

Braking pulley consists of a hub, a disk, a rim, a circular groove, a heat-accumulating material, a fan wheel made of aluminum alloy, which comprises of a hub and a flange connected by blades. The fan wheel rim is secured to the end face of the brake pulley rim via a flange and an O-ring by screws. The braking pulley rim consists of two sections- an outer and an internal section- separated by a circular groove and connected on one side by a disk, and in the circular groove between the outer and the inner sections of the brake pulley, a heat-accumulating material is placed, which is used as nanofluid containing fusible metals-sodium (Na) and lithium (Li)-in the form of powders mixed in proportion to water. The circular groove houses the heat-conducting rods of the fan wheel, which are perforated.