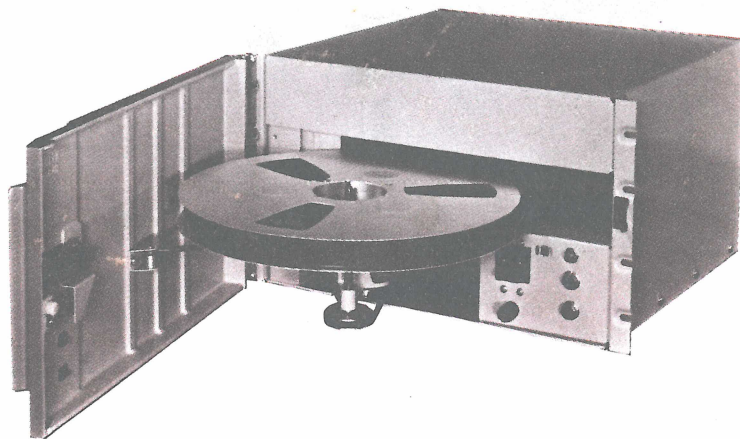


AMPEX

SE-10 automatic bulk tape degausser



The Ampex SE-10 is a heavy duty Automatic Bulk Tape Degausser that provides at least 80-db erasure of previously recorded data and noise. It will operate from either 60 or 50 cps power. Cycling rate of the unit is $1\frac{1}{3}$ minutes or less at 60 cps, with a total capacity of approximately 25 reels per hour. Degausser will handle 7-inch plastic reels and $10\frac{1}{2}$ - or 14-inch NAB reels of $\frac{1}{4}$ -to 1-inch tape. Adaptors for IBM reels are available. The SE-10 comes in two models: one for tabletop use and one for rack mounting (recommended where one or more machines are located near each other). The table model is fully enclosed in its own case and can easily be moved to service several recorders in different locations.

METHOD OF OPERATION

Optimum tape erasure is achieved by exposing a tape to a strong magnetic field and then gradually withdrawing it from the field. With the SE-10, this process is completely automatic: you simply place a reel of tape on the spindle and close the door. You don't have to rotate the reel, turn it over or withdraw it from the field by hand.

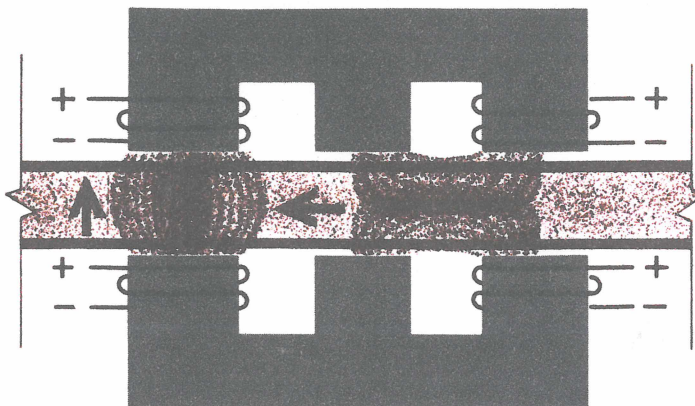
When the door closes, it swings the reel assembly back into the machine and depresses the push-button start switch. The motor-driven spindle rotates

the reel slowly about twenty times. Simultaneously, dual magnets, one pair above and one pair below the reel, swing into the center of the reel and begin moving slowly back towards the edge. The magnets are mounted on a pivot assembly at one corner (see illustration with cover removed).

