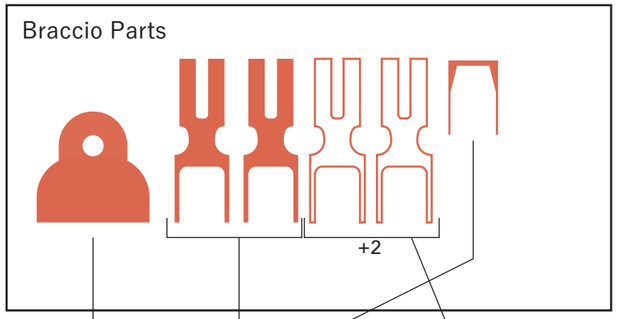
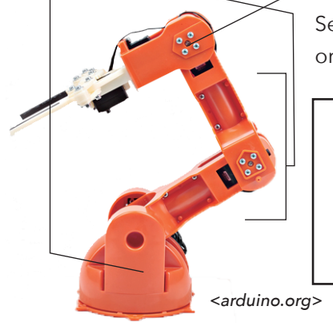
FLEXA - Flexible Anima :Soft robot with Braccio as the Born

Team FLEXA

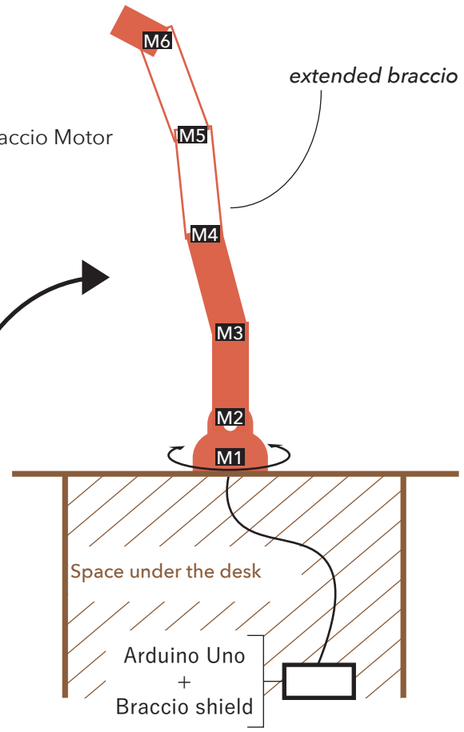
Component of FLEXA body



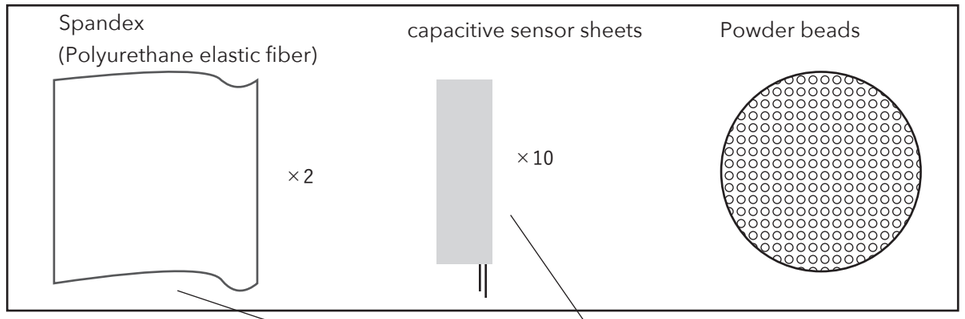


Self-Printing
or Apply with other Braccio sets

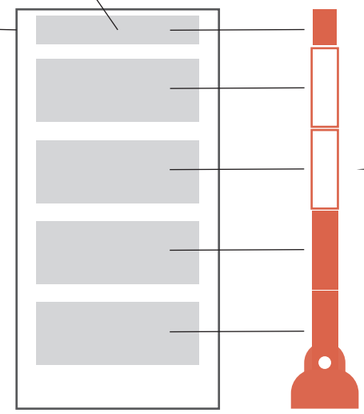
The number of Braccio' s arm parts are increased and extend the legs of the Braccio.

