

CAMWorks & HCL Technologies Industry Software Division

Robert Hutter, CAMWorks Reseller Manager EMEA



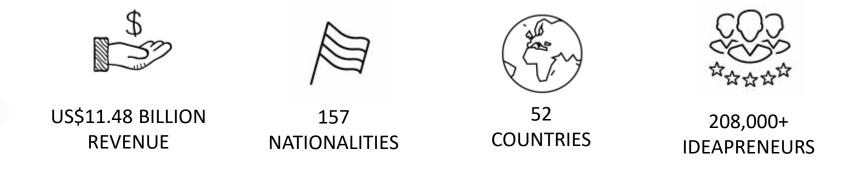


HCL Technologies



HCL Technologies is a next-generation global technology company that helps enterprises reimagine their businesses for the digital age. Our technology products and services are built on four decades of innovation, with a worldrenowned management philosophy, a strong culture of invention and risk-taking, and a relentless focus on customer relationships.

- IT and Business Services (ITBS)
- Engineering and R&D Services (ERS)
- Products and Platforms (P&P)



CAMWorks

HCL Technologies

Industry Software By HCL Technologies

Bulgaria's geographical proximity and cultural affinity to Central and Western Europe, a stable political and business environment, a large pool of multi-skilled workforce and a competitive environment for business operations have made it a preferred location for setting up a global delivery center. HCL has built its presence in Sofia, the capital city of Bulgaria.

Currently, HCL employs more than 1373* employees in Sofia.

Committed to the region, HCL is expanding its presence by investing in new, state-of-the-art global innovation centers in Sofia

*Data as of July 28, 2021



51 +1 COUNTRIES





HCL's Industry Software Division

Telecom & 5G

• Portfolio of Products for fully virtualized high-performing, low latency, network architecture



NFV Acceleration



iCE.X

Purpose-built for the multi/hybrid cloud IT landscape



HCL ANA



X-Haul

Enterprise Cloud

Optimus Intelligent Enterprise Suite – domain specific knowledge mining applications



Optimus intelliService



Optimus SmarTest



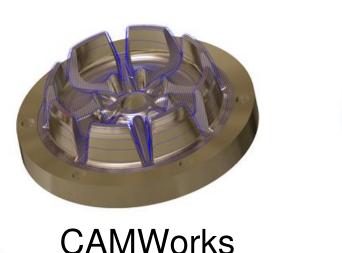




Manufacturing and Industry 4.0

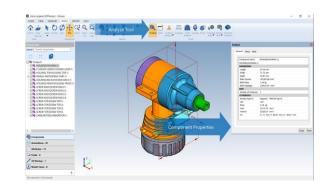


 Set of proven products for Design, Manufacturing and Visualization in the CAD/CAM/PLM industry





DFMPro



Glovius – CAD Viewer



CAMWorks History & Milestones

1996 – Prototype developed by Geometric under Teksoft Inc.

1997 – 1st Release / 1st CAM Gold Partner of Solidworks

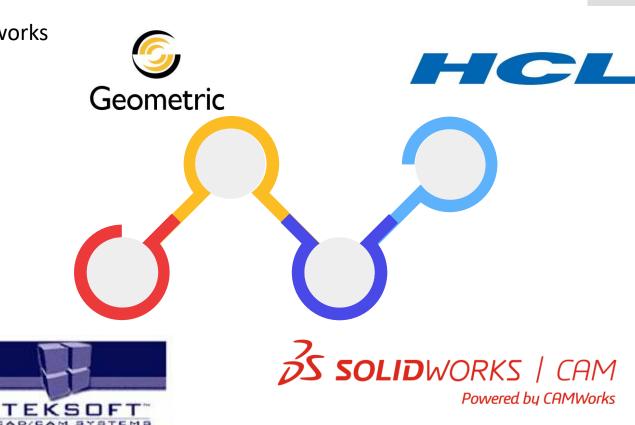
2000 – High-End 3 axis toolpath Core

2002 – 5 axis / Multiaxis Core

- 2005 Geometric aquires CAMWorks
- 2013 Virtual Machine

2017 – Solidworks CAM

2017 – HCL





Industry

Software

By HCL Technologies



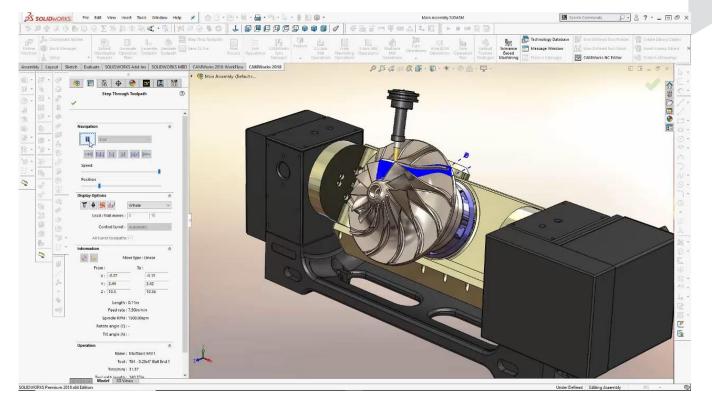
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• Fully Integrated in Solidworks

