



**One floppy disk rises above all others.
Maxell. The Gold Standard.**

A new warranty as good as gold: backed for a lifetime.

Improve your memory. Go on The Gold Standard.

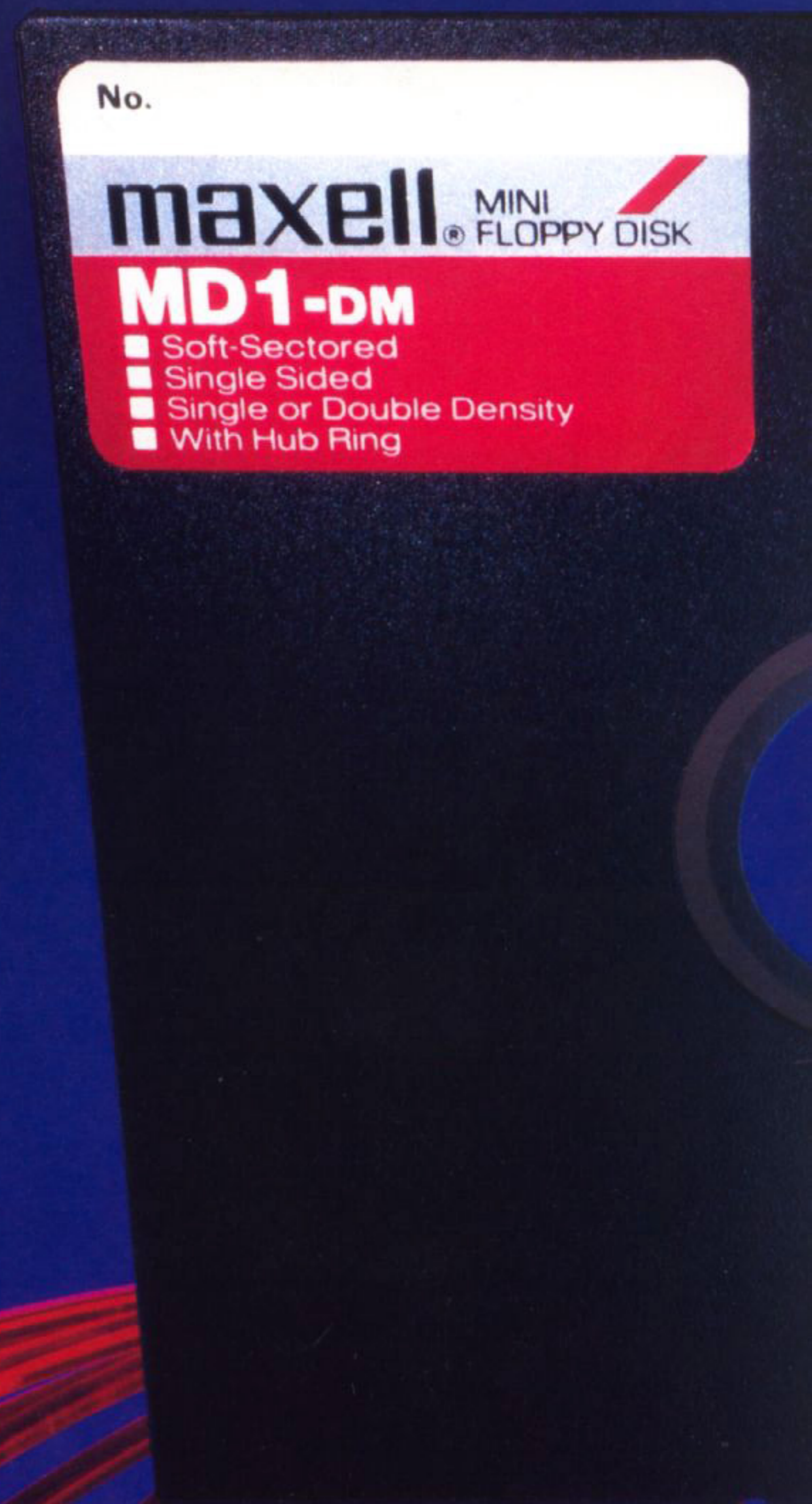
You'll be working with the floppy deemed so reliable, so faultless in performance, that drive manufacturers choose it for the critical testing and certifying of new drive equipment.

