



Patented

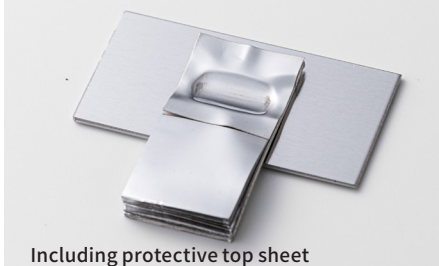
Application

Bonding

Lithium-Ion Battery Terminals

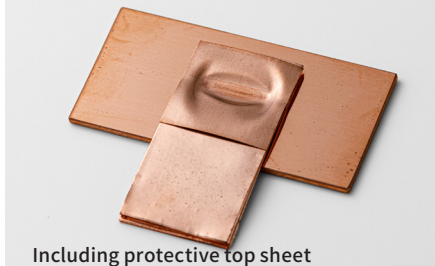
Clip Ingot Bonding Aluminium/Copper Foil Stacks

60 Layer Aluminium Foil Stack



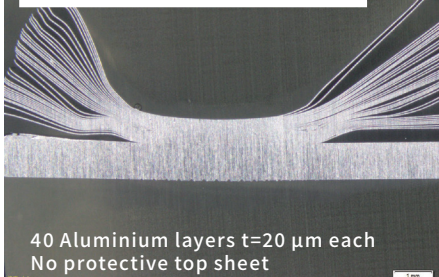
Including protective top sheet

60 Layer Copper Foil Stack

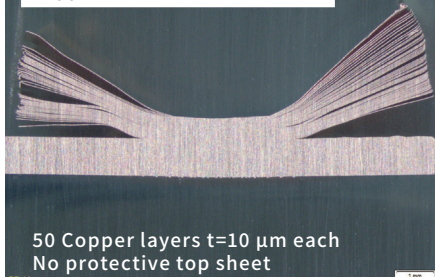


Including protective top sheet

Aluminium Foil Stack Cross Section

40 Aluminium layers $t=20\text{ }\mu\text{m}$ each
No protective top sheet

Copper Foil Stack Cross Section

50 Copper layers $t=10\text{ }\mu\text{m}$ each
No protective top sheet

Clip Ingot Bonding (CIB)

The CIB tool utilizes a rounded tip to focus and transmit the bonding energy to the workpiece. This prevents deep surface marking and debris contamination, which is common with conventional mesh tools. The resulting bonds are clean and damage-free, resembling those of a stapleless stapler.

System Used

15MZs



AP-E-0048A4-2026082601