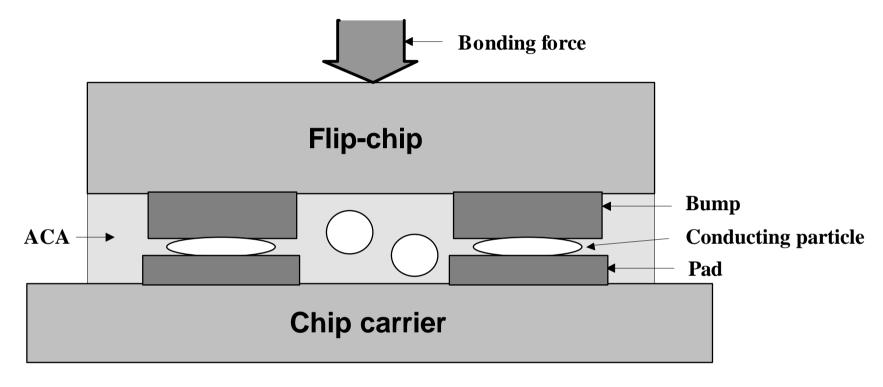
Chapter 3

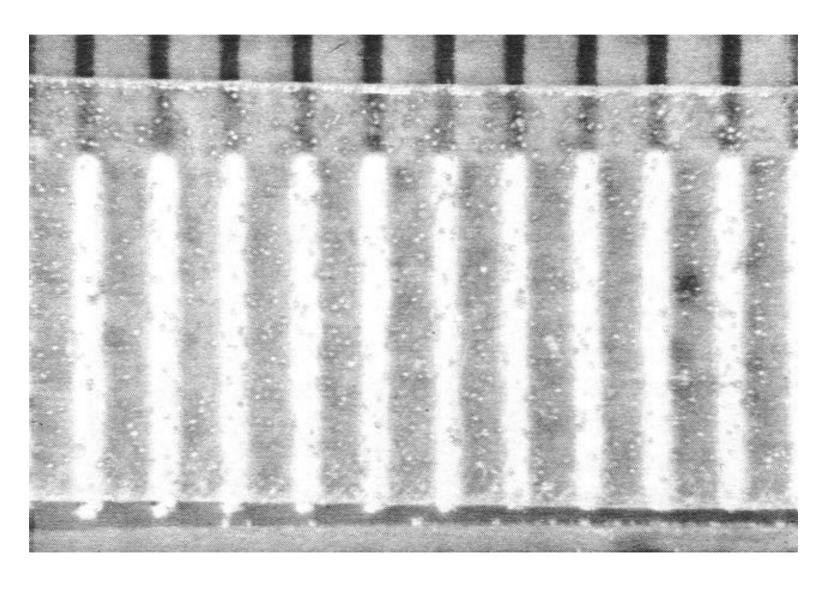
Flip-Chip bonding process

Flip-Chip bonding process

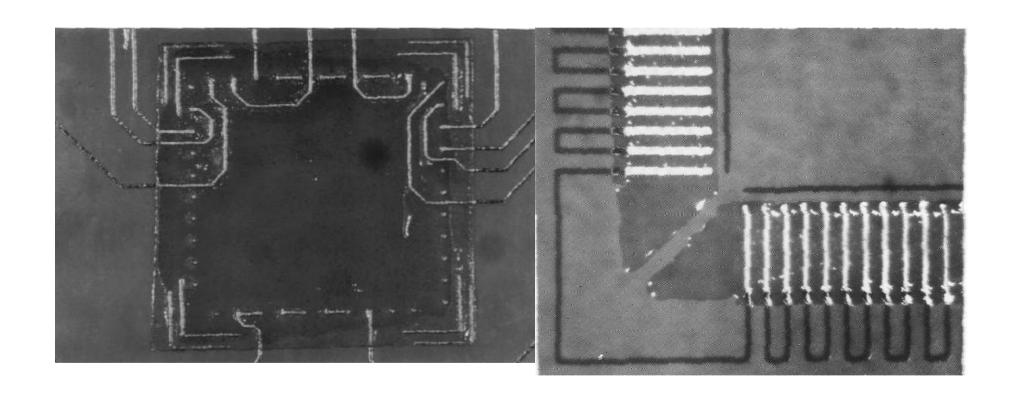


Schematic of ACA flip-chip joining

Film attach of ACF



