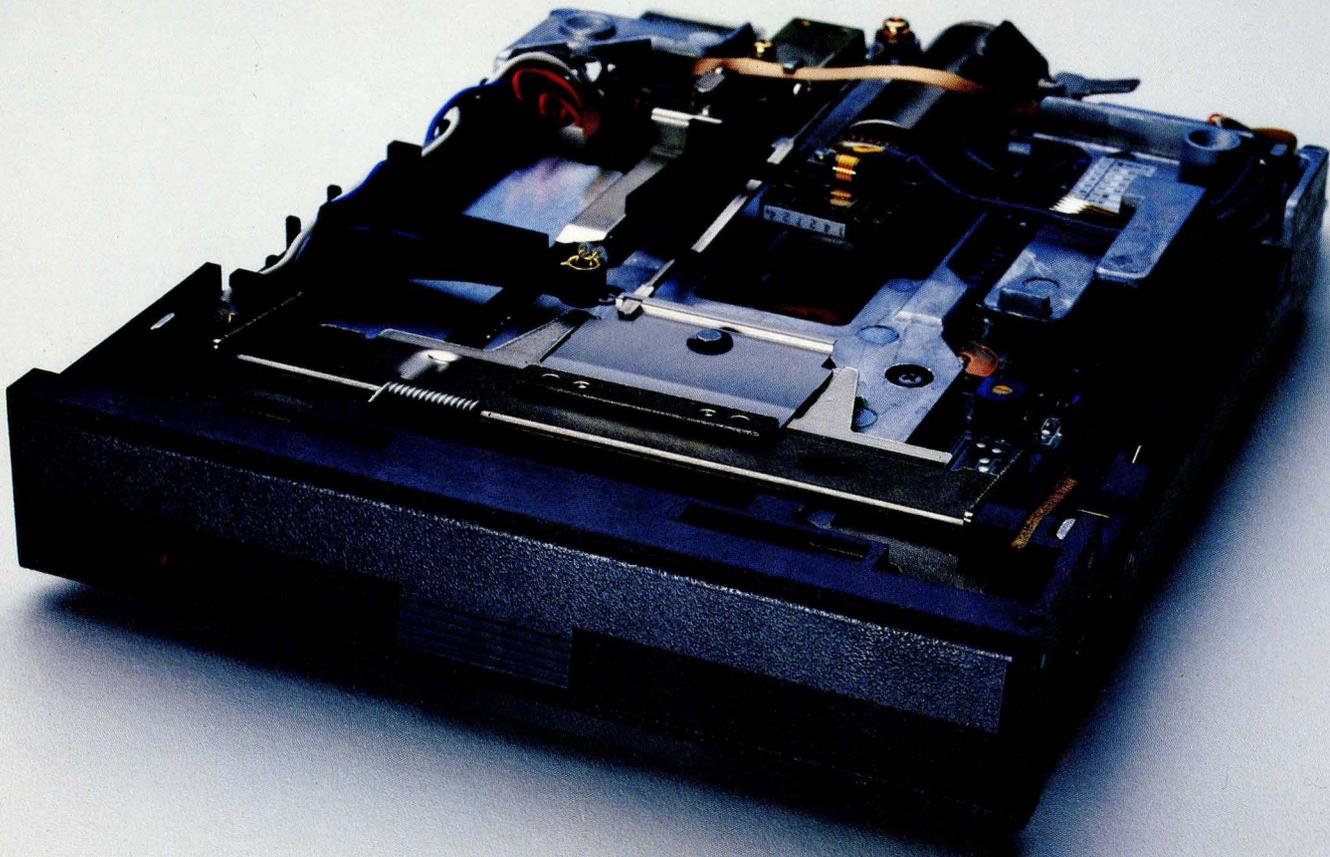


**Ultra-reliable,
low power
disk drives
from OKIDATA.[®]**



OKIDATA's family of streamlined, high-reliability 5-1/4" Floppy Disk Drives are designed for use in a variety of OEM systems, and they are available in two 1/3 high unit versions to accommodate even the smallest microcomputer configurations. But don't let their size fool you — these drives are double-sided and have unformatted capacities of either 500K bytes or 1.6 megabytes, enough for virtually any application.

The most sophisticated state-of-the-art technology has been incorporated into the GM3000 series to insure compactness and light weight, without any loss of capability. Advanced electro-mechanical engineering and streamlined designing simplify the drives.

