

THE MECHANISM BEHIND THE FLOWER

Inspired by Nature. Driven by Engineering.

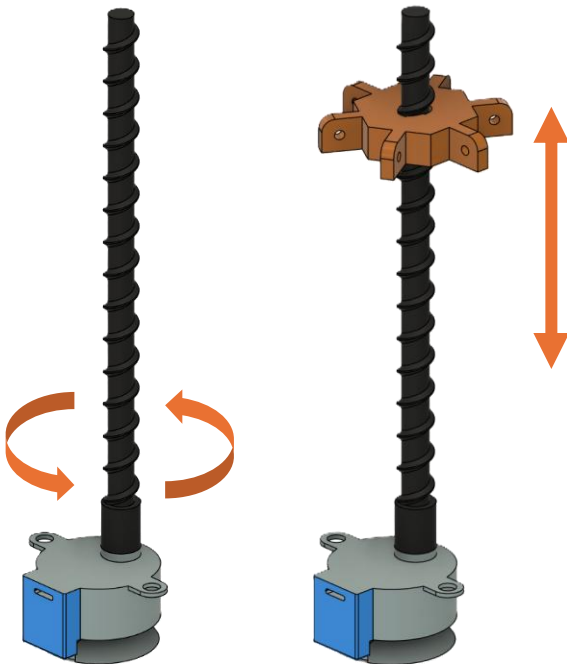
Linear Actuator Mechanism

The mechanism is driven by a stepper motor that rotates a lead screw. A threaded nut travels along the lead screw but is prevented from rotating because it is connected to the six petals through a linkage system. As the lead screw turns, the fixed nut is forced to move vertically instead of rotating. This vertical motion is transferred through the linkage arms, causing the petals to open or close depending on the direction of travel.



HOW IT WORKS

The rotation of the lead screw is converted into linear motion through a fixed nut, which drives the linkage arms. These arms translate the vertical motion into a smooth petal opening and closing action.



1

2



LINEAR ACTUATORS IN REAL LIFE



AUTOMATIC CAR BOOT



DENTAL CHAIR



ADJUSTBALE DESK

SEE THE VIDEO

