

Industrial Group

FOCUSED RESOURCE FOR:

- Furniture
- Turf Care
- Exercise Equipment
- Sports Vehicles
- Enclosures
- Appliances
- HVAC
- RV/Vehicle Access



The Industrial Group is led by **Dan Schrock, Tracy Willis** and **Mike Jacobsen**. Together they have over 35 years of automation experience – innovative automation for companies that use primarily gage material thicknesses in their products. These engineers are highly experienced in these industries and their applications. This team knows your business, manufacturing processes and the challenges you face when you consider automation. Your automation requires specialized technology and know-how.

Your automation program stays in the Industrial Group – start to finish. No handoffs. They intend to earn your business and keep it with performance. The Industrial Group's focus on innovation provides you the decisive competitive edge you need – next generation part design, welding process, fixturing, welding systems and out of the box part flow and handling concepts.

INNOVATION AND EXPERIENCE FROM ONE SOURCE

WELDING INNOVATION

With 25 years experience welding gage material, our engineers give you the competitive edge using the latest welding technology. High speed welding, gap tolerance or high quality cosmetic appearance, we've done it all. Technologies include:

- Cold Metal Transfer
- ZERO Spatter GMAW
- Plasma, GTAW
- Laser Welding and Cutting
- MetLab – analytical test and reporting
- Offline Programming and Simulation
- Resistance Welding



Outside corner weld (.063) on aluminum diamond deck tool box.



TOOLING INNOVATION

Don't just think of weld fixtures as clamps holding parts together. This is a great place to innovate and gain a decisive competitive edge. We design and build our own fixtures to ensure seamless performance with no room for finger pointing.

- Assembly Fixtures – dimensionally critical parts
- Craftsman-in-Charge Fixtures – low cost
- RoboFixture – Let a robot handle your part – combining material handling and welding
- Flexible Fixturing – adjustable fixtures for part families



INNOVATION
from One Source
and Experience

Industrial Group

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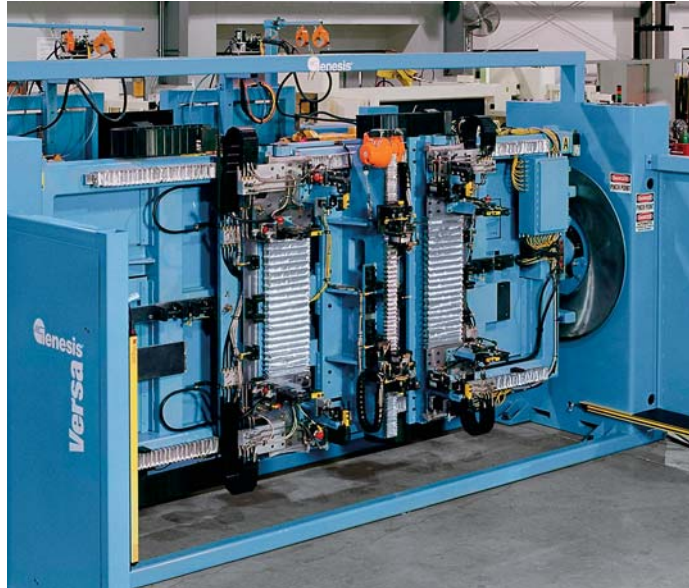
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(image to right)

This dual robot Versa 4M platform was customized by replacing the headstock and tailstock positioners with servo tooling. Duplicate tooling was installed on each of the two stations to weld office partitions. Each tool will automatically adjust in X and Y plus adjust to the right amount of prebowl.

(image to far right)

A dual station custom cell was designed to weld flues into both ends of the water heater tanks leak face. Touch sensing routines were used to find the flue weld joint.



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This custom cell has two stations with 4 arc welding robots at each station. The system automatically welds dock levelers after they are pretacked. Once the part is placed on the conveyor everything else is automatic. The cell control moves the part to the available weld station and automatically clamps the part and applies the correct amount of prebowl for the given part number.



Custom bending system designed for snow blower assemblies.

 **Genesis Systems Group, LLC**

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