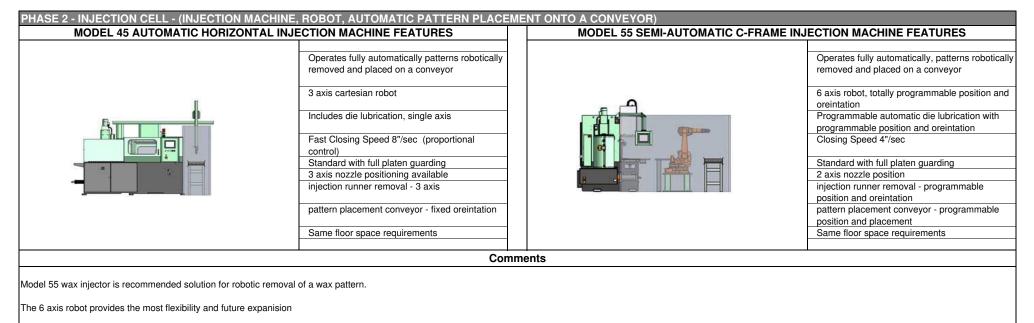
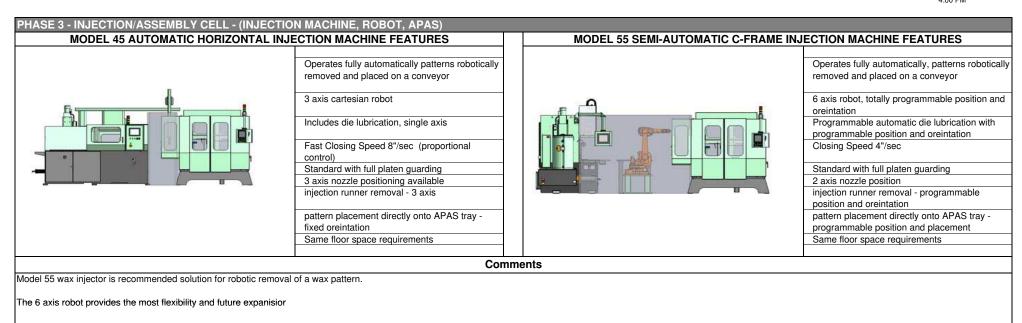
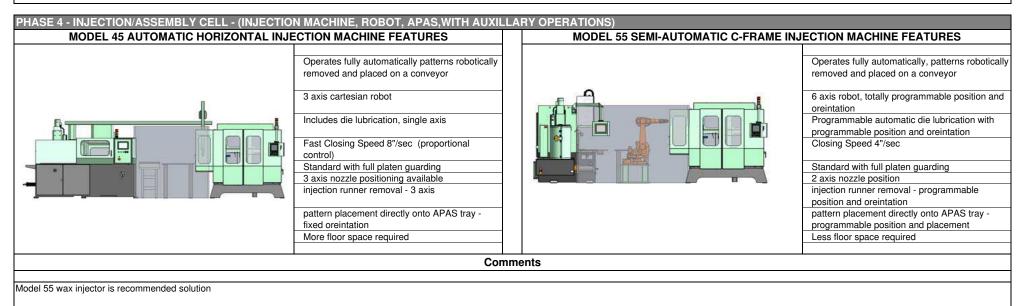
## AUTOMATED INJECTION / ASSEMBLY CELL - PHASES OF AUTOMATION

MODEL 45 INJECTION WITH A CARTESIAN ROBOT VS. MODEL 55 INJECTION WITH A 6 AXIS ROBOT

	Operates fully automatically dropping patterns into water Includes die lubrication as standard Fast Closing Speed 8"/sec (proportional control) Standard with full platen guarding 3 axis nozzle positioning available More floor space required		Operates semi-automatically, requires operate to remove the wax pattern Manual die lubrication completed by operator Closing Speed 4"/sec Standard with full platen guarding 2 axis nozzle position Less floor space required
Comments	Comment	S	





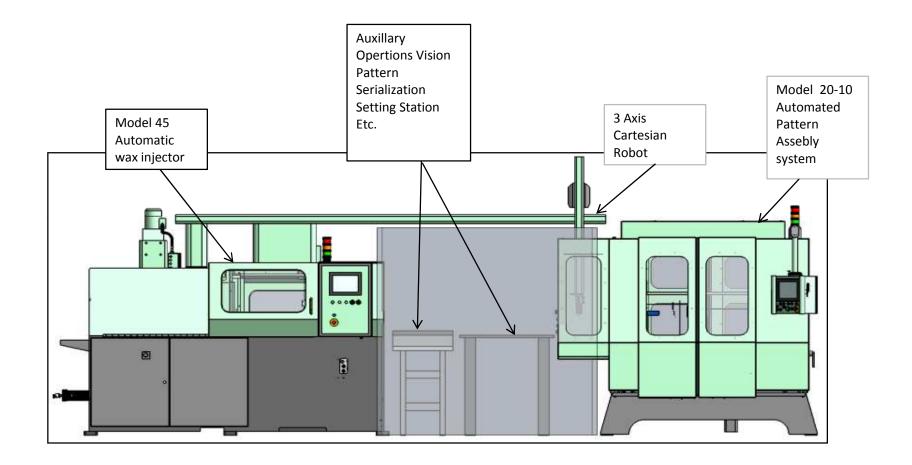


The 6 axis robot provides the most flexibility and future expanision

The robot can transfer the pattern to other stations for such operations as inspection, pattern serialization, touch up, etc.

GENERAL CELL OPERATIONS	
MODEL 45 AUTOMATIC HORIZONTAL INJECTION MACHINE FEATURES	MODEL 55 SEMI-AUTOMATIC C-FRAME INJECTION MACHINE FEATURES
No Injection Cell Operator terminal.	Cell includes central Operator Interface Terminal.
Fixed sequence that can not be altered	Programmable sequence, more easily expandable to future operations
Operator requires some robot programming experience	Operator requires some robot programming experience
3 axis operation only	

## MODEL 45 - INJECTION/ASSEMBLY CELL (INJECTION MACHINE, ROBOT, APAS, WITH AUXILLARY OPERATIONS)



## MODEL 55 - INJECTION/ASSEMBLY CELL (INJECTION MACHINE, ROBOT, APAS,WITH AUXILLARY OPERATIONS)

