

# FLEXTECH

Taking the next step  
with 'Printed Electronics'

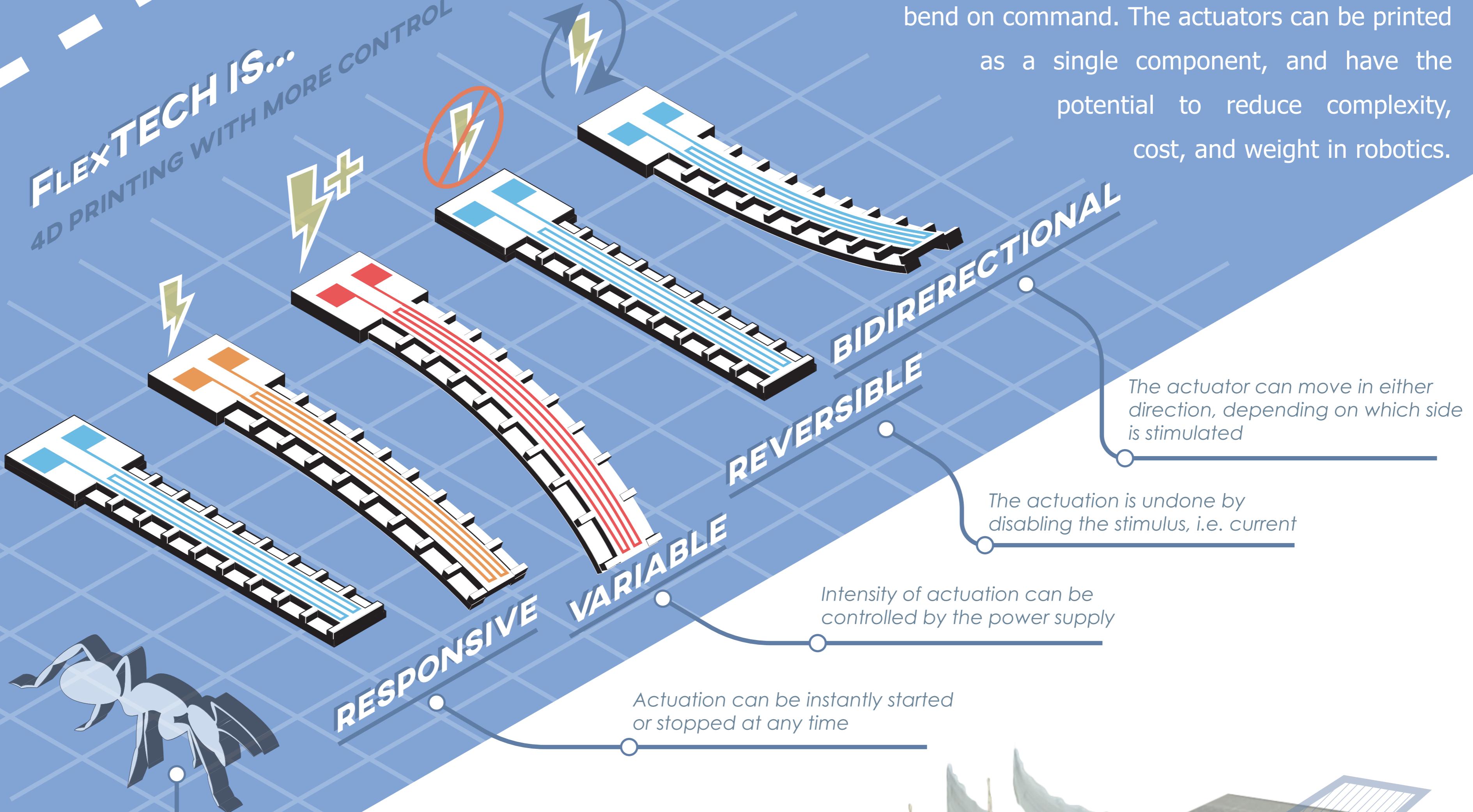
## FLEXURAL THERMAL EXPANSION BY CONDUCTIVE HEATING

// The material bends...

// due to a temperature difference..  
// caused by a resistor circuit.

