Ci Cimatron®

CAD/CAM Solution
for Die Making

3D SYSTEMS
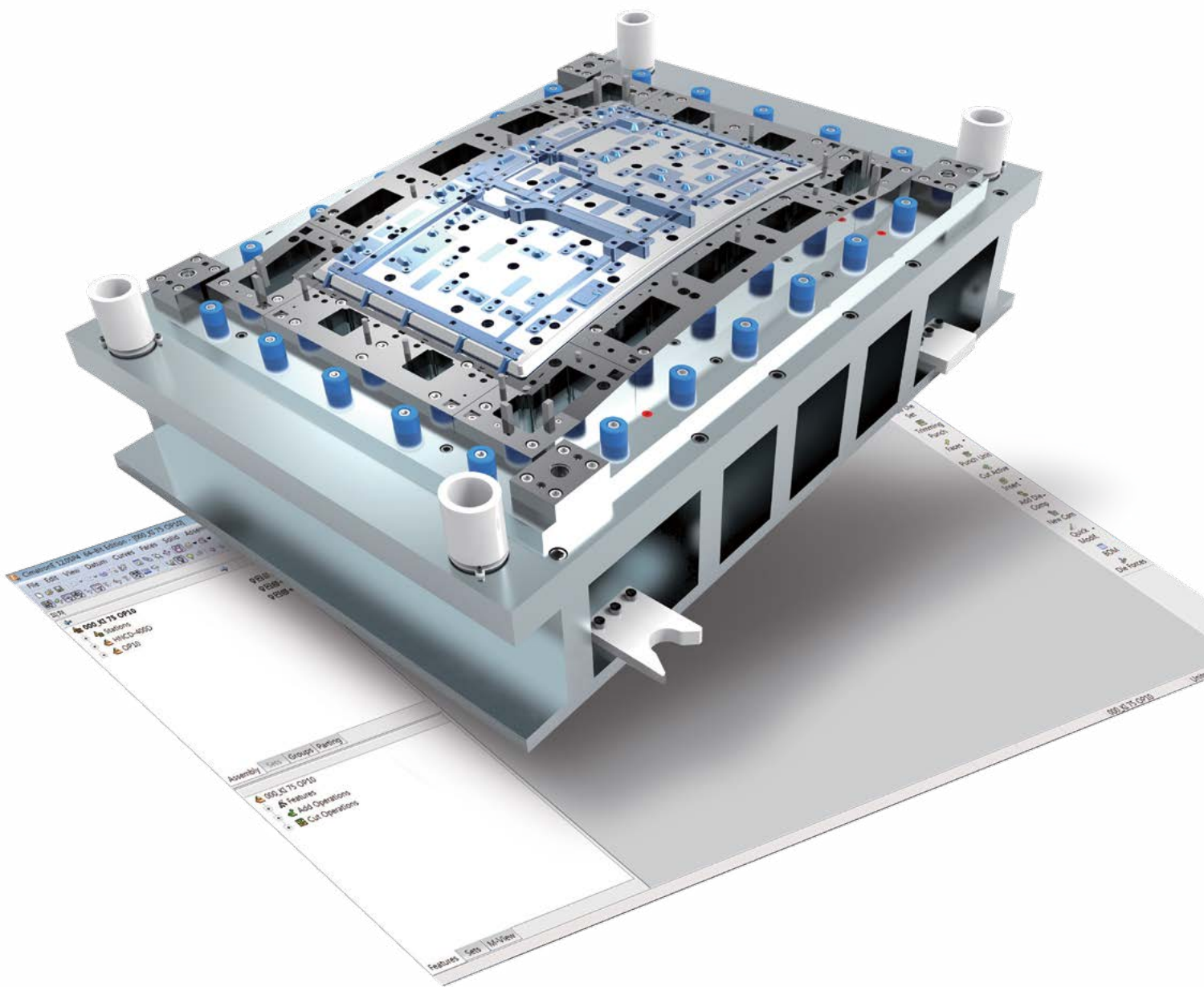
Ci Cimatron®

Cimatron is a single CAD/CAM solution, dedicated to die making. It enables you to deliver high quality dies in record time and produce dies of any complexity and size.

Data Import

- Start working immediately – heal and stitch data or work with non-stitched models and poor quality imported data.
- Import data from all standard formats, including mesh objects – DXF, IGES, STEP, VDA, Parasolid, SAT (ACIS), and SAB.
- Import, read and write Mesh Formats including STL, VRML, OBJ (Acrobat), PLY, 3MF, JT (read) with support for colors and textures.
- Use native formats – AutoCAD, Autodesk Inventor, CATIA, Creo, NX, SolidWorks and SolidEdge.

Quoting

- Use dedicated tools to extract design information.
- Extract accurate design data to Excel.

Blank Design and Die Layout

- Create and edit forming shapes, work in a hybrid solid-surface-wireframe environment.
- Utilize special geometric tools for bending, unbending, unfolding, and other forming options.
- Reduce the number of die tryouts using analysis tools for springback, safety zone, curvature, draft angles and nesting.
- Design the strip for progressive dies and separate stations for transfer dies in a flexible layout design environment.
- Apply engineering changes at any point in the project.

Die Tool Design

- Load an entire die set that is fully adapted to the requirements of your project.
- Easily design trimming and forming punches and matrices, using dedicated automated tools.
- Work with a large range of standard and user-defined catalog parts.
- Validate your design with measurement, analysis and collision detection tools.
- Create and reuse drawing templates incorporating customer specifications using dynamic multiple views and shaded views.
- Add BOM and table of holes to your drawings taking into account machining attributes.

NC Programming – 2.5–5-axis and Wire EDM

- Use built-in CAD functionality to add surfaces and contours, cap holes and slots, extend surfaces and apply drafts and rounds.
- Dedicated Plate Machining Seat generates efficient toolpaths for efficient roughing and high quality finishing with a range of 2.5–5-axis optimized machining strategies.
- Machine with confidence using material removal and machine simulations.
- Access a rich library of post-processors for 3, 3+2 position and 5-axis machines, and all leading controllers.
- Generate NC Setup and Tool Table reports automatically as you post process a program.
- Program Wire EDM machines in 2-axis and 4-axis wire modes.

3D SYSTEMS

www.3dsystems.com   www.cimatron.com