

Conventional PCB Assembly Line

Process 1



Solder Paste Printing

OR



Epoxy Bonding



Chip Mounting



Conventional PCB Assembly Line

Process 2



Manual Inserting



Wave Soldering
(Lead Free)

←
Input from SMT



Oven



Wiring



Conventional PCB Assembly Line

Process 3



Function Checker



ICT



PCB



OQC Checking



Conventional PCB Assembly Line

Process 4

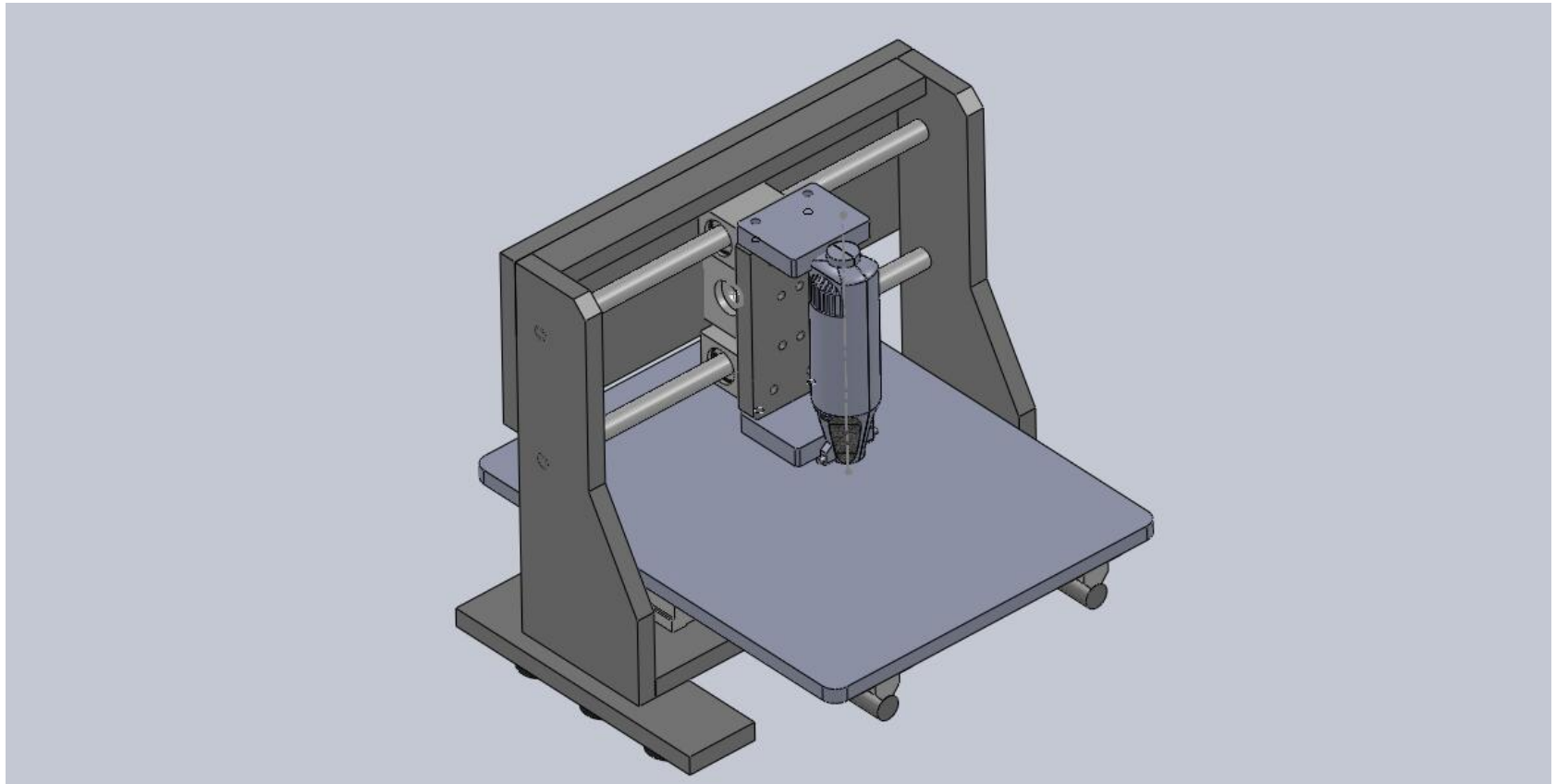


Ready To Ship

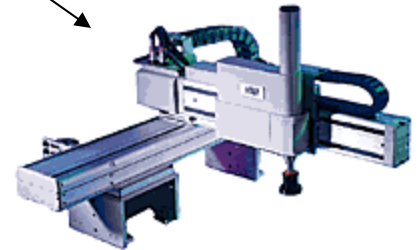
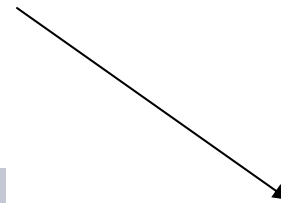
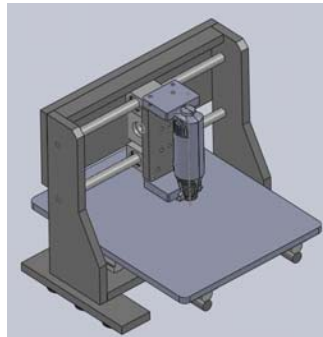
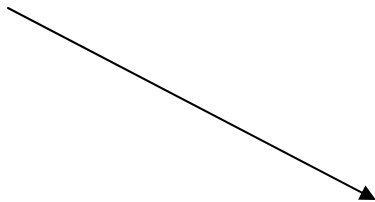
