

Wireless Inchworm-like Compact Soft Robot by Induction Heating of Magnetic Composite

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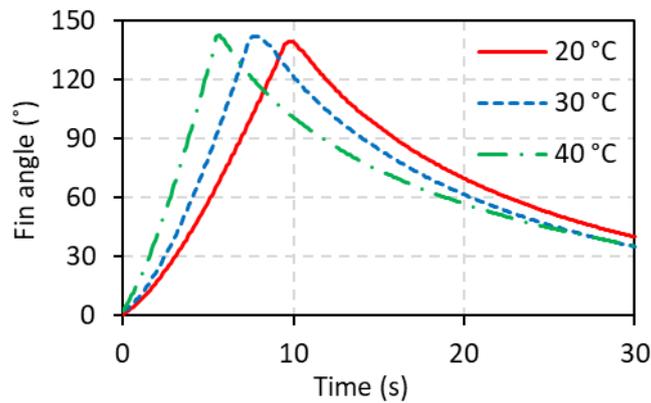


Figure S1. The numerical analysis of the expansion of the WIBot. When the ambient temperature outside the robot is increased from 20 °C to 30 °C and 40 °C, the time required for the temperature of the robot to be heated to 80° decreases from 10 s to 8 s and 6 s, respectively.

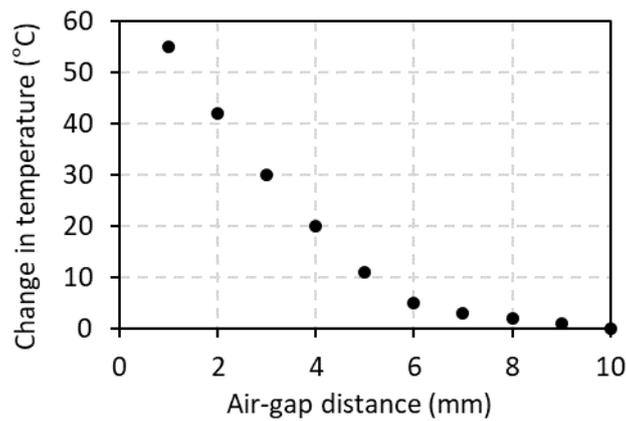


Figure S2. Temperature change of the WIBot according to the air-gap distance between the WIBot and the induction coil. When the distance between the coil and the WIBot become more than 6 mm, the WIBot is no longer operated by induction heating.