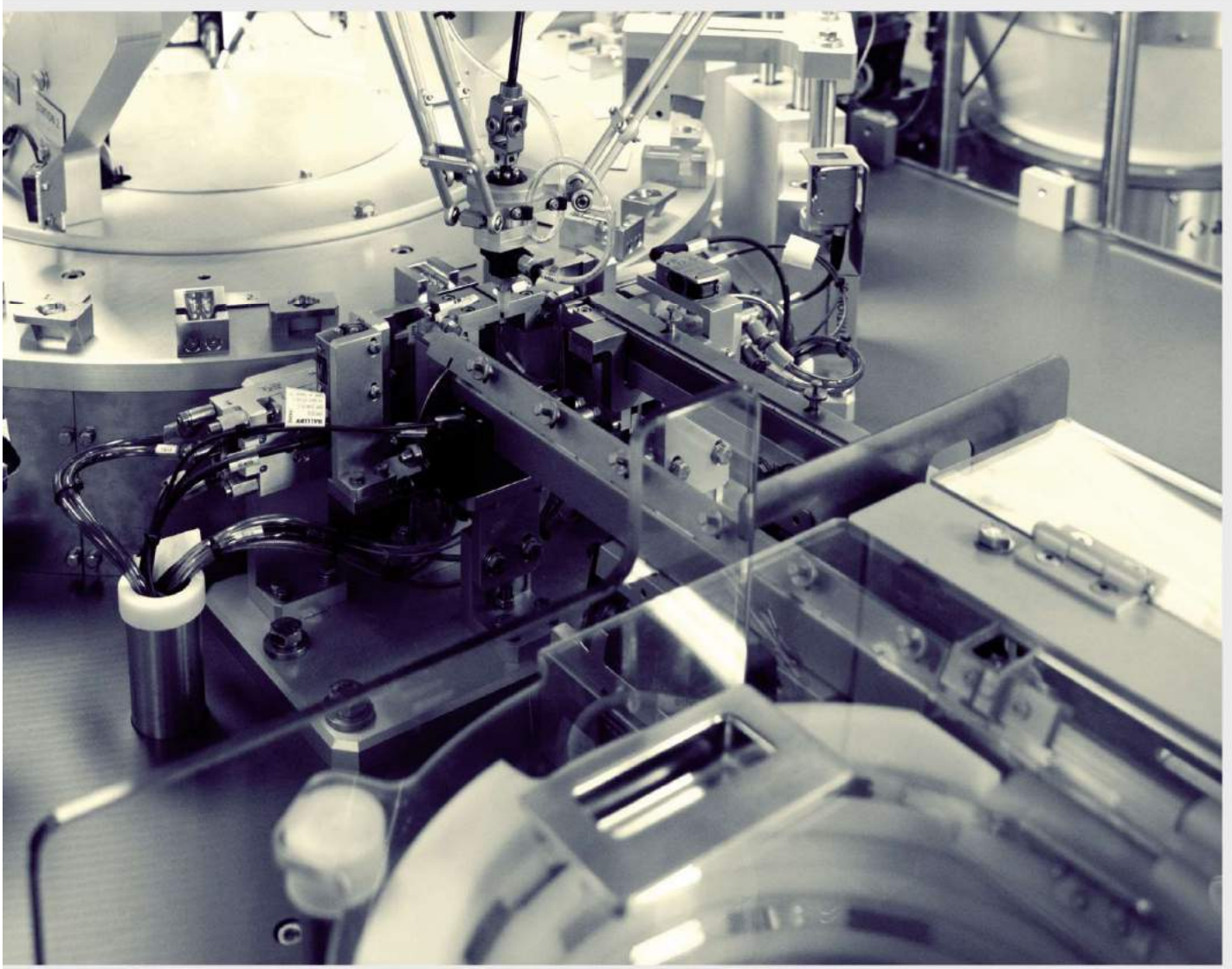




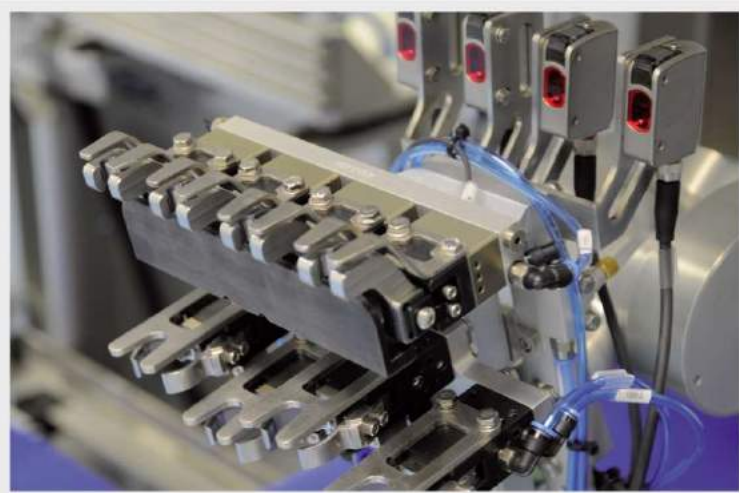
WARD automation

Collaborate | Innovate | Automate



As a high-quality manufacturer of ingenious automation solutions on a global scale, we specialise in developing the following automation machines and solutions:

- Assembly Machines and Automation Solutions
- Liquid Filling Machines
- Minimally Invasive Device Equipment
- Pharmaceutical and Biologics Equipment
- Robotics
- Proof of Concept Development
- Testing and Inspection Equipment
- Build to Print Equipment



Our Quality Commitment

As a global manufacturer supplying some of the world's largest multinational companies, we are committed to delivering high-quality automation solutions which perform to the highest standards - and which meet our customers' expectations every time.

To ensure that we deliver on our quality commitment, we are wholly committed to continually improving our quality system, in accordance with the requirements of ISO 9001.

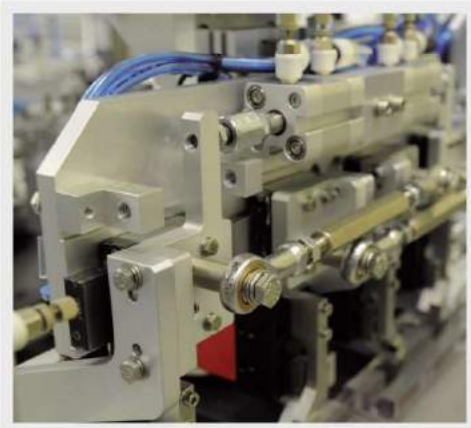
Finally, because all our processes and procedures follow GAMP 5 guidelines, 'Quality By Design' is a fundamental principle which is adhered to by every member of our team, at every stage of the manufacturing process.



WARD automation

Established in 1995 in Ireland, Ward Automation is a leading manufacturer of world-class automation equipment.

We provide exceptional automation solutions for multinational companies in the medical device, pharmaceutical, and manufacturing industries, and are renowned for delivering innovative, high-tech solutions for customers all around the world.



GET IN TOUCH

If you are looking for a high-quality automation solution, or you would like to find out more about the range and type of solutions we offer, please get in touch and we will be delighted to assist you.