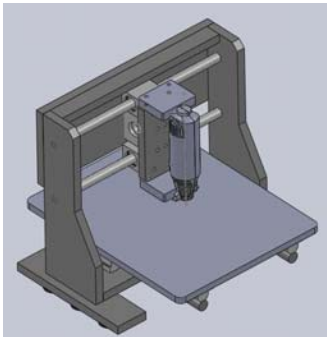
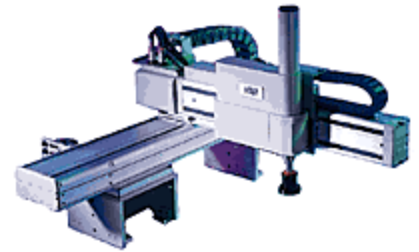
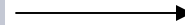
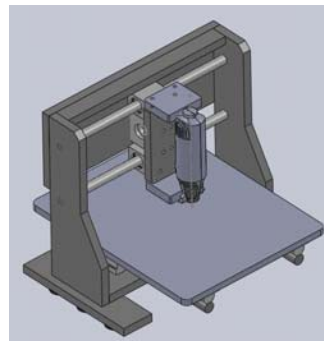
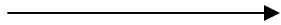
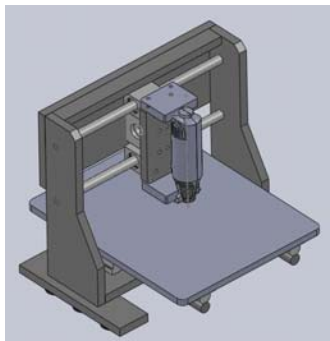


Storage

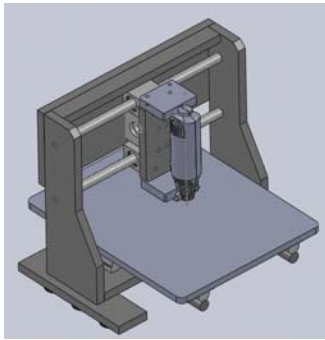
Proposal for Self Replicating PCB Assembly Line - Single Common Unit



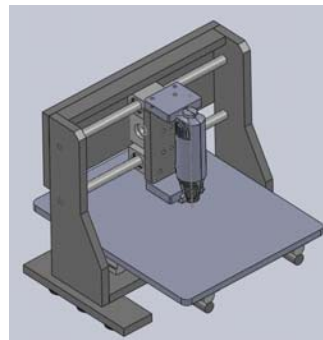
Proposal for Self-Replicating PCB Assembly Line - Self- Replicating



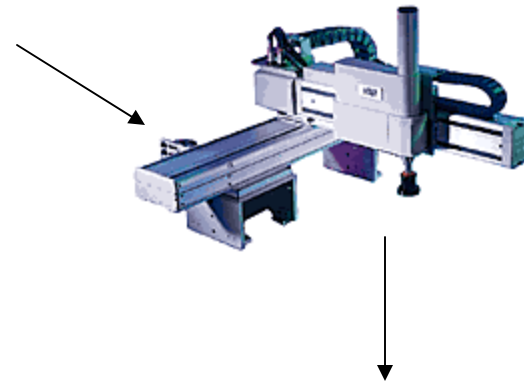
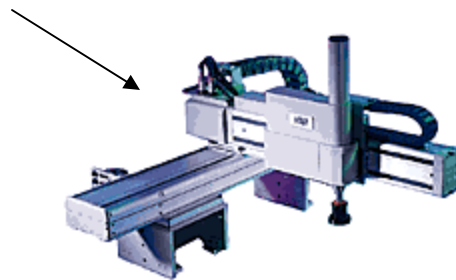
Each Unit will perform a Step of the SMT PCB assembly Process



