

Team 502: Material Handling of Ceramics

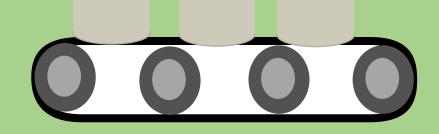
Mixing

Objective

Develop an alternative method for handling ceramic substrates that eliminates damage to the part

Key Goals

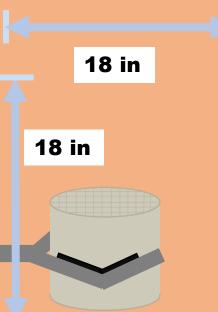
Results in a Lean Manufacturing System



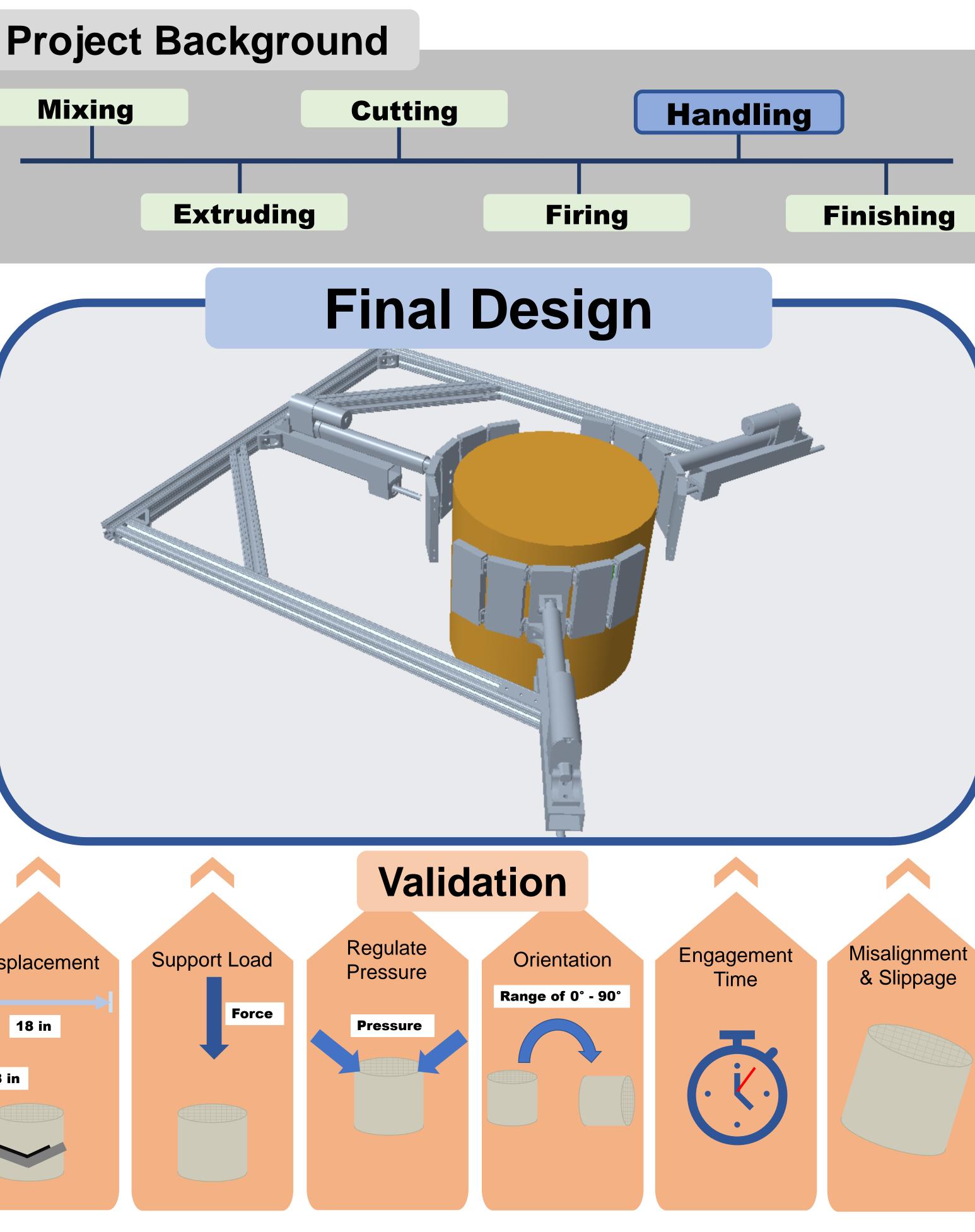
Test with Samples

Eliminate Part Damage

Displacement



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Sequence

Lower handler to correct position, determined using feedback from a proximity sensor

2 Handler closes in on ceramic filter while pressure is regulated using force sensors

3 Test fixture will lift handler vertically and horizontally and place the undamaged ceramic down

Future Operations

Change in Overhead cost

Cycle time less than or equal to 30 seconds





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Decrease scrap rate

Optimize on current facility layout

