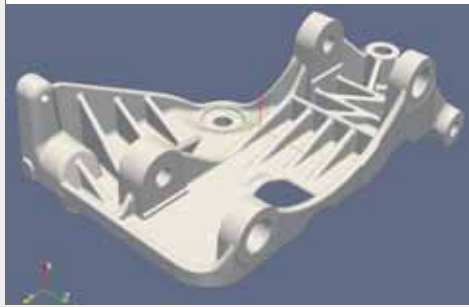


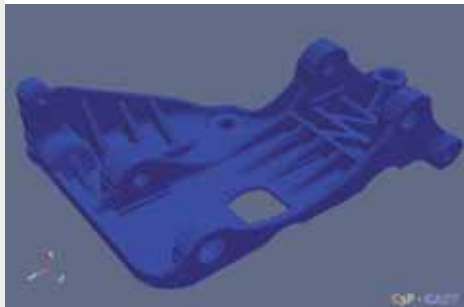
# GEO-DESIGNER

Powerful Upfront DFM Tool to Support Product and Manufacturing Design

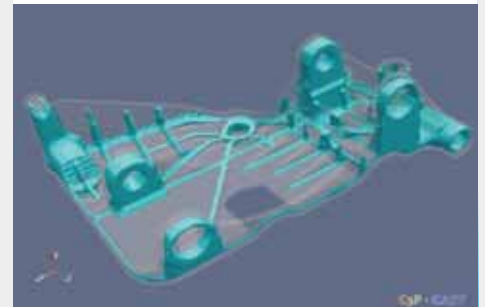
3 D part as start point



3 Clicks for a study



3 Minutes to get result



Mass Distribution

Wall Thickness

Riser & Gate

Cooling Rate

Draft Check

Fillet Radius

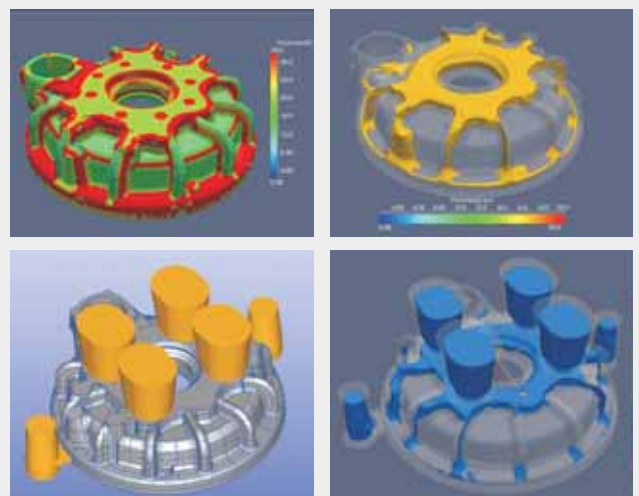
Weight Optimization

Geo-Designer, is a powerful upfront Design for Manufacturing (DFM) tools for designers and manufacturing engineers with innovative technology. It accelerates the design process for functions, manufacturability, enabling designs to move to production better and faster. Compared with other traditional tools, Geo-Designer is powerful, flexible, fast and easy to use and provides savings in downstream costs by quality improvement at the design stage. Geo-Designer offer a new method to study the part geometry in 3D Iso-surface with flexible transparently, it is similar the x-ray and CT method in industrial.

Geo-Designer can analysis the product thickness in ray method and the thickness level method. Users can select the analysis method flexibility based on the geometry of the part for improved results.

## Benefits

- Quick, easy, flexible and powerful way of checking design for manufacturing process
- Savings in downstream lead time and costs by improving quality at the early design stage
- Locates critical regions in 3D CAD models to help manufacture process design
- Improve design productivity
- Very easy to use, less than 30 minutes to learn



Geo-Designer Helps Casting System Design

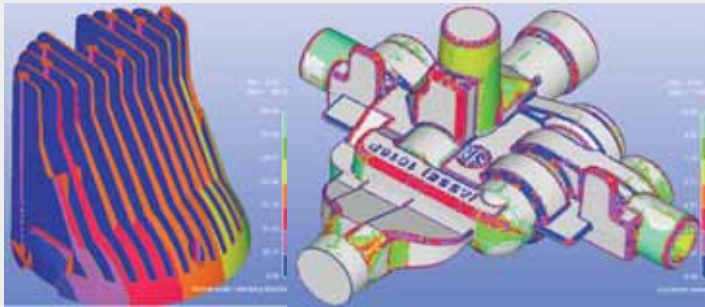
Geo-Design helps the designer to understand the thickness/mass distribution of the gravity casting parts . (upper left: thickness analysis upper right: Mass Distribution Index (MDI) of the thicker region) Based on the MDI results, riser and feeder for thicker zone could be designed to compensate the metal shrinkage, both the location and size could be designed as the guide of Geo-Designer. The lower pictures show the designed CAD model and the new MDI value after considering the riser and feeder.

