

# ROBOTIC AUTOMATION

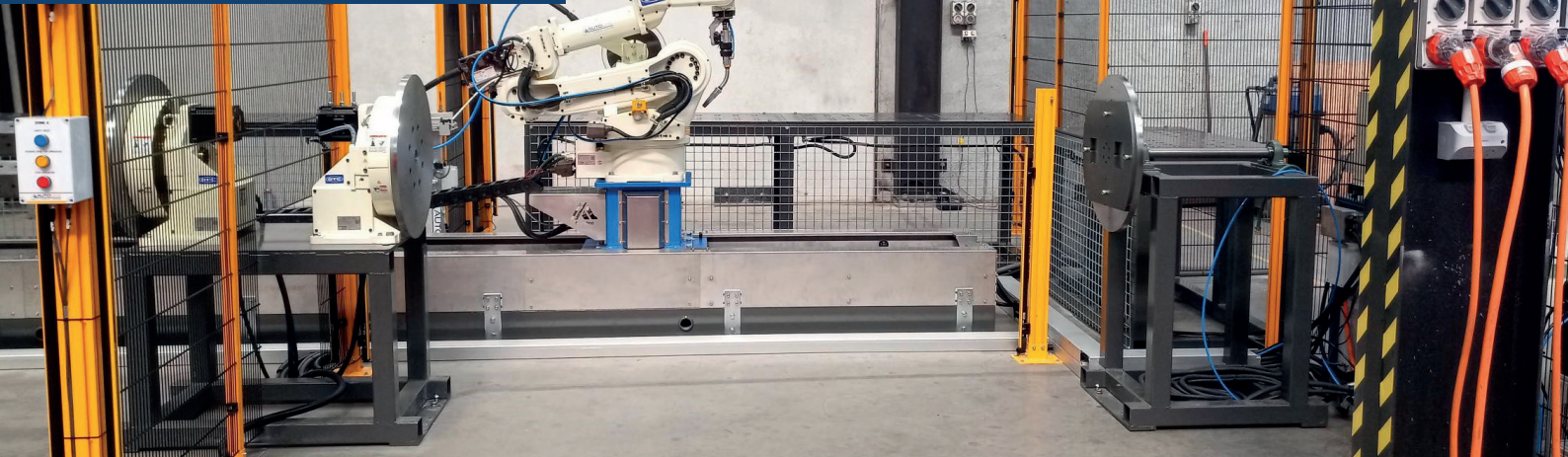


 **AUTOLINE**

ROBOTICS • AUTOMATION • CONVEYORS



# About Us



## We Are The Robotic, Automation and Conveyor Experts

Autoline began over 30 years ago selling press feeder and bowl feeding solutions to the manufacturing industry. As we grew, we introduced New Zealand to aluminium T-slot extrusion and used the aluminium profile to build conveyors and automation systems.

We continued to expand and established ourselves as New Zealand's leading automation company 'Conveying Excellence' in what we designed and manufactured and our customer experience.

With progressive development approach to bringing the very best of automation to New Zealand industries, we branched out into robotics with the acquisition of Carbines engineering, New Zealand's leading robotics integrator with over 35 years of experience in the industry.

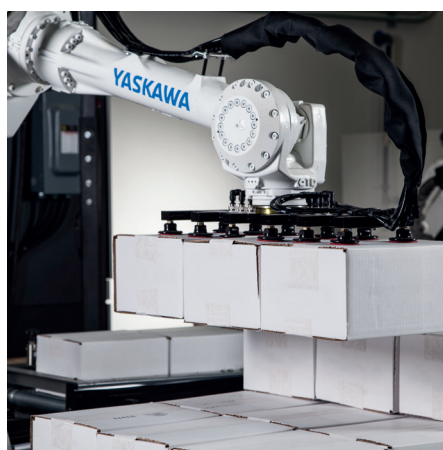
Today we continue to lead as the Robotic, Automation and Conveyor Experts, bringing the latest technology and innovations in New Zealand.

### Advantages of Robotics

When jobs are dangerous, dull, dirty and repetitive robotic automation provides great advantages. Typical results from robotic automation are; increased productivity from your labour force, increased workplace safety due to manual handling processes being carried out automatically. Plus, reduction in waste, consumables and rework through consistency and increased profitability giving you a competitive edge in your industry.

## Industries We Serve

Engineering • Forestry • Paper • Food • Manufacturing • Machinery • Warehousing  
• Logistics • Metal Products • Pharmaceutical • Plastic



# Yaskawa Motoman Robotic Solutions

# YASKAWA

Highest quality coupled with outstanding performance has a name: MOTOMAN robots.

