

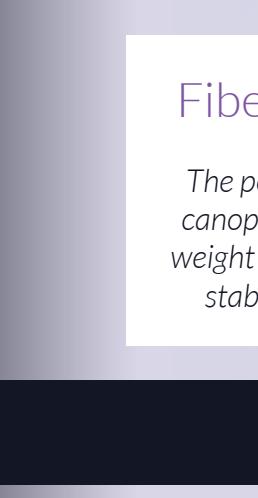
## Automated canopy for power wheelchair users

2.009 Purple Team - Fall 2016  
dryve.io

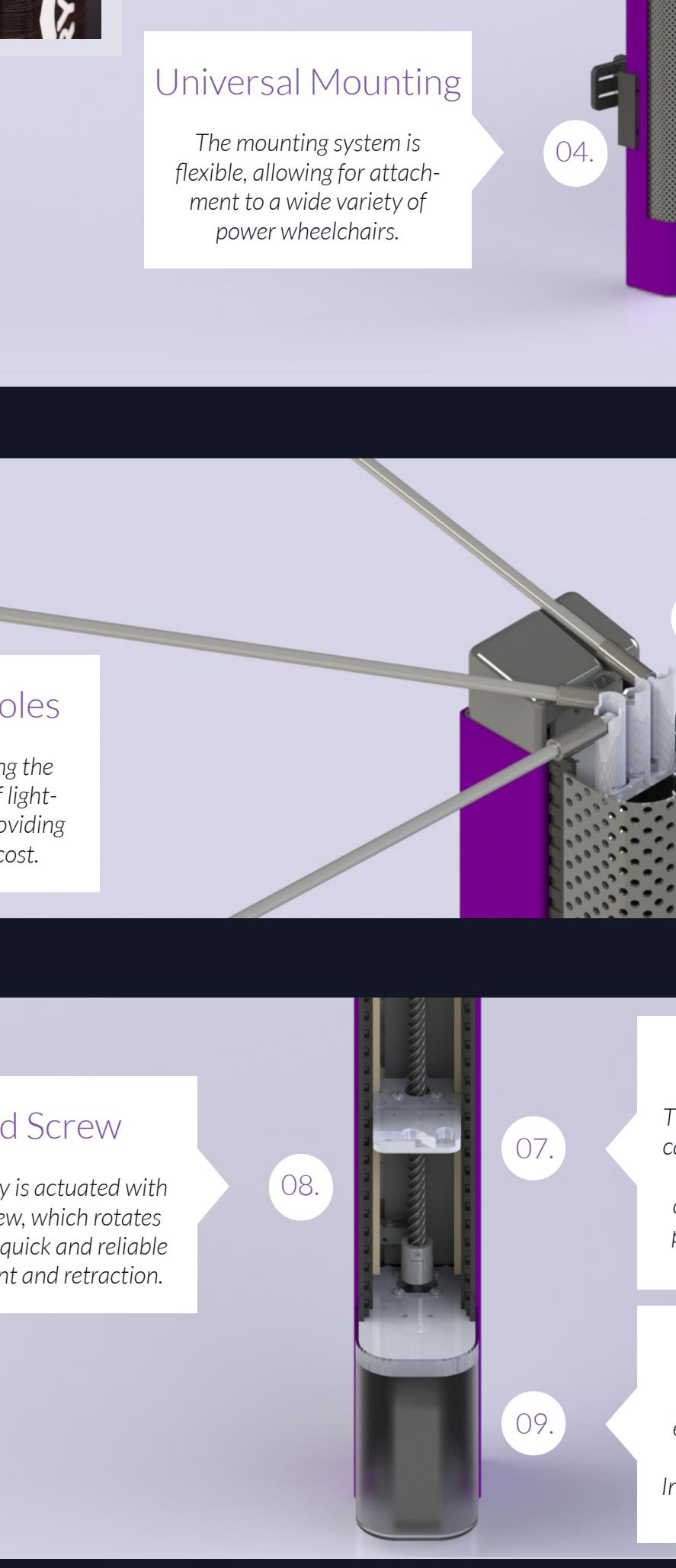
### Features

#### User Interface

Intuitive buttons with a low force threshold make it easy for a user to deploy DRYVE.



02.



01.

#### Ripstop Nylon

The canopy is made of polyurethane coated nylon - it is sturdy, waterproof, and able to withstand the elements.

03.

#### Mesh Casing

Aluminum mesh casing on the back of the enclosure prevents rust and allows for water drainage.

04.

#### Fiberglass Poles

The poles supporting the canopy are made of light-weight fiberglass, providing stability at a low cost.

#### Universal Mounting

The mounting system is flexible, allowing for attachment to a wide variety of power wheelchairs.

05.

06.

#### Hinges

Hinges at the base of each pole are angled to allow the canopy to easily switch between retracted to deployed state.

#### Lead Screw

The canopy is actuated with a lead screw, which rotates to provide quick and reliable deployment and retraction.

08.

07.

#### Guide System

The platform attached to the canopy is directed with guide rails within the enclosure, and has chamfered slots to prevent poles from rotating once deployed.

09.

#### Motor Housing

The motor and battery are enclosed in a sealed waterproof casing, which meets Ingress Protection Standards, to prevent water damage.

