KEKO

CHOSEN BY LEADING
COMPONENT MANUFACTURERS
WORLDWIDE

Laser drilling and cutting machines for green cerramic processing

LM - series

- High processing speed
- Suitable for drilling vias or cutting any shape in green ceramic sheets
- Different laser sources available: IR, Green or UV laser
- High precision optics and beam positioning system ensures high accuracy
- Proven mechanics equal to punching machines
- Roll to cassette or cassette to cassette handling type

SUITABLE FOR PRODUCTION AND LABORATORY PRODUCTION

Laser processing machines are suitable for drilling vias or cutting rectangular or any other shape for cavities in to green ceramic tape. High processing speed and no tool wearing, makes laser processing very competitive compared to mechanical punching. Three laser types source are available. A fiber laser source for general green oxide ceramic processing and a high power green UV (nano or picosecond pulse rate) laser source for most demanding applications. State of the art laser source, beam position systems and optics are installed in order to active defined and long-term repeatable processing result. Proven machine mechanics and tape handling, equal to our mechanical punching machines, make them very competitive.

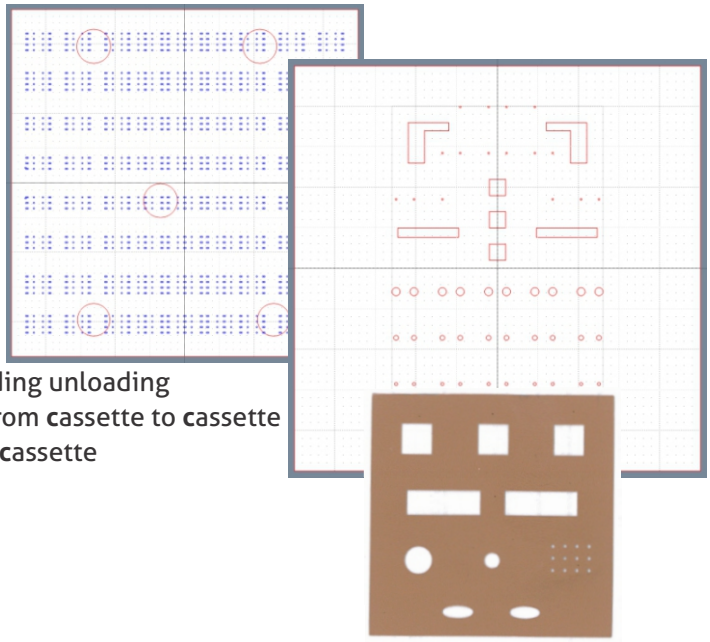
Green ceramic tapes contains differend ceramics and different organic, therefore we recommend to perform laser drilling or cutting test on particular material.

Technical specification:

- Laser beam positioning principle: Scanning head
- Scanning head processing area: 100x100 mm max., recommendable 50x50 mm, custom areas possible, 10inch foil
- Total processing area: up to 250x250mm or 10"x10" by moving sheet
- Maximal tape thickness: 500 microns
- Minimal drilling diameter:
  IR laser: 60 microns
  UV laser: 30 microns
- Processing speed: 20 to 800 vias/second
  Processing speed depends on many parameters like: via diameter, tape thickness, process parameters, laser source
- Control: PLC+PC
- App. dimensions: L x W x H: 2.1 m (83 inch) x 1.8 m (71 inch) x 2,2 m (86 inch) (depends on machine version)
- Electricity: according to the customer requirements
- Power: app. 4 to 6 kW
- Compressed air: 0.6 MPa, 100 l/min.
- Vacuum: -0.09 MPa (0.01 MPa absolute), 200 l/min.
- Exhaust: exhaust connection required, 400 m^3/h min.

Options:

- Tape cleaning after laser processing
- Barcode printer
- Barcode reader



How to order: *

LM - xxx

- Tape handling: **M - m**anual loading unloading
  CC - automatic from **c**assette to **c**assette
  RC - from **r**oll to **c**assette
- Laser type: **U - UV** laser
  I - IR laser
- Sheet size: **4**, **6**, **8**, **10** inch
- **Laser Machine**

* **Options and other requirements have to be specified separately.**

KEKO

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