



DiamondMax® **60** **PLUS**

 Expand your computer's storage capacity with the high-performance DiamondMax® Plus 60 hard drive from Maxtor. All DiamondMax Plus drives offer 7200 RPM spin speeds and Maxtor's unique DualWave™ twin processor technology for a 10x boost in host command processing speed and an average seek time under 9 ms. With 2 MBytes of high-speed 100-Mhz SDRAM for the cache buffer and an Ultra ATA/100 interface, these hard drives provide superior benchmark performance and maximum throughput. This makes them ideal for digital audio and video applications and a perfect choice for gamers. DiamondMax Plus drives are designed for users who require high performance along with large storage capacity. At 7200 RPM, systems boot faster, software applications launch quicker and file saving takes much less time. Make sure your system has the capacity to perform—make sure it has Maxtor.

7200 RPM

**3.5-INCH
HIGH-
PERFORMANCE
HARD DRIVES**

Capacities up to 60 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 MByte SDRAM
Cache Buffer*

<8.7 ms Seek Time

*No Quibble Service®
and Support*



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



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



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



Top 100 Products of 2000
DiamondMax 60 (60 GB)
Computer Shopper, October 2000

DiamondMax[®] 60 PLUS

Maxtor's DiamondMax Plus 60 series delivers outstanding performance including:

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



MODEL	5T060H6	5T040H4	5T030H3	5T020H2	5T010H1
CAPACITY	60.5 GB	40.9 GB	30.7 GB	20.4 GB	10.2 GB
HEADS	6	4	3	2	1
PLATTERS	3	2	2	1	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 MBytes/sec
To/From Media	up to 57 MBytes/sec

DRIVE CONFIGURATION

Integrated Controller	Ultra ATA/100
Buffer Size	2 MBytes
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 10E15 bits read
Annual Return Rate (ARR)	< 1%

POWER REQUIREMENTS (TYPICAL)

MODE	12V±10%	5V±5%	POWER
Spin-up (peak)	2950 mA	430 mA	41.2 W
Seek	550 mA	510 mA	9.5 W
Read/Write	600 mA	550 mA	10.0 W
Idle	350 mA	500 mA	6.7 W
Standby	30 mA	150 mA	1.2 W

ENVIRONMENTAL LIMITS

ACOUSTICS

Idle mode	3.3 bel (average sound power) ¹
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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

VIBRATION

Operating, random, no errors ²	10 to 45 Hz at 0.004 G ² /Hz
	48 to 62 Hz at 0.008 G ² /Hz
	65 to 300 Hz at 0.004 G ² /Hz
Non-operating, random	301 to 500 Hz at 0.0006 G ² /Hz
	10 to 2,000 Hz at 2.15 Grms, no damage
Operating, swept sine (1 octave per minute)	10 to 300 Hz
	1.0 G peak amplitude

SHOCK

Operating Mechanical Shock	30 Gs, 2 ms, no errors ²
Non-operating Mechanical Shock	300 Gs, 2 ms, no damage ²

PHYSICAL DIMENSIONS (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



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

- **Maxtor's commitment to total customer satisfaction**
- **Phone technicians available Monday–Friday**
- **Advance replacement in 2 business days**

For more information, visit our home page on the Internet at <http://www.maxtor.com>. To talk to a customer support representative, call: (U.S. and Canada) 800-2MAXTOR, (Europe) +353 1 204 1111 or (Asia/Pacific) 800-481-6788.

Specifications subject to change without notice. Maxtor defines 1 megabyte as 10E6 or 1 million bytes and 1 gigabyte as 10E9 or 1 billion bytes. ¹Acoustics measured at sea level. ²Without non-recoverable errors. Adaptive ATA Control™, DualWave™, MaxSafe™, Silent Store™ and ShockBlock™ are trademarks of Maxtor. DiamondMax®, Maxtor®, MaxFax® and No Quibble Service® are registered trademarks of Maxtor Corporation. Copyright © 2000 Maxtor Corporation. Printed in the U.S.A. 11/00 Stock #DMP60/4992 Rev. B

