



# Precise Global

Project Management



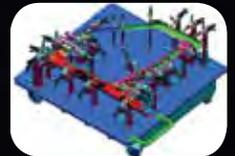
Prototyping



Machining Services



Automation



Mould and Die Manufacture



Product Manufacture



Commercialisation Assistance



**Concept To Production**  
**Your Advanced Manufacturing**  
**Product Commercialisation Partner**

**Precise Global** delivers manufacturing solutions based on a unique blend of engineering skills and services. The company comprises a group of highly experienced design, manufacturing, machining and tooling professionals who know manufacturing and the management of prototype, tooling, and product programs of all sizes. This knowledge has, in part, been gained through our exporting of tooling and products to Asia and the USA since the early 1990s. All of our team members have worked overseas extensively, in varied and demanding roles for prestigious brands and companies. This is the cornerstone of Precise Global – demonstrated experience in helping customers get their products to market quickly, efficiently, and cost-effectively.

Our services can be defined as seven vertically integrated disciplines which can be offered individually or grouped:

## **Project Management**

From single dies to entire programs of tooling, mouldings, stampings, fabrications and machined components, Precise Global Project Managers have the knowledge and resources to ensure that your project or product is completed within budget, at the desired quality, and on time.

## **Prototyping**

Rapid production of prototype and short run components is achieved by techniques ranging from CNC machining through to additive processes such as Selective Laser Sintering (SLS), Fused Deposition Modelling (FDM), and Stereolithography (SLA). Prototype moulds and dies can be offered, as can low-run fabrications.

## **Machining Services**

Precise Global commands the full range of conventional and CNC machinery, including EDM, Wire EDM, Laser, Water-jet, Specialist Grinding, and more.

## **Automation, Jigs, and Fixturing**

We offer automation solutions ranging from simple assembly fixturing through to robotics and in-process inspection.

## **Tooling**

A broad spectrum of tooling is manufactured, both in-house and with the assistance of our national and Low Cost Country (LCC) supplier base.

- Injection Moulds
- High and Low Pressure Casting Dies
- Stamping Tools
- Blow Moulds
- Vacuum Forms

## **Products**

Working in conjunction with our sister and partner companies, we deliver highly competitive components and assemblies to various industries. Manufacturing processes include injection and blow moulding, metal stamping, high- and low-pressure die casting, machining (including water-jet and laser cut), and fabricating.

## **Commercialisation Services**

This is a core competitive advantage, differentiating Precise Global from others. Precise Global works with your engineers, designers, and management to plot a course for the successful commercialisation of your product. We can assist with:

- Design for manufacture
- Completion of technical files for patent application and product registration/certification
- Identifying various State and Federal grants which may be applicable to your product or business.

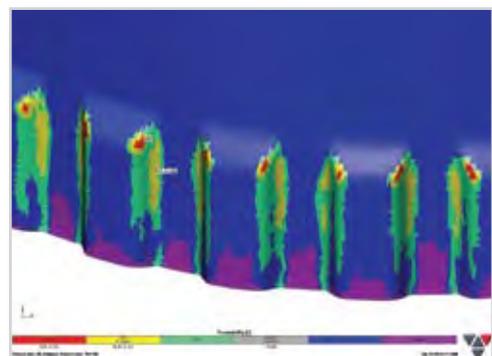
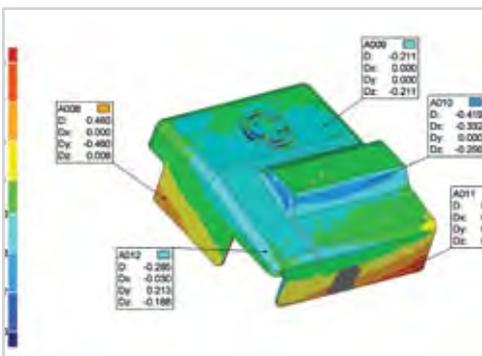
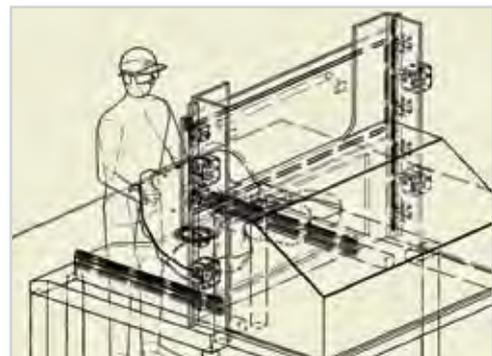
We are specialists in the use of metals, plastics, and specialty coatings; heat treatment of materials; conformance testing. Working seamlessly with our sister companies and validated suppliers Precise Global is committed to manufacturing in ways that ensure that our clients' products satisfy the most exacting quality control measures and are delivered on time.

Please take the time to review this brochure and gain an appreciation of the breadth and depth of the services that we offer. You will find that our services are unique and can help you to maintain that vital competitive edge.

We look forward to partnering with you in the future success of your products.



# Program Management / Design Engineering



The goal on every project is delivering real value to the client; fulfilling the contract on time and at quality levels which meet or exceed agreed expectations.

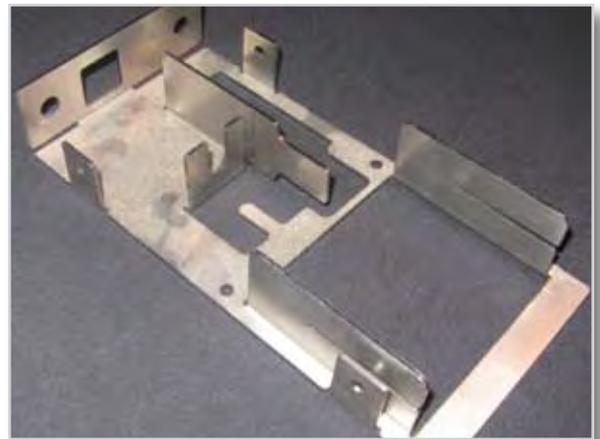
Precise Global staff have been selected based on the depth of their industry expertise, their serious Can-Do attitude, and their willingness to work together with their colleagues, our clients and our manufacturing partners to achieve excellent results.

