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DIFFERENCE IN THE DETAIL
THERMOREGULATION

Keeping a cool head

Animals have evolved many ways of staying cool. Jackrabbits have enormous ears with exposed blood vessels that dissipate heat and keep their body temperature within reasonable limits. Overheating is also a problem for resistance welding machines and shortens the service life of the roller head. In the past, cooling was limited to the interior of the head, but we hit on the idea of double-sided cooling for the bearings, which has substantially increased both reliability and performance. Just another way in which many of our technologies mirror principles found in Nature.

Technology that keeps you ahead.

Like other animals in hot environments, the **black-tailed jackrabbit** (*Lepus californicus*) has oversized ears that help prevent overheating



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