

POTTER

POTTER DD4311 DISK DRIVE



INTRODUCTION

The new Potter DD4311 Disk Drive is a low-cost random access memory, plug-to-plug interchangeable with the IBM 2311 Disk Drive. It is completely program and interface compatible with the 2311. The Potter unit employs completely field-proven design techniques, and will provide the user with a highly reliable direct replacement for the IBM 2311.

FEATURES

- Low cost
- Complete interchangeability with the IBM 2311
- Field-proven, hydraulic head actuator
- No stray electro-magnetic fields
- Minimum number of electrical adjustments
- Track-to-track access time of 25ms
- Uses existing programs



HEAD ACTUATOR

The DD4311 features a highly reliable hydraulic head actuator. This proven, dependable system provides consistent, accurate, head positioning. There are no stray electromagnetic fields such as may result from electromagnetic-type head actuators. The use of hydraulic head actuators also reduces the number of electrical adjustments.

DATA AND INTERFACE ELECTRONICS

The Potter DD4311 data electronics and interface electronics feature silicon devices throughout. Plug-in circuit modules facilitate maintenance. The interface electronics are completely plug-to-plug compatible with the IBM 2311. Third generation techniques ensure state-of-the-art design and performance — wire wrapping and integrated circuits are used throughout.

OPERATOR AND CONTROL PANEL

The operator control panel is identical to that of the IBM 2311 with respect to layout and function of all controls and indicators. An elapsed time meter is included, as in the IBM 2311, to record operational use time.

OTHER CONFIGURATIONS

The Disk Drive is available for high volume requirements in other interface configurations. In such applications, the same mechanical drive and data electronics are used; only the interface electronics are changed.



Loading of the 6-disk pack.

Potter's patented ADLOGIC coding can be used in these applications to effect an increase of 33 $\frac{1}{3}$ % in packing density using the same disk packs (i.e., IBM 1316). This dramatic increase is accomplished by the use of Potter's special data coding techniques.

SPECIFICATIONS

Storage Capacity	7.25 million bytes
Access Times	
Adjacent Tracks	25ms
Average Overall	75ms
Maximum Overall	135ms
Disk Speed	2400 rpm \pm 2%
Latency Time	
Maximum	25ms
Average	12.5ms
No. of Cylinders	200 plus 3 spares
Data Transfer Rate	156,000 8-bit bytes per second
Data Density	
Outer Track	765 bpi
Inner Track	1105 bpi



Indicators and controls are similar to preceding equipment in the field.

SPECIFICATIONS

Recording Mode	Double Frequency
Written Track Width	0.008 inch
Track Width After Tunnel Erase	0.005 inch
Disk Pack	IBM 1316 or equivalent
Primary Power	208/230 VAC \pm 10%, 50 or 60 Hz \pm 1%, 3 phase
Environment (operating)	
Temperature	60° to 90° F.
Humidity	8% to 80% RH
Weight (maximum)	400 lbs.
Dimensions	24"D x 30"W x 40"H

POTTER MAINTENANCE ENGINEERING

Potter Customer Service Centers are at strategic locations throughout the United States.

Staffed by highly-trained field representatives, these service centers are equipped to effect on-site installation of equipment and to perform quality repair and maintenance.

For customers who prefer to provide their own equipment support, Potter has established

standard instruction courses to train personnel. Training may take place either at Potter or in the field.

The Potter field service and logistics program is one of the finest in the EDP equipment industry. With reliable, quality-engineered equipment, supported by comprehensive field service, Potter guarantees satisfaction.

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Information subject to change without notice.



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