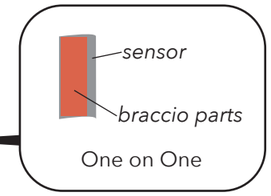


Component of FLEXA skin

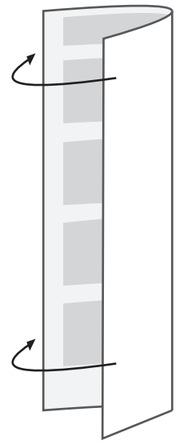


The extended Braccio is covered with the Polyurethene elastic fiber with powder beads.

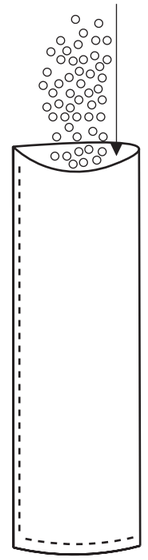




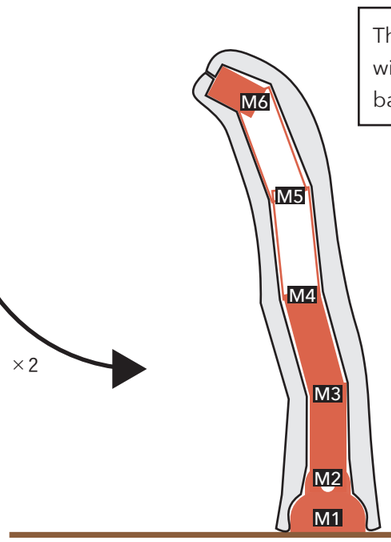
Capacitive sensor sheets are over layered on the polyurethane elastic fiber.



The powder beads are in the bag consisted to sensors and fibers. Then, the bag is closed.

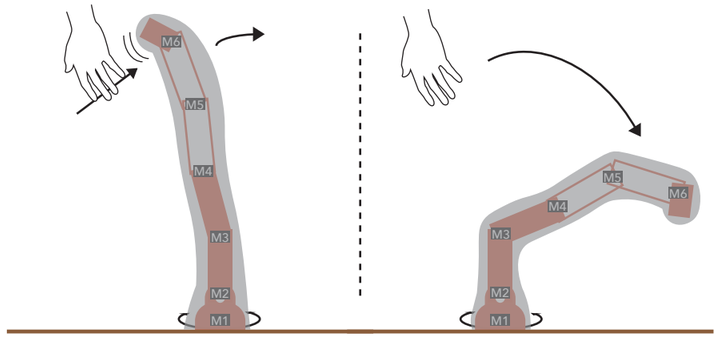


×2

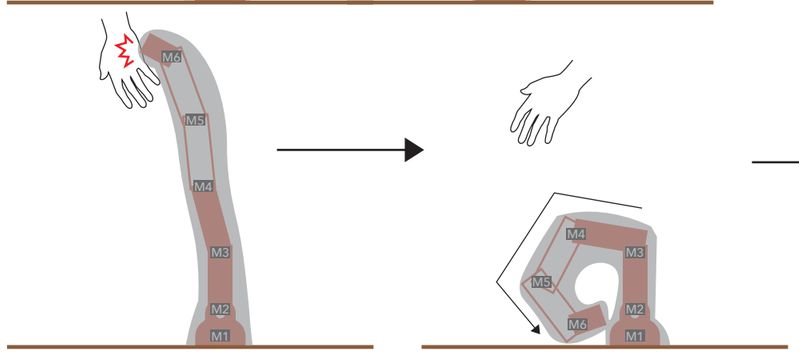


The Braccio is covered with the two identical bags.

Input & Output of FLEXA



FLEXA runs away from the people' s accession by detecting the proximity following the value of capacitive sensors.



Once it is touched by people, it squeezes to defend itself.

Supporting Images

UIST 2017 Student Inovation Contest