PRODUCTPORTFOLIO

(1) DI/LDI and AOI Automation	**(5)** Storage and AGV Solution	**(9)** Dry Film Lamination
(2) Targeting	**(6)** Other Automation Systems	**(10)** Vacuum Lamination
(3) Further Process Automation Solutions	**(7)** Multilayer Edge Treatment	**(11)** Cover Sheet Removal – Peeler
(4) Loading and Unloading	**(8)** Soldermask Inkjet	**(12)** Soldermask Spray Coater

1. DI/LDI + AOI Automation

Inline Automation DRI

- 2 x 6-axis robot solution
- Capacity >2 panels/min
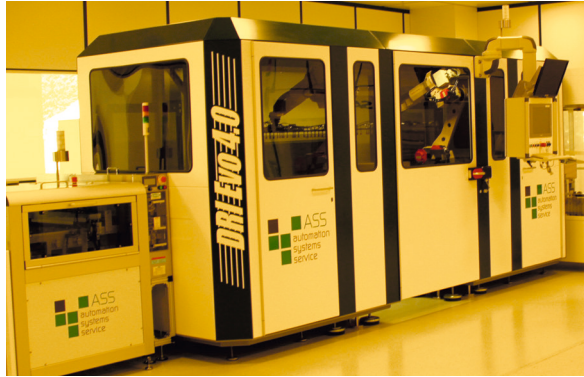
Stand-alone Automation DRS

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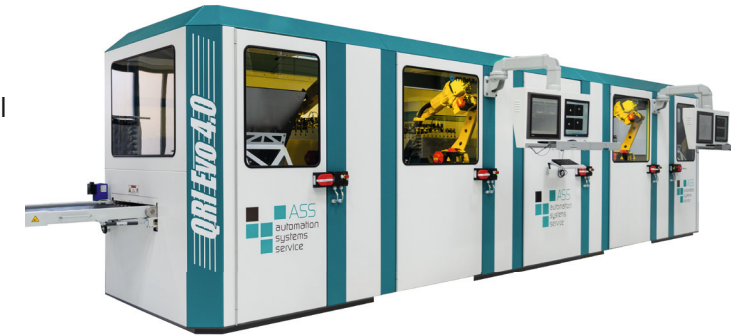

Automation for Soldermask DRS-L

- 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
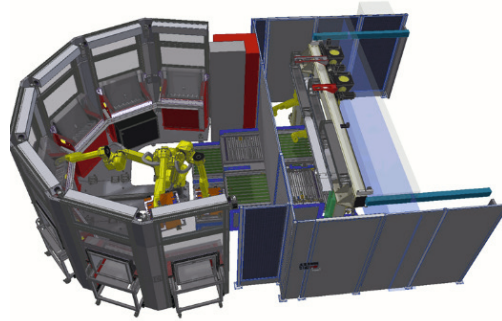
Targeting Solution TIR24

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

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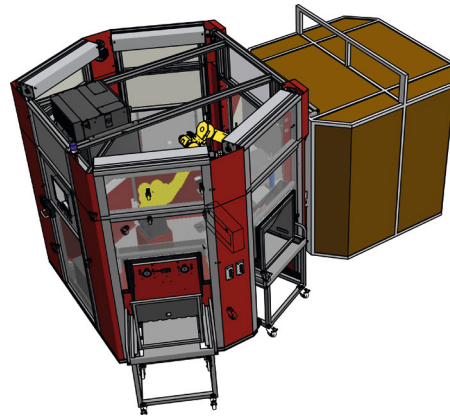
3. Further Process Automation Solutions

Vertical Plating Line Automation

- Full automatic rack loading
- 7 ports and more possible

Lay-up Automation for pinning befrore drilling

- Flexible for different lay up strategies
- High precision positioning

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

- 6-axis robot solution for flexible applications
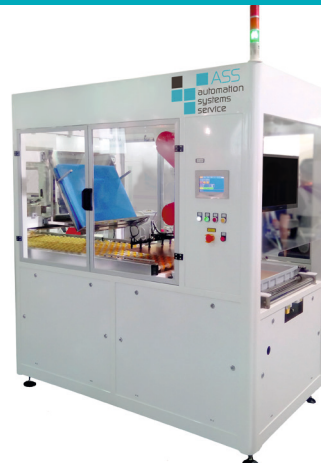
Double Cassette Loader / Unloader SLUR 128

- 6-axis robot solution for continous operation

4. Loader / Unloader Solutions

Single Cassette Loader / Unloader with 3-Axis Roboter SLUR 246

- Economic 3-axis robot solution
- Tranferable for L-racks and horizontal boxes

Linear-Axis Loader / Unloader HS21

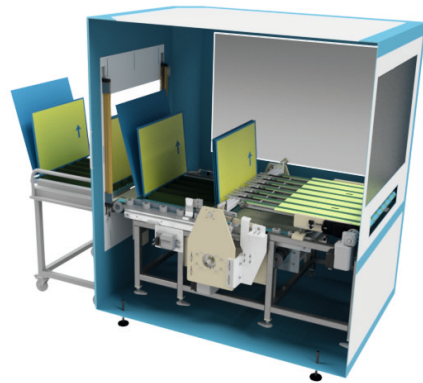- Horizontal automation by linear axis

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Final Panel Loader / Unloder ML1000

