



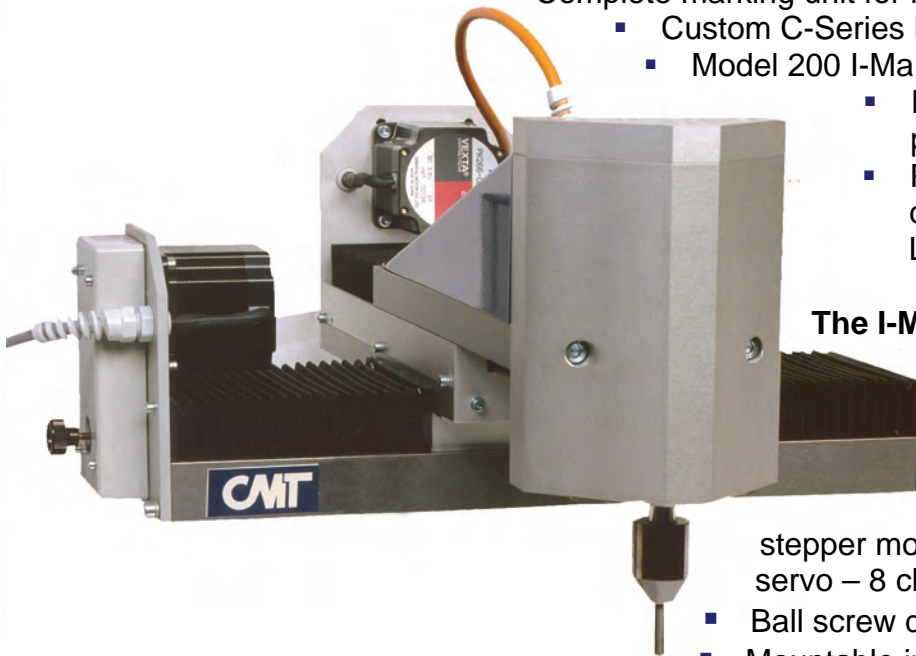
# Tomorrow's marking technology...today!

## C-Series, Dot-Peen & Scribe Custom Solutions

Versatile marking system offering both **Dot-Peen** and **"Silent Scribe"** marking in the same **system**. This **ball screw drive** system comes with either stepper drives offering up to 5 characters per second, or high speed servo drives offering up to **8 characters per second**. The system controller offers the flexibility of DC start and mark complete signals, as well as serial and digital I/O communication. This system is UID/2D Square-Dot® Compatible.

Complete marking unit for integration:

- Custom C-Series Marking head
- Model 200 I-Mark Controller
  - I-Mark software for programming (details page 22)
  - Power cable, Marking head cable, Cross over cable, and LAN cable



### The I-Mark-C Marking Head:

- Dot-Peen and scribe
- Air or electric pin control
- Selection of marking windows
- Marking speed selection:
  - stepper motor – 5 characters per second,
  - servo – 8 characters per second
- Ball screw drive
- Mountable in any orientation

### The I-Mark Model 200 controller:

- Compact design for easy installation into production equipment.
- Communication options including remote programming over LAN, and operational controls via I/O, Modbus, Serial, Ethernet IP ect.
- Touch screen/monitor upgrade and more details page 18

### Options:

- Pedestal mount
- Upgrades: database and camera integration



## C-Series Dot-Peen & Scribe Custom Solutions

### C-Series Dot-Peen & Scribe How to Order

To Order: Select only the symbols that represent the marker feature that is needed. Place that symbol in the sequence as shown.		
Model/Feature	Symbol	Example
I-Mark Custom	IMC	IMC-60-ST-ES-ZE
<b>Window Size</b>		
60 (1.6" x 2.3" or 60 x 40mm)	60	     
150 (4" x 6" or 150 x 100mm)	150	
300 (8" x 12" or 300 x 200mm)	300	
500 (10" x 20" or 500 x 250mm)	500	
<b>Speed/Drive</b>		
SE (Servo)	SE	 
ST (Stepper)	ST	
<b>Head Style</b>		
Electric Scribe (diamond scribe pin)	ES	     
Electric Peen (carbide pin)	EP	
Air Scribe (diamond scribe pin)	AS	
Air Peen (carbide pin)	AP	
<b>Z Axis Options</b>		
Electric Z-40mm (for DPS60)	ZE	     
Electric Z-100mm	ZEA	
Pneumatic Z-50mm	ZP	
No Z Axis Options	00	
<b>Cable Length</b>		
10 ft Cable	-	 
25 ft Cable	25	