With a full range of robots from 2kg to 800kg payloads, Yaskawa make the applications for robotics endless. Yaskawa Motoman offers exceptional products and components – including turnkey integrated work cells and completely customised automation solutions delivering unparalleled efficiency, quality, consistency and productivity.



Motoman Smart Series Line-Up

## Yaskawa Robot Overview

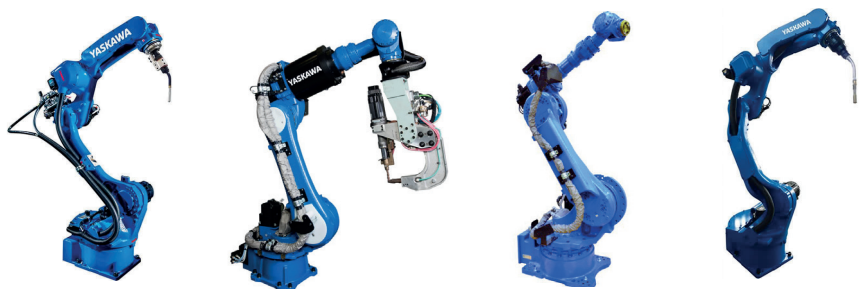
### Handling / Mounting / Painting / Collaborative Robots



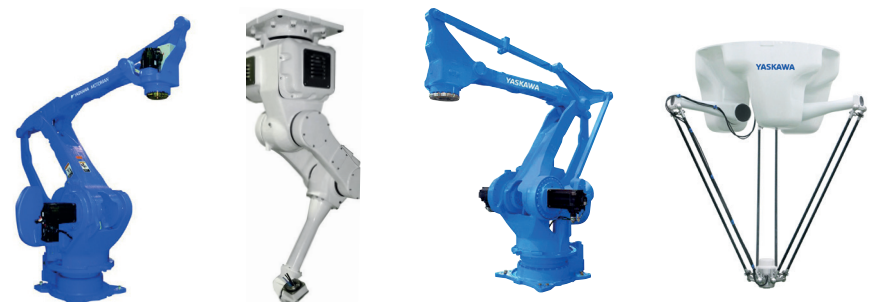
### Key Features:

- Full line of robot models, including 4-,5-,6-,7- and 15- axis; payload capacities up to 1000kg.
- Diverse, highly precise positioners including rotary and H-frame turntables, ferris wheels, headstocks/tailstocks, multi axis, rails, tracks and more.
- Specialised industrial drives and a wide range of powerful controllers
- Each model is compatible with one or more controller models, enabling you to program and control tasks of a single robot or coordinate multiple robots
- Supporting software's to plan, program and optimise and maintain your solution.

### Welding / Cutting Robots



### Pakaging / Palletising Robots





# OTC Daihen Robotic Solutions



Reliable. Repeatable. Clean.  
That's the OTC DAIHEN single  
source solutions.

With a wide range of high-performance robots and products, OTC Daihen is a global leader in innovative welding and robotic solutions. Keeping it all together with one seamless system OTC are the world leading innovators for Synchro-pulse, wave-pulse and digital power-source technologies.

OTC Daihen features the most advanced welding products in the world, while user-friendly features and interfaces enable both experienced and novice welders to achieve outstanding quality, consistency, and efficiency.



**Complete Welding Solutions • Industry-Leading Technology  
• Cutting Edge Robotics.**



## Key Features:

- Synchromotion – Multiple units (robots and positioners) moving together in coordination
- Synchro Short Pulse Control – Waveform control enabling rapid welding with no spatter
- One Knob Control – Adjusting welding voltage and current at the same time
- Constant Arc On – Revolutionary design to maintain a solid arc for AC MIG welding
- Retract Start Control – Enabling instant arc starts for robotic aluminium MIG welding
- Wave Pulse – Creating high speed TIG-like weld beads with pulse MIG welding equipment

## OTC DAIHEN 6-Axis Series Arc Welding Robot Line-Up



**FD-B6**  
6kg payload, 1.4m reach



**FD-V8**  
8kg payload, 1.4m reach



**FD-B6L**  
6kg payload, 2m reach



**FD-V8L**  
8kg payload, 2m reach



# Yaskawa Robot Controller

# YASKAWA

## High Performance Controller YRC1000 for MOTOMAN Robots

The MOTOMAN YRC1000 is a compact, fast and flexible controller for MOTOMAN robots that combines high performance robot control in a small footprint cabinet with volume of 125 litres and a maximum weight of 70 kg.

