



Robotic Innovations

INNOVATIVE ROBOTIC TECHNOLOGIES

Automation solutions for your industry

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About Robotic Innovations

Robotic Innovations, a South African based company founded in 2004, specialises in robotic system integration and design turnkey automation systems for a number of manufacturing applications.

We provide innovative solutions, using the right equipment and completing the project in the right time and at an affordable price. Our commitment to service, quality and reliability is what keeps us at the top of our game within industry.

Staff compliment: 21 Full time employees

Robotic Innovations has successfully installed and commissioned in excess of 300 Fanuc robotic systems.



Why should you consider automation?

Robots are capable of performing a variety of tasks and applications with precision and consistency. These tasks are not limited, can be performed in dangerous and hazardous environments, including heavy loads and handling of toxic substances. Automation increases production and profit margins.

Robotic & Automation Solutions

Being specialists in *Robotics and Automation* we provide the following services:

- System Concepts
- Hardware Planning in EPLAN
- Software Development
- PLC and SCADA Programming
- Electrical Hardware Design
- Project Planning
- Planning and Production of Control and MCC Cabinets
- Electro-mechanical Assembly
- Tooling Designs and Manufacturing
- Maintenance / Services
- Research and Development
- Mechanical Design and Fabrication
- Project Consultation and Management

Industries:



MANUFACTURING



MINING



METALS



AUTOMOTIVE



CHEMICALS



AEROSPACE



AGRICULTURE



CONSTRUCTION



ENGINEERING



FILM & MEDIA

Accreditations:

- Internationally Approved Systems Integrator for *Fanuc Robotics*
- Approved Systems Integrator for *Siemens*
- Automation Partner for *Lincoln Electric*

Control systems used:

PLC Systems - Siemens S7 & Allen Bradley
SCADA Systems - Adroit, WINCC & Intouch

Client Base

Robotic Innovations is proud to have supplied solutions to the following clients:



Robotic Applications

We offer the following robotic applications:

Conveyor Solutions

The transfer of products from one part of a factory to another can be done in many ways. More often the best way is with the use of conveyors. We have a wide range including roller type systems for boxes or belt type systems for bags. Whether you require a motorized-, gravity fed-, bends-, lifts-, incline-, decline-, telescopic- or a spiral system we have the solution. We can transfer, handle and sort almost anything.

Cutting and Trimming

It could be the use of an air grinder with a cutting bit, or a servo motor with a cutting blade. Water-jet cutting, laser cutting, plasma cutting, grinding or polishing with a robot, one can automate these very labour intensive and dangerous tasks with precision and reliability.

Handling

These robots are programmed to automate the movement of parts, goods or tools from one location to another, or even between machinery. Some handling examples are assembly, packing, loading, unloading, etc.

Painting

Having a smooth coat of paint on any surface is important for both appearance and quality. The fine detail of a perfect coat can be achieved by our robotic systems. Many products are being glued together which could be costly and messy until performed by a robot. We can give you that perfect finish!

Palletising

Whether the requirement is for high production volumes or multiple lower production volumes, robotic palletising is the automation of loading and unloading of goods such as bags and boxes, from or onto Pallets.

Spot Welding

The spot welding process is by far the largest user of robotics worldwide. By handling either pneumatic or servo driven spot welding guns, robots have been assembling motor vehicle body parts, shop fittings, cabinets, doors and many other products for decades.

Sheet Metal Bending Solutions

Integrated with a CNC or hydraulic bending press, a robot can be used to collect the parts, run through a fully automated bending sequence and then deposit the completed part into a bin or rack. Fast, precise and reliable every time!

Simulations

The simulation process is not only the best way to ensure that a design is perfect before manufacturing starts, it is also the best way to check cycle times and write actual programs. Using our ROBOGUIDE software, a programmer can write programs for the robot, whilst the robot is in production. Having full networking capabilities, new programs can be downloaded to the robot remotely.

Vision Systems

Literally giving robotic systems "eyes", 2D and 3D camera systems are fully integrated in the CPU of the robot controller. Camera systems are used for detecting and locating parts to be handled by robots. New quality control software allows robots to use camera systems to quality control products automatically.

Welding

Welding processes such as MIG-, TIG-, plasma-, plasma powder-, laser- and sub-arc welding are all processes that can be automated by using robotics. With monitoring software, one can be sure of the quality of each and every weld completed. Intricate parts are easily welded by adding manipulators to the system to ensure accessibility to weld joints.



Our preferred partner for welding consumables.



Training

In an effort to improve our level of service, Robotic Innovations now offers life-long free training to its customers who procure new robotic systems from the company.

Training is conducted at our training facility and is given to 2 delegates at a time. The training takes place over 2 days. Additional training can also be booked at a competitive rate.

We offer:

- Introduction to Fanuc Robot Programming
- Basic Fanuc Robot Programming
- Fanuc Robot Programming Level 2
- Advanced Fanuc Robot Programming Training

* Terms and Conditions apply.



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