SOE

淳安電子股份有限公司

SHUN ON ELECTRONIC CO., LTD

To Satisfy Customer's Demand Is Our Objective From The Beginning To The End!

Leader In World Market Share

Class 10,000 Clean Room

SMT On Polydome /Membrane

藍圖

一流的生產工藝技术加上一流的銷售服務從而邁進世界一流的薄膜開關生產商的行列。

使命

以尖端的科技、一流的管理規范和高效率的合作團隊從而成為電子元件設計和生產的先鋒。

品質政策

客户百分百滿意 - 在努力實施日常的銷售、生產管理和戰略策划的同時、我們要對瞬息萬變的科技和市場環境保持一定的靈活性。

品質、持續改善和客户滿意度是公司全體上下每個員工和管理者的職責。

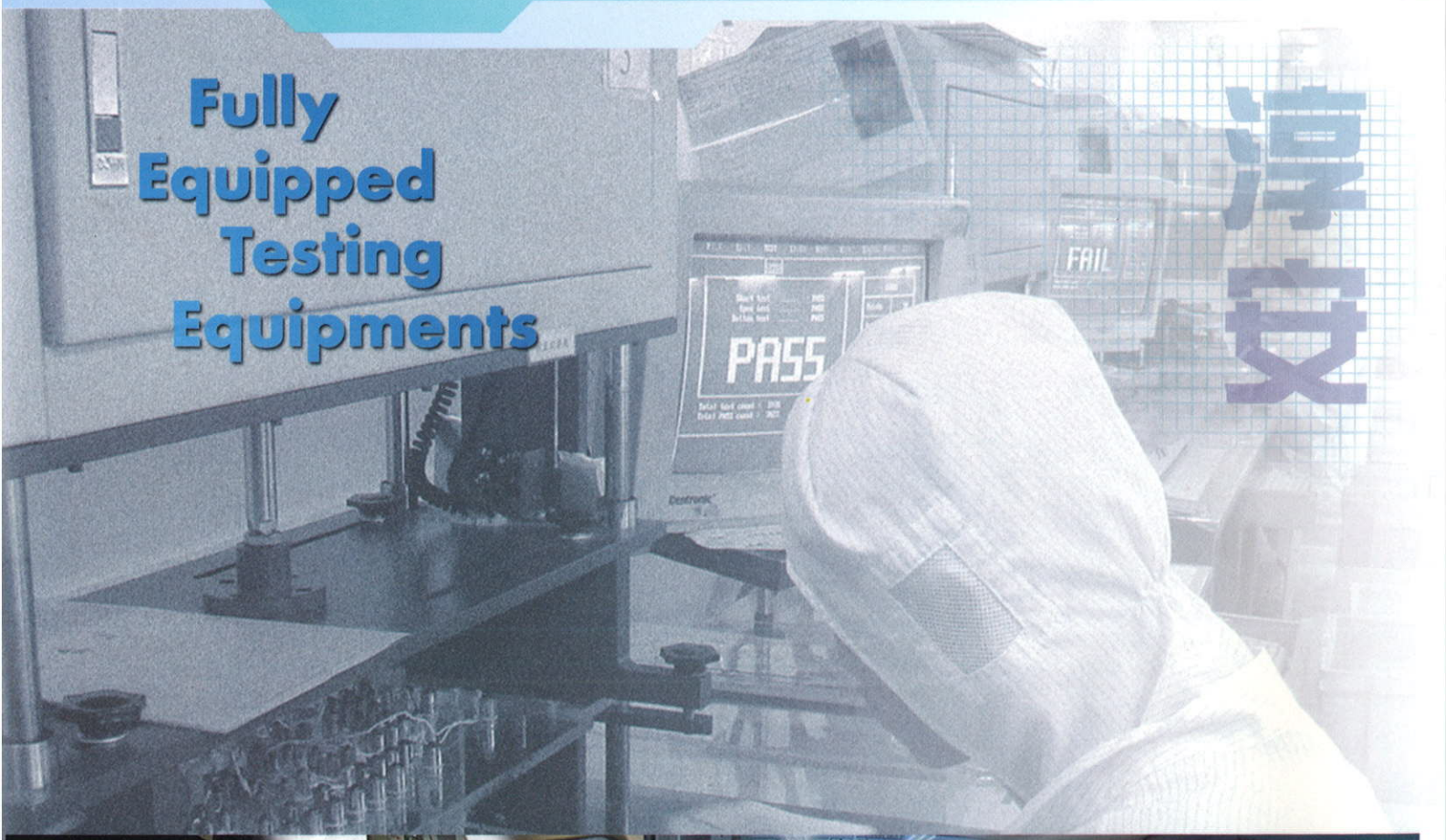
滿足客户的要求是我們
自始至終的目標！

邱森盈

In-house Tooling Capability

Rapid Prototype Sample Capability

Short Production Lead Time



Fully Equipped Testing Equipments

淳安

CORPORATE PROFILE

Founded in 1996, Shun On Electronic Co., Ltd is a membrane switch manufacturing company offering individual component, or fully integrated assemblies.

Through integrated design, prototyping and test, manufacturing, packaging, systems assembly and customer services, we are able to offer quality and competitive products to our customers worldwide.

We are increasingly applying our aggregated skills in technology development and business management to create heightened levels of customer responsiveness.

Milestones in Brief

November	1996	Established Shun On Electronic Co., Ltd - Taiwan
February	1996	Established Shi Jing factory in Fu Cheng, Dong Guan - China