What distinguishes Maxell?
Improvements great and small,
achieved in a decade of innovation.

We've illustrated these refinements in some depth, for your interest is certainly above the average. But, in essence, Maxell is all you need to know. Troubles such as dropouts have been virtually eliminated.

Indeed, your Maxell floppy disk is endowed with such a perfect memory it comes with a lifetime warranty.

A warranty born of manufacturing procedures so singular to the industry the only standard is our own.
The Gold Standard.



The makings of The Gold Standard

New Jacket Material

provides a heat-resistant covering that can withstand the build-up of drive heat to 140° F. Even in prolonged use, it shields against internal heat expansion and prevents disk mistracking, warp or wear.

Perfected Hub Ring

buttresses disk alignment for problem-free tracking. A unique non-migrating adhesive sets the ring in place. Its properties defy drive heat and extended use, and maintain a perfectly placed ring for the life of the disk.

Unique Crystal Uniformity

endows each magnetic unit, or oxide particle, with a geometric regularity that assures dense oxide packing. It translates into maximum signal retention to safeguard the information on the disk.

Advanced Binder System

maintains such strict adhesion to the base material, oxide shedding is all but eliminated. And dropouts are a virtual impossibility.

Intensified Calendering

polishes the surface and stabilizes magnetic properties for a read/write signal that stays clean and accurate. Maxell achieves this without the excessive pressure that so often results in oxide shedding, clogged read/write heads or an abrasive disk surface.

Refined Lubricants

reduce friction between head and disk and prolong media and head life. Some disks are surface lubricated. Our disks are impregnated with lubricant throughout the oxide coating's depth, so the benefits can't wear off.

Maxell 5 1/4" Gold Standard Floppy Disks



- Lifetime Warranty
- Lowest abrasiveness in the industry for extended head life
- High resistance to dimensional changes caused by temperature or humidity fluctuations

- Superior hub rings†
- Peak-shift and jitter are checked to meet the requirements of double density and double track (96 TPI) use
- Tested and certified error-free

MD Series: 5¼", Soft-sectored, Unformatted

MD1-D

**Single-sided,
single or
double density**

Track Quality: Missing pulse "0", Extra pulse "0", All 40 tracks are certified to be error-free.
Recording Density: 2,768 BPI max./5,536 BPI max.
Capacity: 81,920 bytes/163,840 bytes (128 bytes/256 bytes x 16 sectors x 40 tracks)
Compatibility/Conformity: Compatible and interchangeable with Shugart SA 104

MD1-DD

**Single-sided,
double density,
double track**

Track Quality: Missing pulse "0", Extra pulse "0", All 80 tracks are certified to be error-free.
Recording Density: 5,576 BPI max.
Capacity: 327,680 bytes (256 bytes x 16 sectors x 80 tracks)
Compatibility/Conformity: Compatible and interchangeable with Shugart SA 114

MD2-D

**Double-sided,
double density**

Track Quality: Missing pulse "0", Extra pulse "0", All 40 tracks are certified to be error-free.
Recording Density: 5,876 BPI max.
Capacity: 327,680 bytes (256 bytes x 16 sectors x 40 tracks x 2 sides)
Compatibility/Conformity: Compatible and interchangeable with Shugart SA 154

MD2-DD

**Double-sided,
double density,
double track**

Track Quality: Missing pulse "0", Extra pulse "0", All 80 tracks are certified to be error-free.
Recording Density: 5,922 BPI max.
Capacity: 655,360 bytes (256 bytes x 16 sectors x 80 tracks x 2 sides)
Compatibility/Conformity: Compatible and interchangeable with Shugart SA 164