Clients can specify the level of engineering that their project will require. In the absence of specific advice Precise Global engineering staff can suggest a number of approaches that, based on experience, they feel will achieve a successful commercial result. Via internal capabilities as well as external partner suppliers, we can offer:

- part design
- Design for Manufacture
- Tooling, Jig/Fixture, and Automation Design
- a full range of casting, moulding, and sheet metal flow simulations



**Speed to Market  
Input from Industry Specialists  
using a wide range of  
RP Technologies**



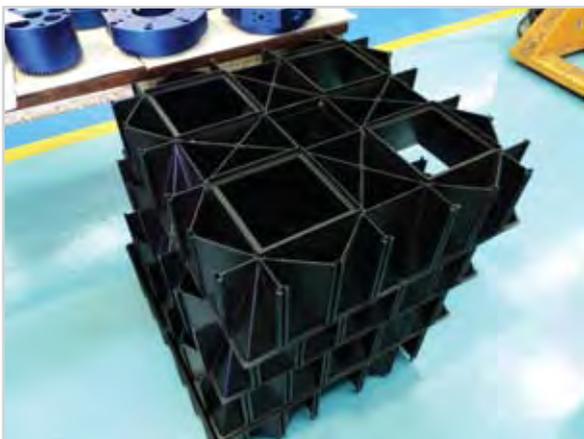
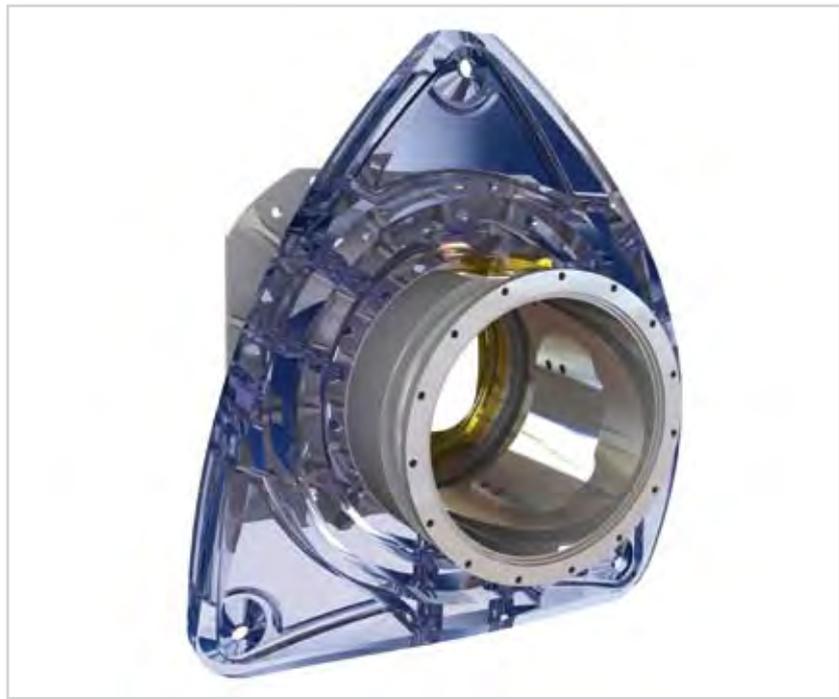
# Prototype and Pre-Production Product

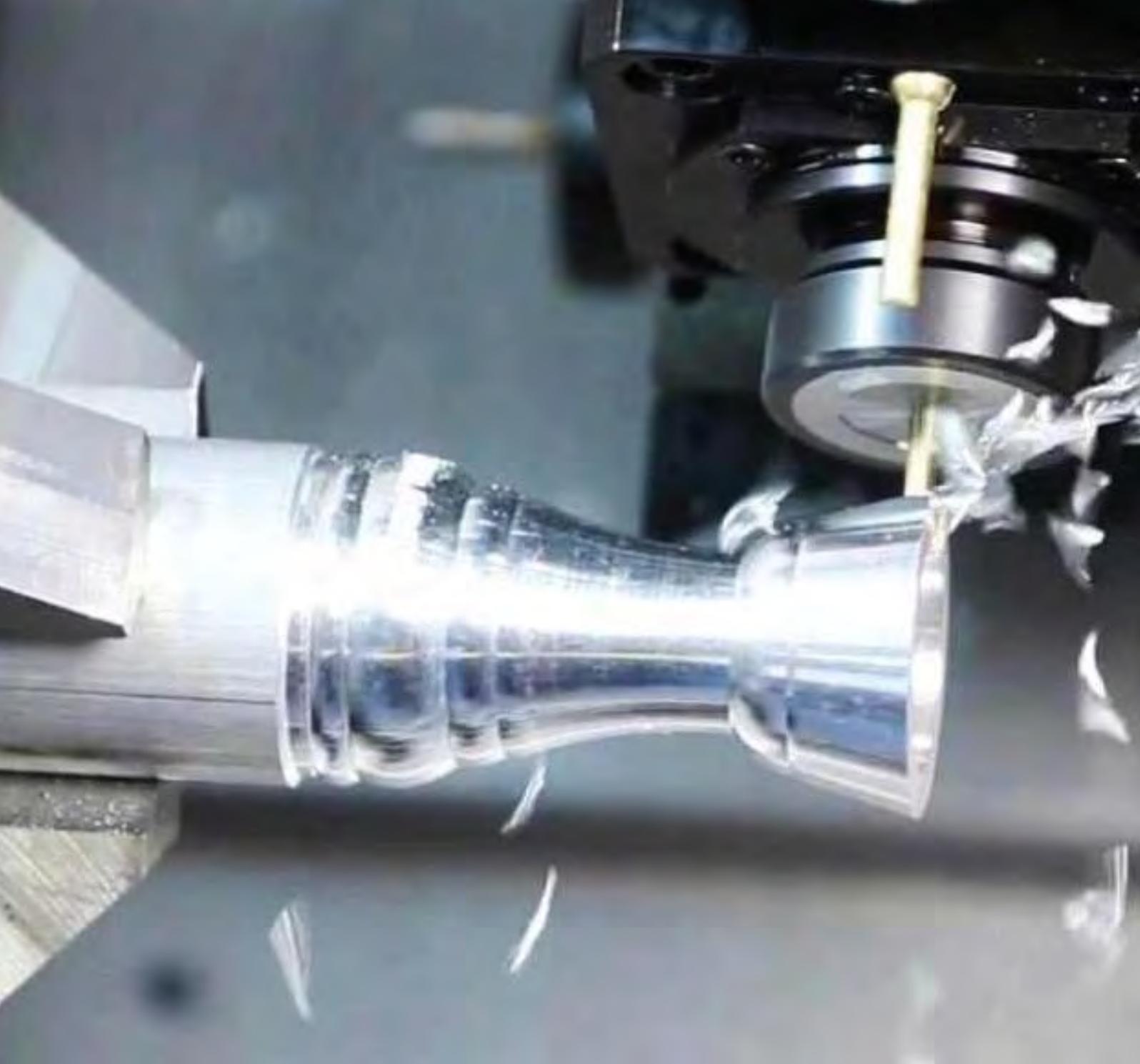
Let's say you have a concept design ready. There's no better way to evaluate your product than to see it "in the flesh". Our Prototype Division can produce your prototype components and assemblies in industry-leading times.

Precise Global understands Rapid Prototyping technologies. We will select and employ methods that best serve your project's prototyping requirements for:

- accuracy
- mechanical features
- functionality
- aesthetic qualities
- satisfaction of time and cost constraints

We can produce not only CNC-machined and additive process prototype components, but also prototype moulds/dies for beta-run production of parts. If the product requires subsequent painting, coating, or other finishes, we can organise that, too.





