

MEMOREX

Mark X/L  
Disc Pack

# Mark X/L High Performance Disc Pack



## A lifetime of superior reliability

The unmatched performance of the Mark X disc pack, which has been proven in thousands of computer installations world-wide, now allows Memorex to extend its product guarantee to a Lifetime Warranty. Incorporating the same superior components and improved coating formulations and techniques, the Mark X/L is subjected to the identical rigid inspection and testing as its predecessor, the Mark X. After years of field testing and laboratory analysis, the Mark X/L now carries a Lifetime Warranty. Given proper care and handling on regularly maintained equipment, Mark X/L will last a lifetime.

## The reliable alternative

Memorex is the largest independent manufacturer of disc packs in the world and the Mark X/L is fully compatible with IBM 3330, Memorex 3670 and comparable disc drives. It features 10 recording discs providing 20 recording surfaces with a storage capacity of 100,018,000 bytes. Packs are initialized with home addresses and record zeros to facilitate VOL and

VTOC assignments as soon as packs are delivered. Stringent process controls and precision product testing are mandatory ingredients of each Mark X/L.

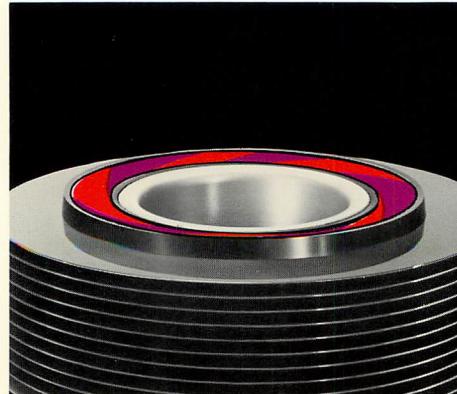
## Start with the best

The quality of any product is dependent upon its component parts and Memorex disc pack substrates, comprised of aluminum aircraft type alloy, are submitted to nine quality control checks before they are accepted for coating. Both the substrate and coated surface are polished to achieve a surface smoothness comparable to an optically ground surface. Substrates are inspected by precision

measuring equipment that analyzes surface contour and finish to micro-inch tolerances. Prior to coating, the substrates undergo proprietary processing to enhance coating adhesion characteristics.

## Coating with extra care

As a leader in the development of magnetic tape and audio tape, it naturally follows that Memorex would develop a special coating formulation with superior attributes. The coating is applied, using spin-coating techniques with micro-inch accuracy, in environmentally controlled clean rooms to virtually eliminate potential contamination factors. Coated discs are repolished to a mirrorlike finish after curing to exacting temperatures. The result is a hard, smooth, tough coating that will last a lifetime.





### Mark X/L Lifetime Warranty

Memorex Corporation warrants the Mark X/L Disc Pack to be free of all defects in workmanship and material for the life of the product.

Any Mark X/L Disc Pack which is suspected of a defect in workmanship or material may be returned by the purchaser to Memorex prepaid, properly identified and packaged. If, upon inspection, Memorex determines that the pack failure was a result of a defect in material or workmanship, the Mark X/L will be repaired or replaced at no charge. If it is ascertained that the defect was the result of improper handling or storage, transportation in unauthorized shipping containers, malfunctioning disc drives, normal wear or other than a manufacturing responsibility, the defective pack will be repaired at a price governed by Memorex's current schedule of repair charges. The customer will be invoiced for such charges and the disc pack returned freight collect.

This warranty pertains only to the original buyer and is not transferable. When leased Mark X/L disc packs are subsequently purchased, the effective warranty period commences on the date the pack was shipped to the lessee.



The liability of Memorex Corporation under this warranty is limited solely to replacing, repairing or issuing credit, at its discretion, for the products that are defective and in no event shall Memorex Corporation be liable for any other damages, including incidental and consequential damages. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex, by word or action, shall constitute a warranty.



### Confirming disc excellence

Before assembly, each disc is subjected to a total surface magnetic check by tracking control test heads in overlapping paths to detect any potential anomalies. After assembly, disc packs are dynamically dual-plane balanced to eliminate any chance of wobble. Proprietary techniques are employed to permanently affix any necessary balance-weights to prevent them from dislodging at spindle head speeds in excess of 3600 rpm. Servo tracks are then written on the disc pack by a special machine to assure precise cylinder location and absolute track alignment regardless of the number of different spindles used to drive the disc pack. Finally, disc packs are tested on specially designed Memorex disc drives to

simulate marginal signal conditions under worst-case data combinations. After all this, the disc packs are packaged in special containers for shipment to sites for a lifetime of service.

### Flexible lease plans

Memorex offers a variety of leasing arrangements allowing custom tailoring to individual requirements. These range from fixed-term lease with accrued purchase credits to full-payout leases. Also, a generous allowance is made on Mark I and Mark VI packs when trading up to the Mark X/L.

### Specifications

Number of discs per pack:

- 10 data discs
- 1 top protective disc
- 1 bottom protective disc

Number of recording surfaces:

- 19 plus servo

Number of cylinders:

- 404 plus 7 alternatives

Number of tracks:

- 7,676 plus 133 alternatives

Storage per pack:

- 100,018,000 bytes

Storage per cylinder:

- 247,570 bytes

Storage per track: 13,030 bytes

Shipping weight: 26.5 pounds

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