MD2-HD

**Double-sided,
high density,
double track**

Track Quality: Missing pulse "0", Extra pulse "0", All 154 tracks are certified to be error-free.
Recording Density: 9,650 BPI max.
***Capacity:** 985,088 bytes (256 bytes x 26 sectors x 74 tracks x 2 sides) • 1,136,640 bytes (512 bytes x 15 sectors x 74 tracks x 2 sides) • 1,212,416 bytes (1,024 bytes x 8 sectors x 74 tracks x 2 sides)
***Note:** Re-initialization is required for other formats.
Single density: 256 bytes x 15 sectors • 512 bytes x 8 sectors. **Double density:** 256 bytes x 26 sectors • 512 bytes x 15 sectors • 1,024 bytes x 8 sectors.

†Double track (96 TPI) and high density 5¼" disks do not come with hub rings.

Major OEM manufacturers advise against hub rings for these formats, as they may cause mistracking.

Maxell 5 1/4" Gold Standard Floppy Disks



MH Series: 5¹/₄" Hard-sectored, Unformatted

MH1-10D

Single-sided,
single or
double density,
10 sector holes

Track Quality: Missing pulse "0"; Extra pulse "0";
All 40 tracks are certified to be error-free.
Recording Density: 2,768 BPI max./5,536 BPI max.
Capacity: 102,400 bytes/204,800 bytes
(256 bytes/512 bytes x 10 sectors x 40 tracks)
Compatibility/Conformity: Compatible and
interchangeable with Shugart SA 107

MH1-16D

Single-sided,
single or
double density,
16 sector holes

Track Quality: Missing pulse "0"; Extra pulse "0";
All 40 tracks are certified to be error-free.
Recording Density: 2,768 BPI max./5,536 BPI max.
Capacity: 81,920 bytes/163,840 bytes
(128 bytes/256 bytes x 16 sectors x 40 tracks)
Compatibility/Conformity: Compatible and
interchangeable with Shugart SA 105

MH2-10D

Double-sided,
double density,
10 sector holes

Track Quality: Missing pulse "0"; Extra pulse "0";
All 40 tracks are certified to be error-free.
Recording Density: 5,876 BPI max.
Capacity: 409,600 bytes (512 bytes x 10 sectors x 40
tracks x 2 sides)
Compatibility/Conformity: Compatible and
interchangeable with Shugart SA 157

MH2-16D

Double-sided,
double density,
16 sector holes

Track Quality: Missing pulse "0"; Extra pulse "0";
All 40 tracks are certified to be error-free.
Recording Density: 5,876 BPI max.
Capacity: 327,680 bytes (256 bytes x 16 sectors x 40
tracks x 2 sides)
Compatibility/Conformity: Compatible and
interchangeable with Shugart SA 155

MH2-16DD

Double-sided,
double density,
double track,
16 sector holes

Track Quality: Missing pulse "0"; Extra pulse "0";
All 160 tracks are certified to be error-free.
Recording Density: 5,922 BPI max.
Capacity: 655,360 bytes (256 bytes x 16 sectors x 80
tracks x 2 sides)

MD Series and MH Series Specifications

Physical Properties

Jacket: **Outer Dimensions (mm)** 133.4 x 133.4 nominal
Thickness (mm) 1.65 nominal
Material Vinyl Chloride
(special non-woven
fabrics are used for liner)

Disk: **Total Thickness (μm)** 80 nominal
Light Transmittance (%) Less than 0.5
Outer Diameter (mm) 130.2 nominal
Inner Diameter (mm) 28.6 nominal

