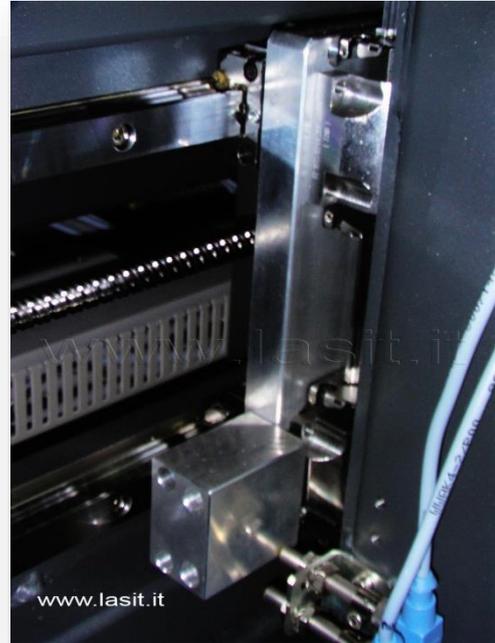




Laser Marking- Fiber, MOPA, Green, CO2 and UV

NEW AND USED LASER MARKING SYSTEMS

The CompactMark is a complete XYZ-W-K CNC Laser marking workstation designed for high accuracy marking jobs.



Accurate by design.

CompactMark is completely built on a welded steel frame to achieve rigidity and stability. The steel frame is thermally stabilized and precision machined providing the highest quality flat surface for the slide ways.

Very rigid structure

The X, Y, Z axes are over-sized for all laser applications (Laser has no contact with the part therefore there no mechanical forces applied).



High quality linear components.



Closed loop motors.

Laser Americas LLC 508 989 5090 sales@laseramericas.com

Offices: Franklin, MA, Brentwood, NH, Orlando, FL, Sarasota, FL

www.laseramericas.com

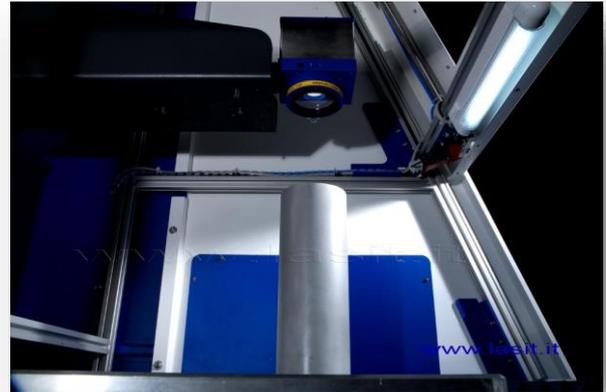
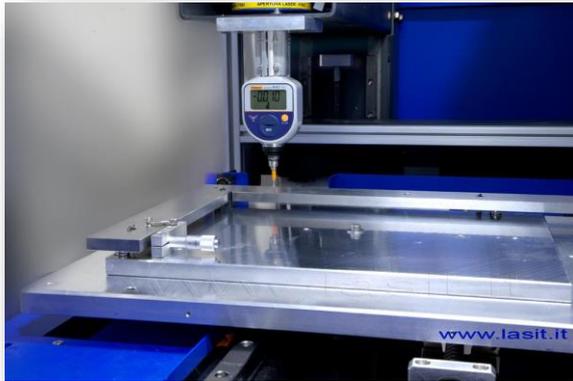


Laser Marking- Fiber, MOPA, Green, CO2 and UV

NEW AND USED LASER MARKING SYSTEMS

All the slide ways are built with re-calculating balls with preloaded for a backlash free operation. The ball screws are class ISO5 with preload for zero axial backlash.

All the motors have an integrated encoder with 2048 lines/rev. The integrated electronics continuously control the shaft's actual position to follow the programmed path exactly.



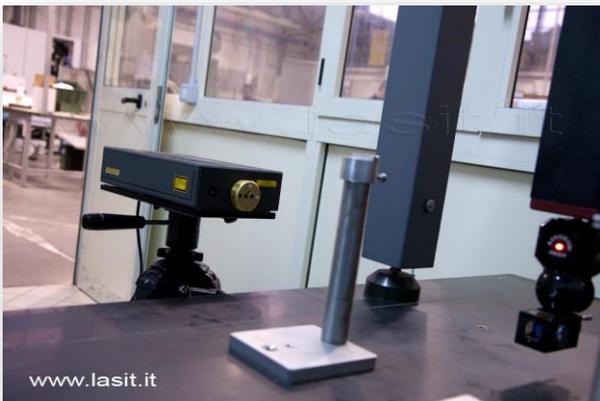
Alignment and final testing

Great detail is provided in final testing of each CompactMark system to guarantee the highest quality and complete functionality. The geometry of the machine is aligned to achieve an orthogonality between X&Y better than 20 μ m over 400mm travel.

Alignment of the Z axis

The alignment of the Z axis in reference to the marking table is precision aligned and checked for accuracy on both axes.

High accuracy version with Calibration certification



To satisfy the most stringent requirements, Laser Americas can provide a specific machine calibration with a test certificate. The positioning straightness of the motion of each single axis is measured with an interferometer. The positioning data is taken with an interval of 20 or 50 mm and the results are stored in the calibration table of the software. According to this table software commands the motors in order to compensate for mechanical errors.

Laser Americas LLC 508 989 5090 sales@laseramericas.com

Offices: Franklin, MA, Brentwood, NH, Orlando, FL, Sarasota, FL

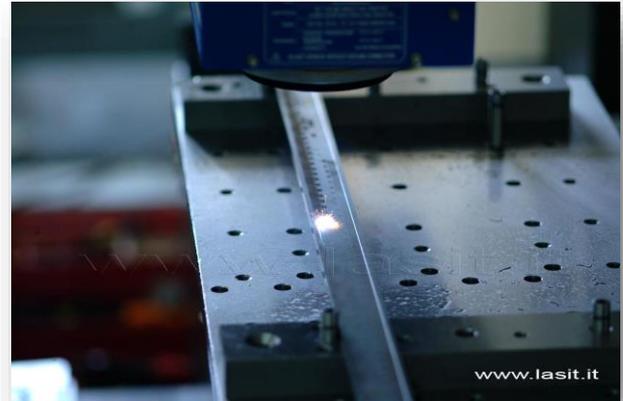
www.laseramericas.com



Laser Marking- Fiber, MOPA, Green, CO2
and UV

NEW AND USED LASER MARKING SYSTEMS

Very high accuracy machines.



The CompactMark has been manufactured and designed with special machine features for high precision type applications. The machines are built out of granite (marble) to reduce thermal distortions, improve stability and rigidity. Using granite also reduces the vibrations from the axis movement and external noise. This particular machine was used for producing calipers and high accuracy measurement tools up to 3000 mm length. The X axis with a travel of 1200mm has a repeatability better than $2\mu\text{m}$ (short term measured with Renishaw interferometer) and an overall accuracy $6\mu\text{m}$ over the entire 1200 mm (after software compensation of the Heidenhain linear scale).

Laser Americas LLC 508 989 5090 sales@laseramericas.com

Offices: Franklin, MA, Brentwood, NH, Orlando, FL, Sarasota, FL

www.laseramericas.com