

HYPERTRONICS **LASER SYSTEMS**

Laser Systems
SOLUTION PROVIDER

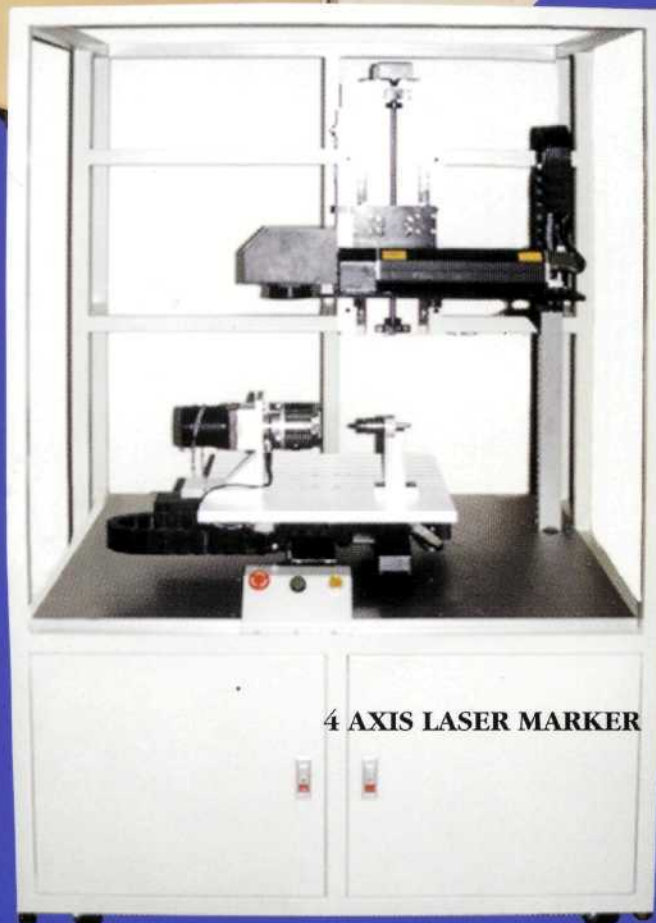
- MARKING
- ENGRAVING
- CUTTING
- OTHERS



**LASER PCB
MARKING SYSTEM**



**DIODE PUMPED
YAG LASER SYSTEM**



4 AXIS LASER MARKER

CO₂ LASER SYSTEM

GENERAL PURPOSE • VERSATILE • COMPACT • POWERFUL SOFTWARE SUPPORT



- High speed
- Excellent beam quality
- Low maintenance
- Small footprint

HT6000™

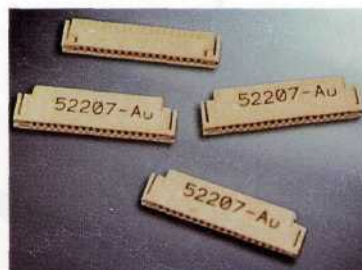
Description

The HT6000 is Hypertronics' new general purpose CO₂ laser system. This advance model is more compact, economical, with more flexible software, integrated control card for high-speed marking and is maintenance free. Only the sealed laser tube needs refurbishment after 20,000 hours. The system consists of a CO₂ laser tube, a pair of mirrors to move the laser beam, optics, a controller card and a PC to control the entire operation. The user-friendly software allows the creation of unlimited number of marking formats stored in work files. The string content and exact marking position can be programmed. Graphics can be imported through HPGL files and automatic hatching can be done in the marking software. Characters are created in programs like CorelDraw or AutoCAD and combine using a software utility into font sets. Barcodes and 2 dimensional codes like data matrix marking are also available. The PC also communicates with the handler through isolated digital signals or serial port.

