



鑄毅科技

**Zhuyi Technology**

<https://zhuyitw.com/>

# About Zhuyi Technology

## 關於鑄毅科技

鑄毅科技專注於為世界各地的客戶提供服務，擁有超過30年的半導體製品生產保護經驗和強大的開發團隊。我們可以根據客製化需求，即時開發出各種高品質的塑膠製品，快速回應客戶。我們的生產線涵蓋了多種機型，並生產各種半導體包材、醫療器材、OEM/ODM/OBM塑膠製品。鑄毅科技提供一站式的作業流程，從設計、開模、注塑與運送，都由我們專業的團隊負責，為您呈現完美的產品與服務。



### 為世界各地

客戶提供服務

Services  
around the world



### 強力開發團隊

完成不同需求

Develop  
customized products



### 品管嚴謹

100%顧客滿意度

Deliver  
100% satisfaction



ZhuYi Technology's product lines cover every field of IC peripheral packaging. We understand customers' need and market trends. We have more than one thousand products in over thirty series. Various customized product specifications include: wafer frame, wafer storage boxes, wafer cassette, wafer ring, wafer extended ring, chip tray, Tyvek separated paper, etc. ZhuYi Technology understands your business, your needs and your company's goals. Our team will partner with you to make sure we deliver 100% satisfaction.



