



SMT Splicing Total Solution



M.O.A is...

We, M.O.A are a original manufacture in Korea and one of the leading company related SMT splicing solutions.

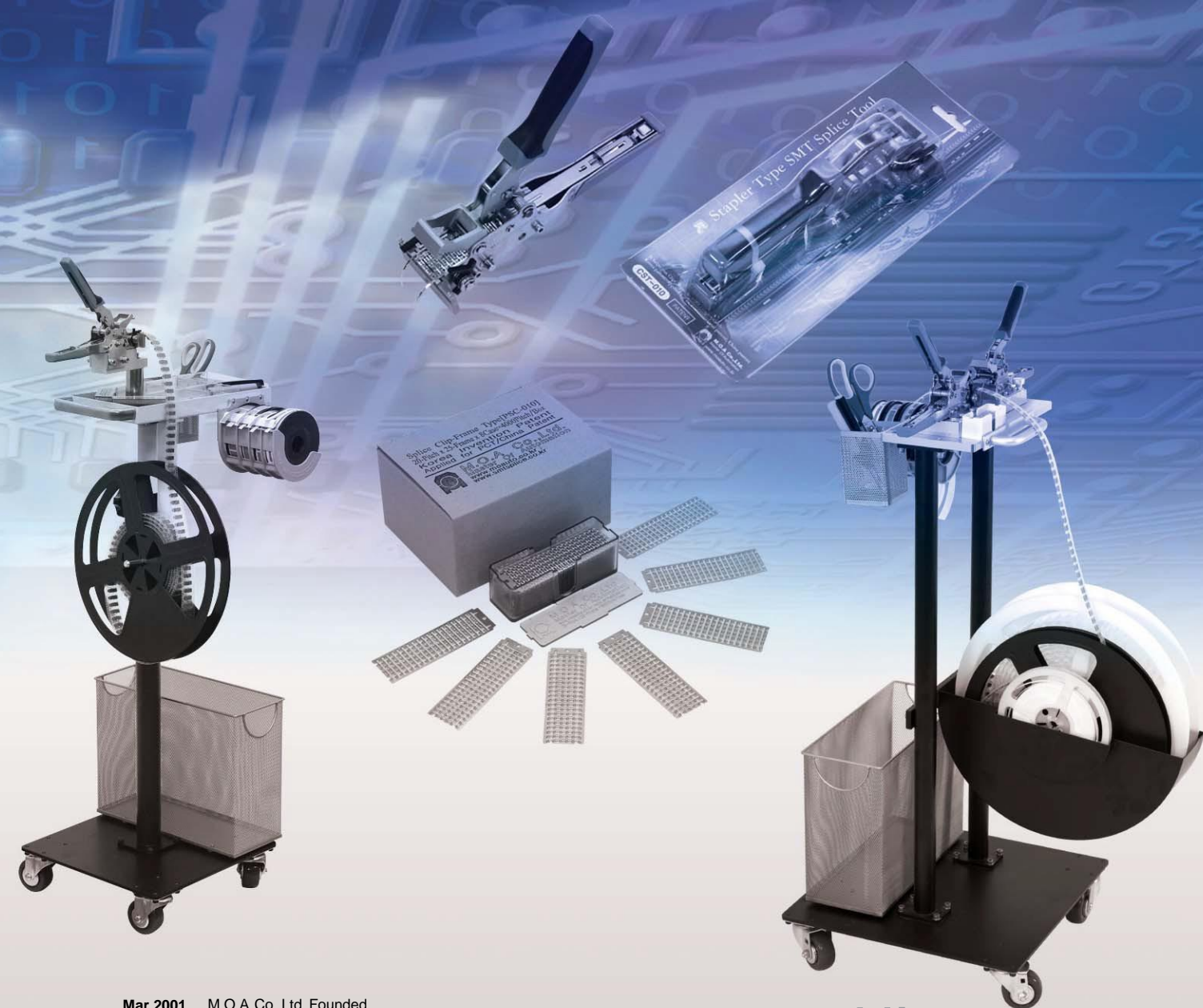
As a leading manufacturer with R&D of semiconductor equipment and electronic devices, we develop & provide SMT Splice Devices and Splice Clip, Splice Tape and SMT Pitch Scissors, used for SMT Chip Mounters.

Since Nov., 2004, we have been providing those products for large and middle & small sized companies to our local market and overseas countries such as Japan, USA, Russia, India. China, Mexico, Slovakia, Singapore, Malaysia, Germany, Canada, UK and Africa, etc.

