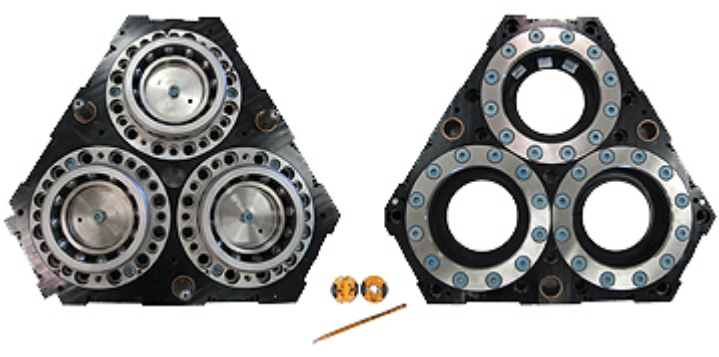
End-Effector eNews

From ATI Industrial Automation

SUMMER/FALL 2013

THE STRONGEST COMMERCIALLY AVAILABLE TOOL CHANGER

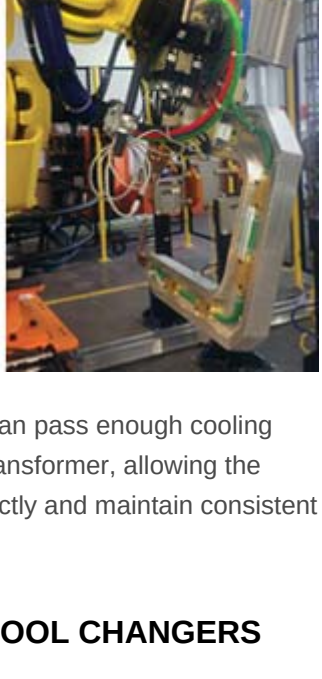


ATI Industrial Automation has developed a Heavy Duty Tool Changer that can handle extremely large payloads up to 4080 kg (9000 lbs). Compatible with existing Heavy Automation Tool Changer utility modules, the modular construction of the QC-1510 Tool Changer allows integration into applications requiring high-power, coolant, servo, DeviceNet™, Ethernet, PROFINET, and discrete signal capabilities by incorporating separate modules that can be mounted on any of the nine available flats. Along with developing the largest Tool Changer, ATI has recently developed their smallest Tool Changer yet. The QC-001 Micro Tool Changer features an extremely compact and lightweight design for high-speed "spider" or delta robots. Read More >

ATI'S 7th ANNUAL MICHIGAN TECHNOLOGY TRAINING FAIR, THURSDAY, AUGUST 22nd

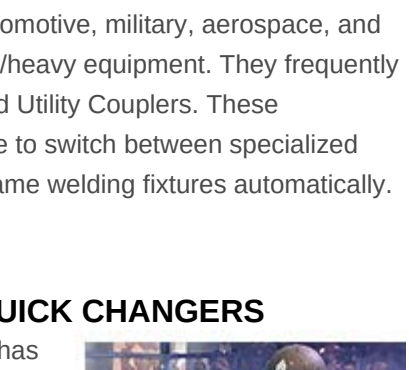
ATI Industrial Automation has announced that it will hold its 7th Annual Technology Training Fair at its Michigan office on Thursday, August 22nd. Learn about all of the latest robotic end-effector products that have been developed by ATI over the last year. A variety of topics will be covered, including guest presentations by: Advenovation, Fronius, Recognition Robotics, RIA, and Weber. Read More >

NEW TOOL CHANGER MODULES FOR ALUMINUM WELDING



ATI Industrial Automation has developed a new Tool Changer Module for passing high current from a power supply to the tooling (such as a weld gun). Typically used in aluminum spot welding applications, the PH3 Module has three silver-plated copper contacts, each capable of carrying 600 Amps when coupled. Also developed for aluminum spot welding applications, the FF4 Fluid/Air Tool Changer Module supports five 1/2 inch hoses. With two feed lines and three return lines, the FF4 module can pass enough cooling water for nearly any robot-carried transformer, allowing the weld gun to cool the electrode correctly and maintain consistent weld quality. Read More >

UTILITY COUPLERS AND TOOL CHANGERS SAFELY SAVE TIME



The right equipment for the right job allows Tennessee Rand Inc. out of Chattanooga, TN to manufacture Harley Davidson motorcycle parts with expert precision; safely and efficiently. Tennessee Rand offers solutions to a variety of industries from automotive, military, aerospace, and power generation to off-road/heavy equipment. They frequently use ATI's Tool Changers and Utility Couplers. These components make it possible to switch between specialized tank, sub-frame, and final frame welding fixtures automatically. Read More >

QUICK JABS WITH QUICK CHANGERS

The Syfy television channel has premiered a new robot fight show called Robot Combat League, starring eight-foot-tall, thousand-pound humanoid robots. The new show demonstrates technology that can mimic human fighting motions while utilizing specifically-customized weapons. ATI Industrial Automation's Robotic Tool Changers, manufactured at their state-of-the-art manufacturing facility located in Apex, NC, are one of the visible components being used in the arms of the robot fighters on Robot Combat League. Read More >

ATI LAUNCHES NEW WEBSITE

ATI Industrial Automation has launched their new website that provides streamlined navigation and an updated look. The website is user-friendly and provides a fresh way to navigate and access a wealth of company and product information. Website features include: Links to product specifications, 2D and 3D images, application and product videos, along with ATI news articles and stories that affect the robotics industry. Viewers will be able to quickly and efficiently access information regarding their robotic end-effector needs. Visit the new website now at www.ati-ia.com.

