

# Modtech Wax Injection Machines ~ Proven Mettle

Modtech Now Enhances Its Well Accepted  
& Proven Wax Injection C Frames....

## New Modtech Ensign Range of C-Frame 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 virgin pattern 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

World's largest selling standard design wax machine with 20 ton clamp force  
Fastest in the segment, machines are designed to work with the shortest possible cycle times, enhancing productivity

Extensive standard range of clamp forces available, 20 tons to 75 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 C-FRAME Wax Injection Machines

Specification	UNIT	20T C Frame	35T C Frame	50T C Frame	75T C Frame
<b>Clamping Unit</b>					
Clamping Force	Tons	20	35	50	75
Daylight (Maximum)	mm	400	600	750	1000
Clamp Cylinder Stroke	mm	330	500	650	800
Platen Size	mm	720 X 550	720 X 550	720 X 600	850 X 650
Clamp Platen Speed					
Close Rapid / Slow / Open	mm/sec	40 / 10 / 50	40 / 10 / 50	40 / 10 / 50	40 / 10 / 30
Shuttle Table	Optional	Yes	Yes	Yes	Yes
Height from Floor (Work Table)	mm	1000	1000	1000	1000
Size	mm	550 X 900	550 X 900	600 X 900	650 X 1200
T Slots		As per IS Std	As per IS Std	As per IS Std	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	Liters	60	60	100	150
Multiple Reservoirs (2 off)	Optional	Yes	Yes	Yes	Yes
High Speed Paste System	Optional	Yes	Yes	Yes	Yes
Slab Melter (30 KG / HR)	Optional	Yes	Yes	Yes	Yes
<b>Injection Assembly</b>					
Single Shot Capacity	CC	4000	4000	8000	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
Roto Purge (Recirculation till the tip of Nozzle)	Optional	Yes	Yes	Yes	Yes
<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
Bottom Nozzle (Fixed in Top Platen)	Optional	Yes	Yes	Yes	Yes
<b>Control System</b>					
Controller	-	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
M J ppek Upgradation	Optional	Yes	Yes	Yes	Yes
Machine Diagnostics	Optional	Yes	Yes	Yes	Yes
Die Recipe for 200 Dies (Available with M J ppek 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
Injection Graph	Optional	Yes	Yes	Yes	Yes
Electrical Load	KVA	8	8	10	12
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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