



If it is going to be done by us ,it always possible...



# **ASSEMBLY SOLUTIONS**

















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**INNOTECH** has extensive experience in a range of assembly solutions, from stand-alone operatorassisted stations to larger, fully automated assembly lines..













#### WHAT IS ASSEMBLY AUTOMATION?

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Assembly automation is the strategic integration of advanced technology within assembly processes. Typically this advanced technology includes robotic arms, automated guided vehicles, and sensors to manipulate parts for assembly. Automated robots can be deployed and reconfigured quickly to meet high throughput goals, satisfying increased demand for high-speed and high-quality manufacturing.



For example, companies have integrated **robotics** into their assembly processes for **automotive**, **aerospace**, **medical**, **heavy equipment**, **and consumer products**. Further, industries such as consumer electronics, appliances, and medical devices require speed and precision. Automated equipment is ideal for completing the repetitive tasks of applying adhesives and sealants or accurately assembling small parts.

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#### **AUTOMOTIVE ASSEMBLY SOLUTIONS**

Companies use automated automotive assembly lines for manufacturing components such as fuel systems, motors, gearboxes, pumps, lighting products etc. Robotics and vision are ideal for creating ergonomic and efficient product lines that protect human workers from hazardous conditions while completing assembly quickly.



#### **AEROSPACE AUTOMATION ASSEMBLY SOLUTIONS**

Similar to the automotive industry, the aerospace and defense industries are adopting automation at growing rates. Companies have deployed robotics, vision, and artificial intelligence for welding, assembly, and material handling to increase cycle rates and improve worker safety. These integrations have improved the manufacturing and assembly of all parts of aircraft, ammunition, and weaponry.















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### **ASSEMBLY AUTOMATION IMPROVES YOUR BOTTOM LINE**

Assembly robotics boost capacity and quality and lower production costs.

Automation solutions can also be flexible, reconfigured, and deployed in other parts of the line. With vision and advanced software, our customers have been able to improve their traceability and quality inspections. Your company can get a return on investment through the following benefits:

Increased capacity
Increased quality
Improved worker safety and ergonomics
Improved precision and repeatability

One of the most considerable savings is in labor costs.

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Assembly line robots can take over repetitive and manual tasks, letting your employees focus on the more advanced tasks. Our assembly customers have integrated multiple 6-axis robots and kept areas clear of human workers, saving money by reducing accidents and injuries.













#### **INNOTECH HELPS ASSEMBLY PROCESSES**

If it is going to be done by us, it always possible...

INNOTECH has the size and experience to provide assembly automation turnkey solutions. Our large team of engineers across our global network can build proofs of concept and integrate third-party machines, so you have the automation in places you need.

We specialize in integrating assembly, welding, and material handling automation solutions into your production process. Our solutions include feeding systems, riveting and screwdriving, palletizing and depalletizing, pick-and-place solutions, and more.

















#### **TECHNICAL CAPABILITIES**

If it is going to be done by us, it always possible...

Whether your parts are manually loaded or fed into our system, we have the know-how to join, press, fasten, rivet, or weld your components together into their final form. Our expertise includes:

- Adhesive & sealant dispensing
- Adhesives
- Assembly
- Bowl feeding
- Case packing
- Clinch riveting
- Clip driving
- Continuous motion
- Fastening
- Flex feeding
- High-speed pick & place
- Impact riveting

- Induction heating
- Insert assembly
- Joining
- Leak testing
- Linear motion
- Linear servo gantry
- Lot traceability
- Medical packaging
- MIG welding
- Part feeding
- Pick & place
- Press tending
- Pressing
- Riveting
- Robotic assembly

- Robotic palletizing
- Screwdriving
- Silicon welding
- Snap
- Sonic welding
- System integration
- Vision-guided robotics
- Web handling & converting
- Force sensing
- Distance monitoring
- Vision inspection
- Verification systems















## **CERTIFICATES**

ninovation and rechnology...

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us, it always possible...

























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# Thank You...





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