

# PRODUCTPORTFOLIO



(1) DI/LDI and AOI Automation

(2) Targeting

(3) Further Process Automation Solutions

(4) Loading and Unloading

(5) Storage and AGV Solution

(6) DMC Product Tracking

(7) Other Automation Systems

(8) Multilayer Edge Treatment

(9) Dry Film Lamination

(10) Vacuum Lamination

(11) Cover Sheet Removal – Peeler

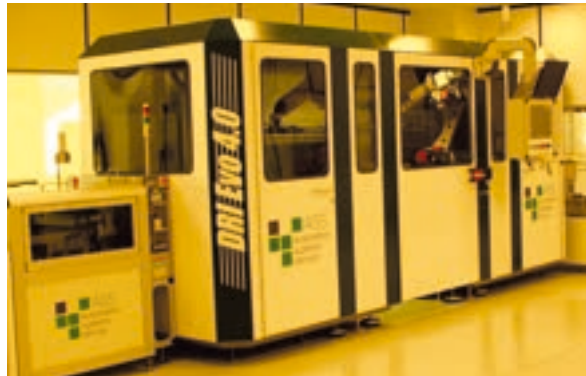
(12) Soldermask Spray Coater

(13) Auxiliaries

## 1. DI/LDI + AOI Automation

### Inline Automation DRI

- 2 x 6-axis robot solution
- Capacity >2 panels/min



### Stand-alone Automation DRS

- Capacity >2 panels/min
- 4 ports for either L-racks or horizontal boxes



### Automation for Soldermask DRS-L

- 2 Ports for either slot cassettes or L-racks
- 2 x 6-axis robot solution



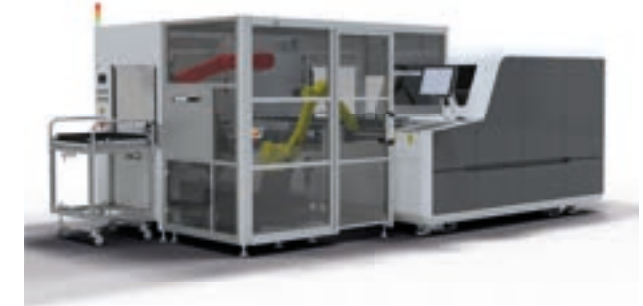
### Double DI/LDI + AOI Automation QRI

- Double DI/LDI + AOI Automation QRI
- Inline or standalone solution for two process machines
- Highest capacity >4 panels/min



### DI/LDI + AOI Automation - ECOLINE SLR/SUR 608

- Economic solution as standalone operation
- For L-racks and horizontal boxes



## 2. UV-Marker for Innerlayer Registration TIR24

### Targeting Solution TIR24

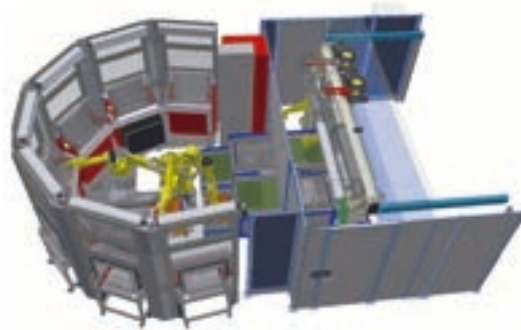
- 3 mm UV marks top and bottom
- Top to bottom UV mark congruency better 5 µm



### 3. Further Process Automation Solutions

#### Vertical Plating Line Automation

- Full automatic rack loading
- 7 ports and more possible



#### Lay-up Automation for pinning before drilling

- Flexible for different lay up strategies
- High precision positioning



#### Single Cassette Loader / Unloader Compact CL/CU

- Space saving solution
- Small panel handling for final-clean-process
- Optional with slip sheet handling



#### Double Cassette Swivel arm Loader/Unloader SL/SU

- High flexibility
- Single and double cassette design



### 4. Loader / Unloader Solutions

#### Linear-Axis Loader / Unloader HS21

- Horizontal automation by linear axis



#### Single Cassette Loader / Unloader with 6-Axis Roboter - Roboload

- 6-axis robot solution for flexible applications





## 5. Storage and AGV Solutions

### Box Loader /Unloader for 1 or 6 boxes BL / BU

- For flexible applications
- Optimal with space saving slip sheet handling



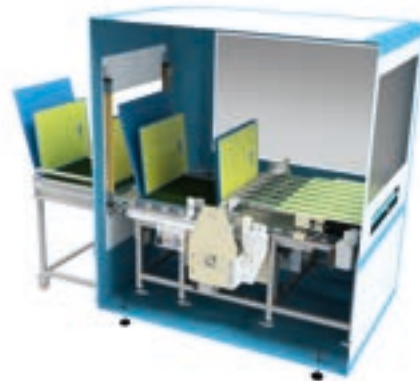
### Final Clean Loader / Unloader CLS / CUS

