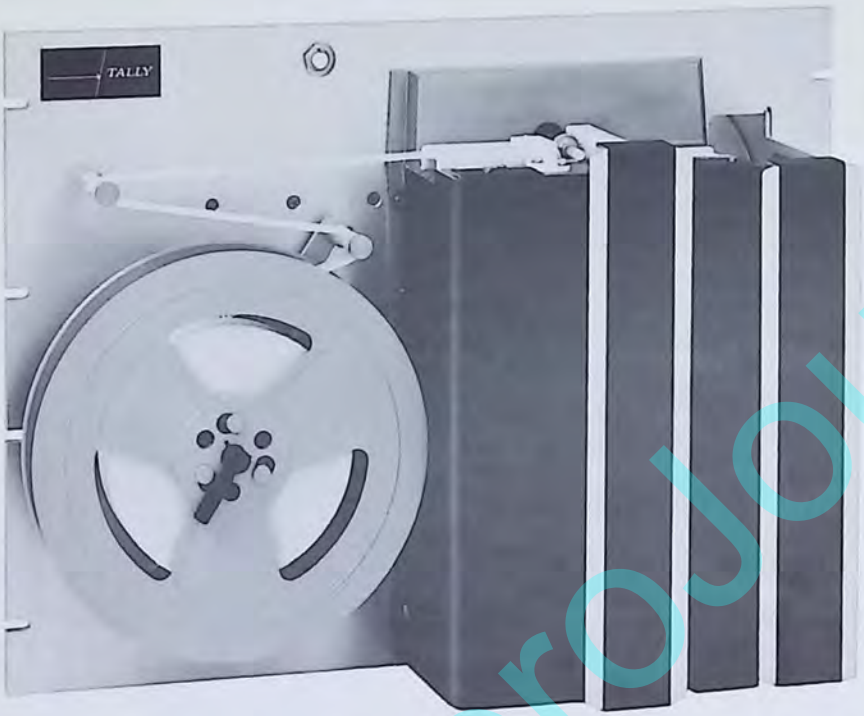
TALLY MODEL P-120 PAPER TAPE PERFORATOR

TALLY P-120
PAPER TAPE PERFORATOR



A new version of the standard P-120 is the rugged P-120A which has been designed to fulfill the rigid requirements associated with accurately perforating Mylar laminates and aluminized Mylars as well as those applications punching continuously at maximum speeds over a long period of time.

To insure long life and minimum maintenance, the P120A contains an internal oil and air cooling system utilizing a circulating pump and radiator assembly to cool and lubricate the moving parts.

The Tally P-120 Tape Perforator is designed ot meet performance and price criteria for all high speed perforated tape systems. The P-120, which operates asynchronously up to 120 characters per second, is ideally suited for use as computer output where its speed and self-checking capabilities make it the most outstanding tape output device available today. Other significant applications are found in high speed data logging, data transmission, computer output, and nuclear analyzer systems. The P-120 is a key element in tape duplication and verification systems designed to prepare multiple tapes for numerically controlled machine tools, automatic checkout systems, and other digitally programmed systems.

Tally offers two configurations in the Model P-120 perforator: the standard P-120 and a heavy duty version, the P-120A, the latter designed for use with Mylar and metalized tapes as well as those applications requiring punching continuously at maximum speeds over a long period of time.

The outstanding optional feature of both perforators is their ability to detect perforating errors. While tape is being perforated, error control can be exercised by either bit echo or checking odd or even parity. The motion of each punch pin is mechanically sensed as a character is being punched. If an error appears, the tape advance pulse can be inhibited and the erroneous character overpunched with a delete code before the tape advances.

The compact, panel mounted P-120 series perforators feature integral tape supply and take-up reeling with a capacity of 1,000 feet. Front tape loading is the quickest and easiest on the market today. An added virtue of the shielded packaging is a significant reduction in the possibility of radio frequency interference.

Standard units have unidirectional tape advance but an optional remote tape backup is offered. Asynchronous operation eliminates the need for synchronizing an associated system with the cyclical rate of the perforator.

Reducing the number of moving parts (compared to other perforators) on the highly accessible frame has resulted in a significant increase in reliability and at the same time allows much easier maintenance.

OPERATION

The Tally P-120 Perforator features a number of design and manufacturing advances which contribute to a long and trouble-free life. Most significant is a new mechanism in which most of the parts are working one-third as hard as they did in previous designs.

Here's how it works: to record a character, an electric pulse is simultaneously applied to the electro-magnets of the actuator assemblies controlling the punch pins for a given character. When the electro-magnets are energized, the corresponding armatures are momentarily disengaged from the clutch control sleeves, permitting the clutch assemblies to rotate one-sixth turn. The gear on the periphery of the clutch assembly rotates the corresponding eccentric one full revolution, sending its punch pin through one up-and-down cycle to perforate the tape.

