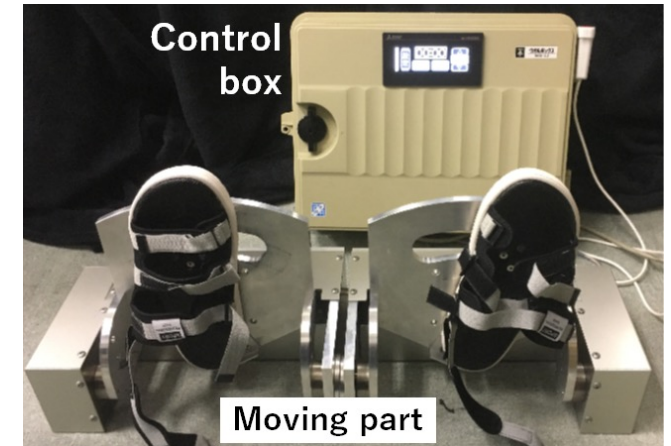


Research Theme : ODA Lab

We are conducting research to clarify human characteristics from the biomechanics, and developing devices for medical and welfare applications. Examples of our research themes are as follows.

- Development of a DVT prevention device
 - We are aiming to develop a device to prevent deep vein thrombosis by continuous passive movement of ankle joints.
- Development of custom-made pressure ulcer prevention mat
 - We aim to develop a pressure ulcer prevention mat that can both maintain a sitting position and disperse body pressure.
- Evaluation of the mechanism of femur fracture
 - We are investigating what kind of force acts on the femur during a fall to prevent fracture. For this purpose, we are conducting the finite element method to determine the factors that cause fractures.
- Examples of past research themes
 - Development of a bowel cleansing device
 - Shape optimization of NPPV nasal mask
 - Development of 3-D tactile sensor
 - Development of clarification technology for ultrasound imaging devices
 - Development of technology for optimizing the shape of prosthetic leg sockets



DVT prevention equipment



Material for pressure ulcer prevention mats