

Team 506: Corning Plugger Pallet Short Part Stabilization

Pawel Grum | Robert Kosmas | Taylor Larson | Segundo Sanchez | Jared White Academic Advisor: Eric Hellstrom, Ph.D

Self-Nesting T

The objective of this project is to produce a stabilization system to protect ceramics on Corning's conveyor while reducing the required manual labor.

Background Corning's manufacturing plant is experiencing a problem on their ceramic conveyor line. Ceramic filters are breaking when they fall to the ground due to vibration and sudden acceleration. The solution in place requires two employees to monitor the line. Our project aims to automate this process by protecting the ceramic while reducing the required extra labor.



CORNING





Future Work

- Re-design the engagement method from the conveyor to the device
- Select better hardware, and use bolts with matching hex sizes
- Further evaluate the cycle life and resistance of the UHMW