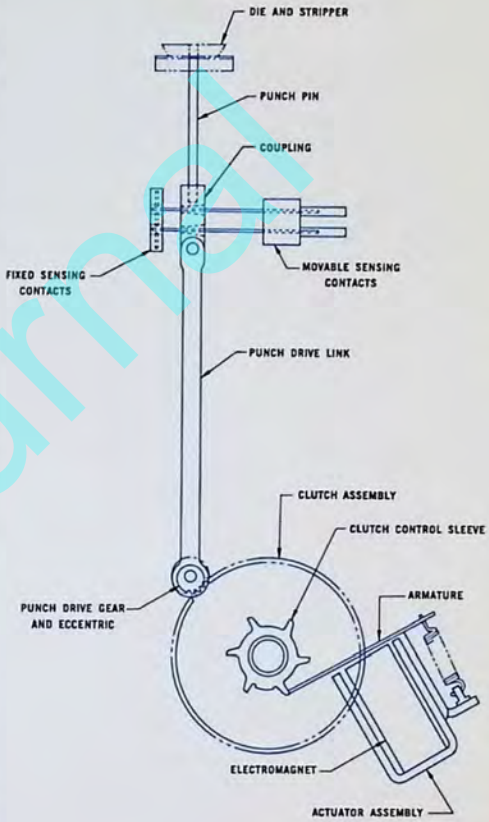
Before the clutch assembly completes the one-sixth revolution, the armature has been released, engaging the clutch control sleeve and stopping the rotation of the clutch assembly.

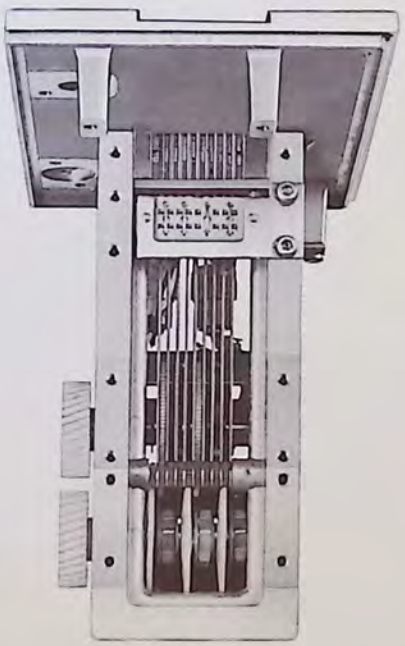
DESIGNED FOR LIFE

There simply is no more reliable perforator than the Tally P-120. Die blocks of extremely high quality are used with punch pins precision honed and individually fitted for long life. Bit Echo contacts are fitted through a plastic "window" in each punch linkage to provide a positive indication of the movement of the punch pin. The contacts themselves are made of precious metal for long life and corrosion resistance. The chad auger insures efficient chad disposal. Oil splash lubrication minimizes wear and optimizes perforator operation.

EASE OF MAINTENANCE

The metal enclosure surrounding the perforator mechanism is completely removable from the front. The exposed mechanism is ready for service as shown in the inset photograph. Each of the four coil and clutch banks can be individually removed from the frame for maintenance and adjustment. Each bank has its own connector to simplify removal and allow adjustments with maximum ease and accessibility.





SPECIFICATIONS P-120 PAPER TAPE PERFORATOR

Speed: Variable from 0 to 120 characters per second

Standard Code Channels: 5, 6, 7 or 8

Tape Supply: 8″ reel—1,000′ capacity

Tape Take-Up: 8½″ reel—1,000′ capacity
Other reel options available

Code Hole Size: 0.072″ diameter on standard 0.1″ centers

Feed Hole Size: 0.046″ diameter on standard 0.1″ centers

Alignment: Code holes and feed holes have a common center line
Teletypesetter alignment optional

Standard Tape Widths: 0.687, 0.875 and 1.000 inches

Input Pulse Requirements: Data, sprocket, and tape advance 48v, 74 ohm, 1.8±0.2 ms.

Drive Motor: ⅛ hp, 115/230v AC, 50/60 cps
Average run current: 2.2 amps @ 115v, 60 cps or 1.3 amps @ 230v, 50 cps

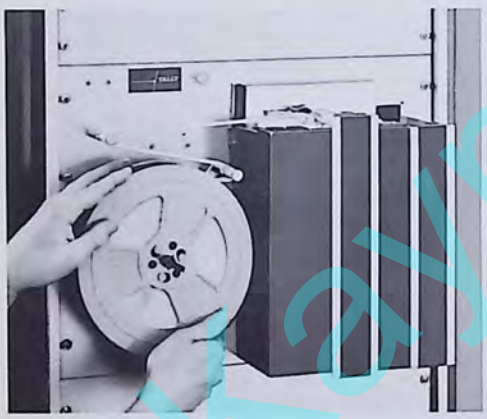
Termination: 34-pin connector, mating connector supplied

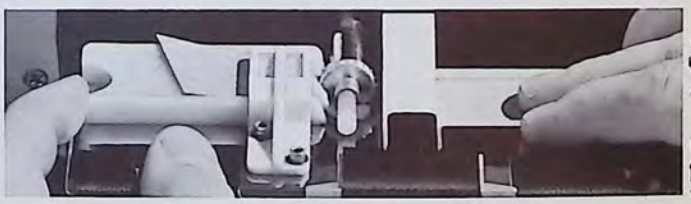
Dimensions
Standard RETMA Panel: 19″ w x 14″ h
Extends 5″ to the front, 9″ deep
Weight: 38 lbs.

OPTIONS

Remote Backspace
Error Checking—Bit Echo
Error Checking—Electronic Parity
24 Volt Operation
Low Tape Sensor
Panel Edge Milling
Five Channel Operation
Solid State Drive Package
End of Tape Sensor
Tape Motion Sensor
Teletypesetter Configuration
Mil-STD-188B Configuration
Painted Panels

A simple tape loading procedure is one of the features designed to make the perforated tape user's life easier. To feed the tape through the perforator head initially, simply press the guide release and slide the guide out. Then the tape is easily threaded through the punch head. Once threaded, slide the guide back to its original position and it snaps in place.





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