



Golden Bridge Electech Inc.

**Professional Cable &
Components Manufacturer**



Company Overview

Established	1976
Location (HQ)	Taipei, Taiwan
Capital	US\$39M (TWD1.17Billion)
Worldwide Employees	1,100 (R&D150+)
Chairman	Ms. Linda Lin
Function	Cable total solution provider
Major Business	Cable assembly/Raw cable ODM/OEM
Certificates	ISO 9001/ ISO 14001/ ISO 13485/ IATF 16949
Organisation Membership	HDMI, USB-IF, UL, CSA, TUV, JQA



Production



- **Dong Guan Factory:**
 - Area of 68,000m²
 - High vertical integration
 - More than 600 employees in total
 - Compound plastic design, raw cable extrusion, cable assembly, braiding, etc.



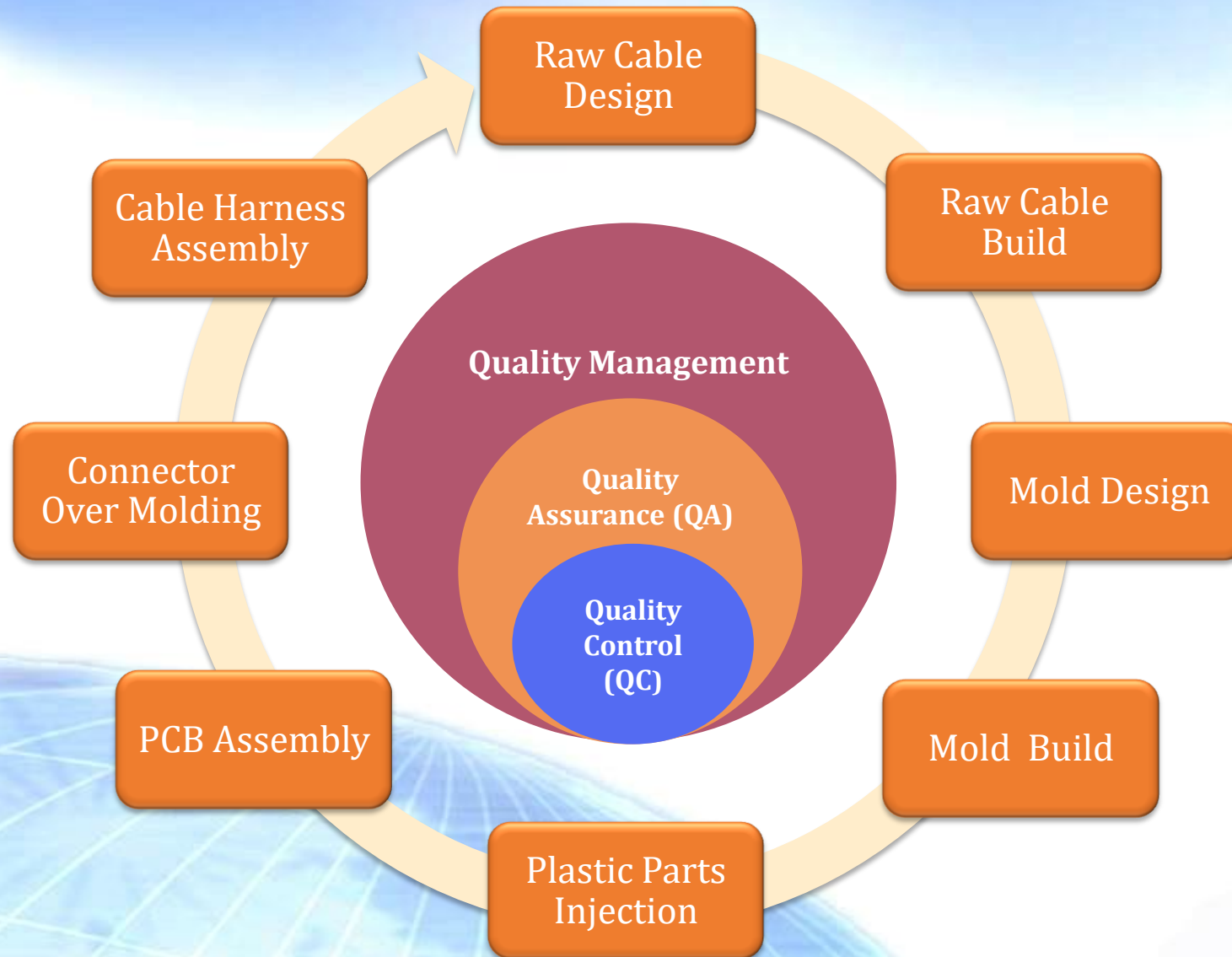
- **Kun Shan Factory:**
 - Area of 13,200m²
 - Total staff of over 300 employees
 - Two fully-automated LVDS cable assembly lines

