

Table of Specifications

| Category | Requirement | Description | Specification |
|-------------------|----------------------|---|--|
| Process | Speed of operation | At least as fast as a human operator. Robot is capable of operating with minimum human input. | 15 assembled nutplates in 15 minutes |
| | Setup | Can be adapted to various nut plate assembly tasks with minimal setup time | Adjustability built into system |
| Rivets | Depth of Rivet | Rivet depth must meet tolerance requirements. | -0/+0.010 inches |
| | Edge margin of rivet | Rivets are placed at appropriate distance from edge and other rivets | Minimum distance should be at least two diameters of rivet head |
| Nutplate | Clocking of nutplate | Nutplate is positioned in the correct orientation | Within 2 degrees from drawing specifications |
| | Location | Nutplate is positioned in the correct location | Within 0.030 inches of drawing specifications |
| Human Interaction | Manual operations | Assembly requires a minimum of manual operations | Human interaction limited to loading/unloading of parts and assemblies |