

MAGNETIC HEAD, TAPE DRIVE, AND MAGNETIC TAPE STORAGE RACK

ABSTRACT

The present disclosure provides a magnetic head, a tape drive, and a magnetic tape storage rack, relating to the field of tape storage technologies. The magnetic head includes a plurality of read-write areas, the plurality of read-write areas are arranged in a height direction of the magnetic head, and they are spaced apart from each other. Each of the plurality of read-write areas includes a write area and a read area that are arranged in a width direction of the magnetic head, the write area includes a write head for writing data to a magnetic tape, and the read area includes a read head for reading data from the magnetic tape. When data access needs to be performed on a target data band of the magnetic tape, a read-write area closest to the target data band performs data access on the target data band. The magnetic head can reduce a thickness of the tape drive, allow a greater quantity of tape drives to be arranged in the rack, and improve a tape storage density of the rack. The magnetic head can also save materials for manufacturing the magnetic head, and reduce manufacturing costs of the magnetic head.

Fig. 10