Professional Solution – Automated Assembly Testing Fixture

Company Profile

30M

2022 Turnover

400

2022 Employee

52,000㎡

DG Headquarter

Area Allocation

20% Office

65% Assembly

15% Warehouse

STAFF STRUCTURE

Sales 8%

R & D 30%

Assembly 44%

QC 6%

Personnel 6%

Purchase 6%
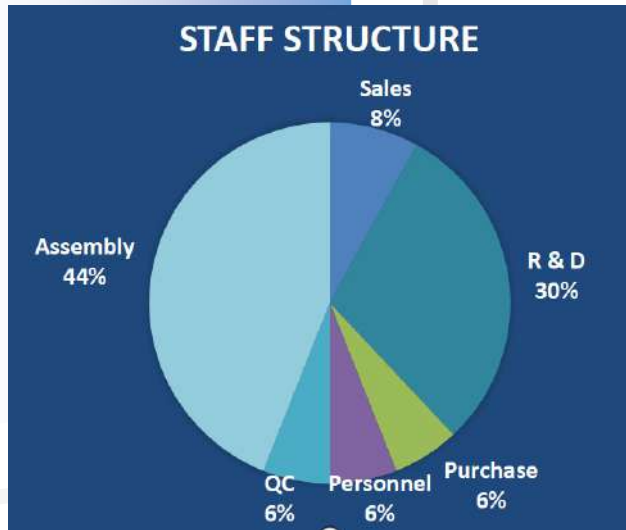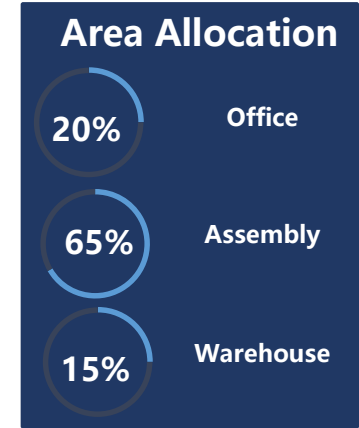
Equipment

Name	QTY	Function
CNC Engraving	129	Production
Milling	14	Production
Drilling	4	Production
Tapping	12	Production
Feeding	17	Production
Image Measure Instrument	6	Testing
Microscopy	1	Testing

Production Capacity

Month Capacity

Fixture	15000 sets
ATE	300 pieces

Complaint under 0.5%

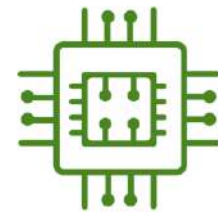|	2017年	2018年	2019年	2020年	2021年
	0.42%	0.39%	0.45%	0.37%	0.19%
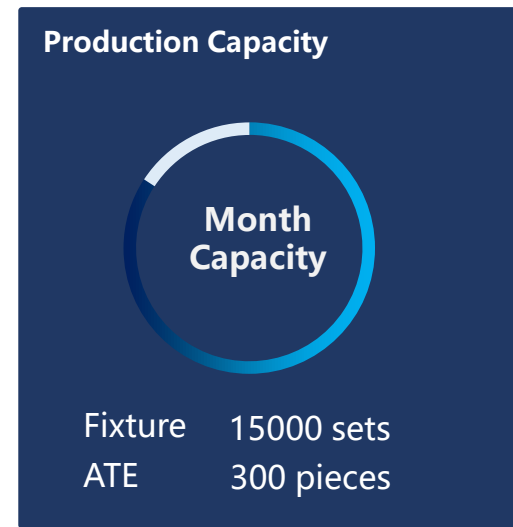
- Smartphone Testing Fixture Solution

- Automotive Testing Fixture Solution

- Electronic Testing Fixture Solution

- Semiconductor Testing Fixture Solution
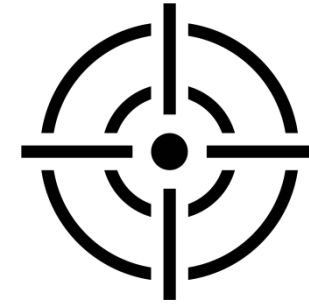
K YUNGKU TECHNOLOGY

Efficient Customization
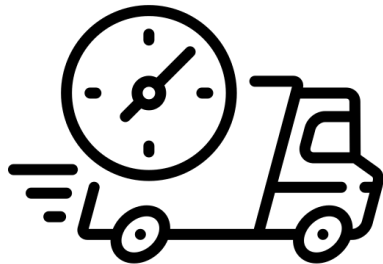- 3 days for manual
- 10 days for electric

