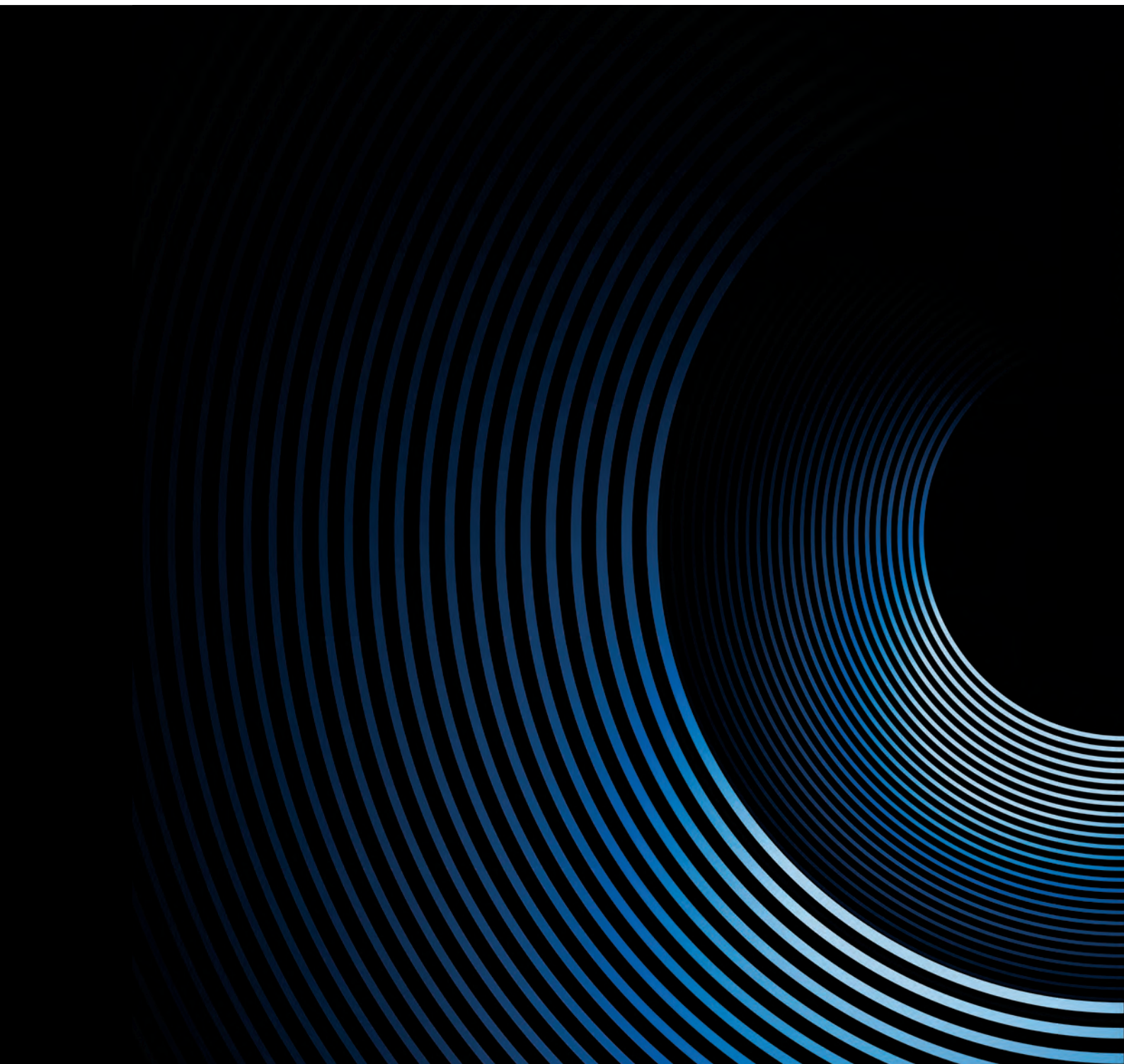


MEDICAL DEVICES

ASSEMBLY SOLUTIONS





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Reinventing Technologies for Medical Devices

IMA MED-TECH is the dedicated business unit of IMA AUTOMATION, specialising exclusively in medical device assembly technologies. With over six decades of experience and a global network of six manufacturing sites, IMA MED-TECH designs and delivers advanced solutions for the assembly of medical devices, drug delivery systems, in vitro diagnostics, point-of-care applications, wearable technologies, pharmaceutical closures, and complete production lines for contact lenses.

The operating model mirrors the sector's globalisation. IMA MED-TECH runs a multi-site organisation with a main contract site ensuring central coordination and unified commercial and contractual management, supported by engineering centres and manufacturing sites across Italy, Switzerland, Malaysia, China and North America.

Supported by a team of more than 600 professionals and over 160 customised lines installed worldwide, IMA MED-TECH stands out for its ability to provide both standardised and ETO (engineer-to-order) solutions. These are enhanced by robotic integration and digital platforms, all developed in strict compliance with industry regulations. Its modular and scalable approach ensures flexibility across production needs, delivering reliability, traceability and quality at every stage.





The top of the page features a dark blue header with the 'IMA DIGITAL' logo in white, sans-serif font. Below the header is a large, atmospheric image of a snowy mountain range. Overlaid on the lower half of this image is a digital graphic consisting of a glowing blue line that follows the silhouette of the mountains, with a grid of binary code (0s and 1s) and faint circuit-like patterns in the background.

IMA DIGITAL

GREEN SOUL, DIGITAL BRAIN

IMA is where
DIGITAL
has become real

IMA Digital represents the epicentre of technological innovation and the cornerstone of digital transformation within the IMA Group. With a holistic approach that encompasses all facets of the industry, this project aims to revolutionise manufacturing by offering advanced solutions for efficient and secure management of production facilities. Designed for both internal use and a global clientele, the solutions proposed by IMA Digital position the company at the forefront of the industrial landscape, combining cutting-edge technologies with an integrated and secure approach. IMA Digital is committed to being a trusted partner, addressing current and future challenges in the sector alongside its customers.

The power of IMA Digital is evident in its commitment to the development and implementation of advanced technologies for plant monitoring, supported by artificial intelligence and machine learning algorithms. This approach, enriched by digital training programs and platforms dedicated to plant management, is supported by a solid technological know-how that constantly enhances production performance.



Supporting **MEDICAL DEVICES** to go beyond

IMA Digital projects include the development and application of artificial intelligence, divided into traditional AI and generative AI. Virtual laboratories provide the ideal environment for the development and testing of traditional AI through pilot projects, while collaborative platforms facilitate the exchange of innovations and solutions among IMA, its partners, and customers. Generative artificial intelligence solutions streamline access to information and contribute to the training of customers operators, speeding up issue resolution.

