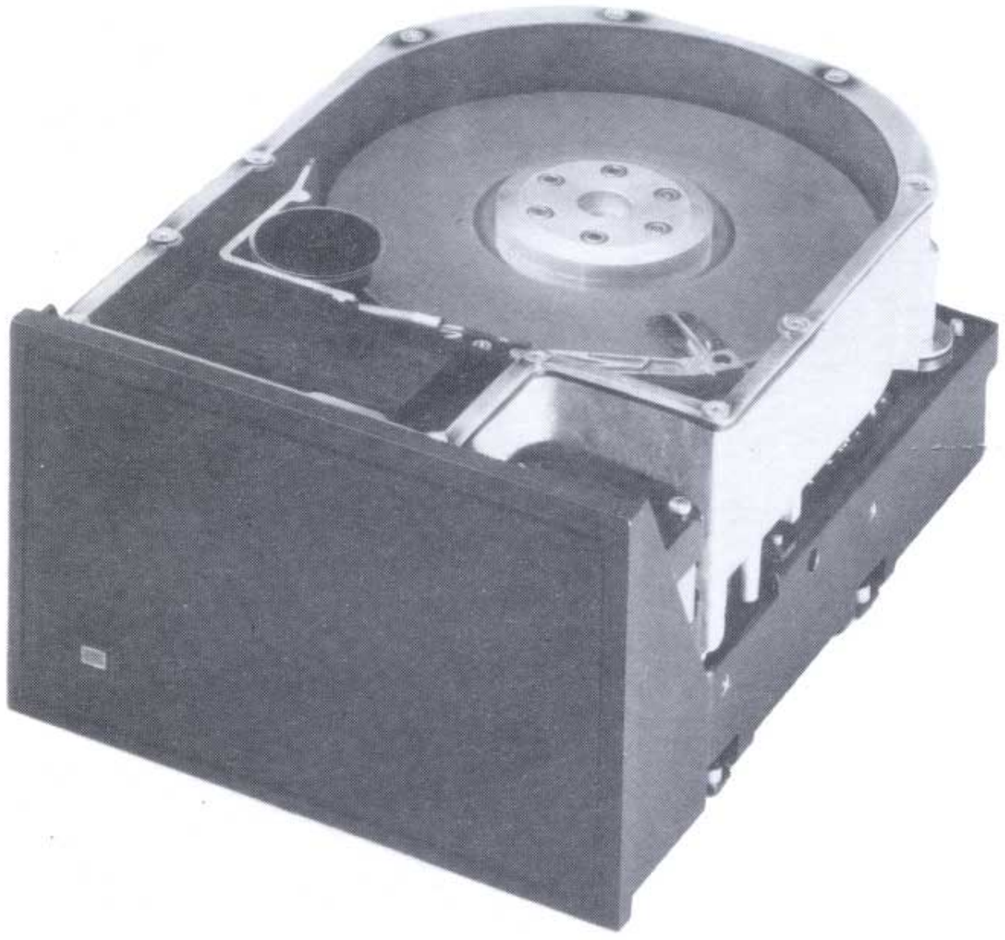
Tandon Model TM600 Mini-Winchester Disk Drives



Tandon Corporation's TM600 family of mini-Winchesters offer exceptional storage capabilities in a 5¼" high-speed, random access disk drive. Available in two- and three-platter models, the TM600 series provides unformatted storage capacities of up to an incredible 14.3 bytes of information. The TM600 ensures maximum data and product reliability at a remarkably low cost due to Tandon's internal head technology and quality-controlled high-volume manufacturing.

A Wide Range of Storage Capacities Four capacities from 6.4 to 14.3M bytes are available in this family of disk drives. The three-platter model, TM603E, offers a storage capacity of 14.3M bytes, unformatted, with 230 cylinders, and a recording density of 9625 FRPI. The TM602E offers similar capabilities in a two-platter configuration. Model 602E is capable of storing 9.6M bytes of unformatted information.

Tandon's unextended versions, TM602 and TM603 rigid disk drives provide excellent storage capacities at low cost. The TM602 is the 153-cylinder, two-platter model that has 6.4M bytes of storage capacity, and a recording density of 7690 flux reversals per inch. The TM603 delivers a high 9.6M bytes of storage with three platters. Up to four Tandon TM600s can be daisy chained on a single bus. With model TM603E, this provides a capacity of up to 57 megabytes of on-line storage in a single system.

