



| A Symbol of Sincerity, Professionalism,
| Accountability and Shared Prosperity. |

Injection Molding System / Robot System / Metal System / Food and Medical System / Blow Molding System /
Inspection System / Energy Device System / Intelligent Manufacturing System / Intelligent Decision System /
Intelligent Logistics System / After Service

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FANUC

Networking:

- Network function achieves unified production management.

Security:

- Complies with all security standards in Europe and the US.



- Fist/Mini Robot M-1iA/ LR Mate200iD
- SCARA Robot R-3iA / 6iA/ 12iA

- Cooperative Robot CR-4iA/ 7iA/CR-35iA

- Dust-free Cooperative Robot CRX-10iA

- Arc Welding / Small-Medium Robot R-0iB / M-710iC / M20iA

Simple and Quick Start Robomachine and Robot operations

- Use QSSR construct system and significantly shorten the design and system starting time; install, manage setting and operate robotic system easily.
- Connect the machine and robot easily using an ethernet cable.
- Connect operations by setting instruction on the display monitor.
- Operate the robot using a shortcut (M-code) in the machining process.



- Completed robot set-up



- Connected cable



- Completed transmission interface set-up



- Robot System Screen



- Robot System Screen



- The small drilling machines ROBODRILL α-DiB and LR MATE 200iD are the best robotic systems for automatic workpiece exchange.
- Connect them using one internet wire, allowing both to review each other's program information and edit automatically through M-code, or enable robot control and tool correction externally from the CNC tooling machine, without the need to open and close the protection cover frequently.

FANUC

Articulated Robot

From 0.5kg to 2300kg

Increased Productivity

- Handles and lifts workpiece that are heavy for humans.
- Operates in high speed compared to human performance.
- Works day and night without breaks.

Improved work Reliability

- Replaces workers and completes complex operation.
- Provides long-term operation once deployed.
- No employee attendance or resignation issues to worry about.

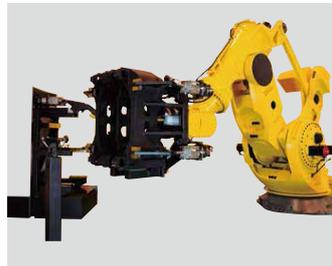
Increased Production Quality

- Delivers higher operation accuracy compared to human performance.
- Provides stable operation quality.

Reduced Cost

- Reduces labor cost by deploying robots.
- Changes the process or system easily and conveniently.

Robot applications:



• Material feeding



• Arc welding



• Piece-picking and distribution



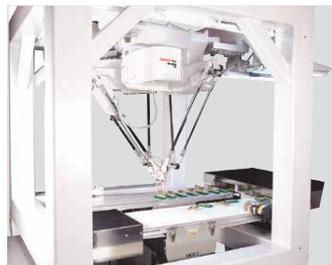
• Delivery



• Assembly



• Deburring



• Medication alignment



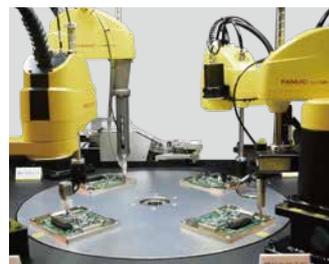
• Food pick-up and display



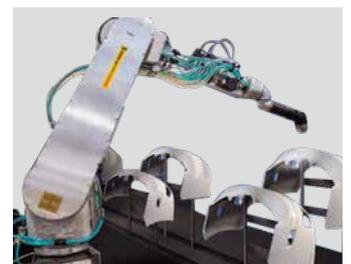
• Inspection



• Laser welding



• Display



• Coating

ROBOT PERIPHERAL EQUIPMENT



VTV-9000 Series

- ViSCO's originally developed software image processing inspection system "Vision Manager," is included in hardware.
- Features high-precision image processing technology, high-speed processing, and an inspection algorithm that rivals human capabilities.
- Easy to operate using virtually intuitive control and achieves fluent availability.