*Protect your wafers with our innovative packaging solutions*

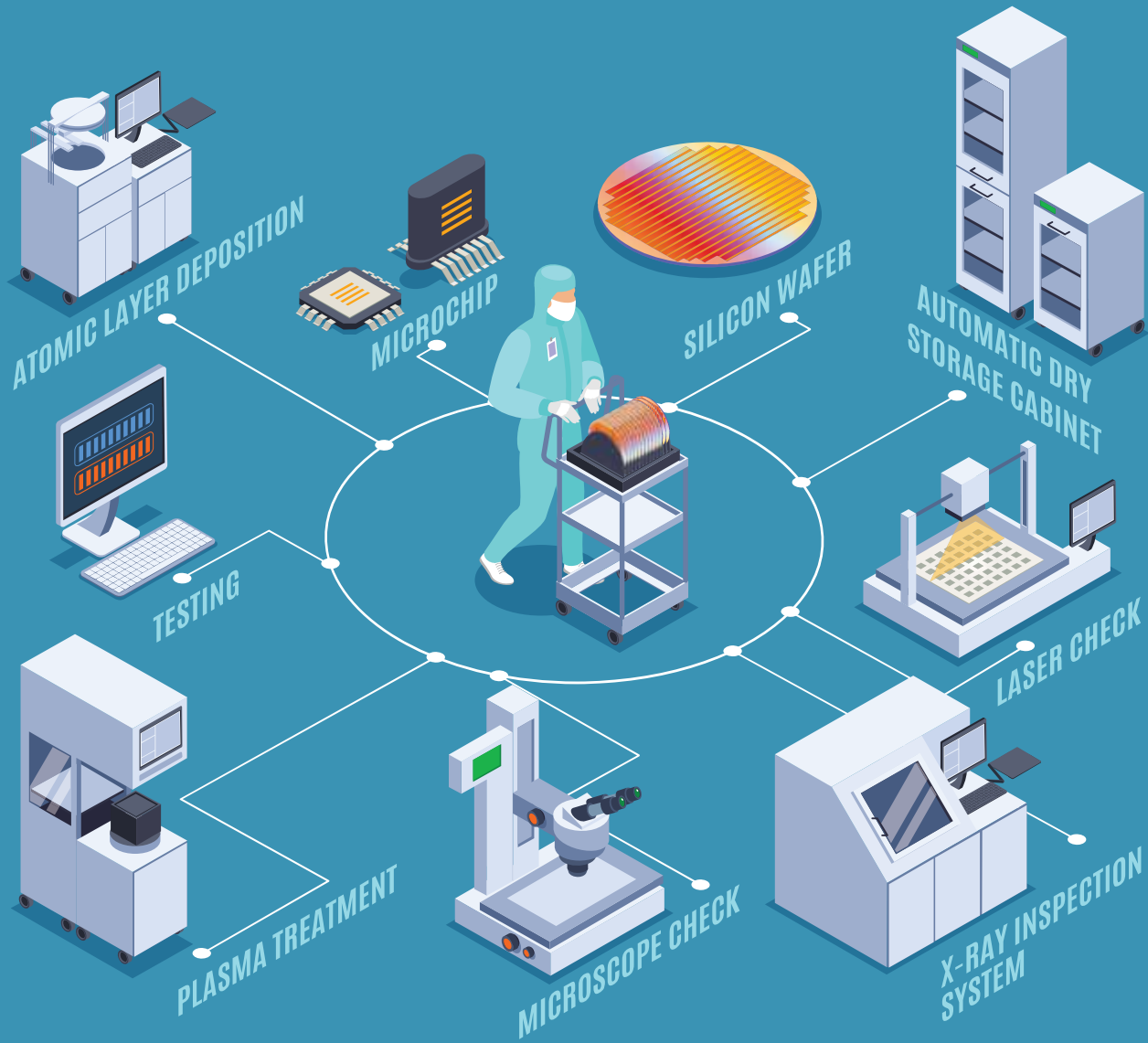
產品系列

# Product Series



# SEMICONDUCTOR PRODUCTION

flowchart



# SAFE GUARD

讓您的晶圓完好無暇

# Protection Never Compromised

Innovative Mastery: Commitment and Expertise in Services

## Wafer Frame Box

### 晶舟盒

隔離保護晶圓，降低汙染，不同材質使用抗靜電、輕量化設計，結構強化有效增加產品壽命。

Wafer Frame Box-Isolation to protect wafer. Anti-static material, light weight, structure strengthened design can increase longevity of product effectively.

<b>Material</b>	PP, Customized (Anti-Static)
<b>Color</b>	Original (Transparent) Black (Anti-Static) Customized (Anti-Static)
<b>Size</b>	6" - 25slot 8" - 25slot 12"- 13slot



Stackable



## Wafer Stack Box

### 晶圓堆疊盒

抗靜電設計，有效的安全保護·可堆疊

Design with ESD(Anti-static), Horizontal placement and stackable

<b>Material</b>	PP	<b>Size</b>	6", 8", 12"
<b>Color</b>	Black (Anti-Static)		

## Metal Frame Cassette

### 晶圓框架提籃

隔離保護乘載固定晶圓的框架，用於各製程機台傳送儲存

It protects wafer frame and avoid collision. Used for transferring wafer between stations

<b>Material</b>	Metal	<b>Size</b>	6" - 25 slot 8" - 25 slot 12" - 25 slot
<b>Color</b>	Original		



## Wafer Coin Box

# 晶圓盒

有效保護內部的晶圓免受外部碰撞等潛在危害

The wafer coin box offers a secure and safeguarding enclosure for delicate wafers.

<b>Material</b>	PP, Customized	
<b>Color</b>	Original(Transparent), Customized	
<b>Type: Lock</b>	4"x1.5"(H) 6"x2"(H) 6"x3"(H) 8"x0.9"(H) 8"x2"(H)	<b>Type: Twist</b> 6"x1.5"(H) 6"x3"(H) 8"x3"(H) 12"x2.0"(H)
<b>Size</b>		



4-piece

## 4-piece Coin Box

# 四片式晶圓盒

水平放置多片晶圓，保護晶圓避免碰撞

The 4-piece wafer coin box employs tech foam cushioning to protect wafers from collisions, with separators for secure storage.

<b>Material</b>	PP, Customized
<b>Color</b>	Original(Transparent), Black, Customized
<b>Size</b>	6", 8"

## Wafer Shipping Box

# 晶圓傳輸盒/出貨盒

晶圓傳輸盒用於承載從晶柱切下的空白晶圓片，安全運輸至下端晶圓廠，方便在製程上分站管理，可堆疊、清洗完成後可直接出貨

Wafer Shipping Box has bottomed and upper lid, it used for delivering blank wafers to wafer factory to avoid wafer collision and contamination.

<b>Material</b>	PP
<b>Color</b>	Original(Transparent), Black
<b>Size</b>	4" - 25pcs 6" - 25pcs (Reuse) 8" - 25pcs (Reuse)





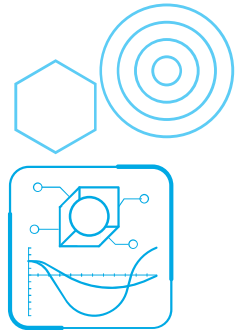
## Wafer Single Tray

# 晶圓單片盒

存放、保護高單價晶圓，避免碰撞，安全可靠，滿足產品特殊存放及運輸要求。

Implementing measures for safeguarding and preserving high-value wafers to ensure superior protection.

