

AUTOTAB WIRE MARKING SYSTEM

The Eubanks AutoTab is a wire marking system like no other.

- It's automatic.
- It changes printing discs quickly and accurately.
- It places markings exactly where you want them.
- It's reliable.

COMPUTER CONTROLLED

The AutoTab is a computer-controlled hot stamp wire marking system. Its printing discs are set automatically, along with wire length, batch count, distance between marks, placement of marks, air pressure, dwell time, wire drive speed, and acceleration and deceleration rates. Setup data may be entered

from a keyboard on the machine or remotely through the machine's RS232 interface. As many as 90 programs of computer-controlled functions may be stored in memory, which has a battery backup. Additional programs may be stored off-line and downloaded from a separate computer.



AutoTab equipped with spark tester and cut and strip module is shown with optional prefeed and powered coiling pan. Machine can be programmed from its own keyboard or from a host computer.

AUTOTAB WIRE MARKING SYSTEM

HEAT CONTROL

Printing disc temperature is set by a controller with a deviation indicator mounted on the front panel. Temperature may be set in either Fahrenheit or centigrade to maximum of 600 F (315C).

WIRE SIZE

.030" to .150" O.D. standard. Up to .300" O.D., depending on wire type, with modification kit.

BATCH COUNT

From 1 to 99,999 wires.

WIRE LENGTH

2" to 99,999" in increments of .01" or 2 mm to 99,999 mm in .01 mm increments.

WIRE SPEED

Wire drive speed and acceleration and deceleration rates are all controllable from the keyboard.

POWER REQUIREMENTS

Electrical—115 VAC, 10A, 50/60Hz or 230 VAC, 5A, 50/60Hz.
Compressed Air—80-100 psi, minimum of 1/2" I.D. air line. Uses approximately 20 cfm when cutting short lengths or marking at short intervals.

WEIGHT

Net: 300 lbs.
Shipping: 500 lbs.

DIMENSIONS

49" wide x 25" deep x 39" high (45" high with spark tester) plus monitor.

STANDARD EQUIPMENT

Mounting base, 10 printing discs, three anvils, keyboard, monitor, wire straightener, splice, knot and motion detector, RS232 interface, three instructional video tapes, and an

operating and maintenance manual. A set of blades and a strip block are supplied with machine equipped for cutting and stripping.

OPTIONAL EQUIPMENT

Motorized coiling pan, up to 20 additional printing discs, prefeed, large wire modification for cut-and-strip version.

CONFIGURATIONS

The AutoTab may be ordered in any of several configurations:

1. Mark and cut to length...#77505-01*
 2. Mark and cut to length with spark tester...#77510-01
 3. Mark, cut and strip...#77605-01
 4. Mark, cut and strip, with spark tester...#77610-01
 5. Mark and show cut point**...#77215-01
 6. Mark and show cut point, with spark tester...#77225-01
- * Substitute -02 for -01 in any model number to specify 230 VAC.
** Used for continuous filament harness laying. Machine has a separate marking device in place of cutterhead.

SPARK TESTER SPECIFICATIONS:

Output Voltage	1-5KV R.M.S., adjustable.
Maximum Load Current	Resistive, 4ma. Capacitive, 40ma.
Output Frequency	2500 to 3500Hz., depending on load capacitance.
Metering	0-5 KV R.M.S., accuracy ± 2% of full scale. May be calibrated with a standard electrostatic voltmeter.
Fault Resolution	40 milliseconds



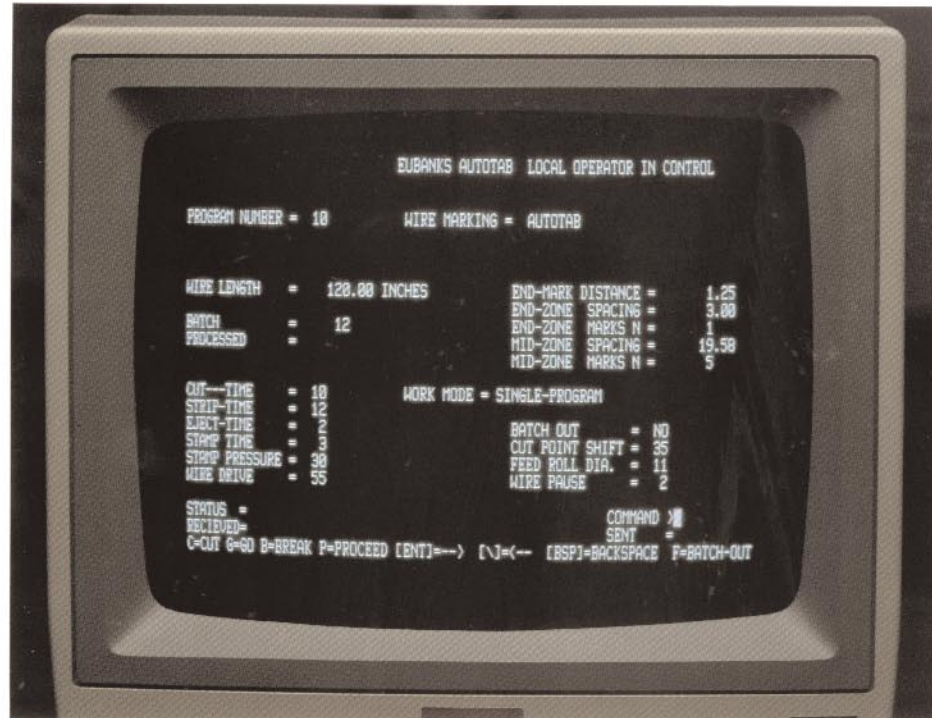
Ask for free video showing the AutoTab in action.