### Features:

- Ball screw drive, offers precise dot-peen and scribe accuracy
- Marks in dot-peen or scribe mode
- Marking windows:
  - 60 = 1.6" x 2.3"
  - 150 = 4" x 6"
  - 300 = 8" x 12"
  - 500 = 10" x 20"
- Marking speed:
  - Stepper marks 5 (1/8", 3mm) characters per second
  - Servo marks 8 (1/8", 3mm) characters per second
- 10ft (3m) or 25 ft (7.6m) cable to connect marking head to controller
- Pin selections:
  - Carbide pin for peen – Marks plastic, wood and metals (up to 45 RC)
  - Diamond pin for scribe – marks harder parts and offers Square-Dot® (page 30)

### Utilities:

- Electrical components require 110 VAC power, 6 ft (1.8m) electrical cord supplied
- Air power required for pneumatic dot-peen (30-75 PSI)\*
  - 8mm Push-in tube fitting

\*Not a requirement with electrically powered unit







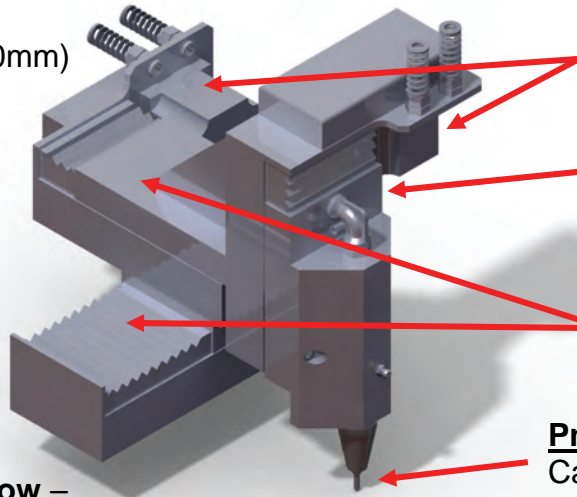
# Tomorrow's marking technology...today!

## C-Series Features

Illustration of IMC-60STAPZE

### Envelope Dimensions –

9.5" x 9.5" x 7.5"  
(240 x 240 x 190mm)



**Stepper Motors** – Marks up to (5) 1/8", 3mm character per second

**Automatic Electric Z-Axis** – able to mark on multi-level surfaces in one marking pass

**Ballscrew drives** – Industrial ballscrew drive for precise dot placement, protected by bellows

**Pneumatic Dot-peen Head** – Carbide pin provides superior marking depth

### Marking Window –

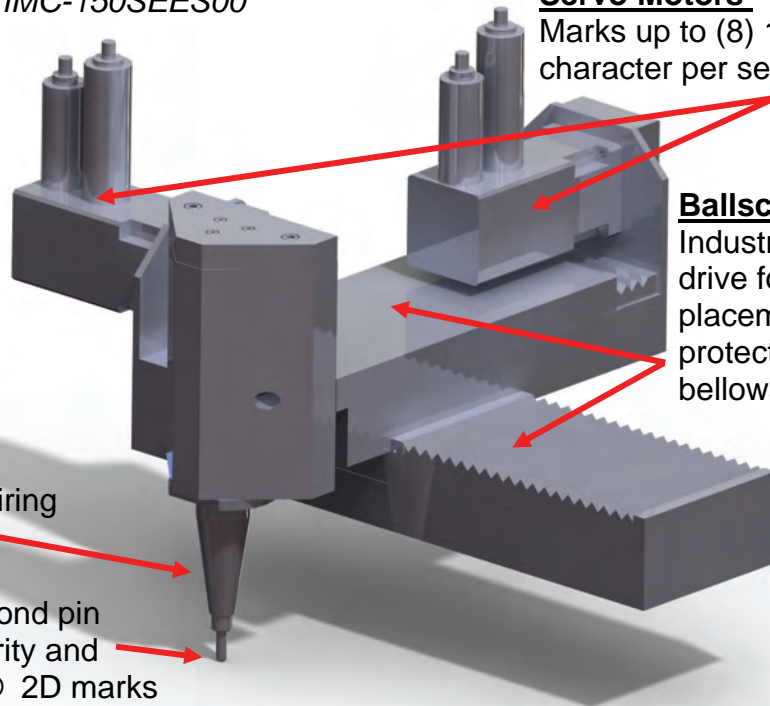
1.6" x 2.3" (60 x 40mm)