## Machining Services 0 - 1000mm



Precise Global supplies small-to-medium size machined components to an extensive list of national and international clients. We have an impressive internal array of precision machine tools, augmented by our close cooperation with our sister businesses, in particular, Quality Production Engineers (QPE). Add to this our list of trusted premium supply partners, and Precise Global can meet your needs with a host of machining techniques:

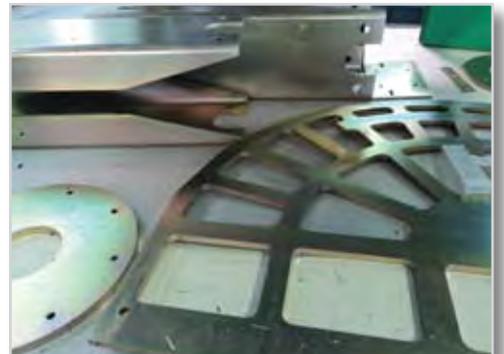
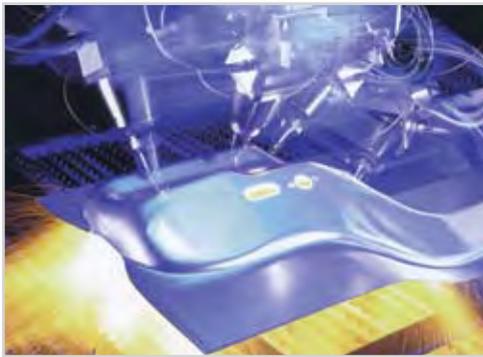
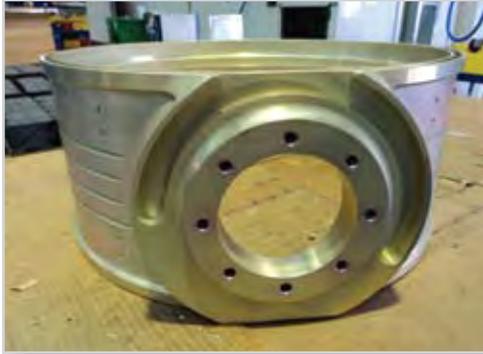
- 3,4, 5, and 7-axis CNC machining
- CNC EDM and Wire CNC EDM
- Laser cutting
- Swiss Turn Machining
- Water-jet cutting

Of course, many machined components that Precise Global supplies specify additional processing such as painting, electroplating, anodising, etc. Your products may contain straight machined parts or combinations of parts in various materials and finishes. Our experience with post-machining value-adding processes enables us to achieve cost-effective supply of finished product, no matter what your requirements.



001 Paces  
Total Force

## Machining Services - 1000mm plus

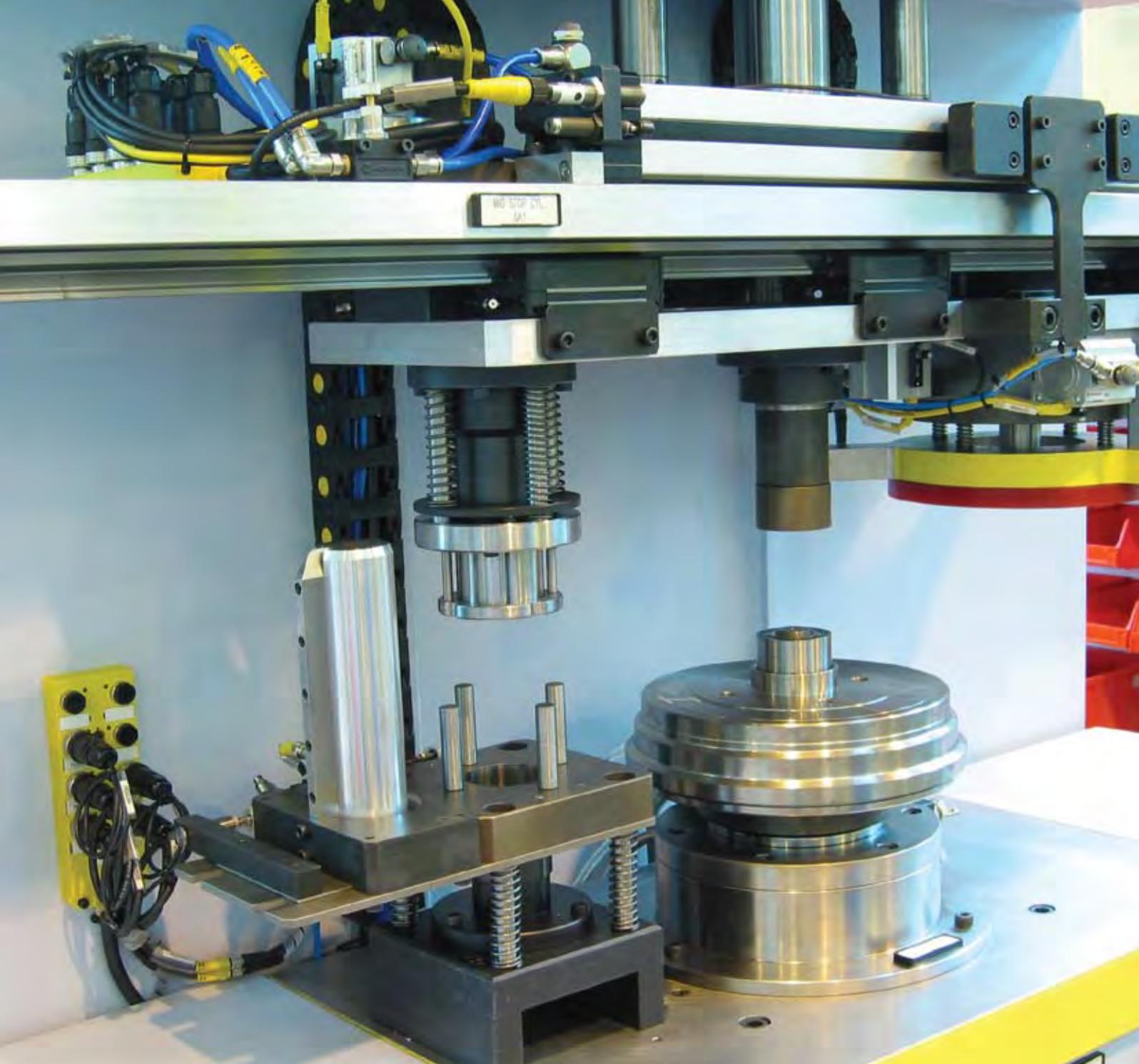


Precise Global satisfies customers' needs for large-scale machining with a variety of technologies, including:

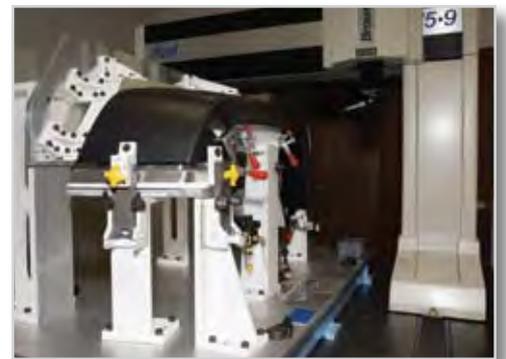
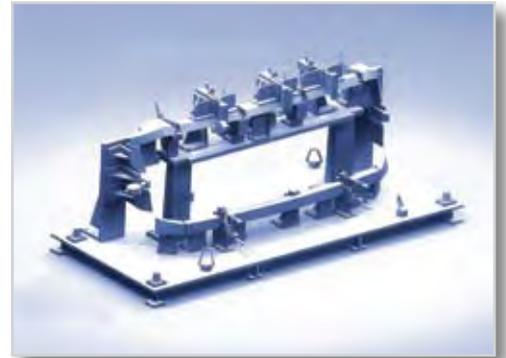
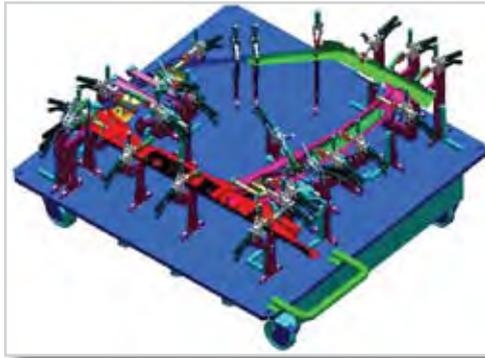
- laser and plasma cutting
- CNC boring
- CNC vertical and horizontal milling and turning
- grinding

Precise Global can supply from one-offs to production runs of large components and assemblies. If you want us to manufacture a really hard-to-get, expensive OEM part, no problem. Precise Global can take your design information or reverse engineer from the damaged part and get you back in operation.

Irrespective of the industry sector, Precise Global can match technology to your needs. If your requirement is outside of the norm, Precise Global will work with our suppliers to find a cost-effective solution. We are a Can-Do, progressive, customer-focussed business working in partnership with you to meet your machining needs.