Eubanks

QUALITY + INNOVATION

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THE AUTOTAB CHANGES TYPE AUTOMATICALLY AND PLACES YOUR MARKS EXACTLY WHERE YOU WANT THEM.



Monitor displays all computer-controlled functions. These may be changed from machine keyboard or host computer. Machine stores up to 90 programs.

RAPID DISC CHANGE

Servo motors select and rotate the printing discs. The computer remembers the disc positions, eliminating the need for "homing" and minimizing disc movement. Ten discs can be rotated the maximum amount of 180 degrees in 6 seconds, and 30 discs in 18 seconds. In practice, discs are usually rotated only a few degrees and only a few discs are changed at any given time. For example, a change might involve moving three discs a distance of five characters each. This would require 1.2 seconds.

ACCURATE MARK PLACEMENT

With the AutoTab, you can place your marks exactly where you want them. You can specify:

1. The distance from the wire end to the first mark
2. The number of closely spaced marks near the wire ends
3. The distance between marks at wire ends
4. The distance between marks in the center of the wire (mid-zone).

A typical program might have four markings at 3-inch intervals at each end of the wire, with the first markings two inches from the wire ends, and mid-zone markings spaced 12 inches apart.

FAST WIRE MOVEMENT

A servo motor moves the wire at a maximum rate of 71 inches per second, with high speed acceleration and deceleration between marking cycles. Production rates vary with wire length and the distance between marks. As an example, wires 36" long with marks every 3" can be produced at a rate of 1,000 per hour.

RELIABILITY

Eubanks has built a reputation for producing efficient and dependable wire preparation equipment over a period of more than 30 years. The AutoTab is built to give service that will enhance that reputation.

HOT STAMP MARKING

The machine uses heated printing discs and marking foil to mark wire

legibly and permanently. By providing positive, easy-to-read wire identification, the AutoTab permits the exclusive use of white wire (or wire of a single solid color), thus eliminating time-consuming processes, such as tagging or sleeving, and the need for stocking wire of various colors. (See Tab Wire Marking Machines brochure for detailed information on available type sizes, anvils, etc.)

CUT & STRIP CAPABILITY

The AutoTab is available with a Eubanks cut and strip module for stripping either one or both ends of a wire with either die-type or V-type blades. Strip lengths of 1/8" to 1/2" on one or both ends are available or a maximum of 1" on one end. Wire must be semi-stripped if strip length exceeds 3/8".

SPARK TESTER

An optional high frequency sine wave spark tester is available for testing the integrity of the wire insulation after marking. If the insulation fails the spark test (because of excessive disc temperature, pressure or dwell time, or for other reasons), the machine will stop, then it will mark the wire in the same spot three times to create a smudge, and feed an 18-inch length of wire to clear the machine of the damaged section. The monitor will display an error message, calling the operator's attention to the problem.

SPLICE AND MOTION DETECTOR

A sensing device through which the wire passes before it is marked, will stop the machine and send a fault message to the monitor if it detects a knot or bulge in the wire, a bare, uninsulated section, or an absence of wire. It also has a motion detector which will stop the machine if the wire fails to move.

ERROR MESSAGES

Error or fault messages are displayed on the monitor to indicate the following conditions:

- Lack of compressed air (safety shield raised or compressor off)
- Wire fault (splice and motion detector senses splice, knot, bare wire, absence of wire)
- Insulation damage (spark tester)
- End of foil
- Disc misalignment (disc lock not in place)

When a fault occurs, the machine will not operate until the condition is corrected.

COMMUNICATIONS WITH HOST COMPUTER

Software is available for communication between a PC computer and the machine. This permits operation of the machine from the host computer and provides for free transfer back and forth of control and messages. If the machine detects an error while it is under the control of a host computer, control is automatically transferred to the machine operator, who can transfer control back to the computer after correcting the fault. This software can be used as a model for developing software for control by other computers.

CHARACTERS

Printing discs have 39 characters (alphabet, numbers, right and left arrows, and a dash) plus a blank. Discs with other characters can be made to order. Ten printing discs are supplied as standard equipment. Up to 30 discs may be installed.

