ASM EAGLE60/EAGLE60AP/AB339/339Eagle Specification

Dimension & Weight

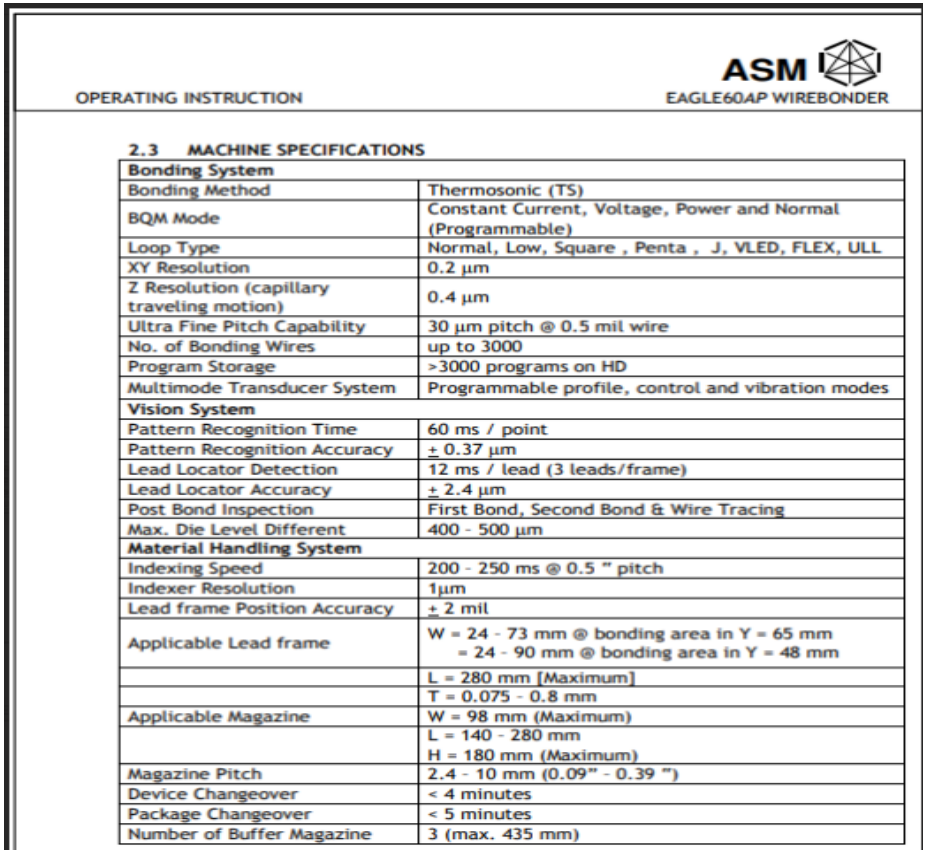
Item	Specification
Dimension	2950mm(W)×1,550mm(D)×2130mm(H)
Weight	≦ 2,700 kg

Utility

Item	Specification
Power supply	3Φ AC380V ± 10 % (50/60 Hz),6.6KVA
Air source	More than 0.5 MPa (200 liters/min)
Air inlet tube	Outer diameter: 12 mm Inner diameter: 8 mm
Vacuum source	-70 kPa (100 liters/min)
Vacuum inlet tube	Outer diameter: 12 mm Inner diameter: 8 mm
Air exhaust	Blower available at machine side exhaust capacity 1800L/min

Basic Specification

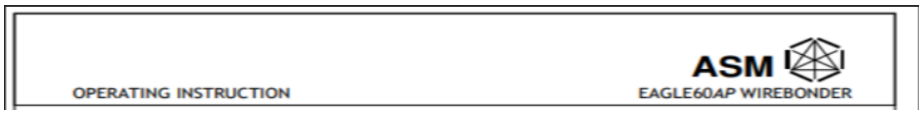
Item	Specification
Die size	0.5x1.4~10.0x30.0
Die thickness	150~700
Die placement	±50
Wafer diameter	6” (6" needs to be on 8" wafer frame)/ 8”(200mm)
Ejector height	0 ~ 2500
Pick type	Tray pick
Wafer frame	FFC with blue tape
Pick up tooling	Collet / rubber tip / push-up needle



OPERATING INSTRUCTION — ASM EAGLE60AP WIREBONDER

2.3 MACHINE SPECIFICATIONS

Bonding System	
Bonding Method	Thermosonic (TS)
BQM Mode	Constant Current, Voltage, Power and Normal (Programmable)
Loop Type	Normal, Low, Square , Penta , J, VLED, FLEX, ULL
XY Resolution	0.2 µm
Z Resolution (capillary traveling motion)	0.4 µm
Ultra Fine Pitch Capability	30 µm pitch @ 0.5 mil wire
No. of Bonding Wires	up to 3000
Program Storage	>3000 programs on HD
Multimode Transducer System	Programmable profile, control and vibration modes
Vision System	
Pattern Recognition Time	60 ms / point
Pattern Recognition Accuracy	± 0.37 µm
Lead Locator Detection	12 ms / lead (3 leads/frame)
Lead Locator Accuracy	± 2.4 µm
Post Bond Inspection	First Bond, Second Bond & Wire Tracing
Max. Die Level Different	400 - 500 µm
Material Handling System	
Indexing Speed	200 - 250 ms @ 0.5 " pitch
Indexer Resolution	1µm
Lead frame Position Accuracy	± 2 mil
Applicable Lead frame	W = 24 - 73 mm @ bonding area in Y = 65 mm = 24 - 90 mm @ bonding area in Y = 48 mm
	L = 280 mm [Maximum]
	T = 0.075 - 0.8 mm
Applicable Magazine	W = 98 mm (Maximum)
	L = 140 - 280 mm H = 180 mm (Maximum)
Magazine Pitch	2.4 - 10 mm (0.09" - 0.39 ")
Device Changeover	< 4 minutes
Package Changeover	< 5 minutes
Number of Buffer Magazine	3 (max. 435 mm)



OPERATING INSTRUCTION — ASM EAGLE60AP WIREBONDER

Barcode reader	Automatic barcode reader
ESD	as table
Wafer Handling	Automatic wafer changer
Tray handling	2, 3 & 4 inch

Vision inspection function

Item	Specification
Top side inspection	1.667 um/pixel CCD camera Fixed zoom (FOV 11X7mm)
Die Back side inspection	6.875 um / pixel CCD camera Fixed zoom (FOV 14x14mm)
Precisor inspection	1.57 um / pixel CCD camera Manual adjustable (FOV 1.3x6.8mm)

Facilities	
Voltage	110 VAC (optional 100/120/200/210/220/230/240 VAC)
Voltage Tolerance	± 10 %
Frequency	50 Hz (60 Hz Optional)
Frequency Tolerance	± 1 %
Phase	Single
Compressed Air	152 LPM max. at 3 - 6 bar
Power Consumption	1500 W
Operating Condition	
Ambient Temperature	5 ˚c to 40 ˚c
Humidity	< 80 %
Altitude	Up to 1000m above sea level
Dimensions & Weight	
Overall Dimension	720 mm (W), 800 mm (D),1600 mm (H)
Net Weight	750 kg