High Accuracy
- Tolerance in 0.01mm

High Performance / Price
- Professional team
- Large scale production

Fast Lead Time
- 7 days for manual
- 10 days for electric

Best Service
- Reply in 4 hours
- Complain < 0.5%

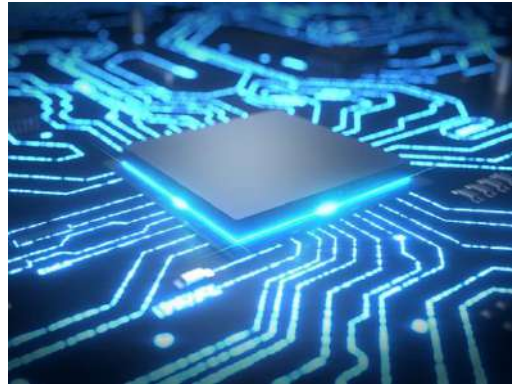**Smartphone Camera**

Automobile Camera

Face Recognition

Fingerprint Recognition

Smartphone Panel

Semiconductor

Drone Camera

Intelligent Production

KYUNGKU TECHNOLOGY

Dual Cylinder Moving Module

Application for
Smartphone CCM Camera

ASM AA Fixture (Floating Mode)

Application for
Smartphone CCM Camera

Motor Electric Connection Fixture

Application for
Smartphone CCM Camera

Optical P Value Adjustable Focus Testing Fixture

Application for
Smartphone Fingerprint Testing

Optical Fingerprint G5 Module Testing Fixture

Application for
Smartphone Fingerprint Testing

Assembled Smartphone Camera Testing Fixture

Application for
Camera Standard Testing

Smartphone Screen Cell Soft Needle Testing Fixture

Application for Smartphone Screen Testing

Smartphone Screen Testing Fixture

Application for Screen Stability, Reliability Testing

Smartphone Functional Testing Fixture

Application for Dumbphone Function Testing

Light Leaking Testing Fixture

Application for Smartphone CCM Camera

Smartphone Holding Fixture

Application for Smartphone Fixing & Stability

Foldable Phone Rear Cover Pressure Testing Fixture

Application for After-Sale Service Pressure Creation

IPU Airtight Testing Fixture

Application for Automotive IPU ECU Airtight Testing

Pneumatic Press Fixture

Application for Automotive ECU, IPU Controller

Manual Press Fixture

Application for Automotive ECU, IPU Controller

Camera AA Fixture

Application for Automotive Camera AA Testing

Automotive Camera Fixture

Application for Automotive Camera Testing

Tightness Fixture

Application for Automotive Camera Tightness Testing

YUNGKU TECHNOLOGY

EOL Testing Fixture

Application for automotive ECU / IPC testing

Dual Camera Test Fixture

Application for Automotive Dual Camera or Single AA Test

Aging Test Fixture

Application for Automotive Camera Aging Test

Automotive Camera Airtight Fixture

Application for Automotive Camera Airtight Testing

EOL Testing Fixture

Application for automotive ECU / IPC testing

ECU/IPU Controller Pneumatic Press Fixture

Application for Automotive ECU/IPU Controller Testing

Central Control PCBA Burning Fixture

Application for Automotive Main Function Testing

IPU Manual Testing Fixture

Application for Automotive ECU, IPU Testing

Frequancy Needle Fixture

Application for Camera Imitate Connection Testing

K YUNGKU TECHNOLOGY

Manual Press Fixture

Application for
Screen Testing

Automatic Press Fixture

Application for
Screen Testing

Pneumatic Press Fixture

Application for
PCBA Testing

