

## Automatic Micro-Hole Punching Machine (Model : SAP-200B)

The HANSUNG SYSTEMS' AUTOMATIC Micro-Hole PUNCHING MACHINE (Model SAP-200B) is designed for R & D works and small quantity sample work in the perforation of precise holes in the ceramics green tape or thin materials.

**Applications :** R & D Works for Multi-layer Ceramics Package., Chip Inductor., Multi-layered RF module. Multi-layered thick film sensor, LTCC, Multi-layered RF module. Multi-layered thick film sensor.

**Model SAP-200B** has followings features;

- **Operation is simple:**
- **Model Changing is simple and quick:**
- **Punching Tool changing is quick:** You can change over a complete punch assembly in less than a minute
- **Hole quality is excellent:** There is no puckering around the punched hole.
- **The Price is right:** You will be pleasantly surprised- all this quality, performance and easy programming for much less than competitive system.

Provide Toolings :

- 1). Round Hole : from 0.15 mm (150  $\mu\text{m}$ ) to 7.50 mm
- 2). Square Hole : from 0.50 mm<sup>2</sup> to 6.25 mm<sup>2</sup>
- 3). Other combination and sizes available depending on user application.  
(Please, contact to us.)



**AUTOMATIC Micro-Hole PUNCHING MACHINE (Model SAP-200B)**

CAT No. 020406

## Machine Specification (Model SAP-200B)

1. Twin Head Type (Standard) : No.1 Head Assy. – Guide Hole 3.00 mm dia.  
No.2 Head Assy. – Via Hole 0.200 mm dia.
1. POSITIONING SYSTEM: Punching through Numeric control. Resolution : 0.001 mm (1  $\mu$ m).
2. AC SERVO MOTOR & CONTROLLER.
3. PUNCHING RANGE : MAX. X-Axis 200 mm.  
MAX. Y-Axis 100 mm.
4. PUNCHING REPEATABILITY : MAX.  $\pm$  20 $\mu$ m.  
The Maximum tolerance of positioning is from acceleration and de-acceleration by  
when LOAD : 20Kgf and Velocity :400mm/sec.
5. PUNCHING speed (cycle time) : 3 holes/sec..
6. MAXIMUM PUNCHING POINT : 1,998 point./Program.  
Controller can get 1,998 ponit data in one time
7. PUNCHING POINT INPUT :.  
DATA input to over IBM personal computer over 486DX computer.  
DATA input by ASCII code.  
DATA input by EXCELL data.
8. Communication between Personal Computer and Machine.: RS232C.
9. Software : Machine software in Window 95/98/98SE/ME/NT
10. Computer : over IBM personal computer 486DX (Option)
11. UTILITY : - Power : 110 / 220 VAC. MAX. 0.5 KW  
- Compressed Shop Air : Min. 5.5 Kgf/cm<sup>2</sup>

### **MANUFACTURER :**

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\* Above Specification will be changed without notice for machine improve .