<b>Material</b>	PC
<b>Color</b>	Transparent
<b>Size</b>	8", 12"



Using cutting-edge packaging methods to protect technological innovation.

## What we provide

我們是專業的IC周邊包材供應商，產品線涵蓋了晶圓盤、晶粒盤、晶圓盒、晶舟盒、擴張環、晶片環、塑膠夾、TYVEK紙、無塵紙、宣紙、導電紙、導電片等三十多種系列，超過1000種產品。可以根據客戶的不同需求，提供各種客制化規格的产品。

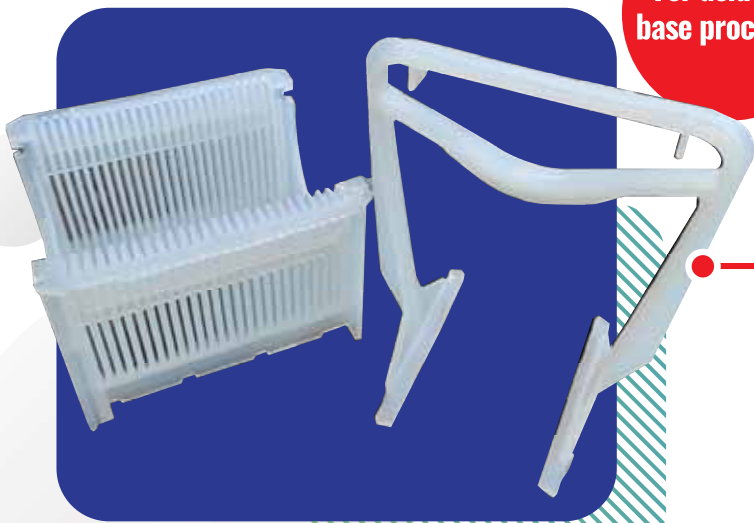
Our product lines cover every field of IC peripheral packaging. We understand customers' need and market trends. We have more than one thousand products in over thirty series. Various customized product specifications include: wafer frame, wafer storage boxes, wafer cassette, wafer ring, wafer extended ring, chip tray, Tyvek separated paper, etc.

## Products

- ✓ Wafer Box
- ✓ Wafer Frame
- ✓ Front Opening Box/Pod
- ✓ Frame Box
- ✓ Expander Ring
- ✓ DJ300F
- ✓ Wafer Cassette
- ✓ Wafer Frame Shipper
- ✓ Wafer Transfer
- ✓ Chip Tray
- ✓ Expander Ring Shipper
- ✓ Separator



For acid and base processes



PFA Cassette

## 鐵氟龍卡匣

適用在耐高溫條件下防黏和耐化學性領域  
Withstands heat from 200 to 220°C and resists strong acids, hydrofluoric acid, and bases.  
\*The handle is optional.

<b>Material</b>	PFA
<b>Color</b>	Original
<b>Size</b>	4" - 25slot 6" - 25slot 8" - 25 slot 12" - 13slot

PP Cassette

## PP卡匣

廣泛使用於晶圓廠配合生產機台

Widely Used in semiconductor fabs with production equipment.

<b>Material</b>	PP, ESD
<b>Color</b>	Original, Black
<b>Size</b>	4" - 25 Slot, 6" - 25 Slot, 8" - 25 Slot

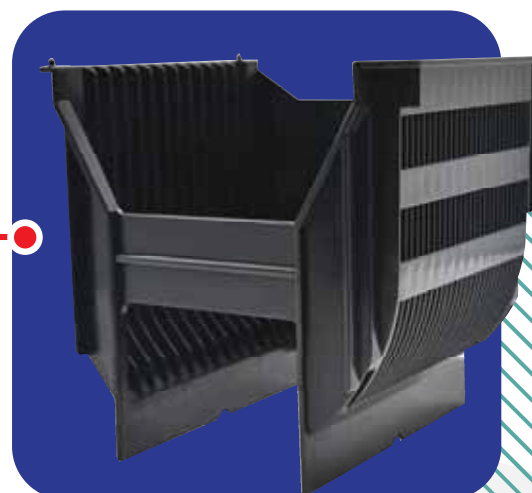
PEEK Cassette

## PEEK卡匣

硬度高、耐磨、耐高溫

High hardness, wear resistance, and high temperature resistance.