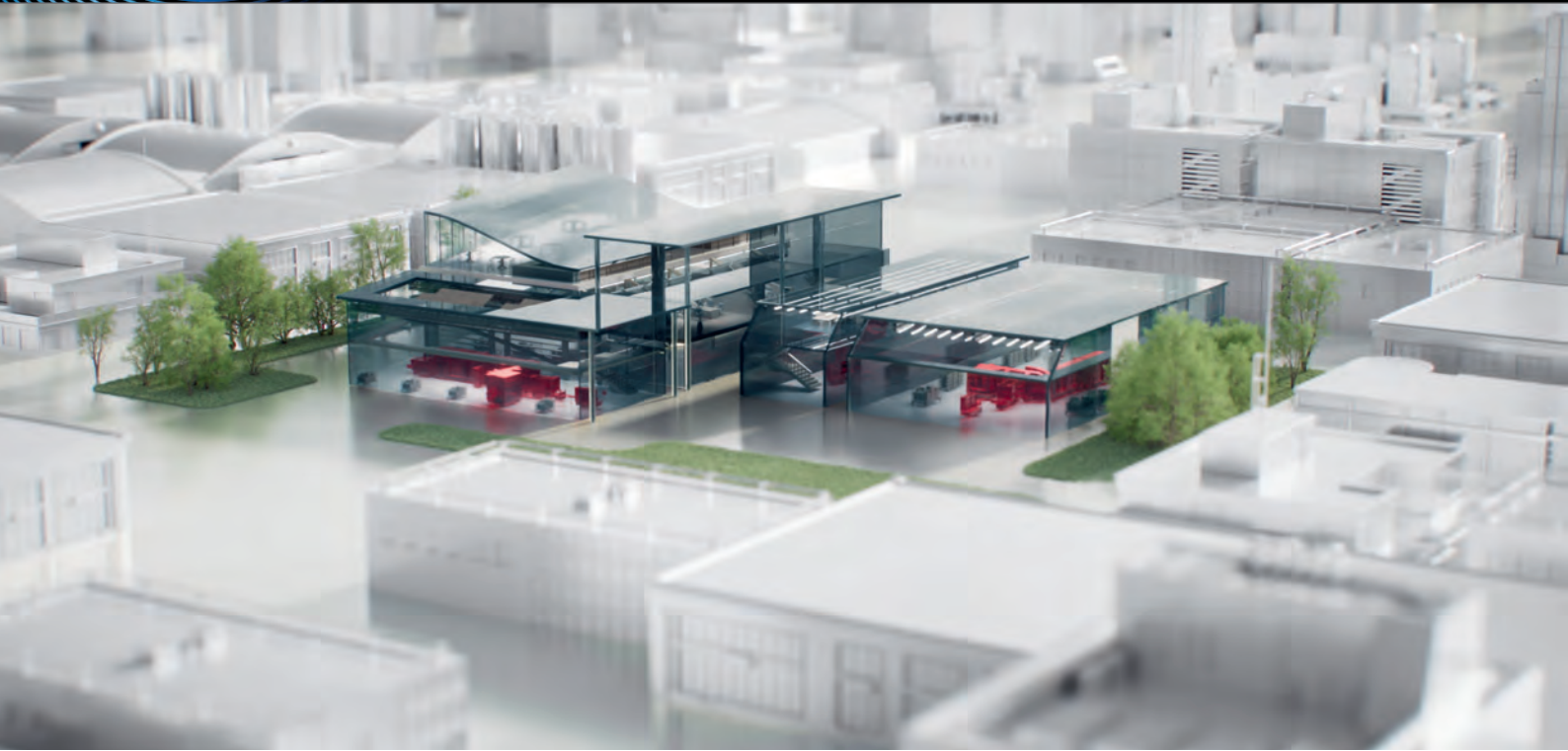
Efforts in the field of artificial intelligence are integrated with services for remote monitoring of production facilities and advanced cybersecurity solutions, crucial for protecting data and ensuring the integrity of industrial operations.

This system ensures the security of digital operations and interactions with machines, creating a secure environment for the flow of strategic data.

In addition to these innovations, IMA Digital offers a wide range of digital services and solutions to improve and simplify the management of installed equipment installed at client sites.

From digital training to e-commerce, the goal is to provide comprehensive support to optimise production operations.

SUSTAINABILITY



IMA is where **SUSTAINABILITY** drives action

Sustainability is the cornerstone of IMA, driving decisions and actions across three essential pillars: people, profit, and the planet. Since publishing its first Sustainability Report in 2013, IMA has remained steadfast in reinforcing a responsible business model, where sustainability is an integral part of its strategy, innovation, and long-term value creation.

Over the years, IMA has turned this commitment into tangible actions, from building production plants that meet stringent environmental standards to designing automatic machines that balance performance, efficiency, and sustainability. By embedding ecological transition principles into product development, IMA actively contributes to global decarbonisation and the circular economy, shaping a more sustainable industrial landscape.

Beyond its direct operations, IMA engages its entire value chain, collaborating with suppliers to promote responsible sourcing and align with the highest environmental and social standards. By integrating sustainability across all aspects of its business, IMA strengthens its leadership in automation while driving measurable progress toward a lower-impact, more efficient industry.



Supporting

MEDICAL DEVICES

to lead with responsibility

Addressing sustainability in the pharmaceutical and medical device technology industry presents distinct challenges, demanding a delicate balance between environmental & social responsibility, product performance (quality & safety), and user experience.

IMA MED-TECH addresses these challenges through ambitious and innovative projects like IMA LOW (Low Impact Program).

Tackling energy efficiency, waste reduction and fostering the use of eco-friendly materials all underscore a commitment to advancing sustainability within the complex landscape of medical device manufacturing.

