EVERISLAND 九介企業

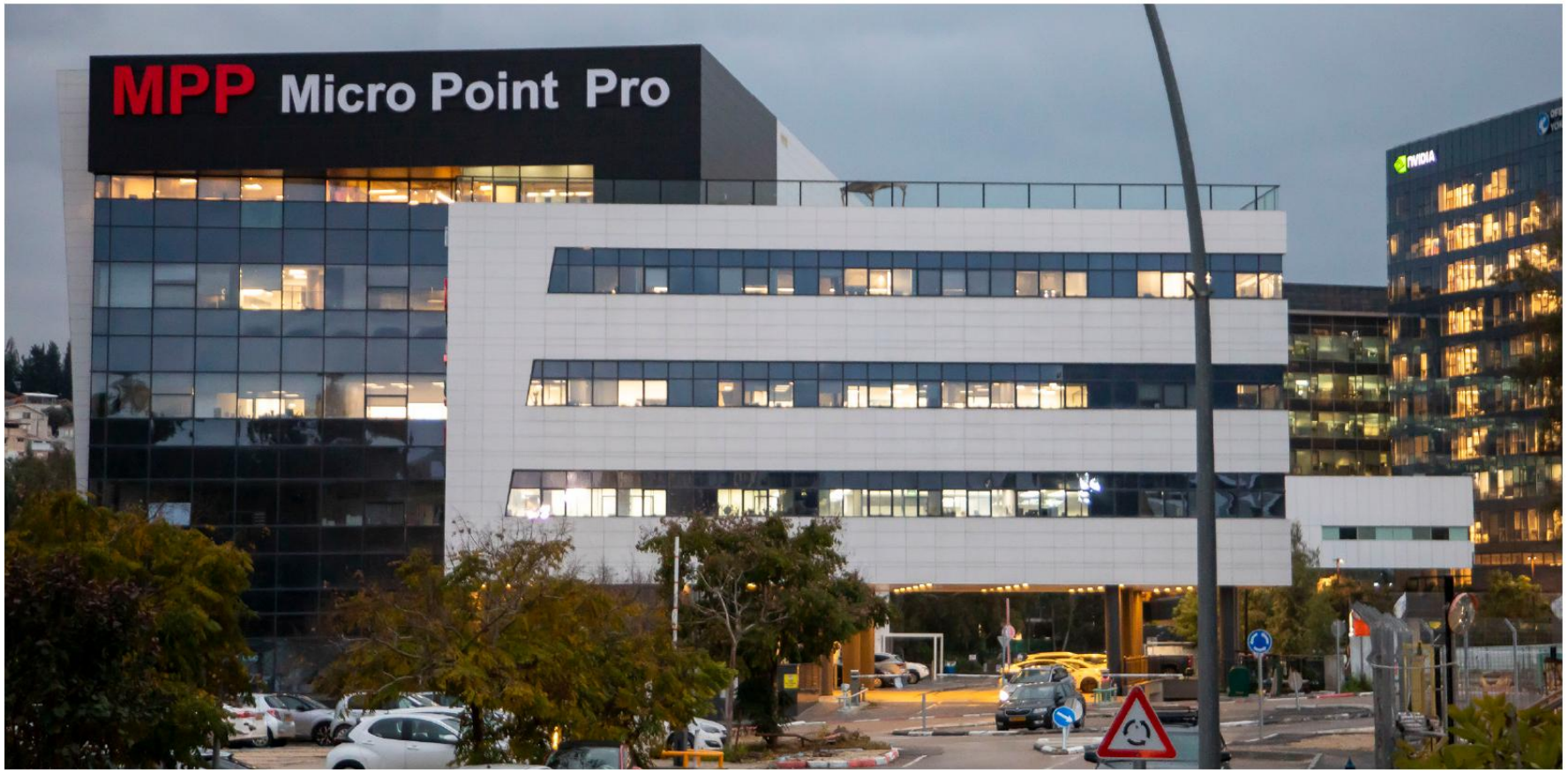
Since 1982

Micro Point Pro

Professionals in Customized Micro Tools

MPP公司與Tools產品介紹

以色列MPP(Micro Point Pro)公司



Micro Point Pro
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- 以色列MPP公司成立於2010年，同年收購K&S(Kulick & Sofa)後段工具生產線，與接收具有超過 40 年專業與經驗的員工。
- 通過強化技術能力與收購相關技術，MPP在半導體後段工具製造工藝上確立全球市場領導地位。

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MPP產品

Micro Point Pro

Professionals in Customized Micro Tools

Small & Heavy Wire Wedges

Clip Bonding Tools

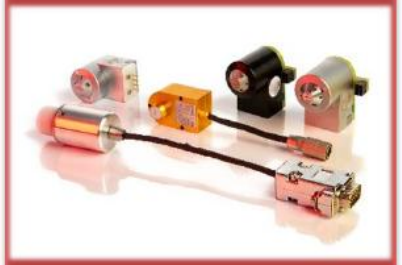
Pick & Place & die attach Tools

Nozzles & Dispensing Tools.