As world-first, we developed a stapler-type splice tools and have a patent, which can contain 20 pitches of splice clip(Frame Type) in a frame and also supplied Swing Splicing Device and Dual Splicing Device since July, 2008. Those products help our clients to improve their production efficiency & MTBF drastically and allow them non-stop feeding for their SMT line s.

We have supplied to 50 distributors in the world these Dual Auto Rewinding Machine 3-Item(DAR-1313/1322/2222) since April 2017 by significant performance improvement Dual Auto Rewinding Machines 2-Items(DAR-1313/1322) from June 2016 which have used in the S Company since 2015 year.

At present, in order to expand our business territory, we are looking for Business Partner who can sell & represent our product and also, work together to develop a new business opportunity & penetrate market based on partnership.



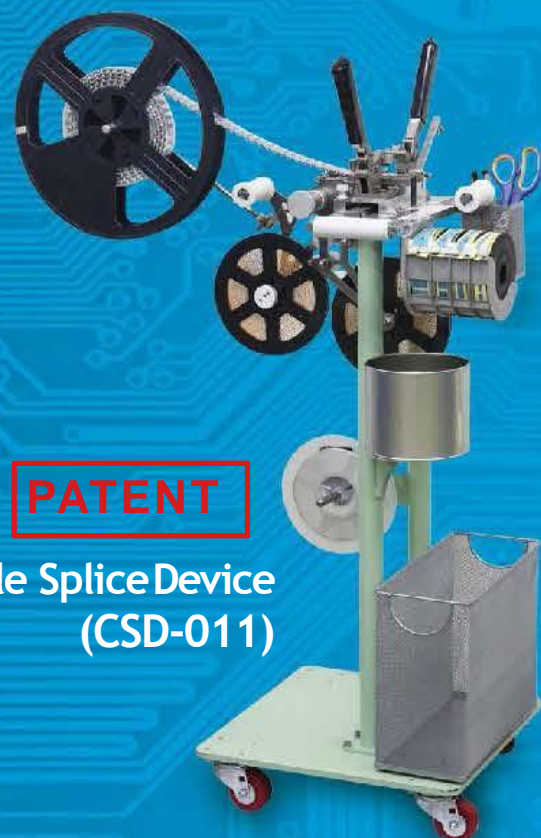
History

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|------------------|--|--|
| Mar.2001 | M.O.A Co.,Ltd. Founded. | |
| Mar.2002 | Launched development of 12" Wafer Burn-in System Test equipment | |
| Oct. 2002 | Jointly developed 12" Wafer Burn-in System Test Head | |
| Feb.2004 | Produced 8" Wafer Burn-In Test Equipment No. 130 | |
| Apr. 2004 | Produced 12" Wafer Burn-In Test Equipment No. 102 | |
| May.2004 | ISO-9001 Certified | |
| May.2005 | Obtained Korea Patent No. KR0493451 (Name of Invention: CLIP RIBBON AND APPARATUS FOR SPLICING SURFACE MOUNTED DEVICE CARRIER TAPE) | |
| May.2005 | Applied for PCT International Patent (PCT/KR2005/001758) (Name of Invention: CLIP RIBBON AND APPARATUS FOR SPLICING SURFACE MOUNTED DEVICE CARRIER TAPE) | |
| Sep.2005 | Obtained Model Utility right No. KR0395957 | |
| Aug.2006 | Moved to new factory (Digital Empire E Rm #303,304, 980-3, Youngtong-dong, Youngtong-Ku, Suwon city, Kyungki-do, Korea) | |
| Jan. 2007 | Gaining CE-Mark | |
| Apr. 2007 | Participated in SMT-PCB & NEPCON 2007 KOREA at COEX | |
| May.2007 | Obtained Korea Patent No. KR0723797 (Name of Invention: APPARATUS FOR SPLICING SURFACE MOUNTED DEVICE CARRIER TAPE) | |
| Feb.2008 | Participated in SMT-PCB & NEPCON 2008 KOREA | |
| Jul. 2008 | R&D and Join acquisition with Spicing Tool business and improved the quality (Partner : Jung WooTech) | |
| Aug.2008 | Applied for PCT International Patent (PCT/KR2008/004451) (Name of Invention: CLIP RIBBON AND APPARATUS FOR SPLICING SURFACE MOUNTED DEVICE CARRIER TAPE) | |
| Aug.2008 | Participated in SMT-PCB & NEPCON 2008 SOUTH CHINA (Shenzhen) | |
| Aug.2009 | Obtained Patent an Invention Single/Double Splice device & Splice Clip-Reel Type (China Patent No. ZL 2005 8 0019110.1) | |
| Dec.2009 | Obtained 1st Patent an Invention Splice Tool-Stapler Type & Splice Clip-Frame Type (Korea Patent No. 10-0932739) (Clip for connecting an electronic parts feeding tape, clip ribbon having the same and connecting instrument of electronic parts feeding tape using the same) | |
| Sep.2010 | Obtained 2nd Patent an Invention Splice Tool-Stapler Type (Korea Patent No. 10-0985774) (Clip for connecting an electronic parts feeding tape, clip ribbon having the same and connecting instrument of electronic parts feeding tape using the same) | |
| Sep.2013 | Obtained Patent an Invention Splice Clip-Frame Type (China Patent No. ZL 2008 1 0212792.3) | |
| Jun.2016 | Push business take over Research & Development & Quality Improvement for Dual Auto Rewinding machine (2 kinds) / Blade Damage Vision Inspector (1 kind) | |
| Feb.2017 | Take over patent an invention Auto Rewinding machine (Registered date: Dec.22, 2014 Korea Patent No. 10-1477463) (Title of Invention: Dual Rewinding machine for chip carrier tape) | |
| Mar.2017 | Obtained Patent an Invention Splice Tool-Stapler Type (China Patent No. ZL 2013 1 0110397.5) | |
| Apr.2017 | Complete Improvement and started world-wide sales for Dual Auto Rewinding machine 3 Kinds (DAR-1313/1322/2222) | |



