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Agenda

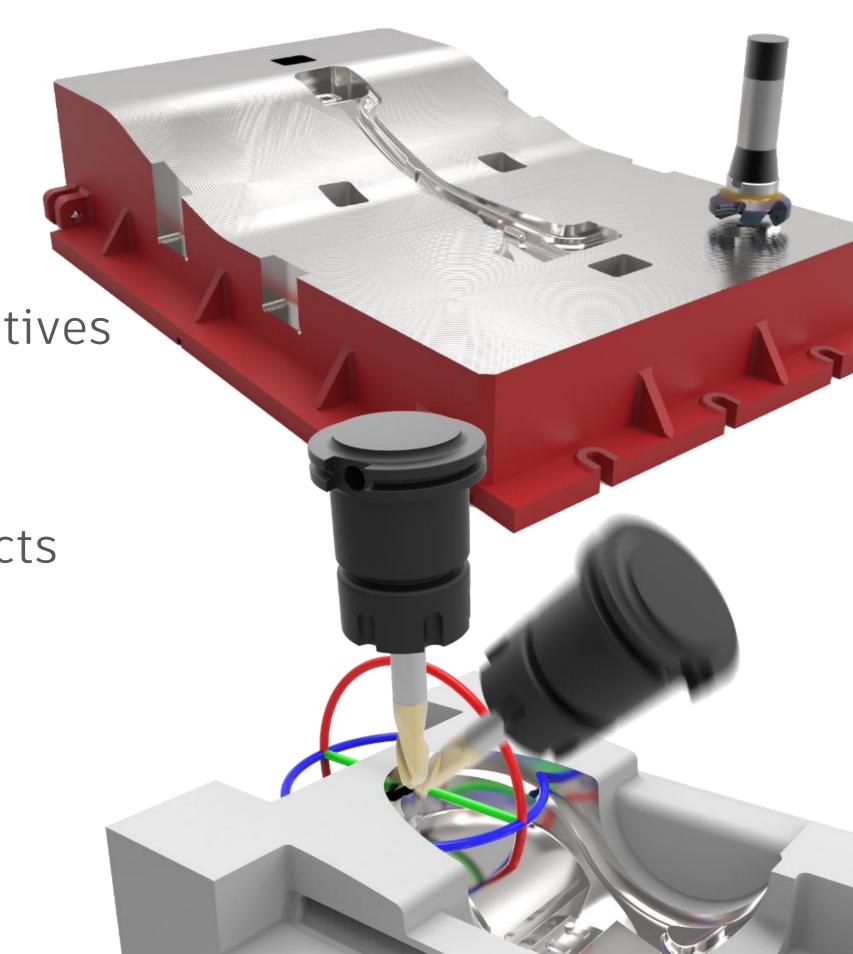
Introduction

Class Summary, Learning Objectives& About Me

Where to Start?

Autodesk Subtractive CAM Products

- Autodesk HSM & Demonstration
- FeatureCAM & Demonstration
- PowerMill & Demonstration
- Summary



Class Summary

This class will introduce you to the range of Autodesk CAM products. Starting with the HSM products this class will look at product capabilities, and which CAM product to move to next, when your focus changes.

So whether it's the high level of automation and multi-tasking machining centre capability of FeatureCAM, or maybe the high-degree of toolpath and machine control of PowerMill you require, this class will help you make the right decision for your next CAM package.

Key Learning Objectives

- At the end of the class, you will:
 - Learn about the range of subtractive CAM products Autodesk offers
 - Learn where each CAM product overlaps, and more importantly specializes, in order to make the right choice
 - Learn more about the types of parts and machines each package caters for
 - Learn more specifically about the automation within FeatureCAM and the level of toolpath control within PowerMill



About Me



- Came to Autodesk through the Delcam acquisition
- Started with Delcam in 2004
 - Initially in the UK department as an Applications Engineer
 - Training & supporting UK customers
 - Moved to International Support
 - Assisted the global Delcam reseller network in both pre & postsales activities
- Autodesk Technical Marketing Manager
 - Business, Strategy & Marketing (Design & Manufacturing)

