

Customer:

Project Name:

Date:

1. Number of Load Ports

1 Load Port 2 Load Ports 3 Load Ports 4 Load Ports

2. Load Port Requirements

- Compatible with FOUP (SEMI E47.1)
- Compatible with FOSB (SEMI M31)
- Mapping Capability
- Protrusion sensors on Load Port
- RFID Reader (Hermos or similar)
- N2 Purge Load Port
- Open Cassette Adapter

3. Port Options

Auto-doors for 4"-8" SMIF Port

4. Wafer Size

2" (50 mm) 3" (75mm) 4" (100mm) 5" (125 mm) 6" (150 mm)

8" (200 mm) 12" (300mm)

Non-standard wafer sizes:

5. Wafer substrate details

Material Thickness Weight

Temperature Other specifications

6. Throughput

Wafers per hour with zero process time

7. Frame mounting

Ballroom Through the wall

8. Sheetmetal material

- Blk Steel Zink plated, Painted
- Stainless Brushed
- Stainless Polished
- Stainless, Painted

9. Frame features

BOLTS interface(s) Perforated plates / louvers

10. Interface to process

Open EFEM back Shutter gate

11. Robot type

Single Arm Dual Arm Bottom track Side track

12. Robot Reach outside of EFEM

Yes: No:

13. Robot Repeatability

(Example: +/-25um R1, R2, Z, K; +/-0.01 degree Theta)

14. Robot End Effector

- Vacuum Grip
 Edge Grip
 Flipping
 Film frames
 Warped wafers

15. Wafer Cassette Mapping

- On Load Port
 On robot

16. Prealigner

- Vacuum Grip
 Edge Grip
 Suction Cups

17. Wafer ID Reader (OCR)

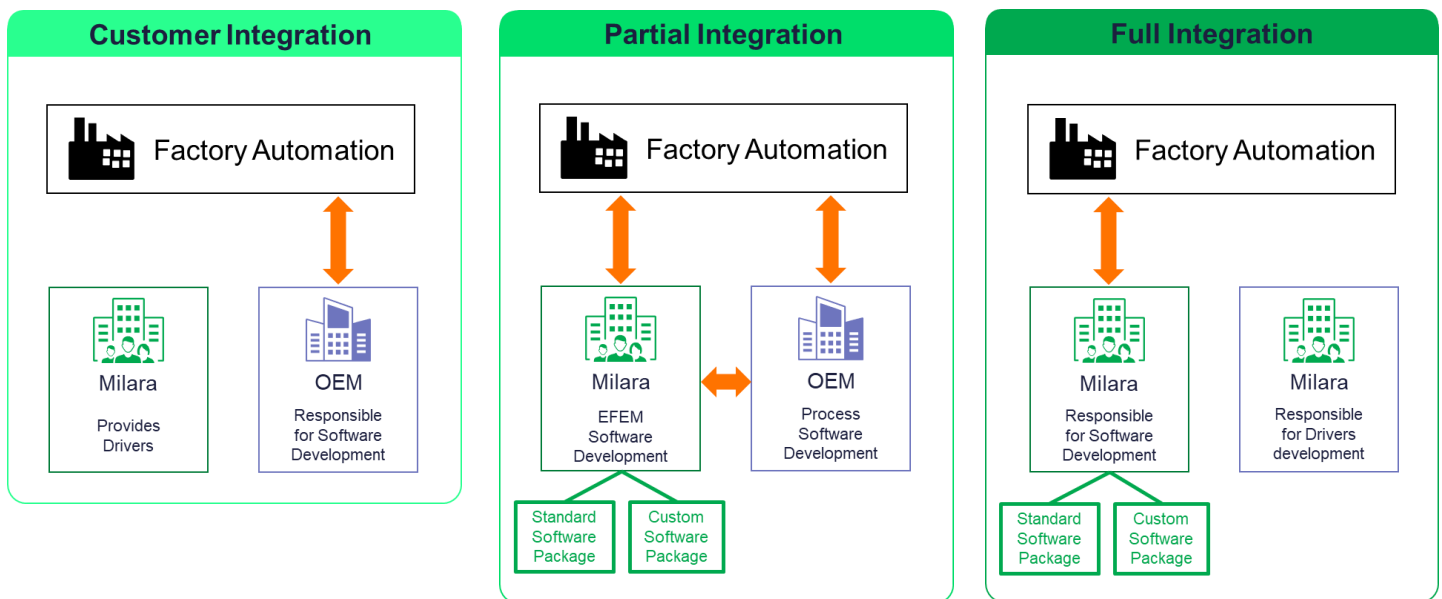
- ID on top of wafer
 ID on bottom of wafer
 ID on top & bottom

18. Carrier Bar Code Reader

- Yes: No:

19. Software

- Customer Integration
 Partial Integration
 Full Integration



20. Safety

- EMO
- E-Stop
- Interlocks on doors w/ access to robot
- Seismic brackets
- LOTO breaker
- Light curtain around Load Ports
- Internal lights (for service)
- Yellow internal lights (for Lithography)

21. Service & Maintenance

- Support agreement: On-site installation: Teach Pendant:

22. Fan Filter Unit (FFU)

- Yes: No: Type and Efficiency
Example: PTFE ULPA 99.99995%

23. Clean Room Compatibility

- ISO 1
- ISO 2
- ISO 3 (Class 1)
- ISO 4 (Class 10)
- ISO 5 (Class 100)
- ISO 6 (Class 1000)
- ISO 7 (Class 10 000)
- ISO 8 (Class 100 000)
- ISO 9 (Room air)
- Not Applicable

24. Cleanliness

- Ionizer (Keyence SJ-H or similar) 2" ports for particle probe (side door):

25. Peripherals

- Monitor Touch Screen
- Monitor Non-Touch
- Built-in monitors
- Keyboard
- Mouse
- Arm mount (Ergotron Arm or similar)
- Pull-out keyboard drawer

26. Connections

- E84 connectors on top of EFEM
- N2 purge port
- Ethernet
- RS232 Robot (Service)
- RS232 Prealigner (Service)
- Teach Pendant connector
- Source Vacuum Display
- Source Pressure Display

27. Additional Connections

(Please write any additional type of connections required)

28. Power

(Example: Single-phase 200V AC \pm 10%, 50/60Hz)

29. Current consumption

(Example: 4kVA (20A/200V AC) Including FFU)

30. Vacuum

(Example: -80kPa ~90kPa (source pressure); 40L/min (flow rate))

31. Pressure

(Example: 0.6MPa ~0.7MPa (source pressure); 20L/min (flow rate))

32. Light Tower

- Red Green Yellow Blue Buzzer

33. Other options

- Vibration isolation
- Digital scale
- Removable casters
- Adjustable feet
- Blank covers for unused Load Ports

34. If you have any other requirements or comments, please list them here: