

WATCHMAKING

ASSEMBLY SOLUTIONS



IMA  **AUTOMATION**

IMA AUTOMATION FLAWLESS ASSEMBLY

IMA AUTOMATION IS THE SEGMENT OF IMA GROUP COMPOSED OF LEADING COMPANIES IN THE AUTOMATION AND ASSEMBLY INDUSTRY, WITH OVER 50 YEARS OF EXPERIENCE.

With its integrated network of companies which guarantees a worldwide coverage, IMA Automation designs and manufactures advanced technology lines for handling and assembling parts for different applications fields, such as Automotive, E-Mobility, Electrical Motors, Medical Devices, Eye Care, Caps & Closures, Electro Mechanics and Watchmaking.

IMA Automation companies have developed top-of-the-line technical skills, earning excellent market reputations and positioning themselves as leaders among those offering specialized technological solutions. IMA Automation hub is a perfect addition to the already consolidated packaging experience of IMA, allowing a synergy in the sharing of clients and widening our offer of technological solutions.



AUTOMOTIVE



EYE CARE



E-MOBILITY



CAPS & CLOSURES



ELECTRICAL MOTORS



ELECTRO-MECHANICS



MEDICAL DEVICES



WATCHMAKING

IMA, A SOLID LEADING GROUP IN PROCESSING, PACKAGING & AUTOMATION

Established in 1961, with the headquarters in Bologna, Italy, IMA is world leader in the design and manufacture of automatic machinery for processing, packaging and assembling products for several application fields. With a turnover of more than 1.600 million euros and 6000+ employees, the Group is present in about 80 countries, supported by a sales network made up of several branches, representative offices in central-eastern Europe and more than 50 agencies. IMA Group has more than 40 production plants in Italy, Germany, France, Switzerland, Spain, the UK, the USA, India, Malaysia, China and Argentina.



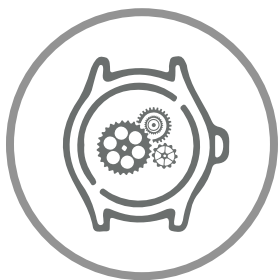
**A WIDE NETWORK OF LEADING COMPANIES,
A UNIQUE EXCELLENT OFFER.**



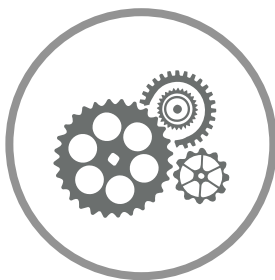
ADVANCED WATCHMAKING FROM WITHIN

HIGH-PRECISION ASSEMBLY SOLUTIONS

IMA Automation has deep roots in the watchmaking industry. We have built-up a wide experience and a unique know-how in the automation of watchmaking processes, as well as in precision assembly, handling and measurement of delicate watch components.



GARNISSAGE



WATCH MOVEMENT



WATCH HEAD



BRACELET



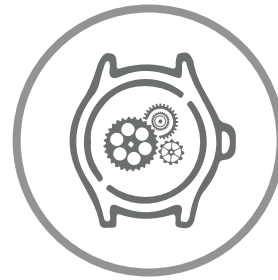
A LONG EXPERIENCE IN MICRO TECHNOLOGY

The most common automated processes include assembly and control of complete watch movements and bracelets, manipulation of delicate parts and springs, press fitting with force and position control (garnissage) and marking of watch faces.

GARNISSAGE

IMA AUTOMATION has a solid expertise in manipulation and assembly of delicate watch parts.

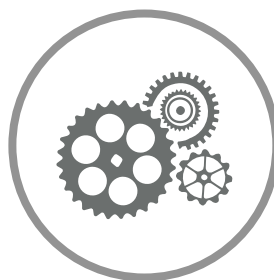
- PRESS-FITTING AND INSERTION OF MINIATURE COMPONENTS ONTO THIN OR DELICATE FIXTURES.
- COMPENSATION OF HIGH COEFFICIENTS OF DEFORMATION.
- RECIPE BASED PROCESSING FOR HIGHEST PRODUCTION FLEXIBILITY.



