
SEMICONDUCTOR SUBSTRATE PANEL HANDLING EFEM

A Hitachi Group Company



JR AUTOMATION®

KEY FEATURES

PROVEN RELIABLE DESIGN WITH LARGE INSTALL BASE

Provides condensed lead time
Designed to meet required run rate, process tool accessibility and factory floor space requirement

CUSTOMIZABLE FOR SPECIFIC USER NEEDS

Can be tied directly to a process tool OR be used as a stand-alone lot sorter transfer tool
No NRE Costs for Customization - we partner with customers to take on design and customization costs

UP TO 600MM X 600MM PANEL HANDLING CAPABILITIES

COMPLIANT WITH SEMI AND OTHER CRITICAL STANDARDS

AVAILABLE WORLDWIDE

CUSTOMIZATION OPTIONS

Single lane/dual lane conveyor

Rotate modules

Flipper modules

Multiple load ports

Heaters

Chillers

Handoff to multiple process modules within a process tool

Remote air modules to match process equipment environment

Added vision for increased accuracy

WE OFFER EFEM PRODUCTS THAT ARE CUSTOMIZABLE IN MANY WAYS, BUT INCLUDE THESE SEVEN STANDARD FEATURES:

PRE-ALIGN MODULE

Module Handoff to FOUNDRY/process tool with +/- 1mm accuracy

Vision systems for CCL notch and bottom/top T7 marks

PANEL ROBOT EOAT

+/- 0.1 mm positioning repeatability

SUBSTRATE HANDLING CAPABILITIES

Cu core, glass core, glass

UNI-FOUP HANDLING

LOT SORTATION CAPABILITY

SINGLE WIRE COMMUNICATION CAPABILITY





EXTENSIVE STANDARDS ADHERENCE

FULL LISTING OF STANDARDS COMPLIANCE

SECS-GEM (GEM 300)

SEMI E84, E181, E181.1, E181.2, E47,
E115.1, E30, E37, E37.1, E5, E116, E40,
E40.1, E90, E90.1, E94, E94.1, E87,
E87.1, F47, S2, S8

IPCSMEMA 9851

Hermes

NFPA 79

SUPERIOR CLEANROOM CAPABILITIES

Meets CLASS 10/ISO 4
classification standards

Max 10 particles $>0.5\mu\text{m}/\text{ft}^3$



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LEARN MORE

SOLUTIONS@JRAUTOMATION.COM

JRAUTOMATION.COM

NORTH AMERICA 1 (833) 800-7630

EUROPE +33 (0) 3 81 26 71 71

ASIA +65 6671 4899