Applications



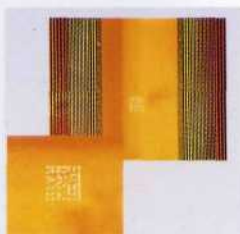
PCB Marking



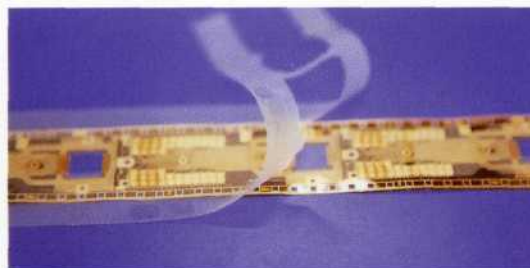
Plastic Connectors Marking



Plastic Lens Cutting



2D Matrix Marking on Flex Circuit



Plastic Film Cutting



Ceramic Marking

YAG LASER SYSTEM

Description

The HT1000 is a highly efficient Diode Pumped Solid State YAG laser system. This laser is the latest technology in the laser industry. The system consists of the highly efficient and reliable laser head, high speed scanner head, internal chiller and a PC with the controller card to control the entire system and to communicate with other system if required. External chiller is not required. The small footprint makes it easy for the integration with other system. It requires minimal maintenance and no replacement of consumable. The diodes are specified to last 8000 hours and longer without needing replacement. Marking software is **Hypermark** with features same as in HT6000 model.



HT1000™

Applications



Computer Keyboard Marking



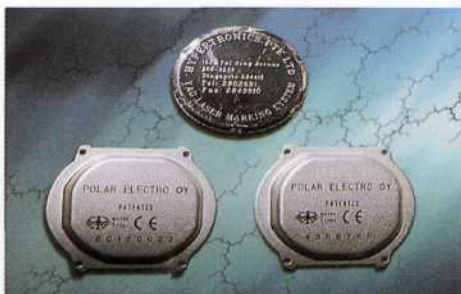
IC Package Marking



LCD Display Board Marking



Valves / Metal Marking



Watch Casing Marking / Engraving



Chrome Machine Tool Marking



Illuminated Buttons



Silicon Wafer Marking

UV Laser

- Excellent marking quality on plastic materials
- Circuit board via-hole drilling
- Flex circuit cutting/drilling

GENERAL PURPOSE • VERSATILE • COMPACT • POWERFUL SOFTWARE SUPPORT

HYPERTRONICS LASER SYSTEMS

Hypertronics is here to provide the expertise in utilizing laser technology in manufacturing and industrial environment. Established since 1991, we have built-up a team of experienced and dedicated engineers and researchers. We offer full integration service to build custom equipment with specialized software for reliability, reduce machine complexity and user friendly interface. In addition we have invested in a **comprehensive application laboratory** where we can make samples and configure prototype setups to test customers' concepts. We can provide laser systems for marking, cutting, soldering, welding and others. Our machines are now being used in countries like Singapore, Hong Kong, India, Thailand, USA, Taiwan and Indonesia. We also have a network of distributors worldwide to provide local support for our products.

Customers

Acer • Adaptec • Epson • Fomet • HCJ Quartz • HongGuan • Hewlett Packard • Molex • Polar • Seiko • Siemens Medical Instruments • Timken

Advantages of laser system

- High quality marking, uniform depth and good contrast visibility
- Permanency - does not fade with constant rubbing
- High accuracy, high speed and high repeatability
- Automatic, programmable and able to mark small detailed logo and graphics
- Able to mark dense barcodes since laser spot size is small
- Minimal maintenance - no solvent or replacement of consumable
- Marking data is generated by a computer at the instance of marking
- Easy to install and operate with user friendly software
- Easy to integrate

Option

- Automated and semi-automated handlers can be developed to transport work pieces into and out of the marking station
- 2D data matrix code and linear barcode readers
- Vision system to check and compensate for fiducial drifts and to ensure correct orientation of work piece
- Customized software to suit special requirement



RESEARCH EQUIPMENT



50 Watts CO₂ LASER SYSTEM



METAL CAN LASER SYSTEM



EXCELLENT SERVICE WITH PROFESSIONALISM