I-Mark™

Columbia Marking Tools

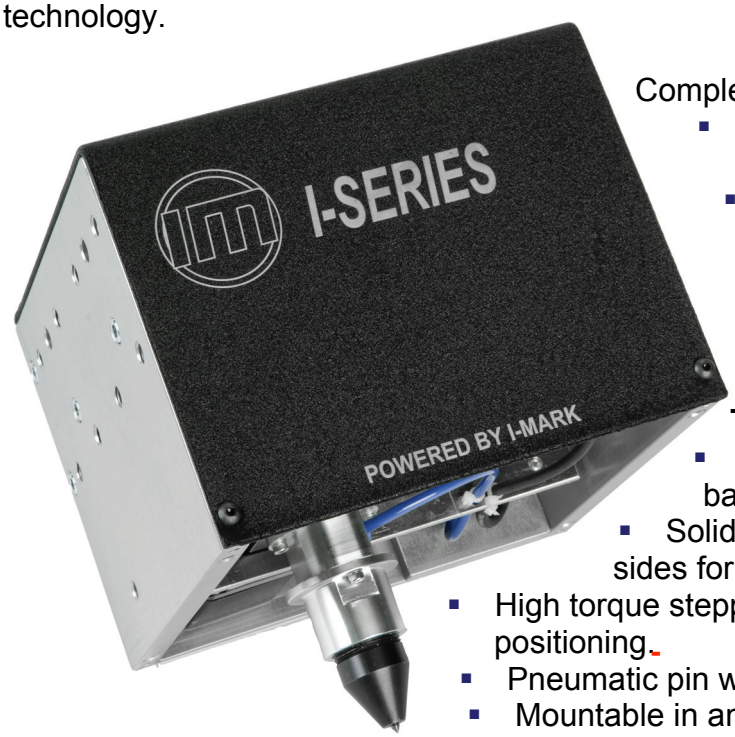
Programmable Marking Catalog

Dot Peen, Scribe & Laser

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

I-Series Dot-Peen Unit

Compact industrial integration dot peen dot-peen marking system with heavy-duty frame and linear rail guidance system to ensure precise operation. The marking speed is 3-5 characters per second. It has a very small **footprint** with 3 sides available for mounting. These systems come with two marking window options: medium and large size. The I-Mark controller uses the latest in drive technology.



Complete marking unit for integration:

- Pneumatic [**dot peen 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

The I-Mark-ID Marking Head:

- Air and controller connection located on back of marker.
- Solid aluminum frame with ½" plates on three sides for easier mounting, all pre-drilled & tapped.
- High torque stepper motors and linear rails for precise positioning.
- Pneumatic pin with carbide tip to mark materials up to 45 **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 **, etc.**
- Monitor upgrade ~~and more details page 18.~~

Options:

- Pedestal mount
- Upgrades: database and camera integration

www.marking-machines.net

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I-Mark™ Series

Columbia Marking Tools

I-Series Dot Peen Unit

I-Series Dot Peen 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 Integrator Dot Peen	IM-ID	IM-ID60-D-X-25
Medium Marking Window	60	
Large Marking Window	200	
Without Shield	-	
With Shield	D	
Standard Pin	-	
2" Extended Pin	X	
10 ft (3m) Cable	-	
25 ft (7.5m) Cable	25	

Utilities:

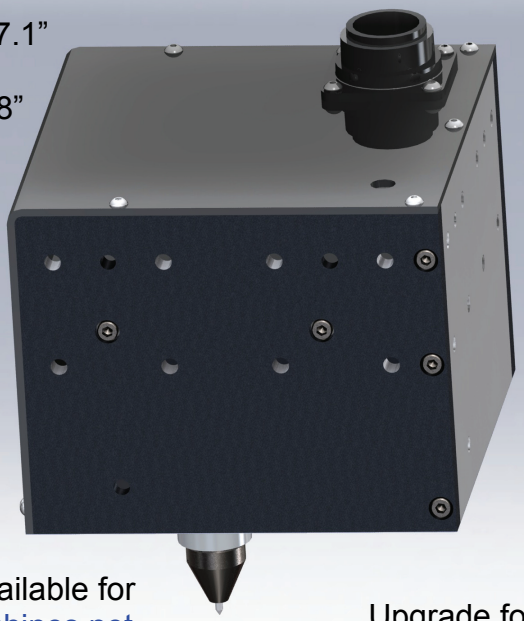
- Controller requires 110 VAC power, 6 ft.(1.8m) electrical cord supplied
- Air power required, 8mm push-in tube fitting requires connection to air supply (30-75 PSI operating range)

Features:

- High torque stepper motors with cog tooth drive belts allow mounting of unit in any orientation
- 2 marking windows;
  - Medium = 1.59" x 2.35" (40 x 60mm)
  - Large = 3.18" x 7.87" (80mm x 200 mm)
- Marking speed of 5 (1/8", 3mm) cps
- 10 ft (3m) or 25 ft (7.5m) cable from head to controller
- Carbide pin included – marks plastic, wood and metals (up to 45 RC)
- Weight of marking head only: 12.42 lbs (5.6 kg)

Illustration of IM-ID 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)



Mounting available on three sides

Marking windows:
Medium - 1.59" x 2.35" (40 x 60mm)
Large - 3.18" x 7.87" (80mm x 200mm)

