

Mark XII Disc Pack

Description

The Memorex Mark XII is a high-performance, 200 megabyte capacity disc pack designed in two configurations:

The Mark XIIC is compatible with the CDC 844, CDC 9780 and NCR 658-201 disc drives and is interchangeable with the CDC 883-61 and NCR 958-201 disc packs, or equivalent drives and packs.

The Mark XIIH is designed for use on the Honeywell MSU 451 disc drive and is interchangeable with the Honeywell M4451 pack, or equivalent drives and packs.

Both the Mark XIIC and XIIH feature ten recording discs and have 19 data surfaces plus one for the pre-recorded servo tracks. These electronic track controllers (servo tracks) are utilized by the drives to properly position their ultra-sensitive read/write heads.

Both the Mark XIIC and XIIH are backed by full factory and field engineering support. And they are available through a wide variety of financial programs.

The Mark XII—Superior Manufacturing, Superior Performance

With Mark XII, your system will provide long-lasting, precise data throughput. Each Mark XII is the product of years of manufacturing excellence in both disc drives and high-performance packs. To insure absolute pack data integrity, Memorex servo writes each Mark XII on specially designed equipment to assure maximum accuracy on the CDC, NCR and Honeywell drives. Additionally, half-altitude testing with special heads and a 200% read/write analysis are performed on the recording surface of each Mark XII disc. After they are assembled, each pack is also tested at critical systems levels to assure optimum performance in any computer room environment.

Making reliability a vital ingredient of each pack, Mark XII exceeds industry standards in both manufacturing and testing. For example, Mark XII's disc substrates are finished to micro-inch standards. And each disc coating is "armored" through a proprietary process for extra tough performance characteristics. Mark XII is continuously monitored, through-

out manufacturing, with over 100 quality audits and tests. Pack components are also of maximum quality: Temper-hardened steel top cover inserts, stainless steel locking assemblies, forged aluminum hubs, chip-resistant nylon face gear and durable Lexan* coverset. They are all standard on Mark XII; and they all add up to performance of the highest standards.

Mark XII. You can depend on it whether you use a CDC, NCR or Honeywell drive.

*A registered trademark of General Electric Company

MEMOREX

Mark XII Disc Pack



THE COMPUTER HISTORY MUSEUM



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Mark XII Disc Pack Technical Data

Compatibility

Mark XII is designed in two versions for use on selected drives.

Mark XIIC is designed for use on CDC 9780 and NCR 658-201 disc drives; and interchangeable with CDC 883-61 and NCR 958-201 disc packs, or equivalent drives and packs.

Mark XIIH is interchangeable with the Honeywell M4451 packs and compatible with Honeywell MSU 451 disc drives, or equivalent packs and drives.

Physical Dimensions

(including coverset)

Height	7.06 inches
Diameter	14.9 inches
Weight	21.0 pounds
Shipping weight	26.5 pounds

Disc Information

Total discs per pack	12 each
Bottom protective disc	1 each
Top protective disc	1 each
Recording discs	10 each
Disc thickness	0.075 inches
Nominal coating thickness	50 μ inches
Surface smoothness	Less than 1.0 μ inches arithmetic average

Recording Surfaces

Data surfaces per pack	19 each
Servo surfaces per pack	1 each

Maximum Data Storage

Per pack	Approx. 200,000,000 Bytes*
Per cylinder	Approx. 243,000 Bytes*

(*Varies according to drive used)

Servo Tracks Initialization

Pre-Recorded
Mark XII packs
require initialization
on user's system
drives before use.

Alternate Tracks	15 per surface 285 per pack
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Data Tracks	808 per surface 15,352 per pack
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Environmental Conditions

Temperature range	60-120°F
Relative humidity	8-80%
Maximum web bulb	78°F

Before the Mark XII is placed into operation, it shall be conditioned in the computer room environment for a minimum of two hours.

Memorex Corporation

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