WATCH MOVEMENT

Strong competence in assembly of complete watch movements and other watchmaking mechanisms, such as:

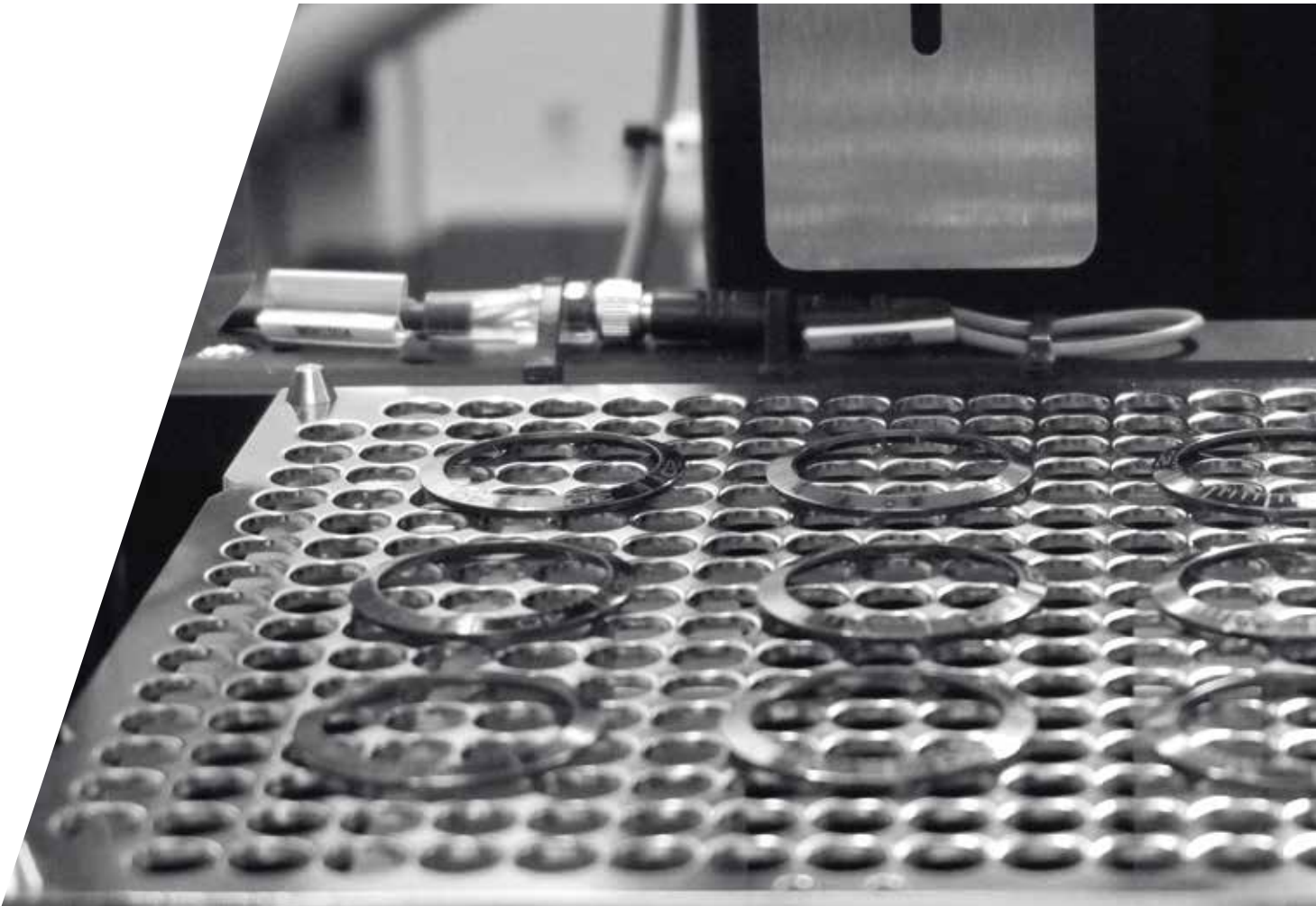
- GEARS
- BALANCE PALLET
- SPRINGS
- BARREL



WATCH HEAD

Manipulation and testing of nearly and fully finished watch heads.

- EXTERNAL PARTS
- LASER FOR ENGRAVING AND CUTTING SAPPHIRES
- TESTING EQUIPMENT SUCH AS FUNCTIONAL TEST, AUTOMATIC WATCH WINDING AND LEAK TESTING



BRACELET

IMA AUTOMATION experience in the watchmaking sector also includes the handling and assembly of watch bracelet components, such as:

