



# MMi Systems

## System & Factory Automation

MMi Systems is an advance equipment manufacturer and factory automation solution provider to the *Consumer Electronics, Data Storage, Medtech and Semiconductor industries*

With over 20 years of excellence in equipment manufacturing and IP compliance with non-infringement record, our mission is to deliver cutting edge solutions to reduce manufacturing cost and improve factory efficiency

MMi Systems helps our customers to focus on **growing** their business by providing **quality equipment & technical knowledge**

**MMi Value Adds**

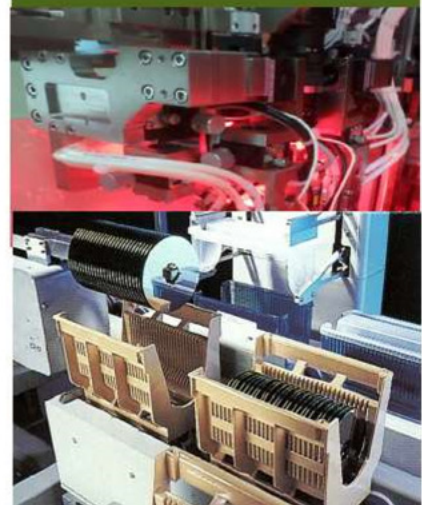
**Build to Print**

**Design and Build  
with Full Turnkey  
Solution**

**Competitive  
Pricing**

**Part Localization  
Proposal**

**Training, Spares  
and Maintenance  
Services**



# Wafer Sorter Inspection System



Designed to Deliver  
High Performance  
and Industry Leading  
Reliability Wafer  
Sort Inspection  
System

## SPECIFICATION

### Wafer Type:

- Lithium-Niobate (LN) wafers
- Lithium-Tantalate (LT) wafers
- Silicon (Si) wafers

### Wafer Size

- Wafer Ø 4" - 8"

### Wafer Thickness:

- Wafer Thickness range from 150 $\mu$ m onward

### Wafer Indexing Mode

- Rapid continuous wafer indexing

### Vision Capability

- Aligner Camera
- AOI Top and Bottom camera:
  - Edge Chip Off (from 0.2mm)
  - Hairline crack (from 0.08mm)
  - DMC/OCR reading

### Clean-Room Class

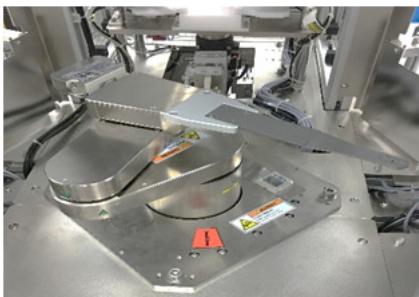
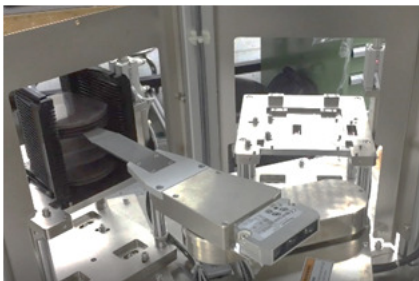
- Class 100

### Dimension & Weight

- (L) 1.1m x (W) 1.0m x (H) 1.7m
- Est. 850 kg

## Introduction

The WSI, a Four Open Cassette Wafer Sorter for 100mm through 200mm wafer sizes. It offers the most compact size with four cassettes loading for continuous operations with minimum intervention. All models come with standard robotic components for longest reliability and support. It was developed with a unique recipe development and LED beam carrier scanning for perfect wafer mapping. Each system can be tailored to your specific needs by add-on options or specific request

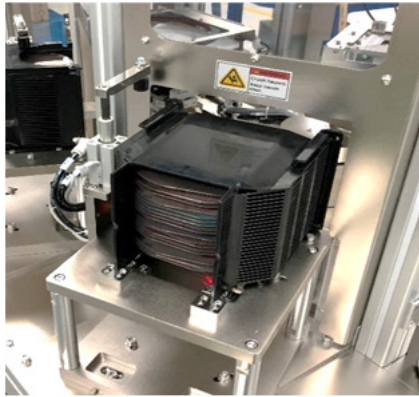


### MAIN FEATURES

Using Robotic Arm that provide speed and accuracy for sorting and placement of wafers. Our LED beam scanner offers accurate scanning during cassette mapping