- Horiziontal loading and unloading of finsihed panels
- Panel sizes from 80 x 80 mm (smaller on request)

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

- Upto 20 innerlayer and outerlayer buffer

Slot Cassette Automation SC

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

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

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

Flip-buffer for Outerlayer Spacesaver

- Economic loader, unloader and buffer for Outerlayers

Automatic Guided Vehicles (AGV)

- Smart connection between processes and offline buffer solutions

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WIP (Work In Process) Storage Systems

- Smart material storage solution
- Material tracking included

Diverter ST103

- Right, left and throughfeed operation
- Smooth automized anguluar transfer

6. Further Automation Solutions

Double Transport Flip for innerlayer SB300

- For innerlayer and outerlayer
- Smooth and save handling

Rotating Station (90 or 180°) ST201

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

Flip Station for Outerlayer

- For outerlayer flip

Positioning Station

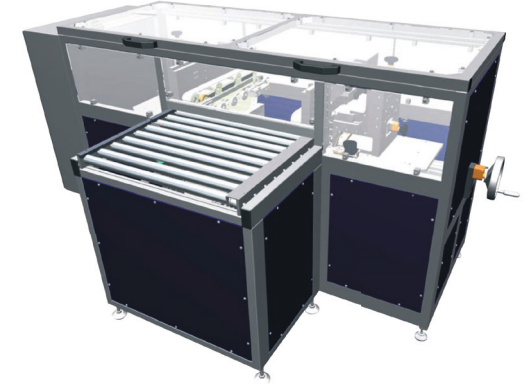- Right, left and center positioning possible

Panel-Turn-Corner Station PCT

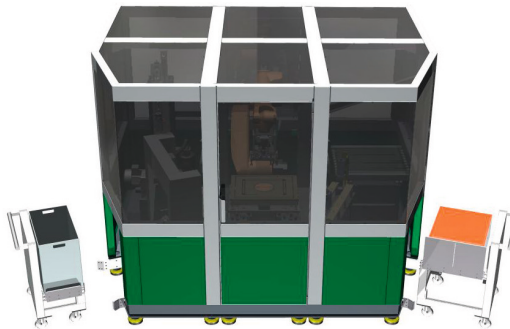- Angular transfer by keeping the leading edge

Edge Milling Machine KF650
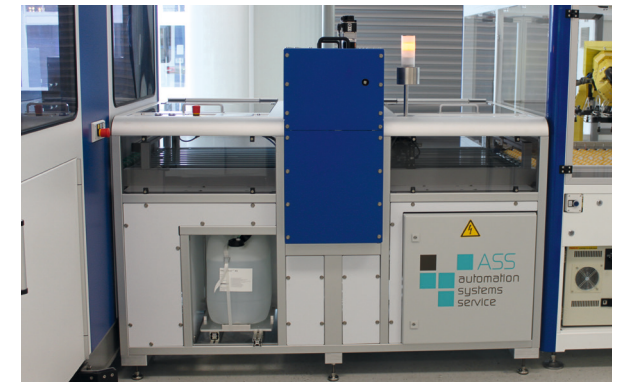
- Economic semiautomatic solution

7. Multilayer Edge Cutting

Robocut RC1

- Capacity: 1000 panels/22h

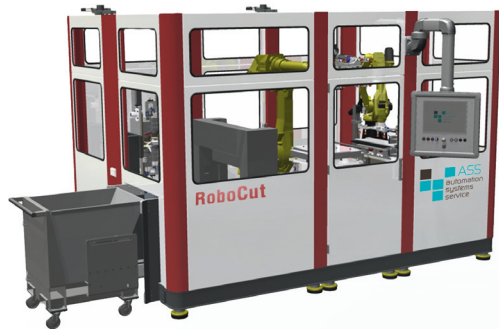## Dry Cleaning behind Edge Cutting

- Efficient panel cleaning behind edge treatment

8. Soldermask inkjet Solutions

n.jet solder mask

- The most advanced solution for digital soldermask printing

Robocut RC2

- Capacity: 2000 panels/22h

9. Dry Film Lamination

Automatic Cutsheet Laminator SmartLam 5200

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

DYNACHEM
Automatic Lamination Technologies

Manual Laminator ML3124 PH1 and more

- The economic solution for all different kinds of application

DYNACHEM
Automatic Lamination Technologies

10. Vaccum Lamination Equipment

Vaccumapplicator VA7224-HP7 and more

- Upto 7 bar pressure

DYNACHEM
Automatic Lamination Technologies

Automatic Vaccumlamination Line RTR MVC24 S2 and more

- Flexible line layout for all typs of material

DYNACHEM
Automatic Lamination Technologies

11. Cover Sheet Remover - Peeler

Cover Sheet Remover CSR 2730

- No panel thickness adjustment required
- Adjustable knurling pressure

DYNACHEM
Automatic Lamination Technologies

12. Soldermask Spray Coater

SmartSpray SA24 S2 and more

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

DYNACHEM
Automatic Lamination Technologies

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Notes

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