- SCREWING
- CLEARANCE ADJUSTMENT
- DISPENSING
- LASER WELDING



ASSEMBLY LINES

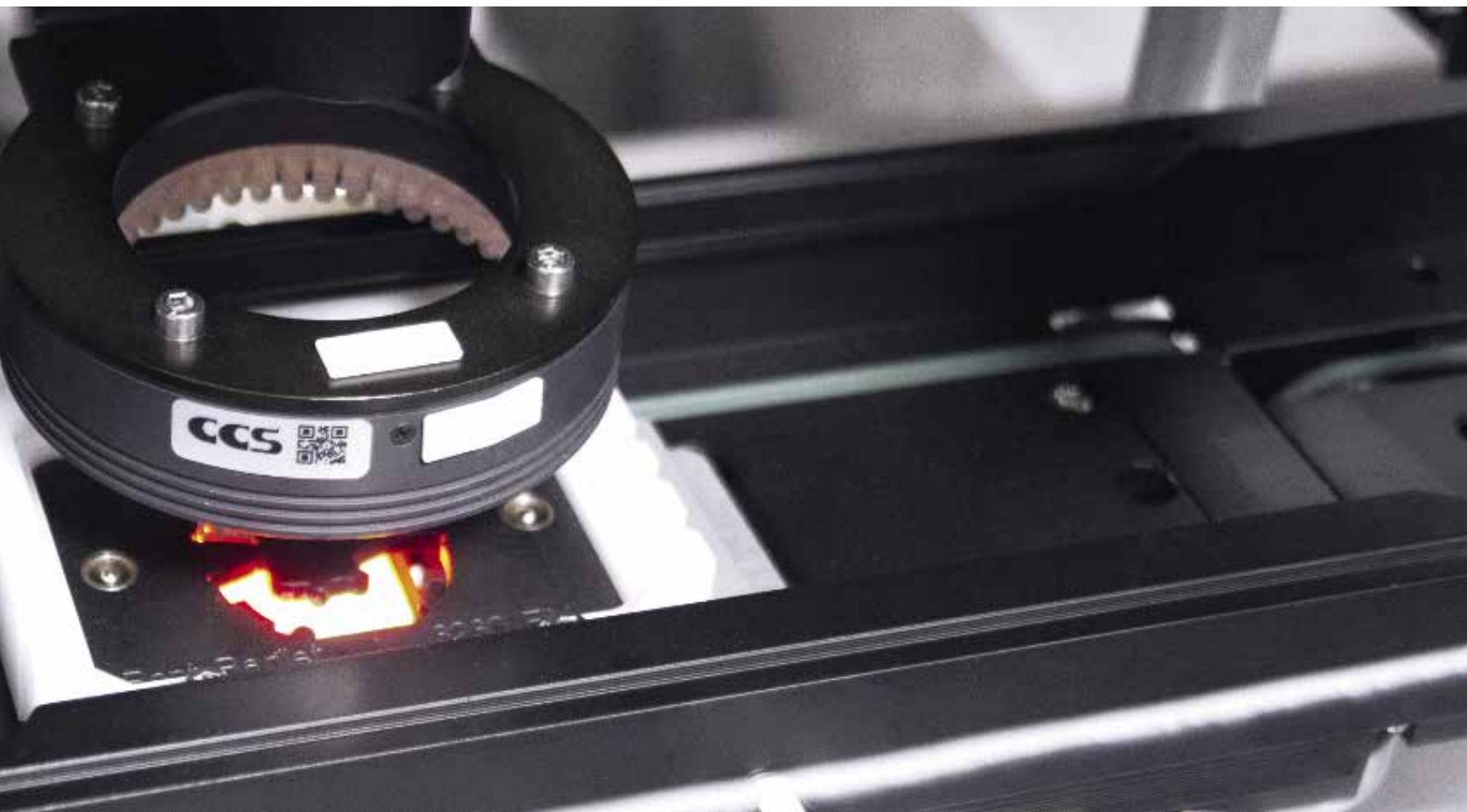
HIGH-VOLUME AND LOW-VOLUME PLATFORMS ABLE TO ACCOMODATE NEARLY ALL PRODUCTION CHALLENGES AND TRACEABILITY REQUIREMENTS FACED BY THE WATCHMAKING INDUSTRY TODAY.



MICRO LINEAR

Micro Linear is our base machine dedicated to volume and flexible production, it is a perfect fit for watchmaking processes.

- Traceability & RFID
- Precision press with repetition accuracy of $\pm 5\mu\text{m}$ with Cpk of 3 sigma
- Multivariant production
- Flex tubes, feeders and other accessories
- Industry 4.0
- Cycle time: between 10 and 20 seconds



MICRO PILOT

Micro Pilot is dedicated to flexible and multi-variant production. Featuring a high rigidity base and precision robotics, it is a perfect fit for watchmaking processes.

- Welded steel frame and integrated granite structures for highest precision and rigidity
- Multiple options for processes, feeders and accessories
- 4 sided access
- Industry 4.0
- Cycle time: more than 20 seconds

imaautomation.com



IMA Automation Switzerland SA
Allée du Quartz 12,
2301 La Chaux-de-Fonds, Switzerland
Tel: +41(0)32 924 71 11
info.automation.ch@ima.it