

The Science of Robot Grabbing Claws

The robot claw is used to hold or lift things up. It is a simple machine as it has levers.

A lever is a simple machine made from a length of hard material that can **pivot** (move) on a fixed hinge, or **fulcrum**. Everyday examples are a seesaw or a pair of scissors.

The robot claw is made of cardboard strips that are joined by split pins. These are the **levers**. The split pins mean the cardboard strips can **pivot** around a point, that's the fulcrum. When you pull the string attached to the **levers** you make a **pull force**.

The force is equally distributed, or even, between the two claws allowing you to make the robot claw reach for things and pick them up.

WHAT DO YOU THINK
YOU COULD USE A ROBOT
GRABBING CLAW FOR?