



HP Series SEMICON BACKEND PRECISION TOOLS CLEANING

AUTOTECH SOLUTION (M) SDN. BHD.



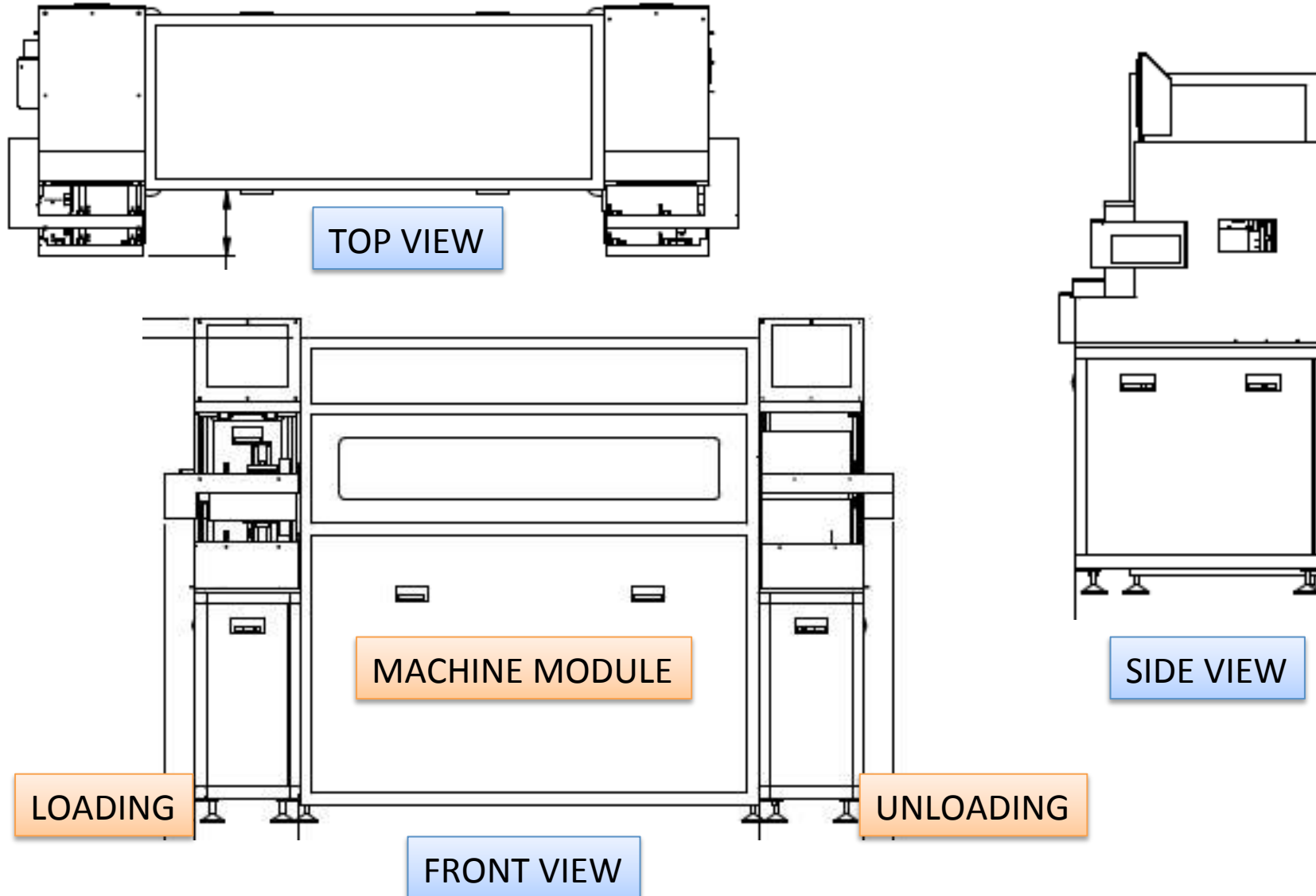
# ATSM HIGH PRESSURE AQUEOUS JET LEADFRAME & SUBSTRATE CLEANING SYSTEM

## LEADFRAME and SUBSTRATE Cleaning

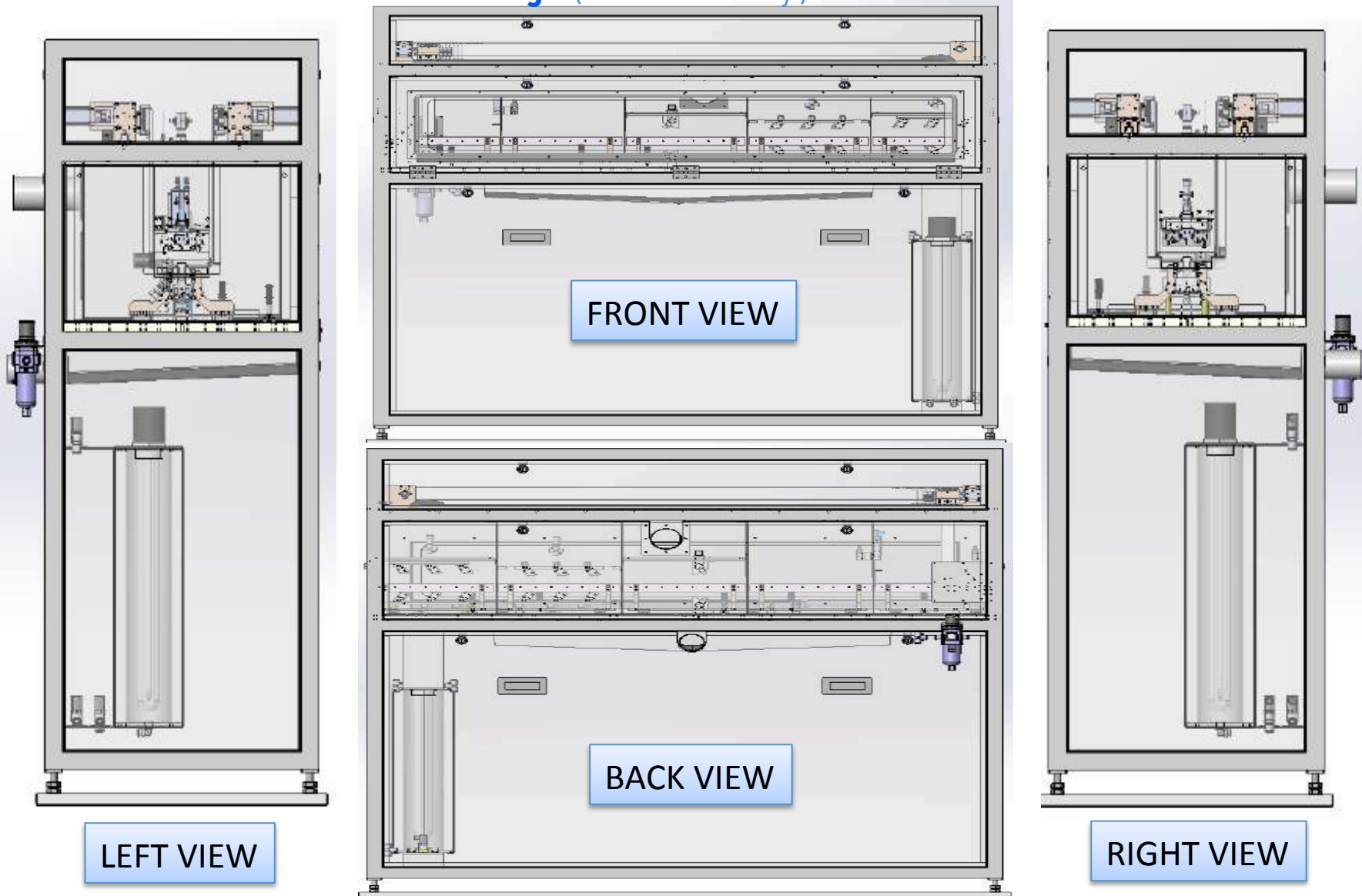