Geo-Designer, provides a simple but very effective tool to support casting process product and manufacturing design, it cut at least 60% of design lead time, thanks the state-of-art technologies.”

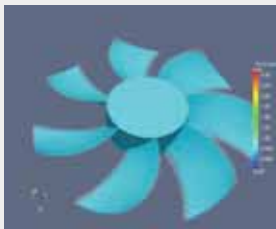
Prof. Z. Zhang, MSE, Tsinghua University, China



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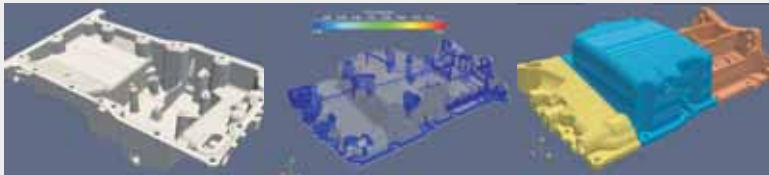


Draft angle and fillet radius checking for product design



### Fan Design

Weight reduction and mass distribution of fan are critical points. Which is the basic function and performance requirement.



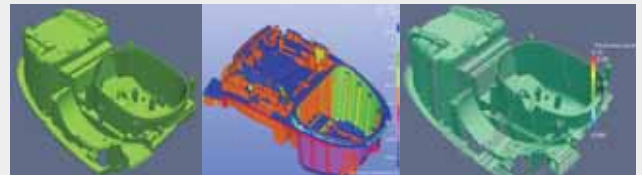
### Oil panel Design

Mass distribution, weight and thickness distribution of oil panel are very important. Thinnest and thickest thickness are critical points for product design.

(Left: 3D CAD model Middle: MDI to show the thicker region Right: Cast Zone analysis for gating system design.)

## Geo-Designer Features

- Standalone software, also possible to integrate into 3D existed CAD systems
- Build in last CAE technology for upfront analysis
- Checks mass distribution, wall thickness, Mass Distribution
- Index(MDI), cooling rate prediction on complete model
- Build in design capability
- Support 3D ISO-surface and multi-sections mode
- Ease in locating critical thickness areas
- Advanced visualization for easy interpretation of results
- Ability to clip model at any section
- Dynamic information display at point click
- Powerful filter mechanism to concentrate on region of interest. Detail information of analysis model: mass, volume, surface area, project area, heat modulus etc.
- Support contour, section, Iso-surface and curve
- Import STL, IGES, STEP file directly
- Design result could be exported to 3D CAD system directly
- Flexible report generation, VRML output
- Support language: English, Japanese, Chinese (T/S)



### Vacuum cleaner casing design

For complex plastic part, geometry checking is very important. Geo-Designer provides simple and effective way to check the draft angle, thickness distribution and other geometry properties.

(Left: 3D CAD model, Middle: draft angle contour Right: MDI for thicker region)

## About Us

With the combination of software development, advanced analysis, extensive product development experience and cost effective local human resources, C3P Engineering Software International Co., Limited provide industry and manufacturing business with comprehensive solutions and engineering services on a global basis to meet their expectation in high quality, on-schedule delivery within cost target. Our business scope covers software development, professional engineering service and application software integration. More info please visit: [www.c3p-group.com](http://www.c3p-group.com) | [www.cast-designer.com](http://www.cast-designer.com)

## Partnerships



Flyer Version: GEO\_2.1

### HONGKONG (Asia Pacific, HQ)

12/F AT Tower  
 180 Electric Road  
 North Point, Hong Kong

Tel: +852 2566 8109  
 Fax: +852 2234 5811  
 Email: C3PHK@c3p-group.com

### NEW YORK OFFICE

9631 Field Stone ct,  
 Painted post, New York, 14870, USA

Tel: +1 607 330 4772  
 Fax: +1 607 330 4776  
 Email: C3PNY@c3p-group.com

### Maryland OFFICE

3360 North Chatham Rd., Suite L,  
 Ellicott city, MD 21042, USA

Tel/Fax: +1 410 465 7865  
 Email: C3PMD@c3p-group.com

### SUPPORT CENTER

Unit 603, Info Building, No.111  
 Science Avenue GSC, GZ, 510663

Tel: +86 20 3229 3257  
 Fax: +86 20 3205 3354  
 Email: C3PCN@c3p-group.com