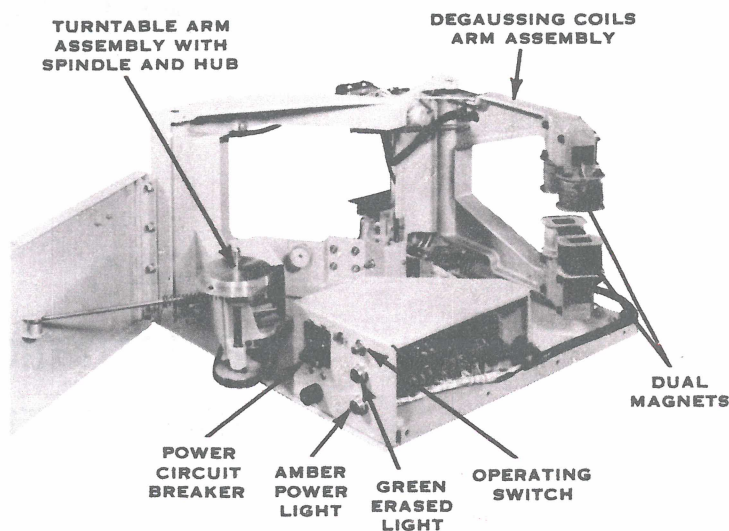
Thus the whole tape is swept by the magnetic field. At the same time, a gradual withdrawal is automatically achieved, as at first the entire field and then the fringe of the field passes over the tape. Configuration of the magnet windings is such that both horizontal and vertical fields sweep the tape, accomplishing perfect erasure regardless of domain orientation.

At the end of the cycle, a green ERASED lamp glows and the magnets come to rest at the extreme outer edge ready for the next cycle. If the door is opened during the cycle or the power otherwise interrupted, a spring returns the magnets to the center and a complete cycle begins again when power is restored.

A blower cools the unit and remains on as long as the power is applied whether in the erase cycle or not. The unit can be operated at ambient temperatures as high as 110° Fahrenheit. The SE-10 will erase twenty-five reels per hour in the 60-cycle version and seventeen in the 50-cycle version.



Magnets facing each other on opposite sides of the tape give equally good field penetration on all tape widths. Configuration of the magnet windings is such that both horizontal and vertical fields sweep the tape, accomplishing perfect erasure regardless of domain orientation.



SE-10 Tape Degausser with cover removed

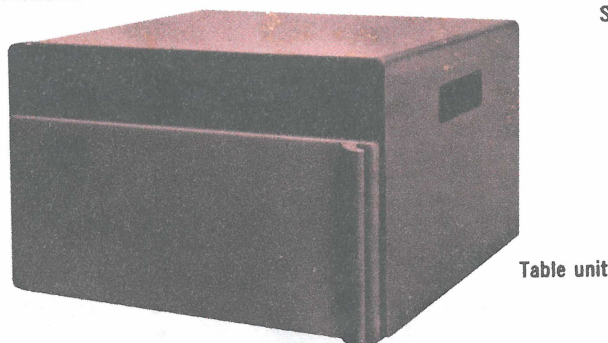


Table unit

SE-10 SPECIFICATIONS

Reel sizes handled

7-inch plastic and 10½-inch or 14-inch NAB reels with ¼- to 1-inch tape. IBM reels with adaptor.

Degree of erasure

Better than 80-db below a saturated 5-KC signal recorded on the center track of a 1-inch tape. Measured as follows: 5-KC signal recorded on tape and erased with the SE-10. Amplitude then measured on playback after passing through a band-pass filter with a center frequency of 5-KC, a band-pass of 1 octave or less at -3db from the center frequency amplitude, and a rolloff of 18-db/octave or more beyond band-pass limits.

Operating cycle

1½ minutes or less at 60 cps.

Indicators

AMBER light indicates power on; GREEN indicates completion of an uninterrupted erase cycle.

Capacity

25 reels per hour at 60 cps; 17 reels at 50 cps.

Operating conditions

Ambient temperatures from 40° to 110° Fahrenheit. Relative humidity up to 100% (below dew point).

Size

Table model 17½ inches wide by 18 inches deep by 11 inches high. Rack model 19 inches wide by 18 inches deep by 10½ inches high.

Weight

Table model 50 pounds. Rack model 55 pounds.

Power requirements

110-125 volts RMS, single phase, 50 or 60 cps. Current requirements at 117 volts RMS; 11 amp at 60 cps, 13.5 amp at 50 cps.

AMPEX

Ampex Corporation
Data Products Division
401 Broadway
Redwood City, California 94063

(415) 367-2011
or phone toll free (800) 227-1981