Die Design and Build Standards

Die Design Tools to Help Ensure Correct Die Build
Agenda
We will look at…

• Avoidable pain
• Capturing the way you build dies
• Software that ensures holding your standards
• Eliminating NC errors
Cimatron is now part of 3D Systems

THINGS ARE GETTING BIGGER AND BETTER

As one of the early pioneers developing CAD/CAM software for manufacturing, Cimatron will continue its 33 year legacy going forward as part of 3D Systems.

Look forward to new opportunities for MANUFACTURING THE FUTURE!

For more information go to:
www.3dsystems.com
www.cimatrontech.com
MORE SOFTWARE SOLUTIONS WERE ADDED TO 3D SYSTEMS PORTFOLIO
END-TO-END SOLUTIONS
FROM DESIGN TO MANUFACTURING
Pain

Screw – not enough **thread depth**
Pain

Dowel Pin – hole cut as *slip fit* instead of *press fit*
Using Standards

Automatic size - position of guide pins and screws
Using Standards

Standard Components
Using Standards

Standard Plate Sizes
Using Standards

Materials
Using Standards

Punch Standards
Components
Rules

Length of plate determines number of screws
Rules

Plate thickness determines screw length and diameter
Standard Catalog Parts
Standard Catalog Parts

Knowledge of the hole
Standard Catalog Parts

Manufacturing attributes

Tapped
Automated Drilling
Automated Drilling

Assigning Sequences
Automated Drilling

Calculating Path
Automated Drilling
Automated Drilling

Light press fit

Manufacturing Attributes
Automated Drilling

Smart tool library
Automated Drilling

Post processing
Automated Drilling

Full machine simulation
Review
Did you see…

• **Avoidable** pain
• Capturing the way **you build dies**
• Software that ensures holding **your standards**
• Eliminating NC errors
Thank You!

www.3dsystems.com

Call: 248-596-9700