

QUANTUM

Q2000

SERIES

INTELLIGENT DISK DRIVES

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T. Gardner Apr 2006

Quantum's Q200 Series™ is a family of intelligent hard disk drives designed to provide high performance mass storage in a cost-effective package. The three models in the series range from 53 to 160 megabytes of formatted capacity and share a similar disk drive architecture. They use the same heads, the same media and the same integrated controller design. Most important, all three models use the SCSI interface and support the same software commands utilizing the common command set.

Because the products are software compatible, Quantum has made it easier than ever to upgrade and enhance your system — both now and with future products. System upgrades no longer mean expensive hardware and software overhauls to accommodate higher data storage capacities.

Intelligence by design

Quantum's Q200 Series represents a major advancement in disk drive architecture. Quantum was the first to introduce high capacity disk drives with truly integrated controllers. We designed the drive and the controller electronics in tandem to ensure optimal functionality of your mass storage system. What's more, by designing the drive and controller in parallel, Quantum eliminates device level interface logic and improves throughput. The result is a mass storage subsystem fully designed, tested and built by Quantum.

Our innovative design eliminates the need to test and integrate drives and controllers separately, which saves time and money. And by integrating the controller into the drive itself, Quantum not only reduces the number of parts, but also more closely controls product quality. Higher process yields and consistent process control ensure greater reliability and lower costs, which translate into savings for you.

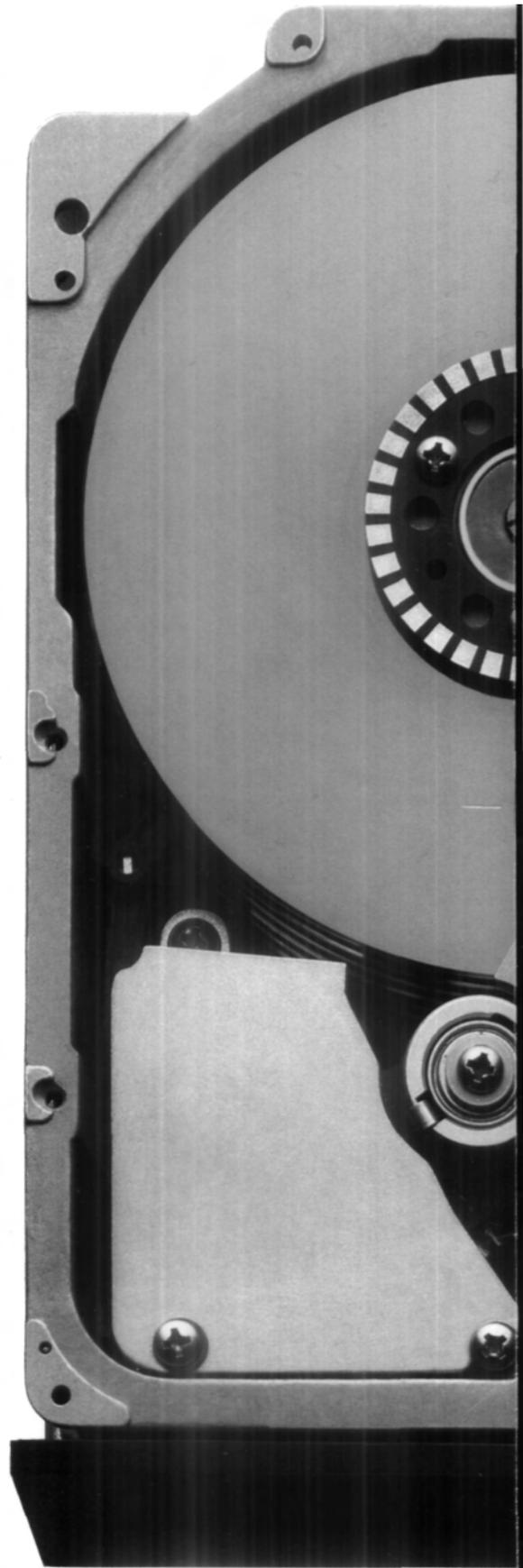
The Q200 Series' integrated controller also means this compact package can do more than ever before, handling routine tasks such as defect management, error correcting, and physical sector addressing, thereby freeing the host system for other activities. By handling more, Quantum drives allow you more flexibility to increase your system's capabilities.