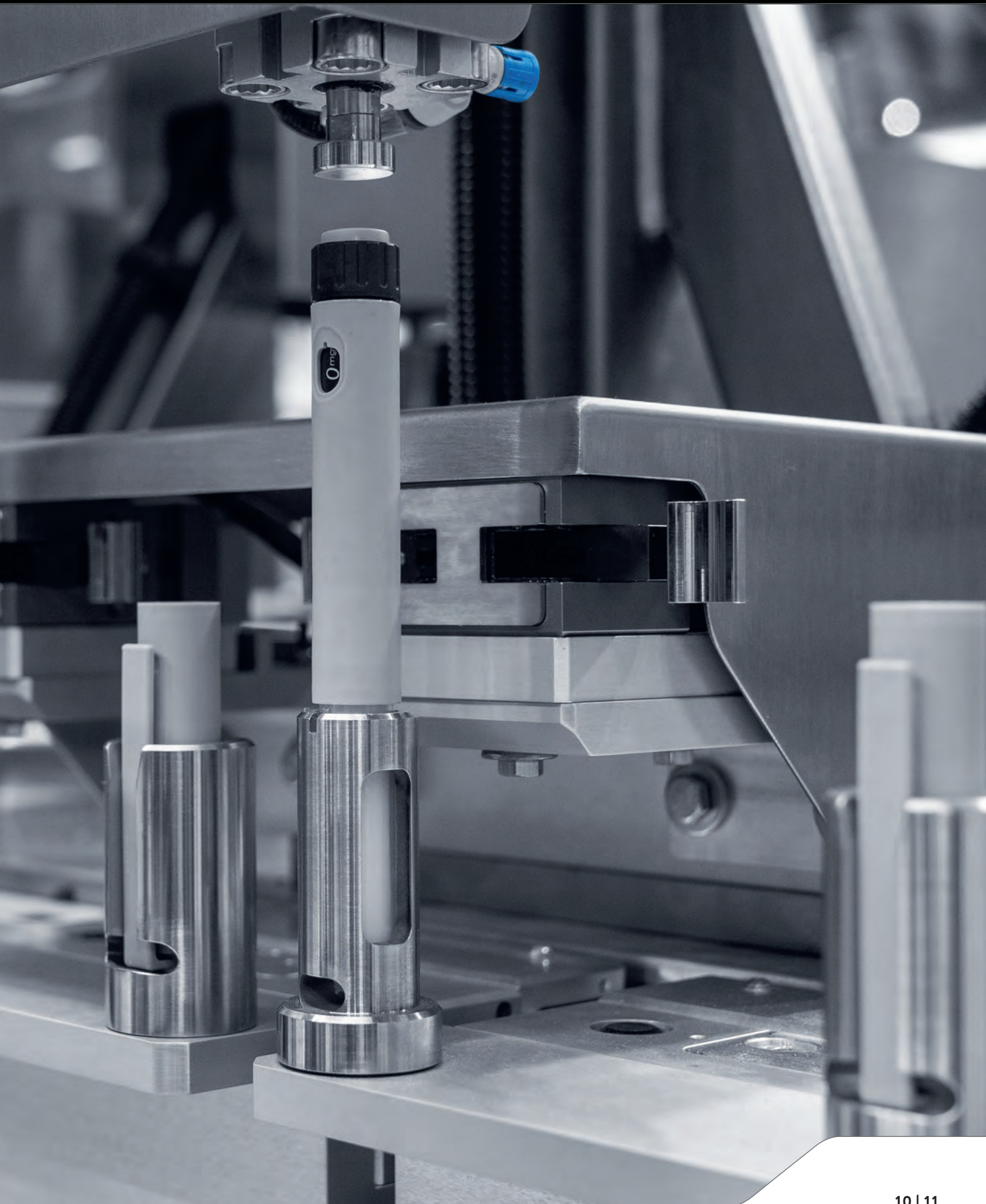
DRUG DELIVERY TECHNOLOGIES

For medical devices

PRECISION, MODULARITY, SAFETY
AND PERFORMANCE AT EVERY STEP.
IMA MED-TECH DELIVERS
CUTTING-EDGE SOLUTIONS FOR THE
AUTOMATED ASSEMBLY OF DRUG
DELIVERY DEVICES.

BY COMBINING STANDARD
PLATFORMS WITH CUSTOMISED
ENGINEER-TO-ORDER SOLUTIONS,
IMA MED-TECH ENSURES FLEXIBILITY,
SCALABILITY AND RELIABLE PROCESS
CONTROL ACROSS THE ENTIRE
PRODUCTION FLOW.





DRUG DELIVERY TECHNOLOGIES

For medical devices

Injectables

In the field of drug delivery, IMA MED-TECH has developed extensive expertise in the automated assembly of pens and autoinjectors. Its lines incorporate systems for de-nesting pre-filled syringes, modules for final assembly, and solutions for drug handling.



Each phase is engineered to ensure maximum precision and safety, with particular attention to the management of sensitive components such as needles and safety devices.

Inhalers

For inhalers, the company offers highly versatile platforms designed to meet the challenges of developing and manufacturing MDI, DPI, SMI and e-haler devices.



These systems integrate flow and leak testing, powder dosing, printing and functional checks, ensuring high performance and regulatory compliance.



CONTACT LENS & IOL SOLUTIONS

IMA MED-TECH ENSURES ADVANCED PROCESSES AND PRECISION IN EVERY PHASE OF EYE CARE DEVICE PRODUCTION.

PROCESSING, HANDLING, ASSEMBLY AND PACKAGING SOLUTIONS, OFFERING A TURN-KEY APPROACH FOR CONTACT LENS AND INTRAOCULAR LENS (IOL) MANUFACTURING.

