

Which SOLIDWORKS CAM package is right for you?



SOLIDWORKS CAM PRODUCT MATRIX

Features	SOLIDWORKS CAM			
	Standard	Professional	Machinist Standard	Machinist Professional
RULES-BASED MACHINING	√	√	√	√
<p>SOLIDWORKS CAM uses rules- based machining to enhance the programming process while leveraging tolerances that were assigned to components. Rules-based machining lets you focus on the critical areas of making a part rather than touching every feature that needs to be machined.</p>				

TOLERANCE-BASED MACHINING (TBM)	√	√	√	√
Tolerances and annotations in 3D models are used to automatically create machine programs. TBM automatically adjusts asymmetric tolerances to mean tolerances for cutting tool strategies.				
KNOWLEDGE-BASED MACHINING (KBM)	√	√	√	√
KBM is like have a machinist at your fingertips. Once features are identified by automatic or interactive feature recognition, KBM defines machining strategies and tools to best machine the geometry. Using these rules will automatically allow you to define repeatable machining processes based on your company standards.				
ASSOCIATIVITY WITH SOLIDWORKS 3D CAD	√	√	√	√
Any change made to a design in SOLIDWORKS CAD is automatically updated, applied, and reflected in SOLIDWORKS CAM				
AUTOMATIC FEATURE RECOGNITION (AFR)	√	√	√	√
Recognize certain types of geometry (holes, pockets, bosses, and turn—Professional only) not only as CAD features. Automatic feature recognition allows prismatic parts to be identified at a feature level based on machinable shapes.				
AUTOMATE MACHINE TIMES	√	√	√	√
Automate machine time calculation and compare it to traditional methods for ensuring all aspects of a part are accounted for ahead of time before committing to production.				
3 + 2 PROGRAMMING		√		√
SOLIDWORKS CAM Professional can employ a machining technique where a three-axis milling program is executed with the cutting tool locked in a tilted position using the five-axis machine's two rotational axes.				
HIGH-SPEED MACHINING (HSM)		√		√
SOLIDWORKS CAM Professional HSM using VoluMill technology maintains constant tool pressure throughout the cutting process. The variable feed rate allows the tool to cut at full depth to shorten cycle times while extending machine and tool life. This best-in- class machining routine works with standard cutting tools to lower overhead cost when machining components.				

TURNING CAPABILITIES		√		√
<p>SOLIDWORKS CAM Professional has turning capabilities that include face rough and finish, rough and finish turn, groove rough and finish, rough and finish bore, cut-off, ID and OD threading, and drill, and tap on center.</p>				
PART MODELING/IMPORT			√	√
<p>Part modeling and import is the foundation of programming in a digital world. Creating and importing parts allows the user the ability to communicate with designers, read MBD data and make necessary manufacturing adjustments. Because it is SOLIDWORKS, it is easy to use and learn.</p>				
ASSEMBLY MODELING/IMPORT				√
<p>Assemblies take our components to the next level by allowing us to check fits and tolerances plus explain to manufacturers how we want to build our products. By using assemblies for manufacturing, we can import clamps and vises to make sure our parts are made the first time correctly and provide the necessary clearances to be able to remove the finished product when it completed.</p>				