November	1996	ISO 9002 certification of Shi Jing factory
	1996	Desktop keyboard output up to 10,000,000 sets / year
August	1997	Flexible keyboard circuit output up to 15,000,000 sets / year
	1998	Established Dong Guan Shun On Electronic Co., Ltd
	1998	Cellular Phone Polydome output up of 6,000,000 sets / year; Flexible keyboard circuit output of 20,000,000 sets / year
	1998	Turnover US$10 Million
	1999	Flexible keyboard circuit output of 25,000,000 sets / year
	1999	Turnover US$15 Million
February	2000	Established Yong Ju Factory in Qing Xi, Dong Guan - China
June	2000	Investment in Flexible Printed Circuit factory in Taiwan; Capture 25% of worldwide share in PC keyboard membrane switch
July	2000	ISO 9002 certification of Qing Xi factory
August	2000	Flexible keyboard circuit output of 30,000,000 sets / year; Cellular Phone Polydome output up of 25,000,000 sets / year
	2000	Turnover US$25 Million
August	2001	Centralize core product manufacturing facilities in Qing Xi, Dong Guan - China
December	2002	Investment in Jia Xing Factory in Shanghai Manufacturing of core products and RF Transmitter & Receiver for wireless applications

SOE 公司概況

淳安電子股份有限公司、成立于1996年、專門從事薄膜開關的生產、提供單個零件和集成組裝。

通過設計、打樣、測試、加工、包裝、系統組裝和客户服務、我們能為世界各地的客户提供品質優良、競爭力強的產品。我們正不斷地把綜合技术應用于科技的開發和經營管理中、從而培養客户靈敏度并把它提高一個新水平。

