



TAPE PRO

Audio Tape Cartridges

Dynamax Cobalt

Audiomax

Master Cart

Fidelity 300 & 350

Background Music

Professional

Alien

Masternet

Cartridges

Studio

Tapes

Series

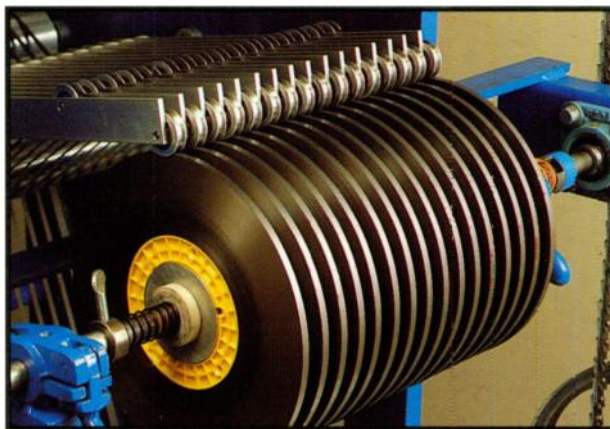
ms

Fidelipac: Continuing A Broadcast Tradition

The current NAB Standard Broadcast Audio Tape Cartridge originated from a patent granted to Fidelipac Corporation in 1956. Since that time Fidelipac has been a major supplier of cartridges and equipment to the Broadcast Industry throughout the world.

Over the years, many new products have been introduced by Fidelipac, each representing an innovation for the industry. In 1971 it was the Model 350 Broadcast Audio Tape Cartridge, the first true stereo cartridge with adjustable tape guidance. In 1975 the Master Cart was introduced, the first cartridge to transfer the function of precision tape guidance to the Recorder/ Reproducer. In 1987 DYNAMAX Cobalt Tape Cartridges revolutionized broadcast tape technology with a new formulation for critical stereo recording rivaling the quality of digital audio. And in 1990, cartridge technology was reinforced by the introduction of AUDIOMAX, a premium quality cartridge for general stereo use.

In the early 1980s, several major tape suppliers curtailed manufacture of the 1/4 inch back-lubricated tape used in broadcasting cartridges, in favor of the larger video and digital markets. In 1982 Fidelipac designed, constructed, and staffed a complete tape manufacturing facility, with modern coating and slitting operations, the world's first dedicated exclusively to the needs of the broadcast industry.



Modern tape slitting operations ensure high quality product

In 1984 Fidelipac entered the Cartridge Machine market with introduction of the DYNAMAX CTR100 Series of Broadcast Audio Cartridge Recorders and Reproducers. These units revolutionized the industry with innovations such as CARTSCAN and a patented Splice Find feature. DYNAMAX soon became the market leader. In 1986, the CTR10 Series was introduced for less demanding applications, followed by the CTR30 Series of 3-Deck Recorder/Reproducers and the ESD10 Eraser/Splice Finder. All remain the standards against which competitive units are gauged.



Fidelipac operates a fully integrated tape manufacturing plant

Today Fidelipac remains committed to the needs of the International Broadcast Industry. The company maintains a major manufacturing facility in Moorestown, New Jersey, and supports the efforts of over 160 Dealers throughout the world.

Broadcast Audio Endless Loop Tape Cartridges



DYNAMAX COBALT: MAXIMUM AUDIO PERFORMANCE

The Broadcast Industry's first Cobalt Tape Cartridge, DYNAMAX COBALT is loaded with type DYN-1000X tape featuring extended high frequency response, high sensitivity, and increased headroom. The cartridge shell incorporates positive lock braking and Fidelipac's neutral tape handling system based on a proprietary front corner post design, wide pressure pads, and an impregnated nylon composite bearing support for the reel assembly. All combine to offer very low flutter and distortion performance. DYNAMAX COBALT is suggested for use at elevated recording levels, and is the ideal cartridge for high quality reproduction from a digital audio source.



