



CTM-CI CERAMIC INJECTION MACHINE

QUALITY - PERFORMANCE - RELIABILITY

THE CTM CERAMIC INJECTION MACHINE IS DESIGNED
TO PRODUCE HIGH QUALITY CERAMIC CORES

- ❖ Cleveland Tool and Machine produces a line of 4-Post and C-Frame Ceramic Slurry Injection Machines that range in sizes from 15 to 100 Tons with die working area of 14 to 40 inches.
(LARGER SIZES AVAILABLE UPON REQUEST)

STANDARD FEATURES INJECTION SYSTEM:

- Our in-line injection system allows the ceramic to be injected in a straight line from the injection chamber through our unique nozzle design and into the die. This insures a smooth laminar flow that prevents turbulence.
- Hardened components to resist wear
- Auto purge of ceramic after each cycle
- Auto ceramic charge between cycles
- 4 zones of temperature control

PRESS:

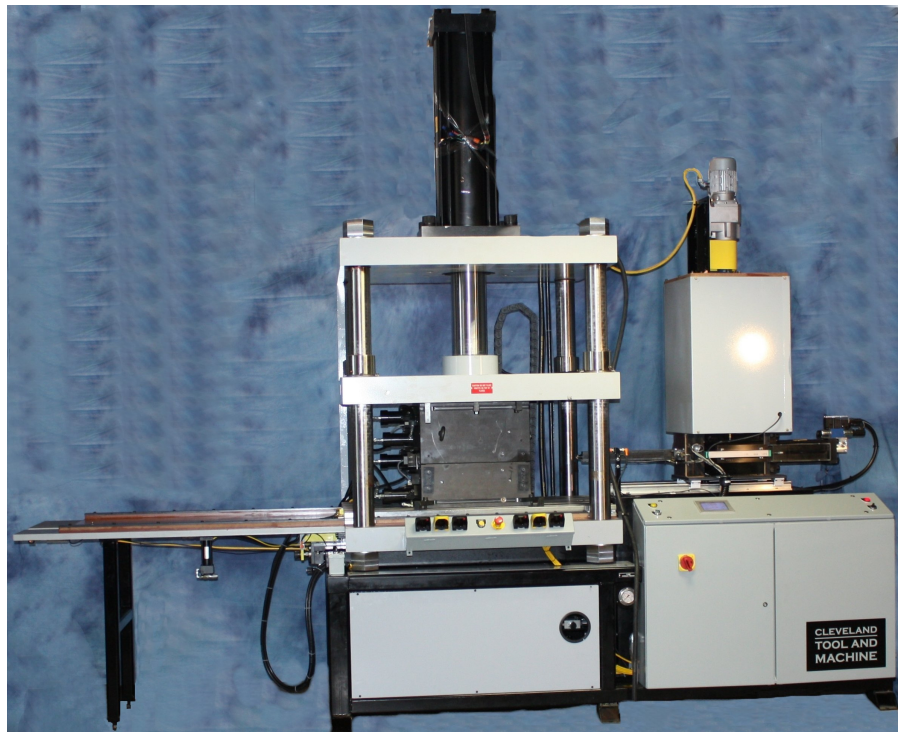
- T-Slots on Bottom and Moving Platen
- Low oil level alarm/shutdown
- High temperature alarm/shutdown
- Ultra quiet pumping system
- Safety Panels around machine base
- Independent platen cooling

OPERATOR:

- All functions on easy-to-use touch screen interface in user's language
- Reduced operator fatigue due to ergonomic controls
- Built to NFPA, ANSI, & OSHA safety standards.

WARRANTY:

- All machines carry a full 1 year warranty on all materials and workmanship.



**CTM-CI-100
100 TON CERAMIC INJECTOR
With Shuttle Table and with Outboard Pattern Ejection**

CONTACT US TODAY!

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ASK ABOUT OUR AVAILABLE OPTIONS TO ENHANCE YOUR MACHINE!