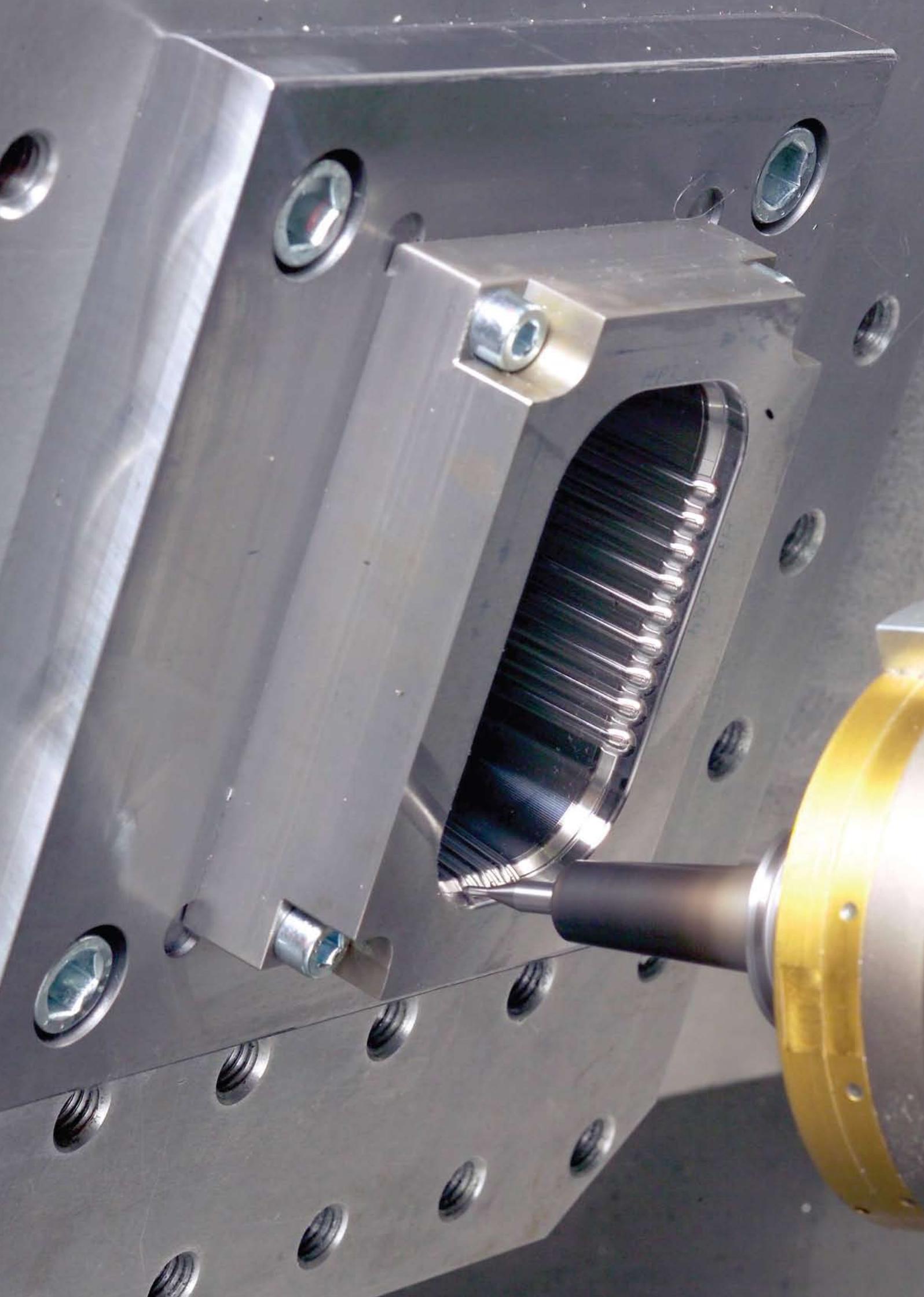


## Automation Jigs and Fixturing

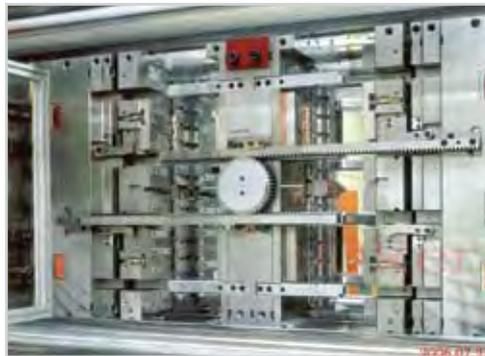
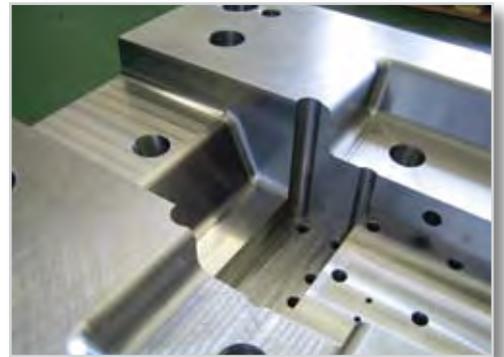
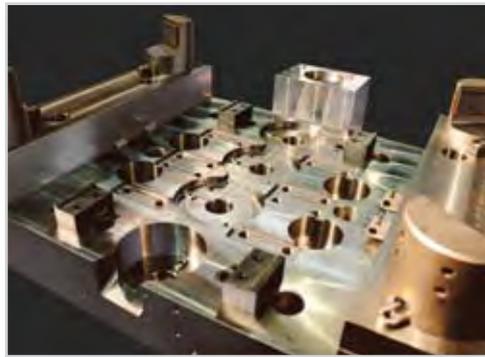
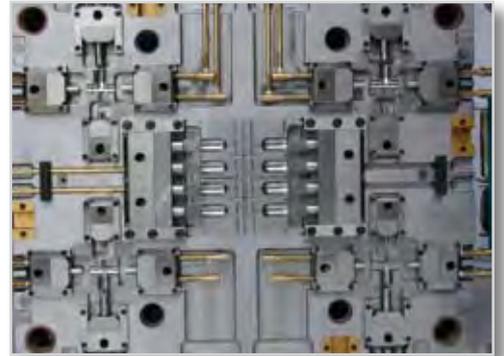


Precise Global provides innovative turnkey solutions for many industry sectors, including automotive, medical, aerospace, pharmaceutical, and food-and-beverage. Projects successfully designed, manufactured, installed, and commissioned include:

- check fixturing and gauging
- assembly jigs and fixturing
- automatic assembly machines
- automatic gauging and testing machines
- complex patterns for casting foundry use
- robotic handling



## Tooling - Injection and Blow Moulds 0- 3 tonne



Precise Global can design, manufacture, and project manage simple through complex injection moulds via validated Low Cost Region (LCR) supply partners.

With proven competitive strengths in automotive lighting, automotive interior, and whitegoods mouldings, Precise Global is now applying its expertise to supplying quality moulds to the medical, consumer products, and other industries.

Our staff has many years of international experience in auto-unscrew, two-colour, multi-daylight, and complex-motion moulds, as well as most types of hot runner systems.

Precise Global has, of course, an excellent facility and first-rate support associates, but it is the attitude and knowledge of our staff that makes us your best choice for mould supply.



## High Quality Moulds Relied On By Fastidious Customers



## Tooling - Injection, Composite and Blow Moulds Large



Over the past three years Precise Global's local and international client base for large moulds, particularly in the automotive sector, has grown steadily. In 2010 we delivered numerous large cavity-tooling projects for the Cleantech, Energy, and Consumer Product sectors. The same year saw completion, for clients in the US, of major multi-tool programs producing automotive lighting components which will appear on a range of 2011 BMW and GM vehicles. Automotive lighting tooling is amongst the most technically challenging in the industry due to the many complex tool movements required and the component design specifications for high levels of surface finish and dimensional accuracy.

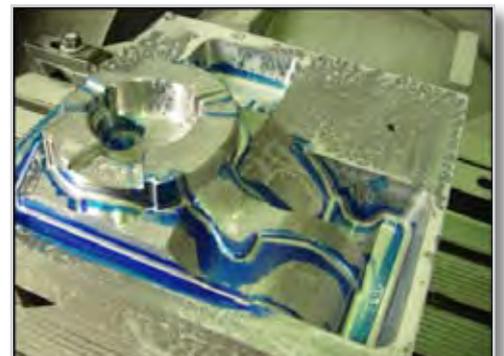
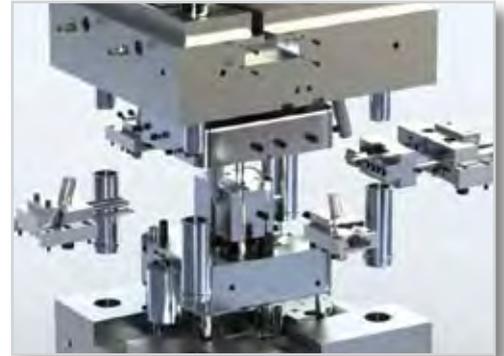
Other major programs delivered in 2010, all involving hot runner systems and most requiring photo etching of cavities, were:

- door trims/pillars
- instrument panels and clusters (IP)
- consoles

In 2011 Precise Global will ramp up its internal engineering capacity in order to keep pace with the demand generated by clients across a wide variety of sectors.



## Tooling - High and Low Pressure Die Cast



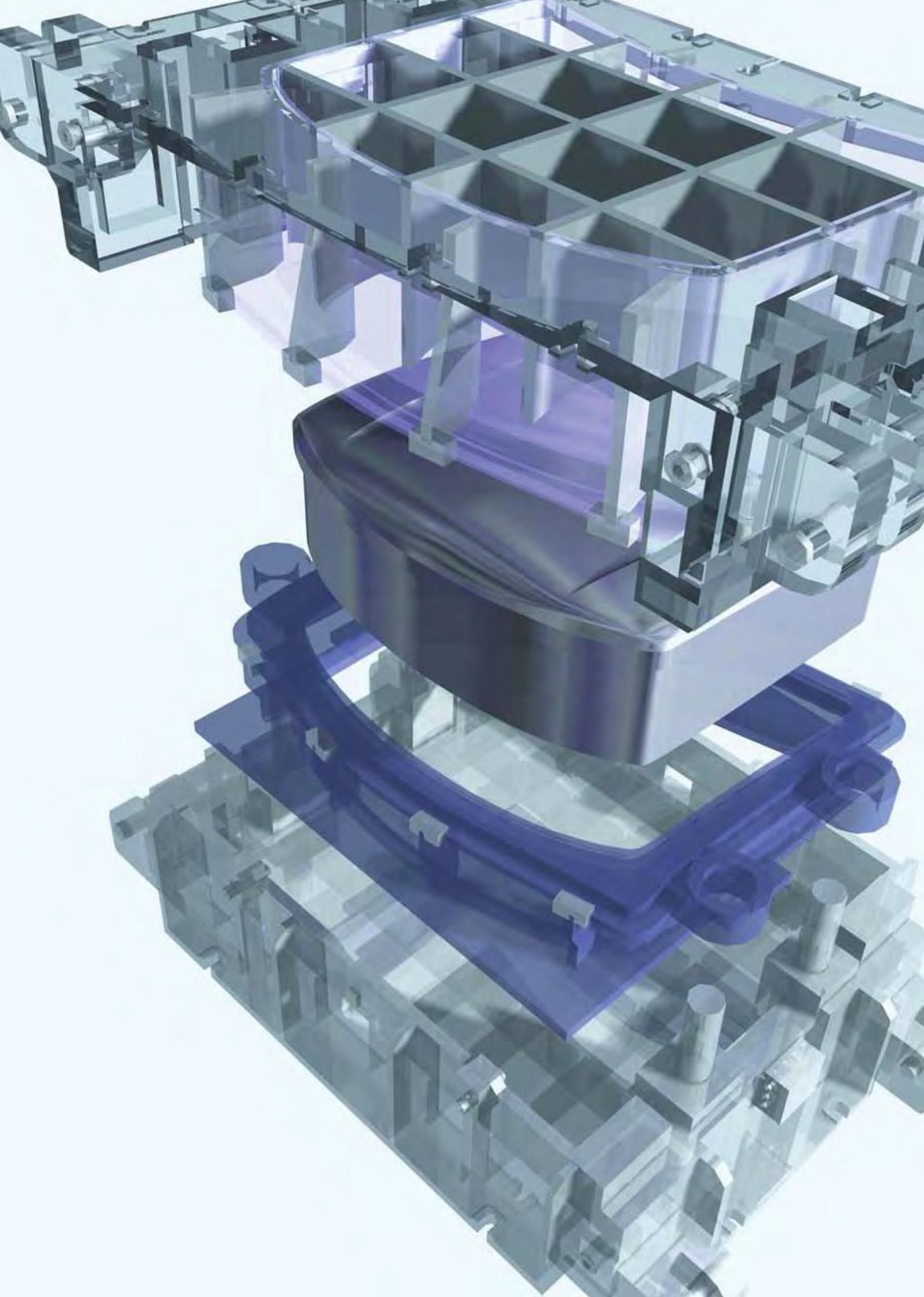
Precise Global staff have designed and manufactured the following types of casting moulds :

