



AMICITIA TECHNOLOGIES CORPORATION

COMPANY PROFILE



Certification Partner Global
An Australian Owned Company
ISO 9001 : 2015

Registration Number:
Original 9001 Registration Date:
Current Registration Date:
Expiry Date:

QAC/R63/0254
01/Nov/2019
01/Nov/2019
01/Nov/2022

COMPANY OVERVIEW

AMICITIA Technologies Corporation started in a glass beam supplier serving solar manufacturing chain in the Philippines. We have extended our core business to Metal/Tooling Fabrication and Automation. As we are continuously growing, we've also acquired trading partnership of standard equipment (OEM) and consumables items of our customers.

MISSION STATEMENT

Create exceptional products that are designed to fit the customers exact specifications. To build long term relationships with our customer and clients and provide exceptional customer services by pursuing through innovation and advanced technology.

OUR VISION

To become a global leader in Original Equipment Manufacturing for various industrial sectors in motion and vision technology equipment.

COMPANY OVERVIEW

QUALITY POLICY

AMICITIA Technologies Corporation is committed to provide and manufacture excellent solution through quality products and services such as on time delivery and other services and support to maintain long-term relationship to customer, external providers and relevant interested parties. To provide good working environment, appropriate education, training and experiences, other work opportunities to satisfy legal and other requirements to continually improve the effectiveness of the quality management systems.

GOALS

Develop a strong base of Key customers. Increase assets and investment of the company to support development and capacity services.

To build good reputation in the field of Electronics and Semiconductor and become a Key Player in the Industry.

CORE VALUES

We believe in treating our customers with respect and faith, we grow through creativity and innovation. We integrate honesty, integrity and business ethics into all aspects of our business functioning.

OUR LOCATION

Plant Address: Lot 8 Block 5 Tartaria Road, Brgy. Tartaria Silang Cavite 4118, Philippines

Factory: 1000 sqm lot size



AMICITIA Building



Lobby



Conference Room



Prod'n Meeting Room



Admin and Finance Office



Engineering Office



Material Storage Room



Assembly Room



CNC Production Area



EDM & Wirecut Process



Conventional Area



Metal Fabrication



Temporary QC Inspection Area



Canteen

IN-HOUSE MACHINE CAPABILITY AND TOOLS

Conventional



Milling Machines



Lathe Machine



Surface Grinder

CNC



CNC Milling Machines

CNC Lathe Machine

CNC Lathe Machine
(slant bed with automatic feeder)

EDM and WIRECUT



CNC EDM Machine



EDM Sinker Small Hole Machine



CNC Wirecut Machine
500mm (Y) x 800mm (X)



CNC Wirecut Machine
700mm (Y) x 1000mm (X)

ISO CERTIFIED 9001:2015 QMS

IN-HOUSE MACHINE CAPABILITY AND TOOLS

Other Special Process Machines



Router Machine
> Plate (4ft. x 8ft. x 50mm)



Fiber Laser Cutting Machine
> Round Pipe (6 Meters x 250mm Dia)
> Plate (4ft. x 8ft. x 50mm thickness)



Cutting Band-Saw Machine



Bending Machine
> 4 Meters x 12mm thickness



Laser Welding



SMAW Welding



TIG Welding



MIG Welding

OUR SUPPORT EQUIPMENT:

Welding Machine (200 Amp)
Welding Machine (250 Amp)
Welding Machine (200 V)
Welding Machine (250 V)
Welding Machine WIP Arc
Manual Press (600 kg)
Angle Grinder
Mini Grinder
Straight Grinder (4 In.)
Straight Grinder (8 In.)
Hand Drill (0-13) heavy duty
Hand Drill (0-13)
Plasma Machine (Cutting for Electrical)

OUR SUPPORT EQUIPMENT:

Air Compressor 3 Phase
Air Compressor Single Phase
Air Compressor
Furnace
Hydraulic Press
Cutting Machine
Flat Surface Table
Rotary Dividing Head (6" dia.)
Motor Inverter w/ Housing