Interface Flexibility Tandon offers two industry-standard interfaces. The S version is compatible with other industry drives. The T version is compatible with Tandon's 5¼" floppy TM100 series, where — except for data separation — the TM600 series can run in a daisy chain with the TM100-4, a double-sided, double density, 96 TPI floppy drive, capable of one megabyte of data. This permits up to 14.3M bytes, unformatted, fixed disk in daisy chain with 1M byte, unformatted, removable floppy disk capacity.

Increased Throughput Tandon's TM600 mini-Winchesters have a track-to-track access time of only 3 milliseconds. That's faster than any other mini-Winchester on the market. The average access time is only 153 milliseconds, including head settling time, and 210 milliseconds in the extended cylinder version.

Proven Reliability Tandon's family of miniperipherals have been designed for total reliability, as demonstrated by more than 400,000 production floppy disk drives in operation, day-after-day. Every Tandon disk drive design begins with the head itself, ensuring dependability.

Functional Characteristics The TM600 mini-Winchester disk drive consists of read/write and control electronics, a drive mechanism, a read/write head, and a precision, split band track positioning mechanism. These elements perform three functions: (1) interpret and generate control signals, (2) move read/write head to correct position, and (3) read/write data. The electronics are package on two circuit boards that contain logic and read/write circuitry, and motor control.

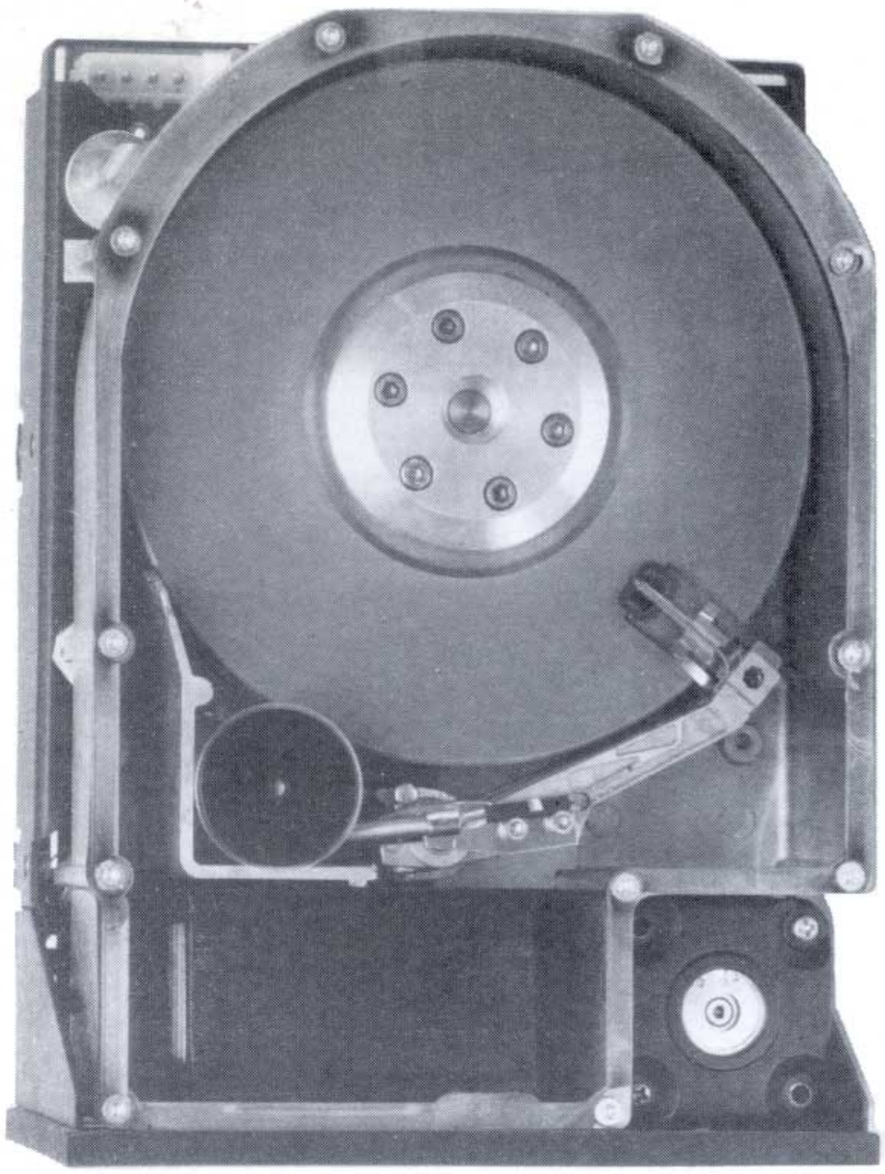
Drive Mechanism The direct drive motor is a brushless D.C. motor, rotating the spindle at 3600 RPM, yielding an average latency of 8.3 milliseconds.