Besides the typical YASKAWA controller functionality, the YRC1000 includes additional functional improvements. Speed of the controller has been increased by lowering a ladder scanning time. Path accuracy improvement assures increased precision in trajectory performance independently on the motion speed. User interface supports smartphone like touch operations and allows the user to 3D simulate robots motion on PP screen before and during execution of the real robot arm.



### Key Benefits

- Compact, fast and flexible
- Global standardization (no transformer required)
- High path accuracy

# OTC Daihen Controller



The FD19 Robot Controller has the limitless potential of extensive “connectivity”.



### Key Benefits

- Easily “connects” with peripheral equipment through simplified system configuration with high-performance built-in software PLC.
- “Connects” from anywhere in the world for remote maintenance and support.
- Expanded motion control via “connectable” external axis unit with built-in amplifier and external 2-axis unit.
- Improved “connectivity” with welders, greatly improved synchronization with welders, simultaneous welding with multiple robots yields great improved quality.

# Doosan Collaborative Robots



## The ideal automation partner for human-robot collaboration

Doosan Robotics is a leading manufacturer of collaborative robots (cobots), which are robots designed to work side by side with humans without fences. This allows human workers and robots to perform their task in the most efficient way and thus increasing productivity. Doosan's collaborative robots have unique features not found in any other cobot brands!



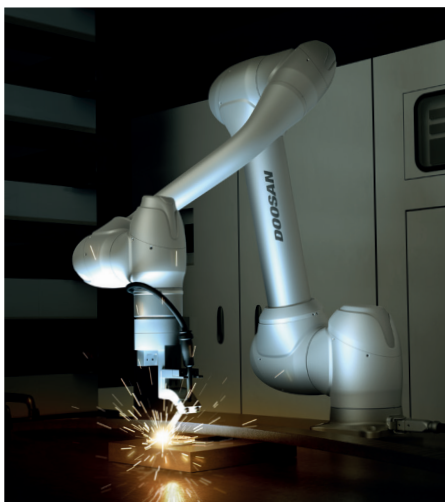
Doosan's collaborative robots, delicate and exquisite performance just one touch away

### Key Features:

- 6-axis articulated robot with top class force sensitivity and collision detection.
- Outstanding safety and precise operation by 6 joint torque sensors.
- Most optimal solution of collaborative robots with diversified work payload capacity and reach of product lineup.

## M Series

M Series is the highest quality premium cobot! 6 high-tech torque sensors provide the highest dexterity for highly sophisticated tasks and ensure the upmost safety with the highest collision sensitivity. A world-class cobot.



**M0609**  
6kg payload, 0.9m reach



**M1509**  
15kg payload, 0.9m reach



**M1013**  
10kg payload, 1.3m reach



**M0617**  
6kg payload, 1.7m reach



## Almighty A Series

You can get started with the A-Series. With its superior speed, safety, reliability and flexibility in model choice, it is the ideal solution to start automating. The A-Series promises a simple compact yet powerful solution and is very suitable for getting to know a cobot system with a relatively low investment.'



**A0509**  
5kg payload, 900mm reach



**A0509S**  
5kg payload, 900mm reach

Model  
with Force  
Sensor



**A0912**  
9kg payload, 1200mm reach



**A0912S**  
9kg payload, 1200mm reach

Model  
with Force  
Sensor

## High Power H Series

The H-Series is the most powerful cobot in the industry. With an excellent payload of up to 25kg and the 6 powerful Force Torque Sensors ensure a safe working environment for every application.



