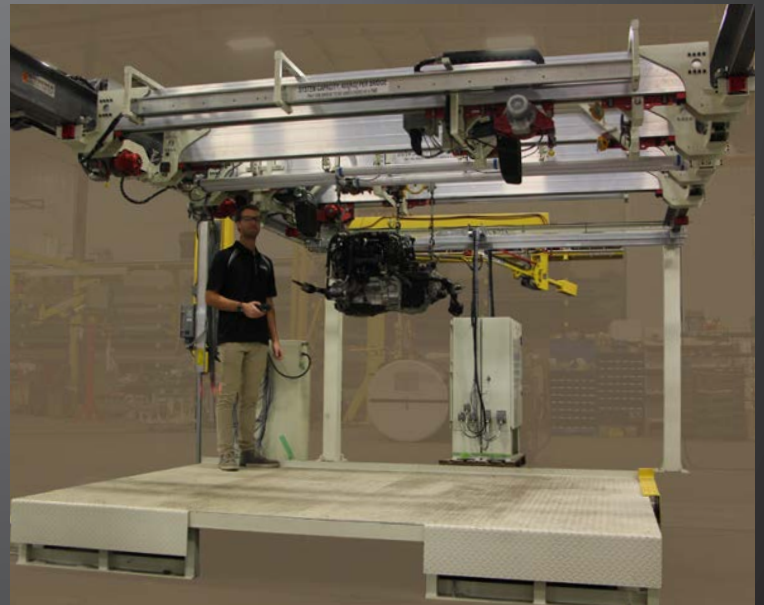




Machinery and Automation



GIVENS
MACHINE SYSTEMS INC

London, Ontario

Manufactured
in Canada and
United States

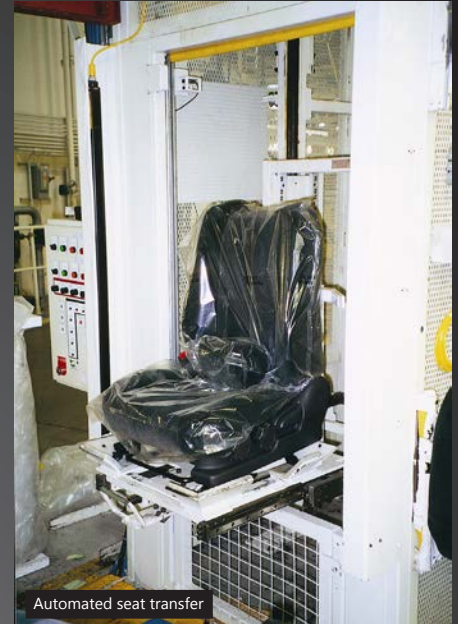
GIVENS
AUTOMATION & MACHINE

Perrysburg, Ohio

Automated Machinery

Givens Machine Systems provides integrated production systems and one-off automated machines. Control panel wiring, PLC programming, wiring, mechanical design, fabrication, painting and installation are all handled in-house. Ensuring top quality and consistent equipment performance is our main priority, from project conception to completion.

We provide custom solutions that rely on automation to either improve process functions or replace obsolete process functions.



