



Flipchip Laser Marking System

KOSES

Flipchip Laser Marking System





Multi Loader / Off loader with system

Laser capable for multiple devices

Soft Handling by Servo Motor

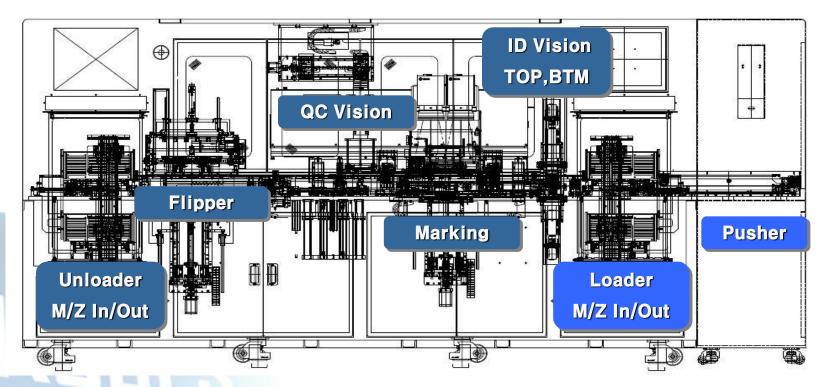
- Full Auto Device Change
- Orientation & Quality Check Vision
- System Reliability





1. Machine Layout

Flipchip Marking System



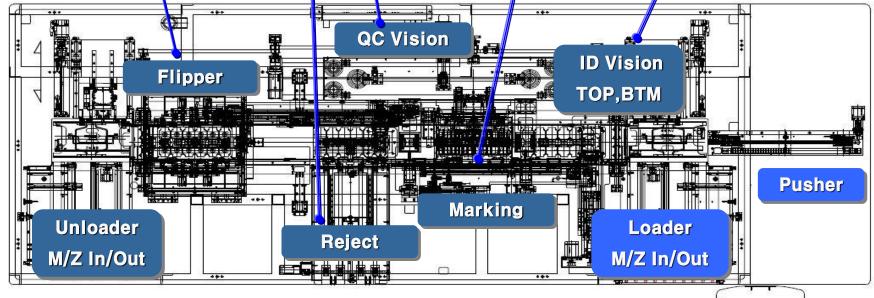






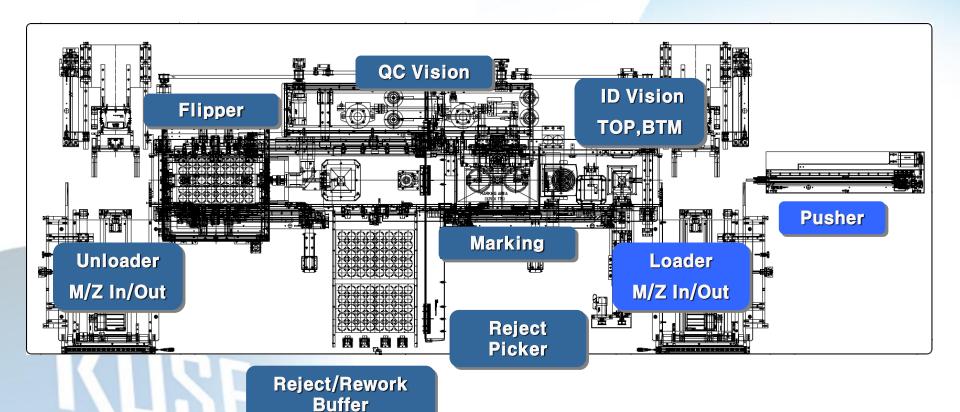
2. Machine Layout (without Sorting function)