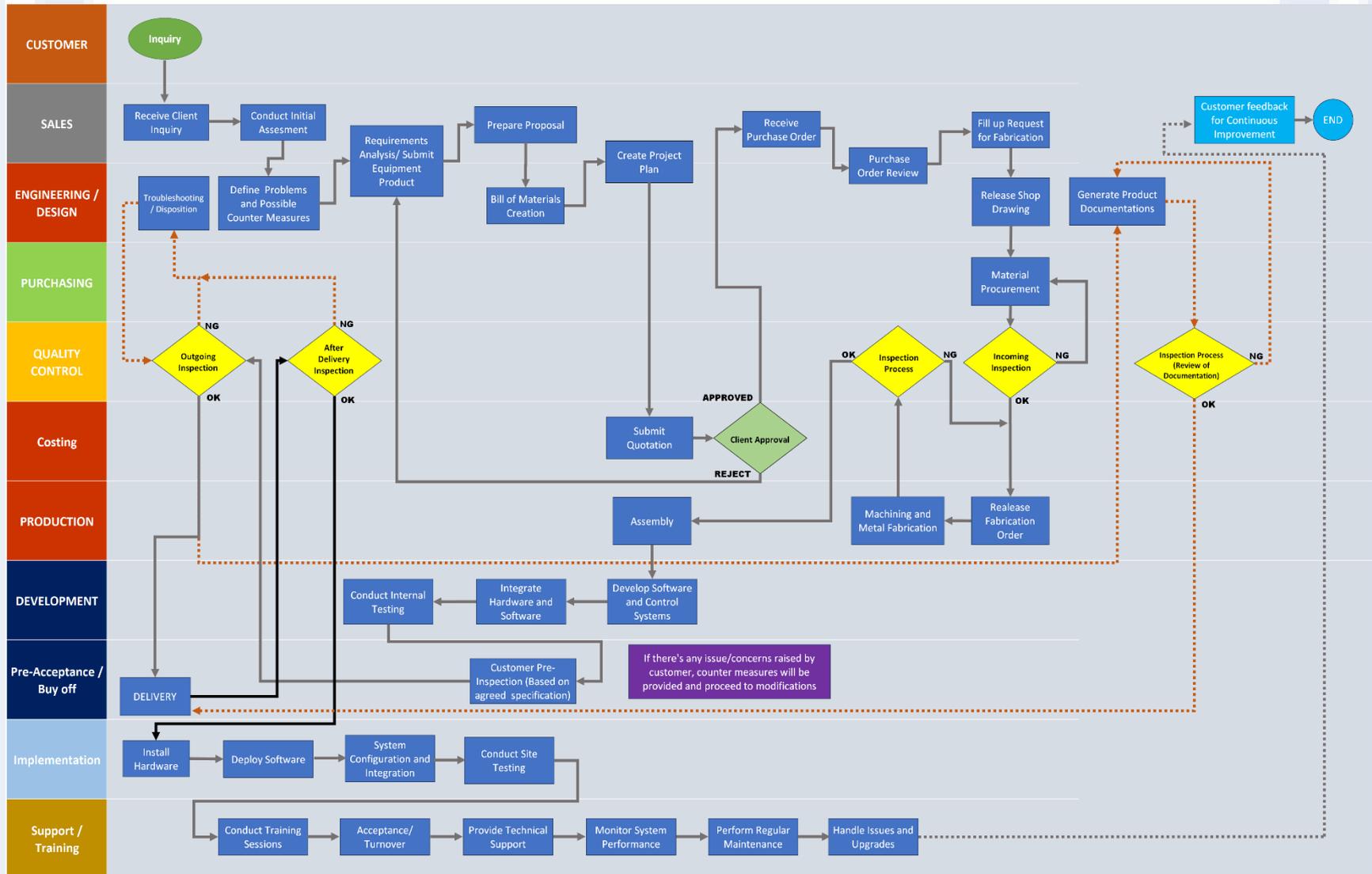
MEASURING TOOLS:

Gauge Block
Digital Micrometer 0~25mm
Micrometer 0~25mm
Micrometer 25~50mm
Digital Caliper 0~150mm
Vernier Caliper 0~150mm
Vernier Caliper 0~200mm
Vernier Caliper 0~300mm
Weighing Scale
Roughness Tester

ELECTRICAL TOOLS:

Wire Stripper
Wire Crimper
Long Nose
Fliers

OPERATIONAL PROCESS FLOW CHART



BUSINESS CAPABILITY

- AUTOMATION PROJECTS



BUSINESS CAPABILITY

- AUTOMATION PROJECTS



Deburring Machine



Deculler Machine



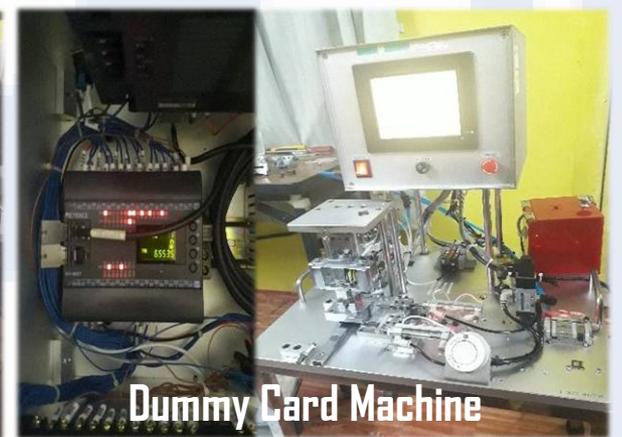
Auto Cap Dispenser



Laser Marker Machine



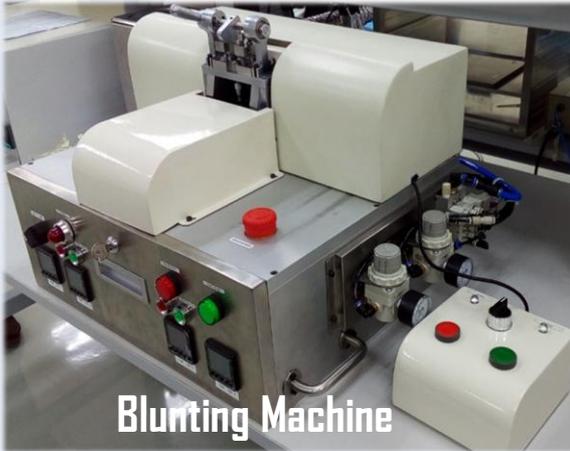
Work Bench Assembly



Dummy Card Machine

BUSINESS CAPABILITY

- AUTOMATION PROJECTS



Blurting Machine



Label Applicator Machine



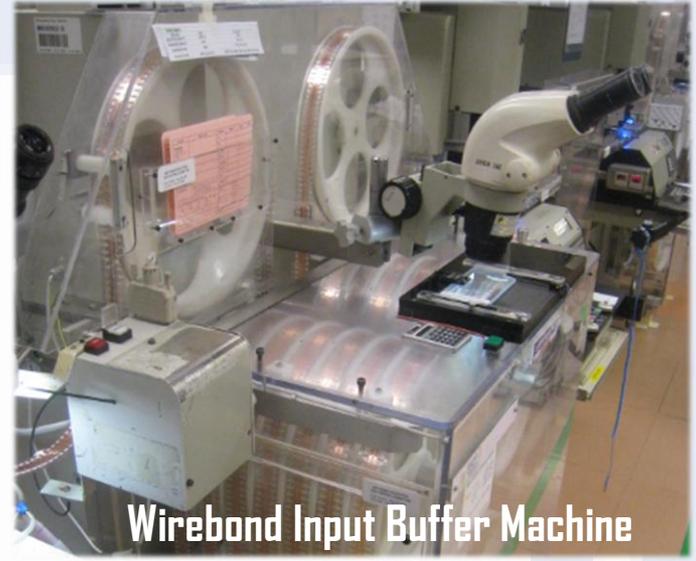
Laser Marker Machine



Cap Sorting Machine



Leak Test Machine



Wirebond Input Buffer Machine

BUSINESS CAPABILITY

VISION SYSTEM SOLUTIONS



General Specifications:

- 5MP Monochrome Camera, 30 fps
- High intensity LED lighting
 - Strobed
 - Constant intensity
- Quality inspection of surface artifacts
- User-friendly OEM AmiVue software
- Windows®-based application
- Inspection data management
- SECS-GEM capability (optional)
- Auto-focus algorithm (available upon request)

Preliminary Capabilities:

- Surface defect inspection
- Object presence/absence
- Color/quality grading
- Metrology, gaging & measurement
- Identification inspection
 - Barcode
 - 1D
 - 2D
 - QR code
 - Datamatrix
- Character recognition
 - OCR
 - OCV
- Robot guidance
- Other inspection criteria required by client

BUSINESS CAPABILITY

- **LASER MARKING MACHINE**



- **LINEAR ACTUATOR (X,Y,Z movement)**



- **COBOT**



BUSINESS CAPABILITY

■ METAL AND TOOLING FABRICATION

- FABRICATION OF METAL JIGS AND FIXTURES
- STAMPING / TOOL FABRICATION
- SEMI TO PRECISION TOOL PARTS

MANUFACTURABILITY PROCESS

- ✓ Wire Cut, EDM
- ✓ CNC, Grinding, Milling
- ✓ Stamping
- ✓ Bending
- ✓ Measurement tools for Q.A