Production

- **Malaysia Factory:**
 - Area of 31,123m²
 - specialised in cable assembly.
 - Total staff of over 100 employees



One Stop Service



Customized Cable & Cable Assemblies

- **Volume mix:**

Conveyor Line – Single item
High Quantity: 4K Pcs Per run



Cell Line - High Mix / Low Volume
As low as: 80 Pcs Per run



Product Overview – GBE Cables Application

Communication

- Two-Way Radios
- Antennae

Medical / Health Care

- Endoscopy Cables
- Ultrasound Probe Cables
- In Vitro Diagnostic Instruments
- Surgical Equipments
- Patient Monitoring
- Dental X Ray
- Lift Controls

Industrial IT & CE

- Servers
- POS
- IPC
- RF cables
- Display eDP
- Type C Interface Application
- Drones
- Robots
- M8/M12

Consumer Products

- Wire Harness
- USB 2.0/3.0 /3.1/3.2/4.0
- RGB Cables
- Thunderbolt
- Notebooks
- Game Machines

Automotive & Aviation

- Automotive Cables
- Diagnostic Cables
- Battery Box Peripheral Cables
- BSM



Communication for Two-Way Radios

- **Cable Assemblies:**

- Microphone cables
- Controller cables
- Program cables
- Speaker cables
- Data cables
- DC cables

- **Application:**

- Harsh Environment
- ATEX Standard
- High Temperature Resistant
- Waterproofing (IP8)
- Data communication
- GPS devices
- Radio telephones
- Audio/Video Equipment



Communication for Wireless IP

- RF cables
- Wireless IP
- RF Coaxial assemblies
- Antenna assemblies
 - 802.11 a/b/g/n
 - WiMAX
 - UWB



Medical Industry



Cables for Ultrasound Probe



Cables for Ultrasound Probe



Cables for Ultrasound Probe



Cables for Monitoring Sleeping Pulse



Cables for Dental X Ray



Ward Paging System Cables



Endoscopy Cables



ECG Signal Transmission Cables



Brainwave Signal Transmission Cables



Dual Tube Cables



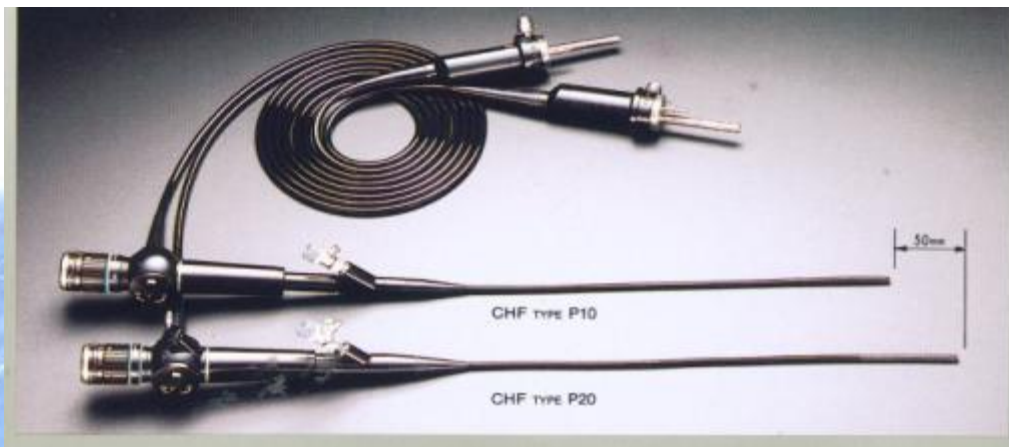
Hospital Beds Lift Control Cables



Electrosurgical Cables

Medical Industry

Endoscope



LVDS (Low Voltage Differential Signaling)