<b>Material</b>	PEEK
<b>Color</b>	Original
<b>Size</b>	4" - 25 Slot, 6" - 25 Slot



### Cassette Materials

Material	Temperature	Property	Application
PFA Cassette	200~220°C	Resistant to strong acids, hydrofluoric acid, and strong alkalis.	For acid and base processes
PP Cassette	40~60°C	Lightweight, weldable, but susceptible to deformation.	For general transfer process
PEEK Cassette	120°C	High hardness, wear-resistant, and resistant to deformation.	
PC Cassette	80~100°C	Excellent dimensional stability, light weight, able to weld	
PEI Cassette	130~150°C	Wear-resistant, anti-static.	

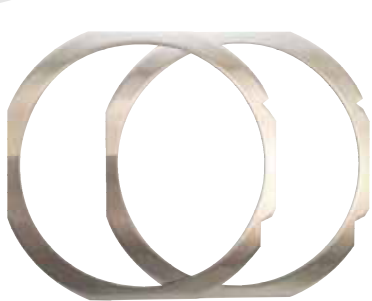
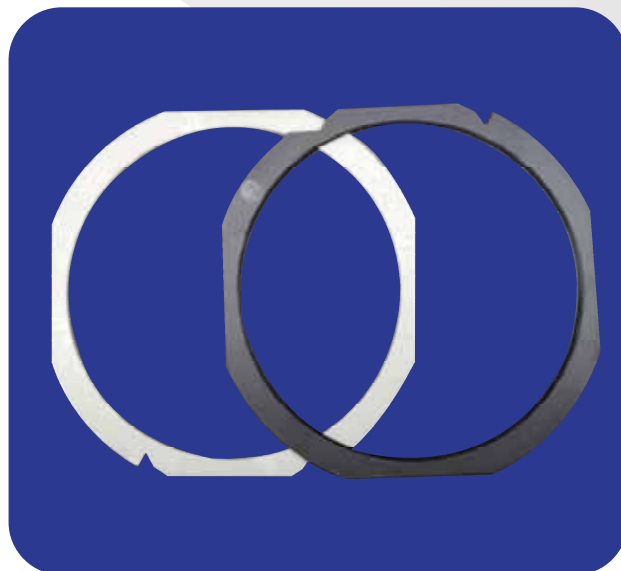
## Wafer Frame/Ring

# 晶圓環

搭配晶圓切割機使用，用於晶圓研磨、切割時之固定外框，切割完成也可直接出貨。

Wafer Ring can go with wafer cutting machine or wafer polishing, able to dispatch after cutting. Metal frame can be used with blue tape, able to use repeatedly by washing.

<b>Material</b>	ABS, PPS, STEEL
<b>Color</b>	Original Customized (ABS) Black (PPS) Metal
<b>Size</b>	ABS 6", 8" PPS 6", 8", 12" STEEL 6", 8", 12"

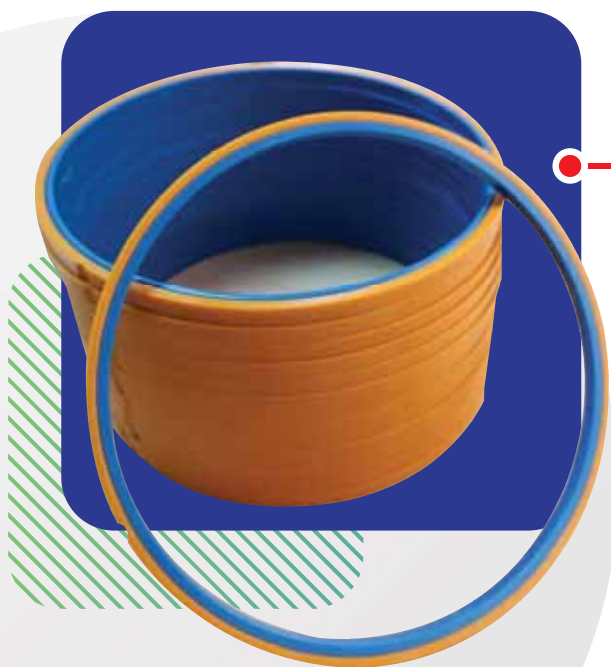


## Wafer Expander Ring

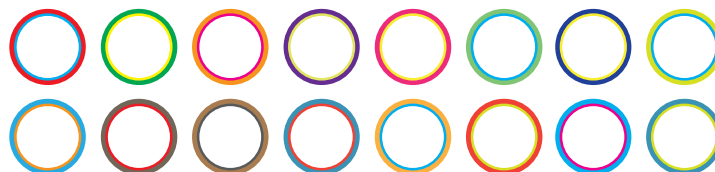
# 擴晶環

將晶片、晶圓固定並良好的擴展

Expander Ring able to fix wafer to let it expand; provide variety of specs for customer to choose.



