FUJIFILM
I&I – Imaging & Information

DAT72

4mm Tape Width Data Cartridge

Newly evolved ATOMM technology produces a new generation of compact, high-capacity data cartridges

DDS data cartridges to meet every data storage need

DDS4

DDS3

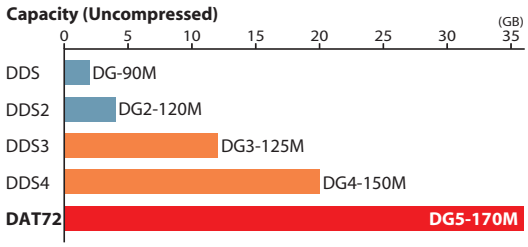
DDS2

DDS (90M, 60M)

DAT72 Data Cartridge

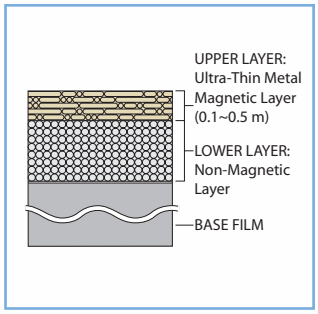
Fujifilm ATOMM technology: the key to high-density, high-output, high-reliability DAT72 data cartridges

DDS has become the world standard for storing and backing up computer data on tape, and now you can enjoy even higher capacity, higher output, and higher reliability than ever before. The ATOMM technology used to achieve reliable, high-density recording on compact Fujifilm DDS3 and DDS4 data cartridges has evolved, and the result is a new generation of DAT72-compliant, metal-coated DG5-170M tapes with 36GB capacity (72GB with 2:1 compression) and high reliability.



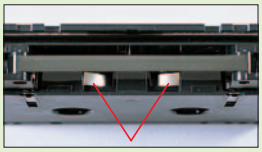
ATOMM — Fujifilm's proprietary ultra-thin metal coating technology

Consistently high output requires the use of an extremely dense, ultra-thin magnetic layer. Fujifilm ATOMM (Advanced Super Thin Layer & High Output Metal Media) technology meets this technical challenge by simultaneously applying a lower non-magnetic layer and an upper ultra-thin metal magnetic layer with a thickness of only 0.1~0.5m. In addition, the non-magnetic lower layer also serves as a reservoir for lubricant to ensure high reliability. It is this remarkable two-layer coating process makes it possible for ATOMM technology to offer both high-density recording and high reliability.



S4 Slider Springs

A strengthened new S4 slider spring mechanism (Symmetric Slider Spring Structure) ensures smoother spring action for improved reliability under heavy use.

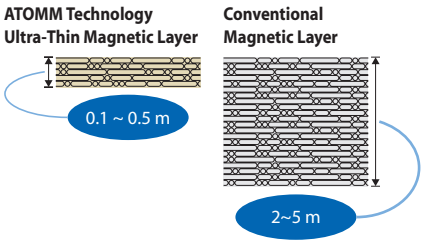


Slider Springs

* Featured on
DG5-170M
DG4-150M
DG3-125M

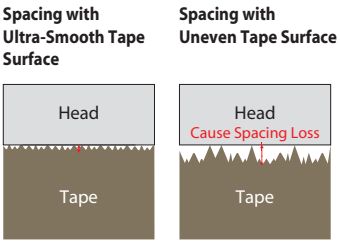
An ultra-thin magnetic layer for ultra-high-density recording

Conventional tapes have a magnetic layer that is 2~5m thick, but ATOMM ultra-thin metal coating technology makes it possible to create a magnetic layer that is only 0.1~0.5m thick. Since high-density digital recording performance improves in relation to the thinness of the magnetic layer, the output of Fujifilm DAT72 tape is consistently high. In fact, thanks to the ultra-thin magnetic layer created with ATOMM technology, both density and output are high, with excellent recording/playback characteristics and a high S/N ratio.



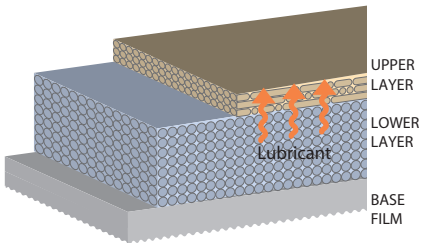
An ultra-smooth tape surface for exceptionally high output

When the surface of a tape is uneven, head contact is poor. This 'spacing loss' results in lower output. Newly evolved Fujifilm ATOMM technology creates an even smoother tape surface than in the past, ensuring improved head contact for consistently high output.



Lower-layer lubricant for enhanced durability

When tape is used repeatedly, friction between the tape surface and the heads can abrade the tape surface and cause head clogging. With ATOMM technology, lubricants are released from the lower layer to control friction and ensure that the tape surface is properly lubricated for stable tape transport after repeated use. In addition, head clogging is prevented and data reliability is significantly improved.



* **ATOMM** : **A**dvanced Super **T**hin Layer & High **O**utput **M**etal **M**edia Technology) * Featuring ATOMM technology (DG5-170M, DG4-150M, DG3-125M)

Specifications

Specifications

	Item	DG5-170M	DG4-150M	DG3-125M	DG2-120M	DG-90M	DG-60M
Basic Specifications	Format	DAT72	DDS4	DDS3	DDS2	DDS	
	Magnetic Particles	metal magnetic particles					
	Normal Recording Capacity (GB)	36.0	20.0	12.0	4.0	2.0	1.3
	Maximum Recording Capacity* (GB)	72.0	40.0	24.0	8.0	4.0	2.6
Physical Characteristics	Tape Thickness (m)	5.2	5.6	6.7		9.0	12.8
	Tape Width (mm)	3.81					
	Tape Length (m)	170	155	125		91	60

* 2:1 data compression

Cartridge/Drive Compatibility (as of March 2004)

Tape		Drive				
Format	Item	DAT72	DDS4	DDS3	DDS2	DDS
DAT72	DG5-170M	O	—	—	—	—
DDS4	DG4-150M	O	O	—	—	—
DDS3	DG3-125M	O	O	O	—	—
DDS2	DG2-120M	—	O	O	O	—
DDS	DG-90M, 60M	—	O*	O	O	O

* O = recording & playback supported * check with drive manufacturer

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