- High Pressure
- Low Pressure
- Gravity
- Sand Cast
- Investment
- Green Sand Patterns ( DISA / Hunter etc )

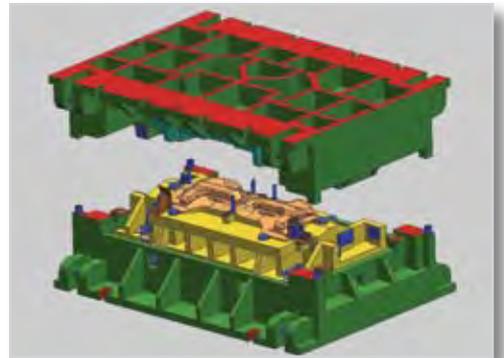
We have supplied casting moulds to US, Indian, Asian and Australian clients to manufacture the following products :

- Engine Blocks
- Cylinder Heads
- Cam Caps / Covers
- Automotive and Motorcycle Wheels
- Railway fasteners
- Medical Instruments / Devices
- Balance Shafts
- Suspension and Brake Components

From prototype to production moulds, benefit from our depth of casting mould experience.



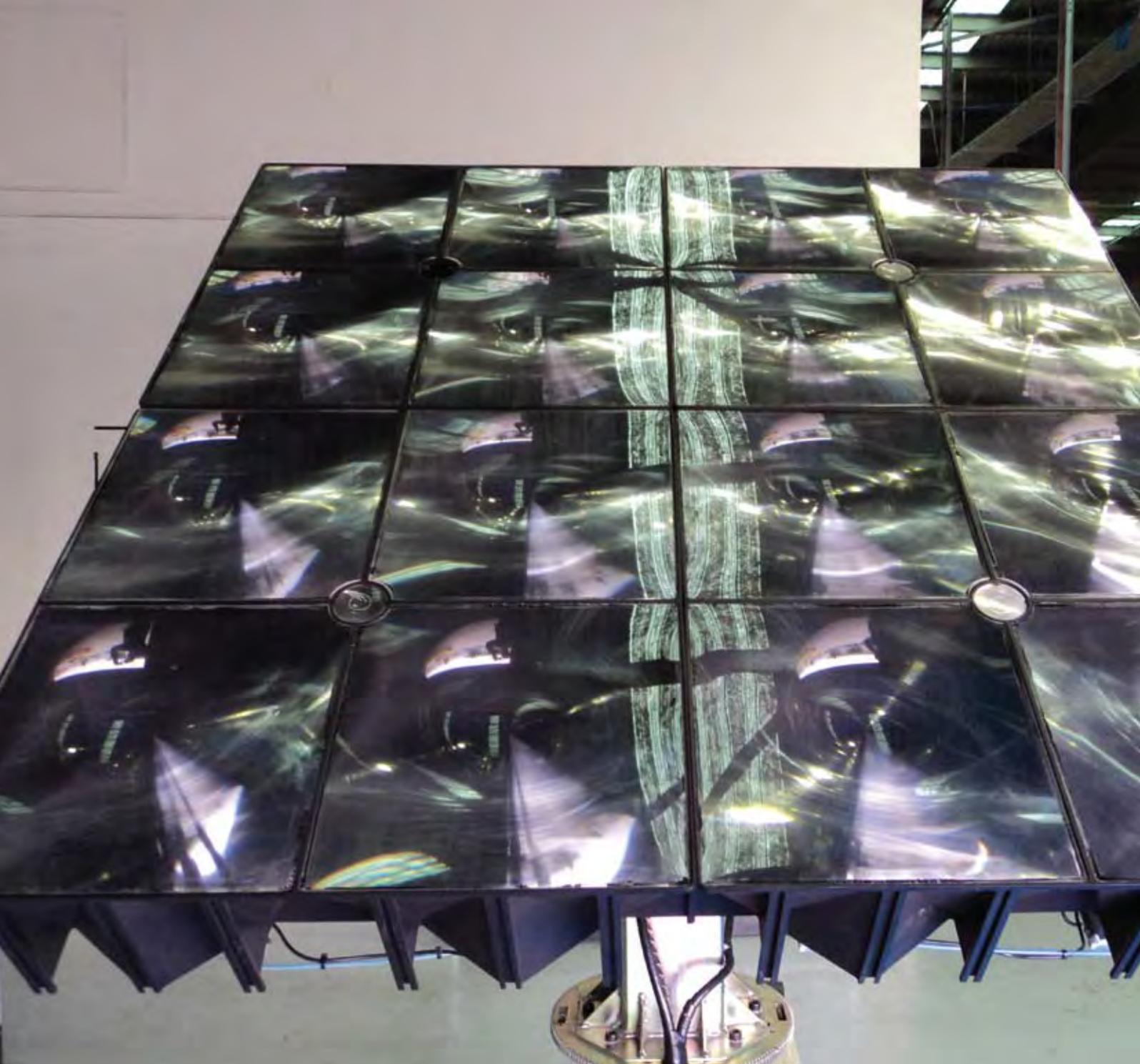
## Tooling - Stamping Dies



Precise Global is an experienced supplier of Pressed Metal Tooling, ranging from small press tools through complex progression dies and onto large automotive stamping dies.

Non-traditional industries, such as solar power, are increasingly employing mass production techniques. Our background in automotive stamping dies is proving invaluable in helping clients to develop their own low-cost, high-volume production strategies.

