

Liquid metal in the tank

h

a

b

B

The diagram illustrates a mechanical system for a soft robot. On the left, a motor-driven tendon is shown with a red curved arrow indicating rotation. A red arrow labeled T points from the motor towards the central component. The central component is a cylinder containing liquid metal, with two green rectangular magnets (each marked with an 'X') positioned above and below it. Red zigzag lines representing electrical circuits connect the magnets to the top and bottom of the cylinder. Above the cylinder, a red zigzag line is labeled "Rubber bands for constraint". To the right of the cylinder, a tendon is shown with a red arrow pointing right, labeled "Tendon". Below the tendon is a yellow ring labeled "Rubber band for vibration". A vertical line on the far right represents a wall, with diagonal lines indicating a boundary. A horizontal arrow labeled $\Delta x(t)$ points to the right from the wall, indicating displacement.

Rubber bands for constraint

$\Delta x(t)$

Tendon

Rubber band for vibration

Liquid metal

magnets

Motor-driven tendon

T