"Build to Print / Spec" Services

Manual Wire Bonders

4 Point Probe Heads For Wafer Resistivity



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MPP – 細線鋼嘴Fine Wire Wedge (FWW)

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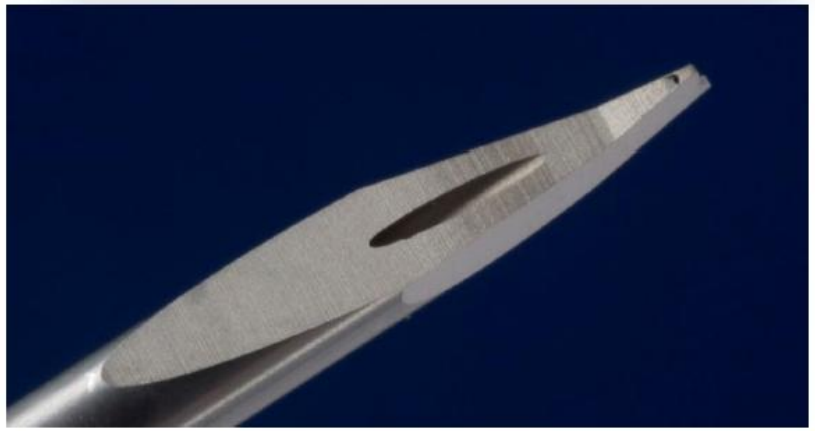
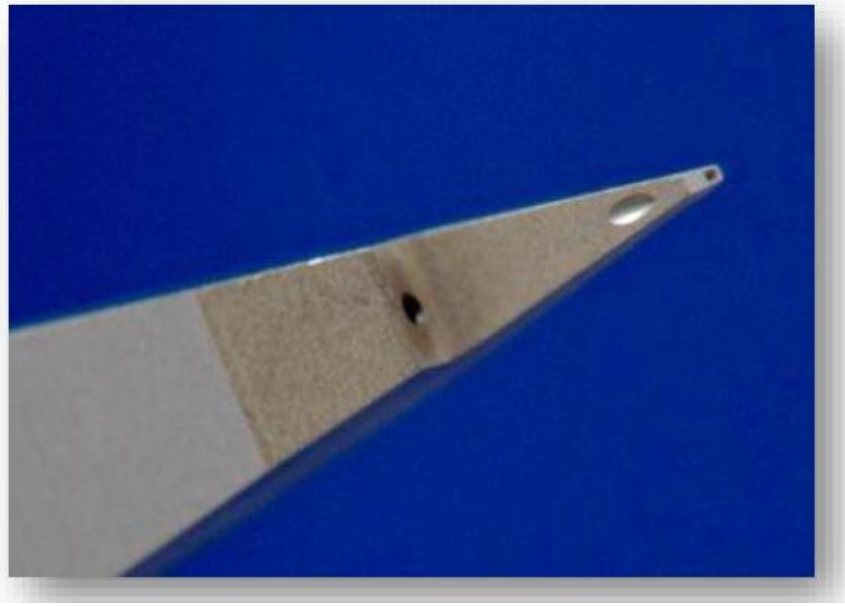
- 提供針對不同應用的客製化鋼嘴。
- 提供以色列高精度加工品質。
- 適用於各種廠牌打線機。
- 提供Standard、Ribbon、Fine Pitch/Ultra Fine Pitch、Deep Access 鋼嘴。





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MPP – 超細線鋼嘴Ultra Fine Pitch Wedge