- Horizontal loading and unloading for final clean automation
- Panel sizes from 100 x 100 mm



### Slot Cassette Automation SC

- For different slot widths
- Slot cassette buffer solutions (optional)



### LIFO (Last-In-First-Out) Buffer SB503

- Upto 20 innerlayer and outerlayer buffer



### FIFO (First-In-First-Out) Buffer 20s

- Economic and space saving solution
- Upto 20 innerlayer and outerlayer buffer



### FIFO (First-In-First-Out) Buffer SLC20+

- 20 – 50 innerlayer and outerlayer buffer
- Individual panel tracking possible



### Automatic Guided Vehicles (AGV)

- Smart connection between processes and offline buffer solutions



### WIP (Work In Process) Storage Systems

- Smart material storage solution
- Material tracking included



### Material Logistic System MLS

- Smart Material Buffer solution with upto 1.000 storage places
- Inline connection with production line
- Incoming material control



## 6. DMC Product Tracking

### Laser DMC printer

- Process resistant DMC application
- Legible throughout subsequent processes
- Laser-safe enhoused



## 7. Further Automation Solutions

### Diverter ST103

- Right, left and throughfeed operation
- Smooth automatized angular transfer



### Rotating Station (90 or 180°) ST201

- Smooth and safe rotation by +90° or 180°



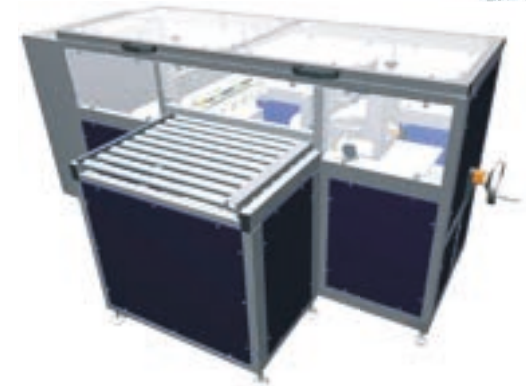
### Panel-Turn-Corner Station PCT

- Angular transfer by keeping the leading edge



### Edge Milling Machine KF650

- Economic semiautomatic solution



## 8. Multilayer Edge Cutting

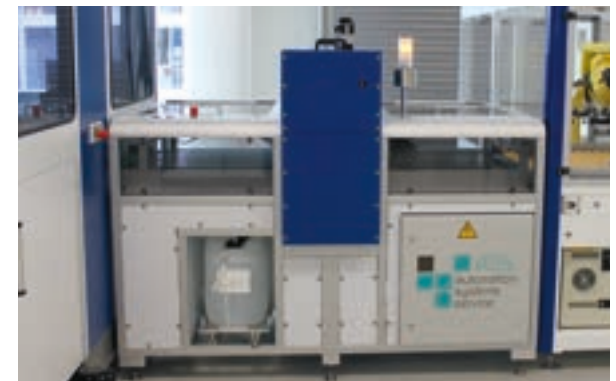
### Robocut RC1

- Capacity: 1000 panels/22h



### Dry Cleaning behind Edge Cutting

- Efficient panel cleaning behind edge treatment



### Robocut RC2

- Capacity: 2000 panels/22h



## 9. Dry Film Lamination

### Automatic Cutsheet Laminator SmartLam 5200

- The ultimate high productivity solution for a wide range of panel thicknesses



## Manual Laminator ML3124 PH1 and more

- The economic solution for all different kinds of application



## 10. Vacuum Lamination Equipment

### Vaccumapplicator VA7224-HP7 and more

- Upto 7 bar pressure



### Automatic Vaccumlamination Line RTR MVC24 S2 and more

- Flexible line layout for all types of material



## 11. Cover Sheet Remover - Peeler

### Cover Sheet Remover CSR 2730

- No panel thickness adjustment required
- Adjustable knurling pressure



## 12. Soldermask Spray Coater

### SmartSpray SA24 S2 and more

- Ideal for small and medium sized production requirements with frequent product changeovers



## 13. Auxiliaries

- L-Racks, Horizontal Boxes, Trolleys and Slip Sheets – also in ESD-execution





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## Notes

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Automation -  
our passion