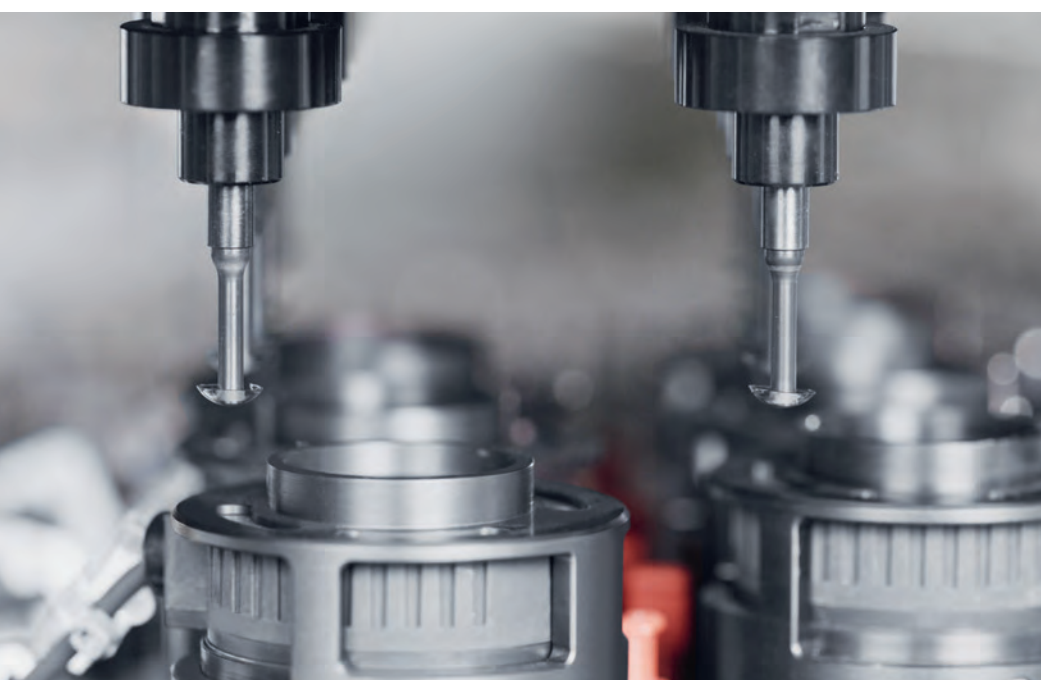
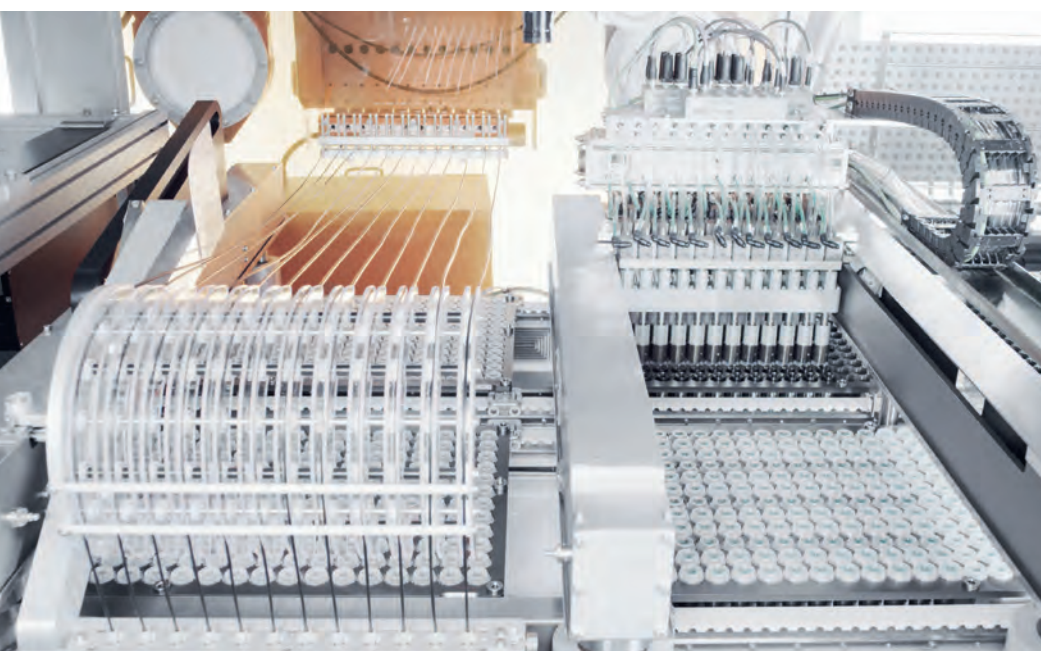




CONTACT LENS & IOL SOLUTIONS

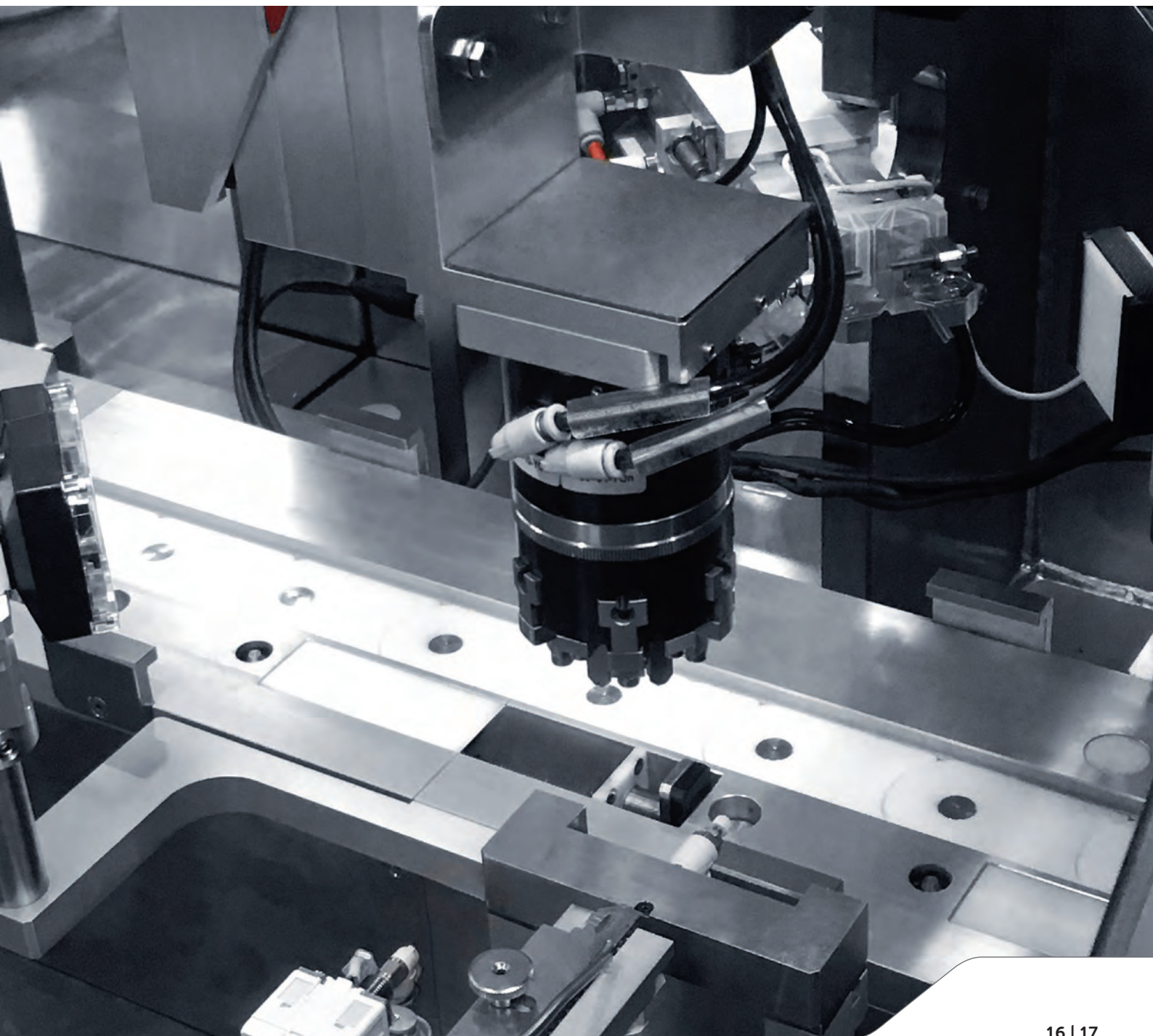
Contact lenses

IMA MED-TECH provides comprehensive solutions for the processing and packaging of contact lenses. Its lines are designed to efficiently manage every stage of production—from monomer dosing and demoulding to conditioning, hydration and primary packaging. Robotic handling, laser marking and inspection systems ensure flexibility and rapid format changeovers.