Featured Products

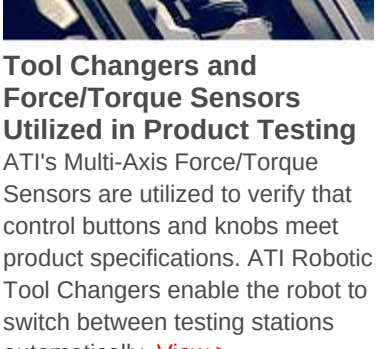
Wireless F/T

ATI Industrial Automation has just released the Wireless F/T, a small wireless transmitter for up to six ATI Multi-Axis Force/Torque transducers. It can be powered by its internal battery or an external power source, and it uses the 802.11a/b/g/n wireless standard at 2.4 GHz or 5.0 GHz. The Wireless F/T can stream up to 1200 six-axis measurements per second to the user's host device for data collection, real-time motion control, or user-defined signal processing. Read More >

SR-48 Robotic Collision Sensor

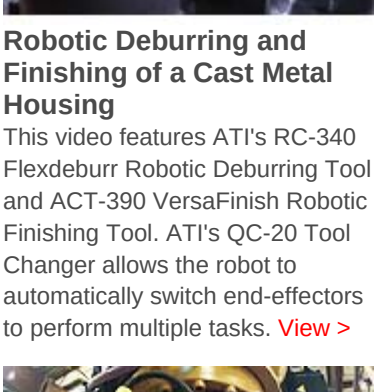
The newest addition to ATI's line of Robotic Collision Sensors, the SR-48 was developed to provide a lower range Collision Sensor than the SR-61 model, but with a similar robust design. ATI's patented design includes an automatic reset feature that benefits workplace safety. After the robot crashes, the Collision Sensor will automatically reset when the robot removes the tooling from the crash-causing object. Compliant in the X, Y, and Z axes, this capability provides a safer method for resetting by making it unnecessary for personnel to enter the robotic work cell. Read More >

Featured Videos



Tool Changers and Force/Torque Sensors Utilized in Product Testing

ATI's Multi-Axis Force/Torque Sensors are utilized to verify that control buttons and knobs meet product specifications. ATI Robotic Tool Changers enable the robot to switch between testing stations automatically. View >



Robotic Deburring and Finishing of a Cast Metal Housing

This video features ATI's RC-340 Flexdeburr Robotic Deburring Tool and ACT-390 VersaFinish Robotic Finishing Tool. ATI's QC-20 Tool Changer allows the robot to automatically switch end-effectors to perform multiple tasks. View >

Robotic Tool Changers Enable Quick and Automatic Exchange of Packaging End-Effectors

Mounted on the wrist of the robot, ATI QC-150 Tool Changers enable the robot to quickly exchange packaging end-effectors to perform multiple operations. View >

Manual Tool Changers

ATI's Manual Tool Changers provide a cost-effective solution for quickly changing tools by hand. They feature a unique design that combines high strength, excellent repeatability, and a patent-pending screw-cam locking mechanism with multiple fail-safe features, which resists vibration and prevents loosening. This video demonstrates how they operate. View >

UPCOMING EVENTS

ATI exhibits at a variety of industry shows and conferences. Our schedule is listed below. Contact Valerie Van Deusen at Valerie.VanDeusen@ati-ia.com if you would like a FREE ticket (subject to availability) to any upcoming shows.

ATI's 7th Annual Technology Training Fair	August 22, 2013	ATI Michigan Office, Orion Township, MI
37th Annual Meeting of the American Society of Biomechanics	September 4-7, 2013	CenturyLink Center, Omaha, NE
Pack Expo 2013	September 23-25, 2013	Las Vegas Convention Center, Las Vegas, NV **(Booth #5340)**
25th National Robotic Safety Conference	October 14-16, 2013	Indianapolis Marriott East, Indianapolis, IN
The Assembly Show	October 28-30, 2013	Donald E. Stephens Convention Center, Rosemont, IL **(Booth #233)**
International Conference for Vision Guided Robotics	November 12-14, 2013	Georgia Institute of Technology, Atlanta, GA
FABTECH Welding Show	November 18-21, 2013	McCormick Place, Chicago, IL **(Booth #N623)**
21st Annual Robotics Industry Forum	January 22-24, 2014	Hilton Orlando Bonnet Creek, Orlando, FL
ATX West	February 11-13, 2014	Anaheim Convention Center, Anaheim, CA **(Booth #4215)**

ATI INDUSTRIAL AUTOMATION
www.ati-ia.com
Engineered Products for Robotic Productivity

ROBOTIC INDUSTRIES ASSOCIATION MEMBER

Visit www.ati-ia.com for the most current product specifications, 2-D drawings, and 3-D CAD models.