

## Model 632 Instrumentation, Audio & Video Tape Conditioner



## **FEATURES**

- Conditions Instrumentation, Audio & Video Magnetic Tape on NAB & IBM reels
- Large, automatically engaging packwheel for the best precision stack possible
- Sapphire cleaning blade rotates out of tape path for "tissue only" cleaning
- Four automatically advancing tissue cleaning stations for cleaning both sides of the tape
- Tape Low Sensing for bi-directional cleaning in full cycle operation
- Tape deck pivots on the vertical axis for 100% front accessibility
- Optional optical scanner for detecting physical defects

The BOW Model 632 provides an instrumentation, audio and video tape cleaner with precision wind for 1-inch and 2-inch NAB and 1/2-inch NAB or IBM reels. The BOW Model 632 was designed to handle reel sizes from 10.5-inches to 16-inches in diameter. With the industries' latest electronics and tape path available, the Model 632 is the solution to your tape conditioning needs.

With the optional optical inspector the user can establish a fail criteria to weed out bad tapes and save valuable reusable tapes. Perfect for conditioning old tapes for archives, restoration, or to ready the tape for media transfer. The optical inspector information can also be sent to a printer, located in the base of the unit, giving the user a hard copy of the results.

The BOW Model 632 guides that tape gently through the tape path and cleaning stations at a programmed tension that allows for the best packing of the tape. Constant tension can also be selected as desired. The four constantly advancing tissue cleaning stations clean both sides of the tape both before and after the sapphire cleaning blade, which can be removed from the tape path as required. Alternate speeds are also available for handling tapes with extreme stiction issues.

The 632 is available in both our standard cabinet (as shown) or ready for rack mounting to a 19 inch EIA rack.

For the best magnetic tape winder/packer/cleaner for your valuable tapes, the BOW Model 632 is the most reliable, gentle handling, and best value in the industry.

SPECIFICATION	
Tape Capacity	1/2, 1 and 2 inch magnetic tape. 10.5, 14, 15, and 16 inch diameter reels.
Winding Tension	Programmed in accordance with recommendations in Federal Specification WT-0045 and National Security Agency specification L14-2X, or constant tension (adjustable).
Cleaning	Removable sapphire blade with four automatically advancing tissue cleaning stations for "blade and tissue" or "tissue only" cleaning in both forward and reverse.
Stack Quality	Precision - meets requirements of NSA L14-2. Accomplished by a large diameter packwheel with 180° of wrap.
Packwheel	Automatically engages as tape moves in the forward (precision stack) direction.
Speeds	150 ips (inches per second) in forward, 300 ips in reverse. See SSM option below for alternative speeds.
Footage Counter	4.5 digit LED. 1 foot resolution, .5% accuracy.
Controls	FORWARD, LOAD, CYCLE, REVERSE, STOP, TAPE SIZE SELECT and STOP DISTANCE (option).
Cycle	One round trip from bottom reel to top and back.
Tape Low Sensing	The amount of tape left on the reel is adjustable.
<b>Tape Absence Sensing</b>	Disengages packwheel and stops machine.
Blade Life Indicator	Three indicators that show "100-33%" remaining "32-0%", or REPLACE".
Brakes	Dynamic fail safe, automatically actuated at power interruption, inadvertent shut down during operation or when the physical end of the tape is sensed.
Hubs	Precision locating and positive locking NAB hubs. IBM available for ½-inch units (CKC option).
Accessibility	All maintenance accomplished from the front of the unit, with the exception of a fuse in the power module, located on the rear of the unit.
Dimensions	50" H, 23" W, 16" D (77" H with base).
Weight	½ & 1-inch: Approx: 170 lbs.; Shipping weight: Approx. 250 lbs. 2-inch: approx. 210 lbs.; Shipping weight: Approx. 300 lbs.
Power	100-240 VAC, ± 10%, 50/60 Hz, 6.25 amps (max.)

## ORDERING INFORMATION

- 632 Cleaner/Winder for 1- inch x 10.5 through 16-inch NAB reels.
- 632A Cleaner/Winder for ½-inch x 10.5 through 16-inch NAB reels. See CKC option for IBM reels.
- **632-2** Cleaner/Winder for 2-inch x 10.5 through 14-inch NAB reels.

Add "R" to end of Model Number for rack mounting. Does not include rack or cabinet, but includes rackmount kit.

## **OPTIONAL FEATURES**

- Stop Distance Select Stops tape at a selected distance. Typically used to run enough tape from a larger reel, for example a 14-inch, to fit on a 10.5-inch reel. Also, tape can be stopped at a known defective section for splicing.
- Optical Inspector with Defect Counter In-line quality control device that opto-electronically scans entire surface of the tape, detecting physical abnormities (pin holes, damaged or folded edges, stretched tape, nicks, oxide voids, etc.). Allows user to grade tape based on physical defects found and also dropout information from the recorder..
- **800/P** Optical Inspector with Defect Counter with Printer 800 Option with Printer for printout of physical defect locations.
- Conversion Kit from NAB to IBM Allows operator to change cleaner from 1/2-inch NAB reels to IBM reels.
- CKA Conversion Kit from 1-inch to ½-inch NAB. Allows operator to change cleaner from 1-inch to 1/2-inch tape.
- **TLM** Time Lapse Meters Indicates total hours under power and total hours running tape.
- Deteriorating Tape Tissue Component Modification (632-2 only) Tissue components to accommodate deteriorating tape (sticking/excessive shedding). Increase tissue speed from 2 RPH to 4 RPH.
- Selectable Speed Modification For customers with old tape of unknown quality. Slows tape speed down to two selectable speeds. Standard speeds are lowered from 150 ips in forward (300 ips in reverse) to 60 ips (120 ips in reverse) and 120 ips in forward (240 ips in reverse).
- **BSW** B-Format Switch Allows operator to switch between A-Format and B-Format tape.

Manufactured and Sold by

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