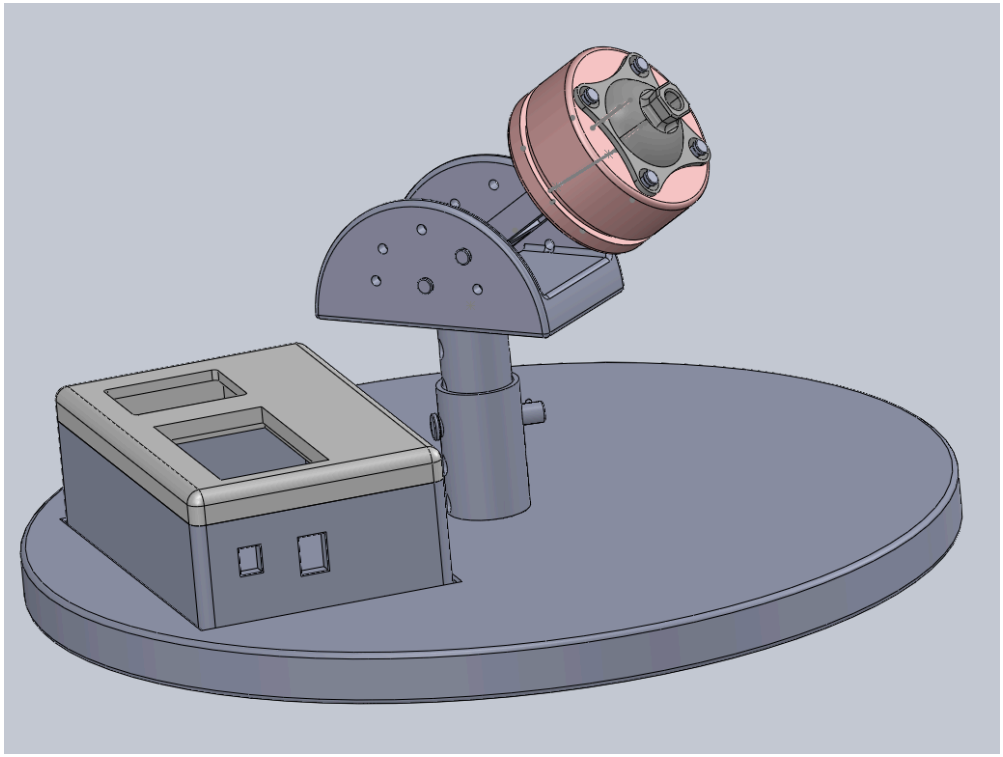
ARS
Advanced Recovery Solutions

PrecisionFit Analyzer



- The new way to fit lower limb prosthetic patients
- Allows for measurement along the fibular and tibial directions
- Load cell technology provides accurate and immediate feedback

PrecisionFit Analyzer:

Thank you for purchasing the Advanced Recovery Solutions: PrecisionFit Analyzer!

This device offers a way for clinicians to better fit patients with lower limb prosthetics. The result will be a more comfortable and secure fit of the prosthetic cuff. Features include a revolutionized user interface that provides accurate and immediate feedback to the clinician using the device, a unique design that allows measurement at various angles representing periods of the gait cycle, and a measurement system using two powerful load cells that can withstand up to 300 pounds of force.

The user interface was designed by the team at ARS to be both simple and intuitive, while still offering real-time data.

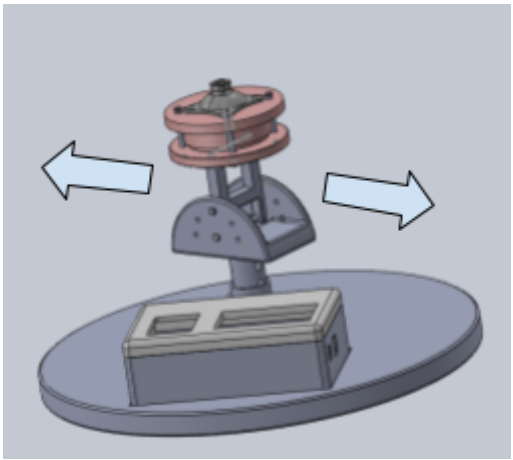
Instructions for Use:

Adjusting the length of the device:

ARS offers three adjustable pylon lengths to find the best fit for your patient. All beams are adjustable in height to replicate how close the patient's leg is to the ground on a daily basis. The small-length pylon has a range of 2-3 inches, the medium-length pylon has a range of 3-5 inches, and the large-length pylon has a range of 5-9 inches. The size of the base must be accounted for when choosing the best pylon for the patient to reproduce accurate data. Once the pylon is chosen, it can be secured into the base and the bracket with their corresponding connection pins. The pin along the length of the pylon can be removed to adjust the height more precisely. Make sure the pin is securely placed within one of the holes before continuing.

Positioning the load cells housing:

Five holes along the H-bracket allow for measurement at varying angles, including 0, 30, 60, -30, and -60 degrees to simulate the patient's gait cycle. When changing angles, the bottom pin remains in place while the top pin can be removed and positioned at the desired angle. The arm of the load cell housing must then be positioned at the same angle so that the pin can go through the arm to hold it in place. Make sure that all parts are secure before connecting the patient's socket to the device.



Turning the device on:

Make sure the device is plugged into a wall outlet, then flip the switch on the side of the controller housing to the ‘on’ position. The device should first display a prompt for the user. Enter the patient’s weight, in pounds, into the device through the use of the keypad. The device should display a reading at this point. If the device reads anything but zero, press the pound sign to tare the load cells before attaching the patient’s socket.

Connecting the patient’s socket:

The connection joint to the device is a Bulldog 4-Hole Pyramid Socket Concave Base Adapter Foot Ankle 300 lbs. This device can be used to attach a patient’s left or right leg female pyramid adapter socket to the device with ease. Once connected, the measurement should change on the screen to reflect the coordinates of the force vector at the chosen angle.

General Use and Maintenance:

- Avoid storing in areas with moisture and water
- Avoid exposing electrical components to moisture
- All exposed surfaces can be wiped clean with 70% isopropyl alcohol or disinfectant wipes; Clean after each use.
- Avoid pulling or excess force on the exposed wires
- Pick the device up from the base or secured pylons when transporting. Avoid grabbing the device by the top portion (load cell housing).