Wi-Fi Signal Testing Fixture

Application for Wi-Fi Signal
Pin Connection Testing

Screw Locking Assembly Fixture

Application for VR Glasses
Locking Screw Testing

Glassess Protection Testing Fixture

Application for VR Glassess
Protection during assembly

YUNGKU TECHNOLOGY

Assembled Smartphone Camera Testing Fixture

Application for Camera Standard Testing

Multiple Camera Modules Assembly Fixture

Application for Camera Curing, Assembly

FPC Bending Fixture

Application for FPC Bending, Heating and Shaping

PR Axis L Shape Cover Press Fixture

Application for Drone Assembly

Dual Cylinder Pressure Fixture

Application for Drone Assembly Protection

Optical Focusing Fixture

Application for Cylindrical Lens Focus Adjustment

Solution in Semiconductor Testing Fixture

Chipset Function Testing Fixture

Application for chipset main function testing while heating

Chipset Testing Fixture

Application for chipset function testing

Chipset Function Testing Fixture

Application for chipset main function testing while heating

Chipset Knob Testing Fixture

Application for chipset function testing

Chipset ATE Testing Holder

Application for chipset fixing

QFN Testing Fixture

Application for QFN chipset

- Smartphone Module Testing Equipment Solution

- Camera Module Testing Equipment Solution

- 3D Camera Module Testing Equipment Solution

- Automotive Camera Module Testing Equipment Solution

- Fingerprint Module Testing Equipment Solution

- Customized Testing Equipment Solution

YUNGKU TECHNOLOGY

Automotive Scope

Automotive camera module full line

Automotive load / unload equipment

Screw locking

Plasma

Automotive AA equipment

Automatic baking equipment

Rear cover locking equipment

Airtight testing equipment

Aging test equipment

Internal prameter calibration equipment

Final checking equipment
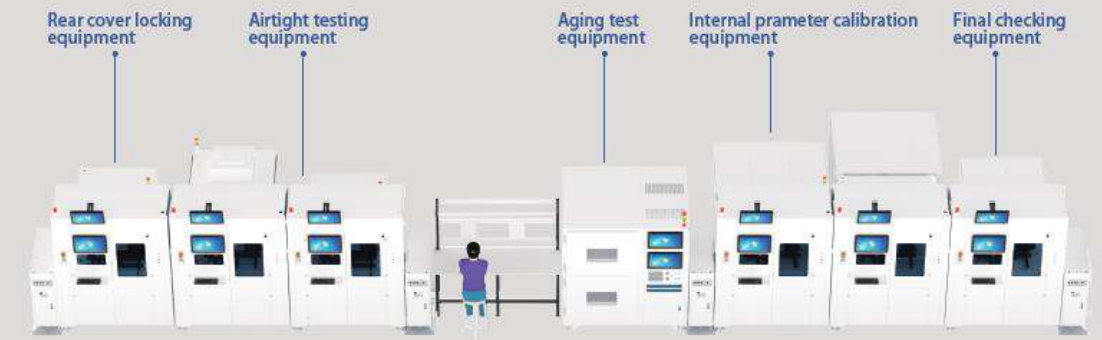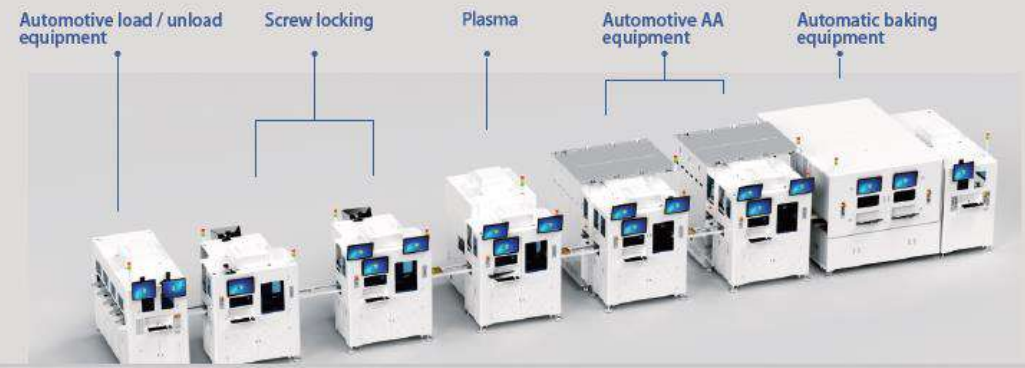
Loading Equipment -- XF Series

Achieving unmanned materials sorting and material binding.

Size	2300x1150x1900mm Excluding monitor & 3-color light
Function	To achieve multiple materials for mixing flow, automatic material release
Tray capacity	5 colums and each colum of 10 layers

Automatic loading / unloading equipment -- CALU Series

Achieve scanning bind + material flipping + tray stacking

Size	1500x1000x1900mm Excluding monitor & 3-color light
UPH	200 PCS/H
Flowing mode	Achieving carrier reflux + 2-way flow + 2 channel flow avoid traffic jam
Function	Achievin lens + PCB + base + rear case automatic loading / unloading

Automotive AA Equipment -- AX Series

Achieving aspect rate 4:3 or 16:9 switch, support glued wire checking

Size	1750x1914x2050mm Excluding monitor & 3-color light
UPH	120-150 PCS/H
FOV	65~ 220 °
Testing Item	OC, AA, Black & white field

