



Breathe new life into your digital A/V and 3-D gaming applications with the DiamondMax<sup>®</sup> Plus 45 series from Maxtor. Offering up to 45 GB of storage, sub-8.7 ms average seek time and a 7200 RPM spin speed, DiamondMax Plus 45 drives are ideally suited to disk-intensive environments where burst and sustained transfer rates are crucial. They feature the latest Ultra ATA/100 interface and a highspeed 2 MB SDRAM cache buffer with advanced buffer management to accommodate data streams up to 100 MB per second. They also employ Maxtor's Adaptive ATA Control<sup>™</sup> for unsurpassed data integrity and the new Maxtor Silent Store<sup>™</sup> technology for whisper-quiet acoustic performance. Maximize your computer data storage with the DiamondMax Plus 45.

# 7200 RPM

3.5-INCH HIGH-PERFORMANCE HARD DRIVES

Capacities up to 45 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

<8.7 ms Seek Time

No Quibble Service<sup>®</sup> and Support





## Maxtor's DiamondMax Plus 45 series delivers outstanding performance including:

- 15.4 GB of data storage per platter
- Fast data transfer rates (up to 100 MB/sec)
- 7200 RPM spin speed
- < 8.7 ms average seek
- 2 MB cache buffer
- 3-year warranty





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



Kick Ass Product DiamondMax Plus 40 (40 GB) Maximum PC, April 2000



Best Hard Drive DiamondMax 60 (60 GB) *PC World*, June 2000



Win100 Award 2000 DiamondMax Plus 40 (40 GB) Winmag.com, June 2000

MODEL	54610H6	53073H4	52049H3	51536H2
CAPACITY	46103 MB	30735 MB	20491 MB	15367 MB
HEADS	6	4	3	2
PLATTERS	3	2	2	1

#### PERFORMANCE SPECIFICATIONS

Seek Times (typical)

Track to Track	1 ms
Average	< 8.7 ms
Full Stroke	< 20 ms
Average Latency	4.17 ms
Rotation Speed (± 0.1%)	7200 RPM
Controller Overhead	< 0.3 ms
Start Time (0 - drive ready)	8.5 sec typical

#### DATA TRANSFER RATES

To/From Interface	up to 100 MB/sec
To/From Media	up to 49.5 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)	< 10 per 10E15 bits read
Annual Return Rate (ARR)	< 1%









All Maxtor products are backed by the *No Quibble Service*<sup>®</sup> 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.

Specifications subject to change without notice. Maxtor defines 1 megabyte as 10<sup>e</sup> or 1 million bytes and 1 gigabyte as 10<sup>o</sup> or 1 billion bytes. <sup>1</sup>Acoustics measured at sea level. <sup>2</sup>Without non-recoverable errors. Adaptive ATA Control<sup>™,</sup> DualWave<sup>™</sup>, MaxSate<sup>™</sup>, Silent Store<sup>™</sup> and ShockBlock<sup>™</sup> are trademarks of Maxtor. DiamondMax<sup>®</sup>, Maxtor<sup>®</sup>, MaxFax<sup>®</sup> and No Quibble Service<sup>®</sup> are registered trademarks of Maxtor Corporation. Copyright © 2000 Maxtor Corporation. Printed in the U.S.A. 9/00 Stock #DMP45/4827 Rev. B

### POWER REQUIREMENTS (TYPICAL)

Mode	12V±10%	5V±5%	Power
Spin-up (peak)	2500 mA	620 mA	
Seek	800 mA	510 mA	12.9 W
Read/Write	525 mA	515 mA	9.0 W
ldle	350 mA	490 mA	6.6 W
Standby	30 mA	270 mA	1.75 W

#### ENVIRONMENTAL LIMITS

Acoustics			
ldle 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		

#### **R**ELATIVE HUMIDITY (NON-CONDENSING)

Operating, Non-operating, Storage	5% to 95%
Maximum Wet Bulb, Operating	30° C
VIBRATION	
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 2,00	10 Hz at 2.15 Grms, no damage
Operating, swept sine (1 octave per	minute)
10 to 300 Hz	1.0 G peak amplitude
<b>S</b> носк	
Operating Mechanical Shock	30 Gs, 2 ms, no errors <sup>2</sup>
Non-operating Mechanical Shock	300 Gs, 2 ms, no damage <sup>2</sup>
<b>PHYSICAL DIMENSIONS</b>	(MAXIMUM)

Height	1.02 in	2.61 cm
Length	5.78 in	14.70 cm
Width	4.02 in	10.21 cm
Weight	1.30 lbs	0.59 kg