PATENT

Single Splice Device
(CSS-011)



PATENT

Double Splice Device
(CSD-011)



Swing Splice Device
(CSW-010)



Splice Tool-Stapler Type
(CST-010)

PATENT



PATENT

Splice Clip-Reel type
(ESC-010)



PATENT

Splice Clip-Frame type
(PSC-010)

Splice Tape
(EST-S08~S24)



Pitch Scissors
(EPS-020/EPS-011)



Dual Splice Device
(CSD-020)

Splice Tool-Stapler Type **PATENT** (CST-010)

Splice Tool-Stapler Type

- Apply in all kinds of SMT material (Paper or Emboss Reel) connecting
- Quick connecting based on handy type E
- Easy to install at docking station (Optional)
- Easily installing the Splice Clip
- Great of durability by heat treatment of special steel



SwingSplice Device (CSW-010)

Swing Splice Device (Stapler Splice Tool + Docking Station)

- Very Easily installing and un-installing the Stapler Splice Tool
- Using for all kinds of SMT material
- Possible to control of working position (Control height)
- Possible to Stock of Splicing consumable parts for SMT
- Easily connecting and taping of SMT material
- ※ Option : Rectangular trash case



SMT Splicing Total Solution

Splice Clip-Frame Type **PATENT** (PSC-010)

Splice Clip-Frame Type

- To connect both ends of Paper or Emboss Carrier Reel Tape
- Using for Stapler Type Splice Tool
- 20-Pitch / 1-Frame Type
- 25-Frame (500 Pitch) / 1- Plastic Case
- 8-Plastic (4,000 Pitch) Case / 1-Clip Box
- Universal & Unique Type



DualSplice Device (CSD-020)

Dual Splice Device (2-Stapler Splice Tool + Docking Station)

- Using for Stapler Type Splice Tool
- Application range:
 - 1) Type : Double & Single Carrier Reel Tape
 - 2) Width : 8mm - 88mm / Paper or Emboss Double Carrier Reel Tape
- Possible to Stock of Splicing consumable parts for SMT
- Very easily connecting and taping of SMT material



Pitch Scissors (EPS-020/ EPS-011)

Pitch Scissors

- To cut starting point of splice clip out & to precisely cut the margin of Paper or Emboss carrier tape out
- Kinds:
 - 1) EPS-020 :Dual pitch type for carrier tape w/t 8~24mm(Max.32mm)
 - 2) EPS-011: 4mm one-pitch type for carrier tape w/t 8~56mm



Splice Tape (EST-S08~S24)

Splice Tape

- Easily detachable sticker type- one sheet & half split
- Easy use as installed into tape pocket
- Super powerful adhesiveness.
- Quantity & kinds: 800pcs/Roll (EST-S08/ S12 /S16 /S24)