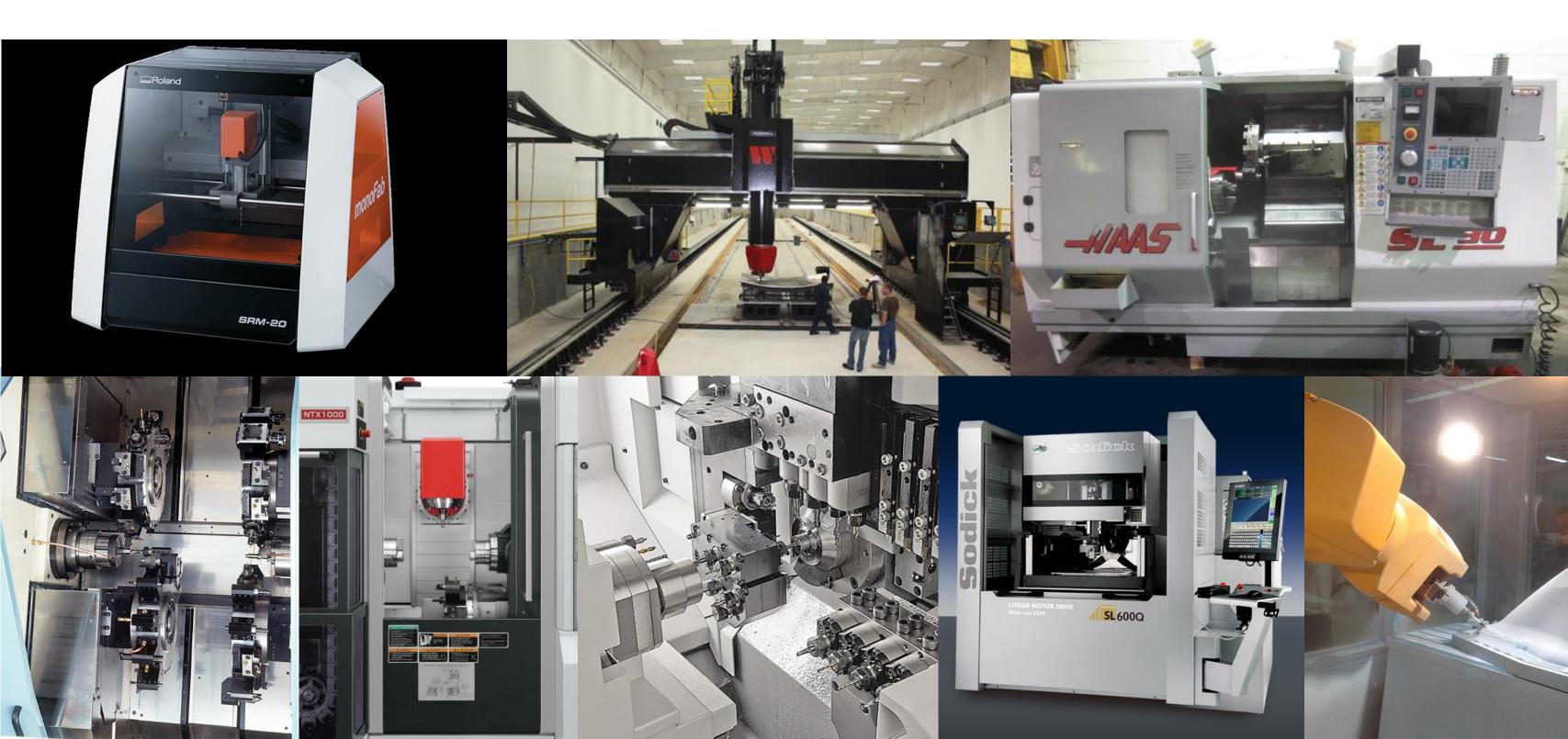


Type and Quantity of Parts To Be Produced?

 Part type and the level of difficulty will have a strong influence on the choice of CAM package



Machine Types Owned or to be Purchased?

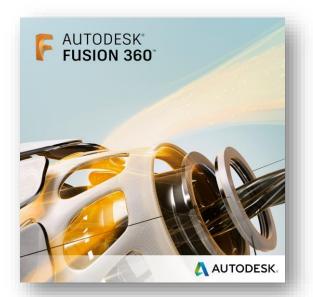




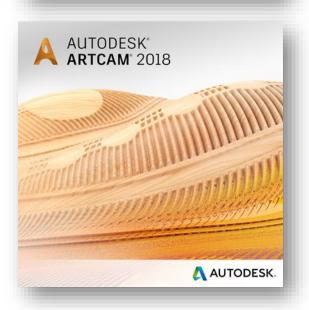
Autodesk Manufacturing Products

 Autodesk offers a broad range of products for manufacturing covering Composites, Inspection, Design for Manufacture, Additive & Subtractive processing

- This session focusses on Subtractive
 - In this case we'll focus on Autodesk HSM, FeatureCAM and PowerMill