- 4 stations loading capacity
- Handle Horizontal loading
- Wafer robot mounted with LED beam scanner
- Single paddle with Vacuum backside handling

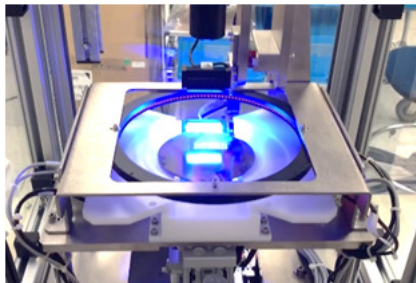




## WAFER CASSETTE MAPPING & SORTING FEATURES

Window base wafer cassette and sort recipe with easy to use GUI.

- Up to 4 stations production cassette wafer mapping status monitoring
- Mapping function able to detect cross slot, empty slot and double wafer
- After function process, both Good and Bad wafer arranged in pre-determine sequence from slot 1 to 25
- Standard ASCII and SECS/GEM reporting with Good and Bad status, slot number and wafer S/N



## OCR (Optical Character Recognition) & DMC (Data Matrix Character) Features

- Capable to read both DMC&OCR at wafer edge
- Allow wafer top side and bottom side reading
- Programmable Recipe Control

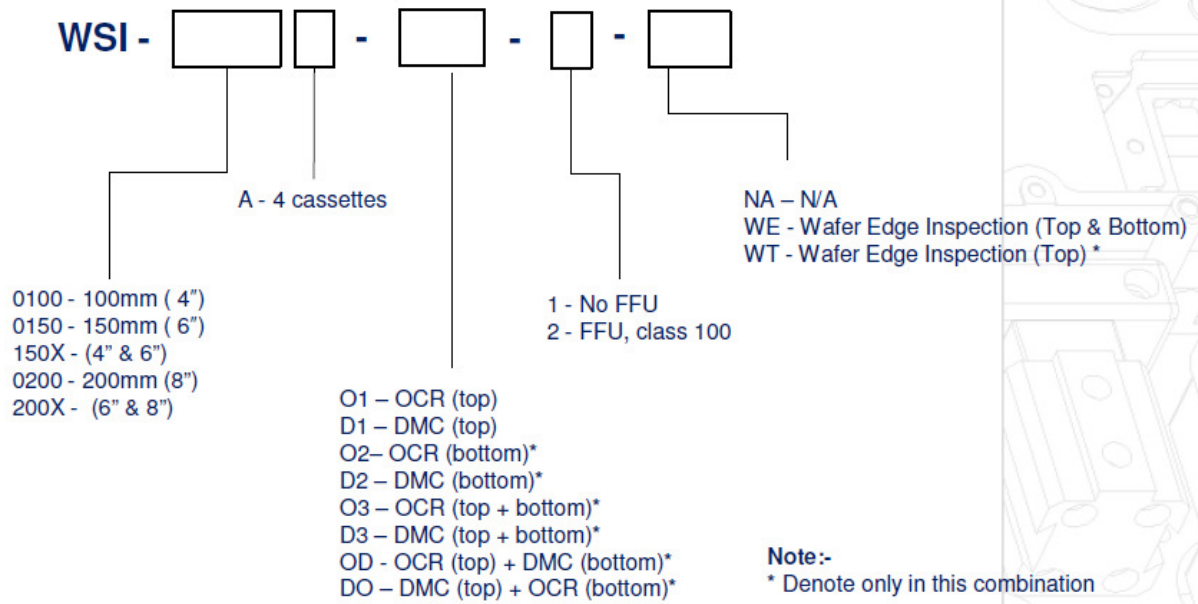


## Wafer Edge Inspection Features

- Ability to inspect common visible macro defects at wafer edge
- Capable of top and bottom wafer edge surface inspection
- Capable to add INLINE inspection to wafer sort

## System Configurator

### Model: WSI - 200XA – DO - 1 - WE



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