



# CTM-WI-CF

## C-FRAME INJECTION MACHINE

*QUALITY - PERFORMANCE - RELIABILITY*

CTM WAX INJECTOR C-FRAME INJECTION MACHINES ARE DESIGNED TO PRODUCE HIGH QUALITY PATTERNS

- ❖ Cleveland Tool and Machine produces a line of C-Frame Machines that range in sizes from 15 to 50 Tons with die working area of 14 to 40 inches, handling both Paste/Wax and Ceramic Slurry. (LARGER SIZES AVAILABLE UPON REQUEST)

### **STANDARD FEATURES**

#### **INJECTION SYSTEM:**

- Our in-line injection system allows the material 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.
- Three different injection control systems suited to the user's needs. All systems contain excellent Temperature, Pressure, and Flow control.
- Automatic purge of material after each cycle
- Automatic material charge between cycles
- 4 zones of temperature control

#### **PRESS:**

- Available with Work Table or Shuttle Table
- T-Slots on Bottom and Moving Platen
- Low oil level alarm/shutdown
- High temperature alarm/shutdown
- Ultra quiet pumping system
- 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-WI-CF-50 - 50 Ton machine with Shuttle Table and with Electronic Injection Control**

#### **CONTACT US TODAY!**

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**ASK ABOUT OUR AVAILABLE OPTIONS TO ENHANCE YOUR MACHINE!**

# SPECIFICATIONS

Machine Model	CTM-CF-15		CTM-CF 25		CTM-CF-50	
	Imperial	Metric	Imperial	Metric	Imperial	Metric
Clamp Force - tons	0-15 Ton		0-25 Ton		0-50 Ton	
Press closing speed	1.5 in./sec	3.8 cm/sec	1.5 in./sec	3.8 cm/sec	1.5 in./sec	3.8 cm/sec
Press opening speed	1.5 in./sec	3.8 cm/sec	1.5 in./sec	3.8 cm/sec	1.5 in./sec	3.8 cm/sec
Die mounting	1/2 in T-Slots		1/2 in T-Slots		1/2 in T-Slots	
Water cooled platens	Included		Included		Included	
Material holding tank capacity	15 Gal	57 Liter	15 Gal	57 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
Injection pressure	0-800 PSI	0-41 Bar	0-800 PSI	0-41 Bar	0-800 PSI	0-41 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
Injection cycle time	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
Heating system	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
Hydraulic pump type	Press. compensated		Press. compensated		Press. compensated	
Hydraulic reservoir capacity	15 Gal.	57 Liter	15 Gal.	57 Liter	20 Gal	74 Liter
Hydraulic cooling system	Water cooled		Water cooled		Water cooled	
Min. cooling water flow	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
Cooling water connection	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 @	
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
Approximate weight	3500 Lbs	2.45 Kgs.	5500 Lbs	2500 Kgs	9500 Lbs	4318 Kgs
A) Height	77 in	196 cm	80 in	203 cm	99 in	251 cm
B) Width	42 in	107 cm	55 in	140 cm	64 in	163 cm
C) Depth	62 in	157 cm	71 in	180 cm	89 in	226 cm
D) Floor to table	34.5 in	88 cm	34.5 in	88 cm	34.5 in	88 cm
E) Press area	24 in	61 cm	24 in	61 cm	30 in	76 cm
F) Press open	2-14 in	5-36 cm	3-20 in	8-51 cm	3-24 or 30 in	8-61 or 76 cm
G) Nozzle In/Out	0-8 in	0-20 cm	0-8 in	0-20 cm	0-8 in	0-20 cm
H) Nozzle Up/Down	2-9.5 in	5-24 cm	2-9.5 in	5-24 cm	2-9.5 in	5-24 cm
I) Press Depth	14 in	36 cm	20 in	51 cm	32 in	81 cm
J) Work table	12 in	30 cm	15 in	38 cm	15 in	38 cm
K) Work table	12 in	30 cm	14 in	36 cm	15 in	38 cm
L) With shuttle table	N/A	N/A	22 in	56 cm	32 in	81 cm

Dimensions are subject to change without notice.