Automated seat transfer



Automated seat transfer over automotive assembly line



Automated chassis transfer

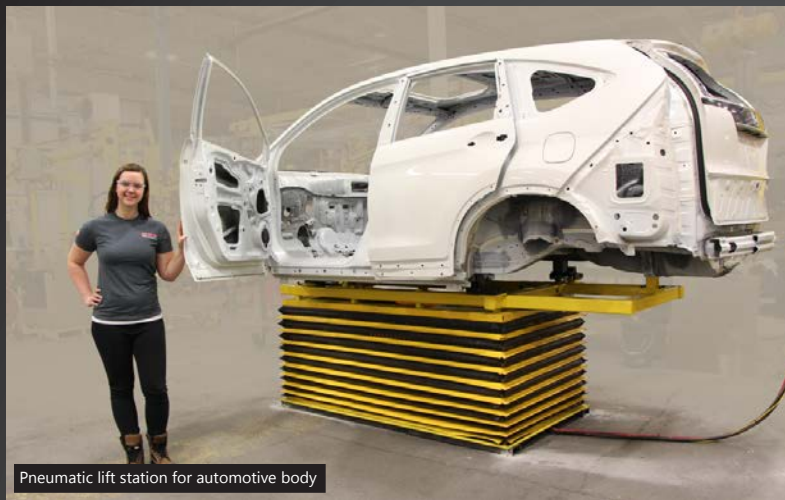


Automated G-Rail crane engine transfer

- Automated overhead cranes
- Material handling systems
- Dynamic racking
- Torque systems
- Lift platforms
- Inspection systems
- AGV dollies, carts & gates
- Fixtures
- Robot EOAT
- Panel building

419-724-9001
www.givensautomation.com

Carts & Lift Platforms



Pneumatic lift station for automotive body

We offer customized lift platforms that can be used for a variety of different applications including:

- Lifting platforms for people
- Mobile platforms
- Static platforms
- Material platforms

Platforms can be static or powered up & down via pneumatics, hydraulics, or electric motors.



Hydraulic lift platform for workers



Tugger cart for suspension assemblies



Conveyor cart

Givens Machine Systems designs and manufactures custom carts for a range of different applications as well, including:

- AGV's
- Push carts
- Tuggers
- Conveyor carts
- Table carts

Carts can be designed to suit your process and product needs, such as fixturing to perfectly nest complex shapes, or conveyor rollers to move boxes or pallets into and out of the cart.

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Conveyors

Conveyors help to move and sequence materials through a warehouse or production environment. In many cases, off the shelf conveyor systems are not strong or complex enough to handle unique products or demanding processes. We provide large, heavy-duty systems that can withstand busy production environments for a long-life cycle.



Part dispensing sequence conveyor



Assembly station transfer conveyor



Bin conveyor



Multi-bay over/under conveyor



Gravity conveyor with turn table

Over/Under Conveyors

Powered or gravity, make use of an overhead return lane for dunnage to conserve floor space. A large scissor lift moves the empty dunnage from the feed lane, up to the return lane.

Line Side Conveyors

Dispensing parts one at a time or presenting material to production line workers.

Gravity Conveyors

Sequencing material in a warehouse or production environment.

Custom Conveyors

Made to conform with unique product and process characteristics.

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Fastening Systems

Torque drivers are a necessary tool in every production environment to quickly tighten fasteners and ensure the correct torque spec is achieved. We offer self-positioning multi-driver tool systems to help improve your fastening operations.

We design custom systems that locate the tooling to your product, aligns multiple nut runners, and fastens multiple torque points simultaneously. These systems can be controlled via air logic or PLC controls. DC torque tools or pneumatic torque tools can be integrated into these systems.

Reduce Labor Costs

One operator running multiple tools.

Improve Ergonomics

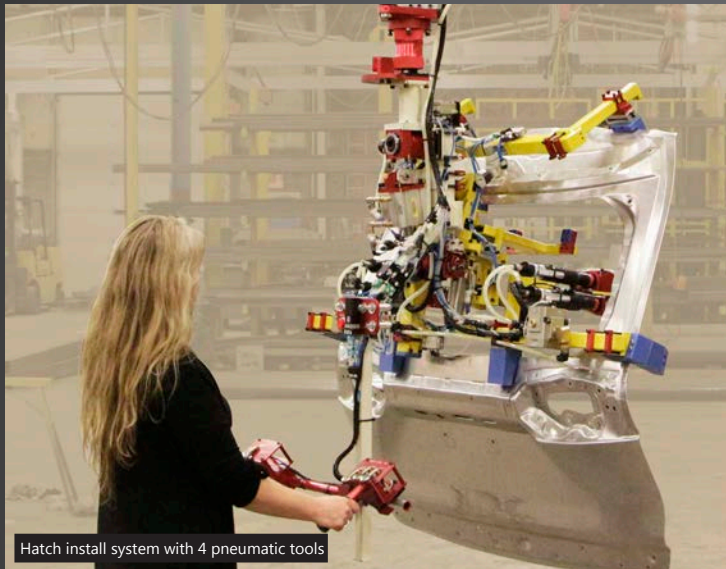
Operator controls can be kept at a desirable height while tools are above the shoulder or below the waist.

