



MODTECH

Modtech Ceramic Injection Machines Logical and Economical

New Modtech Ensign Range of 4 Pillar & C Frame Ceramic Injectors



SALIENT FEATURES

- Recirculation of Ceramic Material up to the Nozzle Tip
- Purpose Designed Injection System
- Machine Designed for Long Life and Constant Operation
- Easy and Fast Seal Changes
- Entire Ceramic Tank and Injection System Moves Together
- Ceramic Material Push Button Purge Facility
- Heavy Duty Tank and Agitator
- Hardened Wear Parts
- Unique Heat Zones Design to Minimize Heat Loss
- Modular Digital Servo Hydraulics
- CE marked Guards and Electrical
- Various Die Mounting Options
- Platen Cooling Passages Standard
- Optional PLCS Platen Laser Centering System
- Optional Ceramic Vacuum System to Remove Air from Material via Vacuum
- Worldwide Easily Available Spare Parts

SPECIAL FEATURES

- Platens are turned 90° to enable the easy injection of lengthways cantilever tooling often used for ceramic core production
- **Optional Injection Type:** Conventional Piston Based Injection or Screw & Barrel Based Injection
- **Optional Nozzle Tip Closure:** Spring Checked Valve or Cylinder Driven Pin

CONTROL SYSTEM

- Larger Touch Screen with Easy Program Upload Facility
- M-ppck Enabled
- Inbuilt Modem
- USB Connection
- Icon Based Control with Operator Friendly Interaction
- LAN enabled with Remote Machine Access
- 200 Die Recipe System
- Multi User Password Access
- Diagnostics for Electricals / Auto Cycle
- Historical and Dynamic Graphing
- Ceramic Level Control & Indication
- Alarm Systems Protection



Detailed Specs Sheet of Ensign Range of 4-Pillar & C Frame Ceramic Injectors

Specification	UNIT	35 T C FRAME	50 T 4 PILLAR	75 T 4 PILLAR	100 T 4 PILLAR
Clamping Unit					
Clamping Force	Tons	35	50	75	100
Daylight (Maximum)	mm	600	600	750	1000
Clamp Cylinder Stroke	mm	500	500	650	800
Admit Between Pillars	mm	Not Applicable	700 x 1200	800 x 1300	900 x 1500
Platen Size	mm	720 x 550	1000 x 1500	1100 x 1600	1200 x 1800
Clamp Platen Speed					
Close Rapid / Slow / Open	mm/sec.	50 / 10 / 50	50 / 10 / 50	30 / 10 / 30	30 / 10 / 30
Shuttle Table	Optional	Yes	Yes	Yes	Yes
Height from Floor (Work Table)	mm	800	800	800	800
Size	mm	920 x 550	1150 x 1150	1250 x 1250	1450 x 1450
T Slots		As per IS Std.	As per IS Std.	As per IS Std.	As per IS Std.
Platen Cooling (Moving & Bottom / Shuttle Plate)	-	Standard	Standard	Standard	Standard
Pattern Ejector (100 mm from Bottom Plate)	Optional	Yes	Yes	Yes	Yes
Ceramic Reservoir Assembly					
Holding Tank Capacity	Liters	35	60	75	75
Multiple Ceramic Tanks (2 off)	Optional	Yes	Yes	Yes	Yes
Injection Assembly					
Single Shot Capacity	CC	1500	2000	2500	3500
Injection Pressure	Bar	5-100	5-100	5-100	5-200 Bar
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.	500 cc/sec.	500 cc/sec.
Nozzle Assembly					
Side Nozzle	-	Standard	Standard	Standard	Standard
Adjustment (UP-DOWN)	mm	50-330	50-350	50-405	0-530
Adjustment (IN-OUT)	mm	250	300	300	300
Adjustment (SIDE WISE)	Optional	± 100 mm	± 150 mm	± 200 mm	± 200 mm
Control System					
Touch Screen	-	Standard	Standard	Standard	Standard
M-ppck	Optional	Yes	Yes	Yes	Yes
Machine Diagnostics	Optional	Yes	Yes	Yes	Yes
Injection Graph	-	Standard	Standard	Standard	Standard
Die Recipe for 200 Dies	-	Standard	Standard	Standard	Standard
Control Language	Optional	Customer Specific	Customer Specific	Customer Specific	Customer Specific
Remote Access	-	Standard	Standard	Standard	Standard
Electrical Load	KVA	15	15	20	22
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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Survey No. 396, Plot No 73P, New Ahmedabad Industrial Estate,
Moraiya, Ahmedabad – 382 213 Gujarat, India
E-mail: info@modtechworld.com Website: www.modtechworld.com
Mobile : +91 97 23456 237, +91 97 23456 238

Distributed Outside of India By:

Mr Peter R Mayo

Mayo Engineering Ltd

Tel: + 44 (0)1623 414491 Fax: + 44 (0)1623 414495 Mobile: + 44 (0)7970 472894
E-mail: peter@mayoengineering.com Web: www.mayoengineering.com

Represented in Germany, Austria, Slovakia and Finland By:

Mr Klaus Hanke E-mail: g-hanke@t-online.de

Represented in Poland By:

Mr Marek Szejczerwski Email: info@metalurgia-technologie.eu

Represented in France By:

Mr Francois Danchin Email: f.danchinfont@wanadoo.fr

Represented in Russia By:

Mr Alexander Voronin E-mail: abuniver@niit.ru

Represented in Italy By:

Mr Guido Di Giantommaso E-mail: kemar@inwind.it

Represented in Turkey By:

Mr Ahmet Esiyok E-mail: ahmet.esiyok@hdmendustriyel.com

Represented in Romania By:

Mr Ciprian Cretu E-mail: hausler@rdsbv.ro