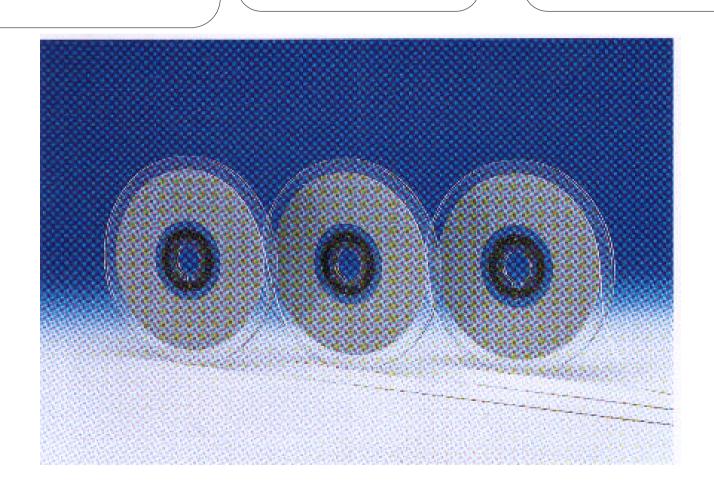
Stencil printing of ACA paste

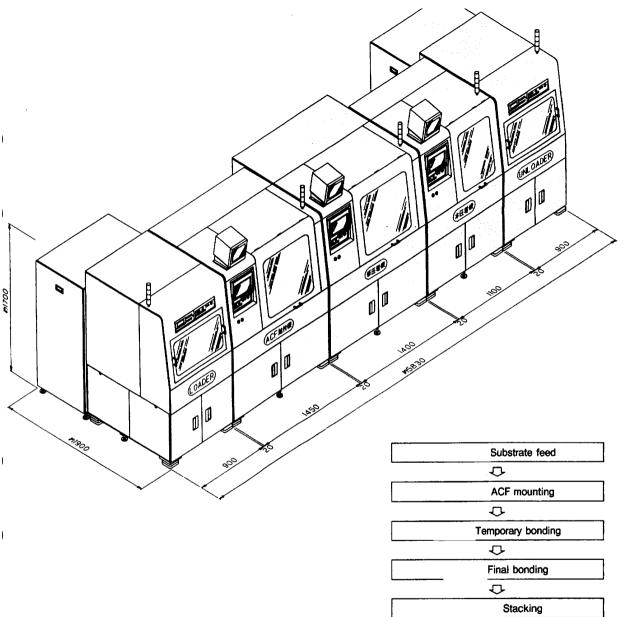


Placement and removal of carrier film on ACF or stencil printing of ACA paste

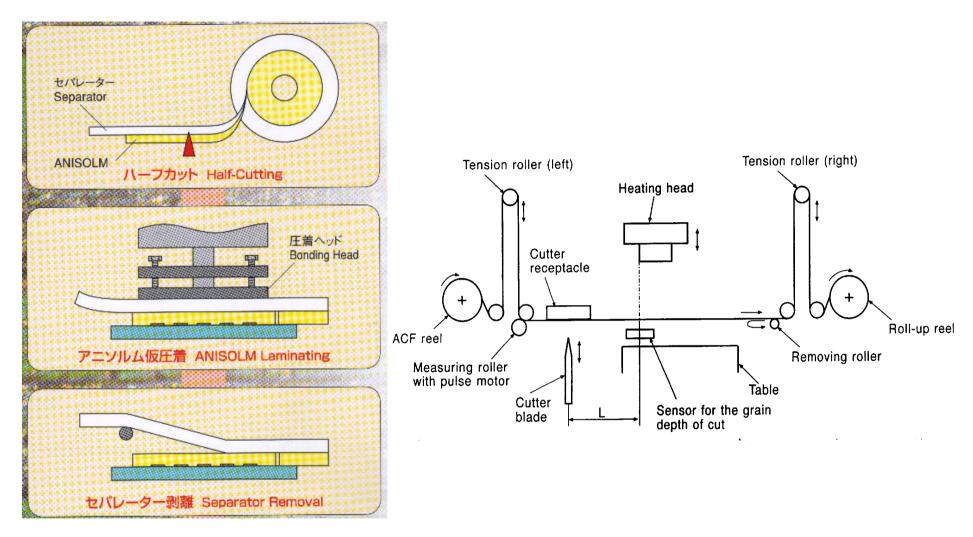
