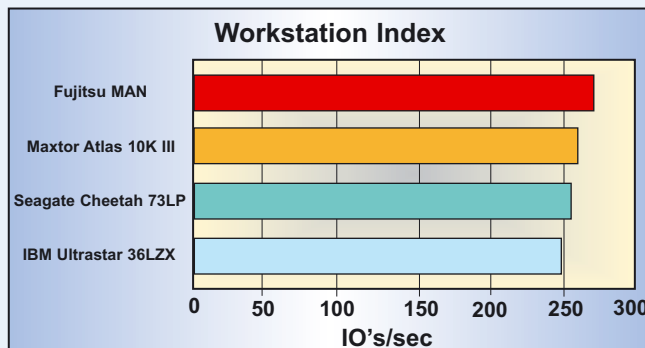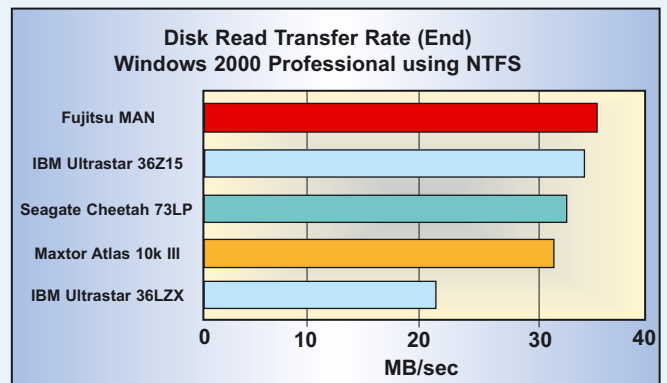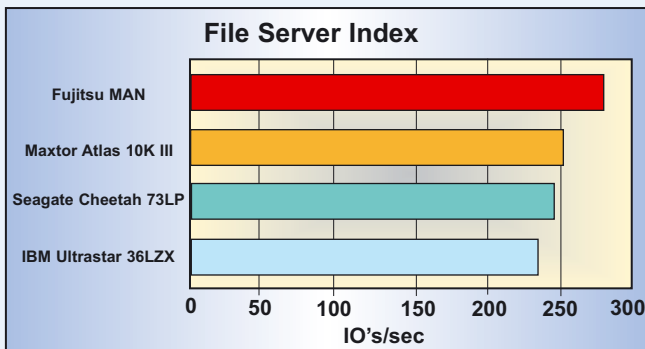# FUJITSU

10K RPM 'MAN' Series

Introduction

The MAN s specified seek time is ambitious at 4.5 ms ... the lowest claimed for a 10k RPM drive. **The MAN goes beyond the Cheetah 73LP with a roomy, 8 meg buffer.**

The MAN targets the highest level of requirements, servicing high-end workstations, transaction servers, AV editing, etc. A representative enterprise-class 5 year warranty backs the drive.
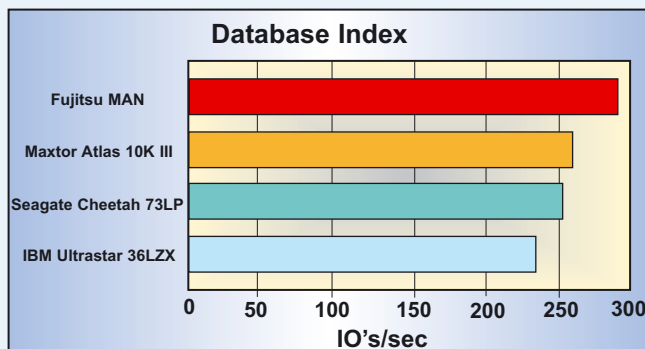
IOMeter Performance

Windows 2000 Professional Unpartitioned

File Server Index

Fujitsu MAN
Maxtor Atlas 10K III
Seagate Cheetah 73LP
IBM Ultrastar 36LZX

0 50 100 150 200 250 300
IO's/sec

Workstation Index

Fujitsu MAN
Maxtor Atlas 10K III
Seagate Cheetah 73LP
IBM Ultrastar 36LZX

0 50 100 150 200 250 300
IO's/sec

Database Index

Fujitsu MAN
Maxtor Atlas 10K III
Seagate Cheetah 73LP
IBM Ultrastar 36LZX

0 50 100 150 200 250 300
IO's/sec

It is in IOMeter that the MAN3367 gets to flex its muscles. The drive s File Server Index **bests the Atlas10k III by over 9%.** The margin is much narrower in the Workstation Index...nonetheless, the Fujitsu drive stays on top by about 3%. The MAN s lead grows back to 9% in the Database Index. **With the Cheetah 73LP trailing** the Atlas in all three IOMeter categories, it does not even enter the equation.