Intraocular lenses (IOLs)

In the ophthalmic sector, the company has gained significant experience in the production of intraocular lens inserters. Technologies employed support complex operations such as vacuum silicone filling, O-ring assembly, in-line spring forming and UV inspection, guaranteeing product quality and process reliability.



WEARABLE & ON-BODY DEVICES

Monitoring

With the rise of wearable technologies, IMA MED-TECH has developed advanced assembly solutions for continuous monitoring systems (CGM) and drug delivery devices such as patch pumps. These lines combine electronic, plastic and metal components, integrated PCB handling, connectivity testing and traceability systems.

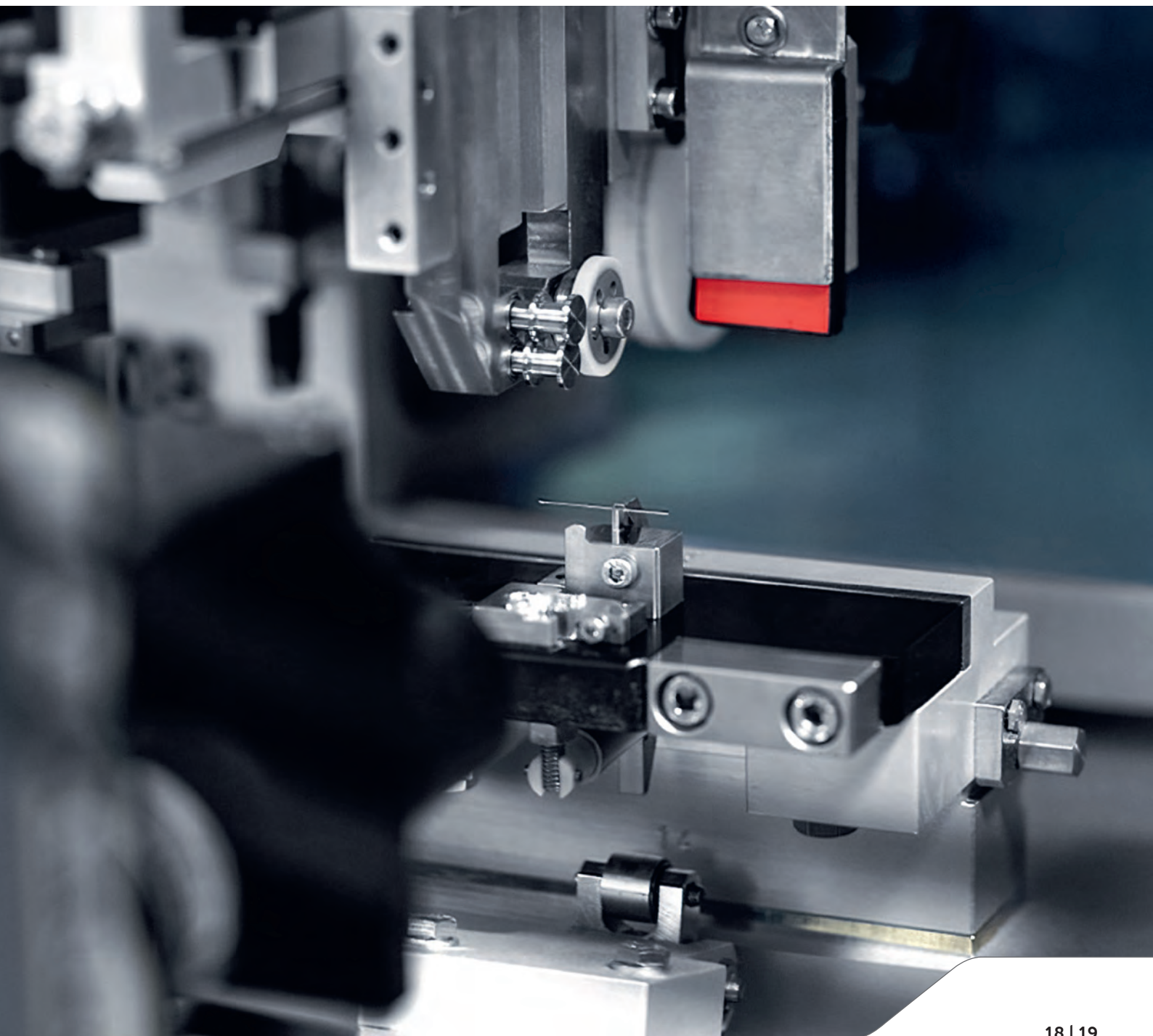


SMART INTEGRATION FOR WEARABLE HEALTHCARE SOLUTIONS.

IMA MED-TECH ENGINEERS RELIABLE, HIGH-PRECISION
PLATFORMS DESIGNED TO SUPPORT NEXT-GEN ON-BODY
MONITORING AND DRUG DELIVERY SYSTEMS.

Delivery

In-house expertise includes needle bending, siliconisation, occlusion testing and modular assembly, delivering robust and reliable systems for high-volume production.



DIAGNOSTIC DEVICES

In Vitro

IMA MED-TECH develops cutting-edge technologies to support laboratory-based diagnostic processes. The systems are designed to handle every critical step with precision and reliability, from sample collection and vial filling to reagent kit preparation and sophisticated sample storage solutions. Each platform ensures seamless integration with downstream processes, guaranteeing compliance with stringent laboratory standards while optimising efficiency.



