

**Dimensioning:**

The Travel Specifications available on the official Haas website provide comprehensive information regarding the travel limits for each specific machine model. These dimensions can be utilized to accurately constrain the models according to specific requirements.

**VMC/HMC set Origins:**

Upon importing the model, the origin is set at the intersection point of the Z-axis ball screw and the Y-axis ball screw, while the X-axis is oriented perpendicular to the Y-axis and Z-axis. Furthermore, the table and spindle head are both positioned in their respective home positions.

**LATHE set Origins:**

Upon importing the model, the origin is set at the intersection point of the Z-axis ball screw and the X-axis ball screw, while the Y-axis (if available) is oriented perpendicular to the X-axis and Z-axis. Furthermore, the Turret is positioned in its respective home position.

**Formats:**

HAAS provides machine models in both STEP and X\_T Parasolid formats. Each set of files is contained in a single ZIP file. The files must be extracted to be usable.

STEP file format:

- Standard for the Exchange of Product model data.
- Neutral and vendor-independent format for 3D CAD data exchange.
- Transfers comprehensive product information, including geometry, assembly structure, and parametric data.
- Enables seamless interoperability between different CAD and CAM applications.
- Preserves design intent and facilitates collaboration across software platforms.
- Supports both 2D and 3D data representation.

Parasolid file format:

- Robust geometric modelling kernel for storing precise 3D solid models.
- Capable of representing complex shapes and features.
- Compatible and widely used for exchanging models between CAD systems.
- Retains important design information, such as feature history and material properties.
- Facilitates efficient editing and modification of models in compatible CAD software.

**Side-Mount Tool Changer (mills only):**

The side-mounted tool changer incorporates an integrated arm within its design, strategically positioned to establish contact with the tool changer mechanism. To achieve a comprehensive evaluation of potential collisions, it is recommended to properly align the desired toolholder with the tool changer arm in the lowered position. We have included an arm in both the upper and lower positions in the model. Subsequently, executing a full 180-degree rotation of the arm with the tool installed will effectively reveal the extent of the tool change swing's collision area.

**Mill Workholding:**

No workholding is included, as there are many possibilities. HaasTooling.com offers 3D models for the workholding available on our site.

**Lathe Workholding:**

Standard workholding is included, and in some cases, we also include the optional workholding.

\*\*\*\*If you have read this document and still have questions, please email [Products@HaasCNC.com](mailto:Products@HaasCNC.com)

**HAAS AUTOMATION, INC.**

2800 Sturgis Road, Oxnard, California 93030

**Tel:** +1-805-278-1800 **Online:** [www.HaasCNC.com](http://www.HaasCNC.com)