Application:

- Web CAM
- AHD Camera
- Surveillance
- Face Recognition
- License Plate Recognition



Drone& Robot

 GoldenBridge

• Industrial Cable

- Robot Cables
- Drone Cable
- Signal Control Cable



 **RHS**
Compliant

 **UL**
LISTED

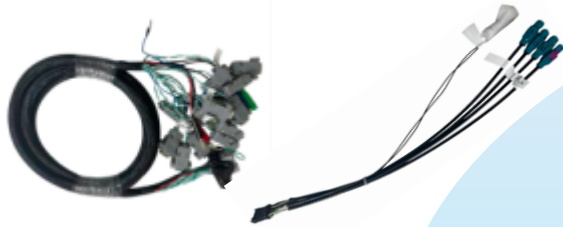
 **SGS**

Auto Electronics - Present

Functional Connection



Cables for testing Automotive Smart Cockpit



USB, HDMI and AUX
Application & Adapter Cables



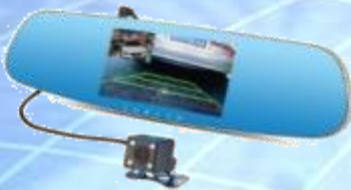
ADAS Cables with CAN Bus



Antenna Related



Rearview Related



Oxygen Sensor
Cables



Car Charger / CLA

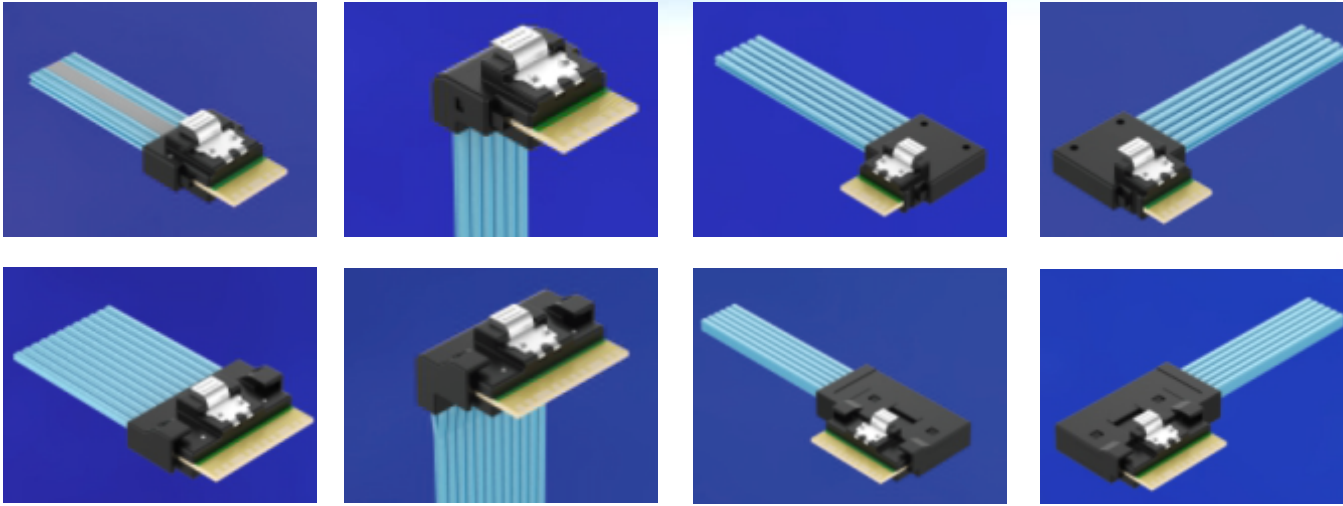


Air-conditioning Cables

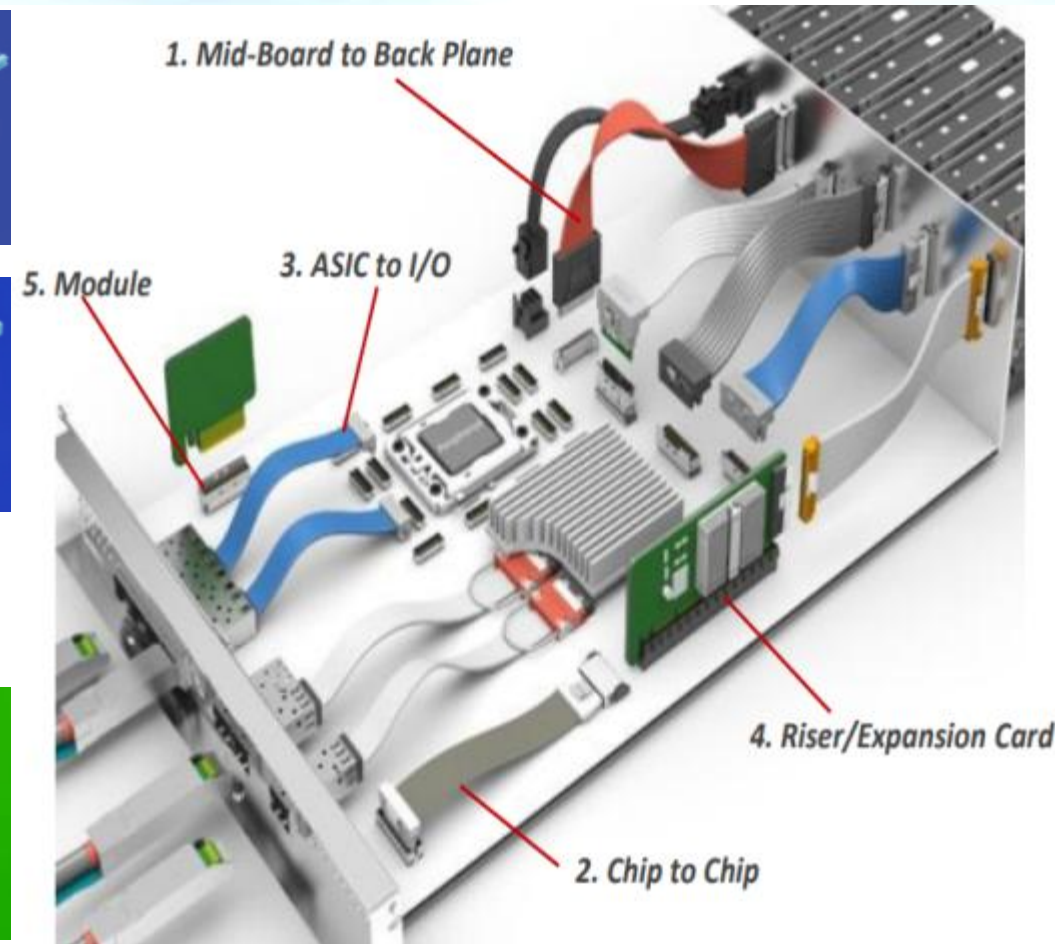
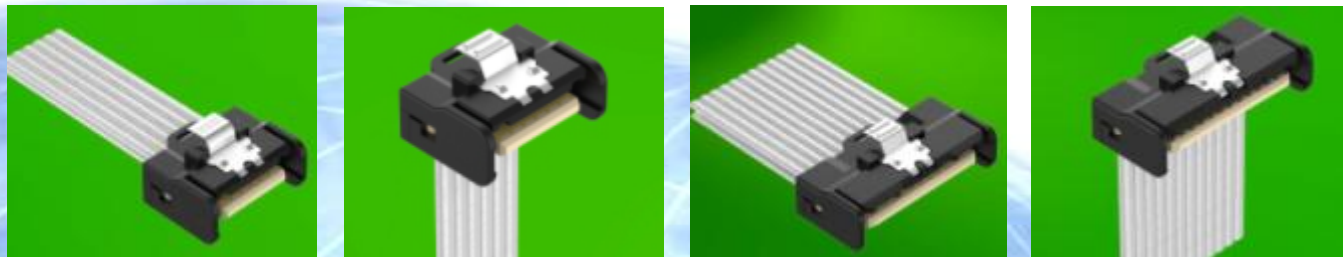