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Sligo, Ireland
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Phone: +353 (0)71 9150039
E-mail: info@wardautomation.ie
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Galway, Ireland
H91 EY04

Phone: +353 (0)91 769100
E-mail: info@wardautomation.ie
Website: www.wardautomation.ie

Assembly Machines and Automation Solutions

We are renowned for our ability to build bespoke assembly machines and automation solutions for the medical device, pharmaceutical, and high-end manufacturing industries.

With our extensive in-house expertise, we offer automation solutions from initial design concept stage through to final commissioning and validation.

OUR MACHINE PLATFORMS INCLUDE:

- Rotary index tables
- Linear indexing
- Mechanical cams
- Walking beam
- Pallet systems
- Intelligent track systems
- Continuous motion
- Robotic cells

TYPICAL PROJECTS IN THIS AREA INCLUDE:

- Component assembly
- Tube coiling and assembly
- Label print and application
- Catheter assembly
- Medical bag folding
- Testing and inspection equipment

KEY TECHNOLOGIES INCLUDE:

- Ultrasonic and laser cutting
- Welding – RF, ultrasonic, induction etc.
- Adhesive dispensing
- O-ring assembly
- UV curing
- Impulse and solid-state sealing
- Printing – inkjet, hot foil, thermal, laser etc.



Pharmaceutical and Biologics Equipment

Ward Automation have developed a reputation for delivering the highest quality automation solutions to the leading Pharmaceutical and Biotech companies.

We understand the regulatory requirements for aseptic product processing, our equipment is designed and comprehensively tested to ensure compliance with these high standards.