Application Flexibility Typical applications for the Tandon TM600 drives include word processing systems, entry-level microprocessor systems, intelligent calculators, program storage, and small business computer systems. The TM600 series is an exceptional choice for any application in which low-cost, random access data storage is required.

Tandon CORPORATION

20320 PRAIRIE STREET
CHATSWORTH, CA 91311

TELEPHONE (213) 993-6644
TWX 910 493 5965



MODEL NUMBERS:	TM602	TM603	TM602E	TM603E
Disks/Platters	2	3	2	3
Heads/Recording Surfaces	4	6	4	6
TPI	254	254	254	254
Cylinders	153	153	230	230
RPM	3600	3600	3600	3600
Unformatted Recording Capacity	6.4 MBytes	9.6 MBytes	9.6MBytes	14.3 MBytes
Data Transfer Rate	5MBits/sec.	5MBits/sec.	5MBits/sec.	5MBits/sec.
Recording Density (Flux Reversals Per Inch)	7690	7690	9625	9625
Tracks	612	918	920	1380
Access Times				
Track-To-Track	3ms	3ms	3ms	3ms
Average Access Time	153ms	153ms	210ms	210ms
Head Settling Time	15ms	15ms	15ms	15ms
Average Latency	8.3ms	8.3ms	8.3ms	8.3ms
Mechanical Dimensions (excluding front panel)				
Height	3.25 in.	3.25 in.	3.25 in.	3.25 in.
Width	5.75 in.	5.75 in.	5.75 in.	5.75 in.
Length	8.00 in.	8.00 in.	8.00 in.	8.00 in.
Error Rates				
Soft Read	1 in 10^{10} bits	1 in 10^{10} bits	1 in 10^{10} bits	1 in 10^{10} bits
Hard Read	1 in 10^{12} bits	1 in 10^{12} bits	1 in 10^{12} bits	1 in 10^{12} bits
+12V D.C. Power	+12V ±5%, with 50 mV max. Periodic and Random Dev.		1.5 amps typical, 5 amps motor start up	
+ 5V D.C. Power	+ 5V ±5%, with 50 mV max. Periodic and Random Dev.		1.0 amps typical	
Environmental Specifications				
Ambient Temperature:	Operating ..... 41°F to 115°F (5°C to 46°C)			
	Nonoperating ..... -40°F to 140°F (-40°C to 60°C)			
Relative Humidity:	8% to 80%			
Wet Bulb Temperature:	78.8°F (26°C) without condensation.			
Reliability				
MTBF	11,000 power-on hours			

Specifications subject to change without notice.

Tandon

U.S. Sales Offices:
Sea Girt, NJ (201) 449-7720
Dallas, TX (214) 423-6260
Los Angeles, CA (213) 993-6644
Orange County, CA (714) 675-2928
Wakefield, MA (617) 245-4482
Chicago, IL (312) 530-7401

International Representatives:

HAL COMPUTERS
133 Woodham Lane
New Haw, Weybridge
Surrey KT 153NJ
England
Phone: 932 48346

TECHNOLOGY RESOURCES SA
27-29 Rue Des Poissoniers
92200 Neuilly-Sur-Seine
France
Phone: 747-4717

DELTA DATA SYSTEMS BENELUX SA
Rue de Geneve 10
Post Box 13
1140 Brussels, Belgium
Phone: 216-2498

COMPREL
20092 Cinsello B.
V. Le Romagna, 1
Milan,
Italy
Phone: (02) 612 0641

TECHNOLOGY RESOURCES AG
Bubenbergplatz 10
CH-3011 Bern,
Switzerland
Phone: 031 22 39 73

TANDON GmbH
Eichenstrasse 59
D-6230 Frankfurt/Main 83
West Germany
Phone: 0611-39 20 81
Telex: 0411547

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