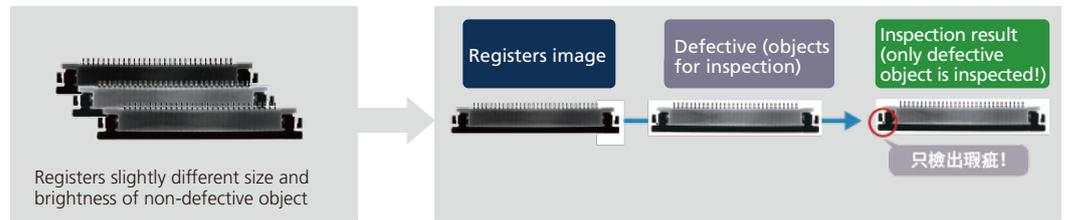
Achieves high speed processing and high accuracy appearance inspection

- Ability to inspect scratch and foreign matter on gradient image
- Inspects scratch and foreign matter on images with uneven shade or shadow; select inspection mode according to the direction and gradient difference of marks and foreign objects.



Identifies deformities in non-defective objects using DeFinder

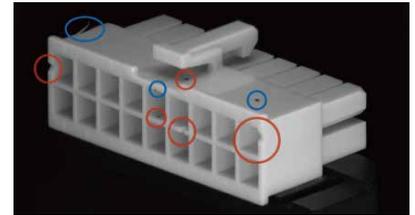
- By registering several non-defective models, DefFinder® enables the performance of inspections that absorb slight variations in non-defective products.
- DefFinder® enables visual defects such as flaws, dirt, and foreign matter to be stably detected and inspected.



Achieves high speed and high-precision appearance inspection

Super Focusing Camera capable of visual inspection

- The Super Focusing Camera captures images at an angle, but the whole image is in focus!
- Defects in connector holes may not be shown in images captured by a vertical/horizontal camera. However, the Super Focusing Camera can reliably detect such defects.



Device Inspection using VTV-9000

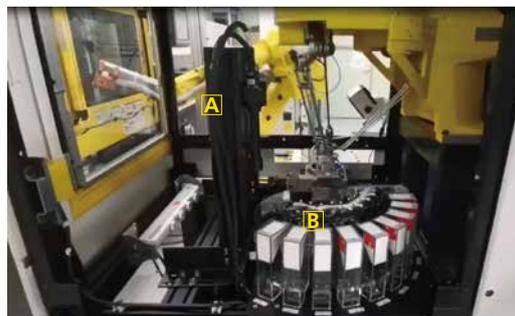
Gear appearance inspection

- Manipulator controls the gear and rotates it to capture image of each tooth side; performs high-precision inspection of lateral, top and bottom sides.

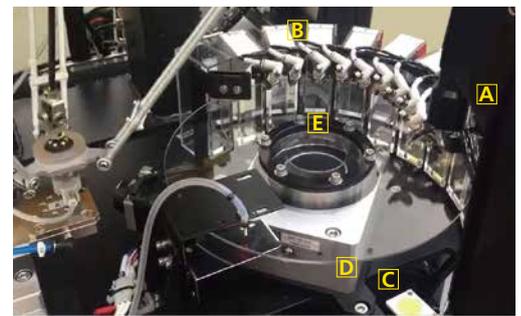


High-precision inspection

- Appearance and size inspection.
- Inspection accuracy: <0.01mm.
- Identifies defective object with filling failure.
- Resolution: 0.0017mm
- Component size: <5mm



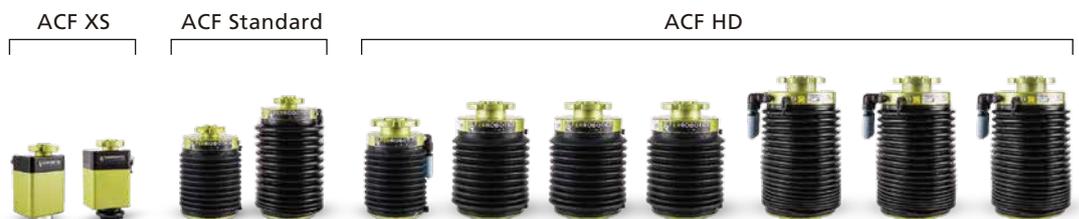
A. ViSCO lens set
B. Cave-diving material collecting boxes