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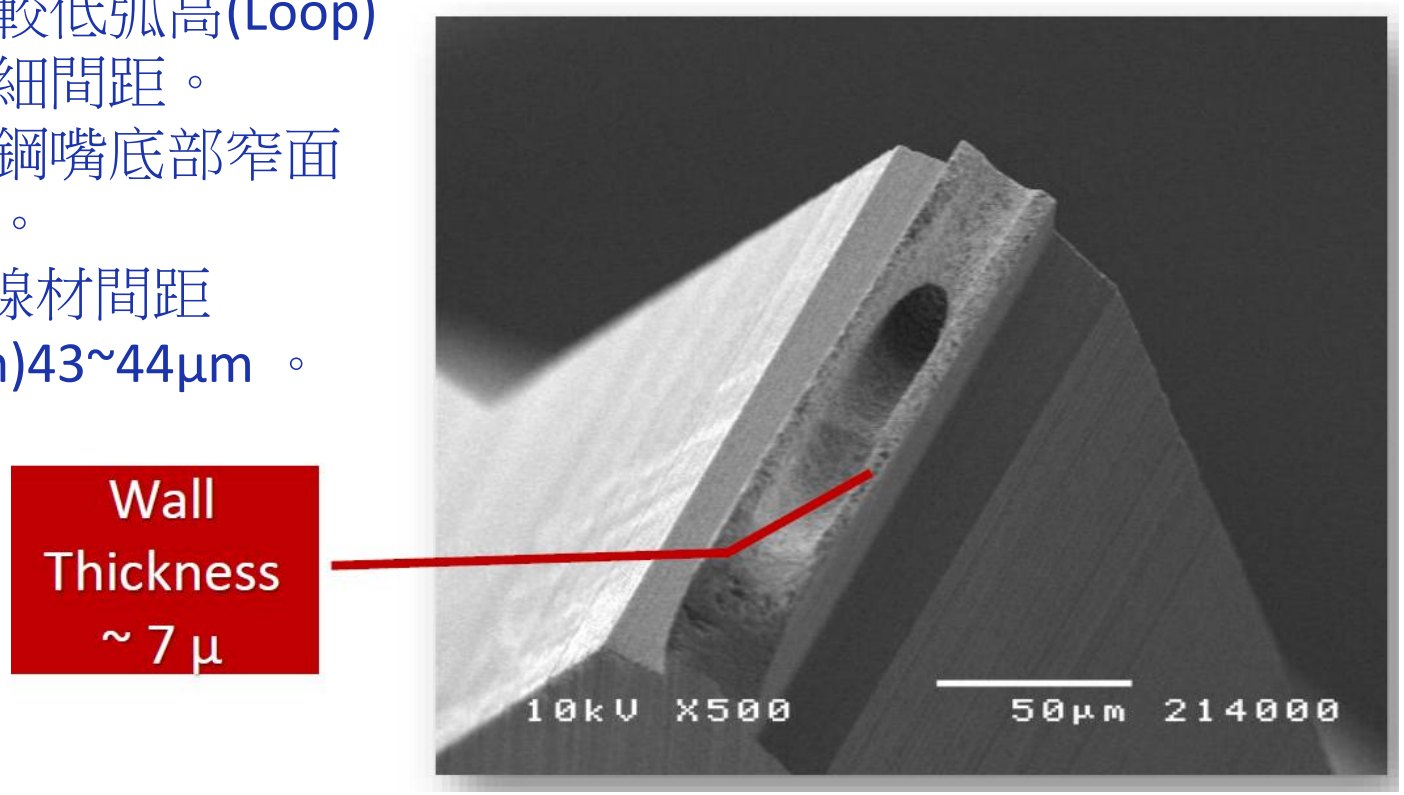
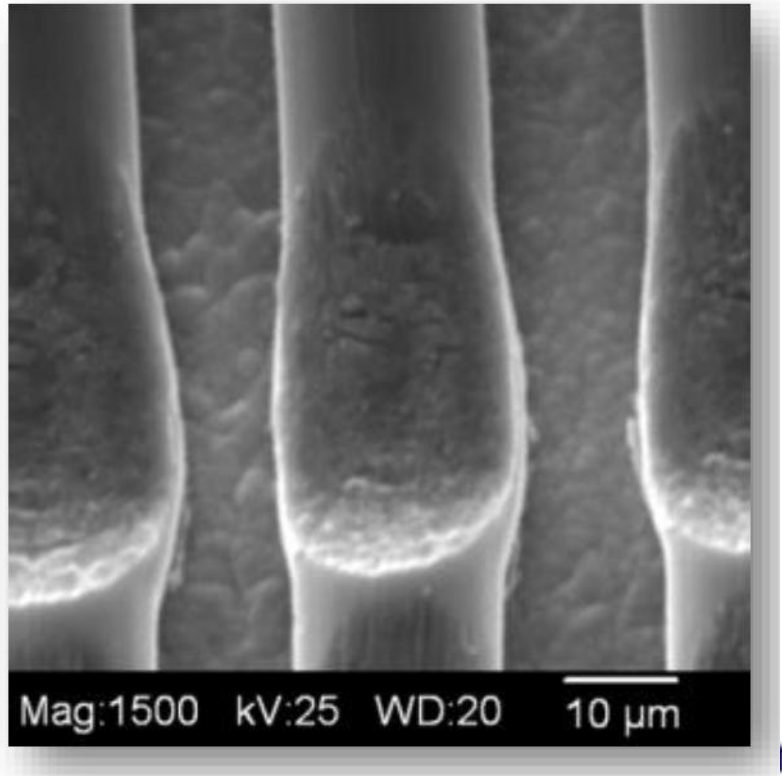
- 提供較低弧高(Loop)與超細間距。
- 特殊鋼嘴底部窄面設計。
- 1mil線材間距(Pitch)43~44µm 。

