CALCOMP

TRIDENT T-302 DISK DRIVE

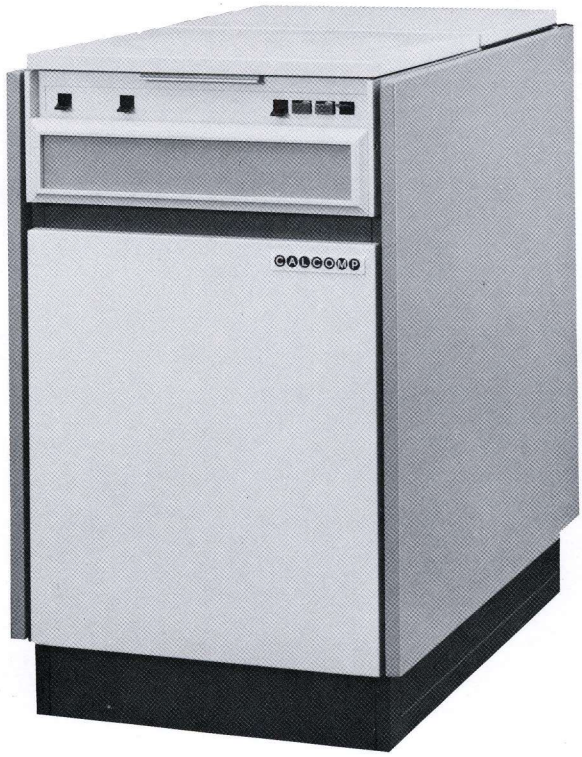
CalComp's Model T-302 member of the TRIDENT family is essentially a T-300 Disk Drive using a differential type interface and address plug selection. The T-302 drive offers all of the TRIDENT's advanced and economical features for the OEM designer who prefers a differential interface over the standard TRIDENT DTL/TTL interface.

High Performance Contamination Control System
Air filters assure that clean air is circulated within a fully closed air system to cleanse and cool critical moving parts, which include the pack, heads and carriage & way assembly.

Designed for Easy Maintenance
All subassemblies are modular for ease of maintenance and are conveniently accessible for service without the necessity of major disassembly. Electronic components are functionally organized on pluggable printed circuit modules. An optional exerciser/monitor can be used to test drive operation off-line without unplugging system cabling. The exerciser can also monitor drive performance on-line to the CPU.

Proven Design Features
These features include 3330 technology using track following servo design and standard 3336 media on a 12-high removable disk pack. Sector lengths are jumper selected in two type increments. Rigid one-piece deck plate casting controls instability and mechanical resonance. The high performance phase-lock data separator is a standard feature which is an integral part of the disk drive.

In addition to all of these significant design features, CalComp as the largest independent disk drive manufacturer provides a full range of support services.



T-302 TRIDENT DISK DRIVE

T-302 DISK DRIVE
SPECIFICATIONS AND CHARACTERISTICS

CAPACITY
312.1 megabytes

BYTES/TRACK
20160

BYTES/CYLINDER
383,040

CYLINDERS/PACK
815

BIT DENSITY
6060 bpi

TRACK DENSITY
370 tpi

TRANSFER RATE
1209 kilobytes per second

ROTATIONAL SPEED
3600 rpm

AVERAGE LATENCY TIME
8.3 ms

ACCESS TIME
Track to Track: 6 milliseconds
Average: 30 milliseconds
Maximum: 55 milliseconds

START/STOP TIME
Start: 20 seconds (nominal)
Stop: 20 seconds (nominal)

RECORDING SURFACES
19 data and 1 servo surface

OPERATING ENVIRONMENT
Temperature: 60° to 100°F (16° to 38°C)
Temperature Gradient: 20°F per hour (11°C per hour)
Humidity: 10% to 80% (no condensation)

ERROR RATE
Recoverable: 1 error in 10^{10} bits
Non-recoverable: 1 error in 10^{13} bits
Positioning: 1 error in 10^{6} seeks

RELIABILITY
MTBF: Designed to exceed 4000 hours
MTTR: Designed to be less than 1 hour
Service Life: 5 years or 45,000 hours

CONTROLS & INDICATORS
Ready Indicator/Logical Address Plug
Fault Indicator
Start/Stop Switch
Degate Switch
Read Only Switch
Interface Enable (Dual Access option only)

DIMENSIONS
19.5" wide x 36" high x 33" deep
(495 mm wide x 914 mm high x 828 mm deep)

WEIGHT
480 pounds (218 kg)

POWER REQUIREMENTS
208/240 Vac + 10%, − 15%
60 Hz ±0.5 Hz, 50 Hz ±1 Hz
5 amps-running, 25 amps-starting (10 seconds)

HEAT DISSIPATION
3500 BTU/hour (832 kilocalories/hour)

OTHER FEATURES
Variable Record Length
NRZ Data Interface
Off-Line Exerciser (Optional)
Dual Access (Optional)

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