Export CAD files for CortexPrime

How to export data from different software

CAD files are the source of information for Cortex. Depending on the source software, some features will work or not.

1. MODEL WELDS IN THE CAD SOFTWARE

- **Solidworks, Creo 3D, Tekla, SolidEdge**:
    - The simplest way to model the welds to instruction CortexPrime where to weld and what size to weld is to model them as triangle weld or simpler cylindrical weld. Click here to see how.

2. EXPORT CAD DATA

- **Solidworks**: Export STEP files from Solidworks files
- **Creo 3D**: Export STEP files from CREO 3D
- **Tekla**: Export IFC files from Tekla

3. PARTS/3D MODEL ANALYSIS OVERVIEW

- Generally, AGT Robotics can test customer parts with CORTEX Prime to follow these objectives:
    - Validate the compatibility between the CAD software but mostly how the parts are drawn;
    - Welds:
        - Validate that the welds modeled in the CAD software can be read by Cortex; OR;
        - Validate that the auto-generated welds by CORTEX are located at the right position and with the right size.
    - General accessibility:
        - Validate the overall results (what welds can be done with robots)?
        - Validate main reasons if welds are not supported.

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Page: 1 / 1