Server Cable System

SlimSAS 4x / 8x connector (Standard)



MCIO 4x / 8x connector (Standard)



SlimSAS & MCIO License Authorisation



August, 3, 2023

To whom it may concern:

This letter confirms that and Golden Bridge Electech Inc. (GBE), has entered into a non-exclusive second source agreement with Amphenol Corporation ("Amphenol"). The license agreement provides Golden Bridge Electech Inc. (GBE) the right to use Amphenol's intellectual property in conjunction with connectors and cable assemblies marketed by Amphenol under the Slim SAS[®] trade name.

As such Golden Bridge Electech Inc. is authorized to make, use, sell, offer for sale and otherwise dispose of SlimSAS[®] connectors and cable assemblies. If there are any questions regarding the above, please feel free to contact Amphenol as follows:

Danny Morlion
Chief Technology
Officer Amphenol FCI
Asia Pte Ltd
159 Kampong Ampat
KA Place
#04-01/04, Singapore 368328



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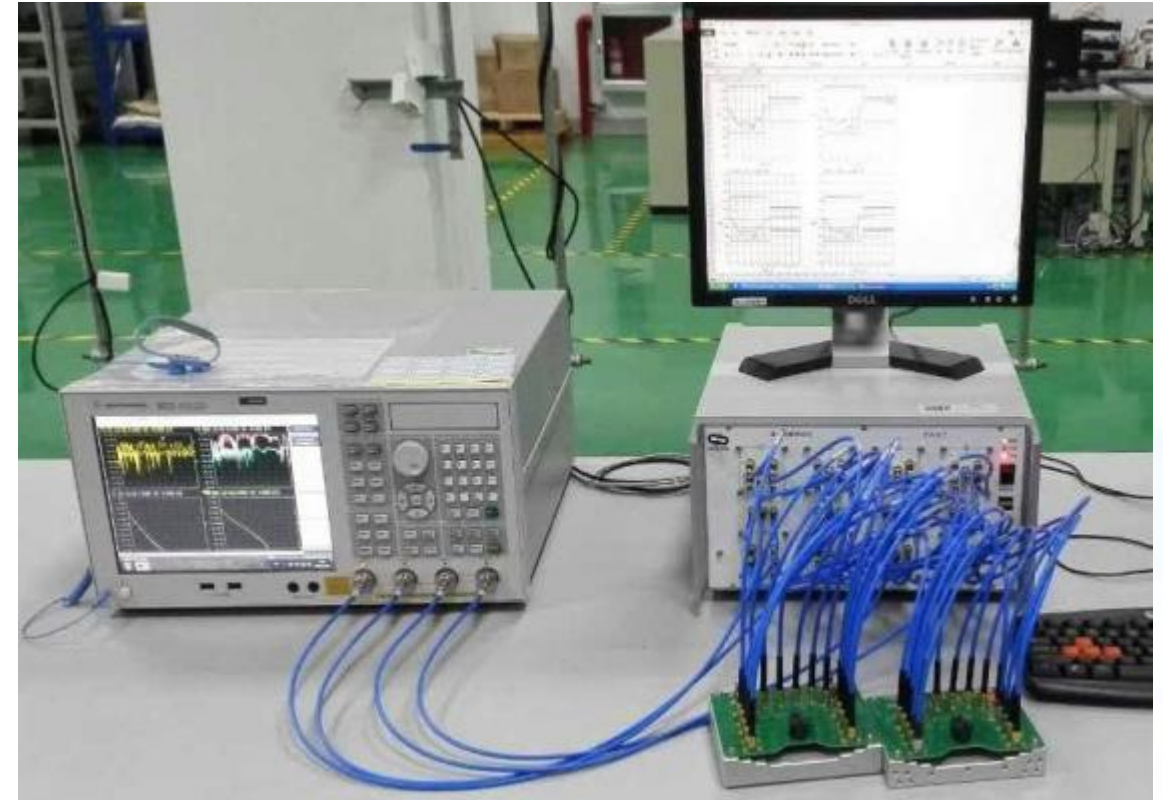
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Danny Morlion
Chief Technology Officer
Amphenol FCI Asia Pte Ltd
159 Kampong Ampat KA Place
#04-01/04, Singapore 368328