Environmental Conditions for all Maxell Floppy Disks

Operation and Storage—

Temperature: 10°C-51.6°C (50°F-125°F)
Humidity: 8%-80% relative humidity

Transportation—

Temperature: -40°C-51.6°C (-40°F-125°F)
Humidity: 8%-80% relative humidity

Maxell 8" Gold Standard Floppy Disks



- Lifetime Warranty
- Exceed ANSI single and double density specifications
- Entire surface is characterized by uniform electromagnetic properties, resulting in uniform output

- Peak-shift and jitter are checked to meet the requirements of double density use
- Tested and certified error-free

FD Series: 8", Soft-sectored

FD1-128

**Single-sided,
single or
double density**

Format: Preinitialized for compatibility with IBM Diskette P/N 2305830
Recording Density: 3,268 BPI max./6,536 BPI max.
Capacity: 242,944 bytes/485,888 bytes (128 bytes/256 bytes x 26 sectors x 73 tracks)
Compatibility/Conformity: Full conformity to proposed specifications of ISO, ECMA, ANSI, and JIS as well as IBM Diskette Standard GA21-9190

FD2-XD

**Double-sided,
double density**

Format: Unformatted
Recording Density: 6,816 BPI max.
***Capacity:** 985,088 bytes (256 bytes x 26 sectors x 74 tracks x 2 sides) • 1,136,640 bytes (512 bytes x 15 sectors x 74 tracks x 2 sides) • 1,212,415 bytes (1,024 bytes x 8 sectors x 74 tracks x 2 sides)
Compatibility/Conformity: Full conformity to IBM Diskette Standard GA21-9257
***Note:** Re-initialization is required for other formats.
Single density: 256 bytes x 15 sectors • 512 bytes x 8 sectors. **Double density:** 256 bytes x 26 sectors • 512 bytes x 15 sectors • 1,024 bytes x 8 sectors.

FH Series: 8", Hard-sectored

FH1-32D

**Single-sided,
double density,
32 sector holes**

Recording Density: 6,536 BPI max.
Capacity: 630,784 bytes (256 bytes x 32 sectors x 77 tracks)
Compatibility/Conformity: Compatible and interchangeable with Shugart SA 101

FH2-32D

**Double-sided,
double density,
32 sector holes**

Recording Density: 6,816 BPI max.
Capacity: 1,261,568 bytes (256 bytes x 32 sectors x 77 tracks x 2 sides)
Compatibility/Conformity: Compatible and interchangeable with Shugart SA 151

FD Series and FH Series Specifications

Track Quality: Missing pulse "0"; Extra pulse "0"; All 77 tracks/154 tracks are certified to be error-free.

Physical Properties

| | | | |
|--------------------------------------|---|--|---------------|
| Jacket: Outer Dimensions (mm) | 203.2 x 203.2 nominal | Disk: Total Thickness (μm) | 80 nominal |
| Thickness (mm) | 1.8 nominal | Light Transmittance (%) | Less than 0.5 |
| Material | Vinyl Chloride (special non-woven fabrics are used for liner) | Outer Diameter (mm) | 200.2 nominal |
| | | Inner Diameter (mm) | 38.1 nominal |

Write-Protect Notch and Labels. When ordering Series FD and FH Floppy Disks, please indicate whether or not you want the optional Write-Protect Notch and Labels. To order FD and FH Floppy Disks without notch and labels, add 1100 following the part number. To order with notch and labels, add 1200 following the part number.

CF-2:3" Compact Floppy Disk



**Soft-sectored, double-sided,
high density, 100 TPI**

Track Quality: Missing pulse "0"; Extra pulse "0";
All 80 tracks are certified to be error-free.