重要紀事

1996年1月	成立淳安電子股份有限公司－台灣
1996年2月	成立東莞附城石井廠－中國大陸
1996年11月	石井廠通過 ISO 9002 認証 桌面鍵盤類出貨量達10,000,000套/年
1997年8月	Keyboard 軟性電路板出貨量15,000,000套/年
1998年	東莞淳安電子服份有限公司成立、Keyboard 軟性電路板出貨量達20,000,000 、手機 Polydome 產品出貨量達6,000,000 、營業額 USD1,000萬
1999年	Keyboard 軟性電路板出貨量達25,000,000 、手機 Polydome產品出貨量達15,000,000 、營業額 USD1,500萬
2000年2月	東莞清溪永鉅電子廠成立－中國大陸
2000年6月	投資 Flexible Printing Circuit factory－台灣耀郡、Keyboard 薄膜開關產量佔世界總量的25%
2000年7月	清溪廠通過 ISO 9002認証
2000年8月	Keyboard 軟性電路板出貨量超過 30,000,000套/年手機 Polydome 產品出貨量達
2000年	25,000,000套/年營業額達USD2,500萬
2001年8月	東莞清溪廠成為主導產品生產設備的核心基地－中國大陸
2002年8月	投資上海廠生產 Flexible Printing Circuit
2002年12月	投資嘉興廠生產 Notebook 軟體電路板及 RF無線模組

Vision

To be a world class manufacturer of membrane switches through commitment in our business and processes.

Mission

To excel in the design and manufacturing of electronic component through leading-edge technologies, world-class practices and effective teamwork.

Quality Policy

Total Customer Satisfaction: - we are committed to day-to-day management of sales, manufacturing and strategic planning, while remaining flexible to every changing technology and market condition.

Quality, continual improvement and customer satisfaction are the personal responsibility of each employee.

SOE Company in Brief

Established on November 1996
Capital Investmet : US$8,000,000
President : Mr. Chiu Sen Ying
Headquarter : Taipei, Taiwan

Taipei
8F-5 • No. 504 Yuan Shan Road
Chung He City
Taipei, Taiwan
Tel: +886-2-22287525
Fax: +886-2-22287523
Email: sales@soe-ele.com.tw

China, Qing Xi
Jin Long Industrial Zone
San Zhong Administrative Zone
Qing Xi Town Dong Guan City
Guang Dong Province, China
Tel: +86-769-7317940 / +86-769-7317941
Fax: +86-769-7317942
Email: sales@soe-ele.com.cn

China, Jia Xing
Jia Xing Shunon Electronics Technology Co., Ltd
No 1 Electronic Industrial Park
Jia Xing Economic Development Zone
China
Email: sales@soe-ele.com.cn

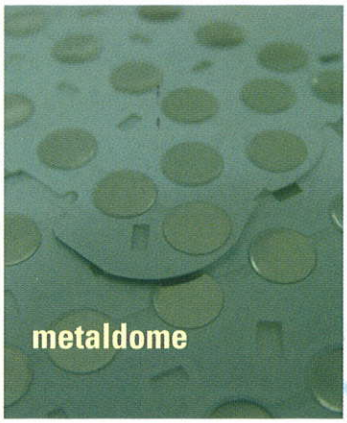
總公司
台北縣中和市
員山路 504 號 8 樓之 5
電話： +886-2-22287525
傳真： +886-2-22287523
Email: sales@soe-ele.com.tw

中國大陸清溪廠
廣東省東莞市清溪鎮三中管理區金龍工業區
電話： +86-769-7317940
+86-769-7317941
傳真： +86-769-7317942
Email: sales@soe-ele.com.cn

中國大陸嘉興廠
嘉興淳祥電子科技有限公司
嘉興市經濟開發區
昌盛路電子園區 1 號廠房
Email: sales@soe-ele.com.cn

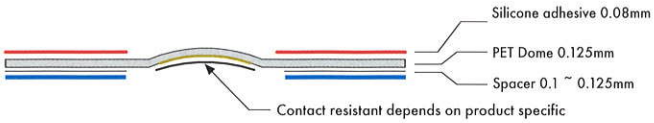
PRODUCT OVERVIEW

SOE
淳安電子股份有限公司
SHUN ON ELECTRONIC CO., LTD



DESIGN GUIDE – Polydome

1 Basic Polydome configuration



Polydome offers tactile feel with relative short actuation. Polydome forms the basic platform for Front Panel and Polyester Circuitry products.