High Speed Cables Function Tester

- 16 differential pair Automatic Tester for S-Parameter: 100% of cables testing when manufacturing
- Record all electrical data per serial number
- Additional VNA/PNA s-parameter for defect screening
- TDR testing for detailed defect screening
- Oscilloscope testing
- BER (Bit Error Rate) testing



Certifications

- Dong Guan Factory:



Medical
Application



Cable
Assembly



Automotive
Industry



Cable
Accessories



Health
And Safety



Environmental
Quality
Assurance



Green
Management



Laboratory
Certification



Canadian
Standards Association



UL
Safety Approval

Certifications

- **Kun Shan Factory:**



ISO 9001:2015

Cable
Assembly



ISO 14001:2015

Cable
Accessories



UL
Safety Approval

- **Malaysia Factory:**



Cable
Assembly

CNAS Certified Lab

- For RoHS Tests

Also available:

- For High Frequency Tests
- For Reliability Tests



For RoHS Tests

- **ICP-OES** (Inductively Coupled Plasma - Optical Emission Spectrometers.)
Test for: Pb; Cd; Hg; Cr; ... etc.
- **GC/MS**
(Gas Chromatography – Mass Spectrometry)
Test for: PBB ; PBDE; PAEs PCN; PCT ... etc
- **UV Test for: Cr6+**
- **Microwave sample preparation system**
- **Fluorescent X-ray Analyser**
Test for: Pb; Cd; Hg; Cr; Br.....etc.

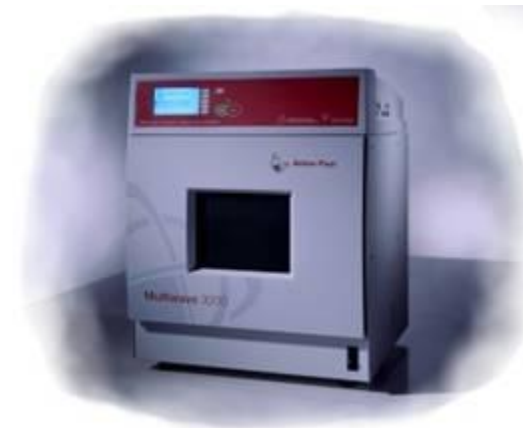
ICP-OES



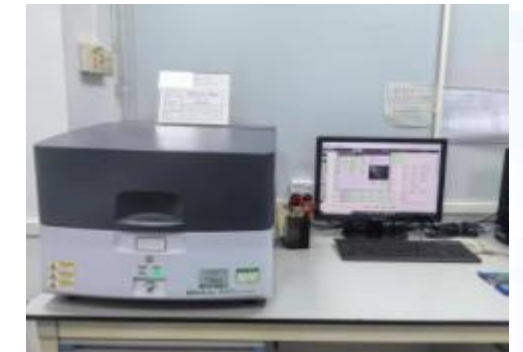
GC/MS



UV Lambda



Microwave sample preparation system



Fluorescent X-ray Analyser

For High Frequency Tests

- **(ENA) ENA Series Network Analyser – 300KHz-20GHz**

TDR

Test for: IMP, Delay, Skew, Eye Pattern, Rise-Time

NA

Test for: IMP, Attenuation, Delay, Crosstalk, Phase, VSWR

- **(VNA) Vector Network Analyser – 100KHz-20GHz**
Test for: Attenuation, Phase, VSWR