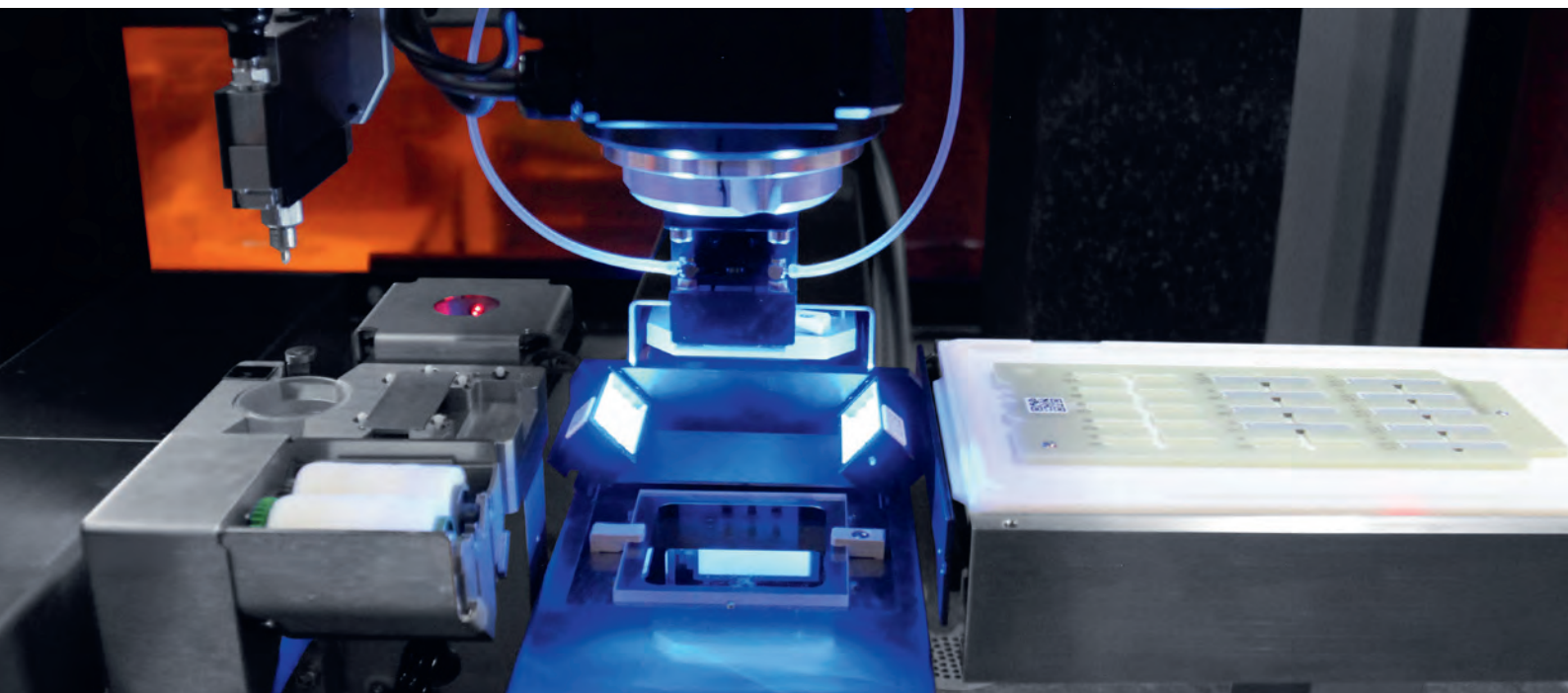
RELIABLE PERFORMANCE FOR LIFE-CRITICAL DIAGNOSTICS.

Key processes include labelling, downstream process integration, pipette and cuvette inspection, and accurate reagent dosing.

These capabilities make IMA MED-TECH solutions ideal for high-throughput environments where accuracy and repeatability are paramount.

Point of Care

IMA MED-TECH offers flexible and highly efficient production lines tailored to the Point of Care (POC) market. The solutions enable the assembly and testing of innovative PCR cartridges and other compact diagnostic devices, combining speed with uncompromising precision.



Key processes include vision detection for needle bending, O-ring placement, lyophilised cake positioning, foil cutting and welding, and desiccant dosing.

These technologies ensure that every component is handled with care, delivering reliable performance for urgent diagnostic needs and decentralised healthcare models.

TUBING SETS

Infusion sets

IMA MED-TECH leverages state-of-the-art customised platforms to deliver automated assembly and testing solutions for infusion sets. These systems ensure seamless integration of components and guarantee compliance through rigorous pull and leak testing. Designed for flexibility, they accommodate multiple configurations while maintaining exceptional reliability and throughput.



FLEXIBLE, HIGH-SPEED ASSEMBLY
FOR FLUID MANAGEMENT.
IMA MED-TECH ENSURES
CONSISTENCY AND CONTROL
IN EVERY CONNECTION.

Key processes include coiling modules, datum pull-up, component loading, vision-based presence checks, solvent dipping and packaging transfer.

Alternative configurations such as end caps, closing cones, roller or pinch clamps, cohesive tape application and PE banderoles provide for adaptability to diverse production needs.

Extension sets

IMA MED-TECH offers systems capable of assembling a wide range of extension set variants with speed and precision. These platforms integrate automated reel changeover, variable tube length handling and advanced bonding technologies, including solvent dipping or UV glue dispensing. Vision inspection and automatic coiling ensure consistent quality, while PE banderole application completes the process for secure packaging.



