

## Product Overview

# CHEETAH 15K.5

**Best price/performance, lowest cost of ownership disc drive**

**300, 146 and 73GB • 15K RPM • Ultra320 SCSI  
3 Gbit/sec SAS • 4 Gbit/sec FC**

### Key Features and Benefits

- Perpendicular recording is fundamentally superior, delivering 300GB capacity with 30 percent faster sequential performance and the highest reliability rating of any 3.5-inch drive in the industry.
- Enables higher performance with fewer drives, reducing supporting infrastructure, maintenance and space needs while boosting system reliability
- 30 percent more IOPS and over 20 percent faster response times than 3.5-inch 10K drives; first drive to break 100-Mbyte sustained transfer rate barrier
- Reduces RAID rebuild times while minimizing reliability risk exposure; nonrecoverable error rate has been improved by a factor of 10.

### Best-Fit Applications

All mainstream enterprise applications, such as:

- E-mail
- Business processing
- Transaction processing
- Decision support
- Storage Area Networks (SAN)
- Networked Attached Storage (NAS)
- Internet and e-commerce



# CHEETAH 15K.5

Best price/performance, lowest cost of ownership disc drive



## Product Description

The new Cheetah 15K.5 enterprise disc drive employs innovative perpendicular recording technology to set new standards for storage cost-effectiveness. While doubling available capacity to 300GB, the Cheetah 15K.5 also delivers 36 percent higher sequential performance. This enables enterprises to meet their throughput and capacity requirements with fewer drives, significantly reducing total cost of ownership (TCO). Seagate® designed the Cheetah 15K.5 for maximum reliability in demanding enterprise applications, including a nonrecoverable error rate that's been improved by a factor of 10. Cheetah 15K.5 incorporates such Seagate-exclusive features as IRAW (Idle Read After Write), enhanced ECC (Error Correction Code) and BMS (Background Media Scan) to safeguard data integrity in the most rigorous environments.

## The Seagate Advantage

- Fifth-generation Cheetah 15K is the fastest, highest capacity and most reliable ever; delivers lower TCO for a wide variety of enterprise applications.
- Cheetah 15K.5 employs perpendicular recording technology to deliver 300GB capacity with 30 percent faster sequential performance.

- Nonrecoverable error rate has been improved by a factor of 10, safeguarding data integrity and reducing risk exposure during RAID rebuilds.

## Enabling New Opportunities

- Cheetah 15K.5 drives employ perpendicular recording to enable systems with an unprecedented blend of storage performance, capacity and reliability.
- Cheetah 15K.5 drives offer lasting value, ensuring systems can keep up with growing performance and capacity needs over a longer period of time.
- Cheetah 15K drives have the highest field-proven reliability of any 3.5-inch drives in the world, and boost system reliability even further due to the need for fewer drives.

[www.seagate.com](http://www.seagate.com)

**1-800-732-4283 (1-800-SEAGATE)**

Specifications	
Capacity (GB)	300, 146, 73
Seek Time, Read/Write (average, msec)	3.5/4.0
Transfer Rate, Sustained (Mbytes/sec)	Up to 125
Reliability Rating at Full 24x7 Operation (AFR)	0.62%
Nonrecoverable Read Errors per Bits Read	1 sector per 10 <sup>16</sup>
Power Consumption SCSI (W, idle)	12.5 (300GB), 9.6 (146GB), 8.1 (73GB)
Interface	Ultra320 SCSI, 3 Gbit/sec Serial Attached SCSI (SAS), 4 Gbit/sec Fibre Channel
Warranty (years)	5

AMERICAS Seagate Technology LLC 920 Disc Drive, Scotts Valley, California 95066, United States, 831-438-6550  
ASIA/PACIFIC Seagate Technology International Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888  
EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 130-136, rue de Sully, 92773 Boulogne-Billancourt Cedex, France, 33 1-4186 10 00

Copyright © 2006 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate, Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC. Cheetah is either a trademark or registered trademark of Seagate Technology LLC. Other product names are either trademarks or registered trademarks of their owners. One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity. Accessible capacity may vary depending on operating environment and formatting. Seagate reserves the right to change, without notice, product offerings or specifications. Publication Number: PO-0030, June 2006