



Welcome

Powergrade is an industrial product design and precision engineering company based in the West Midlands.

The company offers its customers a wide range of services and works pro-actively with its customers on product developments, improvements and enhancements. We offer:-

- Design
- Prototypes
- Precision Machining
- Precision Tool Making
- Presswork. fabrication and welding
- Small Batch Production
- Assembly Operations
- Reverse Engineering
- Testing

We understand the pressures on our customers and adopt a flexible and responsive approach in order to be able to meet their needs and be competitive.

We take a positive approach to serving customers, and because most of us have worked in major multi-nationals we understand the need to be:-

- Constantly improving service
- Innovative
- Stringent on quality
- Committed to delivery dates
- Flexible, reliable and responsive

Our customers are both UK and international and cover a wide range of sectors including:-

- Automotive
- Aerospace
- Food Processing
- Pharmaceuticals
- Transport

Expertise

Powergrade are a technologically advanced company who are consistently developing their product base. Powergrade's expertise as first tier suppliers to major organizations such as Ford, Jaguar and Rover automotive companies, means they have developed solutions to meet and exceed these fast paced industries and have developed in-house quality control procedures which ensure that products are always on time and always of the highest standard.

Design

The design process has developed immeasurably in recent decades with the onset of electronic technology and computer aided design systems. Powergrade have seen many changes over their 30 years in business and pride themselves on keeping abreast of the latest developments through an ongoing staff training program and investment in latest technologies.

Specialised Equipment

- Visi Cad – Full 3D CAD System
- Visi Machining – Full 3D Machining System
- Visi Split – Surface Splitting Software
- Fast Blank – Full CAD Blank Development Software
- 3D CMM – Axel Software

We work either to our in-house created design or to customer specification. Importantly we work with the customer to ensure that the tool is designed and made to fit both the customer's purpose and budget. So you get what you need.

We work in a press range from 12 tonnes to 150 tonnes and within this range we can make

- Blanking Tools
- Forming Tools
- Piercing Tools



Reverse Engineering

As part of our constant search to improve services to our customers we provide a reverse engineering option. This has proved attractive because it is cost effective and because we can:-

- Produce items that are no longer available
- Make products which need a cost effective upgrade
- Make products where the normal supply routes are ineffective
- Develop new solutions to existing ranges which refresh the range or change cost

An example has been our successful supply into the classic car market.

Prototypes

This is the core strength of the business. We provide a full service which covers:-

- Research and Development
- Modelling
- Assembly and Testing

Our engineers and toolmakers are all time-served and experienced through many years experience in supporting the automotive industry and can work from conceptual ideas to produce a fully tested manufacturing prototype, which can be used either for initial build or for limited batch production to test out product durability.

Bracketry

A specialism at Powergrade over the years has been our bracketry services, which are supplied to a wide variety of sectors. Brackets can be produce in any of the metals that we work with and to a variety of finishes.



Precision Machining

Our machine shop is staffed with trained and experienced technicians who are able to provide customers with a wide range of products to tight tolerances and a high class finish on our CNC machines

- CNC Milling Machine with Anilam Controller
- CNC Milling Machine with Fagor Controller
- Bridgport Interact CNC Milling Machine 800 x 350 with Hiedenhiem Controller
- Harrison Alpha 400 CNC Gap Bed Centre Lathe
- Colchester Triumph 2500 Gap Bed Centre Lathe
- Harrison V330 Gap Bed Centre Lathe, Model V330 VS 40"
- 1990 TOS Kurim FNK 25A Turret Mill c/w Acu-rite Millvision DRO, Quick change tooling
- 1995 TOS Kurim FNK 25A Turret Mill c/w Acu-rite Millvision DRO, quick change tooling
- 1999 Ajax Horizontal Milling Machine Model 1A MK V Table 1100 x 250mm c/w vertical head
- Jones & Shipman Model 1300 Universal Cylindrical Grinder 10" x 27"
- Heald Model 72A Internal Cylindrical Grinder
- Jones & Shipman 540 Surface Grinder
- Jones & Shipman 1400 Surface Grinder

With this equipment we work on a wide variety of industrial materials:-

- Mild steel through to stainless steel
- Aluminium
- Brass
- Copper

We are able to provide customers with batch runs which allows for flexibility in the production process.

Tool Making

The tool room is adaptable in producing prototype soft tools or production hard tools to either the customer's specification or to our own in house design. The range of tools can vary to fit our presses between 15 and 150 tonne and be either blanking, forming or piercing tools. Tools can also be manufactured to fit the customer's budget , batch quantity or press requirements.

Press Shop

The press shop utilises conventional power and hydraulic presses ranging from 12 to 150 ton capacities, facilitating a range of work from the prototype, small batch run through to production volumes. Facilities for assembly provide customers with a full service whereby they can receive pre assembled products if required.

- 100 Ton Mills Hydraulic Prototype Press
- 100 Ton Taylor Challen Power Press
- 150 Ton AME Power Press with Air Cushion
- 75 Ton Taylor Challen Power Press
- 40 Ton Bloxwich and Sweeney Power Press
- 12 Ton Bloxwich and Sweeney Power Press
- 80 Ton Armarda CNC Brake Press

- 2.5 Metre CNC Guillotine
- Various Other Power Presses
- Various Fly Press Facilities.

Quality Standards

Investment in equipment and facilities is mirrored by the investment in Powergrade's workforce. Powergrade recognize the value of training and maintenance of a skilled and experienced workforce and have built their reputation on their highly skilled, diligent, and committed staff. Powergrade's strategy for excellence in product production has been to acquire and train skilled individuals and to develop a permanent workforce, eliminating the requirement for sub-contractors and ensuring standards are never compromised.

Powergrade have attained the accolades of ISO 9001, ISO 9002 and ISO14001. They have facilities for ISIR and PPAP sampling on a CMM machine with full certificates of conformity. Quality assurance procedures are paramount to the organization and are key to the reputation that Powergrade has developed over the years. Powergrade have a dedicated quality assurance department that prepares and briefs new projects to the various production teams, and then is checked through again before dispatch to customers ensuring that all work meets exact specification.



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