

Mark VI Disc Pack

Description

The Mark VI is a highly reliable disc pack that has been field proven through years of operation in computer installations all over the world. This extensive reliability results from the unique media and drive expertise which has been combined at Memorex to achieve absolute quality control by manufacturing the entire disc pack—from superior substrates and coating to the 100% overlapped testing of every disc in the pack.

The Mark VI is compatible with the Memorex 3660, and IBM 2314, 2319, 5445 (System/3) and equivalent disc drives. When used on these drives, data is recorded on each of the 20 recording surfaces at a packing density of 2200 bits per inch on 200 tracks per surface. Actual bit or byte capacity is determined by the drive and program parameters. In addition to the 100 tracks per inch (TPI) type pack, Memorex also produces a 200 TPI Mark VI for use on drives requiring this higher track density.

Each Mark VI is constructed with 11 recording discs, one top protective cover disc and a sector disc with a single index slot. The assembled Mark VI is guarded against damage and contamination by a sealed Lexan* coverset which is both fire and shatter proof.

*Registered trademark of General Electric Co.



MEMOREX

Mark VI Disc Pack

THE COMPUTER HISTORY MUSEUM



1 027 4509 1

MEMOREX

Mark VI Disc Pack

Mark VI Disc Pack Technical Data

Compatibility

The Mark VI is designed for use on the Memorex 3660, IBM 2314, IBM 5445 and other compatible disc drives.

General Specifications

The Mark VI will meet or exceed the specifications detailed in IBM's Reference Manual A26-5554.

Physical Dimensions

(Including coverset)

Height	5.75 inches
Diameter	15 inches
Weight	14 pounds
Shipping Weight	19 pounds

Disc Information

Total discs per pack	13 each
Top protective disc	1 each
Bottom sector disc	1 each
Recording discs	11 each
Disc thickness	0.050 inch
Nominal coating thickness	100 μ inch
Surface smoothness	2 μ inch (arithmetic average)

Recording Surfaces

Data surfaces per pack 20 each
(Top protective disc, top surface of top recording disc and bottom surface of bottom recording disc are not used for recording.)

Data Storage

Bits per inch (inside track) 2200
Bytes per pack (when used on the Memorex 3660 or IBM 2314 compatible drives; 100 tracks per inch) 29.17 million

When used on 200 TPI drives, the bytes per pack is 58.34 million

Alternate Tracks	3 per surface (100 TPI)
	60 per pack (100 TPI)
	6 per pack (200 TPI)
	120 per pack (200 TPI)

Data Tracks	200 per surface (100 tracks per inch)
	4000 per pack (plus 60 available alternates)
	400 per surface (200 tracks per inch)
	8000 per pack (plus 120 available alternates)

Recommended Environment

Temperature	60-120°F (in drive)
Relative humidity	8-80%
Maximum wet bulb	78°F

Shipping Environment

Temperature	40° to 150°F
-------------	--------------

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