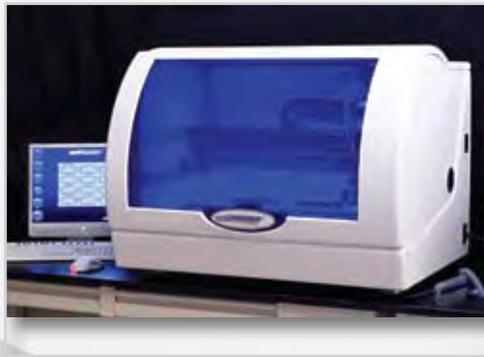
For complex components, such as those requiring forming and deep drawing, Precise Global runs CAD-generated metal flow simulations. This ensures that our tooling designs are sound and that the part can be produced sustainably.



Precise Global not only manufactures moulds for clients, but can, if requested, supply components and full assemblies. Our range of validated and approved suppliers means that we can supply exceptional pricing and maintain high levels of quality. Precise Global has several long term moulding / part supply contracts in place utilising both local and international LCR suppliers. The products we supply cover virtually the full industry range and include parts for :

- Medical
- Automotive
- Mining
- Water Industry
- Cleantech Industries
- Aerospace and Defence
- Consumer Products

## Moulded Components

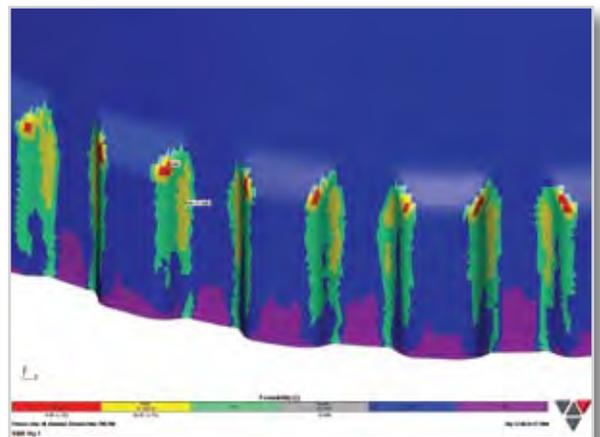


Our engineers have many years of hands-on moulding and mould commissioning experience. You can be assured that your products are not only produced by well-engineered moulds, but that the production process is thought through with the moulder, as well.

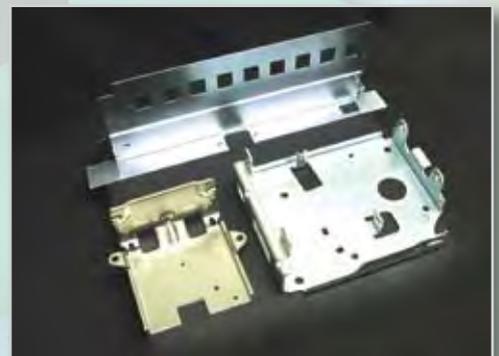
Many projects that Precise Global handles involve post-moulding operations, including:

- pad printing
- plating
- machining
- vacuum metallising
- assembly

Here, again, our supply chain management experience comes to the fore.



## Metal Stamped Components



Precise Global began shipping stamped automotive and furniture components to Malaysia in the early 1990s. Since then we have increased the types of stampings we supply as well as the industries to which we supply.

Your product may need fine tolerance stamped parts from transfer presses or progression dies; it may require larger parts from multiple pick-and-place tooling. Whatever the case, Precise Global has a solution for you.

Precise Global supplies quality stamped components to most industries as well as to its sister companies producing "own brand" products.

We are experienced in managing various post-stamping processes, including:

- electroplating
- powder coating
- galvanising
- anti corrosive coatings



## High and Low Pressure Die Cast Components



Precise Global supplies cast metal components to virtually all industries. From high-precision aviation and medical castings to prototype and production automotive castings, we have an enviable track record in supply of quality castings and post-casting processes such as:

- machining
- plating
- thermal treatment
- powder coating

Precise Global has excellent established relationships with local suppliers and with LCR suppliers in multiple countries. We will ensure that your product's quality and cost requirements are satisfied.

Our project team and tooling engineers are experienced in most forms of metal casting, including:

- green sand moulding ( DISA / Hunter Process )
- low pressure casting
- sand casting
- high pressure casting
- gravity casting
- investment casting