ENA



VNA



For Reliability Tests

- **Temperature & Humidity Tester**
Test for: Temperature & Humidity test $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$
- **Thermal Shock Tester**
Test for: High /Low Temperature test $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$
- **Insertion and Extraction Force Tester**
Test for: Connector Insertion and Extraction Force
- **MFI (Melt Flow Index) Melt Plastometer**
Testing for Flow Rates of Thermoplastics

Temperature &
Humidity Tester

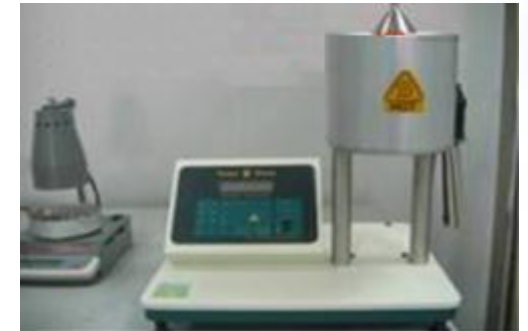


Thermal Shock
Tester



Insert / Extract
Force Tester

MFI Melt Plastometer



For Reliability Tests

- **Flexing Tester**

Test for: Cable & Cable Assemblies (SR)
Flexing Test

- **Salt Spray Tester**

Test for: Metal Salt Spray Testing

- **X-ray Analyser**

Test for: Measure Plating Thickness
(Au; Ag; Ni; Cu etc...)

Salt Spray Tester



Flexing Tester



X-Ray Analyser



Other Testing Machines

Testing equipment for UL requirements

Deformation
Tester

Cold-Bend
Chamber

Oil Resistance
Tester

Buffing Machine

Surface Marking
Tester



Flame
Tester



Aging
Oven



Semi-automatic Production Equipments



**Automatic
Crimping Machine**



Gluing Machine



**Semi-Auto
Crimping Machine**



Laser Cutting Machine



Welding Machine

Automatic LVDS Cable Assembly Line

Two Auto-Lines with Total Capacity of: 200Kpcs/Month



SMT Line



- **Capability:**
 - Single Sided / Double Sided SMT
 - Minimum Component Size: 0201
- **Capacity:**
 - Depending on the complexity of Design
 - Roughly 13000 CPH



Tooling Measurement

In-house tooling engineers

Capable of handling new tooling development and innovative design concept with full range of ODM/OEM products and services.

Tooling Measurement center: 3D, 2.5D, Height Gauge...



3D Tooling Design Software

Capable in handling various types of files by using following software:

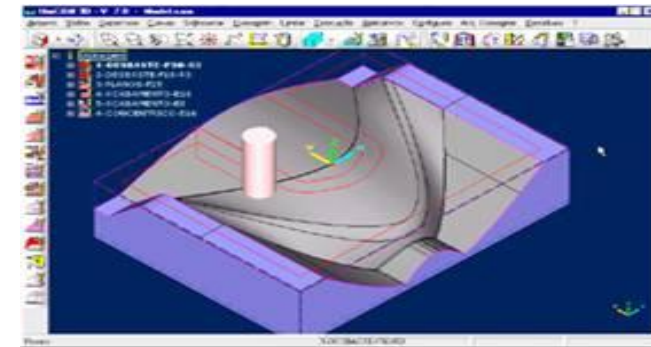
- 3D software : 2D/3D CAD, SOLIDWORKS
- CNC software : UG , CIMATRON CAM



2D/3D CAD



SOLIDWORKS



UG

Tooling and Moulding

Cable Assembly Over Moulding Machines



Q & A



金橋科技
GoldenBridge