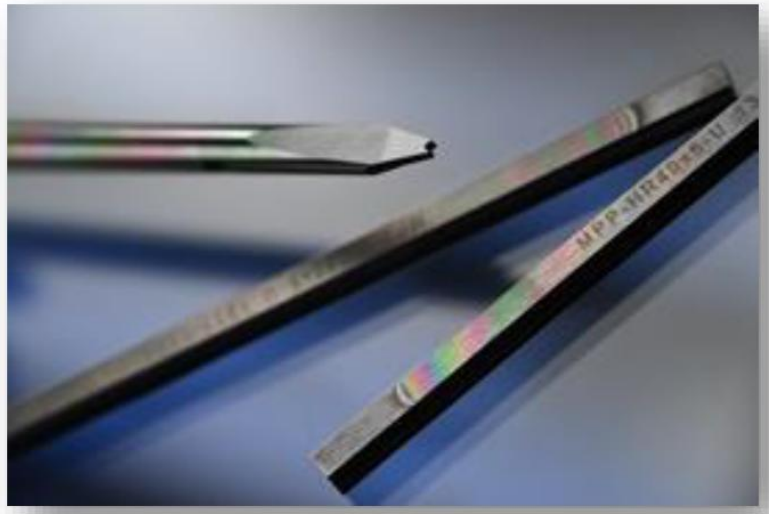


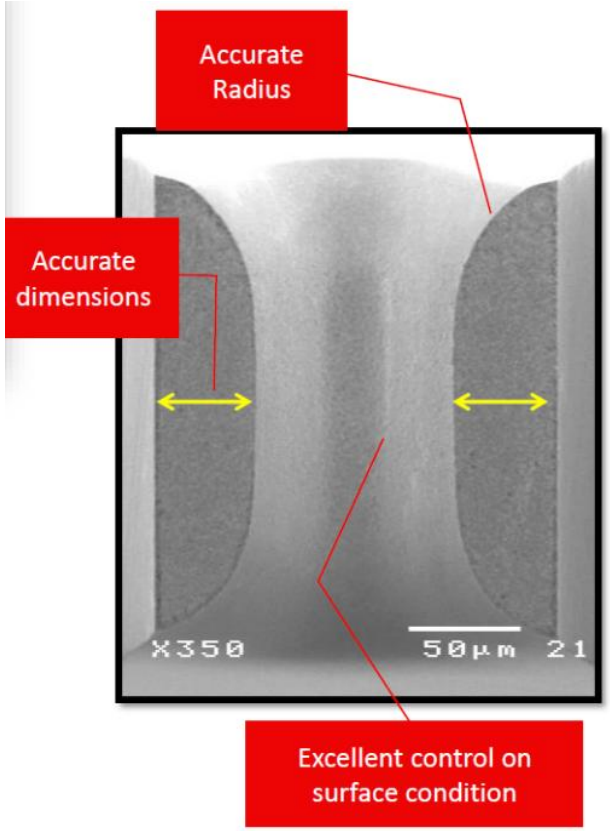


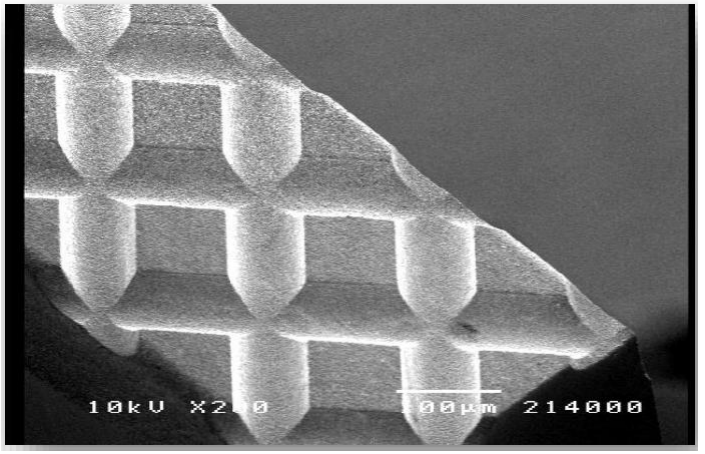
MPP – 粗線鋼嘴Heavy Wire Wedge (HWW)

