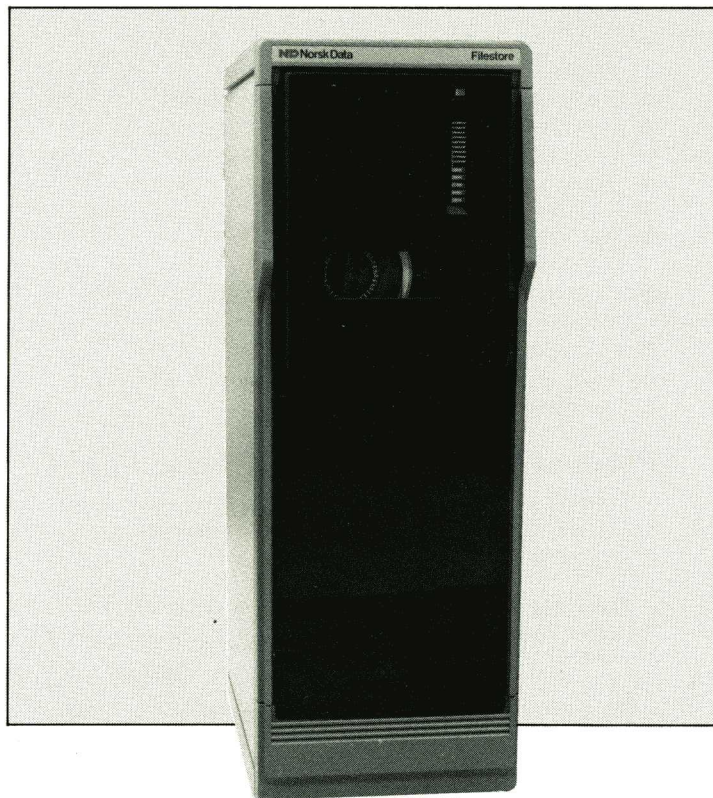


# MAGTAPE DRIVE 1600-6250 BPI MAGTAPE CONTROLLER

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ND 110017/ND 105600



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## Introduction

The ND 110017, Magnetic Tape Drive and the ND 105600 Magnetic Tape Controller constitute the latest solution offered by ND to provide a fast and secure backup solution for ND's high-capacity disks. The formatter and drive are delivered by Storage Technology Corporation.

The magtape is offered with a new FILESTORE configuration. As a complete backup solution, the magtape may be installed together with one or two fixed-disk drives.

## Features

- Up to four Tape Drives per Controller.
- Dual-speed 50 ips Start/Stop and 100 ips Streaming.
- ANSI Standard 1600 bpi/6250 bpi Formats.
- Convenient Auto Threading.
- Long-life, Hard-coated Read/Write Head.
- Manual and Software Density Select Interface.
- File Protect.
- Compliance to IEC 380/VDE 0806/8.81 (50 Hz models).
- Compliance to FCC Part 15, Subpart J for Class A equipment, and to VDE 0871.
- Compliance to NC55 Acoustics.
- Field Service Panel with Alpha/Numeric Display.
- Resident Diagnostics.

## Product description

The ND 110017 Magtape comes complete with tape transport, formatter, power supply and resident micro-diagnostics in a single self-contained unit.

The unit offers both 50 ips start/stop capability and a 100 ips streaming mode, and provides ANSI-compatible 1600 and 6250 bpi recording formats.

New technology is used extensively, featuring a new, reliable mechanical tape-buffering system that is capable of handling the stringent 6250 bpi recording and, at the same time, provides the convenience of automatic tape threading.

The tape transport design eliminates the need for costly vacuum columns and is quiet enough for the office environment. The capstan and reel servo system take advantage of microprocessor control and LSI electronics. Digital tachometers provide necessary feedback to avoid the need for adjustments. GCR recording technology permits high-capacity disk dump/restore applications. A 2400 foot, 10.5-inch reel of magnetic tape can hold up to 180 megabytes of data, and a 3600 foot reel up to 260 megabytes — three times as much as phase recording (PE). The instantaneous transfer rate at 50 ips is up to 312.5 kilobytes per second, and 625 kilobytes at 100 ips.

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In addition to capacity and throughput, the 6250 bpi offers a considerable improvement in read/write reliability with 1 and 2-track on-the-fly error detection and correction.

Serviceability and maintainability are provided through extensive resident microdiagnostics capable of isolating failures to the most probable field-replaceable unit. Routine maintenance has been reduced to a minimum — scheduled cleaning. All electrical and periodic mechanical adjustments have been eliminated.

## Specifications

### Tape Format:

ANSI Compatible, 9 track, 1600 bpi (PE) or 6250 bpi (GCR).

### Tape Motion:

50 ips Start/Stop and 100 ips Streaming.

### Magnetic Tape Media:

.5 inch Magnetic Tape (ANSI x3.54 - 1976)  
7.0, 8.5 and 10.5 inch open reels.

Rewind Time, 2400 foot reel is 2.5 minutes.

### Power requirements:

60 Hz, 120 VAC + 10% / - 15%  
Input current, 4 A, (250 Watts)

50 Hz, 220/240 VAC + 10% / - 15% Input current,  
2 A (except 100 VAC = 4 A), (250 Watts)

## Physical characteristics

Height: 622.3 mm  
Depth: 406.4 mm  
Width: 482.6 mm  
Weight: 57 kg

## Environmental characteristics

Operating temperature: 16 C° to 30 C°  
Non-operating temperature: -40 C° to 70 C°  
NOTE: Max. temperature change,  
8 C°/Hour.  
Operating humidity: 20% to 80% Non-condensing  
Storage humidity: 10% to 90% Non-condensing  
Shipping: 0 to 1.830 m.  
Non-condensing  
Operating altitude: 0 to 3.050 m with manual  
threading.  
Shipping altitude: 0 to 15.240 m.

## Documentation

ND 110017 Magtape 50/100 ips, 6250 bpi User Guide.

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