



MATRIX TECHNOLOGIES PTE LTD

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Semi-Auto Die Sorter Machine Series DS8000

■ PRODUCT DESCRIPTION

The SINTEC Semi Auto Die Sorter Series DS8000 is designed with highly advanced technologies but yet competitively priced to handle 6 and 8 inches wafers. A motorized Wafer expander stretches the UV Tape to a predetermined amount to allow positive vision capture and dies pick up. Dies position will be captured by means of our proprietary vision system and will be feedback to the sturdy XY Theta table. The XY Theta table will then do the necessary positional correction to center the dies to ensure positive pick up of the dies every time.

The vision system is also capable of identifying ink dots to distinguish between 'good' and 'bad' dies. SINTEC can also provide special wafer mapping software that reads dies information directly to tell the machine which dies to be pick and sorted.

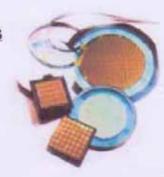
This machine is fully compliant with most industrial safety guidelines.

■ PRODUCT FEATURES

- ±0.050 mm repeatable placement accuracy (X,Y axis)
- · Machine is easy to set up and operate
- · PC based control with all the necessary safety interlock sensors
- Easy programs set-up, selection and Production Lot Change
- · Integrated solution plug and play
- · Low cost operation and ownership
- Compact size

■ OPTIONAL OUTPUT CONFIGURATIONS

- · Auto Waffle Pak Tray Stacker
- · Gel Pak
- JEDEC/ EIAJ Trays
- Tape and Reel
- · Bins or Tubes



■ Unit Specifications

Material Specification

□ Die Sizes : 1.0 x 1.0mm to 10.0 x 10.0 mm

□ Wafer size : 6 inches and 8 inches Wafers on FLEX Frame □ Trays Configuration : 2 x 2in or 4 x 4in Waffle Packs or GEL Packs

(Other packages and tray types and sizes please consult SINTEC)

Load / Unload Configuration

□ Wafer Frames : Manual Load / Unload of Wafer Frames □ Devices : Continuous Load / Unload of Waffle Packs

Vision Specification

Camera type : 256 Grey level (Standard Resolution)

Resolution : 640 pixels x 480 pixels

□ Positional Accuracy : ± ½ pixels

□ Die alignment

□ Ink Dot recognition

◆ Pick and Place Specification

□ Bond force : 30 to 1000g
□ Placement Accuracy : ±50μm
□ Die Accuracy : ±3°

■ Performance Specification

 MTBA
 >
 60 min

 MTBF
 >
 500 hours

 MTTR
 <</td>
 1 hour

 MTTA
 <</td>
 5 min

 Machine UPH
 ~
 4000

 System down time
 <</td>
 2%

 Conversion time
 <</td>
 30 minutes

Note:

Machine performance data may differ from different customers subjected to application studies due to materials and processes variation beyond our control.

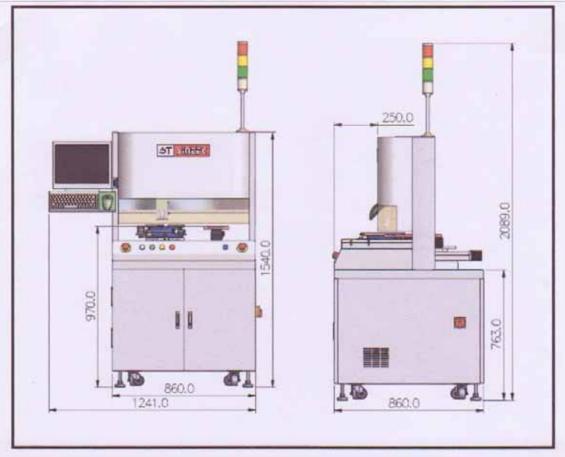
For any other die sizes and trays outside the specifications, please contact us.



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■ External Dimensions



Safety Notice: For your safety , please read the Instruction manual carefully before using the product. Specifications and appearance are subject to change without prior notice