BUSINESS CAPABILITY

■ METAL AND TOOLING FABRICATION



STAMPING JIG



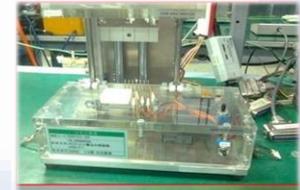
GREASING JIG



PAINTING JIG



CHECKING JIG



WRITER JIG



STENCIL CABINET



STEEL RACK



ALUMINUM PROFILE RACK



FEEDER RACK



STAINLESS PUSHCART

BUSINESS CAPABILITY

■ SUPPLY OF SPARE PARTS AND CONTROLS

- ✓ SILICON ROLLERS/RUBBERS
- ✓ ELECTRONIC PARTS
- ✓ ANY CONSUMABLE ITEMS



BUSINESS CAPABILITY

■ SUPPLY OF SPARE PARTS AND CONTROLS

- ✓ KEYENCE
- ✓ OMRON
- ✓ PNEUMATIC
- ✓ ORIENTAL MOTOR
- ✓ BOWL FEEDER



BUSINESS CAPABILITY

■ TRADING OF STANDARD MACHINES / DISTRIBUTORSHIP



CNC ROLLING MACHINE



CNC LATHE MACHINE



CNC MILLING 25K RPM



CNC MILLING 10K RPM



BENDING MACHINE



CNC ROUTER MACHINE



CNC EDM MACHINE



COMPRESSOR

BUSINESS CAPABILITY

■ TRADING OF STANDARD MACHINES / DISTRIBUTORSHIP



□ LASER MACHINE



□ LASER WELDING MACHINE



□ WIRE HARNESSING MACHINE
(CUTTING, STRIPPING, CRIMPING, DIPPING, INSERT)

BUSINESS CAPABILITY

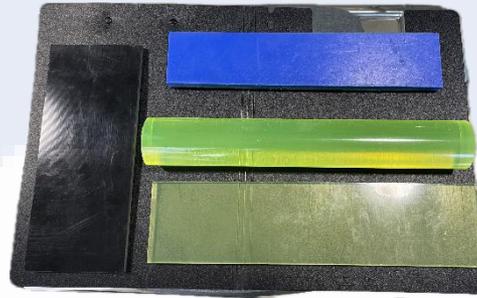
■ VARIOUS TYPES OF AUTOMATIC VOLTAGE REGULATOR (AVR)

Ranges: 5KVA to 5000KVA



BUSINESS CAPABILITY

- ENGINEERING PLASTIC



BUSINESS CAPABILITY

■ Partnership with OPT Machine Vision

Products



Vision Software:

Includes SciVision Vision development Kit, Smart3 Visionsoftware and visual control hardware for different scenarios.

Vision control hardware:

Including Q2C/EVC2 vision controller, SC series smart camera, etc.



Sensor:

8 series, including trough photoelectric sensor, photoelectric sensor, optical fiber sensor, safety sensor, proximity sensor, ultrasonic sensor, color sensor, measurement sensor, etc.



Moving Parts:

Linear motor, linear motor stator, DD motor, linear motor module, standard screw slide, dust-free screw slide, built-in screw slide, standard belt slide, dust-free belt slide, combined slide.



Industrial Computer:

3U desktop and 4U overhead two series, support 7 expansion slots, 6 to 13 generations of the full range of Intel CPUs.



Smart Code Reader:

Resolution 0.4MP-20MP full coverage, Including manual focus series and automatic focus series, deep learning algorithm support, multi-core data processing, to achieve ultra-high read rate.



3D sensor:

There are ultra-high speed, high precision and economic series, complete specifications, to meet a variety of costs, vision, precision needs.

BUSINESS CAPABILITY

■ Partnership with OPT Machine Vision



Light Source:
44 series, nearly 1,000 standardized products, more than 32,000 non-standard customized solutions, shipments of the world's leading.



Industrial Cameras:
Area Scan camera resolution covers 0.4MP-150MP, Line Scan camera resolution covers 2k~16k, transmission interface GigE, USB, CameraLink, CoaXPress is optional; Good transmission stability, high image quality, a wide range of application scenarios.



Industrial Lens:
Industrial lens products: The product categories cover Line Scan lens, Fixed Focus lens, zoom lens, telecentric lens, special lens, etc., to meet the application needs of different industries and different scenes.