ATSM HIGH PRESSURE AQUEOUS JET LEADFRAME & SUBSTRATE CLEANING SYSTEM

**Advanced HIGH PRESSURE HANDLING Design** ( Wash - Rinse - Dry )

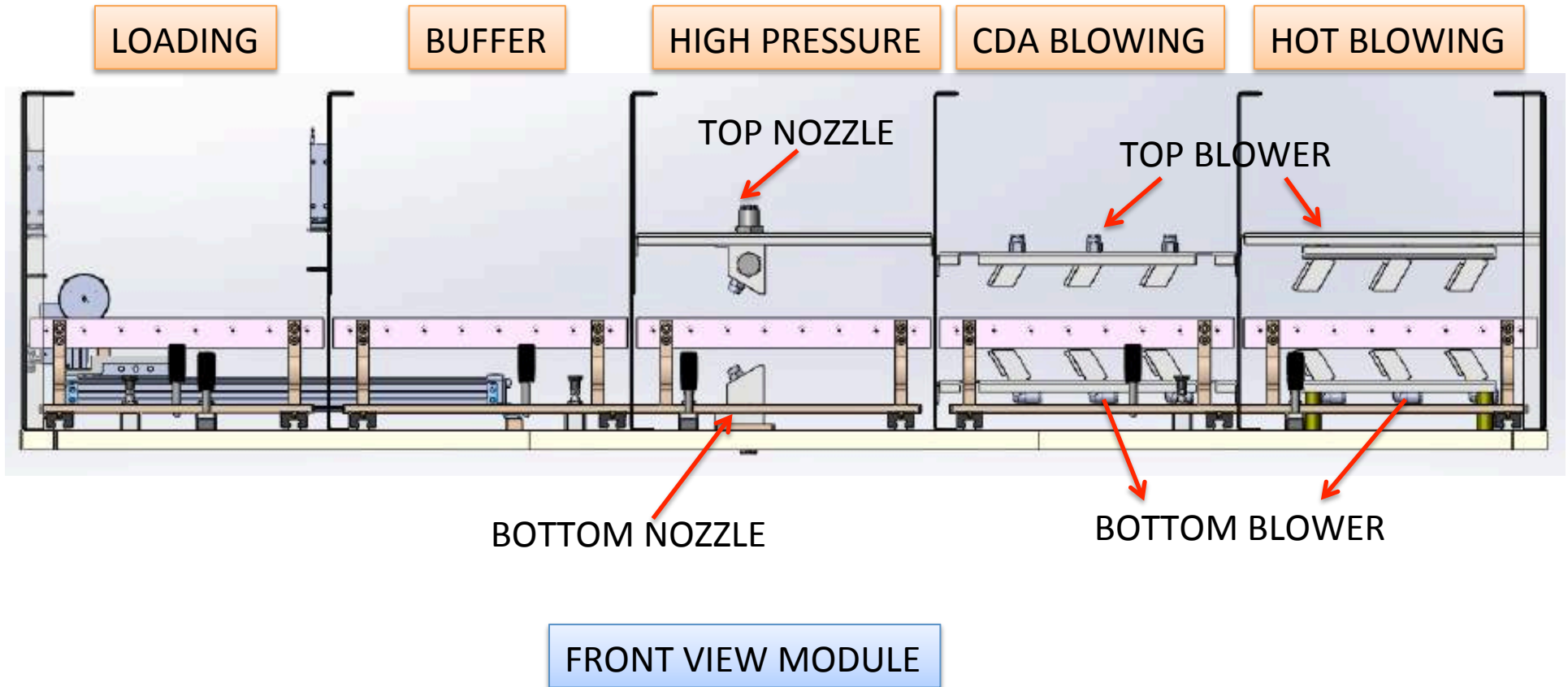


**Advanced HIGH PRESSURE HANDLING Design** ( Wash - Rinse - Dry )



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## LOADING & UNLOADING

Magazine Loader



Magazine Unloader



- Magazines with Leadframe / Substrate are manually loaded to Loader and automatically clamped and moved to programmed position.
- Loaded magazine at Unloader station is also automatically unloaded and loaded.