Applications

Telecommunication industry

- Polydome integrated with EL and LEDs, the unit will be assembled onto PCB or Silicone rubber keymat.

Audio and Visual Products

- High end remote controls for Audio and Visual Products with contact made by plastic actuators or rubber keymats.

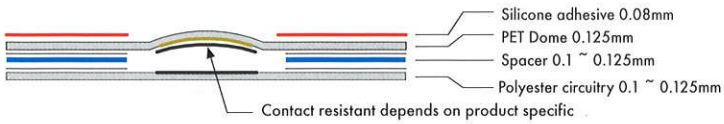
Consumer Electronics and Appliances

- Together with Graphic Overlay, polydome forms many possibilities to be used in these areas of application.

Products often found with Polydome applications are :

• Rice Cooker • Washing Machine • Coffee Maker • Vacuum Cleaner
• Vacuum Thermal Flask • Microwave Oven • Compact Remote Control

2 Polydome with Polyester Circuitry



應用范圍

通訊工業

Polydome可以用相對短的行程而產生柔順的 段落感。
Polydome是面板和聚酯線路產品的核心部分。

聲頻和視頻產品
聲頻和視頻產品的高端遥控，以塑膠接觸頭
或硅橡膠鍵為接觸媒介。

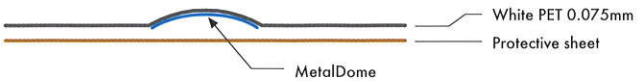
電子電器儀表
有了一層覆蓋的線路圖紋使得 **Polydome** 在
廣泛的應用領域中成為可能。

Polydome 廣泛應用于下列產品中:

- 電飯煲 • 洗衣機 • 吸塵器
- 咖啡機 • 熱水瓶 • 微波爐 • 小型遥控器等

DESIGN GUIDE – Metaldome

1 Basic Metaldome on PCB



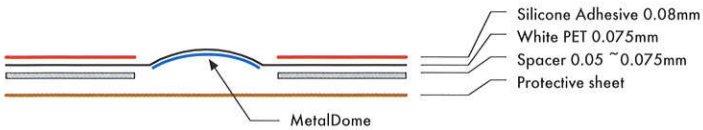
Metaldome achieve greater tactile in much shorter actuation than polydome. Metaldome array is used extensively in telecommunication products as it offer : –

• slim in design • light weight • short actuation with excellent tactile
• operating at higher temperature 85°C • excellent mechanical life

Metaldome array can be mounted on

- FPC (Flexible Printed circuit) as a module and integrated with other interface components such as LEDs, LCD, EL and connecters.
- PCB (Printed Circuit Board) as an array held by PET retainer
- Front panel as an integrated assembly

2 Basic Metaldome on Silicone Rubber Keypad



Metaldome 比 **Polydome** 以更短的行程而產生
明顯的段落感。

Metaldome 系列因具有下列優點而廣泛應用于通訊產品中:

- 小巧 • 輕薄 • 行程短 • 良好的機械壽命
- 可在高達 **85** 度的溫度環境下操作

Metaldome 系列可裝配于:

- **FPC** (軟性印刷電路)，作為一個模塊并與其
  它的界面元件如 **LEDs, LCD, EL** 和連接器等相連接。
- **PCB (Printed Circuit Board)**
- 面板，用作一個集成裝置

PRODUCT OVERVIEW

SOE
淳安電子股份有限公司
SHUN ON ELECTRONIC CO., LTD

Front panel finds application in many areas such as :

- Consumer electronics
- Telecommunication products
- Measuring equipments
- Audio and visual products
- Home appliances
- Medical products
- Automotive market
- Computer peripherals

Front panel integrated design offers –

- Polydome or metaldome switch integration with tactile response the customer demands without additional discrete switch assembly.
- Compact design that is both functional and aesthetically appealing to the end product user, reducing in packaging cost.
- Proven performance in the harsh environment.
- Easy assembly to plastics.
- Ability to integrate with multiple interfaces such as Crimp / ZIF or other mechanical connectors, LEDs, LED displays and LCD displays.

面板廣泛應用于如下領域：

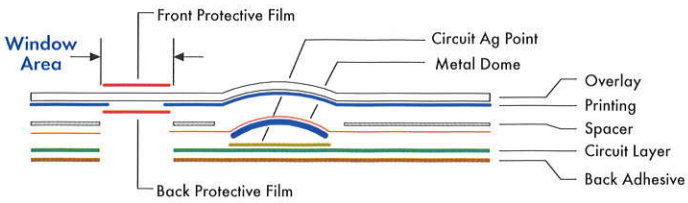
- 電子產品
- 通訊產品
- 測試儀器
- 聲視頻產品
- 家用電器
- 醫療設備產品
- 自動機械產品
- 電腦周邊產品

面板集成設計優點：

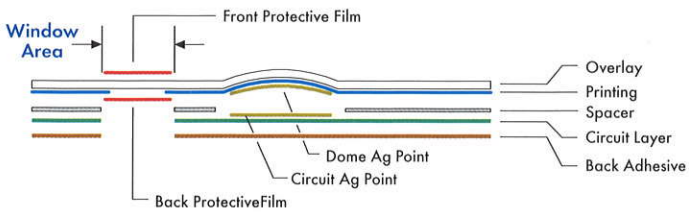
- 與普通的開關相比，Polydome 或 Metaldome 開關可以滿足客户所要求的段落感，而無需額外的開關組裝（如開關 SMT 到 PCB）
- 因其設計小巧、用途廣泛、美觀大方而吸引了眾多終端用户，大大降低了包裝成本。
- 具有惡劣環境的防護性能。
- 易于塑膠裝配。
- 能夠與多種界面如 Crimp/ZIF 或其它機械連接器，LEDs，LED 顯示屏和 LCD 顯示屏相連接。

DESIGN GUIDE – Front Panel

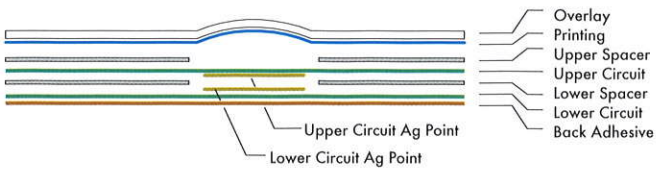
1



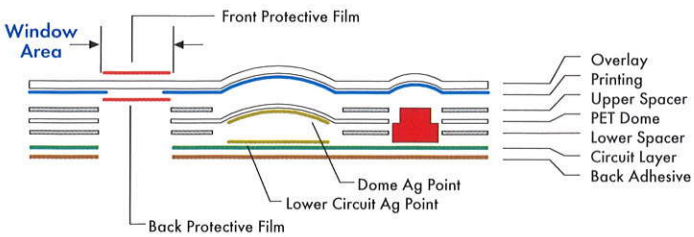
2



3



4



PRODUCT OVERVIEW

SOE
淳安電子股份有限公司
SHUN ON ELECTRONIC CO., LTD

KEYBOARD MEMBRANE
APPLICATION
DESIGN GUIDE

These are used in desktop computer keyboards. Various types of configuration are available to meet your mechanical and electrical needs.

Multi-layer designs eliminate a separate board and connector, reducing weight and profile when compared to rigid board alternatives.

UV separated design eliminates need for PET spacer, reducing cost and packaging height and weight.

