



Using Track-Following Servo Technology in Fujitsu Tape Drives

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Fujitsu Computer Products of America
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Fujitsu Limited

- **World's second largest computer company**
- **More than \$36 billion in sales**
- **Employs 162,000 people**
- **Major 1/2-inch tape drive manufacturer**

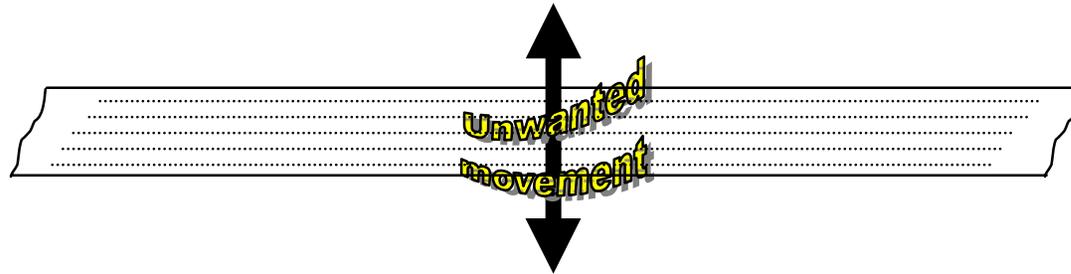


Tape Technology Improvements

- Higher bit density
 - Higher coercivity media
 - Improved modulation codes
 - "Predictive" signal decoding
- Higher track density
 - Track-following



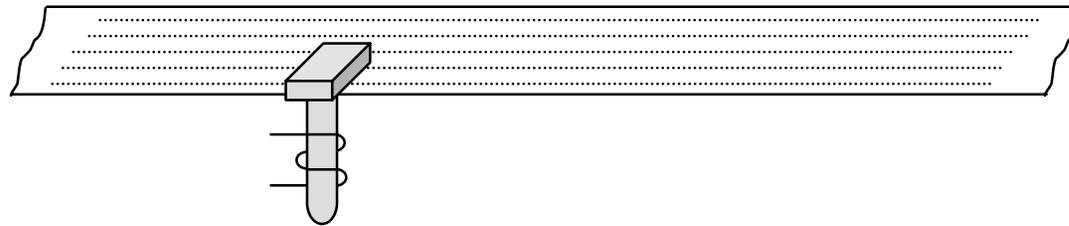
Data Recovery



- Reliable data recovery options
 - Write wide, read narrow
 - Move head to follow track



Track-following Technology



- Track-following procedure:
 - Locate pre-formatted servo reference track
 - Head servo follows the reference tracks
 - Write or read data biased from reference track



Fujitsu Diana4

- IBM Magstar™ compatible format
- Specifications

Tape	Capacity	Transfer rate
Short length IBM mode	10GB	13.5 MB/sec
Long length IBM mode	20GB	13.5 MB/sec
Short length Fujitsu mode	15GB	18 MB/sec
Long length Fujitsu mode	30GB	18 MB/sec

Native mode