Product Overlaps - Milling Capability

2D/2.5D Milling 3-Axis Milling 3+2-Axis Milling Simple Multi-Axis Milling



Product Overlaps - Multi-Tasking Capabilities

Basic 2-Axis | Mill-Turn & Turning

Turn-Mill



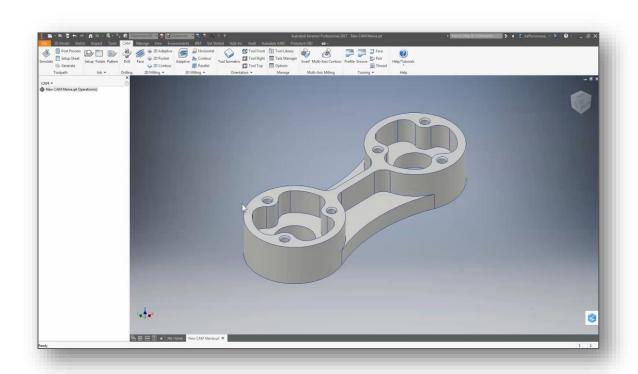




Autodesk HSM

- An Integrated 2.5- to 5-axis CAD/CAM programming solution for Inventor, SOLIDWORKS and Fusion 360
- High-Performance, yet entry-level system
- Because you work within your existing, familiar CAD environment, its *Easy to Use*
- Ideal for:
 - New to CAM
 - Face many design revisions



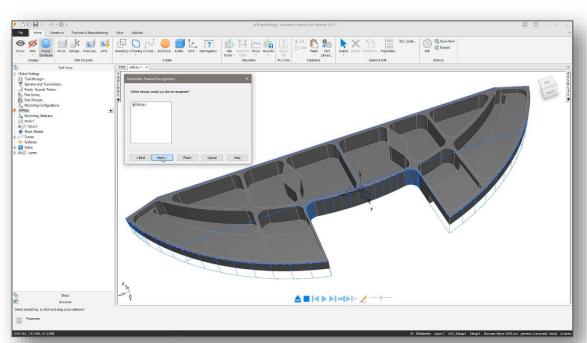


Autodesk FeatureCAM

 CAM software that automates the workflow from design to NC code, to reduce programming time and produce consistent results for a range of CNC machines

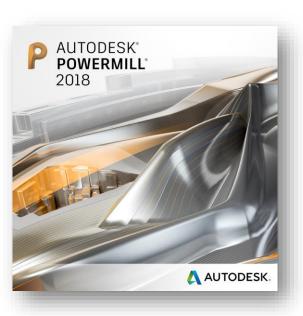


- Ease of use comes from automation, allowing parts to be programmed *Faster*, helping to meet delivery schedules and reduce time to market and cost
- Built-in *Intelligence* maintains part quality
 - Standardize practices
 - Promotes repeatability, minimizing risk
- Most Comprehensive Machining Solution



Autodesk PowerMill

• **Expert** CAM software for manufacturers of moulds, dies and highly complex components wanting to achieve the maximum quality, control and efficiency from their 3-and 5-axis CNC machines



- Dedicated to producing exceptional precision & quality
 - Remove the need for manual polishing
 - More higher value business can be won
- High degree of control & flexibility
- Trusted to deliver
 - Confidence to run machines unattended