C. ViSCO light source set
D. Parts for inspection.
E. Material-dividing air-blowing module

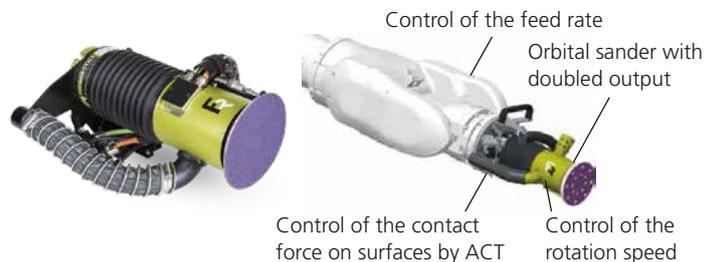
ACF (Active Contact Flange)

- ACF (Active Contact Flange).
- Top technology from Austria. The process force remains constant even with changing orientations. No additional application programming required.
- Interactive compensation for surface tolerances with guaranteed consistent contact force. No adaptation of the robot tracks.
- Cleverly simple integration using standard interfaces. The constant feedback on the contact situation, position an actual force smoothly performs the quality inspection.
- Applies to various brands of robots.
- Surface treatment with Plug&Play solution: Grinding, polishing, cleaning, laminating, stripping, brushing, deburring, pressing, ...
- All types of material: Steel, aluminum, titanium, magnesium, carbon, plastic, wood, ceramics, coconut fiber, stone, ...



AOK (Active Orbital Kit)

- Intelligent sanding solution for texture-free surface treatment.
- The AOK is a finely tuned system package based on the Active Compliant Technology (ACT). An orbital sander is optimized for robot use. This integrated complete solution automates the industrial sanding process with individual control of all process parameters.
- The enormously durable sander is designed for industrial use and delivers twice the output of standard devices, 24 hours a day, 7 days a week.



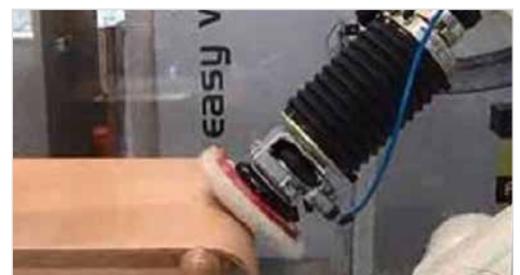
• Motorcycle fuel tank grinding



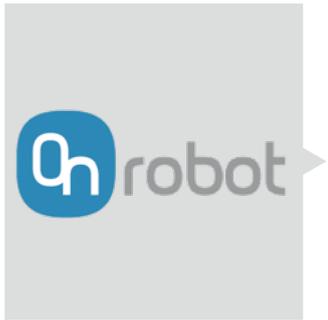
• Wheel rim polishing



• Carbon fiber grinding



• Furniture grinding and polishing



OnRobot Modular Gripper and Quick Changer / High-precision Moment Sensor

Features of Modular Gripper Jaw-Quick Change:

- Multi-purpose Plug-and-produce design.
- Easy deployment with out-of-the box grippers reduces programming time by 70%.
- Flexible grippers can be used for a wide range of part sizes and shapes.
- No external air-feeding required; dust-free, noise-free, and easy to operate; no additional cost.

Large Stroke:

- Automatically detects the stroke at program start without initialization. The maximum grip stroke of the RG2 is 110 mm (adjustable).

Grip indications:

- Automatic "lost grip detection", "grip detected", "continuous grip" and "measure width" detections remove the need for manually programming these features.

Customizable fingertips:

- The fingertips of the gripper can be easily customized, fitting the product shape for stable gripping.

Integrated Software:

- The gripper comes with pre-integrated software that is easy to install and program, so even employees with no technical background can set it up.



3FG15



RG2-FT



Soft Gripper



Gecko Sing Pad Gripper



VG10



VGC10



OnRobot Flexible, adaptable 2.5D vision system:

- Compatible with any robot brand.
- Equipped with one-picture calibration and part recognition, integrates seamlessly with the robot interface and gripper through the OnRobot Quick Changer.
- Affordable, efficient 2.5D vision offers depth perception for varying heights or stacked objects.
- Flexible, adaptable vision system with on-robot or external mounting is ideal for almost any collaborative application.



OnRobot Hex force/Torque sensor – Giving the sense of touch to your robot

Features for High precision Moment Sensor

- High-accuracy sensor technology provides 95% better quality in insertion and assembly tasks.
- Easy programming gets even complex polishing tasks up and running in less than a day.
- Flexible sensor extends automation possibilities to processes that weren't previously possible.