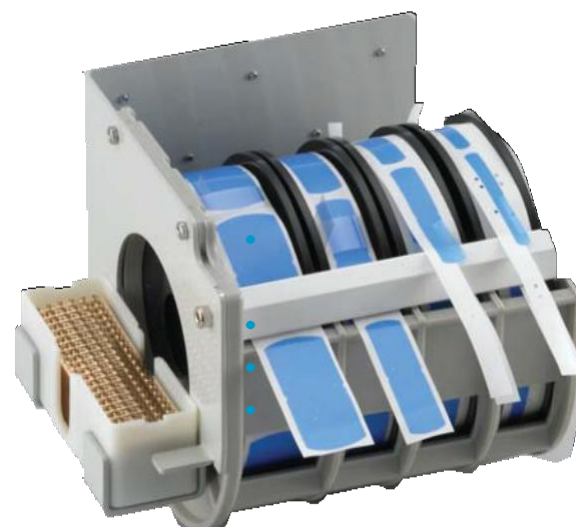


SMT Splicing Total Solution

Splice Pocket For Tool (UTP-010)

Splice Pocket For Splice Tool

- Stock of Stapler Splice Clip & Splice Tape
- Easy to attach & detach by magnet Super powerful adhesiveness
- Quantity : Splice tape 800pcs/Roll, Spliceclip-frame 500pitch/Case



Blade Damage vision Inspector For Squeegee (BDI-350)

Blade Damage vision Inspector

- Dual Vision Camera Measurement
 - Max. Squeegee Size 350mm
 - In order to adopt a normal bolt type squeegee as basic standard, the holder of Vision Inspector is designed as general type (standard product)
- NG/OK-Consolidate Programs Application
 - Notebook Program Control
 - Customer Standardization Inspection Possible by Sensitivity Adjusting
 - Cost Reduction by decreasing defect



Dual Auto Rewinding Machine(DAR-1313)

Dual Auto Rewinding Machine

- Auto Rewinding 7" reel to 13" reel (Max 15").
- Low operating cost by less splicing and increased productivity
- Convenient work with reversible control
- All-in-one Rewinder & Splice Tool-Stapler Type mounted.
- Compatible with both Paper and Emboss reel.
- Features : 1) Single& Dual Rewinding Possible
Single mode: 7" reel to 13"
Dual mode: 2x7" reel to 2x13" reel
2) High Speed & Precision Auto Operation
- Select Mode : 13" reel /22" reel
Paper/Emboss



8mm Reel Stand22" [RS8-022/RS2-022]

8mm Reel Stand22 "

- Loading Reel after rewinding (15"/22")
- Used for Chip Mounter
- Caster with built-in Brake applied
- Useful structure to fix & Move
- Model/Loading Q'ty
-RS8-022 : 8 sets (15"/22" Reel)
-RS2-022 : 2 sets (15"/22" Reel)

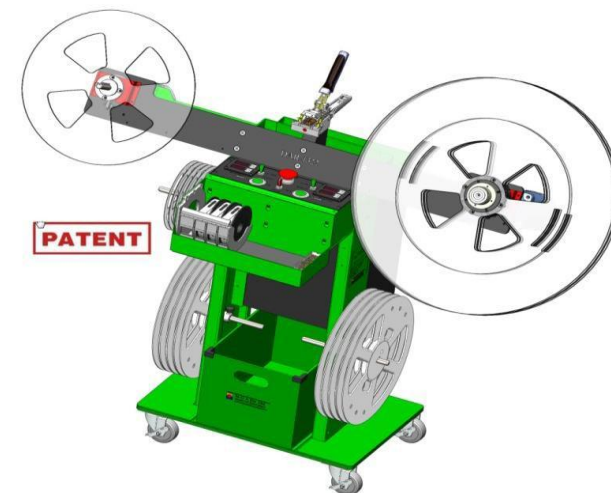


SMT Splicing Total Solution

Dual Auto Rewinding Machine(DAR-1322)

Dual Auto Rewinding Machine

- Auto Rewinding 7" reel to 13" reel (Max 15")
13" reel (Max 15") to 22" reel
- Low operating cost by less splicing and increased productivity.
- Convenient work with reversible control
- All-in-one Rewinder & Splice Tool-Stapler Type mounted.
- Compatible with both 8mm Paper and Emboss reel.
- Features : 1) Only Single Rewinding Possible
-Single mode: 7" reel to 13" reel
13" reel to 22" reel
2) High Speed & Precision Auto Operation
- Select Mode : 13" reel /22" reel
Paper/Emboss



8mm Vacant Reel [EBR-015/022]

8mm Vacant Reel

- Specially Designed Reel
for Dual Auto Rewinding Machine
- Model (MOQ: 5 sets per model)
-EBR-015 : 15" Vacant Reel (Ø380mm x 17mm)
Used for emboss reel
-EBR-022 : 22" Vacant Reel (Ø580mm x 17mm)
Used for paper/emboss reel

