SigmaTUBE for Soitaab Machines
What is SigmaTUBE?

SigmaTUBE is a complete tube cutting software solution that runs seamlessly integrated inside SolidWorks. SigmaTUBE offers linear nesting for round tubes, rectangle tubes and other cross sections for tube cutting plasma machines.
One click Toolpath generation

- SigmaTUBE automatically detects the model, orientation, cuts, features and generates toolpath on the tube.
SigmaTUBE Features

• **Leadin Management**
  – Automatic and interactive lead-in lead-out parameter management.

• **4-Axis modified toolpath**
  – SigmaTUBE generates geometry compensated toolpath with maximum material removal (inside and outside profile) for oblique cuts.

• **Tabs/Microjoints**
  – Automatic and interactive tabs can be inserted on the tube.
SigmaTUBE Features

• **Automatic Processing of Assembly**
  - SigmaTUBE can process multiple profile parts included in an assembly automatically. SigmaTUBE generates different tasks based on tube profile and dimensions.

• **True Shape Nesting**
  - SigmaTUBE offers powerful true shape nesting to achieve optimal nesting results and minimize the scrap.
SigmaTUBE Features

- **Tilt Angle Correction**
  - SigmaTUBE automatically modifies the tilt angle value to accommodate the tilt angle limits of the machine.

- **Weld Preparation**
  - SigmaTUBE automatically modifies the toolpath to accommodate the welding joints without modification of CAD geometry.
• **Inside/Outside Profile**
  – SigmaTUBE provides the user with option to select the inside profile or outside profile for toolpath generation.

• **Variable Dead Zone**
  – SigmaTUBE has an option for variable dead zone parameter. The dead zone value for the tubes with flat ends enables complete utilization of stock. For tubes with bevel ends, SigmaTUBE applies a different dead zone parameter.
**SigmaTUBE Features**

- **Simulation**
  - SigmaTUBE provides a detailed animated preview of cutting process for each tube.

- **Report Generation**
  - SigmaTUBE provides option to generate customizable detailed reports.
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