We Aim to be leading CAE service providers. At ICS we believe that we succeed only when our customer succeeds. Our total support, sincerity and responsibility until the final stages of projects has won us constant appreciation and we look forward to maintain this and improve on it
Introduction

- We are a team of CADCAM experts providing excellent, reliable and time bound CADCAM services for all your needs.
- We extend this expertise in execution of all our projects giving best design & tooling solutions for higher performance, quality and lower costs.
- Our CADCAM support is provided on [pro/engineer](http://www.proengineer.com), which is the latest high-end software package designed and developed by parametric technologies corp. USA.
- We use [pro/engineer](http://www.proengineer.com) which is fully parametric, associative, feature based, very powerful modeling tool and provides complete integration from design to manufacturing.
- Providing best quality services all under one platform in least time allowing our customers to introduce new products faster.
Advantages

√ Cut-down lead time
√ Produce quality product, in less time with us
√ Develop more complex products & solutions
√ You need not risk high investment in CAD/CAM still get high quality projects
√ Total confidentiality in all matter
√ We will work as a team as your long term technical partners
Why ICS?

- We at integrated CADCAM solutions have done numerous complex time bound projects for various corporate, tool and mould makers in INDIA.
- We have always involved in continuous interaction in every project assigned to us right up to the final tool delivery is made by our customer, eliminating problems and thus cutting down time.
- Right combination of experience and expertise.
- We work as a team with the customer. We are your technical partner.
- We have been providing services that are economical, reliable, better quality, and are time bound. Our work speaks about us.
What We Can Do for U?

• 3d modeling
• Product design
• Tool design
• CNC programming
• Electrode design
• Reverse engineering
• Training on PRO/E
3d Modeling

• The basic requirement for any part is geometry modeling. We do it on PRO/E. The best CAD package available on this planet.

• It's fully parametric, feature based and associative. Gives best quality surfaces, better interface with other packages.

• Allows faster modeling and implementation of changes.

Alloy Wheel modeled for high aesthetic

Cooler (main outer parts)
Product Design

- Development of part for aesthetic value
- Maintaining all technical, ergonomic, commercial requirements
- Ease of manufacturing
- Other special needs of the customers

Baby bath tub
Oil bottle 5ltrs
Mosquito Repellent
Product Design and Development

Complete project

Weighing machine

- Concept development
- Individual part modeling
- Study for functionality and ease of manufacturing
- Assembling parts in space
- Aesthetic enhancement
- Interference check
- Complete integrated activity from product design to tool manufacturing
Tool Design

- *For die-casting dies*
- *Press tools*
- *Injection moulds*

Experts for the job
- Time bound delivery
- Reduce cost of tool
- Ease of manufacturing
Tool Design

- Part modeling
- Core cavity extraction
- Sliders and angular core
- With drafts on all faces according to design
- Inserts ready for machining

Bracket for Ford
*Die casting die*
Tool Design

- Part modeling
- Core cavity extraction
- Sliders and angular core
- With drafts on all faces according to design
- Inserts ready for machining

Cam Shaft Support for Greaves LTD.  
*Die casting die*
CNC Programming
Taking Part From Software to Reality

- Optimum toolpath
- Gouge free and reliable
- Faster output, faster change implementation
- Toolpath for higher tool life
- Surface finish and accurate
- Professionals from the field & have done numerous projects successfully
CNC Programming
Taking Part From Software to Reality

CAM for core and cavity for die-casting
die for clutch cover for Hero Honda two-wheeler (splendor)
CNC Programming
Taking Part From Software to Reality

- Die-casting die inserts crankcase cover Hero Honda (splendor)
- Machining simulation in process
Electrodes

- Electrode design and modeling
- CNC programs for electrode considering spark gap
- Wire cut drawings
- Reference sketches for sparking with location and positional dimension
Electrodes

Electrode assembly exploded view for CORE INSERT of a die-casting die
Electrodes

Electrode modeled for ease for manufacturing

- Collars provided for electrodes to be CNC milled for holding in vice and during sparking
- Collars checked for interference. Relief on collars provided wherever necessary
- Surfaces extended out sufficiently from sparking zone to allow easy matching and sparking
- Electrode simplified to allow ease of manufacturing
- Neatly dimensioned drawing provided for location of sparking, position etc
Reverse Engineering

• With scanned data
  – From points clouds
  – Better surface quality allows better manufacturability

• Without scanned data
  – By taking only critical profile and measurable dimensions
  – Do 80% of job in this way save time and money
  – Use parametric Pro/Engineer to modify and enhance shape
Training on Pro/engineer
By the Expert Users!

- Expert users to train better
- Methodological approach
- Study material
- Design module and manufacturing module
- Practical approach for all problems
- Best practices and methods taught
- Individual as well customized corporate training available
Our Projects
See What We Have Done!!

- Appliance industry
- Automotive industry
- Consumer industry
- Others
Appliance Industry

- Handles for refrigerator (back and top view)
- Components for refrigerator (utility tray)
Appliance Industry

- Ice tray (refrigerator component)
- Utility tray (refrigerator component)
Appliance Industry

- Cover for vegetable tray (refrigerator)
- Exhaust fan
Appliance Industry

- Cover duct (refrigerator)
- Microwave control panel
Automotive

- 1) & 2) front and back view for gear housing component for BAJAJ
Automotive

- Sheet-metal component for Honda scooter
Automotive

- Clutch cover for hero Honda splendor
Automotive

- Crank case for hero Honda splendor
Automotive

- Alloy wheels
• Outer body for television (back & front)
Consumer Industry

- Pet bottles
Consumer Industry

- Household utensils (spatula)
Consumer Industry

- Showers
Consumer Industry

- Hanger for export firm made from samples/drawings
- Pedestal for chair
Consumer Industry

- Soaps
- Caps
Consumer Industry

• Seat-back cover for chair
Others

- Gas regulator (cold chamber die-casting die)
- 4-axis machining for part of capsule filling machine
ICS Will Be Always at Your Service

- Produce quality product, in less time with us
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INTEGRATED CADCAM SOLUTIONS
complete design to manufacturing solutions

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