Placement of flip-chip components

Curing and bonding using thermode bonder

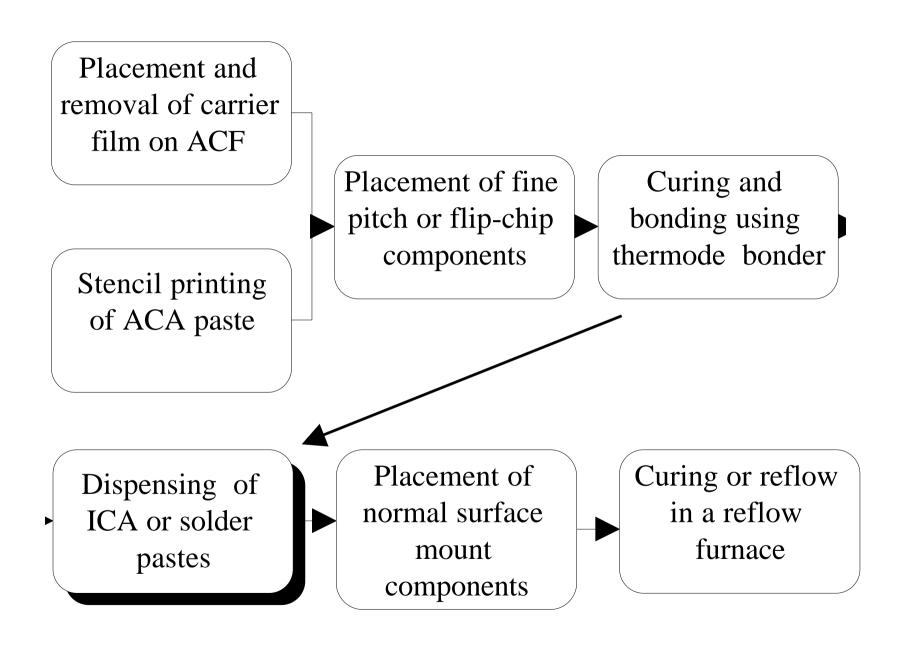


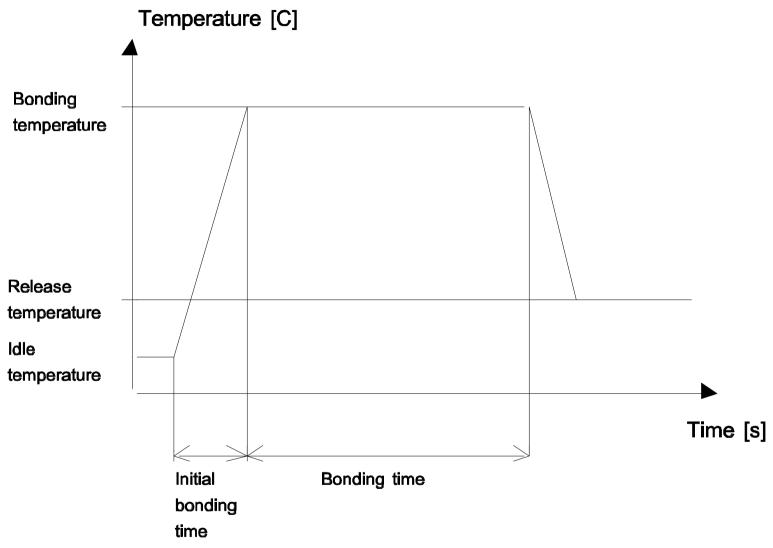


Automatic process flow for flip-chip bonding using ACF film on FR-4 substrate.

