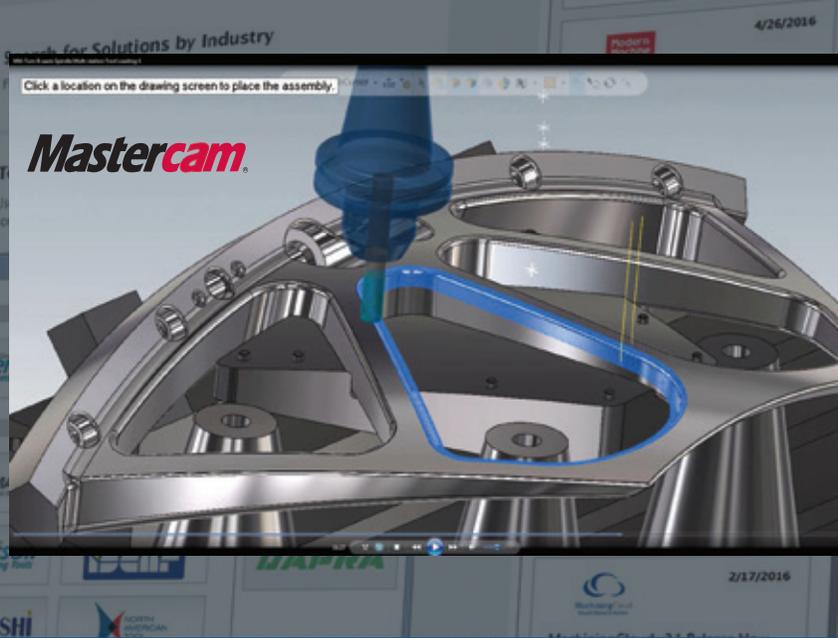


Concise, up-to-date tooling data using the MachiningCloud application in Mastercam



Seamlessly research, analyze, and import viable tooling data from various manufacturers, saving both time and money in CAM Programming

Accessing today's ecosystem of manufacturer catalogs and websites for real-time, accurate tooling data is far from a unified process. CAM Programmers must quickly filter through a universe of tooling possibilities in order to find the most ideal solution for the job. The result is a mix of tooling data, whether valid or imprecise, which increases setup times.

Due diligence for tooling data is resource consuming on many fronts, especially when validating performance against your machine's capabilities and the material's specifications. Tooling selection that relies on disparate sources ultimately affects toolpath quality, productivity, and machine performance. From feeds & speeds to high quality, 3D model imports, users require an integrated, on-demand application that ensures the most refined tooling data possible.

An ideal solution should put hard manufacturer data to work:

- Curated, up-to-date tooling data
- A manufacturer agnostic, unified digital source
- Fast-tracked imports into CAM software
- Intelligent recommendations for optimal results

MachiningCloud application reinvents how we source tooling data

MachiningCloud provides users with simultaneous access to the latest tool geometry, 3D models, feeds & speeds, and inventory availability from a growing list of manufacturers.

It's now integrated into Mastercam 2018, thereby enabling CAM Programmers to quickly tap into the latest cutting tool and accessory data from world-leading suppliers – all backed by concise product information that's continuously updated and refined by MachiningCloud.

Intelligent, "on-the-fly" information

While MachiningCloud lets you quickly research and collate suitable tool assemblies for a job, it advances far beyond this with intelligent, cloud-based capabilities that can augment your CAM workflow.

Search & Assemble

- Rapid, dynamic search and filter capabilities to quickly sort and collate tool data from multiple manufacturers
- Perform global searches within a manufacturer's entire inventory or search locally within your shop inventory
- Manufacturer catalogs are continuously added and updated, backed by data integrity improvements that result in seamless imports
- "Fits-With" capabilities show whether a brand's tooling and accessories properly fit and mount to your machine
- With Tool Advisor, get strategies and tooling recommendations from manufacturers based on what you're trying to cut
- Save tooling data in My Tools for future use



Prepare & Review

- Native, cloud-based CAD and 3D viewer that assembles tools automatically
- Build different combinations of tool assemblies and store them for instant retrieval
- Feeds and speeds recommendations are taken direct from the tool manufacturer and validates torque, power, and max spindle speed against your machine's capabilities
- Recommended projection and clamping lengths are based on hard manufacturer data
- Quickly simulate and analyze different tooling combinations for collision detections and performance outcomes