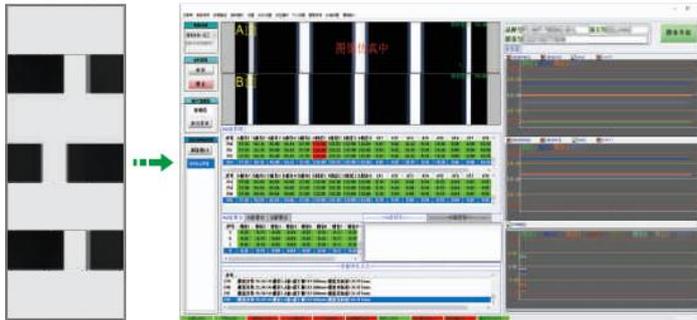
Measuring System:
With high precision, high efficiency, simple operation, rich functions and other advantages, complete specifications to meet a variety of product testing needs; Focus on the field of precision dimensional measurement, build a full range of measurement technology.

BUSINESS CAPABILITY

OPT Machine Vision Applications

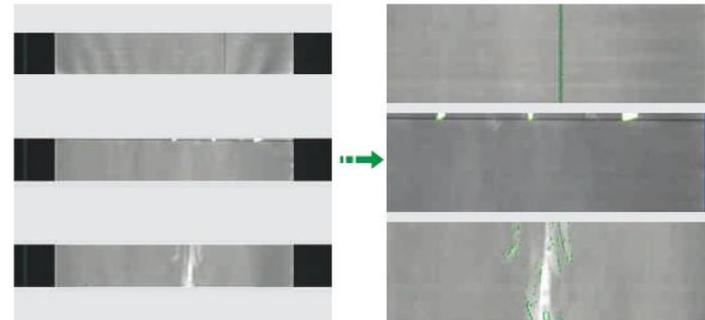
Lithium Battery Applications

Coating Machine



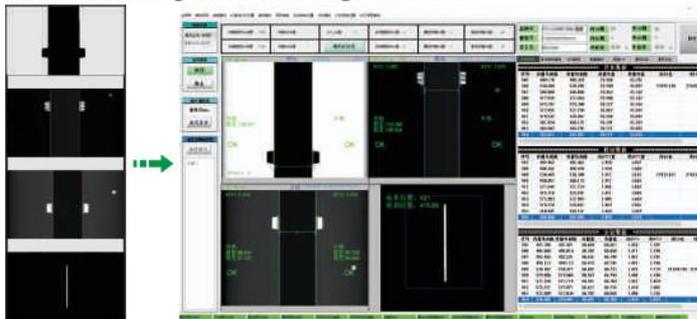
Detection of blank width and alignment of upper and lower coatings; Theoretical accuracy up to 0.1mm; operation speed $\leq 120\text{m/min}$

Splitting Machine



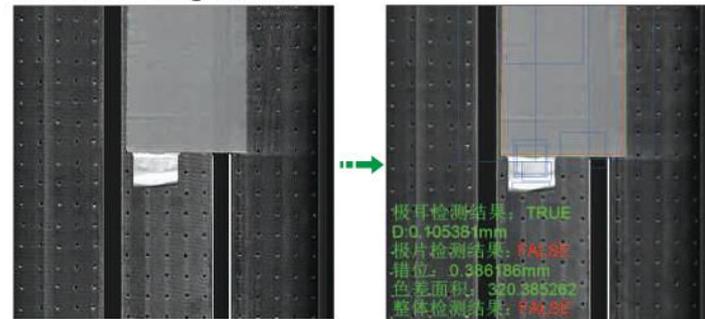
Take images to detect the coating defects such as single-sided coating, watermark perforation, bright spot, damage, powder, dirt, particles, bubbles, etc.
Max. electrode size: 800mm Speed: 120m/min

Laser Slitting and Cutting Machine



A/B sides defect detection; speed less than 90m/min; 500mm width

Electrode Inspection



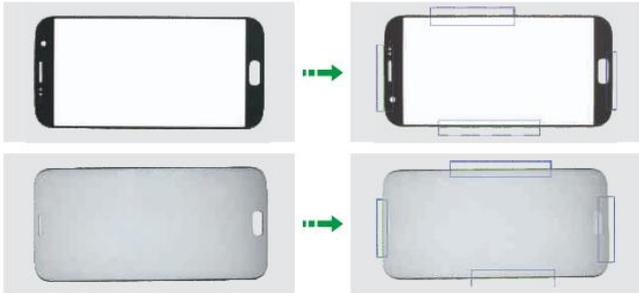
Electrode surface defect detection
Up to 260pcs/min detection speed

