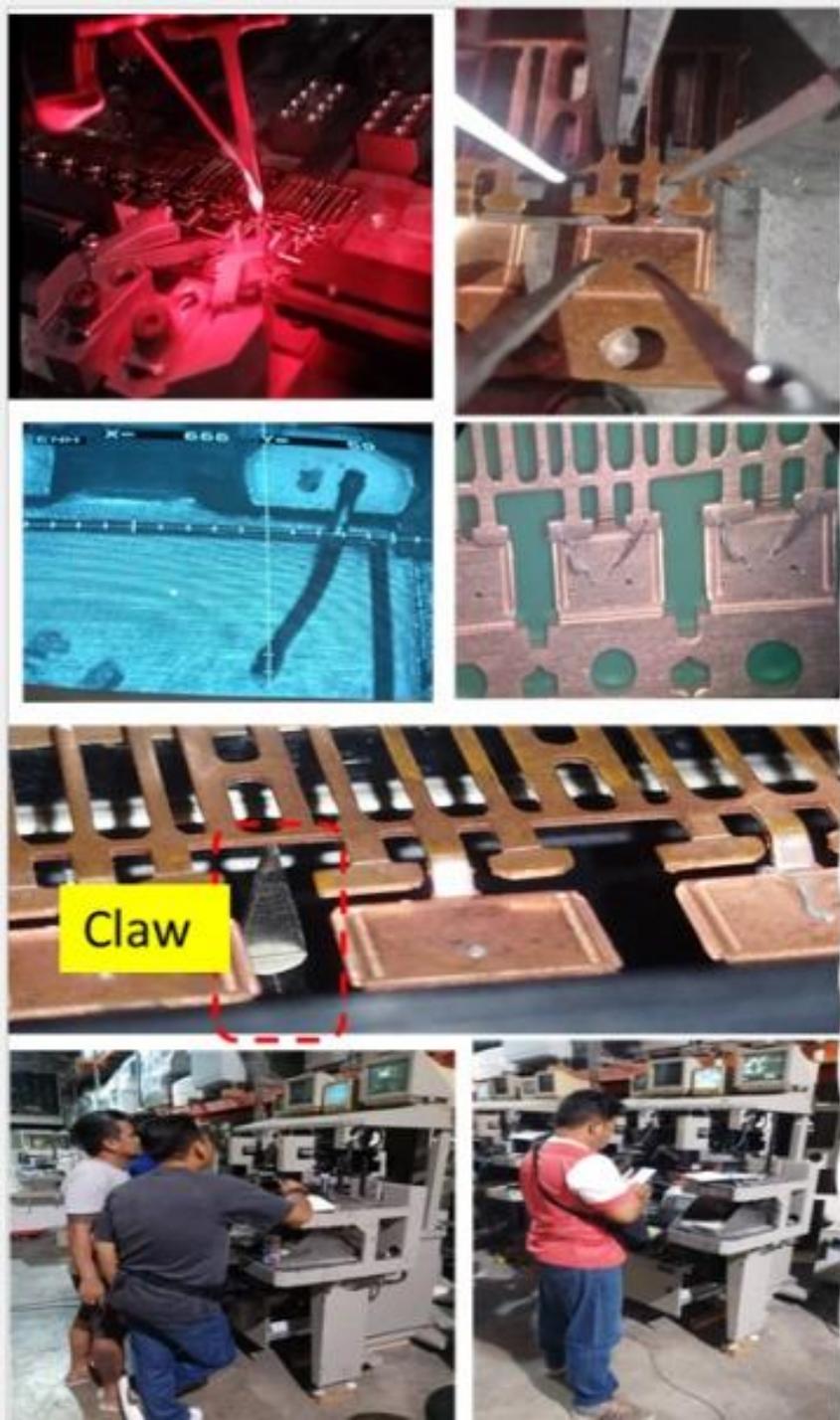


Assessment on iVP Development Line Equipment Functionality Buy Off – [May 18 '2025](#)