<b>Material</b>	PBT, PC, PBT+GF, PC+GF
<b>Color</b>	Original, Customized
<b>Size</b>	4", 5", 6", 7", 8", 12", Customized



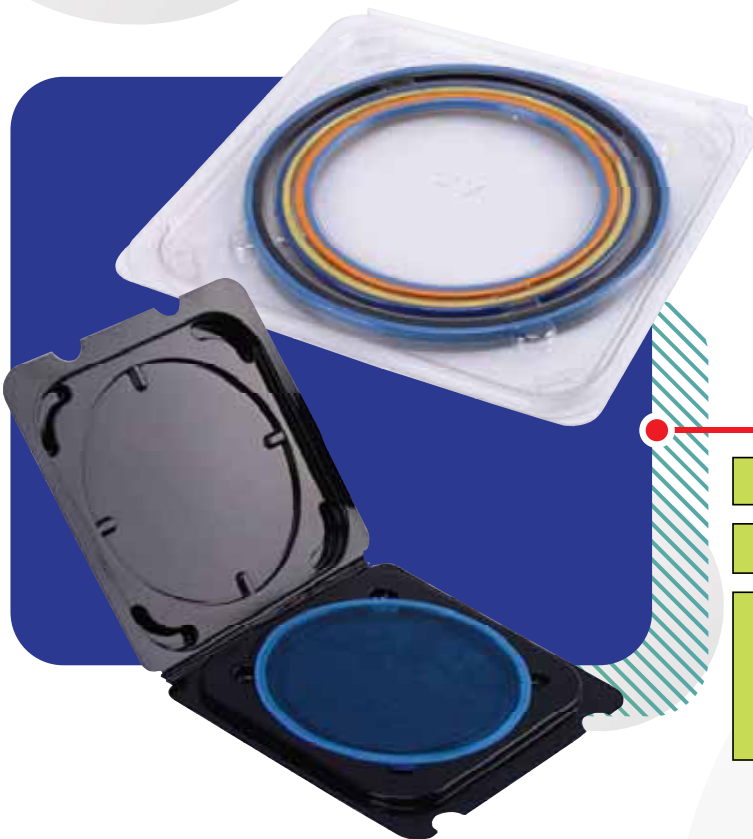
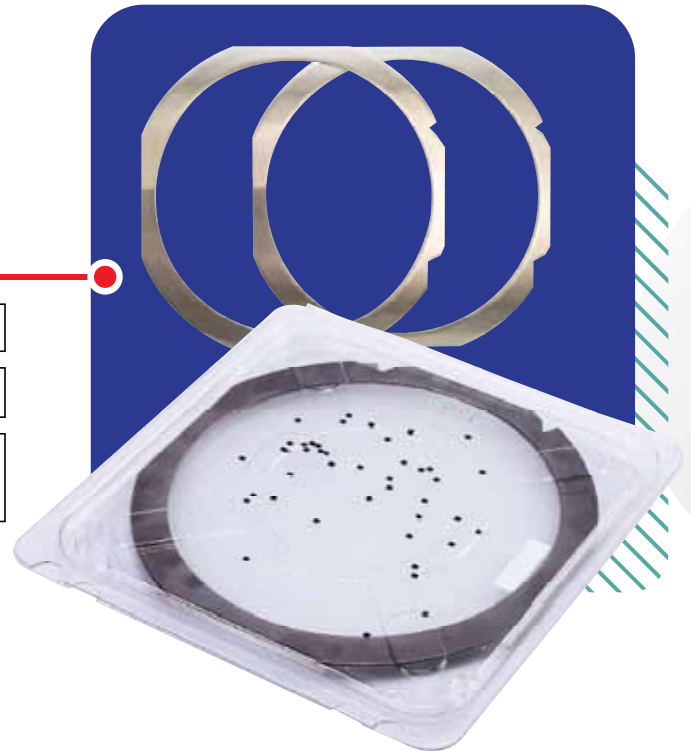
## Wafer Frame Shipper

# 晶圓環吸塑盒

保護單片晶圓/晶片/半導體及其框架，減少產品間摩擦，避免碰撞損傷。

Wafer frame shipper provides a safe and effective way to ship and store single wafer avoid collision.