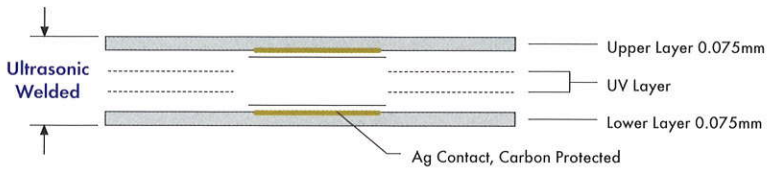
上圖所示應用于桌面電腦鍵盤類產品。

不同種類的結構可以滿足客户的各類機械和電子要求。多層設計無需 PCB 和連接器，因此減輕了重量和體積。

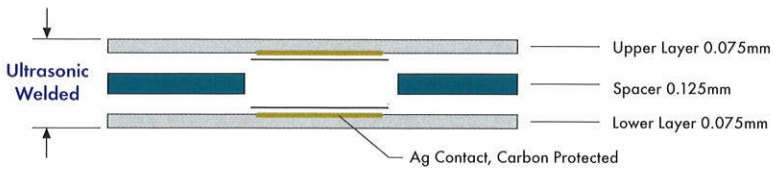
UV 的隔離設計無需 PET 隔片，降低了成本，減少了包裝的高度和重量。

DESIGN GUIDE

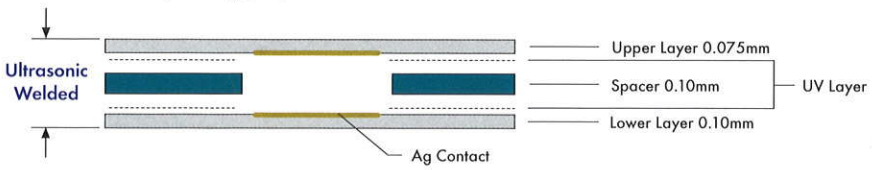
1 Keyboard Membrane - 2 Layers Type / UV Separated 鍵盤薄膜 — 2片式/UV絶緣



2 Keyboard Membrane - 3 Layers Type 鍵盤薄膜 — 3片式



3 Keyboard Membrane - 3 Layers Type / UV Protected 鍵盤薄膜 — 3片式/UV保護



PRODUCT OVERVIEW

SOE
淳安電子股份有限公司
SHUN ON ELECTRONIC CO., LTD

NoteBook membrane is very much similar to Keyboard membrane but with added jumper capability and water resistant protection.

Various design configurations are capable to meet your mechanical and electrical needs. Thickness of the rubber seal and spacer will cause differences in the actuation force on the membrane switch.

SOE design engineers work closely with you to meet each circuit assembly to your product specifications.