AUDIOMAX 4000: PREMIUM QUALITY & COMPATIBILITY

AUDIOMAX 4000 was developed specifically for high audio quality, and features true bias and phase compatibility with type AA-4 cartridges. Loaded with type DYN-600X tape, it provides excellent high frequency response and headroom, with minimum abrasiveness and oxide shedding characteristics. The shell incorporates a neutral tape handling design with a debris trapping wiper pad, and is molded from the latest in rugged high grade engineering plastics. Each cartridge is supplied with a storage sleeve. AUDIOMAX 4000 is suggested for stereo use requiring elevated recording levels.



MASTER CART: UNCOMPROMISING STEREO PERFORMANCE

MASTER CART provides maximum stereo phase tracking and performance at standard operating levels. Utilizing the same proprietary cartridge shell design as DYNAMAX COBALT, but loaded with type DYN-400X tape, MASTER CART features positive lock braking, a neutral tape handling system, wide pressure pads, and an impregnated nylon composite bearing support for the reel assembly. MASTER CART is the ideal cartridge for general purpose stereo recording, and may be freely intermixed with DYNAMAX COBALT cartridges recorded at elevated levels when using a DYNAMAX Recorder or Reproducer equipped with the CARTSCAN system.

Broadcast Audio Endless Loop Tape Cartridges

AUDIOMAX 3000:

QUALITY STEREO PERFORMANCE:

Sharing the AUDIOMAX 4000 neutral shell design, and including a debris trapping wiper pad, AUDIOMAX 3000 provides quality stereo performance. Loaded with type DYN-200X tape, it features true bias and phase compatibility with type AA-3 cartridges, and is suggested for stereo use at standard recording levels. Also available as a premium quality empty, AUDIOMAX 3000-E may be field loaded with any type DYNAMAX Tape to achieve custom specifications.



300/350 SERIES:

A STANDARD FOR OVER 25 YEARS

The cartridge that broadcast engineers have known and relied on for years, 300 Series Cartridges have been the workhorse of the industry since 1962. Features include a lubricated brass center bearing, anti-friction and debris trapping pelon coated pressure pads, and a positive lock braking system to eliminate tape pack irregularities from rough handling or inertial forces. Model 300 is designed for monophonic use, while Model 350 incorporates an adjustable height corner post for stereo tracking control when used in vintage model Recorders and Reproducers. Suggested for use at standard recording levels, Model 300 and 350 are loaded with DYN-400X tape.



DYNAMAX™ and AUDIOMAX™ are registered trademarks of Fidelipac Corp.

Background Music Endless Loop Tape Cartridges



MODEL 600:

NAB Type B Extended Play Cartridge, for background music and industrial use. A larger version of the basic shell design of the Model 300, it may be loaded with up to 750 feet of tape for 20 minutes play time @ 7-1/2 ips.



MODEL 1200:

NAB Type C Extended Play Cartridge, for background music and industrial use. A larger version of the basic shell design of the Model 300, it may be loaded with up to 1500 feet of tape for 40 minutes play time @ 7-1/2 ips.

Professional Back-Lubricated Recording Tape

Bulk 1/4" Back-Lubricated Recording Tape is available on either NAB hubs or 7" reels for custom loading, or for reloading damaged or worn NAB Endless Loop Broadcast Cartridges. All tape products feature superior surface wear characteristics, non-shed cross-linked resin chemistry, and low coefficients of abrasion.



DYN-1000X: Cobalt impregnated oxides provide maximum frequency response, signal-to-noise performance, and operational headroom. Preferred for high quality elevated level mastering from a digital source.

DYN-600X: Premium quality mastering tape for use at elevated recording levels.

DYN-400X: High quality low noise mastering tape for use at standard recording levels.

DYN-375X: Thin base mastering tape for extended play lengths and background music applications.

DYN-200X: Premium quality mastering tape for use at standard recording levels.

Cartridge Loading Equipment, Splicing Blocks, Splicing Tape, and other Supplies, as well as a Reloading Manual, are available. Please contact factory for details.