FlexTECH is a new technology that combines Printed Electronics and 4D Printing to create a material that can bend on command. The actuators can be printed as a single component, and have the potential to reduce complexity, cost, and weight in robotics.

FLEXTECH IS...  
4D PRINTING WITH MORE CONTROL



### LIGHTWEIGHT

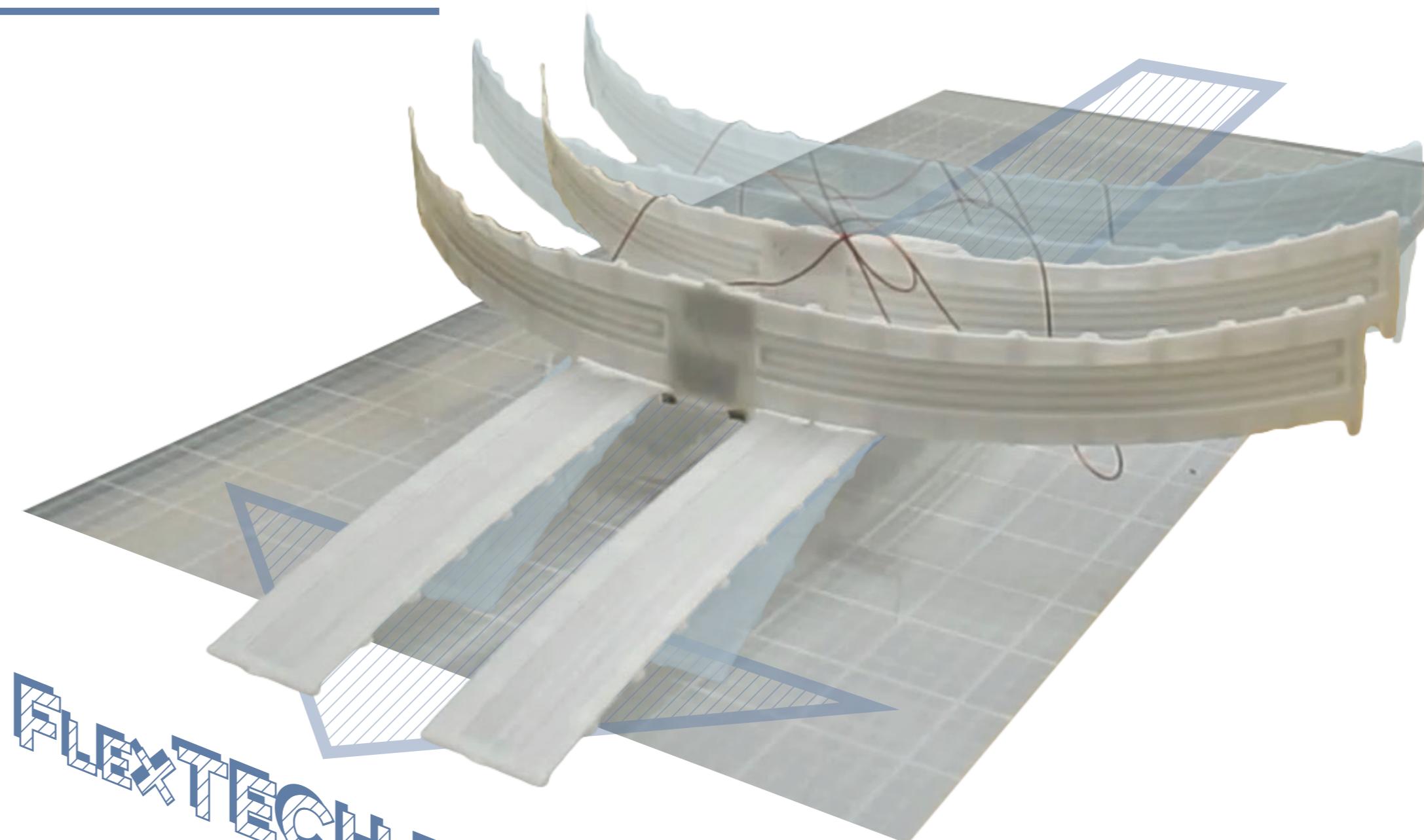
