



CMT I-Mark IMM75

Dot-Peen Marking Machine

IMM75 I-Mark Dot-Peen Marking Machine

The complete I-Mark direct part marking dot-peen machine with 3" x 3" (75 x 75 mm) marking window

The M-Series dot-peen systems marks a wide variety of metal and plastic parts with a selection of fonts for alpha/numeric, serial numbers, date codes, logos, and 2D codes. This machine features the easy to use I-Mark software.

Complete marking system:

- Pneumatic Dot-Peen Marking Head
- Bench-top stand with Standard aluminum
- T-slot table 12" x 14" (305 x 380mm) includes heavy duty column with manual vertical adjustment for parts up to 10 $\frac{3}{4}$ " (275mm) tall.
- Model 100 I-Mark controller
- Windows PC
- Free I-Mark software
- Keyboard and monitor with optional touch-screen upgrade
- Shut-off/filter/regulator
- All cables required to set-up marking station





Marking Pin Options

The M-Series dot-peen system is offered with a selection of pin styles including; standard, fixed dot, and extended.





Fixtures

CMT engineering can provide complete fixturing solutions. CMT has standard tag and vice fixtures, and offers custom designs and automated solutions.



Machine Base

CMT offers an optional all steel industrial machine base. The durable base can provide a sturdy, and molbile platform for the I-Mark M series marking machine.



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Light Curtain

Upgrades to the machine safety include light curtains and guarding. Combining the light curtain with semi-automated fixturing improves cycle time and productivity.



Rotator

Marking on the OD of round parts is possible with the 3rd axis upgrade rotator. The chuck to mount the parts comes in 3" or 5" size.



Fixed Dot - makes deeper marks

The carbide pin impacts the material with up to 900 psi. The pin has approximately 1/4" (8mm) of pin stroke. The workpiece is placed about 3/16" (5mm) away from the retracted position to assure the best mark. The pin is able to mark over uneven and curved surafeces. The single pulse provides a deep and descret mark.

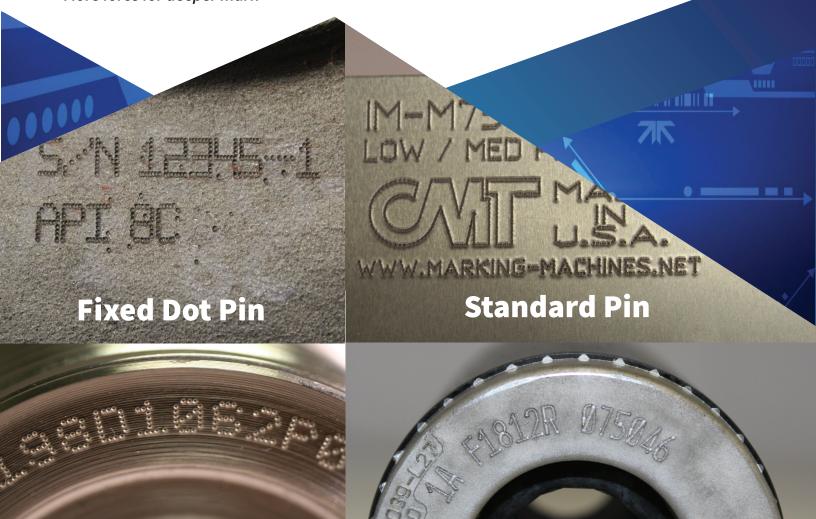
• Extra-long design for more pin throw

• Extra Mass

• More force for deeper mark

Standard Pin (includes extended configurations)

The vibrating carbide pin impacts the material with up to 700 psi. The pin has approximately 3/16" (5mm) of pin stroke. The workpiece is placed about 1/8" (3mm) away from the retracted position to assure the best mark. The pin is able to mark over slightly curved surafeces.











- IMIDPH housing and O ring
- IMIDSPRING spring
- IMIDPIN pin

1" Extended pin mountMay be used with either standard or extended pin



Extended

- IMIDPHEX10A- 1" Extended Pin assembly including:
- IM-IDPINEX10 (extended pin 1")
- IM-IDPHEX10 (Extended pin housing)
- IMIDSPRING spring
- IMIDPINex10 1" extended pin



Fixed Dot

IMFDPHA -

- Fix dot housing
- pin shaft
- shaft bearing
- spring
- shaft bushing
- carbide marking pin

Making it a complete solution

Columbia Marking Tools has a large selection of accessories that can be combine with the M series I-Mark dot-peen makring mahcine to create the complete marking station:

- Machine base
- Guarding
- Ligth Curtain





Machine Base

Part#MACHBASE

Industrial all steel machine base comes complete with castors to move machine from location to location. When purchased with the I-Mark M series the controls and stand will be mounted and preassembled.

Dimensions: 23" x 28" x 32"

Safety Upgrades

Part#IMMG1 3 sides of safety guarding

Part#IMMG2 Includes the 3 sided guarding and the light curtain on the front of the machine. The system also has a push button cycle start and E-stop.



Mi-mark

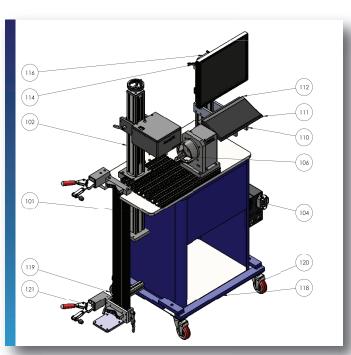
Designed to order:

• Marking head custom mounting

Height extensions

Outrigger support

• External part support.