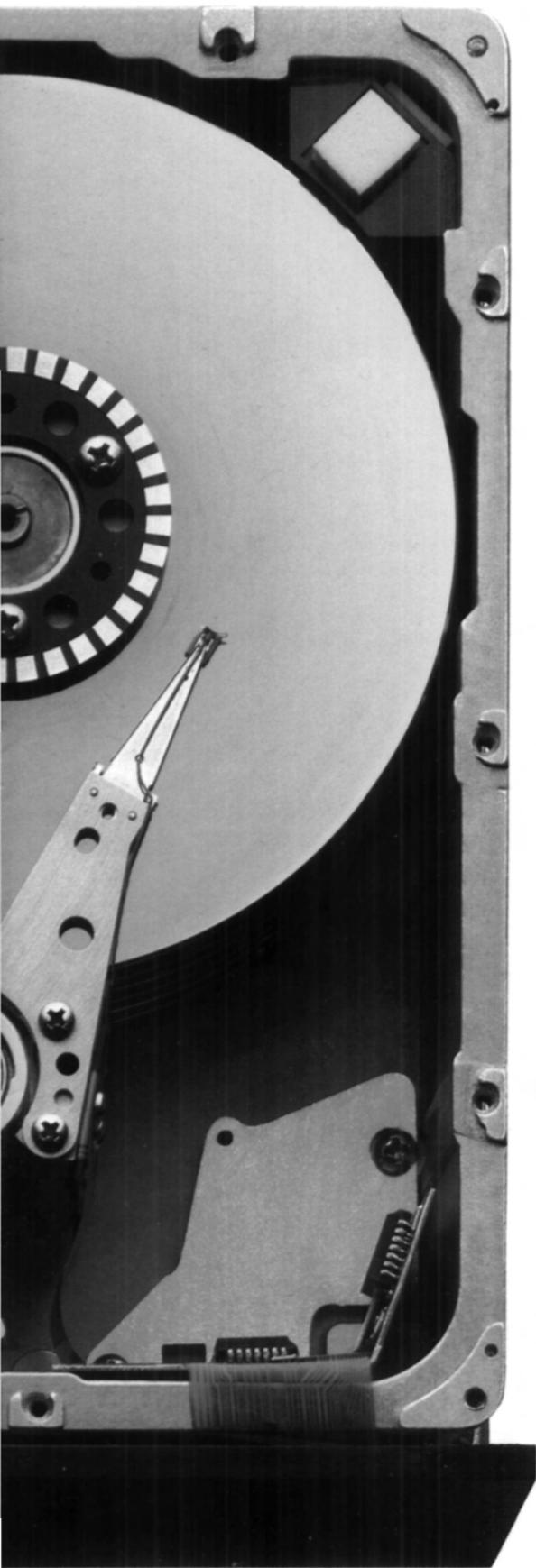
Innovative manufacturing

The Q200 Series offers exceptional quality and reliability largely due to Quantum's innovative manufacturing approach. Quantum believes that one of the best ways to reduce product cost is to design for manufacturability. For the Q200 Series, Quantum designed the products in conjunction with a new, semi automated manufacturing line. The process engineering team worked closely with the product design team from the beginning of the Q200 Series development. Reproducibility is the cornerstone of Quantum's manufacturing philosophy, and design-features that produce variability on the production line were avoided.

Our new custom-designed manufacturing line requires less than 10,000 square feet of space to produce 900 drives during an eight-hour shift — one drive every 30 seconds. This system nearly doubles the output of our previous process, and in just half the floor space with a third the manpower.

Recognizing that the lowest possible costs can be achieved only with exceptionally high yields, Quantum established a process yield goal of 100 percent. A computerized system of statistical process control detects and corrects problems before they can result in defective products, reducing the high cost of scrap, waste and rework. The exceptional quality of both design and manufacturing make the Q200 Series the most cost-effective mass storage devices available.





Proven quality and reliability

Quantum is committed to providing customers with reliable, quality products. The Q200 Series products have a mean time between failure (MTBF) of 25,000 operating hours. Our products' incoming acceptance rate with our customers is over 99 percent. Quantum has also established a ship-to-stock program with many of our key customers, which demonstrates their confidence in the consistent quality of our products.

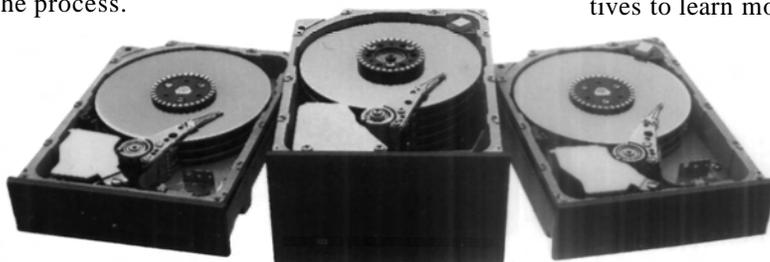
Quantum performs a series of tests to ensure that our products meet our strict standards for reliability and performance. This testing begins with a Design Verification Test prior to building the first prototypes. As initial production begins, Design Maturity Testing is performed to demonstrate that the products meet all functional, reliability and environmental specifications. At the same time, Process Maturity Testing is performed to demonstrate the reproducibility of the process.

Quantum has also established an Ongoing Reliability Testing program in which a statistical sample of drives from each week's production is tested for compliance with published specifications. This helps guarantee that our products continue to maintain consistent quality.

Quantum's quality extends beyond the product itself, to include the quality of service, such as technical support and repair services. At Quantum, we believe that through comprehensive testing programs and partnership programs with suppliers and customers we can continue to offer the most reliable products available.

Smart prices

Quantum has designed the Q200 Series to be the most cost-effective mass storage devices available. In addition to smart prices, our intelligent drives offer you savings throughout the life of the product. Contact one of our sales representatives to learn more.



Q250
53 MB FORMATTED
5 1/4-INCH, HALF HIGH

Q160
160 MB FORMATTED
5 1/4-INCH, FULL HIGH

Q280
80 MB FORMATTED
5 1/4-INCH, HALF HIGH

Q200 SERIES

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