Integrated CAM

- No Data Conversion
- One File for CAD and CAM
- Supports Solidworks Configurations
- Works in Parts & Assemblies
- Stores Information for PDM
- Fully associative Data
- Automatic updates CAM Data on Part Change

Section CAMWorks





Feature based Machining

Industry Software By HCL Technologies

Feature Based Intelligent Machining!

What are Machining Features?

 Machining features include holes, pockets, slots, bosses, part perimeters, and more

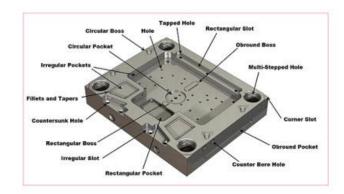
How are they different from Design Features?

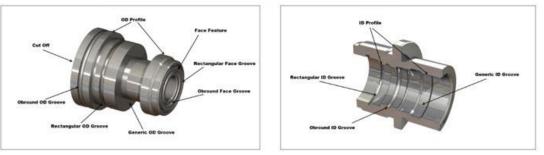
- Design features include extrusions, revolved, cuts, sweeps, and others
- Multiple design features and methods can be used to create a single machinable feature

Why Machining Features instead of creating operations?

- CAMWorks automatically programs over 20 different types of machining features
- Feature based programming is typically 80-90% faster than operationbased programming

Automatic Feature Recognition



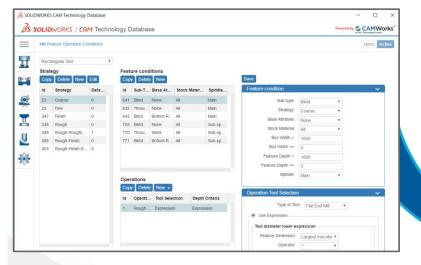




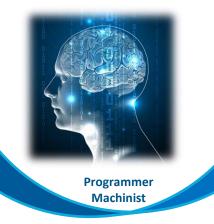
Knowledge Based – TechDB™

- Program it once and reuse it!
- Capture your best practices
- Save your machining strategies
- Your best practices are selected automatically

Use your rules to select your machining strategies, tools, feeds & speeds, and depth of cuts *automatically!*



Tech DB contains your Rules







Your machining best practices



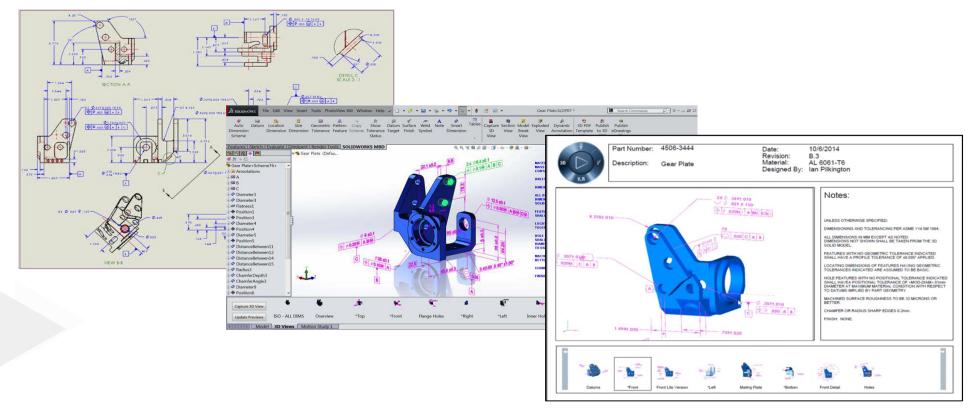


Tolerance Based Machining



What is TBM and how does it work?