TYPICAL PROJECTS IN THIS AREA INCLUDE:

- Vial and Syringe Processing systems
- Vial and Syringe Filling
- Vial and Syringe Inspection
- Vial and Syringe Nest / Tub Handling and Palletising
- Lyo Load and Tray Handling
- Secondary Packaging Equipment

EQUIPMENT AND SOLUTIONS INCLUDES:

- RABS Passive and Active
- Isolators
- VHP/IHP compatible equipment
- 21 CFR part 11 compliance
- Robotics
- Customised Qualification Package



Liquid Filling Machines

Our extensive in-house expertise and manufacturing experience means we have the capability to produce bespoke liquid filling lines for diagnostics, nutrition, biologics and pharmaceutical solutions.

FILLING APPLICATIONS INCLUDE:

- IV/Infusion bags
- Nutrition bags
- Vial filling (glass and plastic)
- Bottle filling
- Syringe filling
- Cartridge filling

TECHNOLOGIES WE PROVIDE IN THIS AREA INCLUDE:

- Magnetic and mass flow meters
- Positive displacement piston pumps
- Precision peristaltic pumps
- Syringe pumps
- Piezoelectric valve dispensing
- Clean in place (CIP) systems
- In process check weighing



Robotics

Robots offer incredible flexibility and are an innovative and cost-effective way in which to future-proof a high-cost investment.

By working directly with all of the major international robot manufacturers, our team of highly-qualified Robotics engineers can integrate all types of robotic systems to meet the specific requirements of each individual client.

ROBOT APPLICATIONS INCLUDE:

- Multi-component assembly
- High-speed pick and place
- High-class pharmaceutical cleanrooms
- Tray handling
- Vision-guided robotics

ROBOT TECHNOLOGIES INCLUDE THE FOLLOWING:

- 6-axis
- SCARA
- Delta
- Collaborative
- AGVs



Vision Systems

We have an in-house team of skilled and highly qualified Vision Engineers who specialise in developing custom vision solutions for our clients.

Working with all the major vision systems manufacturers, our engineers have the capability of designing and developing state-of-the-art systems that are tested at every stage of the process.

VISION APPLICATIONS INCLUDE:

- Assembly verification and measurement
- Robot guidance and conveyor tracking
- GTIN code inspection for pharmaceutical and medical devices
- Code Reading and grading including OCR/OCV, 2D data matrix and barcodes

VISION TECHNOLOGIES INCLUDE:

- High-resolution cameras (monochrome/colour)
- 3D Vision
- Linescan
- UV, NIR, multispectral analysis



Minimally Invasive Catheters

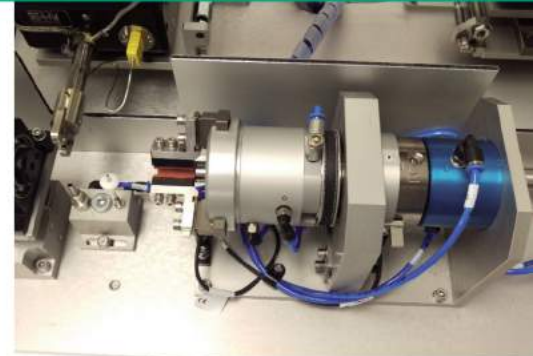
Ward Automation is experienced in development of R&D, manufacturing and test equipment for minimally invasive medical catheters.

PRODUCT APPLICATIONS INCLUDE:

- Balloon Angioplasty
- Coronary and Peripheral Catheters
- Stent Delivery Systems (balloon and self-expanding)
- Urinary Catheters
- Structural heart products

EQUIPMENT AND PROCESSES INCLUDE:

- Catheter Coating and UV cure
- Catheter UV bond
- Catheter thermal bond
- Catheter slotting
- Catheter lamination
- Catheter and tube cutting and coiling
- Marker Band Processing
- Flaring Equipment
- Necking Equipment
- Leak testing
- Tube Stretching
- Balloon forming
- Catheter Lamination
- Balloon wing forming



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Minimally Invasive Medical Implants

Ward Automation is experienced in development of R&D, manufacturing and test equipment for minimally invasive medical implants.

PRODUCT APPLICATIONS INCLUDE:

- Stents (coronary, peripheral and non-vascular)
- Drug/device combination products
- Neurovascular implants
- Structural heart products
- Coil-based products

EQUIPMENT AND PROCESSES INCLUDE:

- Stent deployment testing
- Drug Eluting Stent Processing
- Vacuum Systems
- Coil Winding
- Stent Crimping
- Stent Handling
- Annealing furnaces
- Product Functional Test
- Knotting and suture-based processes
- Stent Crimping and Loading

