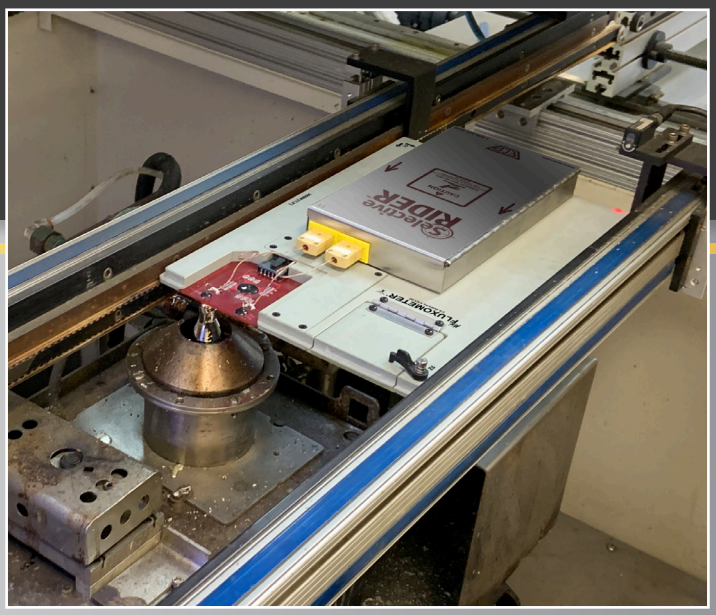
SelectiveRIDER™

PROCESS PRECISION FOR SELECTIVE SOLDER REPEATABILITY

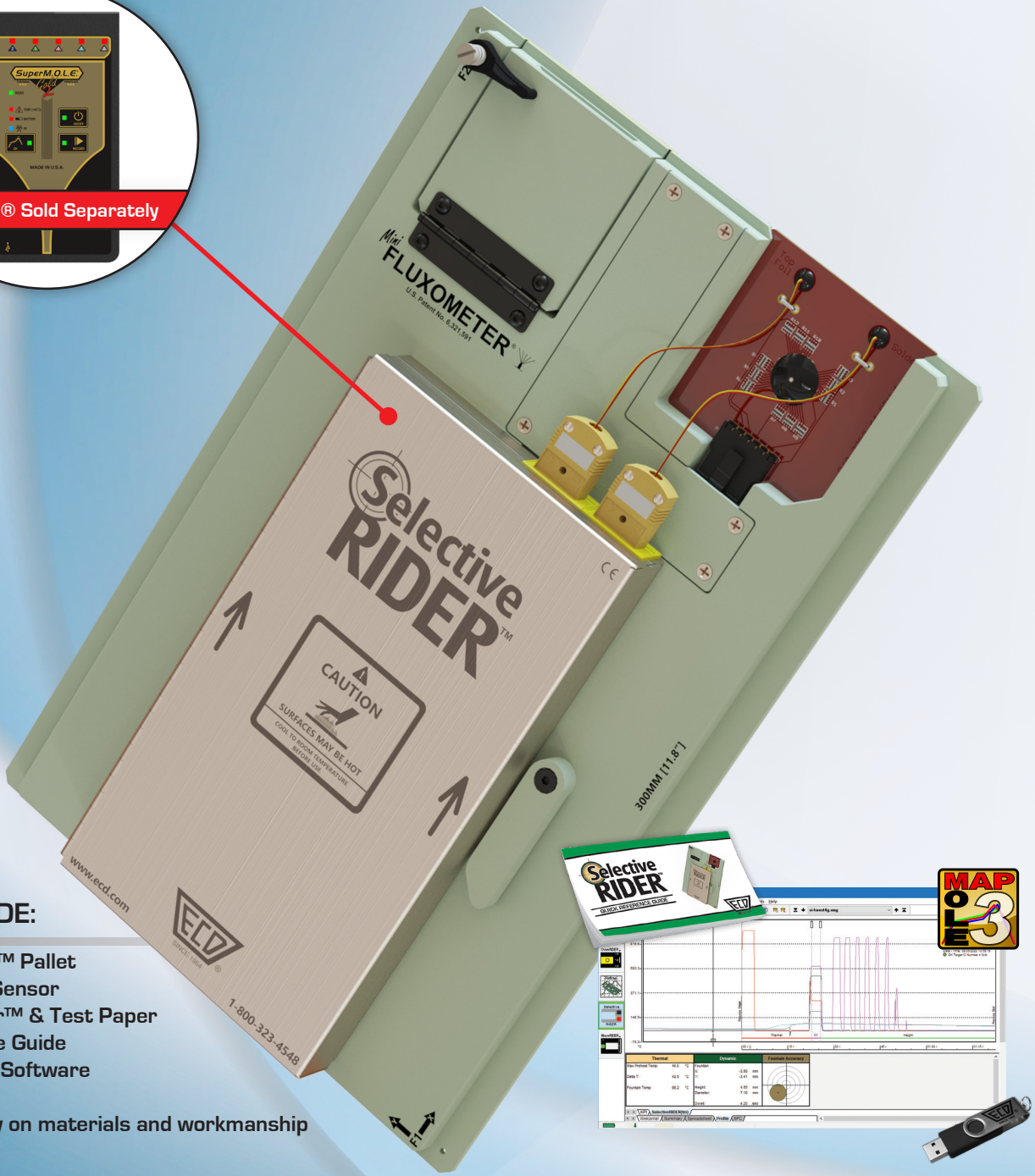


The SelectiveRIDER™ is a measurement pallet designed to capture parameters from the selective solder process and collect machine data for repeatability. It uses the SuperM.O.L.E.® Gold 2 profiler as the data collection device, and a dedicated environment in MAP software for analysis and SPC. It captures: 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

ELECTRONICS FOOD/BAKING SOLAR INDUSTRIAL

Verification, Repeatability, Traceability, and Maintenance

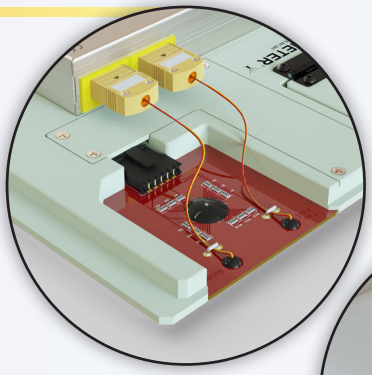


KITS INCLUDE:

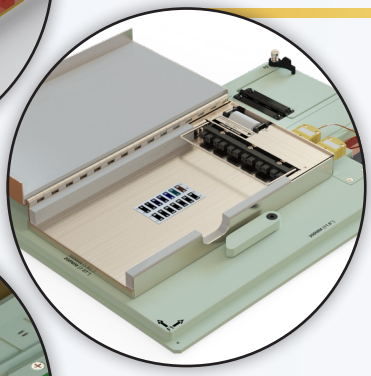
SelectiveRIDER™ Pallet
X/Y Accuracy Sensor
Mini Fluxometer™ & Test Paper
Quick Reference Guide
M.O.L.E.® MAP Software
Carrying Case
1-year warranty on materials and workmanship

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.



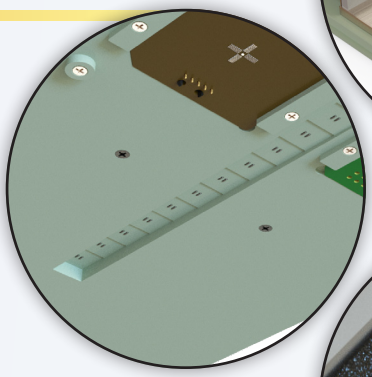
THERMAL BARRIER