Automatic AA equipment – AX series

Achieving aspect rate 4:3 or 16:9 switch, support glued wire checking

Size	1400x1700x1900mm Excluding monitor & 3-color light
UPH	120 PCS/H
FOV	Up to DFOV 220° 0.8F, compatible 4:3, 16:9, 1:1
Application	Glued wire checking + Plasma + COD + OC + POG + POD

Screw Locking Equipment -- ASS Series

Achieving automatic locking, screw feeding system

Size	1500x1200x1900mm Excluding monitor & 3-color light
UPH	2 type screw up to 200 PCS/H
Monitoring	Floating height + screwloose + torque + rotation angle + locking curve
Function	Achieving PCBA + front cover + PCBB + rear cover assembly

Rear cover locking equipment -- WXSF Series

Achieving module locking and support 2-two flowing

Size	1500x1200x1900mm Excluding monitor & 3-color light
UPH	200 PCS/H
Monitoring	Floating height + screwloose + torque + rotation angle + locking curve
Function	Rear cover module lcoking (with / without cable)

Automatic Curing Equipment -- GH Series

Automatic Uploading / Unloading,Curing Time Calculation, Controlling Human Induced Defects

Size	2000x1700x1900mm Excluding monitor & 3-color light
UPH	200 PCS/H
Curing Temperature	Ordinary ~ 150 °C
Temperature Tolerance	+/- 1 °C

Airtight Testing Equipment -- CQM Series

Achieving the leaking, positive & negative pressure automatic testing

Size	1100x750x1900mm Excluding monitor & 3-color light
Function	Achieving positive & negative pressure testing, compatible IP69, IP66
UPH	200 PCS/H
Testing Method	Pressure variance measured to settle the leaking problem

Achieving automatic pressure inspection, enhancing product reliability

Size	1760x1100x1900mm Excluding monitor & 3-color light
UPH	128 PCS/H
Working Environment	Ordinary - 150 °C, Accuracy +/- 1°C
Testing Items	Current / Frame Rate / Resolution

Internal Prameter Calibration Equipment -- NC Series

Achieving multiple module calibration and the distance can be adjustable according to actual need

Size	1800x2100x1800mm Excluding monitor & 3-color light
UPH	90 PCS/H
Supporting Module Resolution	0.3MP, 1MP, 2MP, 3MP, 5MP, 8MP, 12MP
Module Type	Hole module, MEI module, fish eye module, circular module

Final Checking Equipment -- CVT Series

Achieving aspect rate 4:3 or 16:9 switch

Size	1600x1530x1750mm Excluding monitor & 3-color light
UPH	100-150 PCS/H
FOV	0~ 220°
Testing Item	Electricity, resolution, gray scale, color, POG, POD

Vibration testing

ATE testing

Software testing

Automatic burning

Airtight testing

EOL testing

Pin testing

Multiple devices simultaneous testing and satisfy IPU multiple devices generality

Making individual rack according to area request
This testing group consisted of 7 individual equipment

Unloading area

EOL

ATE2+Buffer area

ATE1+Buffer area

Loading area

1st. Generation Chipset Testing Equipment-- ATE Series

Achieving multiple module calibration and distance can be adjustable according to actual request

Size	1180x1080x1800mm Excluding monitor & 3-color light
UPH	1200 PCS/H
Testing item size	2x2 - 12x12mm
Function	O/S, Switch On Testing, Sorting

Unload+EOL Area

ATE Testing

EOL + Buffer Area

EOL + Buffer Area

Loading Area

3rd. Generation Chipset Testing Equipment -- ATE Series	
Pick & Place accuracy up to 0.02mm, high efficiency, high stability	
Size	2450x1960x1880mm Excluding monitor & 3-color light
Function	Achieving size 2x2 - 8x8mm chipset testing 4 groups of suction nozzle simultaneous work
UPH	3600 PCS/H

Components Sorting Equipment -- FX Series

AOI Appearance Checking False Rate < 0.05%

Size	1180x1080x2165mm Excluding monitor & 3-color light
UPH	>/= 27 K/H
Testing item size	SMD3225 (Max), SMD1612 (Min)
Function	O/S, Insulation Resistance, 6-side Checking, Plating Tray

Memory Chipset Testing, Sorting Equipment -- SC Series

AOI, Switch On Testing, Sorting, Plating Tray

Size	1180x1080x1800mm Excluding monitor & 3-color light
UPH	1200 PCS/H
Testing item size	2x2 - 12x12mm
Function	O/S, Switch On Testing, Sorting

