

PRODUCT OVERVIEW

Momentum 5400.3

2.5-Inch Storage for Mainstream Notebooks

The industry's first
perpendicular recording
technology drive



KEY FEATURES AND BENEFITS

- Perpendicular recording resets capacity limitations and enables Momentum® drives to easily reach the industry-leading 2.5-inch capacity of 160 Gbytes.
- Nearly 50 percent more performance than systems with 4200-RPM drives
- 4200-like battery consumption lets users work longer.
- Robust design and high shock tolerance enable mobility in rugged notebook operating environments.
- 900 Gs of nonoperating shock make the drive ideal for notebook PCs and industrial applications.
- Serial ATA interface option offers blazing fast 1.5-Gbits/sec interface speed combined with NCQ for high performance.

KEY SPECIFICATIONS

- 5400 RPM spindle speed
- 40-, 60-, 80-, 120- and 160-Gbyte capacities
- 350 Gs operating shock and 900 Gs nonoperating shock
- ATA/100 or SATA/150 NCQ interface

“The market opportunities for these high-performance drives in notebook PCs also include requirements for higher capacities. Companies like Seagate that combine these capabilities with lower acoustic and power consumption levels will be well positioned in these growing segments to gain market share in the future.”

– John Buttress, IDC’s research manager for hard drives

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PRODUCT DESCRIPTION

Momentum 5400.3 is the first Seagate® product utilizing perpendicular recording technology. This innovative technology allows Seagate to deliver the industry’s highest capacity of 160 Gbytes in a single 2.5-inch disc drive. Perpendicular recording also enables a more reliable, faster performing drive. Using a thicker recording layer and standing the bits on end frees room on the disc, which lessens the chance of thermal decay. This higher thermal stability delivers increased performance in demanding high temperature and rugged operating environments.

THE SEAGATE ADVANTAGE

Seagate designed Momentum drives with the end customer in mind. With the best combination of performance and mobility, Momentum 5400.3 is ideal for mainstream notebook PCs. Additional features, such as Seagate QuietStep™ ramp load technology and a 5-year warranty for distribution, make Momentum 5400.3 the most obvious choice. These drives are also a good fit in certain non-PC applications, including external storage, printers/copiers, non-mission critical blade servers, and other storage applications that require robustness.

SPECIFICATIONS

Capacity (Gbytes)	40, 60, 80, 120, 160
Interface	Ultra ATA/100 or SATA/150 NCQ
Cache (Mbytes)	8
Average Seek (msec)	12.5
Spindle Speed (RPM)	5400
Discs/Heads	2/4 (160 Gbyte)
Bytes per Sector	512
Shock, Operating/Nonoperating (Gs)	900
Acoustics, Idle (bels)	>2.5 (single disc)

APPLICATIONS

- Mainstream notebooks
- Tablet PCs
- External 2.5-inch drives
- Printers and copiers

ADDITIONAL FEATURES

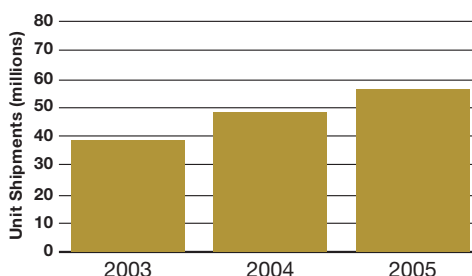
- QuietStep ramp load technology enables whisper-quiet load/unload acoustics
- Advanced manufacturing and latest technology for the most reliable storage solutions ever
- The industry’s most comprehensive compatibility and benchmark testing
- Assured, steady supply from the industry’s largest supplier of disc drives
- Seagate 5-year warranty for distribution demonstrates commitment to product reliability

MARKET OPPORTUNITY

Demand for drives going into notebook computers continues to grow exponentially. Two-disc capacity trends will continue to grow as more desktop users transition to notebooks. The notebook transition is driven by technology, as the performance gap between desktops and notebooks has closed—making it possible to run the same applications on a notebook that users would typically have run on a desktop.

Seagate Momentum 5400.2 is also well positioned for the whitebook segment, which is emerging as a new market in the distribution channel. A whitebook is essentially a “bare bones” notebook computer that allows system integrators to easily customize the memory, hard drive and CPU. It takes about 10 minutes to build and provides a simplified way for them to get into the notebook market.

2.5-Inch Notebook Unit Shipments



Source: IDC, February 2005

For more information, go to www.seagate.com

Storage Segments

Network Storage

Server Storage

High-Density Storage

Nearline Storage

Low-Cost Server

PC Commercial

PC Consumer

Notebook

Automotive

DVR

Gaming/Audio/Other

Government

Handheld

