

Dimensioning:

The Machine Layout Drawings (MLD) 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. It is noteworthy that 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.

File Naming Convention:

The machine model name will be displayed as the primary file name followed by the file type and the date in which the file was created. Alternative options will be included within these files and must be suppressed based on options chosen by the customer.

Model-Name **File-Type** **Date-Created**

(Date-of- Created is the revision level)

Examples:

VR-14_x_t_5_30_2023 = VF-14 in Parasolid file type and Created on May 30th, 2023

VR-14_STEP_5_30_2023 = VF-14 in STEP file type and Created on May 30th, 2023

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 modeling 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.

RGB Values for Model Colors:

LG - Light Grey - (240-240-240)

DG - Dark Grey - (90-90-90)

BLK - Black - (0-0-0)

WHT - White - (255-255-255)

TPT - Transparent - (transparency = 90%)

RED - Red - (186-0-0)

GRN - Green - (0-186-0)

Side-Mount Tool Changer:

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 tool holder with the tool changer arm and subsequently lower the tool changer arm by 6.56 inches for machines equipped with a 50 taper tool changer, or by 4.56 inches for machines featuring 40 and 30 taper configurations. Subsequently, executing a full 360-degree rotation of the arm will effectively reveal the extent of the tool change swing's collision area.

Workholding:

No Workholding is included, as there are millions of possibilities. Individual Workholding vendors can provide appropriate models.

****If you have read this document and still have questions, please email haasmarketing@HaasCNC.com