

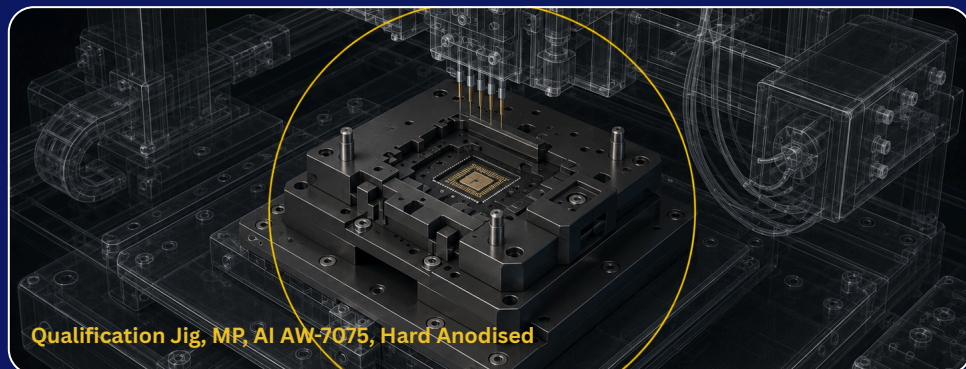
APPLICATIONS – MATERIALS & FINISHES BY PART TYPE

meviy enables rapid-turnaround precision parts for the semiconductor industry. Stainless steel and aluminium grades are selected for cleanroom compatibility and chemical resistance. Anti-static plastics for enclosures and support structures. Materials and finishes are grouped below by the part they serve.



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Test Fixtures, qualification jigs & alignment hardware — Milling (MP) / Turning (TP) / Sheet Metal (SM)



MATERIALS

- **Stainless Steel EN 1.4301 / 1.4401 (MP & TP)**
Won't interfere with sensitive electronics or magnetic measurement systems. Resists cleaning chemicals used in qualification environments.
- **Aluminium EN AW-7075 (MP)**
Maximum rigidity for fixture plates and alignment blocks requiring tight tolerances at low weight.
- **Steel EN 1.2379 / 1.2344 (MP & TP)** Can be hardened to HRC 50–63. Ideal for wear-critical locating pins and contact points used repeatedly across test cycles.

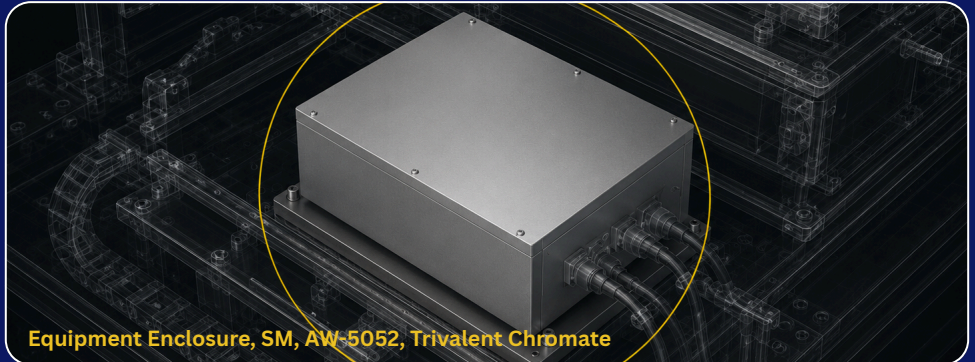
FINISHES & FEATURES

- **Passivation (for Stainless Steel)** Keeps surfaces clean and particle-free. Prevents contamination of the test environment.
- **Hard Anodized (for Aluminum)** Steel-like surface hardness with the lightweight benefits of aluminum. Ideal for wear-resistant parts.
- **Black Oxide (for Steel)** Zero coating thickness. Anti-reflective for optical alignment fixtures. Mild corrosion protection.
- **Electroless Nickel (for Aluminium & Steel)**
Even coating on complex geometry. Hole sizes and thread fits unaffected after coating.

Test Fixtures, qualification jigs & alignment hardware — Milling (MP) / Turning (TP) / Sheet Metal (SM)

MATERIALS	FINISHES & FEATURES
	• Anodised (clear) (for Aluminium) Corrosion protection, doesn't affect part dimensions — critical where fixture tolerances must be maintained after coating.
	• ±0.01 mm Tolerance (for Al & Stainless Steel) Alignment-critical interfaces where positional accuracy directly affects test results.
	• GD&T Tolerancing (All Materials) Flatness, perpendicularity and bore concentricity automatically included in the quote.
	• Grinding / Finefinish Ra 0.4 (Al & Stainless Steel) Mirror-smooth reference surfaces for contact probes and optical measurement systems.

Equipment frames, enclosures & support structures — Sheet Metal (SM) / Milling (MP)



Equipment Enclosure, SM, AW-5052, Trivalent Chromate

MATERIALS	FINISHES & FEATURES
Aluminium AW-5052 (SM) Best formability in sheet. Stays strong under repeated stress without extra heat processing.	Trivalent Chromate SurTec 650 (for Aluminium) RoHS/REACH compliant. Keeps electrical shielding intact across assembled panels. Required for EMC compliance.
Aluminium EN AW-7075 (MP) Maximum rigidity for structural frames and enclosure blocks requiring tight tolerances.	Anodised (clear) (for Aluminium) Corrosion protection, doesn't affect part dimensions or fits.
MC Nylon Conductive / Anti-static (MP & TP) Prevents static build-up. Safe for use near sensitive components and wafer-handling equipment.	Anodised (black) (for Aluminium) Low reflectance for optical zones inside equipment. Abrasion resistant.
	Electroless Nickel (for Aluminium) Even coating on complex enclosure shapes. No dimensional surprises on threaded features.
	EMC / RoHS Compliant (for Aluminium) Electrical bonding continuity across assembled panels. Meets RoHS and REACH regulations.
	±0.01 mm Tolerance (for Aluminium) Assembly-critical interfaces, no separate supplier needed.