

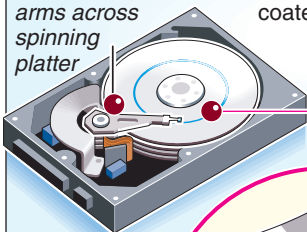
Squeezing in more

For nearly 50 years, disk drives have stored data using longitudinal magnetic recording – a technique now reaching its maximum limit.

New perpendicular recording is promising to deliver up to 10 times the capacity on the same media

Actuators: Push and pull read/write arms across spinning platter

Data stored on magnetically-coated metal or glass platter

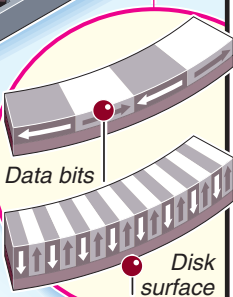


Track

Longitudinal recording:

Positive and negative data bits aligned horizontally

Perpendicular recording: Bits aligned vertically for greater storage



Data bits

Disk surface