

Integrated Systems, Inc.

Main Applications:

- Laser Processing
- Machine Tending
- Material Handling
- Palletizing



www.isirobots.com

Integrated Systems, Inc offers a wide range of industrial services. Our main business is the design and fabrication of robotic systems for welding applications, as well as material handling, palletizing, laser processing and machine tending. We have an extensive background in custom machine and tooling design and manufacturing. We offer a complete industrial and mechanical consulting service, as well as a CAD/Solid Modeling service, PLC programming, and a CNC machine shop with solid surfacing CAD-CAM capabilities.

History

In 2000, after six years experience as a partner in a custom machine manufacturing company, Bob Brown formed Integrated Systems, Inc (ISI). ISI is primarily a robotics systems integrator with locations in Darlington, SC, Cottonwood, AZ and our new location in San Luis Potosí, Mexico. ISI joined ABB as a Channel Partner in 1999, earning Platinum Sales Status in 2002 and currently enjoys Preferred Partner status. ISI has cooperative relationships with many industry partners such as Genesis, ESAB, Jetline, Miller and Pandjiris and has recently signed a national agreement with Airgas. With these relationships, Integrated Systems is poised to tackle any size project.

Offering

What makes Integrated Systems unique is the breadth of our offering. We started life as a custom machine builder and have designed and built machines ranging from the automated welding of MRI magnets and barges to the building of assembly machines for screwdrivers and outboard

motors. We continue that diversity today using robotics for welding, cutting, palletizing, machine tending and high-speed picking. One would have to look hard to find an integrator with a more diverse offering and experience level. This breadth of experience has honed our skills in tooling manufacturing, programming, integration and controls. This experience, coupled with our in-house flight department, uniquely positions ISI in the marketplace.

“Partnering with ABB has allowed us to confidently accept complex projects because of our faith in the robotic product. The ABB robot just has more “tools” in the toolbox than the others and we find the motion and accuracy of the robot to be far superior to its competitors. The ABB sales and service teams provide excellent support to both us and our customers.”

Bob Brown, CEO
Integrated Systems, Inc.



References

Heavy Welding

Deere-Hitachi

Kernersville, NC. 27284

We have been Deere-Hitachi's integrator of choice for 4 years, supplying complex heavy welding systems. We have provided several systems with 10 axes of coordinated motion coupled with extensive touch-sensing and calculated adaptive fill, welding large multi-pass Trackhoe weldments.



Machine Tending

Ingersoll-Rand

Air Solutions Group

Mocksville, NC 27028

We have worked with Ingersoll-Rand since 2003, providing machine tending solutions for their compressor rotor processing. One system consists of two six-axis robots on a track tending seven different milling and grinding machine tools. The part starts as a raw bar weighing 400# and ends as a finished rotor.



Palletizing

Georgia-Pacific

Fort Smith, AR 72904

We have been Georgia-Pacific's integrator of choice for 5 years, providing palletizing solutions for plants in AR and SC. Our projects for GP have ranged from a six in, seven out system performing palletizing, depalletizing and mixed load cases for 62 unique SKU's without a tooling changeover to a 6-axis robot system palletizing bags of paper plates into cardboard trays. The paper plate project required the design of several unique components including a "plate compressor" to compress the stacks of plates to a defined height compensating for the size difference caused by changes in temperature and humidity and a hinged, dual-jawed EOAT to pick two bags at a time to meet rate requirements. The hinge action allowed the placement of one bag at a time meeting the need to turn plates face-out on the pallet. The robot also picked trays from tray formers without EOAT change.

