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Cobalt Tape Broadcast Cartridge

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# DYNAMAX<sup>®</sup>



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Broadcast Products by Fidelipac

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# DYNAMAX COBALT™ Broadcast Cartridge

Introducing Dynamax Cobalt. A new generation of tape cartridge. Loaded with broadcasting's first cobalt tape.

The Dynamax Cobalt cartridge shell is constructed of high-grade engineering plastic for more strength,

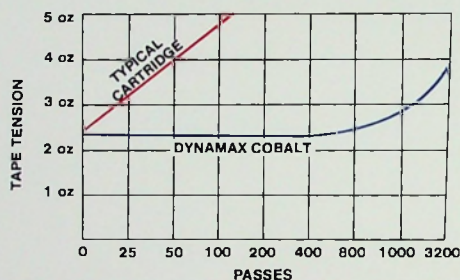
greater heat stability and better dimensional accuracy.

Inside, our new Dynamax Cobalt tape provides the extra headroom necessary when carting CD's. And your spots, jingles and in-house production take on added punch.

## Dynamax Cobalt outperforms all other broadcast tape cartridges in the following critical areas:

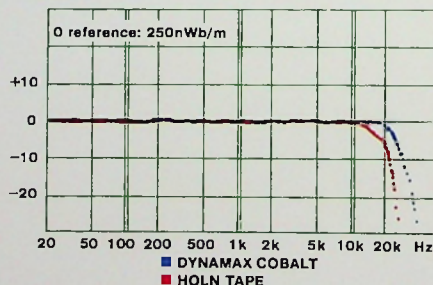
### Longer service life without user adjustments

New cartridge design, cartridge materials and cross linked urethane tape binders combine to give you the world's longest lasting NAB "AA" tape cartridge. Tape tension build-up is kept to a minimum, thus prolonging service life.



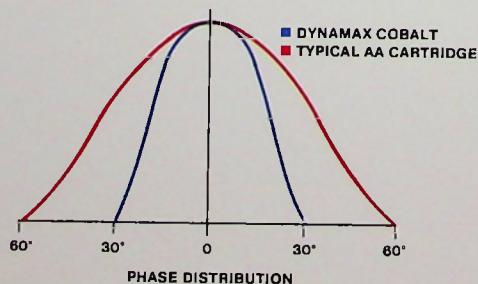
### Extended high frequency response

The increased coercivity of Cobalt gives you greatly extended high frequency sensitivity, with no bias change required over conventional high output tapes, and no need for complex electronic processing systems. You'll notice new sparkle even on older machines.



### Superior phase uniformity

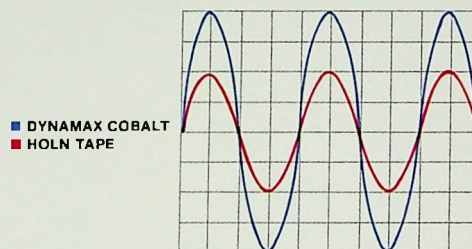
Fidelipac, the inventor of the stereo cartridge, refines technology. Dynamax Cobalt cartridges agree in phase within tighter limits than any other "AA" cartridge, and stay that way over a long service life.



### Greater high frequency headroom

Our proprietary blend of cobalt-encapsulated ferric particles provides more than 2dB of additional headroom where you need it—at upper midrange and high frequencies. So CD's sound like CD's, and your spots and jingles will sizzle.

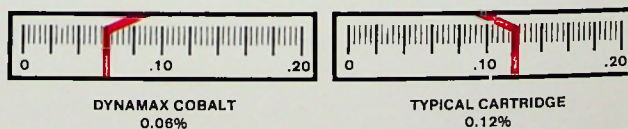
#### MAXIMUM UNDISTORTED OUTPUT LEVEL AT 10 KHZ



### Lower flutter and distortion components

A new modified acrylic resin cartridge housing and debris-trapping pressure pads vastly reduce scrape flutter and phase jitter. These new materials provide cleaner running tape, longer tape life, greater strength, superior heat stability and more precise overall dimensional accuracy.

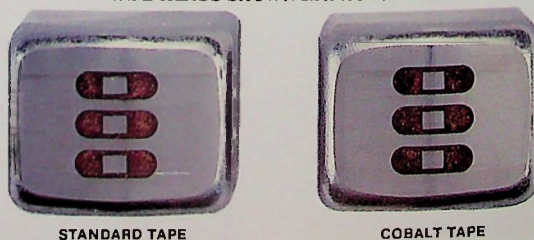
#### DIN PEAK WEIGHTED FLUTTER



### Reduced head and capstan wear

Fidelipac pays special attention to the problem of tape abrasion, so you don't have to. Dynamax Cobalt contains a combination of lubricants which actually reduce head and capstan wear in comparison to ordinary tape.