Micro Point Pro
Professionals in Customized Micro Tools

- MPP鋼嘴材料與尖端設計可提供較佳的抗磨耗(Wear)與降低鋁渣殘留能力。
- MPP提供免清洗特殊表面塗層，鋼嘴在使用壽命期間完全不需要清洗，可降低因鋼嘴清洗的設備停機與參數重新校正時間。







MPP – 鋼嘴尖端降低鋁渣殘留設計

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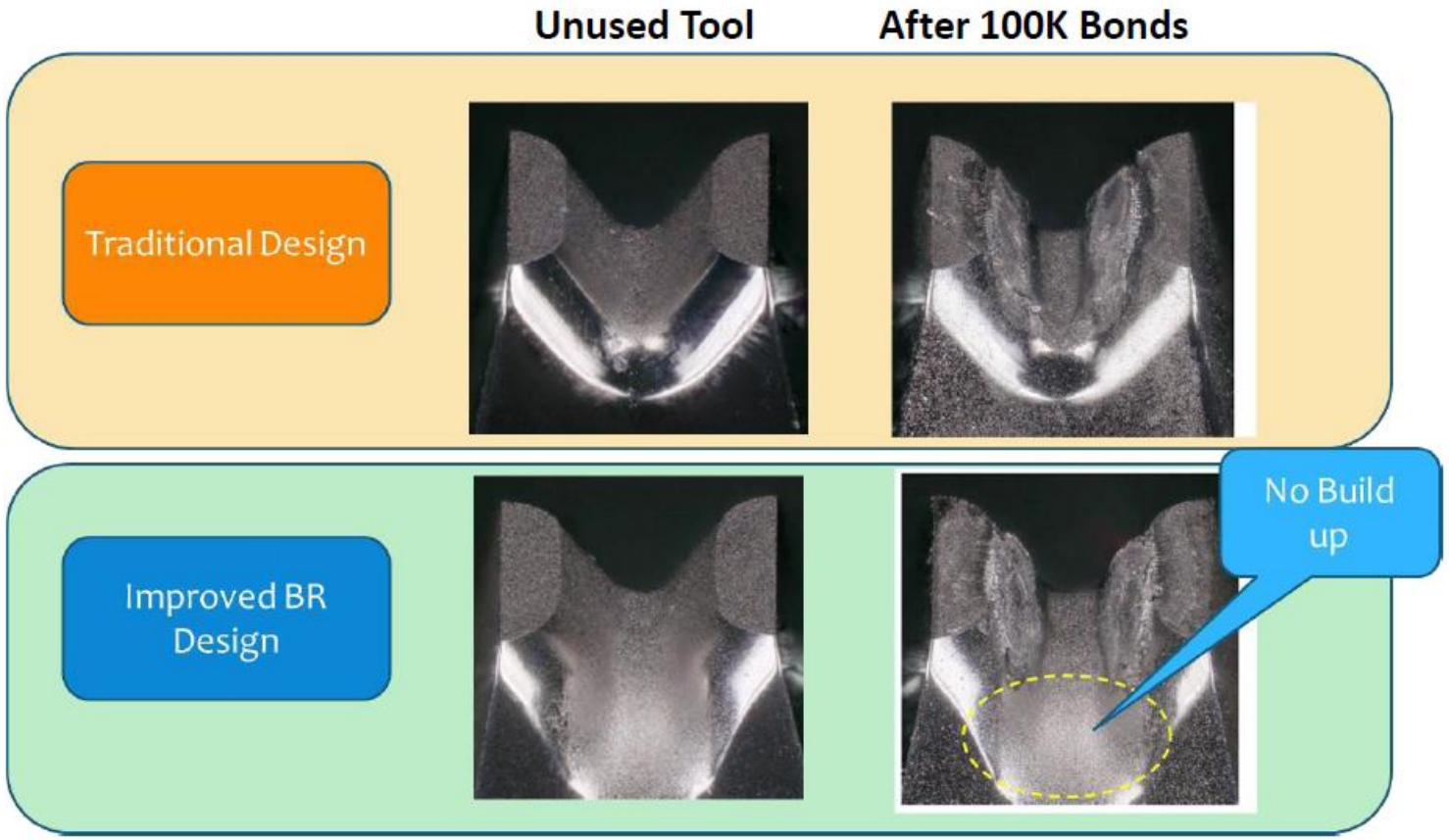