STAMPING PRESSURE

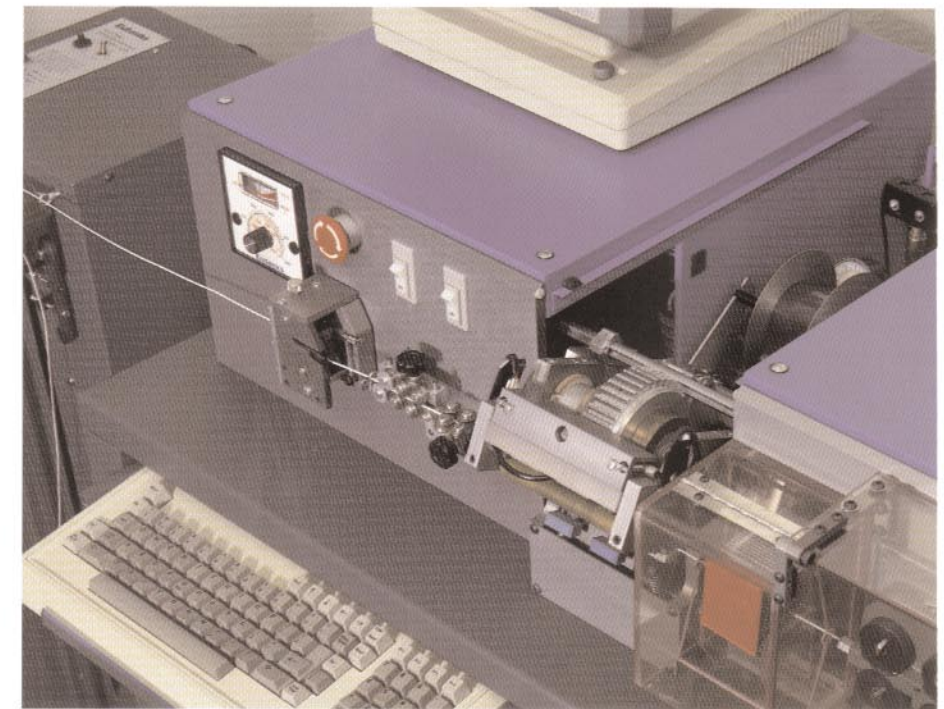
Stamping pressure ranges from 0-90 psi and is computer controlled.

DWELL

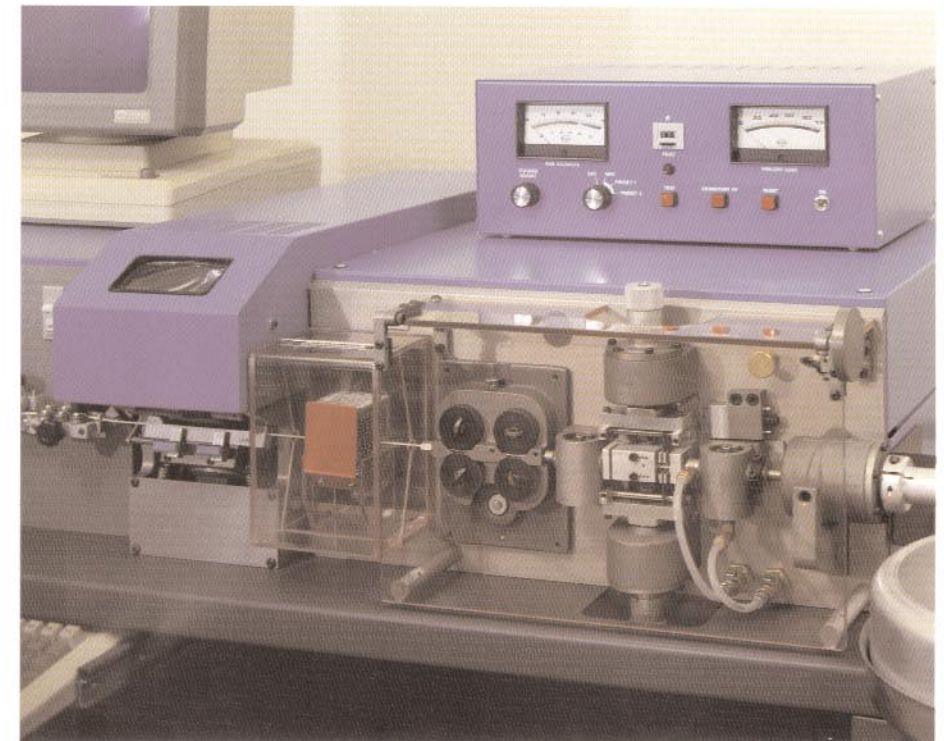
Dwell-time of the wire against the foil and printing discs is computer-selectable from 10 to 1,000 milliseconds.

FOIL FEED

An adjustable foil mechanism moves the foil forward each time the machine cycles. It will accommodate foil in rolls from 1 1/2" to 3 1/2" wide and up to 600' long. An end-of-foil detector stops the machine when a new roll of foil is needed.



Detector (below red switch) stops machine if it detects a knot or a bare splice, or if wire does not move. Marking head, shown with cover removed, can have as many as 30 printing discs.



High frequency sine wave spark tester (red rectangle) subjects wire to high voltage, stops machine if insulation breakdown is detected, and locates wire fault. Tester controls are shown on top of cabinet and cut and strip mechanism at right.