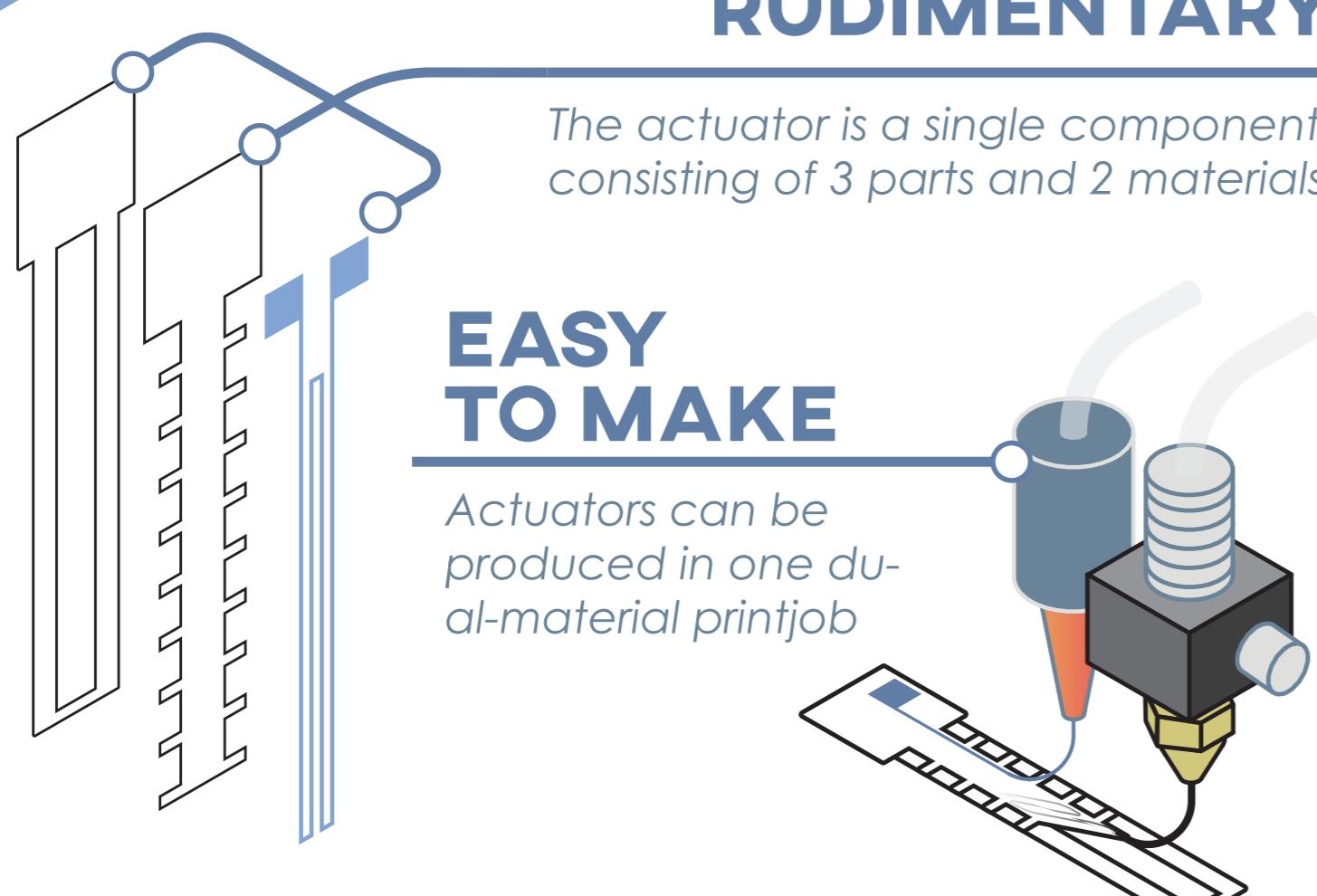
Actuators weigh only a couple grams but have a relatively high force-to-weight ratio

### RUDIMENTARY

The actuator is a single component consisting of 3 parts and 2 materials.

### EASY TO MAKE

Actuators can be produced in one dual-material printjob



FLEXTECH ROBOTS  
CAN MOVE