Product Specializations Milling Capabilities

Integrated Advanced CAD

2D/2.5D Milling

3-Axis Milling

3+2-Axis Milling Simple Multi-Axis Milling Complex Multi-Axis Milling

Tool Axis Editing Toolpath Editing Specialist Strategies & Robotics



















Product Specializations Multi-Tasking Capabilities

Integrated Advanced CAD

Probing

Basic 2-Axis Turning Mill-Turn & Turn-Mill

Multi-Spindle Turning Multi-Turret Turning

Swiss Machining Sim. Multi-Axis Turning

Wire EDM















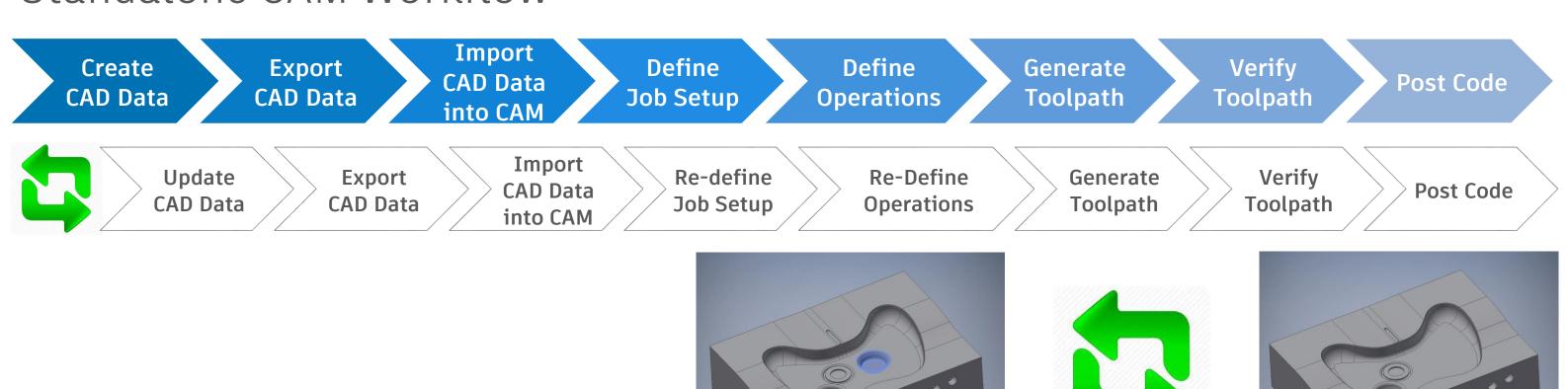




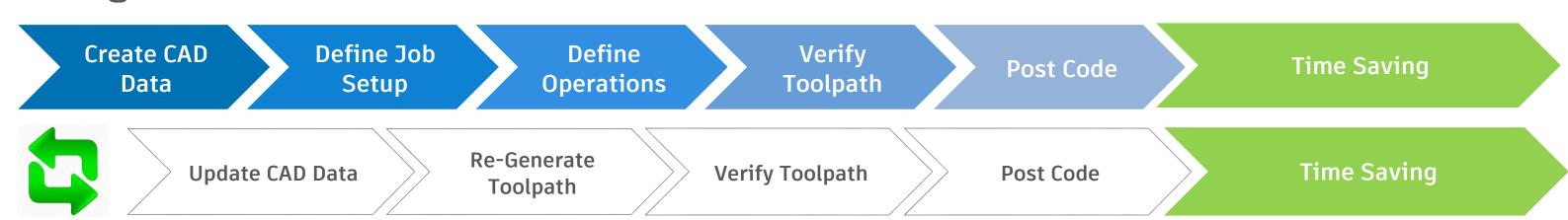


Why choose an Integrated CAM Solution?