Quick Changer / Dual Quick Changer

- Easy and fast tool changing in less than 5 seconds.
- With its low weight of only 200g (7 oz.), the Quick Changer has a low impact on the robot payload.
- Can be used on any robot arm, drone, or other equipment with an ISO-9409-1 flange.
- Small size, high payload up to 20 kg.



TOUCHÉ
SOLUTIONS

T-Skin New Concept Of Industrial Cobot

Product features

- Fast to deploy and scalable.
- Seamless Integration.
- High Sensitivity Sensors.
- Immune to Magnetic & RF interference.
- Compliance with CE, ISD/TS15066. international safety standards.



Application solutions:



- Personnel maintenance work



- Streamlined collaborative assembly operation



- Independent human-machine collaborative operation



- Interactive human-machine operation



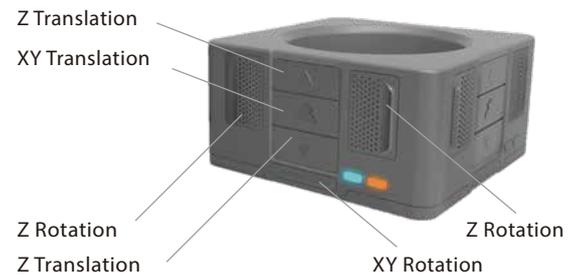
- manual material feeding



- manual inspection

M-Tech touch sensor intuitive collaborative learning

- Simplify teaching point and increase changing efficiency of production line and reduce labor cost.
- Positioning accuracy up to 0.05mm
- Unaffected by size or loading of robotic arm, easy teaching point with normal force.



Z Translation
XY Translation

Z Rotation
Z Translation

Z Rotation
XY Rotation

MIRKA

AIROS The perfect robotic sanding solution



- The first smart electric sander for industrial robots.
- The rpm stays constant, even under heavy load, for consistent quality at all times.
- Lubrication oil free.



MORGLORY INTERNATIONAL CO., LTD.

TAICHUNG | 40757 18F.-8, No.386, Shizheng Rd., Xitun Dist., Taichung City 407, Taiwan
TAOYUAN | 33393 6F., No. 580, Sec. 1, Minsheng N. Rd., Guishan Dist., Taoyuan City
PENANG | No.43-2, Jalan Todak 6, Seberang Perai Tengah, 13700 Penang, Malaysia
H A N O I | 15 Floor Diamond Flower Tower No.48 Le Van Luong str., Thanh Xuan Dist.
Hanoi City 11415, Vietnam
I N D I A | Global Rasoni Industrial Park Gat No.182-184 Nr.Lonikand ,Phulgaon ,
Pune-412216 (Maharashtra State)

TAICHUNG	Tel +886-4-22586003	Fax +886-4-22586002
TAOYUAN	Tel +886-3-3122115	Fax +886-3-3122116
PENANG	Tel +60-4-3842136	Fax +60-4-3842137
JAPAN	Tel +81-905-5011981	Fax +81-426-443414
HANOI	Tel +84-24-32020809	Fax +84-24-32020806
INDIA	Tel +91-2066787620	Fax +91-2066787620



JIANG SU CENGLARY ENGINEERING&TRADING CO. , LTD.

JIANGSU | Tower C, Room 2308 Longqi Lijing, NO.757 Qianjin East Road,
Kunshan 215300 , Jiangsu Province China.

Tel +86-512-57379570 Fax +86-512-57379571

CHENGDU | Rm.1413-1414 , Zhujiang Intl Office Building, No .1588 , 3rd Section , Guanghua Avenue ,
Wenjiang District , Chengdu , Sichuan Chengdu City , 611130 , Sichuan P.R. China.

Tel +86-28-82202386 Fax +86-28-82202386

DONGGUAN CENGLARY TRADING CO., LTD.

Room 1806-1807, Building 8, Vanke plaza, No.1 Changqingnan road,
Changan town, Dongguan city , 523845 , Guangdong P.R. China.

Tel +86-769-85536003 Fax +86-769-85536977

TIANJIN CENGLARY TRADING CO., LTD.

No.1-915,1988, Yingbin Avenue, Tianjin Pilot Free Trade Zone (Central Business District),
Tianjin City, P.R.China.

Tel +86-22-66218571 Fax +86-22-66218572