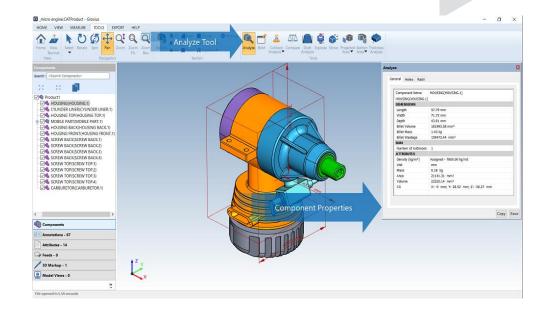
TBM reads the Model Based Design (MBD or PMI) data in the design model and automatically creates the Features and Operations to machine the part!



CAMWorks

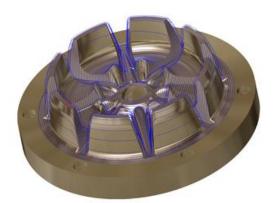
CAMWorks Shopfloor





Glovius – CAD Viewer





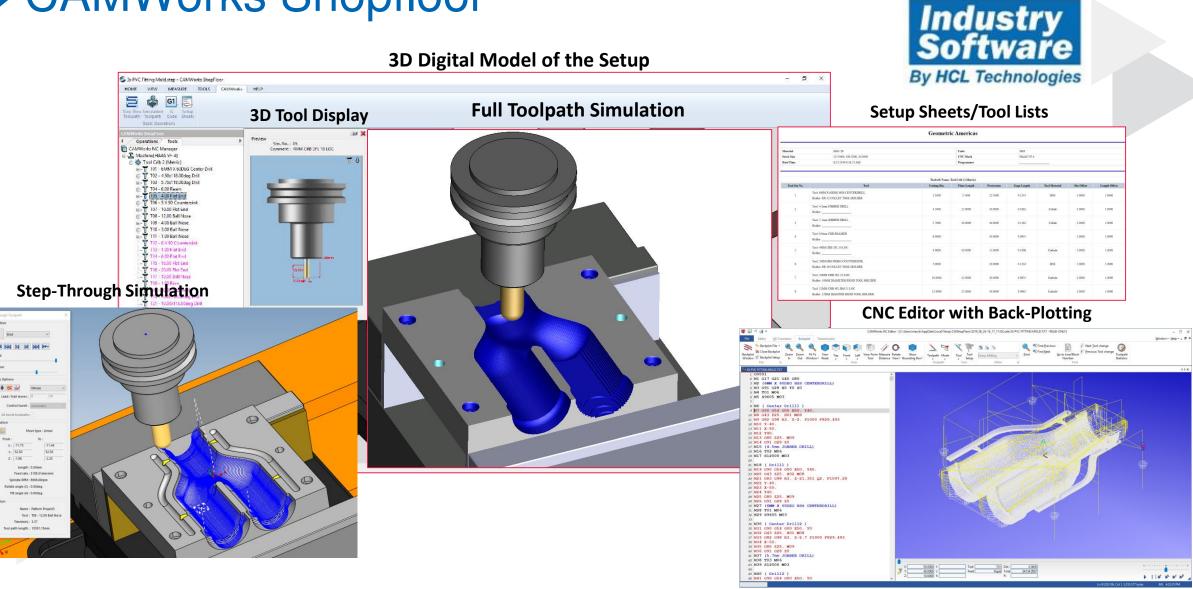
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DFMPro

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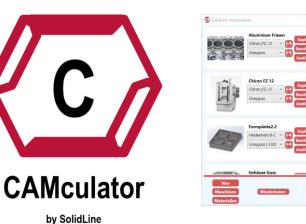
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Automation through APIs





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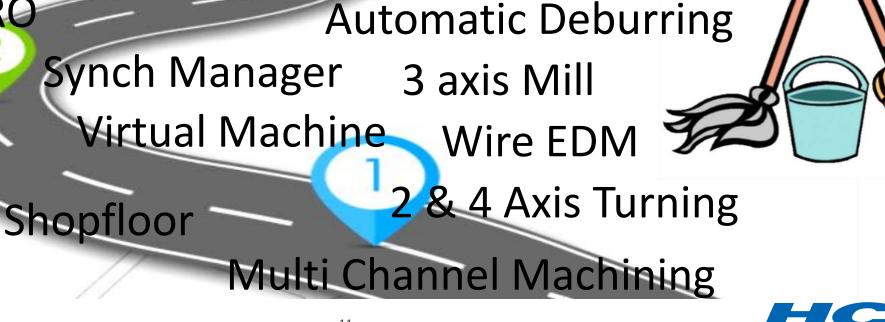


An HCL Technologies Product











Assembly Machining

Wire EDM PRO

What's Next

CAMWorks Shopfloor



Industry

Software

By HCL Technologies

HCL

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THANK YOU!

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