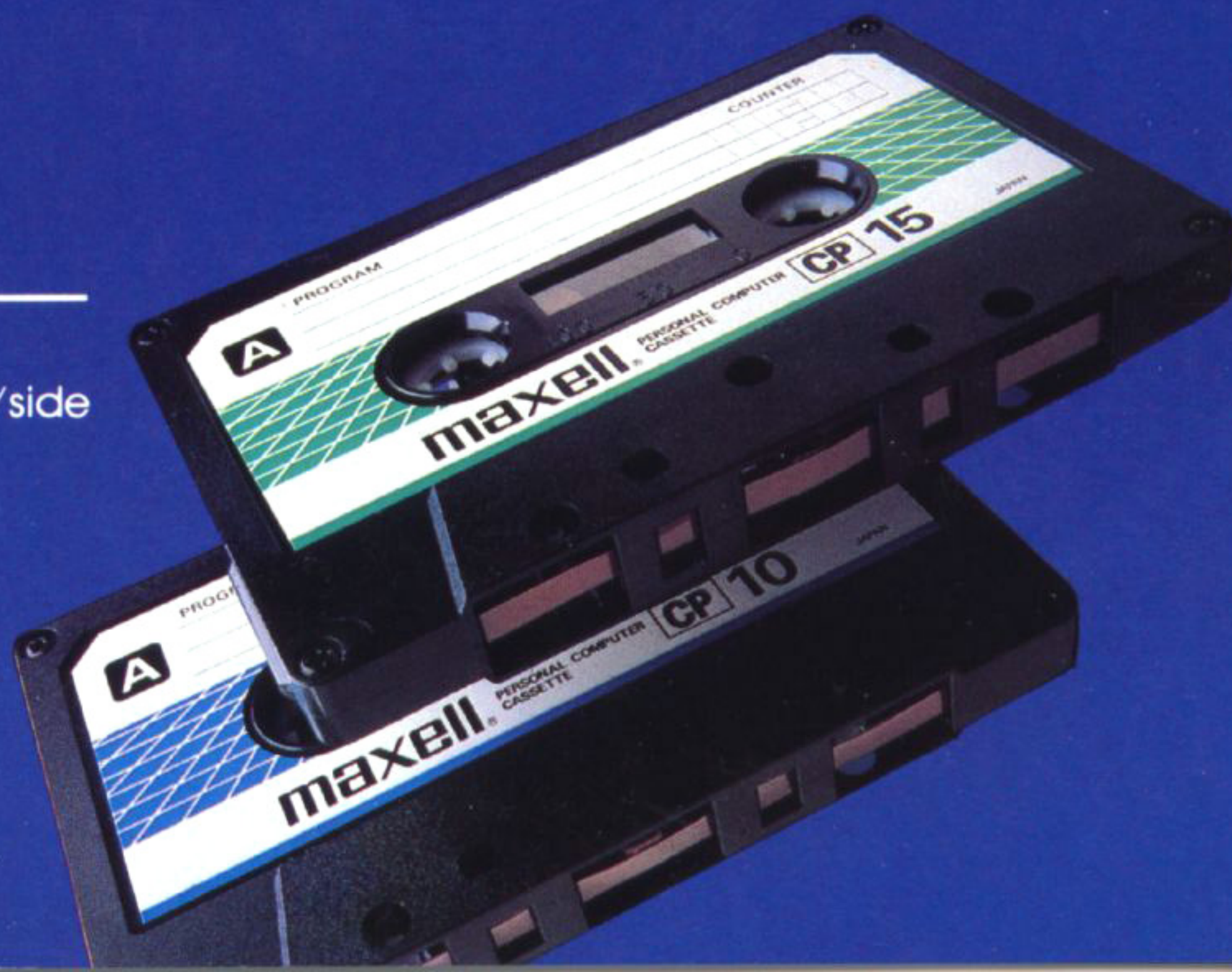
Recording Density: 9,000 BPI max.

Capacity: 327,680 bytes (256 bytes x 16
sectors x 10 tracks x 2 sides).

