



# Tomorrow's marking technology...today!

#### **I-Series Silent Scribe**

"Silent Scribe" version of the popular I-Series Dot-Peen. This ball screw drive system has a marking speed of 4 characters per second in scribe mode. The systems come with two marking window options: medium and large size. This system is UID/2D Square-Dot® Compatible. The I-Mark controller uses the latest in drive technology.

Complete marking unit for integration:

- Pneumatic Scribe Marking Head in two window sizes
  - Model 200 I-Mark Controller
    - I-Mark software for programming (details page 22)
      - Power cable, Marking head cable, Cross over cable, and LAN cable



- Air and controller connection located on back of marker.
- Solid aluminum frame with ½" plates on three sides for easier mounting, all 3 pre-drilled & tapped.
- High torque stepper motors and ball screw drives for precise positioning.
- Pneumatic pin with diamond tip to mark hard parts 45 65 Rc



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



### I-Mark<sup>™</sup> Series

#### **I-Series Silent Scribe**

#### I-Series 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 Scribe	IM-IS	IIM-IS60-D-X-25
Medium Marking Window	60	]
Large Marking Window	200	
Without Shield	-	7i
With Shield	D	<u> </u>
Standard Pin	-	]ı
1" Extended Pin	X	] [
10 ft Cable	-	]
25 ft Cable	25	]

#### **Utilities:**

- Controller requires 110 VAC power, 6 ft (1.8m) electrical cord supplied
- Air power required, 8mm push-in tube fitting requires connection to air supply (30-75 PSI operating range)

#### Features:

- High torque stepper motors with ball screw drive
- 2D and Square-Dot® capable
- 2 marking windows;
  - Medium = 1.59" x 2.35" (40 x 60mm
  - Large = 3.18" x 7.87" (80mm x 200mm)
- Marking speed of 4-5 (1/8", 3mm) cps
- 10 ft (3m) or 25 ft (7.5m) cable from head to controller
- Diamond pin included Marks hard and carbide metals (up to 65 RC)
- Weight of marking head assembly: 19lbs

Illustration of IM-IS series

Envelope dimensions:

Medium - 8.44" high x 7.1" x 7.1"

(214 x 180 x 180mm)

Large: 8.44" high x 8.7" x 12.8"

(214 x 220 x 325mm)

Marking windows: Medium - 1.59" x 2.35" (40 x 60mm) Large - 3.18" x 7.47" (80mm x 200mm) IM-IS60 SCRIBE

POWERED BY I-MARK

Mounting available on three sides

Standard pin or 1" pin extension for marking in recesses

Complete detailed drawings available for download at <a href="https://www.marking-machines.net">www.marking-machines.net</a>

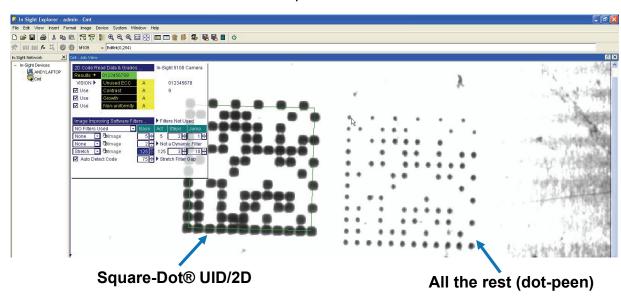
Upgrade for industrial debris shield



## Tomorrow's marking technology...today!

#### Square-Dot®

CMT's patented high resolution marking process to apply 2D/UID machine readable codes to a variety of materials. This process scribes a matrix of small square cells into the material. The mark provides the best direct part reading with a vision system as the cells are filled in similar to a laser mark but much deeper and often with better contrast.



The Square-Dot® process may be implemented with any of CMT'S I-Mark Scribe systems, these include I-Series air Scribe & the C-Series electric or air scribe.





The Square-Dot® patented process uses a diamond tip to draw squares on material to create a machine readable 2D/UID code. This technique creates both a depressed square and a raised ridge as shown below. The "filled cell" reflections create a more defined matrix as shown above, and therefore, offers better readability.

SCRIBED CELL

MATERIAL RIDGE

"successfully read 10 out of 10 attempts on a rough aluminum casting with the hand-held reader." Per vision system manufacturer test.



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#### **Options**

Available options include **part touch-off** auto-start, stands, pedestals, machine bases, vises and custom part fixtures. CMT offers custom marking solutions to include part handling and vision systems. Each of these systems is custom designed to meet application requirements.

#### **Bench Top Stands:**

- Dual or Single Post
- Manual or automatic Zaxis
- Large T-Slot mounting table
- Completely installed with CMT marking system
- Optional bracket for camera and accessories

Custom fixturing available upon request

#### **Heavy Duty floor style Machine Base:**

- All steel contruction
- Completely assembled with CMT marking system
- Palm buttons and controls mounted to machine base
- Painted machine enamel CMT blue





#### Floor mounted telescoping Pedestal:

- Designed for integration into automated production
- Adjustable stops
- Height of marking stylus 3' to 5'
- Includes tool to part locator

CAD files available



#### **Custom Designs:**

- Specially designed per application
- Includes customer specifications: electronics, safety features, part placement
- Complete turnkey station for marking and more
- 3D approval drawings



### I-Mark™ Series

#### **Options**

Part locating fixtures provide exact positioning to assure mark is placed on the proper place on the work piece. CMT provides standard and custom fixturing.

### Adjustable Vise with Master Fixture Plate

To easily position parts on standard CMT benchtop frames.

Dimensions: 4" (100mm) wide opening 4" (100mm) across jaws 1 9/16" (40mm) depth

Also included (4) t-slot feet and mounting bolts
Part Number: PRGVISE

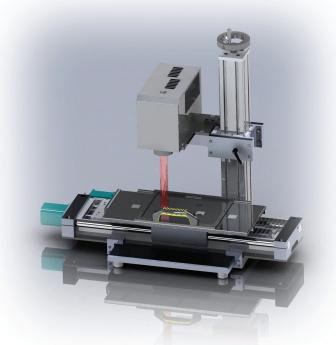
#### Adjustable Tag Fixture Plate

To provide adjustable fixture for a wide range of tags on standard CMT benchtop frames.

Tag
Dimensions:
2" - 5" (50mm 125mm)
1" - 4" (25mm
- 100mm)

Also included
(2) t-slot feet
and mounting bolts
Part Number: PLFAE3525





#### **Custom Fixtures**

Custom designed and manufactured to meet application parameters.

- Integrated Cameras
- Multi-part designs
- Turn tables with integrated stations for marking and other operations
- Linear tables
- Part handling including conveyor systems and part orientation

Custom designs provided with 3D modeling for the design approval process.

