

2015 Projects – Butler Plate Glass

Background:

Butler Plate Glass (BPG) is newcomer to the GCC senior project list. BPG produces a tempered plate glass products for a wide variety of applications. Last year, they donated glass for the Biology Grow Station project. The glass tempering machine sends hot tempered glass plates out on rollers to cool. The rollers are wound with Kevlar rope to support the glass and prevent breakage.

Project:

Work with BPG to develop a device that will wind Kevlar rope onto a roller used in the glass tempering machine. The device needs to be able to vary the winding pitch and tension of the rope. Rope and rollers are available from BPG. Manufacturing will be financially supported by BPG. Production quality drawings are needed to work with outside parts suppliers.

Skills Needed: Creo, FEA, Machine Design, Controls, Electronics

Requires a team of about 6 students.

