

CAPS & CLOSURES

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.**



YOUR STRATEGIC PARTNER FOR CAPS & CLOSURES ASSEMBLY

IMA Automation has undeniably proven as one of the most innovative world leader in the field of assembly solutions for caps & closures: from designing to manufacturing, when it comes to caps & closures we've tackled the needs and demands of hundreds of customers.

Whether it's food & beverages, personal care & home care or pharma products, we've always gone the extra mile to make sure our assembly machines were in compliance with the strictest requirements regarding flexibility and re-usability. With many years of experience, drive for improvements and focus on specialization based on customers' feedbacks, we have taken assembly machines to the next level



FOOD & BEVERAGES

- CARTON FITMENTS
- SPORT CAPS
- LIQUOR CLOSURES
- EDIBLE OIL CLOSURES
- FLIP TOP VALVES
- WELD SPOUTS



PERSONAL & HOME CARE

- SPRAY ACTUATORS
- PUMP DISPENSERS
- TRIGGER SPRAYERS





**A LONG EXPERIENCE IN ASSEMBLY
SOLUTIONS FOR FOOD & BEVERAGES
AS WELL AS FOR PHARMA AND
PERSONAL & HOME CARE CLOSURES.**

PHARMA

- MEDICAL CLOSURES
- CHILD-PROOF CAPS
- NASAL SPRAYERS

ASSEMBLY PLATFORMS CONTINUOUS AND INDEXING MOTION

Each assembly system consists of a platform that forms the basis for a made-to-measure answer to specific needs. Stations and assembly technologies are added in accordance with customer requirements.

All technological platforms designed by IMA Automation Telerobot are a step up from the most advanced electronic and mechanical automation technologies available on the market. This is why we call our technology "Advanced Assembly Technology".

Astoundingly efficient machinery with production speed of up to 120.000 Pcs/h.



Pressing



Screwing



Oriented pressing



CONTINUA

High-speed continuous motion rotary machine

Standard assembly platform, based on space-saving design and ideal for the assembly of large quantities of complex, market-ready products up to 80,000 pcs/h.

Table unit is designed to enable full flexibility of the system configuration, facilitate maintenance and service operations and is suitable for subsequent upgrading. Assembly features: insertion, screwing, oriented insertion. Other operations performed: cutting, rolling, leak testing, camera system for quality inspection. Basic machine configuration will allow the handling up to 5 components to be reciprocally assembled using rotating turret and spindles.



ELEKTRA

Electronically-driven continuous motion machine

Fully electronic solution with continuous movement to address the growing need for maximum flexibility and reusability.

ELEKTRA assembles complex caps and closures on numerous product categories, such as carton fitments, push-pull, sport-caps, safety closures and non-refillable closures. ELEKTRA has extremely high flexibility and limited number of spare parts to be replaced thanks to the electronically programmed servo spindle, able to perform any one of the following assembly operations, such as pressing, screwing and oriented pressing. Or a combination of all three.



EASY SMART

Continuous motion machine with fixed driving cams

Simple machine, turning a standard concept into real value in terms of reduced lead times, space efficiency and easy maintenance.

EASY SMART has a fixed driving cam and is ideal for simple assembly operations. It's quick to design and install, and a smart solution ensuring low operating noise.

It performs conventional pressing for oil caps, sport caps and push-pull closures, up to 3 components.

EASY SMART is able to perform operations of pressing, folding and leak testing.



EVO FLEX ROTARY

Indexing motion rotary machine

The ideal platform for assembling large numbers of complex products, with several shapes and components, such as spray actuators, pumps or triggers.

It features an innovative combination of torque driven turntable and servo-controlled pick & place for vertical, horizontal and tilting movements.

Fully electronic, it's quick to install, easy to configure and the best way for the market to respond to customers who are seeking for new levels of customisation.

Stations and assembly technologies can be added to suit customer requirements.

PRESSING





PRESSING

Mechanical-Cam-driven vertical movement. Picking up by means of vacuum control or interference fit gripper/terminal.