Data Cassettes: CP-10, CP-15

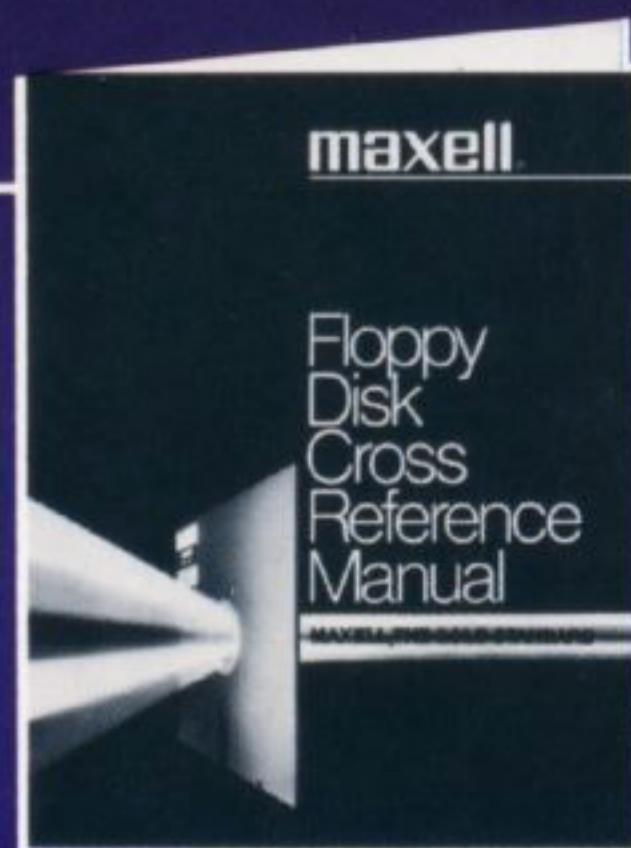
Developed expressly for personal computers, each utilizes high output tape design, so vital for digital applications. Short anchoring leader initiates read/write instantly. Housing guarantees smooth, stable operation.

| | CP-10 | CP-15 |
|--|----------------|------------------|
| Tape Length | 15m | 22m |
| Recording Time | 5 minutes/side | 7.5 minutes/side |
| Tape Thickness | 19 μ m | 19 μ m |
| Short Anchoring Leader Length | 34mm | 34mm |



All product specifications
are subject to change without notice.

There's a Gold Standard Floppy for every disk drive.



To help you select the right disk, Maxell provides a Floppy Disk Cross Reference Manual that lists over 900 computers manufactured or marketed by over 300 companies. It's available from your Maxell dealer or distributor. The table below shows which Maxell Floppy Disk replaces other floppy disks.