Professional Alignment Cartridges & Accessories



450: Mono Alignment Cartridge

451: Stereo Alignment Cartridge

452: Wow and Flutter Test Cartridge (3150 Hz)

455: Sweep Frequency Response Test & Alignment Cartridge, Full Track

456: Sweep Frequency Response Test & Alignment Cartridge, Stereo

326: Head Height Gauge

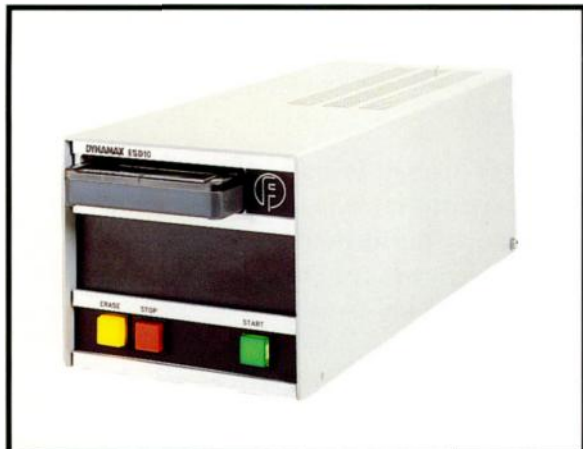
328: Head Insertion Gauge

HG-1: Head Height & Zenith Gauge
(for use with DYNAMAX machines only)

387: Right Angle Zenith Gauge

Cue Tone Reference and Threshold Alignment Cartridges are also available. Please contact factory for details.

Cartridge Eraser/ Splice Detector



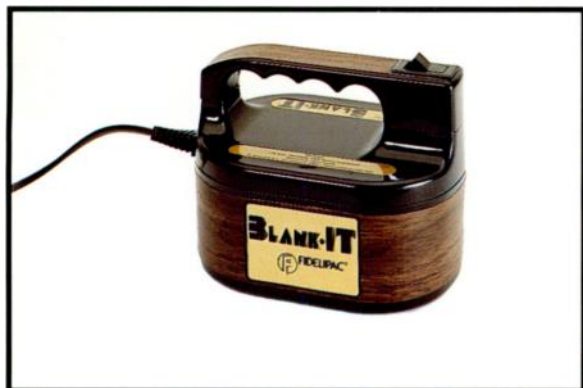
SPECIFICATIONS: Tape Speed: 27.5 ips nom.
Depth of Erasure: >85 dB @ 1 kHz
Cartridge Size: NAB A or AA
Power Req: 115/220 VAC 50/60 Hz 50 Watts
* U.S. Patent No. 4,583,669

Height: 5.625 inches / 143 mm
Length: 16 inches / 406 mm
Width: 6 inches / 152 mm
Weight: 26 lbs / 11.8 kg
19" Rack Mounting Accessories available

DYNAMAX™ ESD10 ERASER/SPLICE DETECTOR:
A complete Cartridge Preparation System, the ESD10 rapidly and reliably erases a cartridge, locates the splice, and parks the tape such that the splice is properly located and ready for recording.

Operating at high speed, and using dual full-track erase heads with a 200 kHz erase frequency, the design eliminates the noisy and heat producing degaussing coils typically found in bulk erasers. Utilizing Fidelipac's patented* splice location system, no sensitivity adjustments are ever required. Most parts are compatible with other DYNAMAX Recorder/Reproducer products.

Magnetic Bulk Tape Erasers



SPECIFICATIONS: Nominal Duty Cycle:
5 minutes ON
15 minutes OFF
Thermocouple Protected from overload
115 VAC 50/60 Hz 880 Watts

Height: 4-1/2 inches / 114 mm
Length: 5-1/2 inches / 140 mm
Width: 4 inches / 102 mm
Weight: 5 lbs / 2.27 kg
Cord Length: 90 inches / 229 cm

BLANK-IT™:

Molded of unbreakable plastic, rugged, lightweight, and properly balanced to minimize fatigue during prolonged use. Blank-It's high mu magnetic core supplies 1550 Gauss of erasure power at 1/4 inch from its base center, and will perform at a longer duty cycle than similar units. Ideal for the proper erasure of virtually any audio magnetic recording media.

A replaceable felt base pad protects the contacted media from scratching.



SPECIFICATIONS: Nominal Duty Cycle:
5 minutes ON
15 minutes OFF
Thermocouple Protected from overload
115/220 VAC 50/60 Hz 920 Watts

Height: 2.875 inches / 73 mm
Length: 7.75 inches / 197 mm
Width: 6.25 inches / 159 mm
Weight: 10.1 lbs / 4.5 kg
Cord Length: 78 inches / 198 cm

MODEL 400:

Our most powerful bulk eraser, providing over 2000 Gauss of erasure power. Featuring a hardwood case, scuff resistant laminate top, die cast zinc edge guide, removable aluminum pivot pin, and non-skid rubber feet, it will efficiently erase magnetic media on reel sizes up to 11" in diameter.