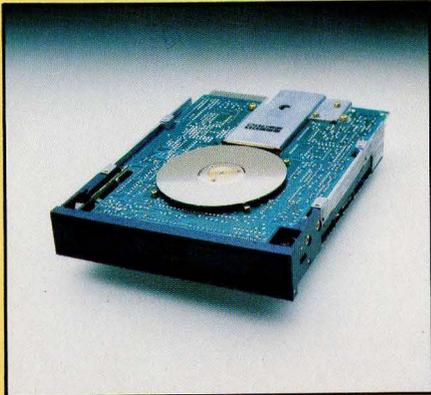
Because these drives are manufactured by OKIDATA, OEMs won't have to risk buying from an unknown supplier. OKIDATA is widely recognized for their advancements in leading edge technology and has an outstanding reputation for quality, reliable products. As an established forerunner in the printer industry, OKIDATA has extensive experience serving a variety of OEM companies, and an awareness of the commitment and

quality service necessary to keep these most demanding of customers satisfied.

The highest MTBF/Duty Cycle in the industry attests to the superior engineering, quality components and consistent production carried through in OKIDATA Floppy Disk Drives. With key features such as a microprocessor-driven buffered positioner and head assembly engineered with only one moving part, and a direct drive spindle motor, microprocessor-driven for quartz-locked accuracy, the GM3000 series provides the advanced capabilities and the quality and dependability needed in any state-of-the-art system. OKIDATA guarantees this reliability with a full year warranty on parts and labor.

The years of research behind all OKIDATA products is reflected in the superior performance of our disk drives. If you'd like your system to include some of the finest components available, consider OKIDATA Floppy Disk Drives, and then contact an OKIDATA OEM sales office. The quality and precision engineering of OKIDATA products will be a benefit to any of your products.

F E A T U R E S



Both GM3000 series 1/3 high units consume very little power (4 to 4.5 watts operating) allowing for battery or standard power supply interface operation. Standby power consumption is under 300 milliwatts.

The GM3000 series has the highest MTBF in the industry—11K Power On Hours with 100% duty cycle. Most others have only 8K to 10K with a mere 25% duty cycle.

Very light weight (2 lbs.), less than that of most competitors' disk drives (often over 3 lbs.) and helps pare down overall system weight.

Spindle motor is microprocessor-driven and direct drive, assuring accurate quartz-locked speed, and eliminating the need for motor speed adjustments.

A compact linear stepping motor is integrated with the head assembly and provides for high speed track-to-track access with only one moving part. This arrangement eliminates mechanical assemblies such as bands and lead screws, and requires no adjustments.

Industry-standard interface insures ease of installation and plug compatibility with OEM systems.

Interposer mechanism prevents head damage when door is closed and no diskette has been inserted.

Buffered stepper capable of accepting a stream of step pulses 800 microseconds (min.) apart. Actual stepping is 3 to 4 mSec. per track.

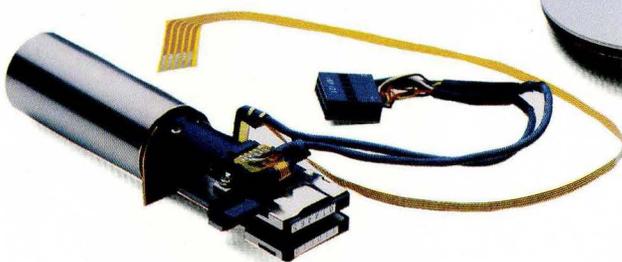
Spindle collet expands for precise centering of floppy disks.

Very low soft error rate, hard error rate and seek rate insure data integrity.

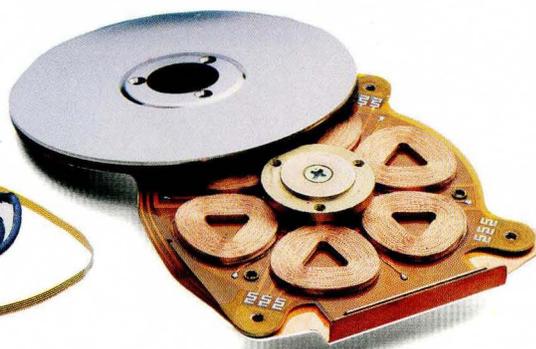
Ceramic Read/Write heads are designed for soft media contact.

Industry-standard 5-1/4" drives are compatible with most software libraries.