WB99/Win2k Low-Level Measurements

Disk Read Transfer Rate (End)
Windows 2000 Professional using NTFS

Fujitsu MAN
IBM Ultrastar 36Z15
Seagate Cheetah 73LP
Maxtor Atlas 10k III
IBM Ultrastar 36LZX

0 10 20 30 40
MB/sec

The MAN3367 s access time comes in at 8.1 milliseconds according to WinBench 99. Such a score **bests the Seagate Cheetah 73LP's time** by 0.4 ms.

Outer zone transfer rates weigh in at 55.4MB/sec ... while **leading the Atlas 10k III** by roughly the same margin. Inner-zone rates come in higher than the competition with a score of 35.8MB/sec.

Conclusion

Fujitsu's drives have long been famous for their low levels of heat and noise. The MAN is no exception.

Overall the MAN scores in delivering performance where it matters.

Solid scores in IOMeter File Server and Database indices put it ahead of the competition from Maxtor and Seagate.

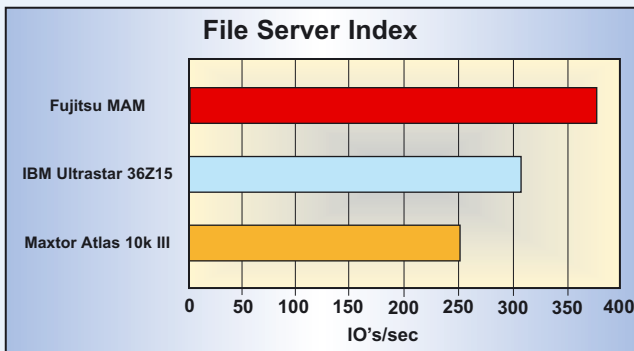# FUJITSU

THE POSSIBILITIES ARE INFINITE

FUJITSU
15K RPM 'MAM' Series

Introduction

Fujitsu s MAM series goes **head-to-head with the Cheetah X15-36LP,** directly challenging the hegemony carved out by Seagate s newest dynasty. In addition to its 15,000 RPM spindle speed, the MAM3367 features a specified seek time of 3.5 milliseconds, the lowest yet for a 36GB 15k RPM drive. It packs 9 gigs per platter**...exceeding Big Blue's by 50%.** Fujitsu equips the MAM with 8 megabytes of buffer**...doubling IBM."**

IOMeter Performance

Windows 2000 Professional Unpartitioned

File Server Index

Fujitsu MAM	
IBM Ultrastar 36Z15	
Maxtor Atlas 10k III	

0   50   100   150   200   250   300   350   400
IO's/sec

... the MAM pulls up to the X15-36LP. A File Server Index of 357.44 **matches the score turned in by Seagate's drive."**

WB99/Win2k Low-Level Measurements

With a WinBench 99 measured access time of 6.0 milliseconds, the MAM virtually **matches the X15-36LP."**

The Fujitsu inner-zone rates come in at 44.8MB/sec, virtually **the same as Seagate's drive."**

Conclusion

"The MAM is a decent first effort (superior to the Ultrastar 36Z15 overall). The MAM turns in the highest IOMeter file server index recorded to date. The MAM also, unlike the Ultrastar 36Z15, matches Seagate spec-for-spec...no compromises were made in areal density or buffer size."

PRODUCT MATRIX

Model	Capacity	RPM	Interface
MAN3184 MC/MP	18.4GB	10K	Ultra160 68 Pin and SCA-20 80 Pin
MAN3367 MC/MP/FC	36.7GB	10K	Ultra160 68 Pin and SCA-2 80 Pin/FCAL-2
MAN3735 MC/MP/FC	73.5GB	10K	Ultra160 68 Pin and SCA-2 80 Pin/FCAL-2
MAM3184 MC/MP	18.4GB	15K	Ultra160 68 Pin and SCA-2 80 Pin
MAM3367 MC/MP	36.7GB	15K	Ultra160 68 Pin and SCA-2 80 Pin

FUJITSU EUROPE LIMITED
Hayes Park Central,
Hayes End Road,
Hayes, Middlesex,
UB4 8FE

Telephone: +44 (0) 208 573 4444
Fax: +44 (0) 208 573 2643

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