation process



TECHNICAL SUPPORT & SERVICE

- Telephone support
- Commissioning
- Service agreements
- Trainings, overhauls, relocations
- Maintenance visits



WORLDWIDE AGENCIES

- Local representatives with technical service around the world



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Ilsemann Automation

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Remark: The products shown in this brochure are not exclusively produced with machines of Ilsemann Automation.