Export & Validate

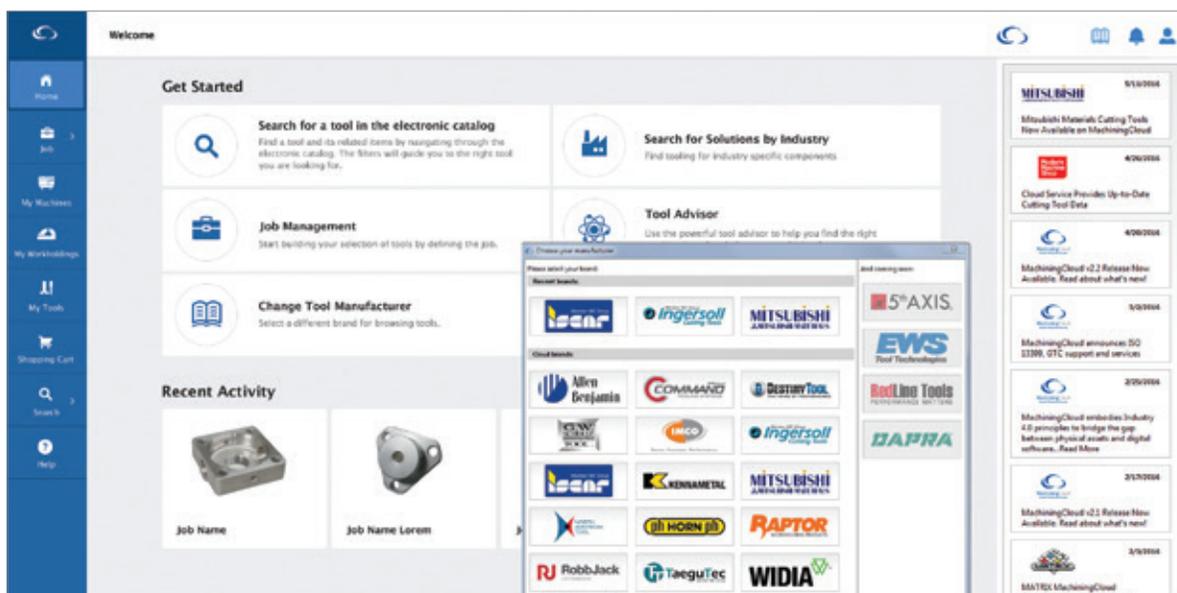
- Achieve safer CAM simulations with the most accurate, up-to-date 3D models
- Tool projection lengths are included as part of MachiningCloud's export package
- Remove the burden of both searching and manually entering tool data after exporting a job from MachiningCloud to Mastercam
- Seamlessly validate tooling data during CAM imports

Collaborate & Share

- Create, store, and share job reports direct from MachiningCloud with your team or other workgroups
- Synchronous, uniform tool data across all departments, from design to purchasing
- Standard report formats for transfer to ERP, MES, BOM, and other applications that includes 3D models, part data, callouts, and more
- Device agnostic accessibility via computer or tablet
- Streamlined file sharing results in better data accuracy and faster job completion

Using the MachiningCloud application with Mastercam

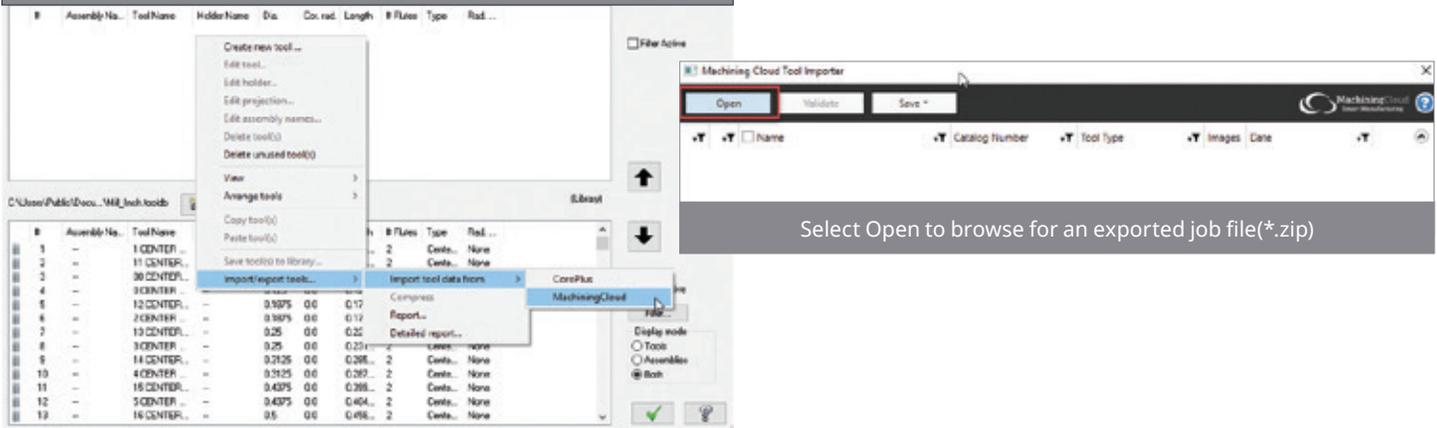
Step 1 Dynamically search and save tooling data from a growing list of manufacturers