Standard pin or 1" pin extension for marking in recesses

Complete detailed drawings available for download at www.marking-machines.net

Upgrade for industrial debris shield

www.marking-machines.net

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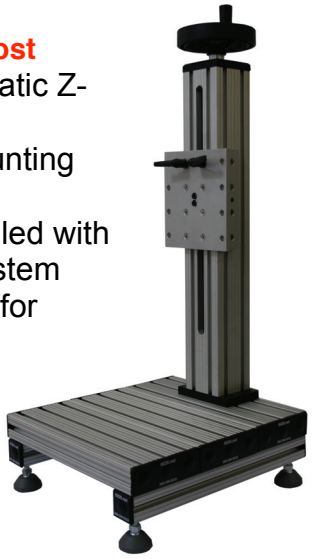
Options

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 Z-axis
- Large T-**-slot** mounting table
- Completely installed with CMT marking system
- Optional bracket for camera and accessories

Custom fixturing available upon request



Floor-Style

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

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

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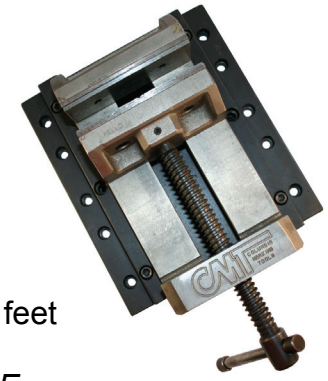
Options

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.

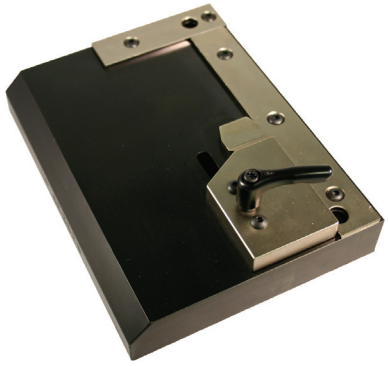


Dimensions:
4” (100mm) wide opening
4” (100mm) across jaws
1 9/16” (40mm) depth

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

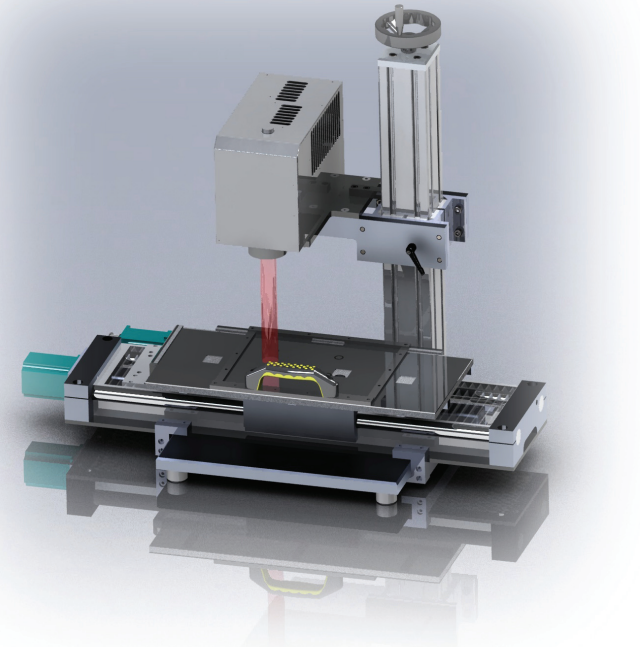
Adjustable Tag Fixture Plate

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.

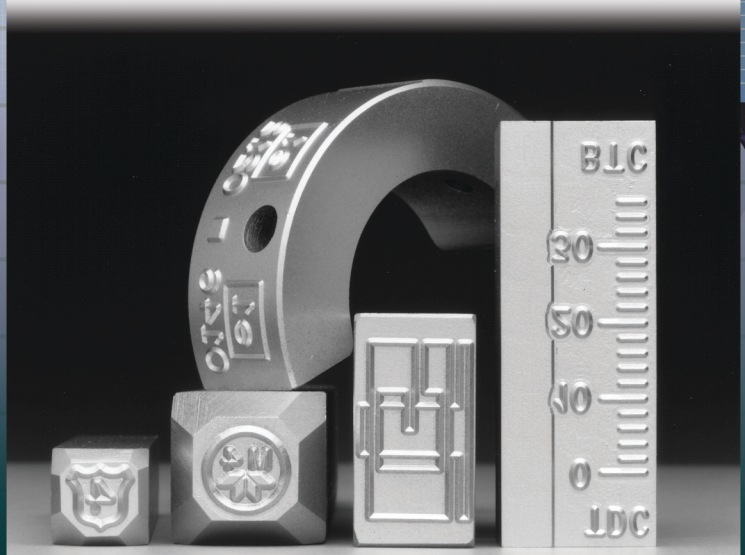
www.marking-machines.net

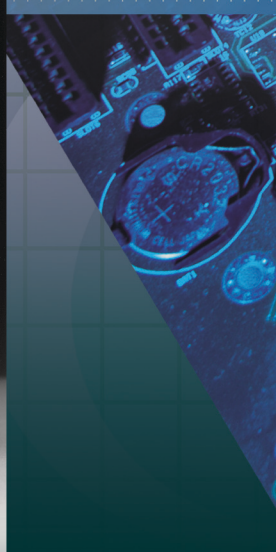
CMT

COLUMBIA MARKING TOOLS

Wide Range of Products:

Programmable Systems
Dot-Peen & Scribe
Laser
Air Impact Markers
Numbering Heads
Roll Marking Machines
Air & Hydraulic Presses
Hot Stamping Machines
Stamping Dies & Retainers
Standard Type
Hand Tools
Custom Marking Dies
Embossing Dies





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