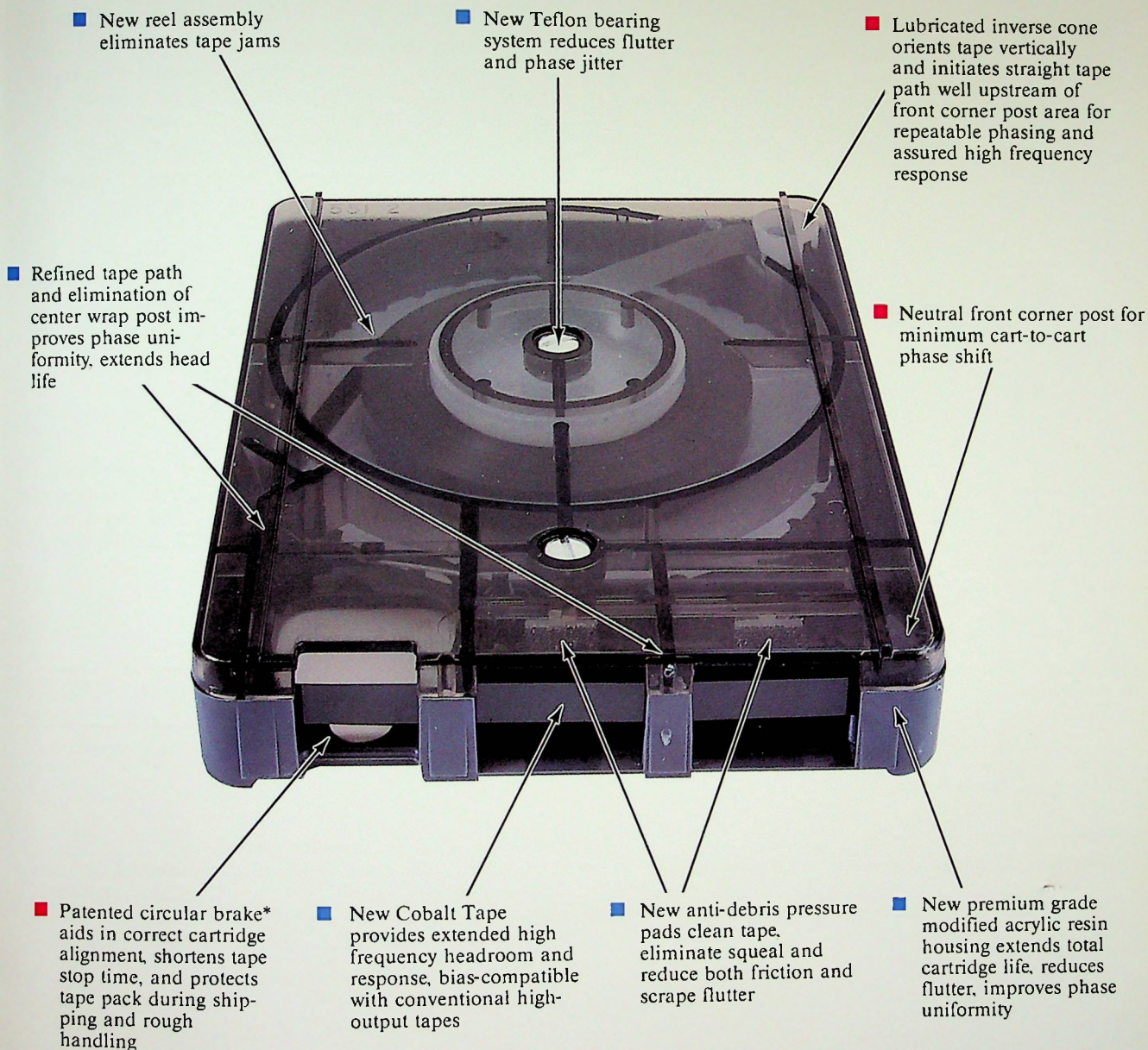
#### AFTER 2000 HOURS OF OPERATION TAPE HEADS SHOWN 2.5X ACTUAL SIZE



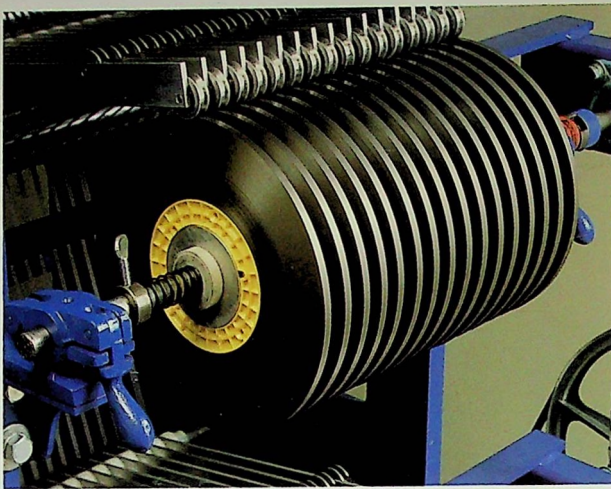


## Fine tuning the broadcast cartridge with 30 years of proven experience

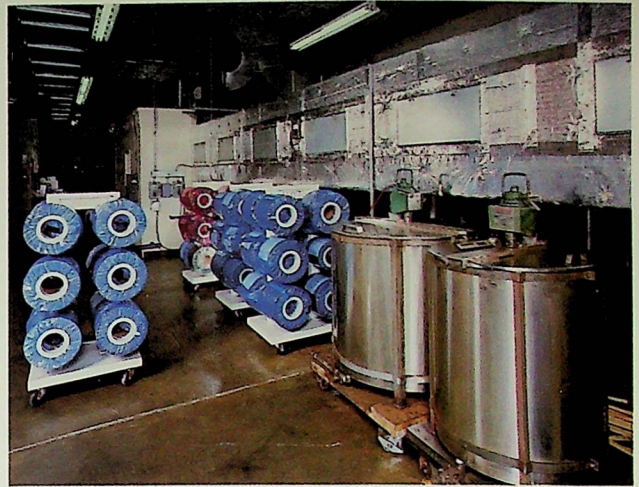
- New feature with Dynamax Cobalt
- Proven Fidelipac technology







Slitter in operation. Precise tolerances are monitored and maintained throughout the tape manufacturing process.



Fidelipac operates a fully integrated tape manufacturing plant at its Moorestown, NJ facility.

## DYNAMAX COBALT TAPE CARTRIDGE SPECIFICATIONS

TYPE OF TAPE: DYNAMAX DYN-1000FX COBALT

PHYSICAL PROPERTIES:	UNITS	DATA	ELECTROMAGNETIC PROPERTIES:	UNITS	DATA
Cartridge			Recommended 10 kHz Overbias Setting	dB	3.0
NAB Type		AA	Sensitivity (reference DYN-500FX)		
Maximum tape load @ 7.5 ips	minutes	10.5	1 kHz	dB	+0.5
	feet	394.0	10 kHz	dB	+2.0
Base Material		Modified acrylic resin	Maximum Output Level at 3% Third Harmonic Distortion		
Base Color		Charcoal	1 kHz	dB	+8.0
Top Color		Smoke Grey	10 kHz	dB	+4.0
Dimensions	mm	101 x 133 x 22	MAGNETIC PROPERTIES:		
	inches	4 x 5.175 x 0.875	Coercivity (Hc)	Oe	390
