



“T.U.T.U.S”

Track Utilising Transport for User Safety

Covid response, delivery workload, low cost, commercial solution

Daniel Shin
Joey Back
Tony Lee
Peter Cheong

Statistics

- An average of around 2,000 reported rape cases in apartments in Korea alone
- Over 20% increase in workload compared to the same time frame last year
- In America alone over 2,500 courier workers have tested positive for covid-19
- Korean delivery personnels used to work 69 hours a week on average

YONHAP NEWS

The Secret Recipe

Low price:

- Single servo
- Compact design

Versatile Algorithm:

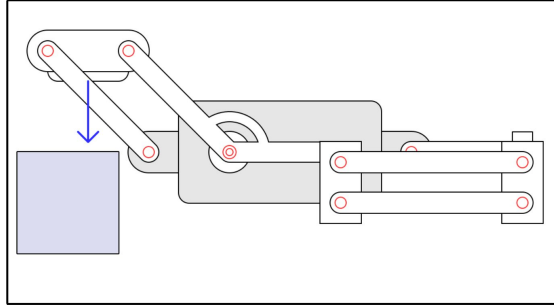
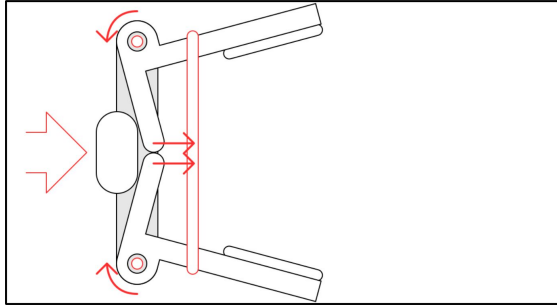
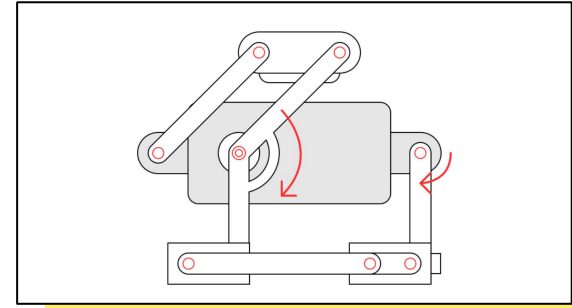
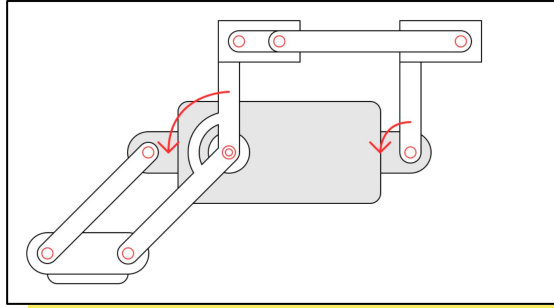
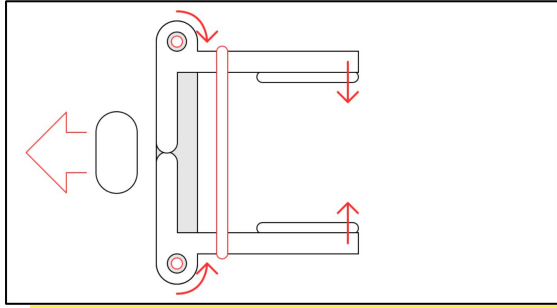
- Line tracer

Promise of:

- Trust and Security
- The Ultimate Amenity
- More Than Convenience



Mechanism



Comparison



STARSHIP:

\$5500 USD

Expensive Maintenance

Incompatible with Apartments



DRU:

\$20000 USD

Expensive Maintenance

Incompatible with Apartments

Small payload size



SAVIOKE:

\$2000 USD monthly

Expensive Maintenance



FedEx SameDay Bot:

Limited Range

\$5500 USD

Incompatible with Apartments

Software

State Wait

- Do not move

- Wait for delivery request

- If requested, get delivery information

- Barcode/Rfid/Camera

- Go to State Return

State Delivery

- Pick up package and go to destination

- Check if at destination

- Correct location/External

- acknowledgement(camera)

- Drop package

- Go to State Return

State Return

- Return to starting position

- Go to State Wait