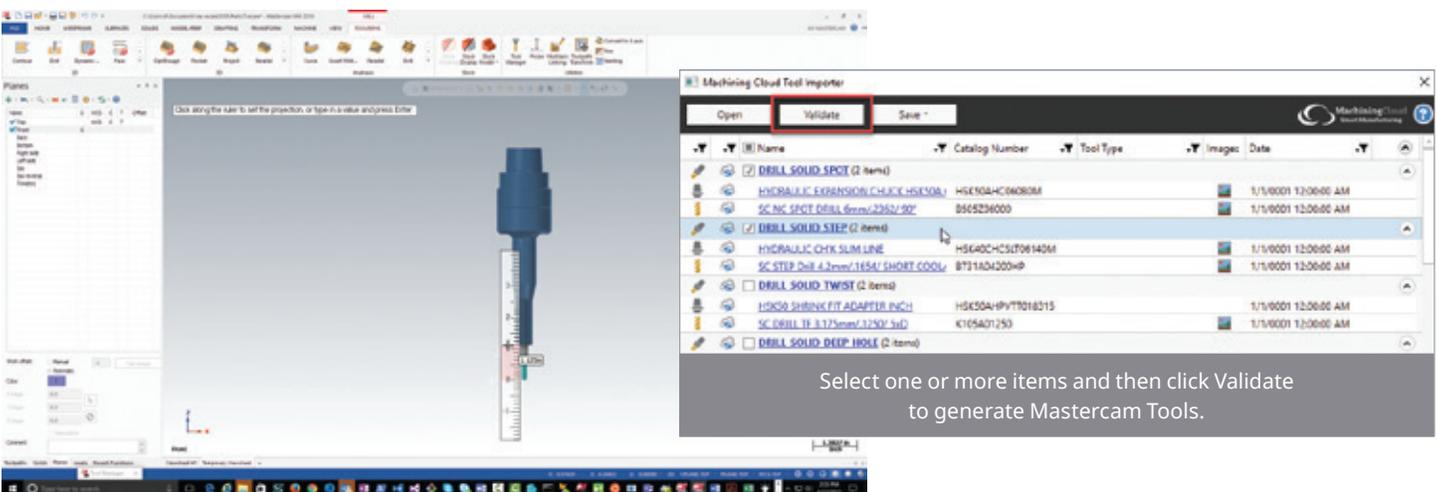


Step 2 Import the selected tool assemblies from MachiningCloud into Mastercam via Tool Manager

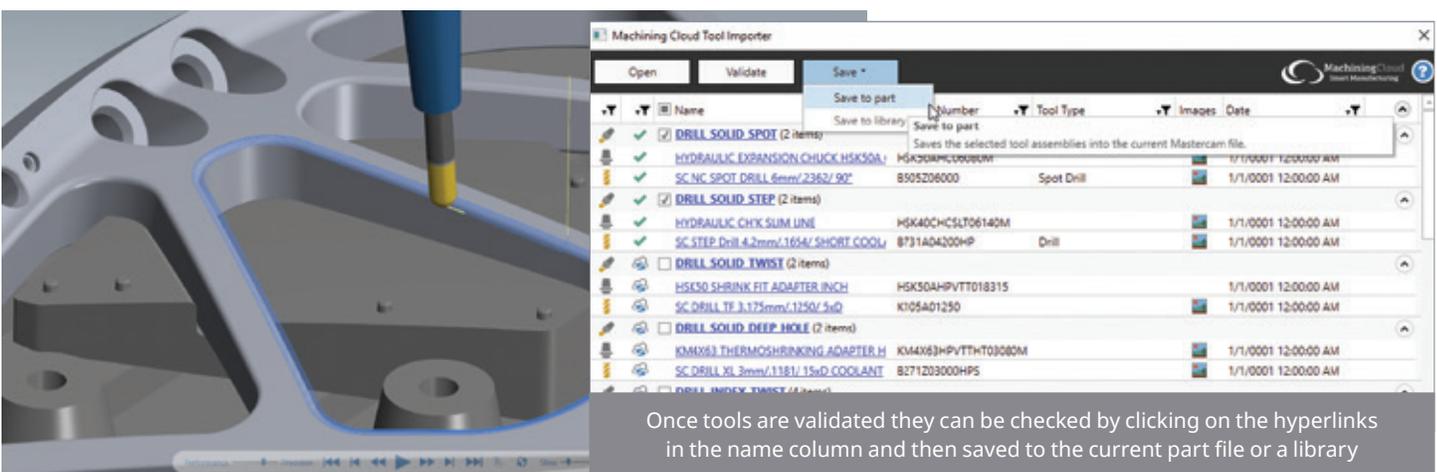
Right click to bring up context menu. Select: Import/export tools > Import tool data from > MachiningCloud