Standalone CAM Workflow



Integrated CAM Workflow

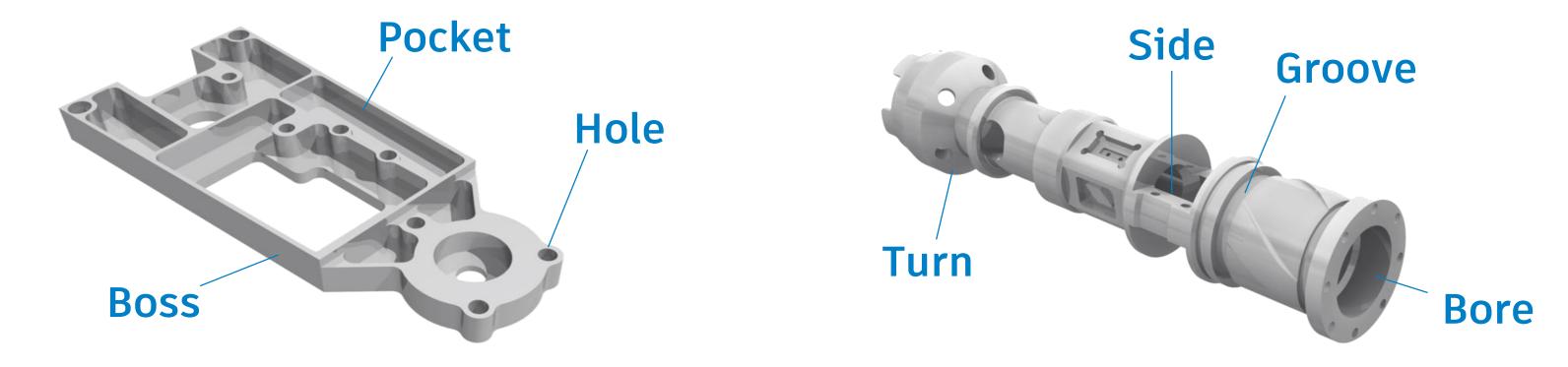


Technical Demonstration



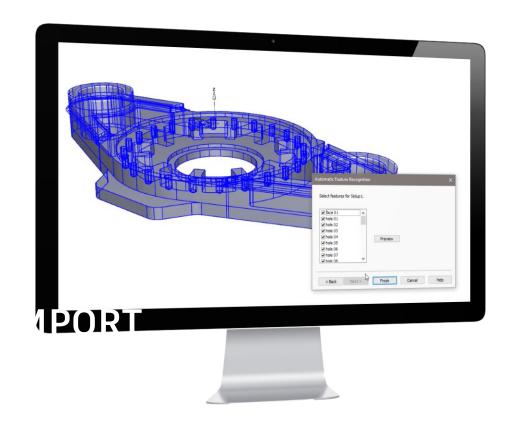
What is a Feature?

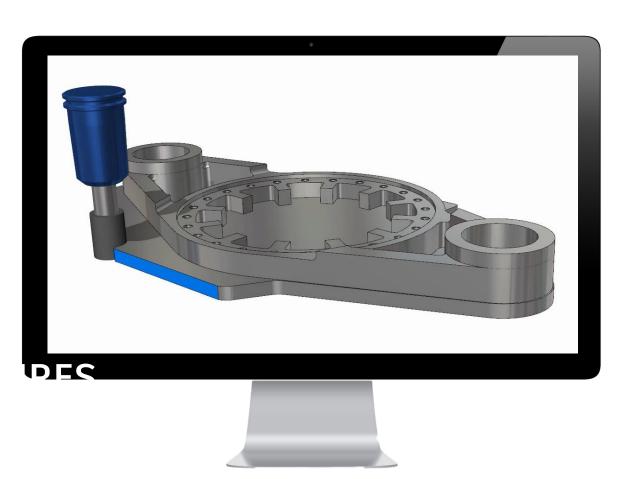
Instead of programming parts one operation at a time,
 FeatureCAM defines parts with features