Components Taping Equipment -- FX Series

AOI Appearance Checking False Rate < 0.05%

Size	1200x950x2000mm Excluding monitor & 3-color light
Function	Electricity Testing, Marking, 6-side Checking, Taping
UPH	50 K/H (Max)
Testing Item	SOD, SOT, SOP, QFN, DFN, etc

Chipset 2-side AOI Appearance Checking Equipment -- AOI Series

Tray Loading, Good Ones Unloading & Positioning, Not Good Ones Picked Out, Comprehensive Compatibility

Size	1800x1800x1970mm Excluding monitor & 3-color light
Testing Item Size	Tray size compatible with 2", 3", 4" and can be customized, chipset size: 1.4x1.5mm (Min)
UPH	30 K/H (Max)
Function	Back tin sphere loss, front face scratch, dirty, chipping, crack etc. Tin sphere height testing (reserved)

SOT & SOD Taped AOI Testing Equipment -- TV Series

Tape Loading, NG Marking, software can find & fix the NG position

Size	1000x550x1700mm Excluding monitor & 3-color light
UPH	18000 -72000 PCS/H Subject to size, testing & time
Testing item size	Tray Diameter: 180 - 330mm, Tray Width: 8 - 44mm
Function	SOD & SOT silk printing, PAD dot, plastic part, pin and tape appearance checking

Smartphone Fingerprint Testing Equipment -- ZW Series

Optical Fingerprint MT1 & MT2 Automatic Testing Switch, One-Stop Testing Solution

Size	3410x1740x1900mm Excluding monitor & 3-color light
UPH	1200-1500 PCS/H
Loading Tray	Support width adjustment on unloading tray
Function	Optical Fingerprint, Traditional Fingerprint

Optical Distance Testing Equipment -- MMI Series

2-Station Device, Support SingleTesting Use

Size	600x500x650mm Excluding monitor & 3-color light
UPH	235PCS/H
Testing Item	Gravity, Gyroscope, OIS, Distance sensing without obstruction, Distance Sensing 5cm, Distance Sensing 3cm, Optical Sensing 0 Lux, Optical Sensing 500 Lux calibration

Smartphone Full Automatic OIS Testing Equipment -- OIS Series

Achieving Automatic Full Device USB Plug In / Out, Automatic Start & Testing

Size	1500x2500x1600mm Excluding monitor & 3-color light
UPH	100 PCS/H
Testing Item	Full device OIS calibration + testing
Structure Character	±2° 3 Hz - 8 Hz, ±3° 3 Hz - 8 Hz, ±4° 4 Hz - 7 Hz, ±8° 4 Hz

YUNGKU TECHNOLOGY

CCM AOI Appearance Testing Equipment -- COT Series

12 station layout, simultaneous testing with 7 of CCM module separately

Size	2300x1800x1950mm Excluding monitor & 3-color light
UPH	2500 PCS/H (Max)
Testing Item	Camera Module Appearance AOI (Auto Optics Checking), including camera voice coil motor 4 sides, opposite connector, lens barrel, FPC-reinforced panel, clear aperture
Structure Character	Comprehensive compatibility with various fixtures, testing with various camera modules

YUNGKU TECHNOLOGY

Full Smartphone 6-Station Electricity Testing Equipment -- ELT Series

One worker can proceed 6 group of testing, compact size, high efficiency

Size	800x1360x1620mm Excluding monitor & 3-color light
UPH	360-400 PCS/H
Testing Item	

CCM 8-Station Focusing Equipment -- FS Series

Simultaneous testing on 8-station CCM module

Size	1600x1350x1820mm Excluding monitor & 3-color light
UPH	600 PCS/H
Testing Item	Focusing, POG & POD, Dispense & UV Curing, SFR Checking, OTP Burning, OTP Checking
Testing Item	Good fixture design, can set up automatic testing fixture

CCM Automatic High Speed PDAF Testing Equipment -- FD Series

Support QR code scanning, Adjustable Rail Width

Size	2400x2850x1800mm Excluding monitor & 3-color light
UPH	1000-1400 PCS/H
Testing Item	OS Current Testing, Long/Short Focus, PDAF, OTP, POG, POD

Soft Tray & Hard Tray Fixer

Device fix these scattered materials onto the tray in order

Soft tray fixer

Soft tray fixer is applicable for vulnerable to damage materials and compatible with semi & full auto fixing function, semi-automatic tray fixer UPH is 2000 PCS/H

Hard tray fixer

Hard tray fixer is applicable for not easy damaged materials, UPH is 5000 PCS/H

THANKS