

# ADAT3 XF DBS Die Bonder Strip (in line)

## Application

- High Speed inline Strip to Strip Diebonder
- Solder paste power application, SO8,DPAK,SOD123/128

## Key Feature

- up to 40k uph
- Support 8" 12" wafer on Frame Film Carrier
- 100-300m stripsize
- Solderpaste/Glue
- Min diesize 0.2x 0.2 [mm]
- Max diesize 2.9 x 2.9 [mm]
- Automatic wafer change and Expander
- High throughput at high-volume manufacturing rate
- Belt in Belt out
- Full die traceability (strip E142 - wafer)
- Auto recipe download (MES interface)
- SECS/GEM interface with E142



## System accuracy

### Small die (<1mm)

XY	$1\sigma xy \leq 5\ \mu\text{m}$
Rotation	$1\sigma \phi < 1^\circ$

### Large die (>1mm)

XY	$1\sigma xy \leq 5\ \mu\text{m}$
Rotation	$1\sigma \phi < 0.3^\circ$

## Inspection Categories

<b>Program Mode:</b>	Fast programming for common reject criteria		
<b>Reject treatment:</b>	Stripmap (E142) and reject bin		
<b>Inspection View:</b>	4 cam: (1) glue (2) pre pick (3) back (4) Postbond		
<b>Inspection items:</b>	<b>Die related:</b> - top Chipping , backside Chipping - Damaged - Diesize/Die ratio - Scratch - Cracked die - Discoloration	<b>Glue related:</b> - Dropsizes - dropshape	<b>Postbond related:</b> - Die alignment (position, size, and rotation) - Glue fillet

## Imaging System

Camera	
Number of camera	4
Resolution / FOV GLUE	0.3Mp camera (3.2µm/pixel), FOV 2.1 x 1.x4 mm
Resolution / FOV PICK UP & BACKSIDE	5.0Mp camera (2.3µm/pixel), FOV 5.6 x 4.7 mm
Resolution / FOV Post BOND	5.0Mp camera (4.6µm/pixel), FOV 11.3 x 9.4 mm
Resolution / FOV SIDEWALL	(option)
Resolution / FOV Die ON FLIP	NA
Resolution / FOV POST SEAL INSPECTION	NA
POSTSEAL INSPECTION	NA
Min object detection	10µm
Lighting	Coaxial & ringlight including multicolor light

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