- 傳統鋼嘴尖端設計容易累積鋁渣 (Aluminum Build Up)，造成打線後Heel Cracks與形變。
- MPP提供特殊鋼嘴尖端設計，可降低鋁渣累積並延長鋼嘴使用壽命。

MPP – 鋼嘴焊線品質改善

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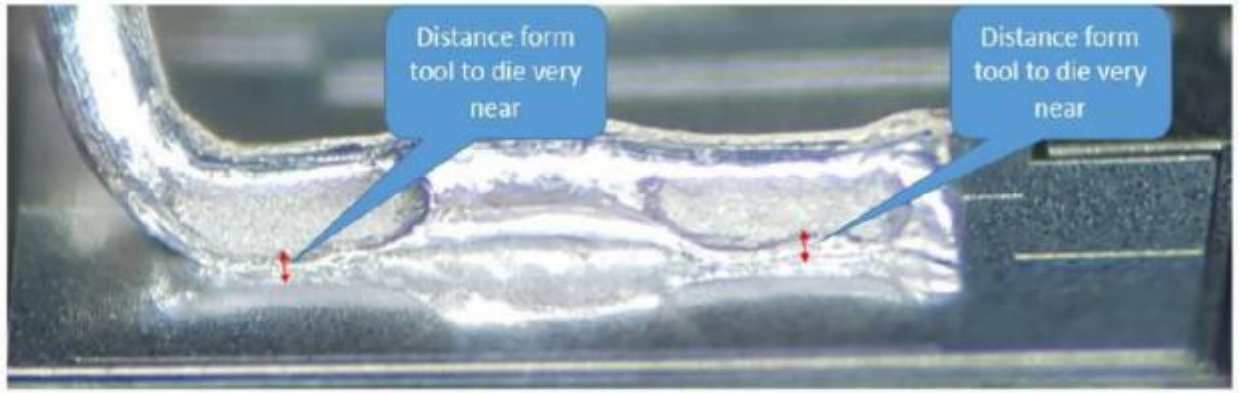
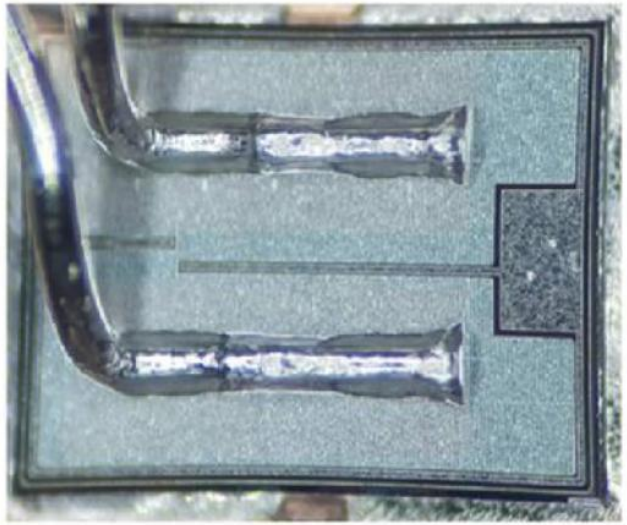
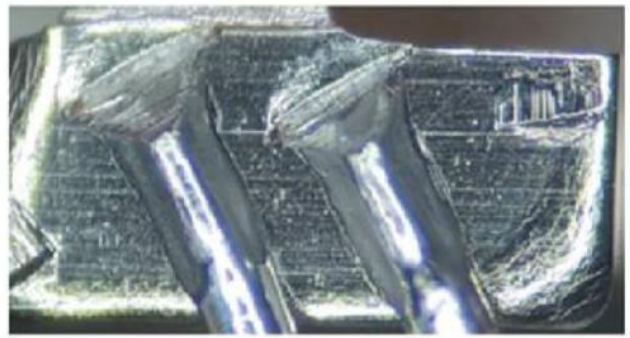
- 針對10mil焊線，MPP特殊鋼嘴尖端設計，可減少Smearing Bond焊線不良現象。