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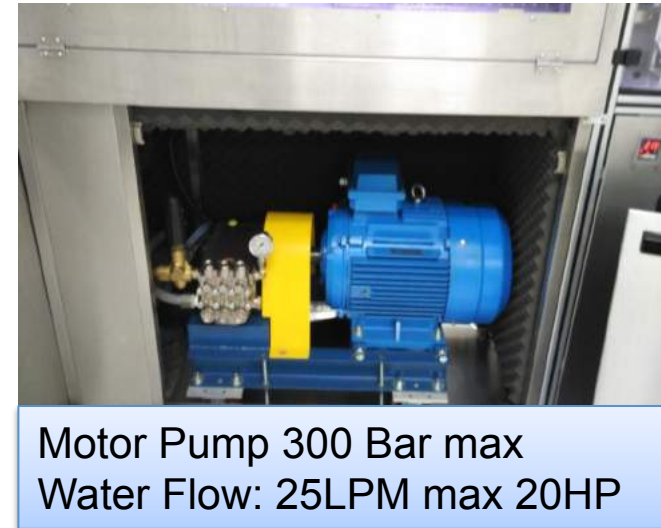
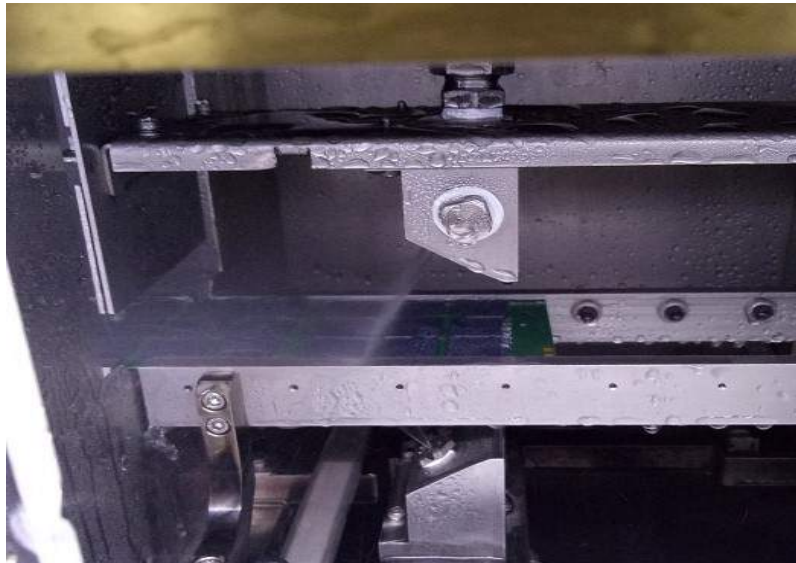
**BUFFER**



- BUFFER is a staging station prior to high pressure cleaning a Leadframe / Substrate is readied so when either main pushers return to "Start" position (near pusher motor Home position).
- This is enable machine to speed up processing.
- When a Leadframe / Substrate is in the Buffer station and sensor detect it's presence and pusher is at start position then main pusher starts to move or push the Leadframe / Substrate in.

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### HIGH PRESSURE WATER JET SPRAY

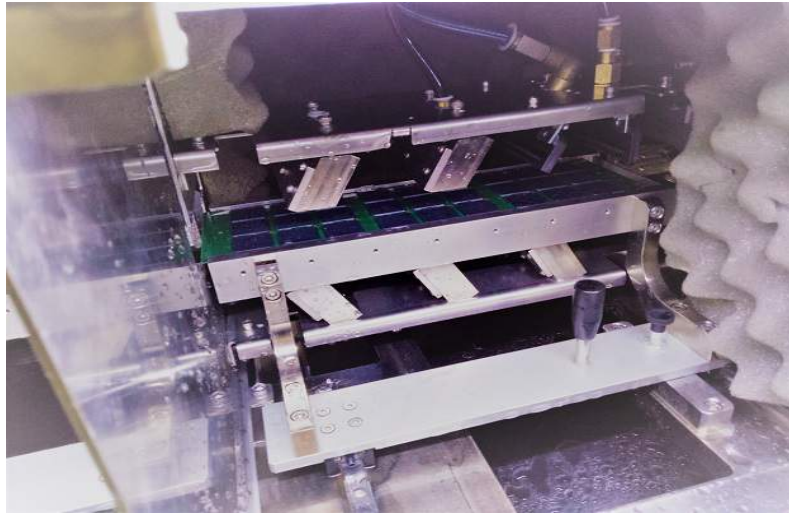


- This station the Leadframe / Substrate is cleaned by High Pressure Water Jet coming from Motor Pump.
- Leadframe / Substrate is being pushed along the tract by a motor driven main pusher.
- Leadframe / Substrate top and bottom surface are being clean by Water Jet Nozzle to remove the particles.



**Advanced HIGH PRESSURE HANDLING Design** ( Wash - Rinse - Dry )

## CDA BLOWER



- Main pusher pushes past High Pressure station to CDA Blower station which is CDA blowing.
- Air Nozzles top and bottom to blows away water droplets from Leadfarme / Substrate.
- This is in coming CDA.

**Advanced HIGH PRESSURE HANDLING Design** ( Wash - Rinse - Dry )

**HOT AIR BLOWER**



**Elektor**  
airsystems gmbh

- Last Station is a Hot Air Blower to dry Leadframe / Substrate by using Hot Air Recirculation design with stainless steel Finned Heater heating system, made in Germany High Temperature Blower.
- We are using the nozzles to dry the Leadframe / Substrate.
- The temperature is set to about 100 to 120 deg C, it will be fully dry the Leadframe / Substrate.