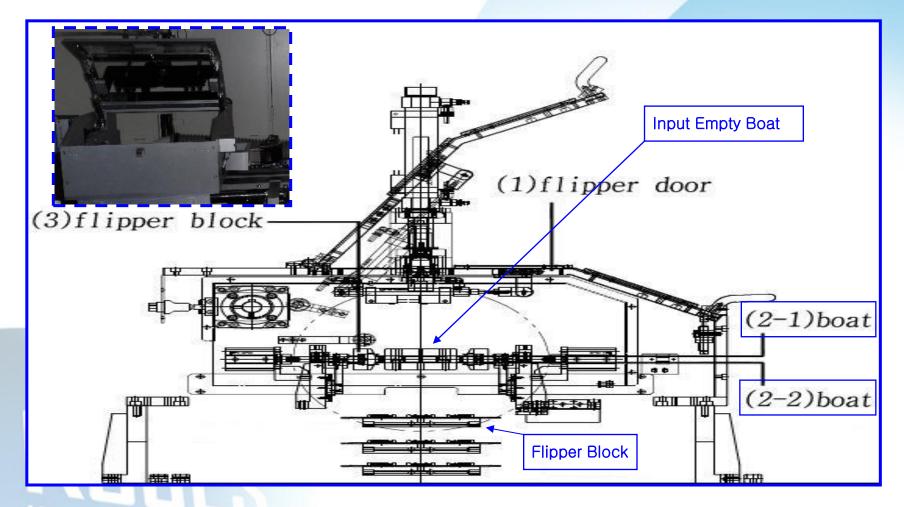
2. Machine Layout (with Sorting function)



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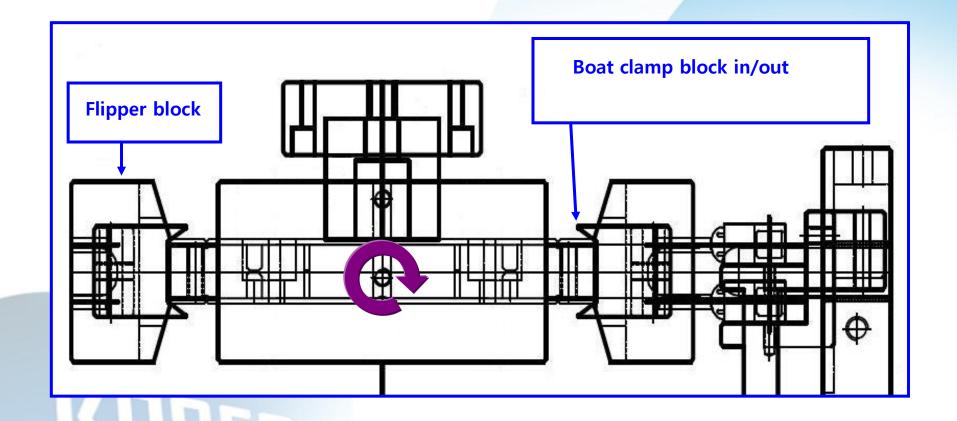




- 1. Input empty Boat(upside down) into Flipper System
- 2. After QC Inspection, Boat will be placed on Flipper Block. Flipper Block raises up the Boat



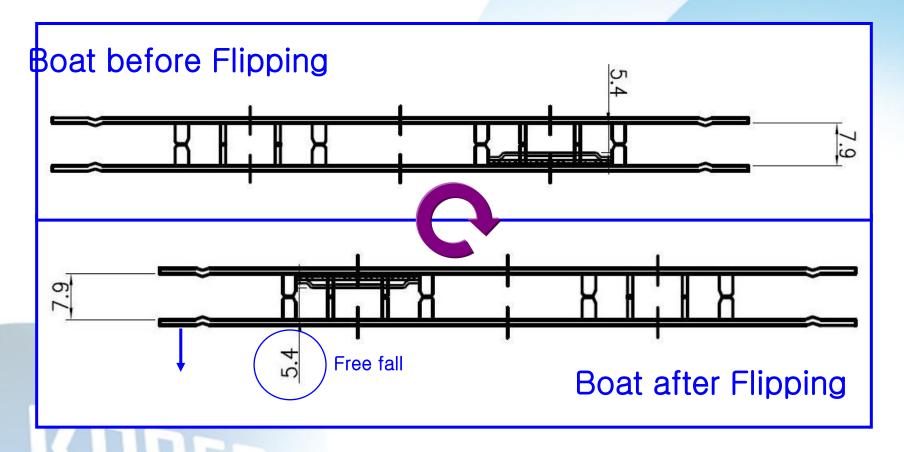




- 3. Flipper block clamp Top and Bottom Boat.
- 4. Flipper Block flips(180°) after Clamping.



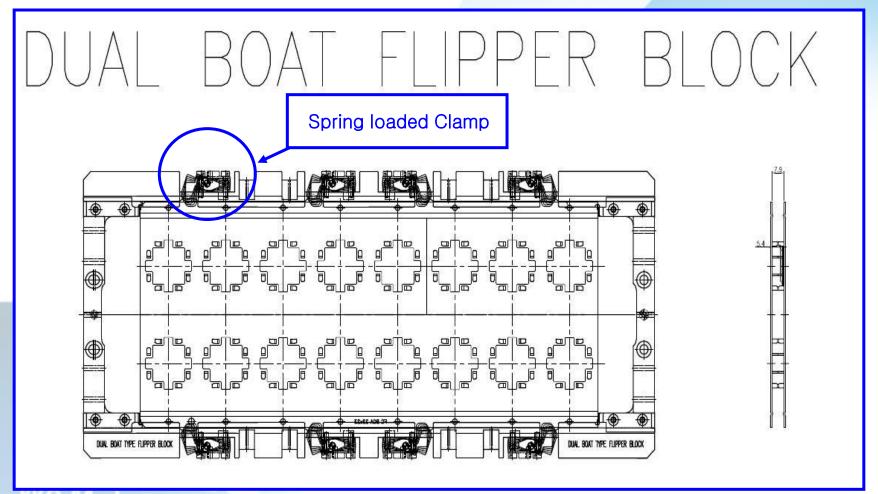




- 5. Units drop Free-fall (about 5.4mm)
- 6. Flipper Block goes down with flipped units on a boat.



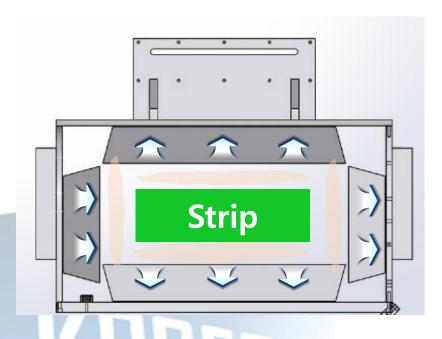




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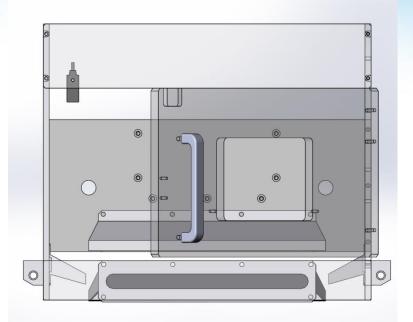


Dust Collector



4way Suction System

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Dust Part

- Composition : 4Way Suction System
- Dust Filtering with Filter
- Improved and Strong Suction System



General Specification

ltem	Specification	Remarks
PKG handling	Boat/Strip	
Application Package	Singulated PKG on Boat, Substrates	
Inspection	ID, Serial Marking Vision Inspection	
Laser	Green Laser / Wavelength = 532nm	Dual head with 2 beam using single laser source Diodepumped Nd: YAG.
UPH	3.0 K (Marking contents : Logo + Character 12digit)	
1st Pass Yield	99.98%	
Up time	99%	
MTBF	168hrs	
МТВА	4hrs	
Power	415 volts, 3 phase, 30 amps	
Compressed Air	70~90psi (5.5 bar)	
Feeding Direction	Left to Right or Opposite (Customer Option)	