Step 3 Validate assembly components and modify projection values



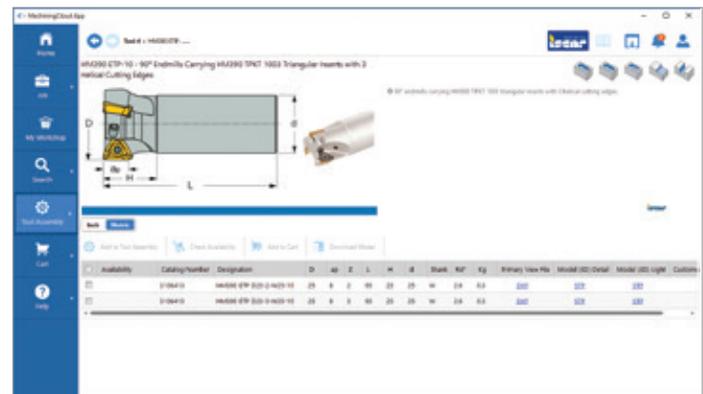
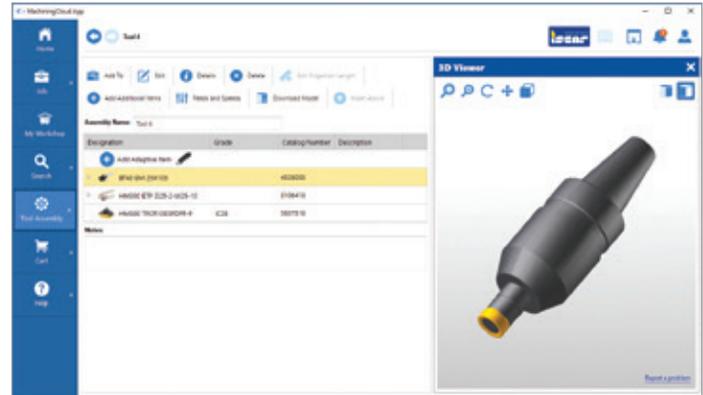
Step 4 Finalize validated data and proceed to Mastercam





Fast track processes across all areas of the workgroup

- **Save time handling tooling data**
Find the right tooling quickly and reduce manual input times
- **Improve data accuracy**
Accurate data equates to precise calculations and simulations in CAM. MachiningCloud bridges the gap between manufacturer data integrity and CAM software.
- **Higher quality toolpaths with less setup time**
MachiningCloud's recommendations are based on the latest hard manufacturing data, resulting in easier validation and simulation cycles
- **Optimizes machine performance**
Proper tool selection via MachiningCloud will maximize your equipment's capabilities
- **Improved cycle times and increased productivity**
Accelerate productivity and free up shop floor resources
- **Faster tool due diligence**
Reduce the time it takes to get the job done right the first time
- **Broader data availability**
Have the correct information from the start to assemble tool data
- **Achieve rapid programming times**
Accelerated CAM programming workflow
- **Unify collaboration efforts**
Easier coordination with work team, company, and partners
- **Consistent data integrity**
A uniform, manufacturer agnostic data stream that's always up-to-date and geared for quality



MachiningCloud accelerates the CAM tooling selection process

The MachiningCloud application allows CAM Programmers to sort through disparate manufacturer tooling data and quickly prepare jobs for import into Mastercam. Backed by cloud-based intelligence, experience a cutting-edge tooling selection process that ensures optimal results across all facets of production.

About MachiningCloud

MachiningCloud is an independent provider of CAM tooling data from the world's leading suppliers. We deliver what users are clamoring for – instant access to the most current tooling data, delivered right to their desktop. We've integrated a high power toolset that gives users the ability to put tooling data to work right on the spot – elevating their workflow to a new level of efficiency and precision for CAM programming.

The MachiningCloud community is growing exponentially each month as new partners come online. We continually encourage leading brands worldwide to publish their product data on MachiningCloud. If you don't see your favorite cutting tool brand in our library yet, we encourage you to contact your tool supplier to join MachiningCloud.

For more information about MachiningCloud, Smart Manufacturing and Industry 4.0 solutions, please visit www.machiningcloud.com.