BUSINESS CAPABILITY

OPT Machine Vision Applications

Consumer Electronics Applications

3D Lamination



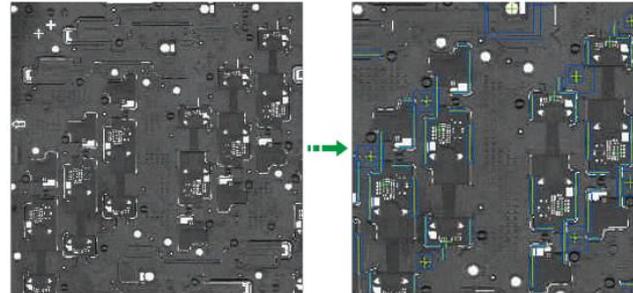
Accurately laminate the curved glass screen with a filling film

Module Lamination



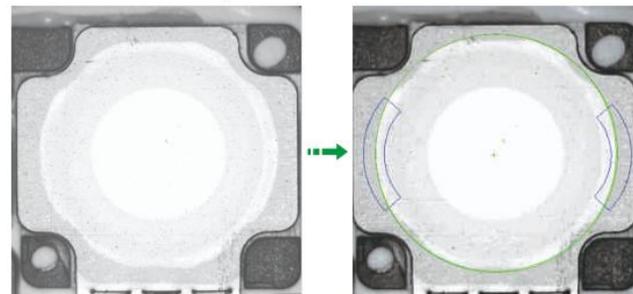
The concentric distance of LED alignment is 0.025mm.
The success rate is higher than 99.7% when laminating by module alignment as the position error in X and Y directions can be eliminated.

OMM for FPC



Acquire the image with the line scan camera in large FOV and through the SciSmart machine vision software, various complex dimension information can be quickly obtained.
FPC size: 320×240mm Accuracy: $\pm 0.015\text{mm}$

Camera Assembly



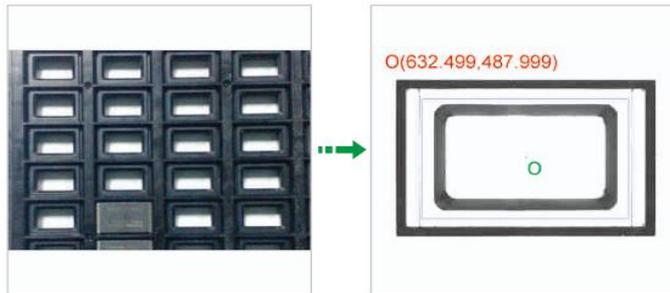
After taking an image, SCI software used the 2 short arcs on the foam to fit them into a circle for foam lamination according to the center of the circle.

BUSINESS CAPABILITY

■ OPT Machine Vision Applications

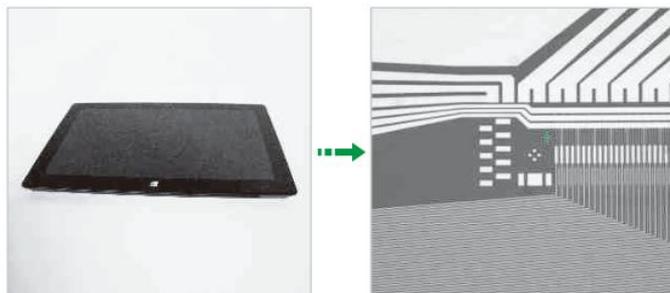
Semiconductor Applications

IC chip location



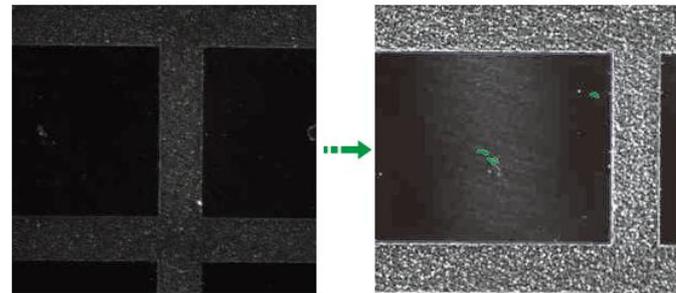
The placing slot of the tray is higher than the surface of the chip. If the lowangle lighting method is used, the tray will partially block the light, so highangle lighting method is used to light the surface of the chip, so as to achieve accurate positioning effect.