NoteBook 薄膜與 Keyboard 薄膜非常類似，只是N/B具有跳線能力和防水性能。

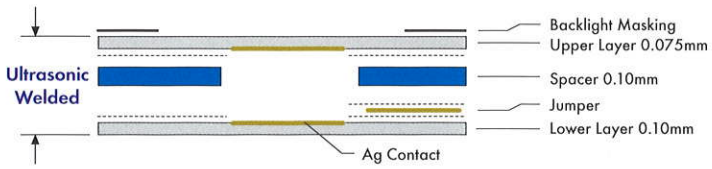
多種設計能夠滿足客户的各類機械和電子要求。

防水膠和隔片的厚度會影響薄膜開關的彈力。

SOE的設計工程師會與客户保持密切的合作，從而使每個線路元件的設計都能滿足客户產品的規格要求。

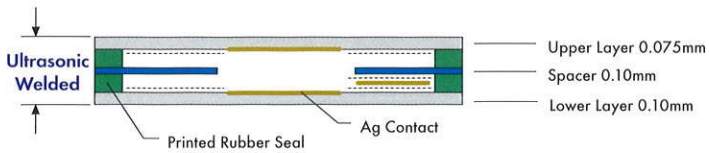
DESIGN GUIDE

1 NoteBook Membrane – UV Protected / Jumper　NoteBook 薄膜 — UV 保護 / 跳線



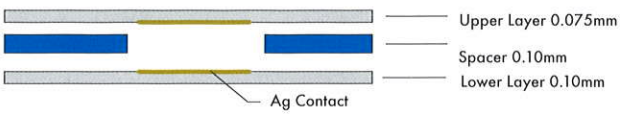
available in 3 layers folded

2 NoteBook Membrane – UV Protected / Water Resistant / Jumper　NoteBook 薄膜 — UV 保護防水 / 跳線



available in 2 layers folder / 3 layers folded type / 3 layers stacked

3 NoteBook Membrane – 3 Layers Folded Type　NoteBook 薄膜 — 3 片式



SOE
淳安電子股份有限公司
SHUN ON ELECTRONIC CO., LTD

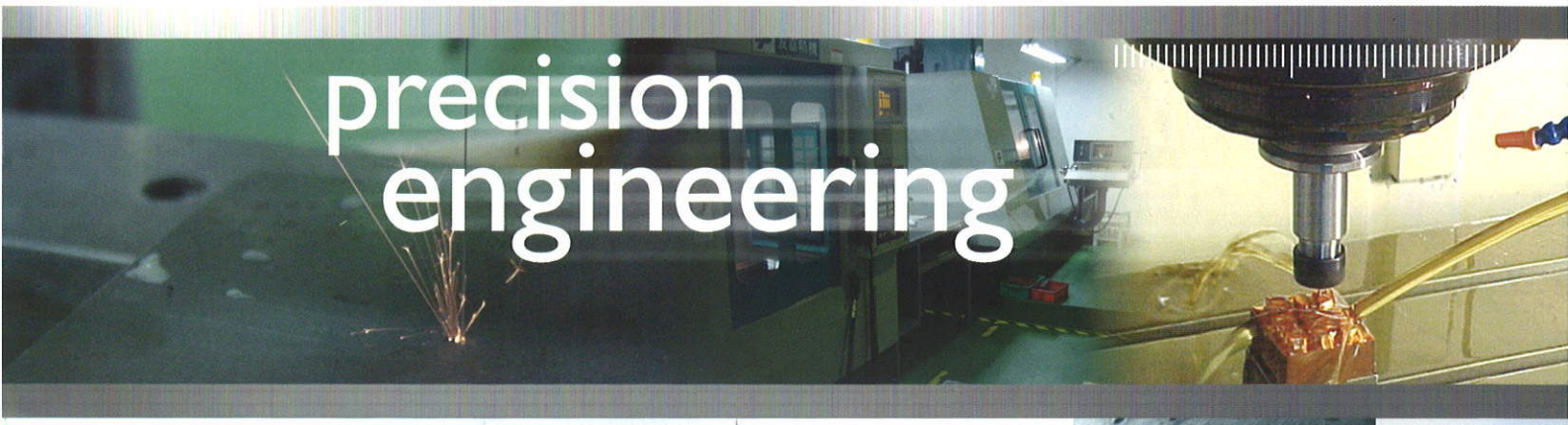
fully equipped testing equipments

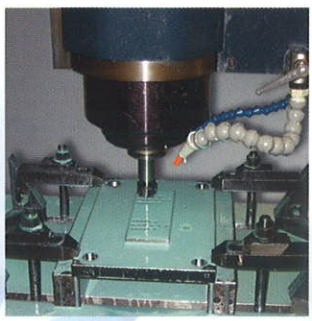
consistant Quality consistant Assurance

Equipments

- UV Power Tester 1
- Colour - Distinction Meter 1
- Dust Level Test Meter 1
- Resistance Meter 1
- Open / Close Circuit Tester 1
- 2D Measurement Equipment 1
- Force Tester 2
- Microscope 2
- Ink Thickness Tester 2
- Life Tester 2
- Insulation Test Meter 3
- Ink Viscosity Meter 4
- Temperature & Humidity Chamber 4
- ATE Tester 20

SOE
淳安電子股份有限公司
SHUN ON ELECTRONIC CO., LTD





building Tools building Confidence