**H2017**  
20kg payload, 1700mm reach



**H2515**  
25kg payload, 1500mm reach

## Controllers

Smart  
Pendant



Teach Pendant



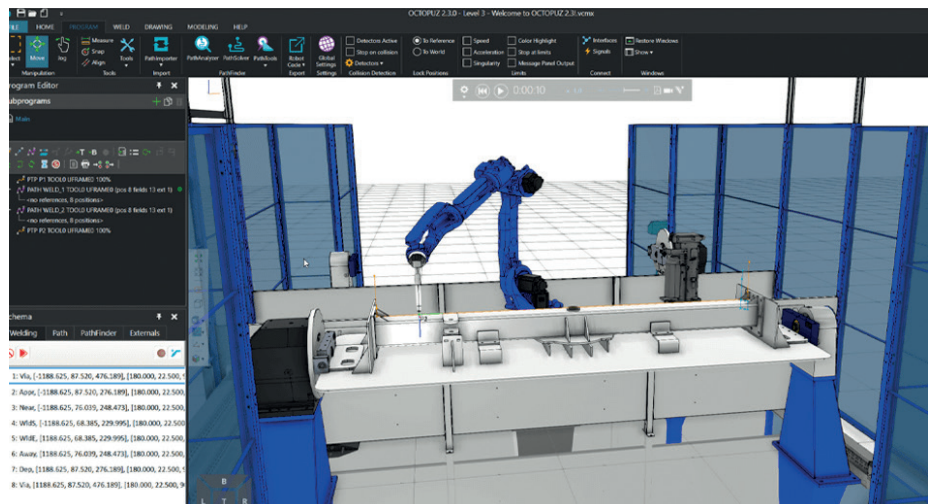
Doosan Controller

# Octopuz Offline Robot Programming Software



## Industry-defining offline programming software

Octopuz takes a revolutionary approach to robotic programming by combining the offline programming of robotics with a manufacturing process simulation, making it ideal simulation software for any application. Features of Octopuz give you all the tools needed for path-sensitive robotic applications, providing optimized external axis management and indicating the reach limitations while avoiding singularity.



## Complex Programming Made Simple

### Key Features:

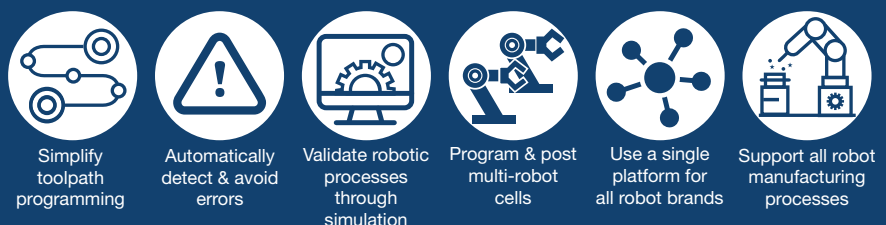
- Multiple robots? No problem! Program, simulate and generate code for multiple robots, simultaneously, with support for many robot brands in any configuration.
- Software to Robot Integration. Program code generated from Octopuz can be input directly into the robotic controls.
- Complex kinematics systems. Not limited to 6-axis manipulators, Octopuz can support 3-axis scara robots up to 7-axis manipulators, external axes (linear rails, rotaries), conveyors, feeders and more!
- Our Customers. Octopuz is used and trusted around the world. Octopuz provides value each and every day to both Small and Medium Size Businesses and Fortune 500 companies!
- Application Versatility. Full software versatility allows for unlimited uses.
- Most robot brands supported. 15+ brands supported with a regularly updated library.
- Simple simulation building. Drag, drop and snap components together from the library to make complex systems with pre-made logic.

## Autoline and Octopuz:

Octopuz delivers what its name promises: maximum flexibility and versatility or optimum simplicity and efficiency. The team at Autoline can design and simulate your manufacturing processes and plant layouts prior to any purchase of capital equipment. See your own products in real motion and in 3D!



## With Octopuz Offline Robot Programming Software, You Can:



Simplify  
toolpath  
programming

Automatically  
detect & avoid  
errors

Validate robotic  
processes  
through  
simulation

Program & post  
multi-robot  
cells

Use a single  
platform for  
all robot brands

Support all robot  
manufacturing  
processes

## Octopuz and Industrial Robot Brands: :





# OnRobot – End Of Arm Tooling



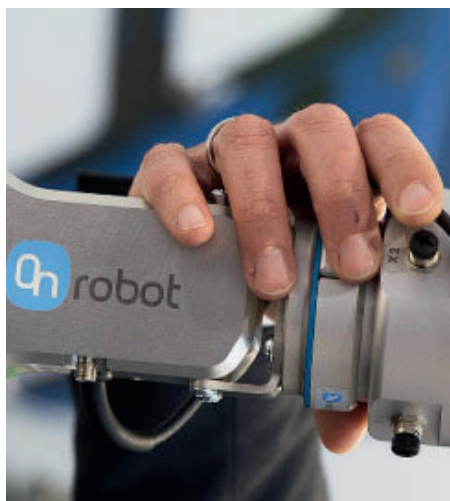
## One Stop Shop for Collaborative Applications

OnRobot delivers a full line of plug-and-produce end-of-arm tooling (EoAT) for collaborative applications. Our innovative grippers, sensors, and tool changers help manufacturers gain the full advantages of collaborative and lightweight industrial robots, including ease of use, cost-effectiveness, and safety alongside human workers.

OnRobot products open new possibilities for automating tasks that you never thought possible. Our cutting-edge gripping and sensing systems for industrial automation let you easily design truly collaborative applications that enable your workforce to work side-by-side with collaborative robots on assembly, surface finishing, pick and place, machine tending or testing.



