

Product Information

SO2X00 Monobowl

Rasco
A Cohu Company

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REQUIREMENT: HIGHER EFFICIENCY AND COST REDUCTION

The standard SO2000 and SO2800 Handler platform provides several input options: Automatic and manual tube loading, metal magazine loading as well as loading by 2 bowl feeders left and right.

In order to increase the contact site efficiency and thus reduce the cost of test, a monobowl loader has been designed especially for handling small devices, e.g. QFN and SO.

SOLUTION: MONOBOWL LOADER

Principle: 1 bowl feeder instead of the 2.

The devices are loaded into one bowl feeder, which is symmetrically feeding the two input tracks. This guarantees a **constant throughput** and thus a **better tester efficiency** (quad site efficiency).

The monobowl option is available for all QFN packages from 1.5 x 1.5 mm up to 7.0 x 7.0 mm and in process for all SO packages from 49 to 138 mil.

The Rasco Vision System for **orientation check is included** in the standard version (multiple template for device orientation). The pin 1 detection with only one camera is made optionally via pad/lead geometry or via marking depending on the application. The camera has to be converted according to the orientation check method.

An **ionizer** in the bowl is integrated **to avoid electrostatic charging** of the devices.

Another new standard feature in the input area of the handler is the so-called **hopper**, which is an additional filling box **for continuous re-filling** of the devices into the bowl loader. The hopper has been designed especially for high volume handling to avoid down-times because of empty bowl loader. A sensor recognizes if the bowl has to be refilled by the hopper.

CUSTOMER BENEFIT: ONLY 1 BASE SYSTEM FOR QFN AND SO DEVICES

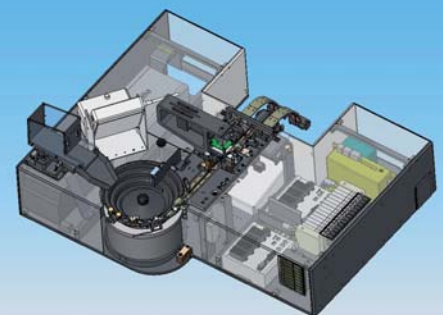
- Handling of leaded and leadless packages on the same base system (with two conversion kits and add-on)
- Higher contact site efficiency and higher performance
- Significant jamrate improvement due to reduction of handling units
- 50% less complexity and adjustment requirements for higher operator convenience
- Easy teaching by Rasco Vision System
- Orientation check either by marking or by pads
- Price reduction mono bowl module 33% compared to a dual bowl input



Monobowl assembly with covers

Specification

Throughput (max.)	12.000	UPH
Device range QFN	1.5...7.0	mm
Device range SO	49...138	mil



Monobowl assembly interior view

SALES & SERVICE

For more information please ask your local Rasco sales or service team or contact sales@rasco.de or service@rasco.de

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