Tablet touch screen detection



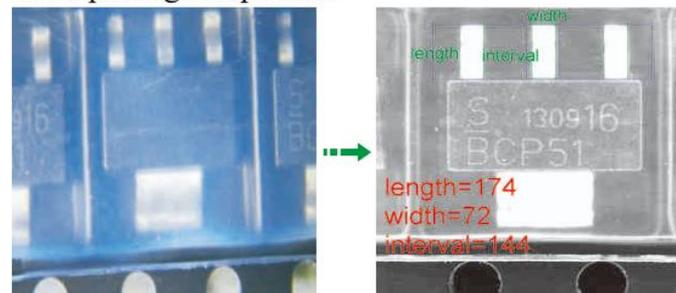
The line on the producade of metal material, which requires high-precision and small-field visual inspection. The use of large-magnification telecentric lens with red light source can better highlight the outline of the integrated circuit and achieve more precise detection.

Defect detection on silicon surfaces



Detection of edge/corner damages, cracks and fragments on silicon surfaces with a 60-degree ring light at shorter working distance

SMD package inspection



Piece by piece inspection with 15 degree ring light analyzing the pitch and the length of each pin

BUSINESS CAPABILITY

OPT Machine Vision Applications

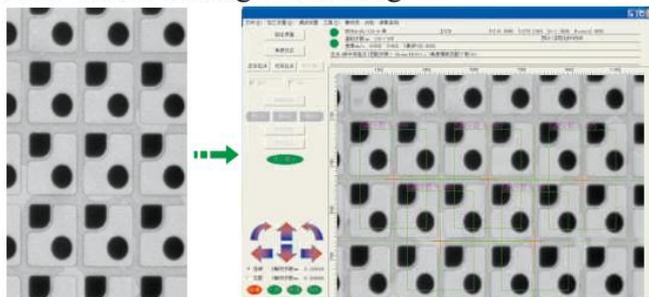
Laser Applications

Defects detection of lithium battery top cover after welding



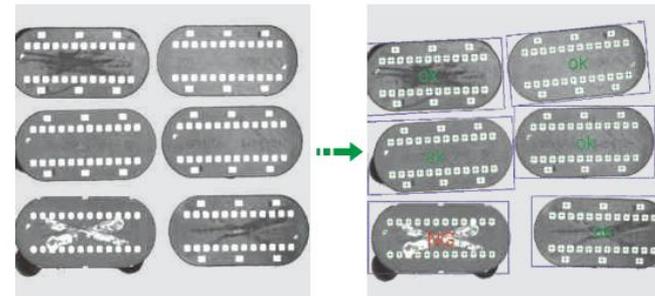
The image was processed by self-developed welding defect detection algorithm, and the defects such as underwelding, welding deviation, welding hole and welding slag were quickly and accurately identified.

LED Wafer Cutting Positioning



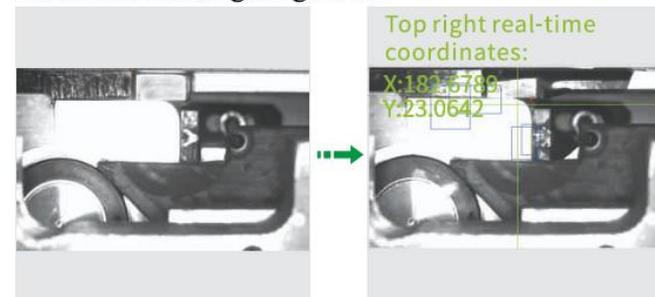
CCD camera and SciSmart software are used to correct the angle or cut track, extract contour, auto focus, etc. for guiding the laser to cut wafer.

IC Sorting Machine



Locate ICs for their pick and place with the template matching tool; sort out pass and fail units with Blob analysis tool.

Laser Pre-welding Alignment



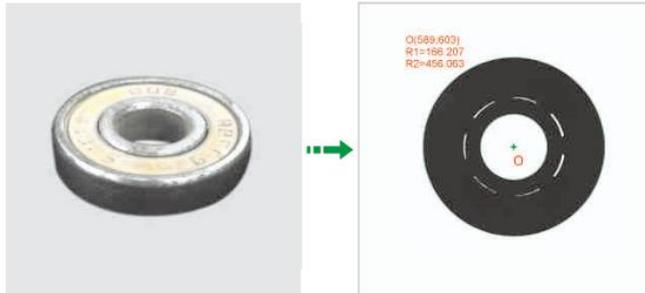
Quickly locate the battery's lower left and upper right's vertices with Find Line tool; calculate the coordinates of pre-welding points by the script, and then send them to the laser motion platform for welding