OnRobot provide all the tools you need at one place so you can automate more.



### Key Features:

- Multiple tools, robots and applications – for multiple returns.
- Save cost and increase productivity with flexible automation tools. One system, zero complexity.
- Save time and grow your business fast with unified programming and easy redeployment

## OnRobot End of Arm Tooling Products





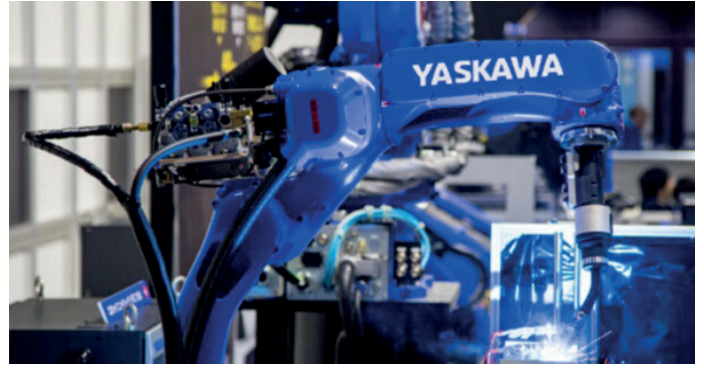
# Industry Solutions

## Robot Solutions For Nearly Every Industry and Application

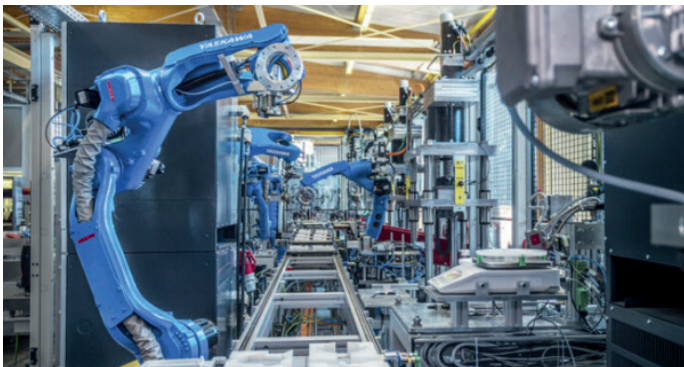
Robotics has been used for decades in the automotive industry, but many industries since have seen the benefits of robotic automation. The rule of thumb for what industrial tasks are best for robots is the “Three D’s” rule: Any task that is Dirty, Dull or Dangerous. Typical robotic applications are simple and repetitive tasks that require dedicated resources to perform.



OTC Daihen Robot Welding



Yaskawa Robot Welding



Assembly



Press Brake Tending



Painting



Material Removal



Palletising & Depalletising



Machine Tending



# Robot Service and Maintenance



We pride ourselves in providing technical servicing and support for all our customers, as we believe expert service goes beyond delivering industry-leading robotic and automation solutions.

Our experienced and dedicated team are strategically located throughout New Zealand to help optimize equipment utilization through comprehensive, value added support programs designed to ensure maximum robot performance and return on investment over the life of the asset.

We currently service and maintain in excess of 200 robots operating throughout New Zealand. These include successful

installations of robotic applications such as MIG/MAG welding of ferrous and nonferrous metals, plasma welding and cutting, routing

of fiberglass and plastics, materials handling and packaging, palletizing, machine and press brake tending applications.



# Robot Operator Training



Maximise Your Robotic Equipment Performance and Return on Investment with Training from Autoline.

Our mission is to provide training services for our customers so they are technically trained and have the knowledge to perform their job as a robot operator.

Autoline offers customers a robot training service which covers all types of applications and different operator levels to help you use, understand and maintain your products. Practical hands-on training at Autoline or on-site training at your site can be scheduled to teach robot operators of all experience levels increase knowledge, improve skills and reinforce safety practices.

Standard, modified and customized training courses are available by our trained robot technicians and programmers to suit your robot/s and application. Autoline robot technicians are active service and application engineers with an extensive knowledge of our products including plentiful of experience working with Yaskawa, OTC Daihen and Doosan equipment.



## Advantages of Training Include:

- Learn through hands on instruction on your own cell to give you security and confidence in your facility.
- Help impart operators with knowledge to enable proper action and meet your occupational health and safety obligations through third party training and certification.
- Instructors are active service technicians and have unparalleled industry knowledge of robotic equipment.
- Support you at an early stage so that problems are identified early.
- Assist you with your processes and thus help to optimize and secure the productivity of your facility with increased productivity.
- Follow up or additional training is available.



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