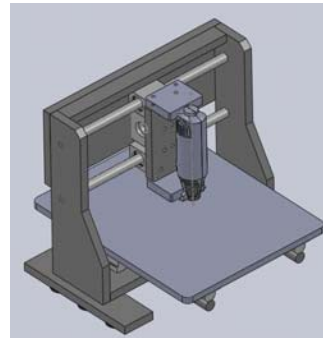
Solder Paste Printing



Chip Mounting



Each Unit will perform a Step of the SMT PCB assembly Process

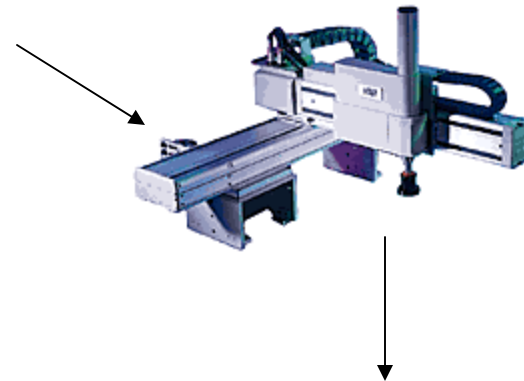
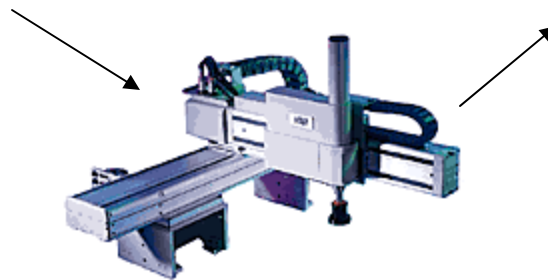


+

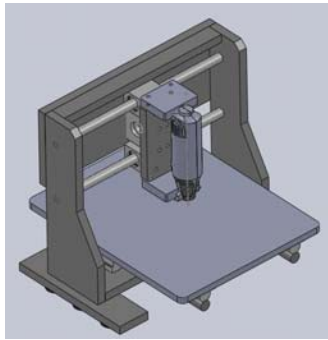


Reflow Oven

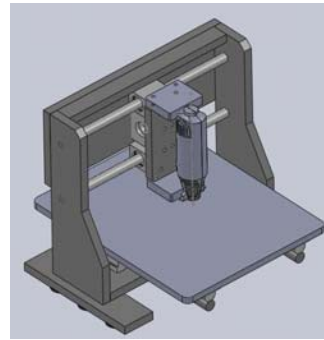
Vision System Inspection



Each Unit will perform a Step of the SMT PCB assembly Process

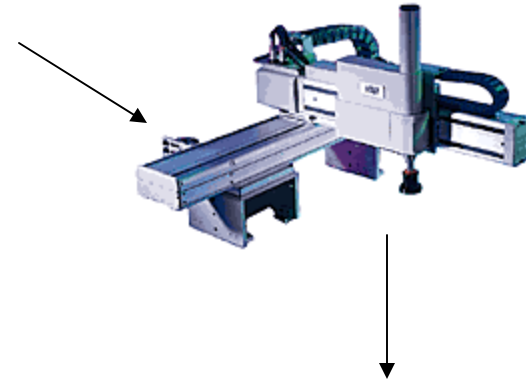
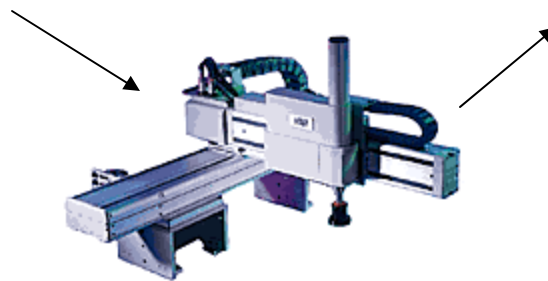


In Circuit Testing



Electrical Function Check

+



Delivery