

# Modtech 4 Pillar Wax Injection Machines Logical and Economical

## New Modtech Ensign Range of 4 Pillar Wax Injection Machines...



### Exciting Features

Shipped as PLUG & PLAY machines, with the intention to start producing production wax patterns, within 48 hrs of delivery of the machine

Logical cost effective design

Unique REMOTE access for fast problem solving via direct internet Modtech factory support

High degree of machine customisation available, including customer specific machine colours, die securing methods, platen sizes, supply voltages/frequencies and country specific parts

### Injection System

New and Improved Sealing System to handle Pattern Virgin Wax, Riser Wax, Reclaimed Wax & Water Soluble Waxes

Rapid Wax melter with Auto Fill Up Vacuum Loader as standard Add on

Effective Agitator design in Sync with improved sensors for homogeneous temperature control in wax reservoir and wax path

### Clamping System

Highly compact design, engineered to take up the minimum amount of floor space

Fastest in the segment, machines are designed to work with the shortest possible cycle times, enhancing productivity

Extensive standard range of clamp forces available, 6 tons to 50 tons

Generous maximum open daylight and open die working areas

Efficiency booster add ons to suit customers specific needs and applications, Shuttle Tables, Pattern Ejectors, Platen Heating/Cooling etc.

### Safety & Controls

Full compliance with CE Standards and other worldwide standards as required

Control system upgrades available, to keep pace with the latest developments in hardware and software, for the entire life of the machine

Built to universal logical design standards, with easy worldwide spare parts availability

## Detailed Specs Sheet of Ensign Range of 4-Pillar Wax Injection Machines

Specification	UNIT	6T 4 PILLAR	12T 4 PILLAR	35T 4 PILLAR	50T 4 PILLAR
<b>Clamping Unit</b>					
<b>Clamping Force</b>	<b>Tons</b>	6	12	35	50
Daylight (Maximum)	mm	300	400	600	100
Clamp Cylinder Stroke	mm	250	330	500	800
Admit Between Pillars	mm	300 X 300	400 X 400	600 X 600	750 X 75
Platen Size	mm	400 X 400	600 X 600	750 X 750	1000X 1000
<b>Clamp Platen Speed</b>					
Close Rapid / Slow / Open	mm/sec	40 / 10 / 50	40 / 10 / 50	40 / 10 / 50	40 / 10 / 30
Shuttle Table	Optional	Not Applicable	Not Applicable	Not Applicable	Yes
Height from Floor (Work Table)	mm	800	1000	1000	1000
Size	mm	Not Applicable	Not Applicable	Not Applicable	650 X 1000
T Slots		Not Applicable	Not Applicable	Not Applicable	As per IS Std.
Platen Cooling (Moving & Bottom / Shuttle Plate)	Optional	Yes	Yes	Yes	Yes
Pattern Ejector (50 mm from Bottom Plate)	Optional	Yes	Yes	Yes	Yes
<b>Wax Reservoir Assembly</b>					
Holding Tank Capacity					
Slab Melter (30 KG / HR)	Liters	17	30	60	100
	Optional	Yes	Yes	Yes	Yes
<b>Injection Assembly</b>					
Single Shot Capacity	CC	500	2000	4000	8000
Injection Pressure	Bar	5-50	5-50	5-50	5-50
Ultra Low Pressure Injection	Optional	0-5 Bar	0-5 Bar	0-5 Bar	0-5 Bar
Injection Speed	Standard	350 cc/sec	350 cc/sec	350 cc/sec	500 cc/sec
<b>Nozzle Assembly</b>					
Side Nozzle	-	Standard	Standard	Standard	Standard
Adjustment (UP-DOWN)	mm	50-200	50-230	50-330	50-400
Adjustment (IN-OUT)	mm	200	200	250	300
Method	-	Manual	Hydraulic	Hydraulic	Hydraulic
Top Nozzle (Fixed in Top Platen)	Optional	Yes	Yes	Yes	Yes
<b>Control System</b>					
Controller	-	4 X 20 Character 16 Keys High Contrast Screen	4 X 20 Character 16 Keys High Contrast Screen	4 X 20 Character 16 Keys High Contrast Screen	4 X 20 Character 16 Keys High Contrast Screen
M J ppék Control Module	Optional	5.7 Inch 65000 K Colour Touch Screen	5.7 Inch 65000 K Colour Touch Screen	5.7 Inch 65000 K Colour Touch Screen	5.7 Inch 65000 K Colour Touch Screen
<b>Machine Diagnostics</b>					
Die Recipe for 200 Dies	Optional	Yes	Yes	Yes	Yes
(Available with M J ppék Control)	Optional	Yes	Yes	Yes	Yes
Control Language (Standard English)	Optional	Customer Specific	Customer Specific	Customer Specific	Customer Specific
Remote Access	Optional	Yes	Yes	Yes	Yes
Electrical Load	KVA	6	8	10	10
Platen Heating	Optional	Yes	Yes	Yes	Yes
Extensive Spares Kit	-	Standard	Standard	Standard	Standard
Safety Standards	-	CE Marked	CE Marked	CE Marked	CE Marked



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