## Projects and Assemblies

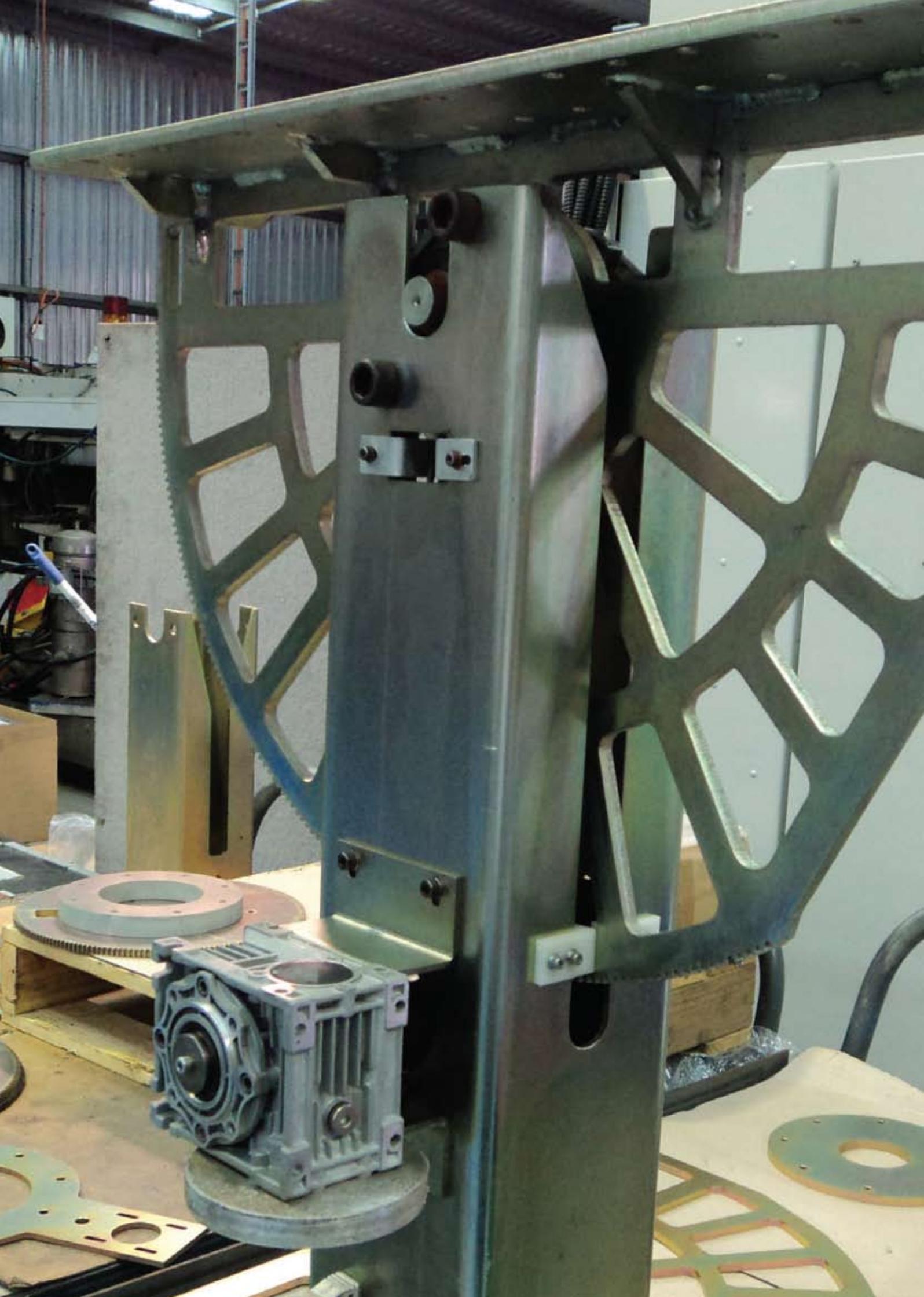


With in-house design and manufacturing capabilities, product knowledge, and the resources provided by our sister and partner companies, Precise Global can offer you seamless management of your next project's manufacture and assembly.

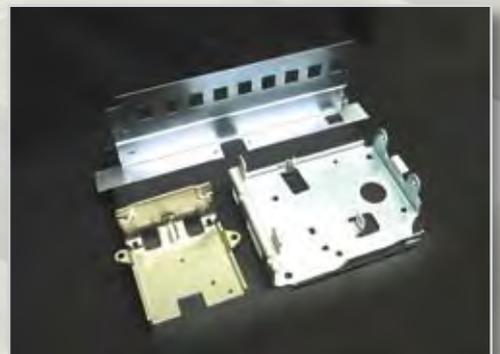
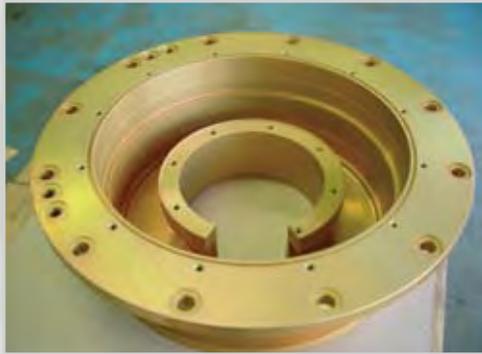
Disciplines overseen can encompass some, or all, of design and engineering, tooling manufacture, component production, assembly, product validation, and global shipment.

Recent examples include:

- manufacture of prototype components, production tooling and castings; machining and assembly of components for a US vending machine manufacturer
- manufacture of complete Medical Stretchers for the Australian and Allied Defence Forces
- manufacture of complete Solar Tracking assemblies for Australian and European clients
- manufacture and assembly of Emergency Clamping systems that enhance "Combat Survivability" of submarines and surface ships



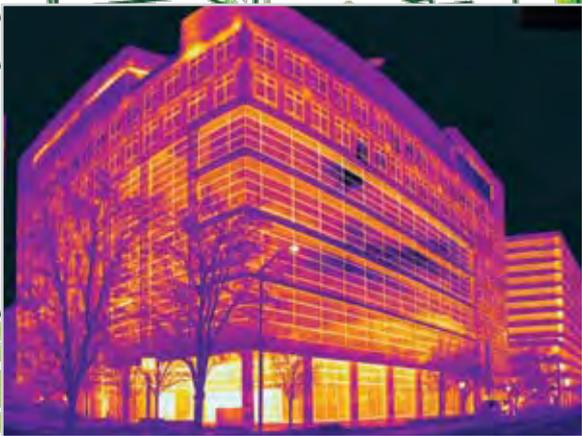
## Machined and Fabricated Components



Precise Global supplies a vast range of machined hardware and assemblies, produced to print, to our global customer base. Our ability to provide a full machining and fabrication service at consistently high quality is allowing us to grow this market sector against strong competition domestically and abroad.

Current products supplied include components and assemblies for:

- weapons guidance systems
- mine detection and neutralising
- positioning systems
- ground mapping/analysis systems
- fire control systems
- radar/infrared detection systems
- advanced communication systems
- military vehicle systems and replacement components
- mining industry exploration, extraction, and service systems
- renewable energy components, with particular expertise in 2-axis tracking systems



## Commercialisation Assistance

Precise Global's senior designers, project managers, tooling engineers, and management are involved with client programs and projects on a daily basis. We see projects from when they are nothing more than an idea and a rough sketch all the way through to them being a packaged product sold globally.

In all cases we work with our clients to deliver the very best, sustainable project realisation. This can incorporate any, or all, of the disciplines detailed earlier.

Being involved in so many projects year-on-year, it is inevitable that we have accumulated a large database on the steps required to take ideas and turn them into a successful product. Likewise, we have accumulated significant practical information on the various grants and assistance packages that may be available to assist you with your business and idea.

**Talk to Precise Global staff today about getting your next product to market faster and at a more competitive manufactured cost.**

**Ask us about assistance in accessing and maximising the various State and Federal Government grants that may help your business grow.**

A short list of current programs which we have assisted businesses such as yours in accessing includes:

- **Commercialisation Grants**
- **Research and Development Grants and Rebates**
- **Cleantech and Environment Grants**
- **Innovation Grants**
- **Export Market Development Grants**
- **Various Enterprise Improvement Grants**
- **Various Industry Sector Specific Grants**





## Precise Global

### Your Partner in the supply of Advanced Manufacturing Solutions

Precise Global look forward to assisting your business to get its components and assemblies to market. Since 1994 Precise Global has assisted global clients with tooling, automation solutions, machined and fabricated assemblies as well as complete manufactured and packaged components for a wide variety of industries.

We have accumulated an impressive client base and are proud of the trust placed in our business by many prestigious Global companies.

Precise Global and its sister engineering businesses offer seamless integration of Advanced Manufacturing services allowing our customers to reduce the time to market of their products and access the most cost effective solution for their product.

#### The Process

- Customers contact our technical sales team with their project information or in some cases just a concept.
- Precise Global staff will put together a proposal using the resources of the business and its sister companies to offer outstanding value across a range of services which you are able to access individually or as part of a package. Precise Global will assess at time of quotation whether the best value is achieved by manufacturing completely internally, by using our LCC partner companies, or, as we do in most cases, a blend between the two to ensure maximum value / timing value.
- As the order is received Precise Global staff work closely with our internal capabilities and external suppliers including LCC providers to ensure your project is delivered On -Time and to the quality you expect.
- At all times during the project our staff will keep you abreast of progress to timelines.

Precise Global has several exclusive manufacturing relationships in place for sole supply of product. These products include Medical, Renewable Energy, Water Industry and Defence.





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