Smearing Bond





Good Bond

MPP – 鋼嘴免清洗特殊表面塗層

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- MPP鋼嘴免清洗特殊表面塗層，可在鋼嘴600K焊線次數(Bonds)內，不需要進行鋼嘴清洗。
- MPP鋼嘴免清洗特殊表面塗層，不影響鋼嘴尖端尺寸與超音波能量等焊線製程參數。

- Reduce AL “Build-Up”
- Maintain tool life span without “Cleaning Cycles”

MPP – Clip Bond Dispensing Tools

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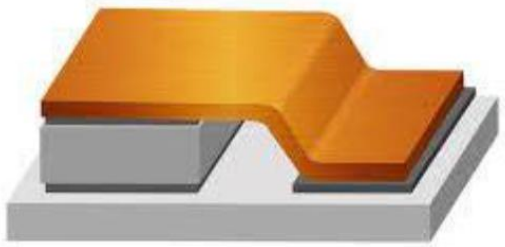
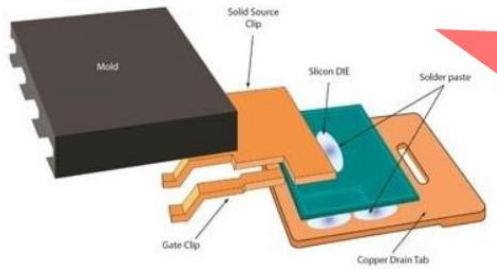
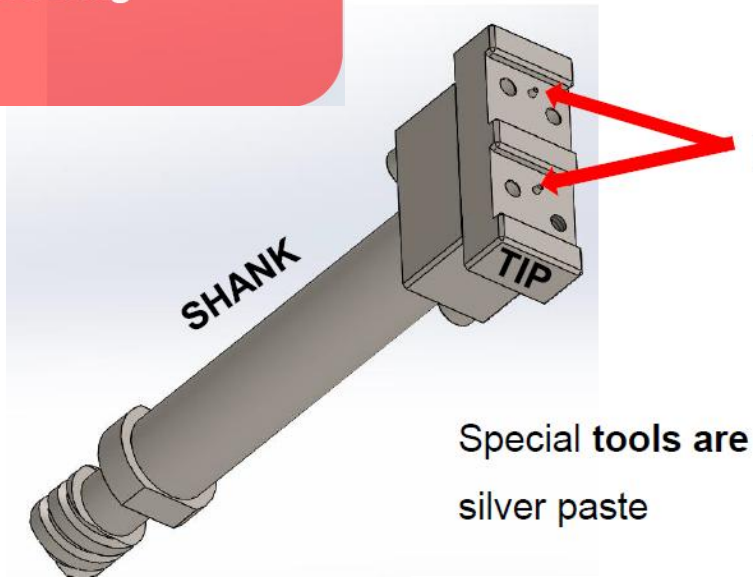




Clip attach process connects die and lead by a solid copper clip with adhesive bonding or soldering

- 一般Clip Bond Dispensing Tool會有需要頻繁清潔、出料不均、使用壽命低的問題，造成產能下降。MPP為解決前述問題，採用創新性流體分析進行Dispensing Tool設計，提昇Clip Bond良率與產能。



Special **tools are** used for dispensing silver paste

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MPP – Pick & Place and Dispensing Tools

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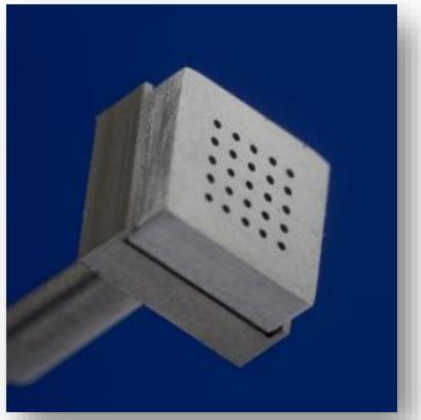

