

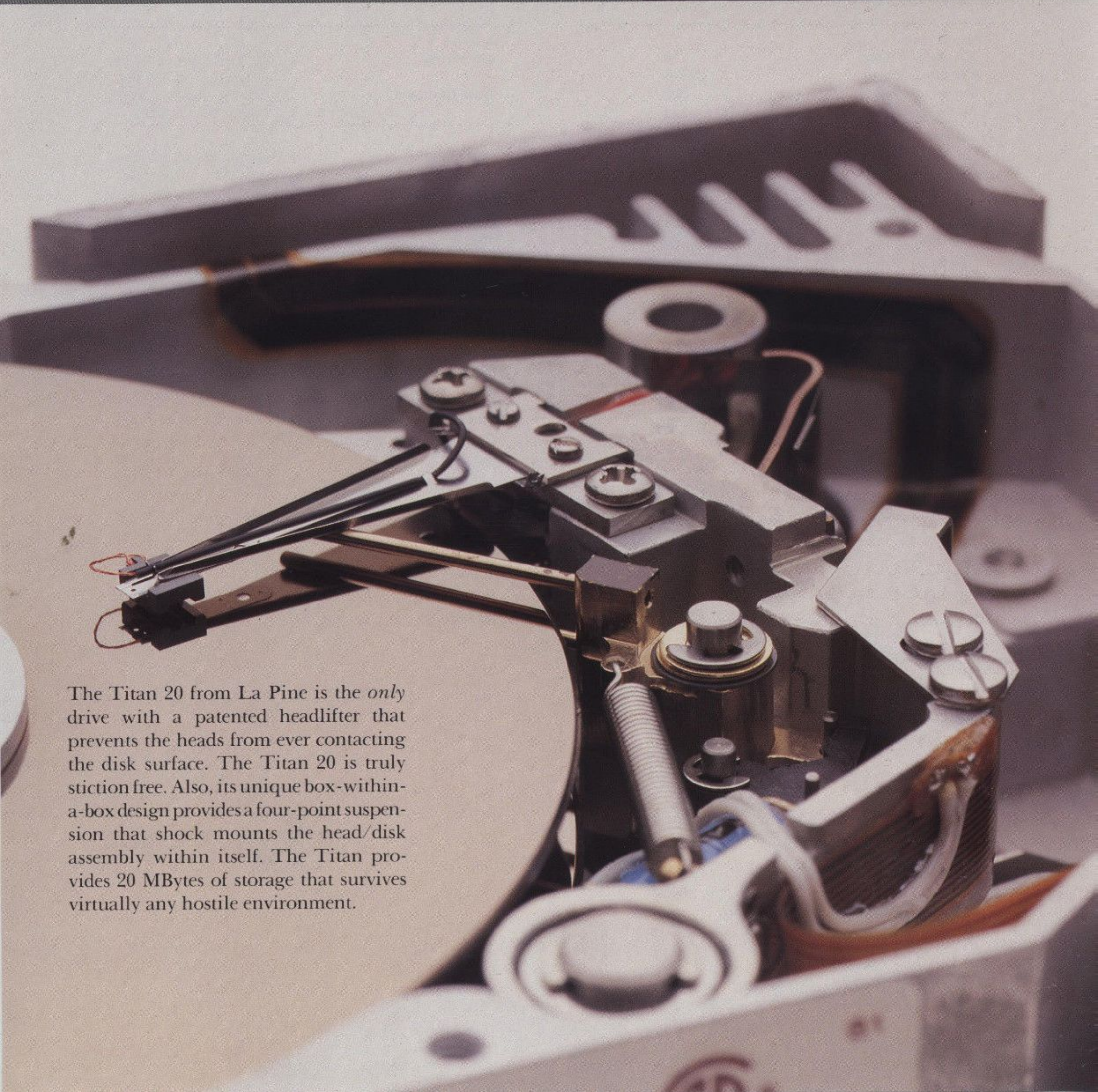


TITAN 20

The ruggedized 3.5-in. Winchester disk drive that works where it's needed.



The Titan 20 from La Pine is the *only* drive with a patented headlifter that prevents the heads from ever contacting the disk surface. The Titan 20 is truly stiction free. Also, its unique box-within-a-box design provides a four-point suspension that shock mounts the head/disk assembly within itself. The Titan provides 20 MBytes of storage that survives virtually any hostile environment.



TITAN 20

20-Mbyte 3.5" WINCHESTER DISK DRIVE



SPECIFICATIONS Model No. LT200

Capacity (formatted)	
Per drive, Mbytes	20
Per track, bytes	10,416
Per sector, bytes	256
Sectors per track	32
Interface	ST412/506
Transfer Rate, Mbits/s	5
Access Times, ms†	
Track-to-track	15
Average	65
Maximum	130
†Ramp mode, incl. head settling time; measurements taken after issuance of last step pulse from controller.	
Average Latency, ms	8.33
Recording Density, BPI max.	12,268
Track Density, TPI max.	835
Rotational Speed, rpm	3,600 ± 1%
Disks	2
Recording Surfaces	4
Heads	4
Data Cylinders	
Active	612
Spare	4
Noise, dBA max.	40
Error Rates	
Soft read, bits	1 per 10 ¹⁰
Hard read, bits (16 tries)	1 per 10 ¹²
Seek	1 per 5 x 10 ⁶
Reliability	
MTBF, hours	35,000
MTTR, minutes	20
Preventive maintenance req'd.	none
Service life, years	5

Vibration	
Operating	0.014 in. displ., 5-46 Hz; 1.5g accel., 46-500 Hz
Non-Operating	0.293 in. displ., 5-20 Hz; 6g accel., 20-500 Hz
Shock	
Operating	6g peak accel., 10-ms duration, two per second max.
Non-Operating	60g peak accel., 10-ms duration, six per axis max.
Shock and Vibration (external isolation) Combined specification is custom designed to meet specific application needs.	
Temperature	
Operating	+5° to +55°C
Non-Operating	-40° to +70°C
Relative Humidity	
Operating	10% to 90% w/o condensation
Non-Operating	5% to 90% w/o condensation
Power	
	+5 Vdc ± 5% at 0.65 A, typ. +12 Vdc ± 5% at 0.85 A, typ. Consumption, 13 W avg. Motor start, 1.9 A typ.
Dimensions*	
Inches	1.63 x 4.00 x 5.75 HWD
Centimeters	4.13 x 10.2 x 14.6 HWD
*Available in 5/8 in. full- or half-height package.	
Weight	
Pounds	2
Kilograms	0.9

Specifications subject to change without notice.
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