

## Safety Devices and Other Features

The FD 87HD is equipped with various safety features:

### Automatic Reverse

If the hard drive cannot be punched, the motor will automatically switch into reverse to prevent damage to the punching die.

### Door Open / Safety Shield Open

If the door or safety shield is open, the machine will not operate. Close the door or safety shield and press start to resume punching.



### Waste Bin Full

When the waste bin is full of punched hard drives, a weight sensor will activate the "FULL" light on the control panel. Open the door, remove the waste bin and empty it. Replace the waste bin, close the door and continue operation.



## Maintenance

- Disconnect power by pulling power cord plug from wall outlet.
- To clean the exterior, wipe the surface with a soft cloth. If the surface is very dirty, use a neutral detergent, then wipe again with a soft cloth.

### CAUTION:

- Never put water directly on the surface of the machine.
- Never clean the case with benzene or thinner, since it will cause discoloration.
- Do not dismantle the machine. Contact your Formax Dealer for service.

## Troubleshooting

If the hard drive punch will not operate, check the following:

Is the machine plugged in?	Plug machine into appropriate outlet.
Is the power switch in the ON position?	Switch power to ON.
Is the safety shield open?	Close safety shield.
Is the cabinet door open?	Close cabinet door.
Is the waste bin full?	Empty bin, replace and close door.

# FORMAX<sup>®</sup>

## FD 87HD Hard Drive Punch



OPERATOR MANUAL  
FIRST EDITION

## Specifications

Punch Hole Size:	.39" (10mm)
Hard Drive Size:	2 1/2" or 3 1/2"
Feed Opening:	4.65" (118mm)
Punching Cycle:	14 seconds
Dimensions:	19.68" W x 18.5" D x 35" H (500 x 470 x 890mm)
Weight:	154 lbs. (70kg)
Security Level:	H-3 (DIN 66399 standard)
Power Supply:	110V, 50-60Hz

## Set-up Guidelines

1. Install the FD 87HD on a level surface, away from heat sources and direct sunlight.
2. Insert plug into wall outlet with the appropriate voltage, 110V. If the outlet is shared with another electronic device, the total current should not exceed 30A (at 110V).

## Operation

1. Flip the power switch "ON", located on the right side of the machine.
2. Slide open the safety shield on the top of the cabinet (Fig. 1).
3. Insert a hard drive into the punching chamber (Fig. 2). The chamber automatically adjusts for 2.5" or 3.5" hard drives.
4. Slide the safety shield closed.

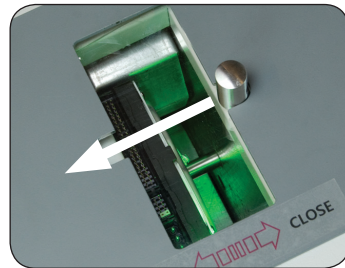


Fig. 1



Fig. 2

5. Press the green START button on the control panel (Fig. 3). The punching chamber will be illuminated by LED, and the punching die will puncture the hard drive. After a brief pause, the die will reverse direction. Once this has happened and the light goes out, the process is complete.

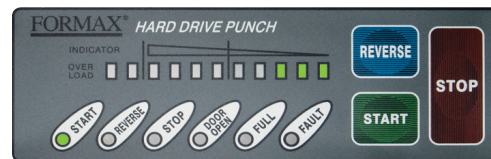


Fig. 3

6. Press the release button (Fig. 4) and the punctured hard drive will drop into the waste bin (Fig. 5).



Fig. 4

### 7. Auto Reverse

In case of a jam, the FD 87HD is designed to operate in reverse, to protect the punching die.

### 8. Door Open / Safety Shield Sensor

The control panel "Door Open" LED will indicate if the door is open or if the safety shield is open. The machine will not operate until both are closed.



Fig. 5

### 9. Waste Bin Full Sensor

If the waste bin is full, the "FULL" lamp will light and the FD 87HD will stop automatically. Open the door, empty the waste bin, replace the waste bin, close door, and continue to punch.

## Safety Precautions

To avoid personal injury, and damage to the hard drive punch, observe the following safety precautions. Please keep these instructions for future reference.

**NOTE:** In case of emergency, flip the "Power Switch" to cut off power and/or pull the plug out of the wall outlet.



- Keep hands, long hair, clothing, ties, jewelry and loose items away from the punching chamber.
- Do not use the hard drive punch for anything other than its intended purpose.
- Do not allow children to use the machine.
- Do not operate with a damaged power cord or plug, or when the machine is damaged in any manner.
- Unplug the hard drive punch when it is being moved, or if it is not in use for an extended period of time.
- Do not disconnect the power by pulling only the cord. Hold the plug when disconnecting.
- Keep the machine away from direct sunlight.
- Do not sit on the machine or place anything on top of it.
- Never open the fixed switch or cover.