<b>Material</b>	PET, PS, ESD, Customized
<b>Color</b>	Transparent, Black, Customized
<b>Size</b>	6", 8", 12", Customized



## Expander Ring Shipper

# 擴晶環吸塑盒

保護單片晶圓減少產品間摩擦  
防靜電，可針對不同規格材質單獨客製

Hoop Ring Shipper, Box for Grip Ring storage has variety of spec for customer to choose.

<b>Material</b>	PET,ESD, Customized
<b>Color</b>	Transparent, Black, Customized
<b>Size</b>	4+5", 5", 7", 8", 6+7+8", 12", Customized

領先業界

Industry Leader

效率優先

Devoted Efficiency

創新專注

Innovation Focus

FOUP(Reuse)

## 前開式傳送盒

穩定且精準的空間特性，具有耐磨耗晶圓支撐器、wafer防滑動supporter設計和可透視視窗，尺寸符合SEMI規範

FOUP is easy to clean and maintain, fully align with SEMI standard of automation interface, compatible with AMHS. FOUP provides clean and secure environment to protect valuable wafer transport.

<b>Material</b>	PC+PEI+ABS
<b>Color</b>	Muti-color
<b>Size</b>	12" x 25 slot



FOSB(Reuse)

## 前開式出貨運輸盒

氣密度佳，能預防微粒物質的產生

FOSB can protect, deliver and store wafer, reduce particle contamination and protect wafer from static electricity damage.



<b>Material</b>	PC+PEI+ABS
<b>Color</b>	Transparent
<b>Size</b>	12" x 25 slot



DJ300F

## 前開式晶圓傳送盒

善用視覺管理，有效區別不同站別制程之晶圓片。

Visual management can distinguish wafers from different station processes. Heat resistance: below 80°C can be used normally

<b>Material</b>	PC(ESD)
<b>Color</b>	Body : Black(ESD) Handle : Black(ESD), White, Blue, Green, Red
<b>Size</b>	12" x 25pcs



SMIF Pod

## 晶舟自動化傳輸盒

SMIF Pod 自動化傳送盒放置晶舟(Cassette)，固定晶圓片，確保200mm晶圓在製程站間運送與儲存的安全防護。

SMIF Pod can load wafer cassette inside, protects wafers during transport between processes. Size complies with SEMI standard, provides high cleanliness to wafer loading and automation solution.



<b>Material</b>	PC, PC ESD
<b>Color</b>	Original(Transparent)
<b>Size</b>	8"

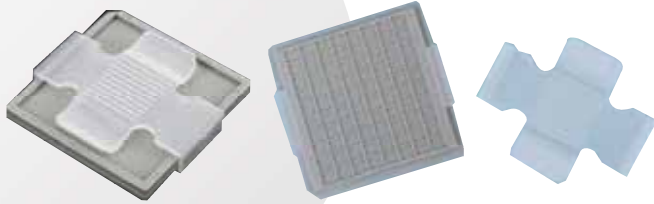
## Chip Tray/IC BOX

# 晶粒盤

IC裸片晶粒儲存盒, 存放裸片/晶粒, 提供固定、防震、儲存功能

Used for store die, die, can absorb substrate, fix, shockproof, storage size can be customized, grid printing, adhesive, anti-static.

<b>Material</b>	ABS, PS, PC, ESD, Customized
<b>Color</b>	Black(ABS), Gray(PS), Customized(PC)
<b>Size</b>	2", 3", 4", Customized

