



# Diamond **Max** 80

Maximize your computer's data storage capacity and performance with Maxtor DiamondMax® 80 hard drives. These high-capacity drives, available in formatted capacities up to 81.9 GB, are designed for high-end desktops and workstations. They're ideally suited to storage-hungry multimedia and Internet applications where high burst and sustained transfer rates are crucial. Their Ultra ATA/100 interface, 2 MB SDRAM cache buffer and a 9 ms average seek time provide data transfer speeds up to 100 megabytes per second. They employ Maxtor's Adaptive ATA Control™ for unsurpassed data integrity and Maxtor's Silent Store™ technology for whisper-quiet acoustic performance. Whether your application is technical, multimedia or Internet-based, the DiamondMax 80 delivers an unbeatable combination of capacity, speed and reliability.

## 5400 RPM

3.5-INCH
HIGHPERFORMANCE
HARD DRIVES

Capacities up to 81.9 GB

Designed for High-end Desktops and Workstations

#### HIGHLIGHTS:

Fast ATA/Enhanced IDE compatible

Digital Signal Processor (DSP)-Based Architecture

Ultra ATA/100 Data Transfer Rate

- 2 MB SDRAM Cache Buffer
- 9 ms Seek Time

No Quibble Service® and Support





**Best Buy** DiamondMax Plus 40 (40 GB) *Computer Shopper*, April 2000



DiamondMax Plus 40 (40 GB) Maximum PC, April 2000



DiamondMax 60 (60 GB) PC World, June 2000



DiamondMax Plus 40 (40 GB) Winmag.com, June 2000



MODEL	98196H8	96147H6	
CAPACITY	81964 MB	61473 MB	
HEADS	8	6	
PLATTERS	4	3	

### Maxtor's DiamondMax 80 series delivers outstanding performance including:

- 20.5 GB of data storage per platter
- Fast data transfer rates (up to 100 MB/sec)
- 5400 RPM spin speed
- 9 ms average seek
- · 2 MB cache buffer
- 3-year warranty



#### PERFORMANCE SPECIFICATIONS

Seek Times (typical)	
Track to Track	1 ms
Average	9 ms
Full Stroke	< 20 ms
Average Latency	5.55 ms
Rotation Speed (± 0.1%)	5400 RPM
Controller Overhead	< 0.3 ms
Start Time (0 - drive ready)	10 sec typical

DATA TRANSFER RATES	
To/From Interface	up to 100 MB/sec
To/From Media	up to 46.7 MB/sec

#### DRIVE CONFIGURATION

Integrated Controller	Ultra ATA/100
Buffer Size	2 MB
Buffer Type	SDRAM
Data Zones per Surface	16
Bytes per Sector/Block	512

#### RELIABILITY SPECIFICATIONS

Start/Stop Cycles	50,000 (minimum)	
Component Design Life	5 years (minimum)	
Data Errors (non-recoverable)	< 1 per 10E14 bits read	
Annual Return Rate (ARR)	< 1%	









All Maxtor products are backed by the No Quibble Service® policy, the benchmark for service and support in the industry. No Quibble includes:

- Advance replacement in 2 business days
- MaxFax® 24-hour automated technical support
- Maxtor's commitment to total customer satisfaction
- Phone technicians available Monday-Friday

For more information or to talk to a customer support representative, call: (U.S. and Canada) 800-2MAXTOR. Available 5 A.M. – 5 P.M. (PT) Mon – Fri; (Europe) +353 1 204 1111. Available 9:30 A.M.- 6 P.M. (CET) Mon-Thurs and 9:30 A.M.- 5 P.M. (CET) Fri; (Asia/Pacific) 800-481-6788. Available 8 A.M.-5:30 P.M. (GMT+8) Mon-Fri; or visit our home page on the Internet at http://www.maxtor.com.

#### POWER REQUIREMENTS (TYPICAL)

MODE	12V±10%	5V±5%	Power
Spin-up (peak)	2000 mA	490 mA	
Seek	650 mA	550 mA	10.6 W
Read/Write	250 mA	550 mA	5.8 W
ldle	250 mA	500 mA	5.5 W
Standby	30 mA	280 mA	1.6 W

#### **ENVIRONMENTAL LIMITS**

#### Acoustics

Idle mode	3.3 bel (average sound power) <sup>1</sup>
TEMPERATURE	

Operating	5° C to 55° C
Non-operating, Storage	-40° C to 71° C

#### RELATIVE HUMIDITY (NON-CONDENSING)

Operating, Non-operating, Storage	5% to 95%
Maximum Wet Bulb, Operating	30° C

#### VIRRATION

Operating, random, no errors <sup>2</sup>	10 to 45 Hz at 0.004 G2/Hz
	48 to 62 Hz at 0.008 G2/Hz

65 to 300 Hz at 0.004 G2/Hz 301 to 500 Hz at 0.0006 G2/Hz

Non-operating, random 10 to 2,000 Hz at 2.15 Grms, no damage Operating, swept sine (.25 octave per minute)

#### 10 to 300 Hz 1.0 G peak amplitude

#### **S**носк

Operating Mechanical Shock	30 Gs, 2 ms, no errors <sup>2</sup>
Non-operating Mechanical Shock	250 Gs. 2 ms. no damage <sup>2</sup>

#### PHYSICAL DIMENSIONS (MAXIMUM)

INIOIOAL	DIMENSIONS (MAXIMOM)		
Height	1.02 in	2.61	cm
Length	5.78 in	14.70	cm
Width	4.00 in	10.16	cm
Weight	1.33 lbs	0.601	kn

