

Automotive Catalysts

A comprehensive range of Cats, DPF's, Universal Cans and Direct Fits for the automotive industry

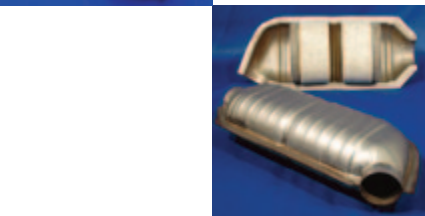
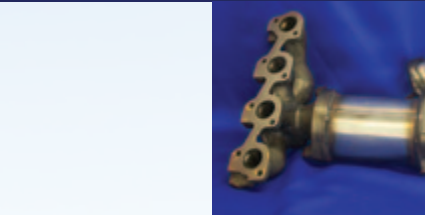
Cats & Pipes, a family business based in North Wales, has more than 25 years experience in the automotive industry and is the only aftermarket company in the UK with the capability to assemble and build a complete catalytic converter.

With a state of the art research, development and engineering facility the Company has worked continuously on a programme of product development resulting in a comprehensive range of products and services available to the automotive and associated trades. Heavy investment in advanced technology has kept the Company at the forefront of the aftermarket replacement industry and all products are manufactured from the highest quality components and are subject to rigorous quality control.

The Company runs a global distribution service and whether it is thousand's of units or a one off, the majority of products and services are available in timescales that will satisfy most requirements.



The complete solution for catalytic converters and associated services



1. Diesel Particulate Filters

Design & Production DPF (FAP) Technology

Cats & Pipes has developed a variety of DPF profiles which maintain the configuration required to manufacture an equivalent OEM replacement.

The range of direct fit DPF's has been designed and tested using the latest flow and emissions technology to ensure all units meet the latest Type Approval regulations and OEM equivalent specification. We control the manufacture and quality process for all our replacement DPF's.

A Cats & Pipes DPF offers the following:

- OEM equivalent using similar profile substrates
- Cordite and silicon carbide substrate (sic)
- Type approved DOC
- Coated DPF

We are also engaged in ongoing research and design on new coatings for SCR/DN_{ox}

2. Direct Fit Catalysts

Complete aftermarket catalytic converters

The only company in the UK to operate a complete aftermarket catalytic converter manufacture process Cats & Pipes offers a comprehensive range of Direct Fits and pre-catalyst front pipes. The on site emissions test facility allows the measurement of dilute gas concentrations to ensure all products meet with global legislative test cycles. The product range is constantly under review and updated to match the position and appearance of equivalent OEM's.

Benefits of the service include:

- A comprehensive range of DPF's including a tailored customer pattern production service.
- Catalytic converters manufactured from one source
- No reliance on the supply of universal units from other manufacturers
- Ongoing in house product development and testing
- On site homologation to speed product to market

3. Universal Catalysts

Universal cans available for manufacturers and distributors

Cats & Pipes offers a comprehensive range of catalytic converters visually similar to an OEM converter. The Company has developed the relevant tooling for canning production and this, combined with the latest CAD facility, allows pre-production modelling which highlights early on in the process any possible stress factors.

The Company has also designed its own metallic substrates which can be housed in the same shells as the ceramics. Ceramic substrates are canned with an OEM equivalent support matting, so increasing the service life of the product.

Many different variations of shells and cones are available to produce units for popular makes such as Audi, BMW, Mercedes, Opel, Renault and VW.

The universal service offers:

- 100/200/300/400/600 cpi
- Ceramic and metallic specifications
- OEM support matting
- High flow converters – round or oval for enhanced engine response
- Larger units available as a mantel – cone collectors can be added
- Components or canned units supplied to manufacturers

4. Wash Coating

A quick and reliable wash coating service

Cats & Pipes offers a wash coating solution to suit numerous applications and specifications. Clients can work in conjunction with the in house R & D resource for a solution to suit their specific requirements.

Cats & Pipes can wash coat from 50 - 1200 cpi using both metallic and ceramic substrates.

- A total manufactured catalyst system
- Virgin substrates
- Wash coated substrates
- Liquids for wash coating

Available for a variety of petrol, diesel and other systems are:

- High Tech Catalysts
- Euro I-VI Petrol/Diesel
- Higher Light Off
- DOC (Diesel Oxydation Catalyst)
- Nox Trap
- DPF (Diesel Particulate Filter)
- CNG, LPG

5. Research, Development & Homologation

One stop R & D and Homologation Type Approval service

A state of the art R & D facility and research team provides the experience and technical knowledge to allow Cats & Pipes to stay ahead in an increasingly legislative and technically demanding market. This service is also available to other manufacturers requiring assistance in this area.

The R & D and testing facilities available are:

- Homologation Service including emissions testing, system analysers, rolling road, engine and chassis dynamometer and computerised road simulations.
- Research into new metallic and ceramic substrates
- Quality Control available to third parties to ensure conformity of product

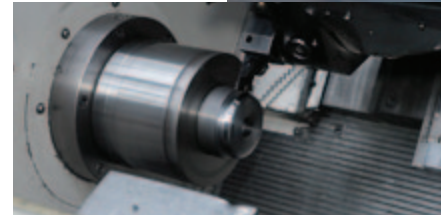
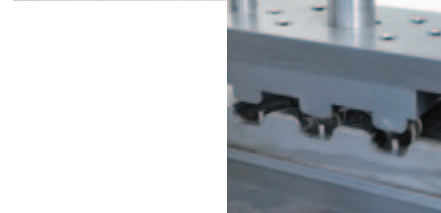
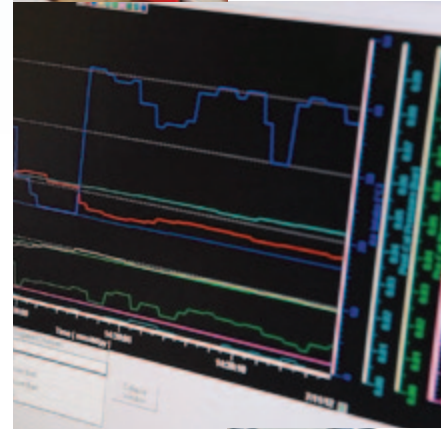
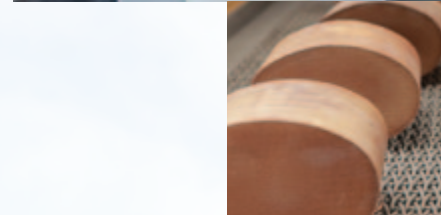
6. Engineering Division

A precision engineering and tooling service

A skilled and dedicated engineering based workforce allows Cats & Pipes to offer the following services on a sub-contract basis:

- Turning, milling, grinding, slotting and drilling
- Welding and plasma cutting
- Tube manipulation and fabrication
- CAD CAM facility
- CMM Inspection
- Shadow Graph Measuring

Historically the Company has provided services to the Construction, Dairy, Chemical and Pharmaceutical as well as the Automotive and Tooling sectors.





Global distribution service - most products and services are available within timescales to satisfy all requirements.



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