CTM 4 POST CERAMIC INJECTION MACHINE SPECIFICATIONS

Machine Model	CTM-15		CTM-25		CTM-50		CTM-100	
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
Clamp Force - tons	0-15 Ton		0-25 Ton		0-50 Ton		0-100 Ton	
Press closing speed	3 in./sec	7.62 cm/sec	3 in./sec	7.62 cm/sec	3 in./sec	7.62 cm/sec	3 in./sec	7.62 cm/sec
Press opening speed	3 in./sec	7.62 cm/sec	3 in./sec	7.62 cm/sec	3 in./sec	7.62 cm/sec	3 in./sec	7.62 cm/sec
Die mounting	1/2 in T-Slots		1/2 in T-Slots		1/2 in T-Slots		1/2 in T-Slots	
Water cooled platens	Included		Included		Included		Included	
Material holding tank capacity	15 Gal	57 Liter	15 Gal	57 Liter	30 Gal	114 Liter	30 Gal	114 Liter
Shot size	100 cu. In	1.6 Liter	100 cu. In	1.6 Liter	346 cu.in	5.6 Liter	785 cu. In	12.8 Liter
Injection pressure	0-800 PSI	41 Bar	0-800 PSI	41 Bar	0-800 PSI	41 BAR	0-800 PSI	41 BAR
Injection flow rate maximum	15 cu.in/sec	245 cc/sec	15 cu.in/sec	245 cc/sec	15 cu.in/sec	245 cc/sec	25 cu.in/sec	425 cc/sec
Injection cycle time	0-999 sec.		0-999 sec.		0-999 sec.		0-999 sec.	
Nozzle tip size	3/8 in. radius	.95 cm radius	3/8 in radius	.95 cm radius	3/8 in radius	.95 cm radius	3/8 in radius	.95 cm radius
Heating system	120 volt- 4+ zones		120 volt- 4+ zones		120 volt- 4+ zones		120 volt- 4+ zones	
Hydraulic system pressure	2600 PSI	179 BAR	2600 PSI	179 BAR	2600 PSI	179 BAR	3075 PSI	212 BAR
Hydraulic pump type	Press. compensated		Press. compensated		Press. compensated		Press. compensated	
Hydraulic reservoir capacity	15 Gal.	57 Liter	15 Gal.	57 Liter	20 Gal	74 Liter	30 Gal	114 Liter
Hydraulic cooling system	Water cooled		Water cooled		Water cooled		Water cooled	
Min. cooling water flow	3 GPM	11 LPM	3 GPM	11 LPM	3 GPM	11 LPM	3 GPM	11 LPM
Max. cooling water temperature	80° F	27° C	80° F	27° C	80° F	27° C	80° F	27° C
Cooling water connection	1/2 inch NPT		1/2 inch NPT		1/2 inch NPT		1/2 inch NPT	
Standard Electric	460V 3Ph 60 HZ 20 @		460V 3Ph 60 HZ 30 @		460V 3Ph 60 HZ 30 @		460V 3Ph 60 HZ 30 @	
Air Pressure (if Required)	60-80 PSI	4.1 - 5.5 BAR	60-80 PSI	4.1-5.5 BAR	60-80 PSI	4.1-5.5 BAR	60-80 PSI	4.1-5.5 BAR
Approximate weight	3500 Lbs	2.45 Kgs.	5500 Lbs	2500 Kgs	9500 Lbs	4318 Kgs	21,000 Lbs	9525 Kgs
A) Height	73.5 in	187 cm	89 in	226 cm	109 in	277 cm	117 in	297 cm
B) Width	65.5 in	166 cm	75 in	191 cm	91 in	231 cm	100 in	254 cm
C) Floor to Table	36 in	91 cm	36 in	91 cm	36 in	91 cm	36 in	91 cm
D) Press Open	14 in	36 cm	20 in	51 cm	30 in	76 cm	40 in	102 cm
E) Work Area-Width	3-14 in	8-36 cm	3-20 in	8-51 cm	3-24 in	8-61 cm	3-36 in	8-91 cm
F) Nozzle In/Out	0-8 in	0-20 cm	0-8 in	0-20 cm	0-8 in	0-20 cm	0-10	0-25 cm
G) Nozzle Up/Down	2-9.5 in	5-24 cm	2-9.5 in	5-24 cm	2-9.5 in	5-24 cm	2-14 in	5-35.5 cm
H) Depth	49 in	125 cm	55 in	140 cm	67.5 in	171 cm	80 in	203 cm
I) Work Table	15 in	38 cm	15 in	38 cm	15 in	38 cm	N/A	N/A
J) Shuttle Table	N/A	N/A	15 in	38 cm	40 in	102 cm	46 in	117 cm
K) Work Area-Depth	20.75 in	53 cm	27.5 in	70 cm	40 in	102 cm	48 in	122 cm

Dimensions are subject to change without notice.