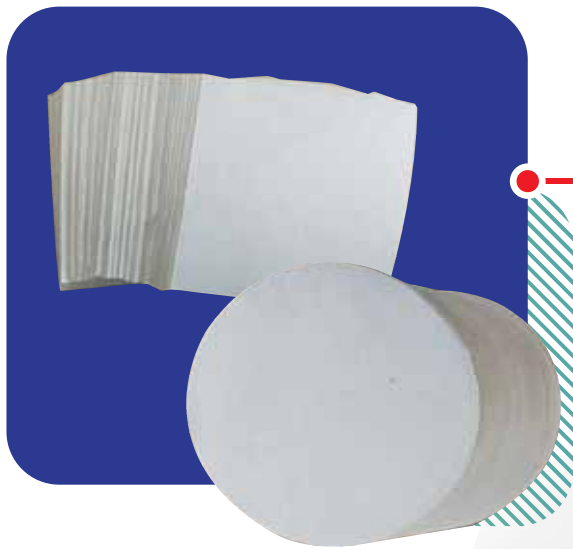


## Separator/Tyvek

# 間隔紙

各種顏色, 多種材質, 協助您打造深刻的品牌印象

Used for separation of wafers when shipped in a container/ wafer box. To secure the protection between wafers



<b>Material</b>	Tyvek
<b>Color</b>	Original, Black
<b>Size</b>	Square 2", 3", 4", Customized
	Round 4", 5", 6", 8", 12", Customized
	Round-Anti Stastic 6", 8", 12"

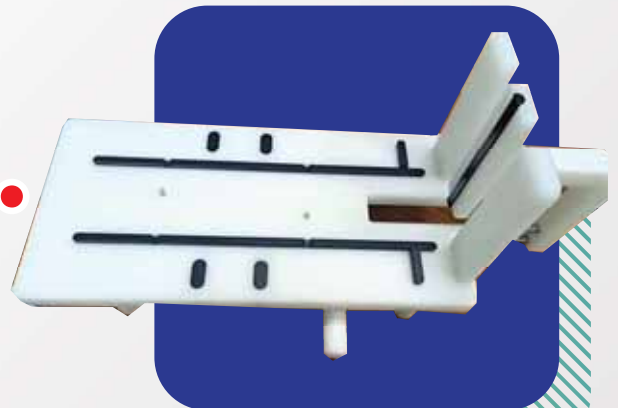
## Wafer Transfer

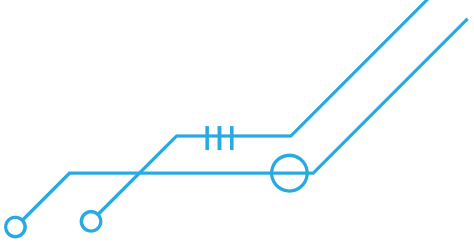
# 自、手動晶舟轉換器

平均穩定, 避免損壞

Automatic/Manual bulk-wafer transfer tool. Wafers are horizontally slide-transferred between two cassettes.

<b>Material</b>	PP, POM, Metal, Customized
<b>Color</b>	Original, Customized
<b>Size</b>	4", 6"





半導體晶圓的未來映照著夢想的願景，猶如閃爍的光芒引領人類進入科技的新紀元。在這個科技宇宙中，無數嶄新的可能性湧現。這些應用將在多個領域推動基本的突破，為我們的生活帶來更多的便利、創新和長期的活力。

彷彿時光之舟，半導體晶圓將我們引導，穿越虛實之間。前瞻的願景，如魔法的鏡頭，為我們展示了一個神奇而未知的未來。那裡，新的科技時代已然展開，每個思想的火花，在星辰之間閃爍綻放。

然而，半導體晶圓的製造過程卻極為複雜且脆弱，需經歷一連串精密步驟，方能確保最終產品的品質和效能。在這樣的製程中，保護晶圓的完整性與品質，也就成了維護整個製程流暢運行的關鍵。

The semiconductor wafers reflect the future vision, analogous to glittering lights guiding us into a new era of technology. In this perplexing environment, innumerable new possibilities emerge. These applications will accelerate fundamental breakthroughs across multiple areas, bringing increased convenience, innovation, and sustainability into our lives.

Semiconductor wafers, like a time vessel, guide us through the realms of reality and fantasy. Visionary ideals, like enchanted lenses, reveal a wondrous and unknown future. A new technological age has already begun there, with each spark of thinking sparkling among the stars.

However, the fabrication process of semiconductor wafers is exceedingly intricate and delicate, requiring a sequence of intricate steps to ensure the quality and efficacy of the final product. In the midst of such a process, safeguarding the integrity and quality of the wafer becomes the pivotal factor in maintaining the seamless operation of the entire manufacturing process.



# 鑄毅科技

# Zhuyi Technology

## Get In Touch

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