

SelectiveRIDER™

PROCESS PRECISION FOR SELECTIVE SOLDER REPEATABILITY

Selective RIDER™

The SelectiveRIDER™ is a measurement pallet designed to capture parameters from the selective solder process and collect machine data for repeatability. It uses the SuperM.O.L.E.™ Gold 2 profiler as the data collection device, and a dedicated environment in MAP software for analysis and SPC. It captures: fountain height, fountain X/Y accuracy, fountain diameter, solder temperature, maximum preheat, Delta T at contact, Flux penetration, and Fluxer X/Y accuracy.



www.ecd.com/selectiverider

Thermal	
Max Preheat Temp:	110.3 °C
	20.5 °C
	272.4 °C

CAUTION
SURFACES MAY BE HOT
COOL TO ROOM TEMPERATURE BEFORE USE

PROCESS DEVELOPMENT & VALIDATION
MACHINE QUALITY MANAGEMENT
USER INTERFACE ANALYSIS & OPTIMIZATION
COMPONENT DRY STORAGE

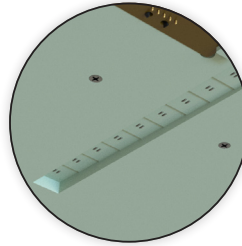
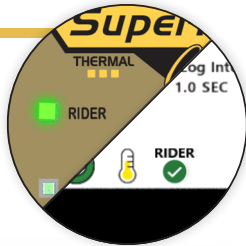
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FEATURES

RIDER INDICATOR

The Rider LED indicates when SuperM.O.L.E.™ Gold 2 is properly connected to the SelectiveRIDER™ test pallet. And when connected to a M.O.L.E.™ EV6, a “RIDER” symbol appears on the display. This also automatically sets the M.O.L.E.’s configuration.



HEIGHT SENSOR

Measures fountain height as referenced from the bottom of the pallet.

MINI FLUXOMETER™

Included with the kit are two test mesh types; V-Gauge (Vernier) and UP (Uniformity & Penetration) along with three types of test paper.

V-Gauge Mesh Measures:

- Dispense accuracy (X and Y)
- Indicates blocked/unprimed spray head
- Confirms dot size
- Illustrates under/overspray

UP Mesh Measures:

- Accuracy of flux application patterns and uniformity
- Flux hole penetration



DYNAMIC X/Y SENSOR

Measures both X and Y position from target center in addition to fountain diameter while touching the bottom of the pallet.

THERMAL BARRIER

Easy docking and automatic configuration through built-in barrier technology.

M.O.L.E.™ MAP SOFTWARE

Dedicated environment with both data tables and visual cues to help analyze how the selective solder machine is performing. It automatically manages data and can create and calculate both X-Bar-R charts and Cp CpK values. Easy to use with little to no configuration needed.



SELECTIVERIDER™ SYSTEM

[ECD P/N: E60-7353-05]



KIT INCLUDES:

- SelectiveRIDER™ Pallet
- Dynamic X/Y Sensor
- Mini Fluxometer™ (V-Gauge & UP)
- Test Paper (IPA, Neutral PH & Low PH)
- M.O.L.E.™ MAP Software
- Quick Reference Guide
- Carrying Case
- 1-year warranty on materials and workmanship



Engineering Process Control Solutions for Over 50 years

SPECIFICATIONS

PALLET MEASUREMENTS

1. Max Pre-heat / Delta T
2. Fountain Temperature
3. Fountain X/Y Position / Diameter
4. Fountain Height
5. Dwell Time
6. Flux Deposition / Uniformity

MEASUREMENT ACCURACY

Dynamic:

X/Y Fountain Position Accuracy:

- Range: 0 mm – 5.5 mm in $\pm X$ and $\pm Y$ Coordinates
- Accuracy: ± 0.5 mm
- Resolution: 0.1 mm

Fountain Diameter:

- Range: 3 mm to 12 mm
- Accuracy: ± 0.5 mm
- Resolution: 0.1 mm

Fountain Height:

- Range: 0 mm to 6 mm
- Accuracy: ± 0.5 mm
- Resolution: 0.5 mm

Dwell Time:

- Accuracy: ± 0.01 Sec
- Resolution 0.1 Sec

Thermal:

Top Side Max Preheat

Top Side Delta T

Fountain Temp

- Accuracy: ± 1 °C
- Resolution: 0.1 °C

* Special Limits of Error K-Type thermocouple wire
($\pm 1.1^\circ\text{C}$ or 0.4%, whichever is greater)

PHYSICAL

Length: 300 mm [11.8 in.]

Width: 200 mm [7.87 in.]

Height: 35.4 mm [1.39 in.]

Weight: 1.72 kg [3.78 lbs]

Max. Operational Temperature (Pallet): 300°C [572°F]

COMPLIANCE



WARRANTY

1-year parts and labor

WEBSITE

www.ecd.com



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