Improve Cycle time

Multiple fasteners installed simultaneously.

Improve Repeatability

Tooling aligns to the part or the fixture, increasing repeatability.



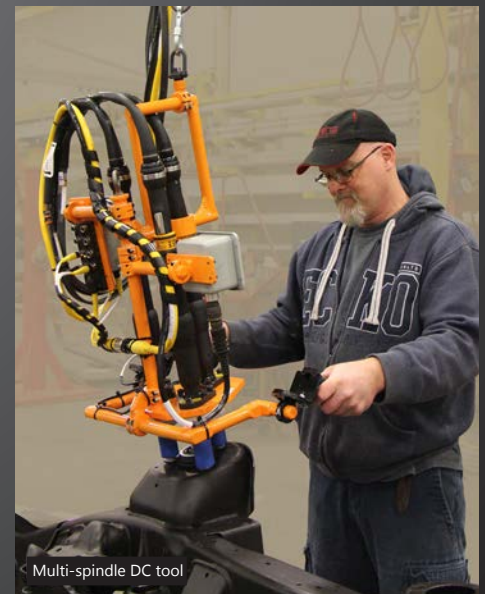
Hatch install system with 4 pneumatic tools



Hatch install system with 4 DC tools



Fender install system



Multi-spindle DC tool

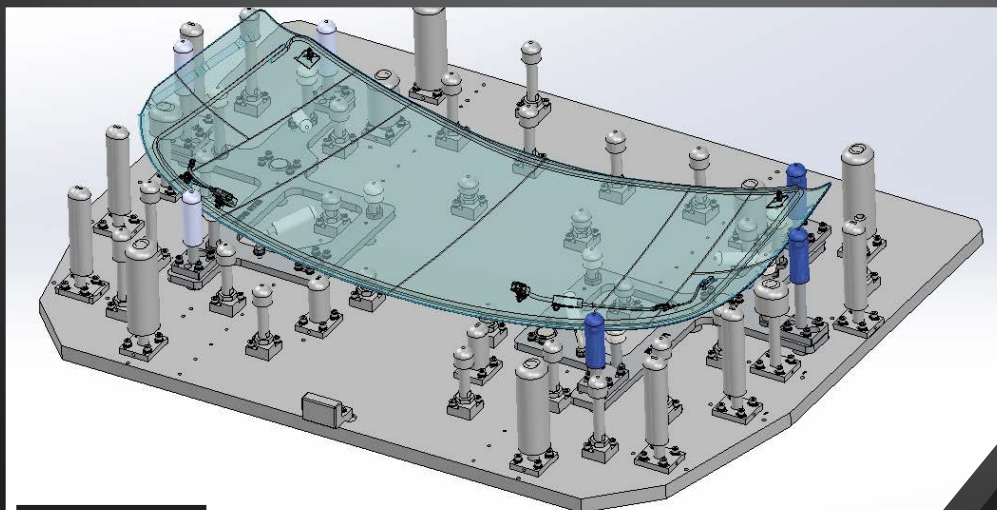
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Fixtures



Fixturing is an essential part of any repetitive production environment to improve both quality and repeatability, but often come with challenges. Challenges can include access to different part locations on a universal part fixture across multiple stations, or holding parts into a fixture until assembly steps are complete.

Regardless of the challenge, we can help you overcome it by offering a custom solution that can meet your production and quality requirements.