Available for 115 or 220 VAC operation.

Cartridge Storage Systems

Fidelipac Cartridge Storage Systems provide a versatile, rapid, and efficient method of categorizing and transferring cartridges from storage to active use. Each is constructed of sturdy and lightweight chrome plated welded steel wire cages, and incorporates easily removable vertical rack sections which can be exchanged for different programming access.



WR-25: WALL RACK

Individual vertical module sections holding up to 25 NAB Type A or AA Carts each.

The WR-25 is the basic building block used with the MRB-1 Mobile Rack Base to construct the MR-200 Mobile Cartridge Rack, as shown below.

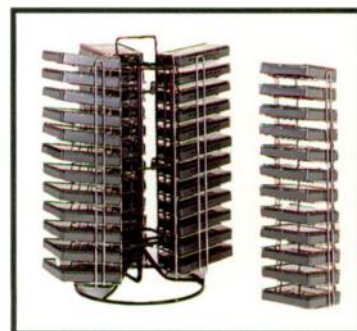


MR-200: MOBILE CARTRIDGE RACK

Convenient roll-around cartridge rack with heavy duty casters, holding up to 200 NAB Type A or AA Carts. The use of WR-25 Wall Rack Modules permits quick and easy transfer of individual modules from wall storage to active carousel.

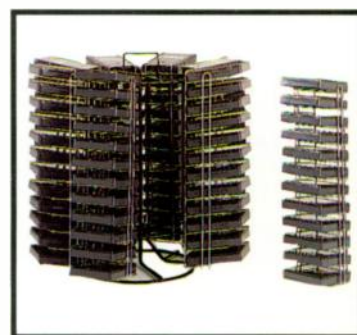
TR-48: TABLETOP CARTRIDGE RACK

Holds 48 Cartridges. Each vertical module holds up to 12 Carts, and is easily removable. A carrying handle is built-in.



TR-96: TABLETOP CARTRIDGE RACK

Holds 96 Cartridges. Each vertical module holds up to 12 Carts, and is easily removable. A carrying handle is built-in.



MODEL	HEIGHT	WIDTH	DEPTH (Loaded)	DIAMETER (Loaded)	WEIGHT
WR-25	37 in/940 mm	4.5 in/114 mm	5.5 in/140 mm	N/A	4.2 lb/1.9 kg
MRB-1	N/A	N/A	N/A	N/A	16 lb/7.3 kg
MR-200	48 in/1219 mm	N/A	N/A	19 in/483 mm	47 lb/21 kg
TR-48	20 in/508 mm	N/A	N/A	15 in/381 mm	11 lb/5.0 kg
TR-96	20 in/508 mm	N/A	N/A	20 in/508 mm	23 lb/10.5 kg

World Standard Warning Lights



The standard Warning Light used all over the world. Back illuminated Brilliant Red letters on an opaque black background for maximum attention and visibility. All legends are rear screened on thick and unbreakable plexiglass. Lamp replacement is easily accomplished from the front. Available in French, German, Greek, Japanese, Polish, Russian, Spanish, and Swedish languages, plus custom versions on request. Supplied with two 7C7 6S6 lamps and mounting hardware.

SPECIFICATIONS: Width: 10 inches/254 mm
Height: 5 inches/127 mm
Depth: 2-1/2 inches/63 mm
Weight: 2-1/2 lbs/1.1 kg