Cutstom design to final build and test



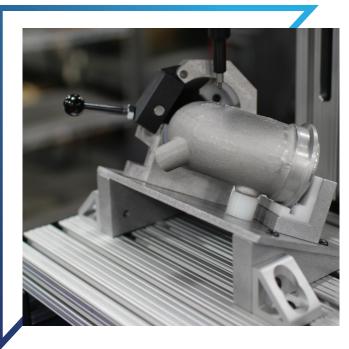
Out rigger support for long parts







Quality workholding designs are a key elements to efficient manufacturing process.



Item# PLF10 Custom fixture design includes:

- Designed for part per customer provided part print with marking location noted.
- Approval drawing for review prior to build.
- Part at proper angle to ensure marking surface is perpendicular to pin motion.
- Solid part rest with quick release mechanism.
- Commissioning of I-Mark marking machine included free with purchase of fixture
- Runoff and marking test provided to customer for review prior to shipment of machine.



I-Mark software is provided free with the purchase of any I-Mark machine. I-Mark software has a tremendous amount of horsepower, but it is extremely Windows® user-friendly and easy to operate. Simple drag-and-drop functionality makes program creation and entity sizing easy. CMT even includes several dozen video tutorials to enable the operator to refresh his/her memory if they've forgotten exactly how to do something.





The I-Mark software is used to create marking legends for all the I-Mark machines. More than marking information, the software can also control additional axis used in the marking process including rotators, and automated Z axis.

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Marking Order

✓ ⇒ Output1

✓⇒ Input1
✓⇒ Output2

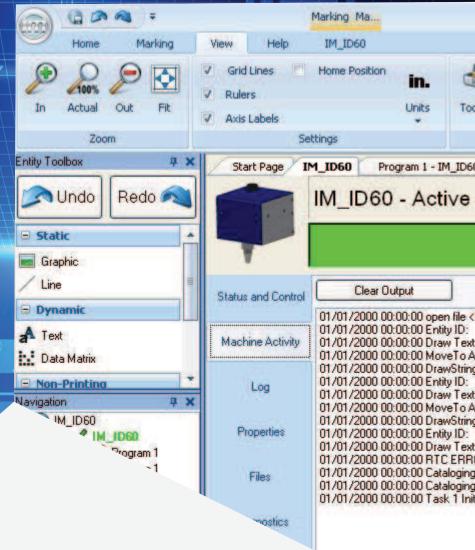
✓ ← Output3
✓ ♠ DwellTimer2

☑ ☑ DwellTimer1

DataMatrix

Innut2

✓ ♣ First✓ ♣ SEcond✓ ♣ Third



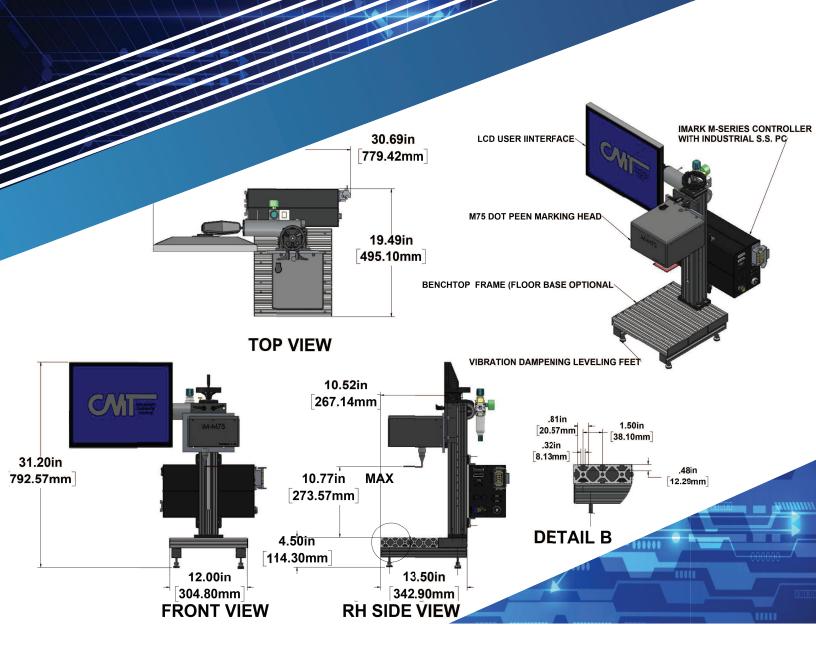
Marking Order

A wide variety of other non-printable marking utilities are also provided to set way points, inputs/outputs and even programmable dwell times. After the marking program is configured, the operator can preview the sequence of operations before actually marking and can modify the sequence if necessary.



2D Code standard

The I-Mark software creates a layout for a mark made with any combination of graphics, text, date codes, proprietary fonts or 2D UID codes including Military Specification 130. A DXF import tool is used to place required graphics in the marking layout.





Marking WIndow

The marking window is 3" x 3" (75 x 75mm). Other marking windows available: 5" x 5" (124x 125mm), 8" x 8" (200 x 200mm).



Table Height

The height of the marking head is manually adjusted. The pin can be raised to a height of 10.75 in (275 mm) over the table.



Table size

The size of the master fixture table that is included at no extra charge is 14 x 15 in (355 x 380 mm). The table uses standard 8020 T-Nuts.



Marking Speed

4-5 characters per second for the standard pin, and 2-3 characters per second for the Fixed dot pin.



- Marking head with 2 axis carbide pin
- Benchtop stand with manual Z axis adjustment
- Fixture mounting plate T Slot table
- FRL filter regulator lubricator and Air connection
- Power cable
- PC connection cable
- Windows software Free



Specifications

- Power 110 VAC
- Compatible OS WIndows XP and newer
- PC Connection USB, cable lenth 3 ft
- Compressed Air Required, 1/4 NPT
- Power Range 30 to 75 PSI





Webpage - Video - Quote Request

Made in USA by

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