| TYPE | PRODUCT DESCRIPTION | MAXELL | SHUGART | IBM | DYSAN | 3M | VERBATIM | MEMOREX | WABASH |
|--|--|---------------------------------|---------|---------|---------|--------------|--|---------|-----------|
| 8" Single-sided Soft-sectored | Single-sided Single Density 128 Bytes | FD1-128-1100 FD1-128-1200* | SA100 | 2305830 | 3740 | 740-0 | FD34-1000, 3718 (FD34-9000, 3714 Critical Certification) | 3060 | F111111X |
| | Single-sided Double Density 256 Bytes | FD1-128-1100 FD1-128-1200* | SA102 | — | 3740D | 741-0 | FD34-8000 FD34-4495 | — | F13A211X |
| 8" Single-sided Hard-sectored | Single-sided Single Density 32 Sectors | FH1-32-D-1200* FH1-32-D-WR** | SA101 | — | 101S | 740-32 | FD32-1000, 3716 (FD32-9000, 3713 Critical Certification) | 3015 | F31A411X |
| | Single-sided Double Density 32 Sectors | FH1-32-D-1200* FH1-32-D-WR** | SA103 | — | 101D | 741-32 | FD32-8000 FD32-4494 | 3091 | F33A411X |
| 8" Double-sided Double Density Soft-sectored | 26 Sectors 256 Bytes | FD2-XD-1100† FD2-XD-1200*† | SA150 | 1766872 | 800/850 | 743-0 (256) | DD34-4001 | 3103 | F14A211X |
| | 15 Sectors 256 Bytes | FD2-XD-1100† FD2-XD-1200*† | — | 2736700 | — | 743-0 (3601) | FD10-4015 | 3106 | F122111X |
| | 15 Sectors 512 Bytes | FD2-XD-1100† FD2-XD-1200*† | — | 1669044 | 800/850 | 743-0 (512) | DD34-4015 | 3114 | F145111X |
| | 8 Sectors 1024 Bytes | FD2-XD-1100† FD2-XD-1200*† | — | 1669045 | 800/850 | 743-0 (1024) | DD34-4008 | 3104 | F147111X |
| 8" Double-sided Double Density Hard-sectored | 32 Sectors 256 Bytes | FH2-32D-1200* | SA151 | — | 800/851 | 743-32 | DD32-4000 | 3105 | F34A411X |
| 5 1/4" Mini Single-sided Single/Double Density | Soft-sectored | MD1-D** | SA104 | — | 104 | 744D-0 | MD525-01 (4443) | 3401 | M11A211X |
| | 10 Hard Sectors | MH1-10D** | SA107 | — | 107 | 744D-10 | MD525-10 (4445) | 3403 | M41A211X |
| | 16 Hard Sectors | MH1-16D** | SA105 | — | 105 | 744D-16 | MD525-16 (4444) | 3405 | M51A211X |
| 5 1/4" Mini Double-sided Single/Double Density | Soft-sectored | MD2-D** | SA154 | — | 104/2D | 745-0 | MD550-01 (6738) | 3421 | M14A-211X |
| | 10 Hard Sectors | MH2-10D** | SA157 | — | 107/2D | 745-10 | MD550-1 (6740) | 3423 | M44A-211X |
| | 16 Hard Sectors | MH2-16D** | SA155 | — | 105/2D | 745-16 | MD550-16 (6739) | 3425 | M54A-211X |
| 5 1/4" Mini 96 TPI Soft-sectored | Single-sided | MD1-DD (96 TPI) | SA410 | — | 204/1D | 746-0 | 577-01 | 3504 | — |
| | Double-sided | MD2-DD (96 TPI) | SA460 | — | 204/2D | 747-0 | 557-01 | 3501 | — |
| 5 1/4" Mini 96 TPI Hard-sectored | Single-sided 16 Hard Sectors | — | — | — | 205/1D | — | MD-577-16 | — | — |
| | Double-sided 16 Hard Sectors | MH2-16DD (96 TPI) | — | — | 205/2D | 747-16 | MD-557-16 | 3425 | — |

*Denotes Write Protect Feature **Reinforced Center Rings are Standard

†FD2-X-DM-1100 and FD2-X-DM-1200 are uninitialized and can be formatted to any byte configuration (256, 512 or 1024).

The Golden Rules of Floppy Care

You can expect trouble-free computing if you remember these basic rules.

- Don't touch the disk surface. Even a fingerprint can cause errors.
- Don't use alcohol, thinners or freon to clean the disk.
- Don't expose the disk to magnetic or magnetized objects. Magnetic fields can result in data loss.
- Don't bend, fold, or use rubber bands or paper clips on the disk. Any warping can lead to mistracking.
- Don't rest heavy objects on the disk.
- Always keep disks in their protective jackets when not in the drive unit.
- Always store disks upright in their boxes.
- Always use a felt tip pen when labeling. Pencil or ball point pressure can destroy floppy precision.
- Always keep disks clear of eraser crumbs, dust and particles.
- Always operate and store between 10°C (50°F) and 51.6°C (125°F), 8%-80% relative humidity.
- When shipping, disks should be kept in their envelopes within a protective box and maintained between -40°C to 51.6°C (-40°F to 125°F), 8%-80% relative humidity.



maxell.
IT'S WORTH IT.

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