BUSINESS CAPABILITY

■ OPT Machine Vision Applications

Automotive Applications

Bearing inspection



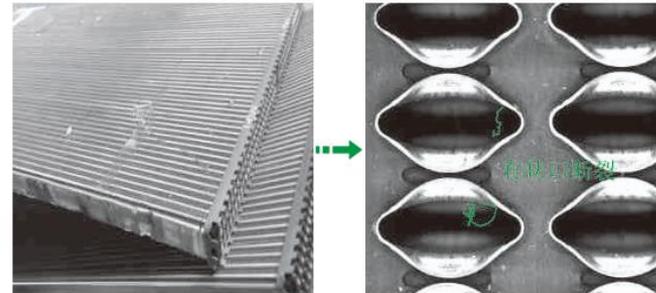
In order to avoid the ghost effect edge of the arcangle of the bearing and make the edge clearer, the parallel backlight is selected, and the telecentric lens is used to reduce the distortion and the size measurement is more accurate.

Inspection of windshield wipers



A dome light is used to illuminate the uneven surface for the inspection of the size and the correct assembly of wipers.

Inspection of holes



A low-angle ring light can be used to clearly inspect if the holes in car plate is damaged or cracks.

Inspection of solder joints of sheet metal



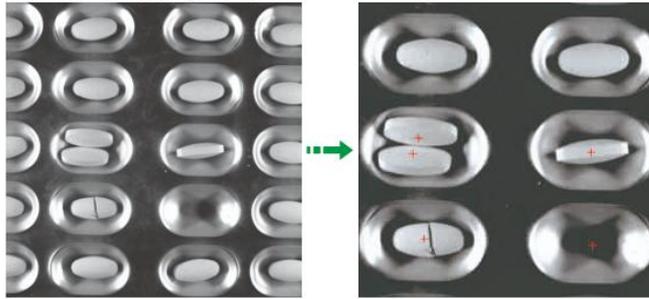
Several bar lights illuminate the big parts with multiple soldering points. This approach copes the problem of uneven surface of the metal sheet.

BUSINESS CAPABILITY

OPT Machine Vision Applications

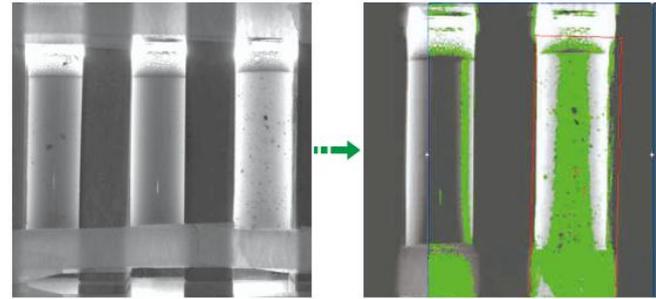
Medical Applications

Pills Packaging Inspection



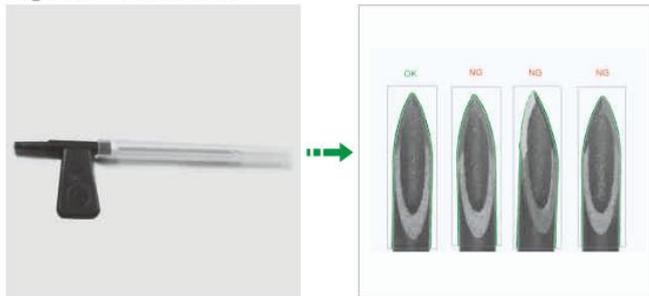
Use Blob analysis tools to analyze the broken, absent, misplaced or tilted conditions of the pills, and increase the quality of packaging.

Injection Detection



Detection of foreign material within the injection solution with Threshold and Blob analysis tools

Tip defect detection



There are several sections of different angles at the tip of the needle, and the conventional light source is difficult to take into account all sections at the same time. The Dome light source can achieve multi-angle lighting effects.

Drug bottle defect detection



Since the color of the liquid in the bottle tends to be red, according to the principle of similar color elimination, the use of red surface light source can get better image effect.

SERVICE SYSTEM

On-Call Service



Cooperate with



Customer

Spare parts Supplier



Technical Training



EXISTING MAJOR CUSTOMERS

▪ SEMICONDUCTOR

▪ ELECTRONICS

▪ NON SEMICON



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