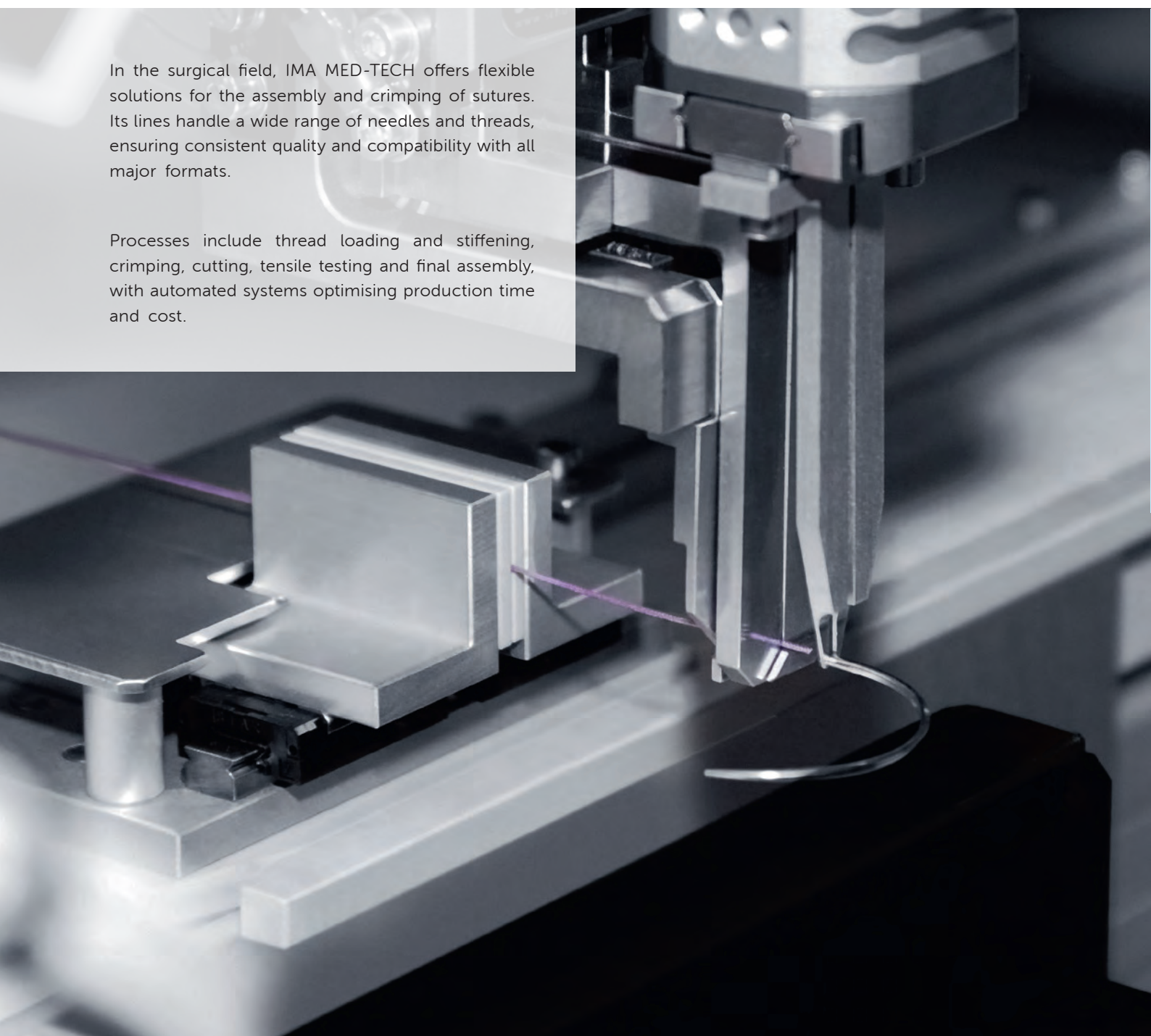
Every detail is engineered to optimise efficiency and maintain product integrity, supporting manufacturers in meeting stringent standards across global markets.

SURGICAL INSTRUMENTS

PRECISION ENGINEERING FOR SURGICAL EXCELLENCE.
RELIABILITY AND PERFORMANCE IN SUTURE ASSEMBLY SOLUTIONS.

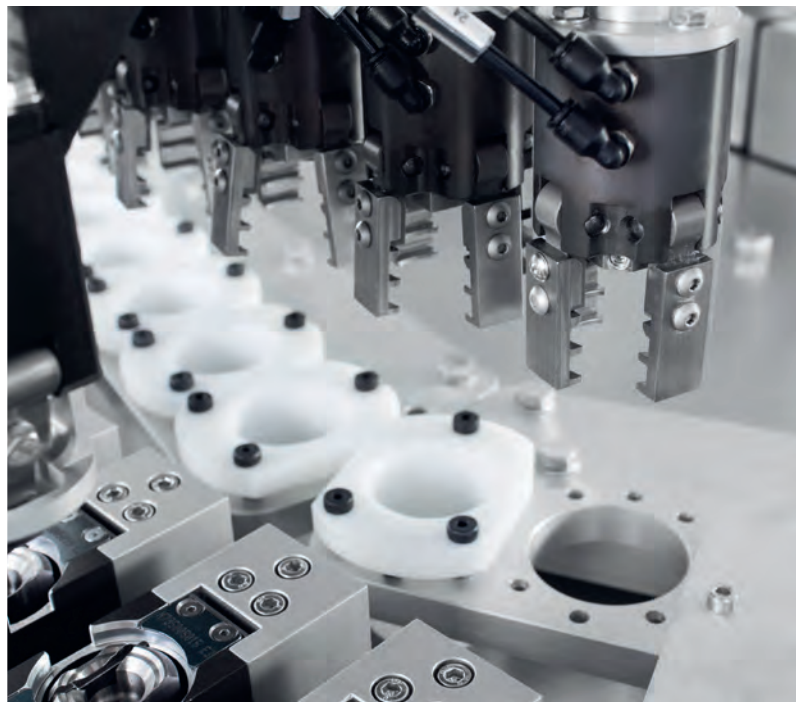
In the surgical field, IMA MED-TECH offers flexible solutions for the assembly and crimping of sutures. Its lines handle a wide range of needles and threads, ensuring consistent quality and compatibility with all major formats.

Processes include thread loading and stiffening, crimping, cutting, tensile testing and final assembly, with automated systems optimising production time and cost.



PHARMA CAPS & CLOSURES

COMPACT DESIGN, HIGH-SPEED PERFORMANCE. IMA MED-TECH EXCELS IN THE ASSEMBLY OF CLOSURES AND DISPENSING SYSTEMS.



IMA MED-TECH's extensive experience in assembling child-proof closures and nasal sprayers translates into compact, high-performance platforms. These lines are designed to handle large volumes of complex products, featuring electronic movements and integrated functional testing.

Operations include leak testing, functional checks, oriented and pressed assembly, cutting and screwing, ensuring safety and reliability.



INTEGRATED SOLUTIONS

For Pharmaceutical and Med-Tech industries

ONE SYSTEM, ONE VISION.

IMA MED-TECH INTEGRATES TECHNOLOGIES ACROSS THE
IMA GROUP TO ENABLE COMPLETE PRODUCTION ECOSYSTEMS.

Through close collaboration with IMA Pharma divisions, IMA MED-TECH provides fully integrated solutions covering the entire production process, from liquid and powder filling to assembly, packaging and end-of-line operations.

Each system is designed to seamlessly connect automation, traceability and packaging within a modular, scalable workflow.