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Special Purpose Machinery



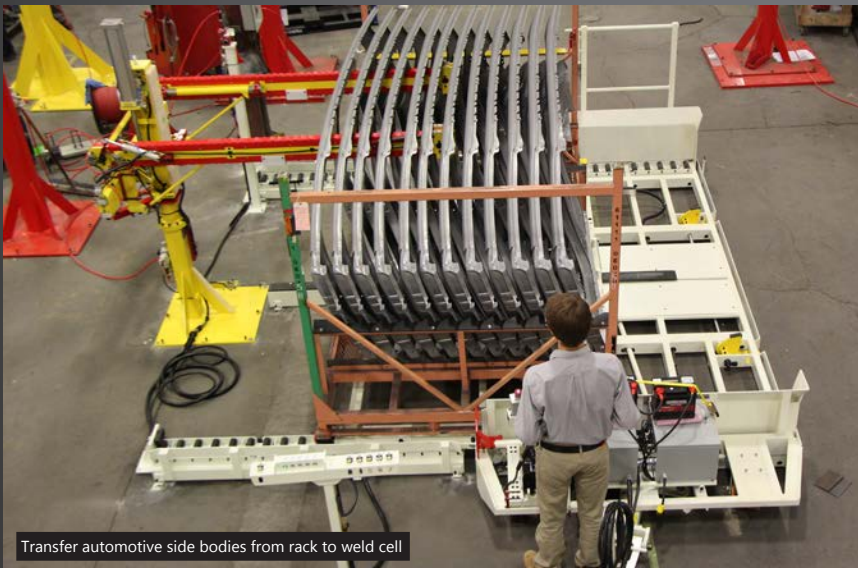
Applicator tool for automotive garnish



Lift cart with power rack

Custom machinery is a necessity for production processes that have very specific needs which cannot not be fulfilled with "off-the-shelf" equipment.

Our team works with you to design custom machines that can handle your production needs.



Transfer automotive side bodies from rack to weld cell



Rotating parts rack

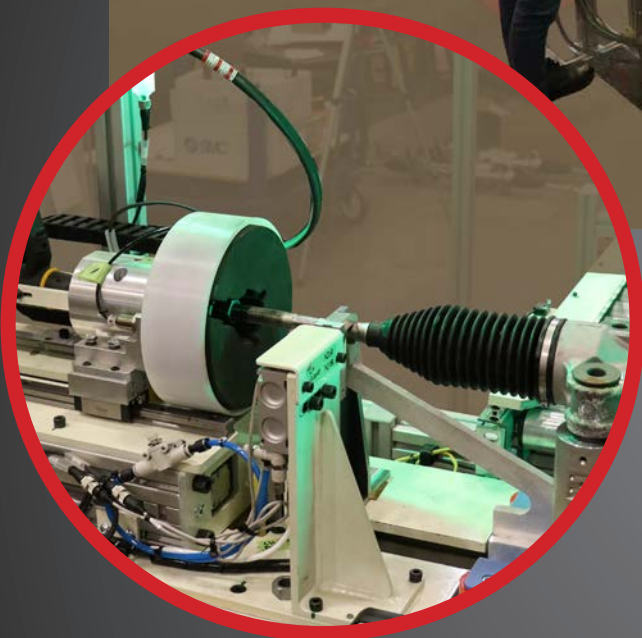


Turn table upgrade



Slide seat for assembly lines

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GIVENS

MACHINE SYSTEMS

POWERED BY

GIVENS
ENGINEERING INC



Proud suppliers of equipment and machinery to:

Toyota, Nissan, GM, FCA, Honda, Magna, Tesla,
International Truck, Hino Truck, GE, Volvo, NASA, ZF,
Dana, Siemens, Barry Callebaut, and many others.

Givens Machine Systems was established in 2021 as a sister company of Givens Engineering Inc to provide our customers a specialized focus in automated machinery, fixtures, carts, platforms and assembly systems.

Givens Engineering, established in 1993, provides manipulators, cranes, and custom machinery to a wide range of customers in the United States, Canada and beyond.

Almost everything we manufacture is customized and engineered to some degree.

We employ engineers (mechanical and electrical), designers, machinists, millwrights, welders, electricians and control specialists to manufacture cranes, manipulators, grippers, and end effectors, all done entirely in-house.

Installation, start-up support, maintenance, and annual inspections are services we routinely provide.

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www.givensautomation.com