Cartridge and Tape Specifications

CARTRIDGE	NAB TYPE	MAXIMUM SAFE LOAD at 7.5 ips	BASE COLOR	STEREO PHASE REPEATABILITY	TAPE TYPE LOADED	DIMENSIONS	SUGGESTED APPLICATION	SUGGESTED RECORDING LEVEL
DYNAMAX COBALT	AA	10.5 min.	CHARCOAL	+/- 50 degs. at 12.5 kHz	DYN-1000X	4.000 x 5.175 x 0.875 in. 101 x 133 x 22 mm	HIGH QUALITY STEREO	ELEVATED 250 nWb/m
AUDIOMAX 4000	AA	10.5 min.	BLUE	+/- 50 degs. at 12.5 kHz	DYN-600X	4.000 x 5.175 x 0.875 in. 101 x 133 x 22 mm	HIGH QUALITY STEREO	ELEVATED 250 nWb/m
MASTER CART	AA	10.5 min.	SUISSE RED	+/- 50 degs. at 12.5 kHz	DYN-400X	4.000 x 5.175 x 0.875 in. 101 x 133 x 22 mm	STEREO	STANDARD 160 nWb/m
AUDIOMAX 3000	AA	10.5 min.	PURPLE	+/- 50 degs. at 12.5 kHz	DYN-200X	4.000 x 5.175 x 0.875 in. 101 x 133 x 22 mm	STEREO	STANDARD 160 nWb/m
MODEL 350	A	10.5 min.	GREY	+/- 50 degs. at 10.0 kHz	DYN-400X	4.000 x 5.175 x 0.875 in. 101 x 133 x 22 mm	STEREO	STANDARD 160 nWb/m
MODEL 300	A	10.5 min.	GREY	N/A	DYN-400X	4.000 x 5.175 x 0.875 in. 101 x 133 x 22 mm	MONO	STANDARD 160 nWb/m
MODEL 600	B	20.0 min.	GREY	N/A	DYN-375X	6.000 x 7.000 x 0.875 in. 152 x 178 x 22 mm	BACKGROUND MUSIC	STANDARD 160 nWb/m
MODEL 1200	C	40.0 min.	GREY	N/A	DYN-375X	7.625 x 8.500 x 0.875 in. 194 x 216 x 22 mm	BACKGROUND MUSIC	STANDARD 160 nWb/m

All Fidelipac Cartridges are tested 100% prior to shipment.

1 kHz, 10 kHz, and 3.15 kHz test tones are left on each cartridge after factory quality testing.

It is recommended that each cartridge be bulk erased prior to use.

TAPE TYPE	PHYSICAL PROPERTIES					ELECTROMAGNETIC PROPERTIES						
	BASE MATERIAL	NOMINAL THICKNESS				COERCIVITY	RETENTIVITY	SQUARENESS	RECOMMENDED OVERBIAS at 10 kHz	SENSITIVITY at 1 kHz	MAXIMUM OUTPUT LEVEL at 3% THD	
		BASE	OXIDE COAT	BACK COAT	TOTAL						1 kHz	10 kHz
DYN-375X	Polyester	0.75 mils	0.15 mils	0.04 mils	0.94 mils	260 Oe	650 G	80%	+2.0 dB	-2.0 dB	+0.0 dB	+3.5 dB
DYN-200X	Polyester	0.88 mils	0.33 mils	0.05 mils	1.26 mils	320 Oe	1300 G	85%	+2.0 dB	+0.5 dB	+3.5 dB	+3.0 dB
DYN-400X	Polyester	0.88 mils	0.25 mils	0.04 mils	1.17 mils	260 Oe	1000 G	80%	+2.0 dB	+0.0 dB	+3.0 dB	+3.0 dB
DYN-600X	Polyester	0.88 mils	0.35 mils	0.04 mils	1.27 mils	360 Oe	1400 G	89%	+3.0 dB	+1.0 dB	+8.0 dB	+3.5 dB
DYN-1000X	Polyester	0.88 mils	0.39 mils	0.04 mils	1.31 mils	390 Oe	1400 G	89%	+3.0 dB	+1.5 dB	+8.0 dB	+4.0 dB

All Fidelipac Tape is slit to a Nominal Width of 246 mils, +/- 0.0005 in.

TEST CONDITIONS:

Tape Speed:	7.5 ips	Reproduce Equalization:	50 usec.
Reference Fluxivity:	250 nWb/m	Track Width:	80 mils
Reference Frequency:	1 kHz	Record Head Gap Length:	0.5 mils

Specifications are subject to change without notification by Fidelipac Corporation.

DYNAMAX products are designed and manufactured in the USA.



Fidelipac Corporation □ P.O. Box 808 □ Moorestown, NJ 08057 USA □ Tel: 609-235-3900 □ Fax: 609-235-7779 □ Tlx: 710-897-0254