Illustration of IMC-150SEES00

### Envelope Dimensions –

13.5" x 21" x 9.5"  
(340 x 535 x 240mm)



**Servo Motors** – Marks up to (8) 1/8", 3mm character per second

**Ballscrew drives** – Industrial ballscrew drive for precise dot placement, protected by bellows

### Marking Window –

4" x 6" (300 x 200mm)

### Extended Head –

For marking applications requiring Part clearance

**Electric Scribe Head** – Diamond pin provides superior marking clarity and ability to provide Square-Dot® 2D marks

Visit [marking-machines.net](http://marking-machines.net) to download operation guides and additional assembly drawings.



# I-Mark™ Series

# CMT

Columbia  
Marking  
Tools

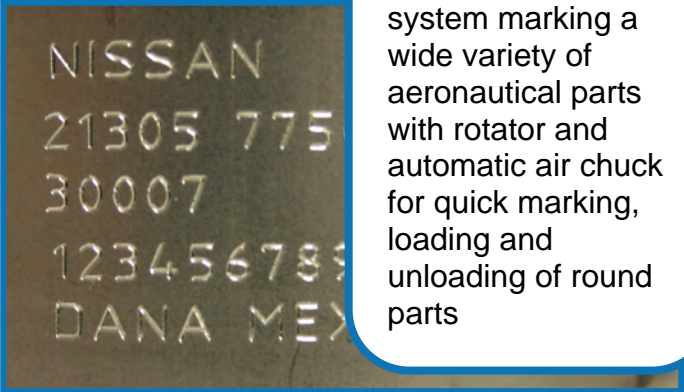
## C-Series Automation



Complete turn-key IM-C station to mark brake calipers with operator card scanner and palm button cycle start



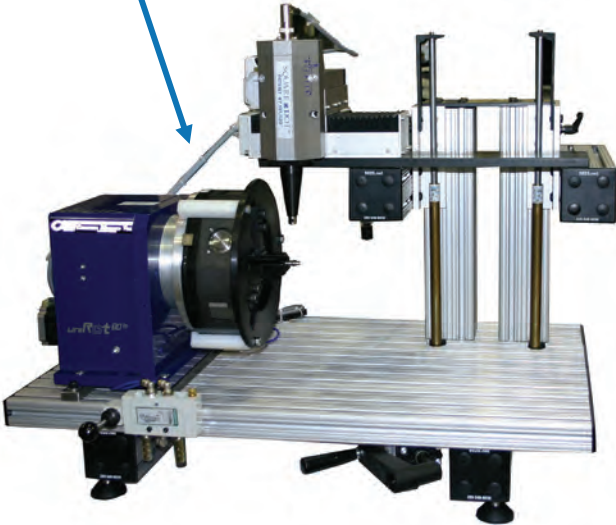
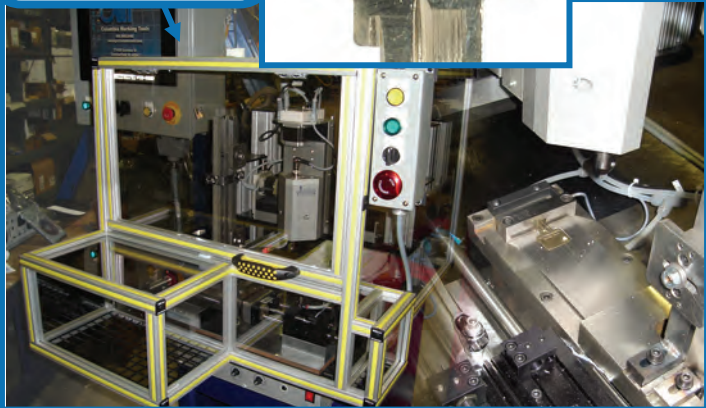
Helping you make your mark!



IM-C bench top system marking a wide variety of aeronautical parts with rotator and automatic air chuck for quick marking, loading and unloading of round parts

More custom solutions at [www.columbiamt.com](http://www.columbiamt.com)

IM-C complete turn-key station for marking keys



*Columbia Marking Tools provides complete machine design and build services to fully integrate and install custom systems.*

[www.marking-machines.net](http://www.marking-machines.net)