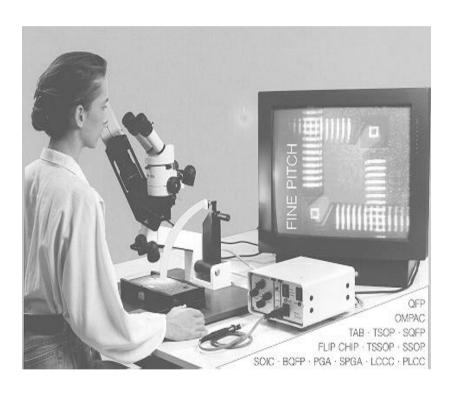


Carrier film removal mechanism in an automatic bonding line.



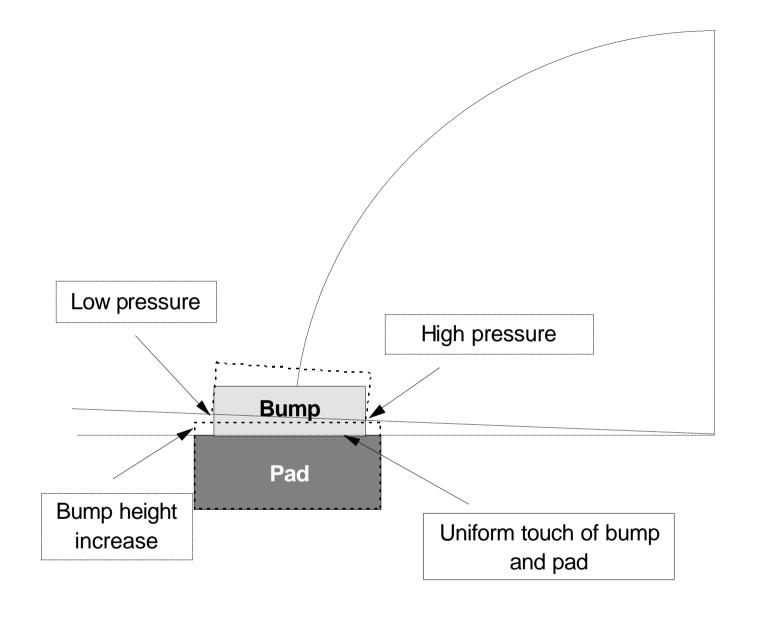


Temperature profile of the thermodes during bonding

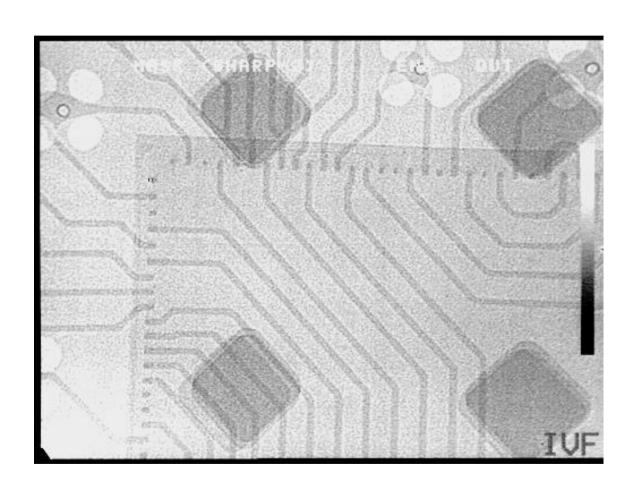




Flip-Chip bonding equipment



Assembly accuracy



Assembly accuracy