- Performing Equipment Functionality Buyoff of Orthodyne Wire Bonder for TO 220 at Smart Option site in Ipoh ,Perak
 - Set up and Debug together with Mr Rhay - Smart Option Engineer
 - Trouble shooting and fine tuning strip Indexing inconsistency : Successfully resolved.
 - Machine Passed with Stage 3 buyoff on 10 mils Al wire.
 - Mr Rhay conducted Basic Machine Set Up and Operation Training to PTC Technical team.
- Set up and Debug Fujjwa Conventional Mold System for TO220
 - Completed the installation and alignment of top and bottom cull block , pot and plunger.
 - Trouble shooting Machine CPU which unable to function in normal working condition.
 - Next Step : Validate with Dummy Mold Shots and Optimize Mold Parameter.
- Set up and Debug Sanjia Yamada Trim and Form System for TO252
 - Trouble shooting Unloading Elevator inconsistency – Resolved.
 - Trouble shooting Unloader Pick & Place Unable to Homing – Review and optimize PLC program.
 - Conduct Dry Run on Punches and Die Insert – Done
 - Next Step : Validate with Dummy Molded Strips and Optimize Parameter

TO220 Orthodyne Aluminum Wire Bonding Machine



- **Lead Frame Indexing Adjustment**

- Indexing mechanism utilizes cam and claw pins
- Smart Option engineer Rhay resolved mis-step issue after 5 hours of fine-tuning

- **Aluminum Wire Bonding Capability**

- Supports wire size range from 5mil to 20mil
- Passed 3-stage buy-off using 10mil wire
- Proper finger clamping on each lead is critical for bonding quality

- **Operator Training Conducted**

- Rhay completed basic setup and operation training for Azrul, Khairul, and KW Shu

Fujiwa TO-220 Mold System Update

- **Pot & Plunger Alignment Verified**

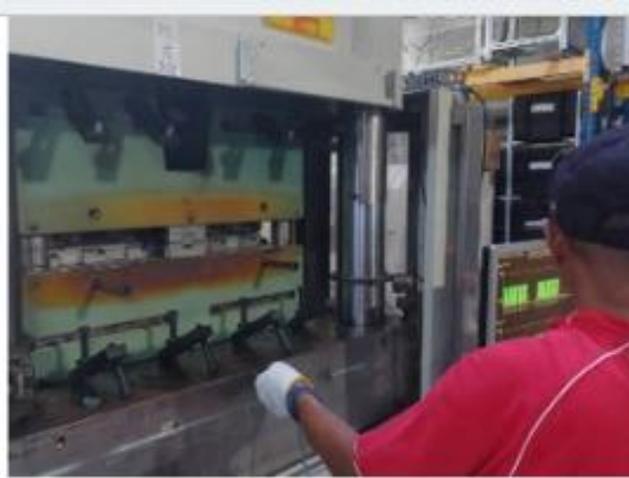
- Ensured correct alignment of mold pot and plunger for TO-220 chassis to prevent flash and ensure uniform cavity filling.

- **Mold Temperature Stability Checked**

- Monitored mold temperature ($\sim 176^{\circ}\text{C}$) over multiple cycles; readings remain within $\pm 2^{\circ}\text{C}$ tolerance, confirming thermal consistency.

- **CPU Control Issue & Action Plan**

- Identified intermittent CPU fault on the mold press controller; Kenny to deploy Fastech engineer this week for diagnostics and firmware/hardware troubleshooting.



TO-252 Trim & Form Machine Setup Update

- **Punch & Die Verification Completed**
 - Punch check through stripper insert: Passed
 - High-speed singulation punch replaced and cutting die punch validated
- **Unloading & Elevator Instability Detected**
 - TO-252 unloading assembly not stable
- **Leadframe elevator operation shows irregular motion**
 - Corrective Action: PLC Assessment
 - Kenny to coordinate with the controls engineer to review and optimize the PLC program for unloading and elevator stability.