SCREWING





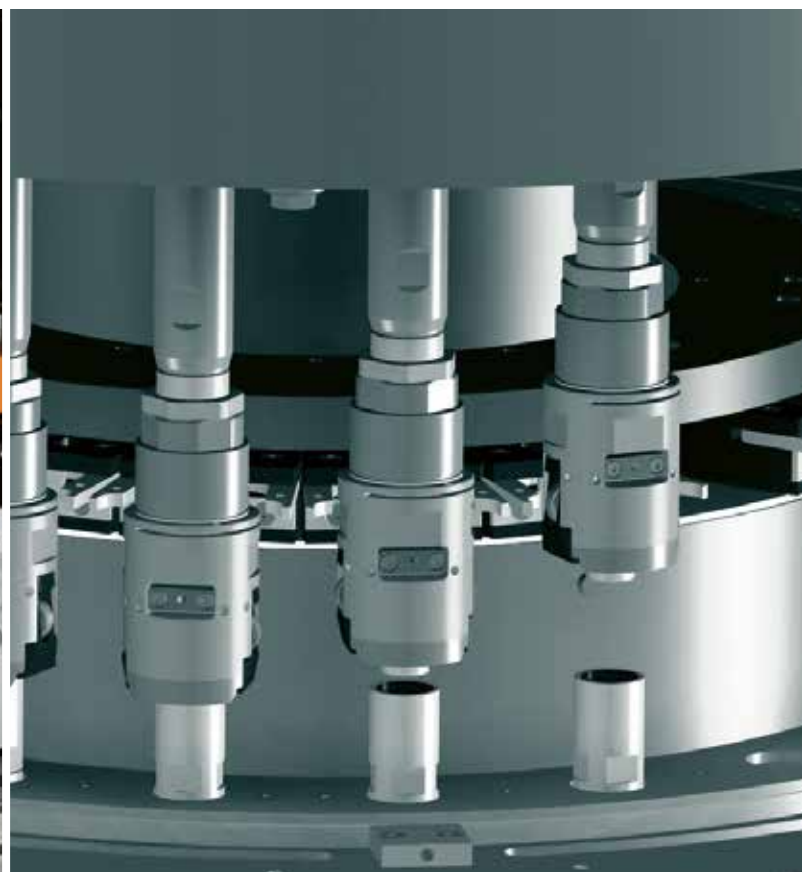
SCREWING

Adjustable-speed screwing machine with hysteresis magnetic friction. Picking up by means of vacuum control or interference fit gripper/terminal.



ORIENTED PRESSING





ORIENTED PRESSING

Pressure assembly with angular orientation through the implementation of cameras and servo-controlled mandrels. Picking up by means of vacuum control or interference fit gripper/terminal.



ASSEMBLY LINES



ASSEMBLY LINES

For liquors and customized closures

Two or more machines can be integrated in the same assembly line for multi-components closures. We strive to meet all of our customers' needs with our highly customizable solutions.



CLOSURES FOR LIQUORS



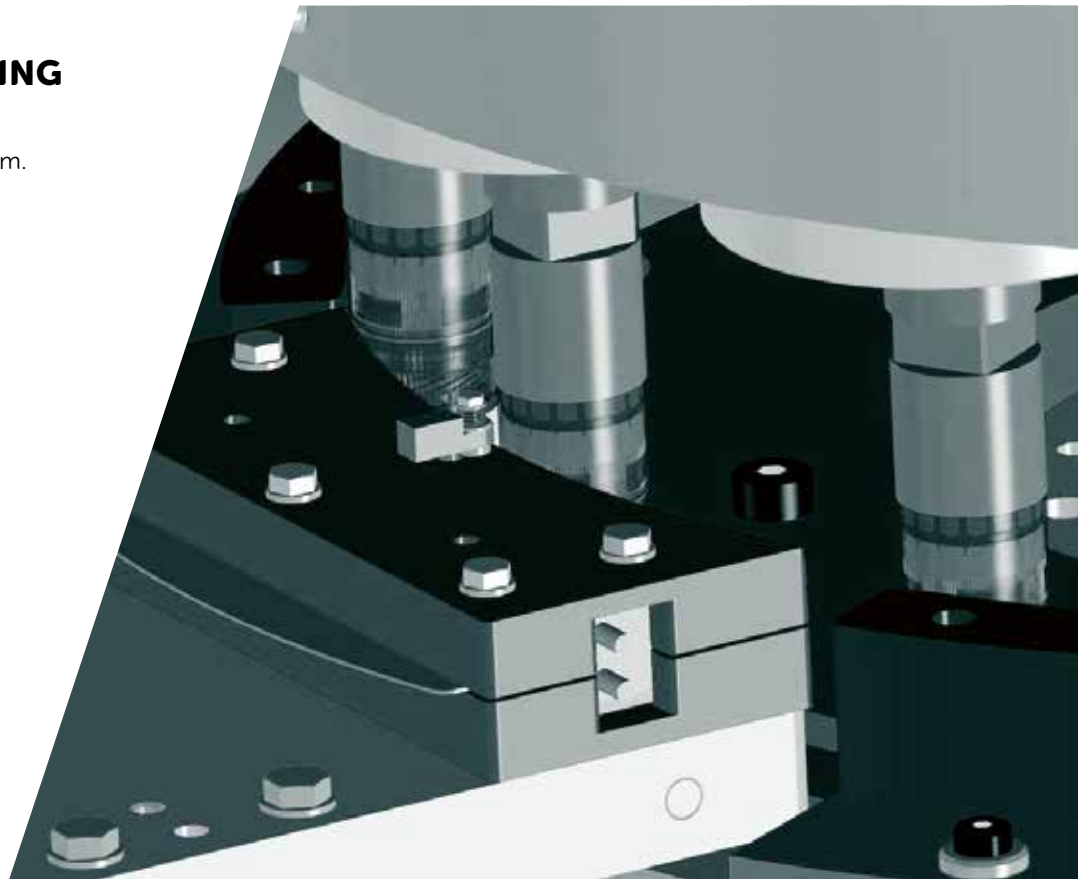
CUSTOMIZED CLOSURES



KEY PROCESSES

TAMPER EVIDENT CUTTING AND FOLDING

Both for plastic material and aluminum.



QUALITY CHECKS

- SPARK TEST: 100% HIGH VOLTAGE TEST FOR THE PRESENCE OF MICRO-HOLES
- LEAK TEST: 100% VACUUM OR PRESSURE CHECK FOR THE PRESENCE OF SMALL LEAKS
- CAMERA INSPECTION: TESTING THE COMPONENT'S PRESENCE, SHAPE AND ASSEMBLY



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