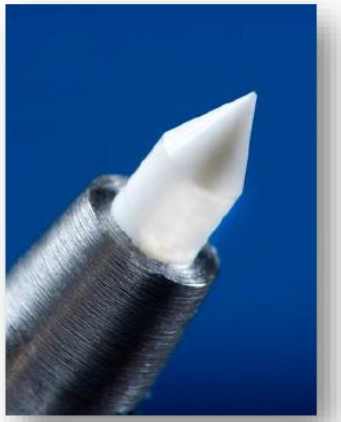

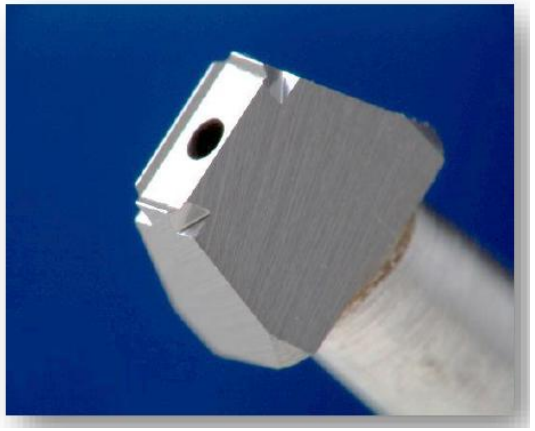

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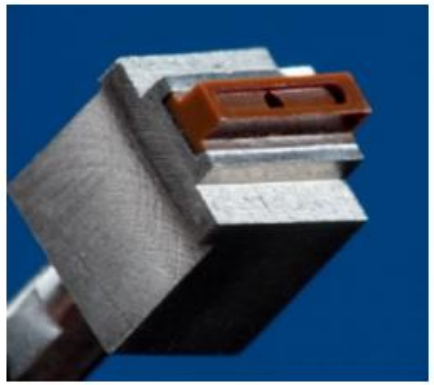

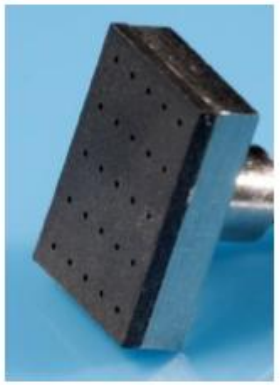
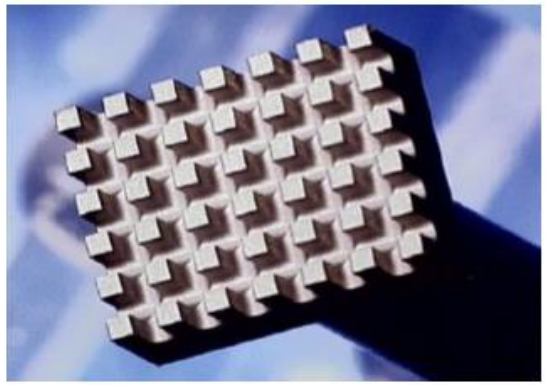

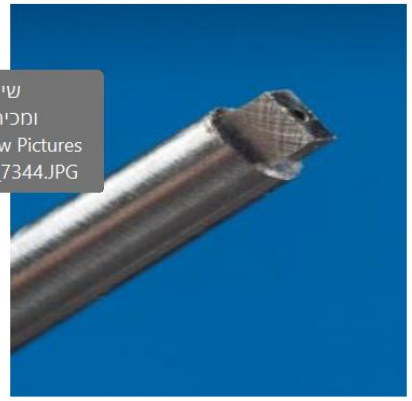

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MPP – 四點探針(4 Point Probe Heads)

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- MPP為四點探針技術領先製造商。
- MPP廠內整合製造、組裝與測試。
- 相容KLA、Napson、Kokusai等四點探針設備。

MPP – 全球客戶

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Automotive	OEM	Defense	Hard Disc Drive	Semiconductor	Micro Electronics	Subcon
TOSHIBA	KOKUSAI ELECTRIC	MITSUBISHI	TDK	intel	SAMSUNG	ASE GROUP
SUBARU	超音波工業株式会社 ULTRASONIC ENGINEERING CO., LTD.	THALES	WD	DENSO Crafting the Core	Panasonic ideas for life	Amkor Technology
TESLA	KLA Keep Looking Ahead	RAFAEL ADVANCED DEFENSE SYSTEMS LTD.	Seagate	KYOCERA	Fuji	HANA Microelectronics
Continental	NAPSON CORPORATION	IAI ISRAEL AEROSPACE INDUSTRIES		ROHM SEMICONDUCTOR	qorvo	Carsem
vitesco TECHNOLOGIES	LG Innotek	BAE SYSTEMS		HITACHI Inspire the Next	SEMIKRON	RENESAS
	PacTech	MBDA MISSILE SYSTEMS		SONY	RENESAS	psi
	HESSE MECHATRONICS	COBHAM		Infineon	MICROCHIP	AMPLEON
	MICRONIC	LEONARDO		NXP	NVIDIA	Vincotech
	LASERVALL				nexperia	

Thank You for Your Attention