VERICUT®

CNC Machine Simulation

Cutting Speed Optimization

Program Verification

Inspection & Analysis

CGTECH.com

Who is CGTech?

- **Worldwide leader in CNC machine simulation and NC program optimization software with VERICUT®**

- **Privately held, established in 1988**
- **Headquarters in Irvine, California**
  - Offices in UK, France, Germany, Italy, Japan, Singapore, China, Brasil, India

Company Milestones

- 1988 Computer Graphics Technology Inc founded. (CGTech)
- 1994 CGTech UK
- 1996 CGTech France
- 1997 CGTech Germany
- 2002 CGTech Japan
- 2005 CGTech Italy and Singapore
- 2006 CGTech China
- 2008 CGTech 20th Birthday
- 2009 CGTech Brasil
- 2010 CGTech India

CGTech worldwide Revenue
(2001-2012)

(In USD)

2012 Worldwide Sales

$32.93 Millions

Sales by CGTech Geo Region

2012 Sales by CGTech Office

CGTech

- **100% in-house software development and support**
  - Core technology developed in-house by CGTech employees
  - No development or product support out-sourcing
- **Independently owned**
  - 100% self-financed
  - Consistently profitable and growing since 1988
- **Practical software solutions for manufacturing**
  - VERICUT simulation of multi-axis CNC machining centers
  - Also experienced simulating fabrication machinery
    - Drilling/riveting, laser cutting, water jet trimming, PKM machines, etc

Modig Powerflo
Continuous Ext
Machining

SMT Tricept Drill/Insert
Flow Robotic Trimcell
Waterjet-Router
Brötje/Modig Skin/structure Assembly

Customers

Worldwide diverse customer base

- Aerospace
- Automotive
- Marine
- Medical
- Consumer products
- Utilities, power generation
- Education
- Heavy industry & machinery

Customers

Who uses VERICUT? (who doesn't?) USA

Sikorsky
A United Technologies Company

Pratt & Whitney
A United Techn

GOODRICH

JOHN DEERE

HUSKY
Keeping our customers in the lead

Customers

Who uses VERICUT? (who doesn't?) Europe

Partners

Technology Partners

Ingersoll Cutting Tools
Olympia
Schütte
DIXI machines
HERMLE
EWAG
ELLIGON
SAACKE
CINCINNATI
OKUMA
starragheckert the milling experts
3Dconnexion
Mazak
FAMUP
Mitsui Seiki, USA
SECO
ANC
NUMROTOplus®
CIMCO Integration
POLYPLAN TECHNOLOGIES
Matsuura
SANDVIK
Seiki Systems
MORI SEIKI THE MACHINE TOOL COMPANY
nc Nicolas Correa
chiron
samag
HAAS
MAKINO
STAMA
unisign

CAM Partners

CGTech Products

MACHINE SIMULATION | MULTI-AXIS | OPTIPATH® | AUTO-DIFF™

VERICUT VERIFICATION

MODEL EXPORT | CNC MACHINE PROBING | INTERFACES

MACHINE SIMULATION

CUTTER/GRINDER VERIFICATION

CAD/CAM Interfaces:	
Pro/E	CATIA V5
Siemens NX	EdgeCAM
CATIA V4	PowerMill
Mastercam	TopSolid'Cam
hyperMill	WinTool
GibbsCAM	TDM Systems
CAM-TOOL	

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CGTech Products

Fibre Placement Programming

VERICUT Composite

Fibre Placement Machine Simulation

CGTech Products

VDAF Programming

VERICUT Drilling & Fastening (VDAF)

VDAF Machine Simulation

Why simulate?

How much are proof parts costing?

- Set up parts
- Scrap parts
- Broken cutters
- Wasted programmer time
- Machine down time
- Fixture problems

One example…machine time!

- 10 machines
- Run 12 hours per day
- €75 per hour for machine time
- 10% of time spent on proof parts

Proof parts are costing this shop €234k a year just in machine time!

3 VERICUT focus areas

- Verify part program
- Simulate machine tool
- Optimize program feed rates

All of the above!

Why use Verification software?

- Eliminate costly mistakes from getting to the shop floor
- Verify the NC part meets design model specifications
- Increase operator confidence
  - Less babysitting your NC machine
  - Less reason to turn down the feed rate
- Increase throughput on your NC machines
- **Better, faster NC programming**
  - Less time visually proving out the data
- Replace existing process
  - Single block, feed hold, prove outs, cut air, etc.

Why use VERICUT?

- Verifies the G-code data
- Verifies macro language
- Accurate in-process data
- Optimization of the NC program
- VERICUT doesn't "tie up" your cad/cam system like OEM visualization software does
- Great training tool for new programmers and machines

True Downtime Cost

Fitchett, Sondalini; True Down Time Cost Analysis - 2nd Edition

Why CGTech?

- Privately held and 100% self financed.
- Established in 1988
- World leader in NC verification
- Largest collection of CNC machining experts in the world
- Headquartered in Southern California with offices in 11 countries

The power of CGTech expertise is available to your company

Hundreds of articles published…

Read them at: cgtech.com/usa/products/articles-testimonials

What users say…

VERICUT®

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What Users Say About VERICUT

VERICUT User-Success Stories

Aerospace	Automotive	Consumer	Mold & Die	Job Shop, Tooling
ADI	Cosworth Racing	Jostens, Inc.	UCAR Composites	Brek Mfg.
Parker Hannifin	Chrysler	Tenneco Packaging	Minco Tool & Mold	Delaware Mach.
United Airlines	EXCO Engineering	Micro-Matic Tool	Wisconsin Pattern	BPS Industries
TECH Manufacturing	Competition Design	Composite Optics	Die Dimensions	Patriot Machine
Lockheed Martin		Ellstrom Mfg.	HS Die & Eng.	Accurate Stamp
JPL		PHILIPS		JK Machining
Aerostructures Hamble		Modern Industries		Reed Hycalog
Dowty Aerospace				Seco Tools Limited
Boeing				Gibbs Machine & Tool
Contour Aerospace				Schmiede Corporation
ProCam Machine				D&H Manufacturing

Read them at: cgtech.com/usa/what-users-say-about-vericut

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It can be this easy.

Two Final Questions:

1. Do you want to remove the prove-out process from the shop floor?

2. Does it make sense financially to do so?

Questions