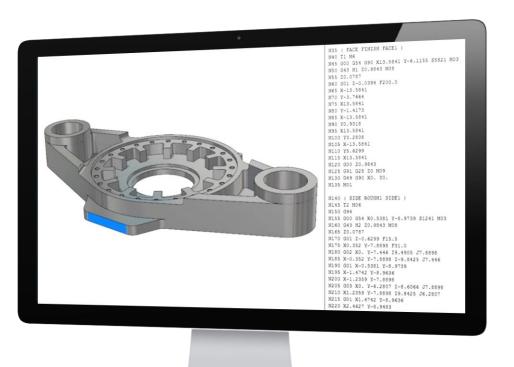


A feature is made up of one or more associative operations

Program Parts Faster



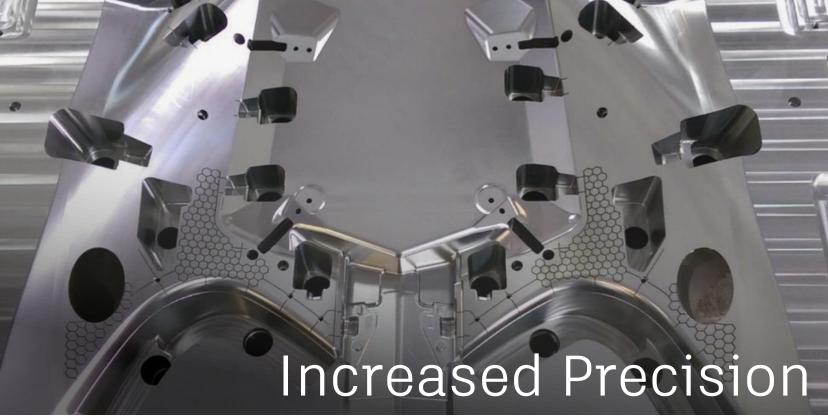




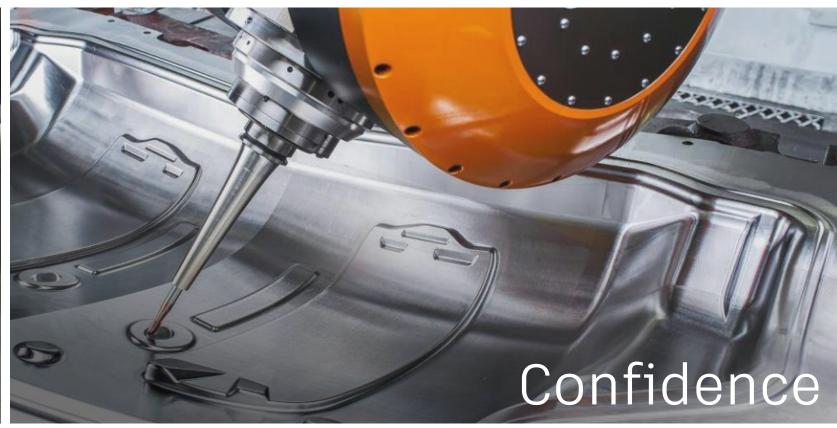
Technical Demonstration



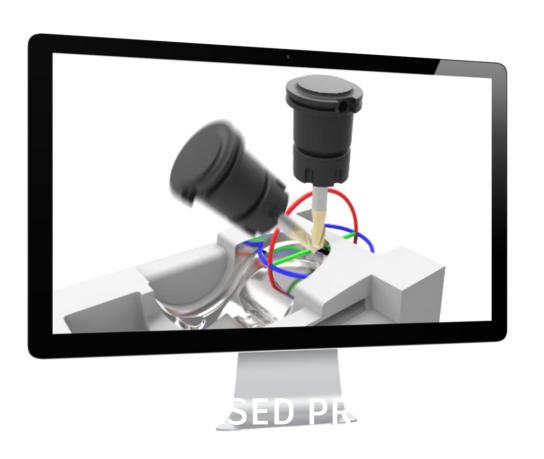








Expert levels of control and optimization







Technical Demonstration



Summary

Choosing the right CAM package will ultimately come down to...

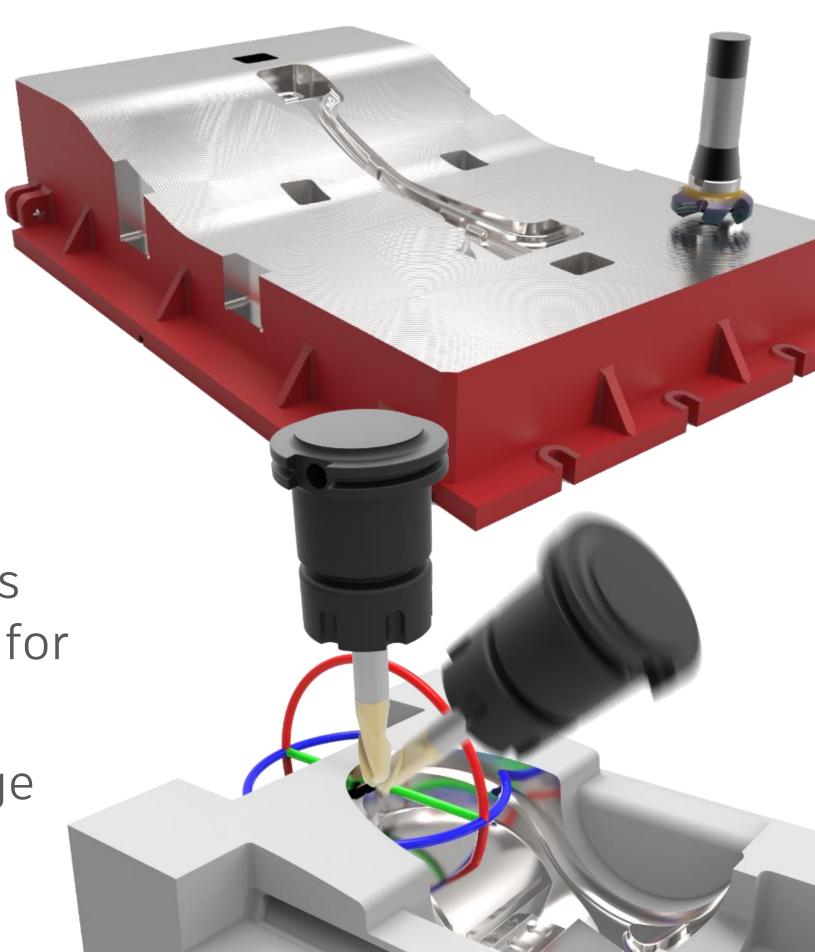






Summary

- Know more about Autodesk
 Subtractive CAM Products
- Know where each CAM product overlaps and more importantly specializes
- Know more about the types of parts and machines each package caters for
- Know that whatever your choice
 Autodesk has the right CAM package
 for you



Questions?

Thank You



Make anything.

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