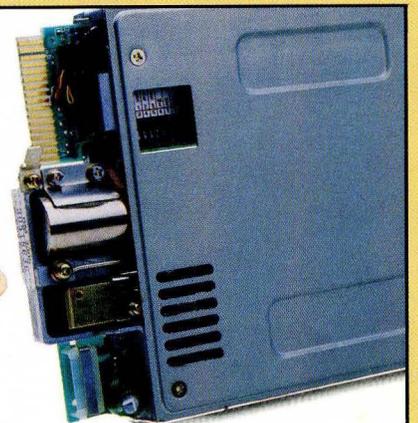
One year warranty on parts and labor guarantees OKIDATA reliability.



Positioner and Head Assembly—OKIDATA's head assembly has an integrated compact linear stepping motor, and is engineered with only one moving part, eliminating such mechanical assemblies as bands and lead screws.



Spindle Motor Assembly—A direct drive, microprocessor-driven spindle motor with highly reliable bearings, functions with quartz-locked accuracy, and eliminates the need for motor speed adjustments; designed for silent continuous operation.



DIP Switch—Easily accessible DIP switch can be set for drive address, terminator and head load/motor start options, eliminating the need for opening the drive and moving jumpers.

S P E C I F I C A T I O N S

GM3305CU

GM3505BU
MODEL 1 **MODEL 2**
(HDM/LDM) **(HDM/LDM)**

FUNCTIONAL

Capacity (bytes unformatted)
 Recording Density (BPI)
 Track Density (TPI)
 Number of Cylinders
 Number of Tracks
 Recording Method
 Interface
 Media
 Rotational Speed (RPM)
 Data Transfer Rate (Kbits/Sec.)
 Average Rotational Latency (mSec.)
 Access Time:
 Track to Track (mSec.)
 Settling (max. - mSec.)
 Average (w/settling - mSec.)
 Min. between Step Pulses (uSec.)
 Motor Starting Time (typ. mSec.)
 Power Consumption:
 Typical Operation (watts)
 Standby (watts)
 DC Power Requirements

500K	1.6/1.0 M	1.6/1.0 M
5876	9869/5921	9869/5921
48	96	96
40	80	80
80	160	160
MFM	MFM	MFM
Standard — Shugart		
Any media which meets or exceeds ANSI, ECMA, JIS, or Shugart media specifications.		
300	360	360/300
250	500/300	500/250
100	83.3	83.3/100
Access Time:		
4	3	3
15	15	15
68	95	95
800	800	800
500	500	500
Power Consumption:		
4.0	4.5	4.5/4.0
0.1	0.3	0.3
DC Power Requirements		
+12 VDC +/- 5%	+12 VDC +/- 5%	+12 VDC +/- 5%
+5 VDC +/- 5%	+5 VDC +/- 5%	+5 VDC +/- 5%

PHYSICAL

Dimensions:
 width
 height
 depth
 Weight (lbs.)
 Environmental Conditions:
 Operating
 Non-operating
 Shock:
 Operating
 Non-operating

5.75 inches (146 mm)		
1.12 inches (28.5 mm)		
7.95 inches (202 mm)		
2.1 (0.95 Kg)	2.2 (1.0 Kg)	2.2 (1.0 Kg)
Temperature 5-46.1°C, (41-115°F); Relative Humidity 20-80%		
Temperature -20-60°C, (-4-140°F); Relative Humidity 5-90%		
(non-condensing for operating and non-operating)		
0.5g for 11 mSec.	0.5g for 11 mSec.	0.5g for 11 mSec.
60g for 11 mSec.	60g for 11 mSec.	60g for 11 mSec.

RELIABILITY

MTBF
 MTTR
 Minimum Product Life
 Soft Read Error Rate
 Hard Read Error Rate
 Seeking Error Rate
 Diskette Life:
 No. of passes
 No. of insertions
 Preventive Maintenance
 Warranty

11,000 POH at 100% duty cycle		
30 minutes	30 minutes	30 minutes
5 years	5 years	5 years
1 per 10 ⁹ bits	1 per 10 ⁹ bits	1 per 10 ⁹ bits
1 per 10 ¹² bits	1 per 10 ¹² bits	1 per 10 ¹² bits
1 per 10 ⁶ seeks	1 per 10 ⁶ seeks	1 per 10 ⁶ seeks
3.5 x 10 ⁶	3.5 x 10 ⁶	3.5 x 10 ⁶
30,000 (minimum)		
None	None	None
One year parts and labor		

Call 1-800-OKIDATA and ask for the OEM sales office nearest you. In New Jersey 609-235-2600. OKIDATA, Mt. Laurel, NJ 08054.



Head load solenoid available as a factory option on model GM3505BU
 Head loading time with option installed — 50 mSec.