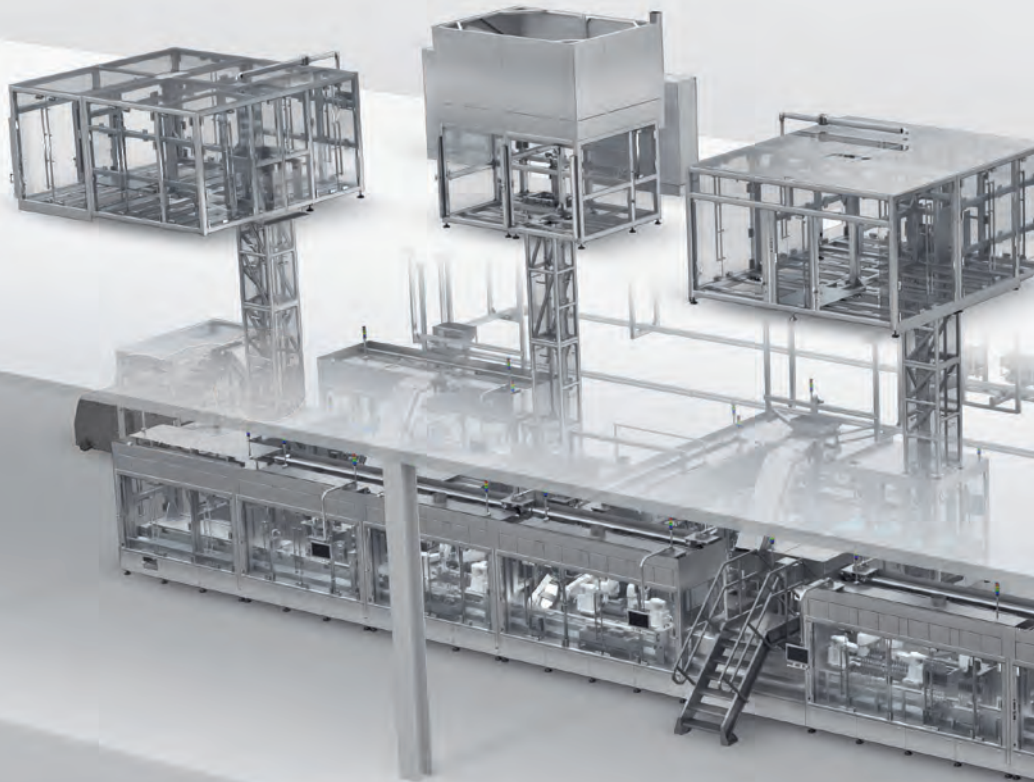
The turnkey project approach streamlines implementation and coordination across all production phases. This integrated vision enhances efficiency, reduces waste and ensures maximum reliability, even in highly regulated and complex environments.



**LIQUID AND
POWDER FILLING**

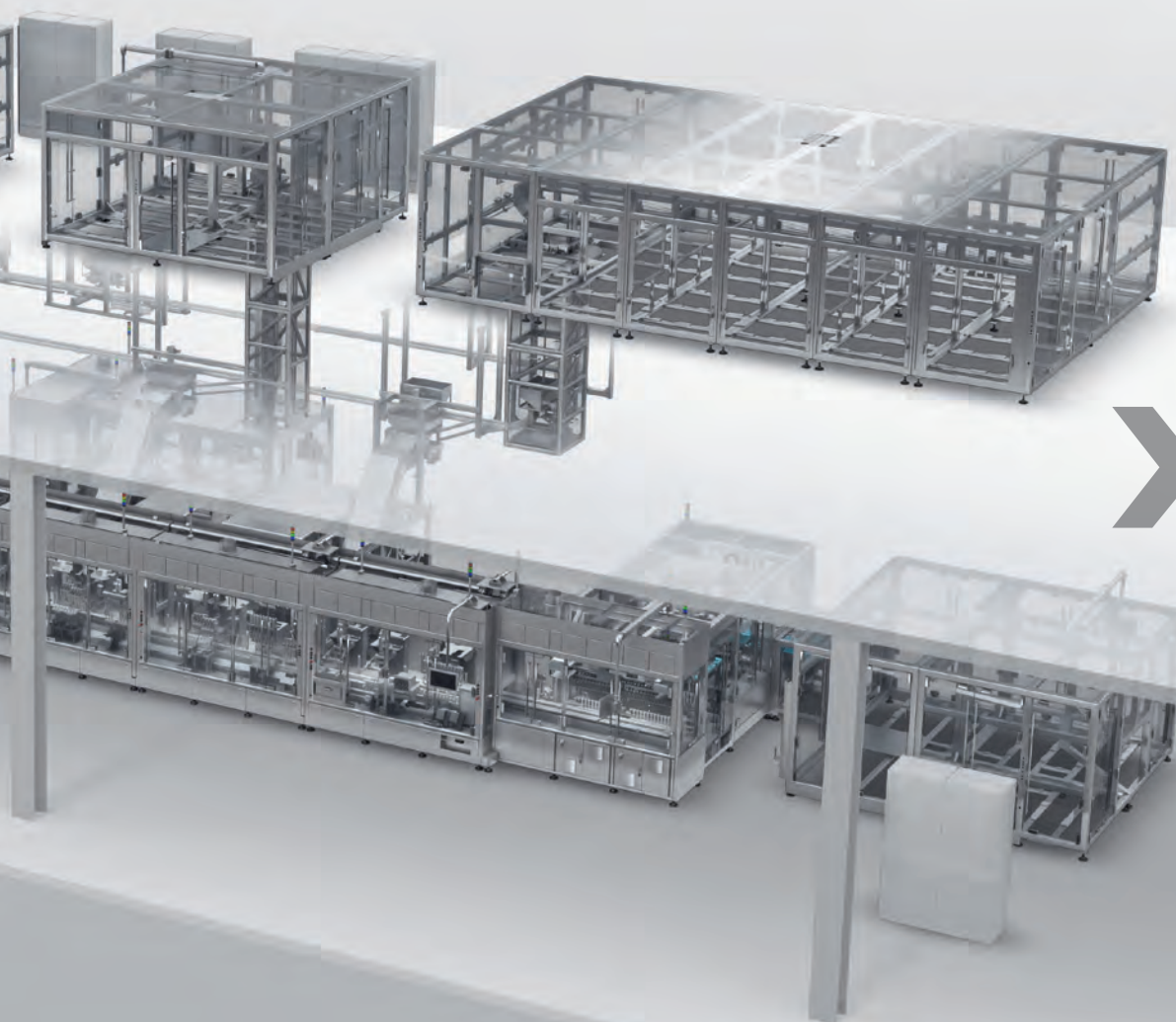


**SOLID DOSE
PROCESSING**





ASSEMBLY



PACKAGING



END OF LINE

imaautomation.com