Stereo Phase Repeatability at 12.5 kHz	degrees	±50	Retentivity (Br)	G	1400
Tape			Squareness	%	89
Base Material	mils	0.88			
Backcoat	mils	0.04			
Oxide	mils	0.39			
Overall Nominal Thickness	mils	1.31			
Nominal Width	mils	246			
LEVEL UNIFORMITY AT 1 KHZ:					
Within a cartridge	dB	±0.25			
Cartridge to cartridge	dB	±1.0			

Dynamax Cobalt is phase and bias compatible with Master Cart II. Machines optimized for high-output low-noise tapes usually will not require any further bias adjustment. If Dynamax Cobalt produces an overly bright high end, a reduction of high frequency record equalization will restore flat response and further improve the signal-to-noise ratio.

## SHIPPING INFORMATION

Cartridges are packed 10 per box, ten boxes per 100-piece shipping carton

SHIPPING WEIGHT	SHIPPING DIMENSIONS	SHIPPING VOLUME
100 40-second 10.75 kg (23.7 lb.)	100 cart container:	100 cart container
100 5.5-minute 12.6 kg (27.8 lb.)	591 x 238 x 292 mm	0.04 m <sup>3</sup> (1.45 ft <sup>3</sup> )
	(23.25 x 9.375 x 11.5 in.)	

Dynamax Cobalt cartridges are available in loaded lengths from 10 seconds to 10.5 minutes.

DISTRIBUTED BY:



**DYNAMAX®**  
BROADCAST PRODUCTS BY FIDELIPAC®

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