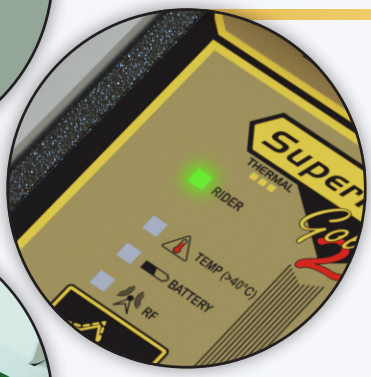
Easy docking and automatic configuration through built-in barrier technology.

HEIGHT SENSOR

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



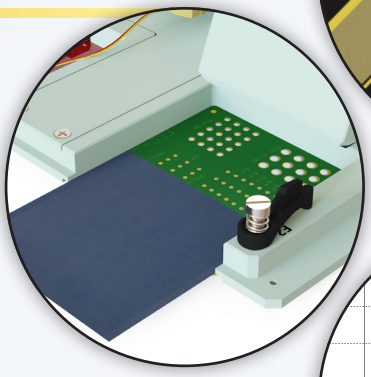
RIDER LED



The Rider LED indicates when SuperM.O.L.E.® Gold 2 is properly connected to the SelectiveRIDER® test pallet which automatically sets the M.O.L.E.®'s configuration.

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.



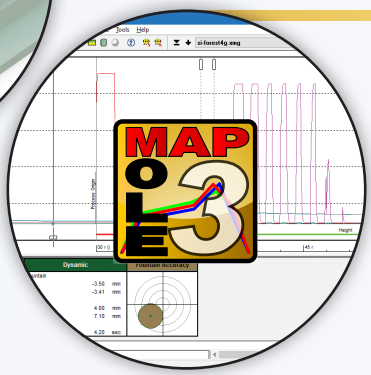
V-Gauge Mesh Measures:

- 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

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.

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 ±X and ±Y Coordinates
- Accuracy: ±0.5 mm
- Resolution: 0.1 mm

Fountain Diameter:
- Range: 1.5 mm to 11 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 (± 1.1°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]

WARRANTY

1-year parts and labor

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