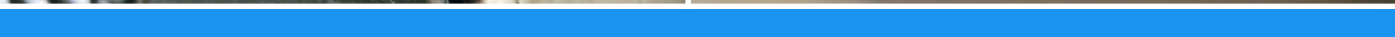
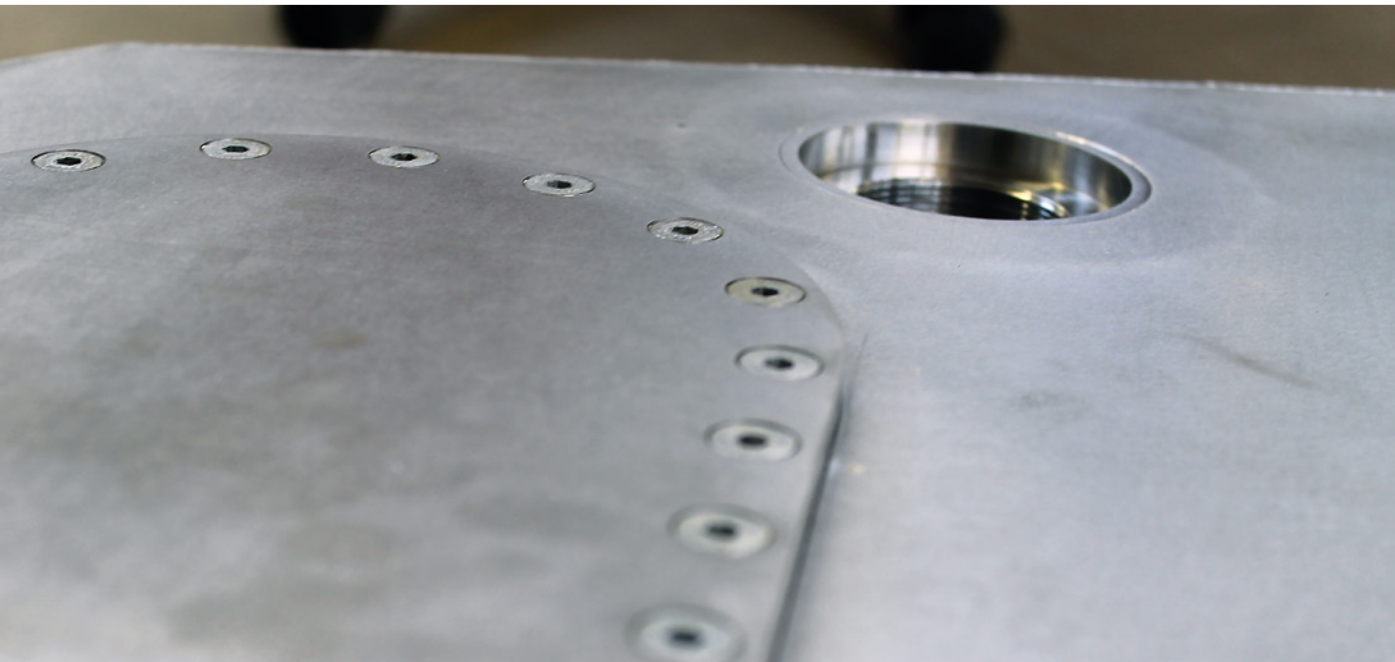


Excellence in precision engineering  
Aerospace | MOD | Automotive



# Excellence in precision engineering

Aerospace | MOD | Automotive

## Are you looking for premium levels of precision engineering?

Alpha Performance Fabrication is committed to **meeting your standards** - however demanding.

Backed by 20 years of experience, know-how and engineering excellence, we produce small-to-medium size batch runs in stainless steels, aluminium, Inconel and titanium - **all proudly made in the UK.**

## Are you looking for one-offs or a batch service?

Either way, Alpha Performance Fabrication is well-placed to deliver your precision components **on time and on budget.**

We hold the industry-recognised ISO9001 accreditation. This gives you the assurance you need that your project will be delivered with full attention to **consistency, quality and exceptional service.**



Find out more about Excellence  
in Precision Engineering

t: 01933 274579 e: [info@apfab.co.uk](mailto:info@apfab.co.uk)



# Cooling Systems

Core sale or complete cooling package?

No matter. Either way, we're your specialist provider.

Our dedicated core manufacturing facility allows us to oversee every aspect of the manufacturing process and quality control. Our **world-class fabrication** and **welding skills** make for a winning combination.

We specialise in manufacturing one-offs up to medium size batches of

- radiators
- oil coolers
- intercoolers
- heat exchangers
- pipework – e.g. water pipes and charge pipes

Our understanding of cooling systems is unrivalled. Our team will advise you

on the best and most efficient solution, covering fin pitch, core thicknesses and internal turbulators.

The world of motorsport now sees our "ITEC" intercooler cores as their number one choice.

With the current boom in electric vehicle research and production, the industry also sees us the **leading Battery cooling specialists**.

Ever the industry innovators, 2020 has seen us launch our **own range of silicone hoses** - available in numerous shapes and sizes. We also supply **fluoro-lined hoses** for use with fuels and oils.

**For the complete Cooling Systems service  
– get in touch**

**t: 01933 274579    e: [info@apfab.co.uk](mailto:info@apfab.co.uk)**





# Exhaust Systems

Premium-grade stainless steel leading to power, efficiency & durability

Premium level **quality** and consistency are the watchwords of our exhaust fabrication processes. We create full exhaust systems, including manifolds, mainly from 304-grade stainless steel. We also work with materials such as 321-grade stainless, Inconel and titanium.

Our exhaust systems are among **the most efficient** and **powerful** you can buy. But - we never compromise on longevity or reliability. Optimal primary and secondary lengths, as well as collector lengths and diameters, are all critical to

performance, especially on a naturally aspirated engine. We calculate them with the utmost precision.

We use only the **best welding techniques**. Our exhaust systems are all TIG welded to the very highest standard and are often back-purged too.

We also stock individual components – V-bands, slip joints, clamps, silencers and flanges.

**For efficient, powerful and robust Exhaust Systems  
– talk to us**

**t: 01933 274579    e: [info@apfab.co.uk](mailto:info@apfab.co.uk)**



# Roll cages

## **Safety in Motorsport is paramount.**

Quite rightly, this has led to increasingly demanding regulations. Just look inside a WRC works rally car. Have you seen how sophisticated roll cage designs have become?

We're an official fitting centre for Custom Cages and often use the roll cage kits for fabrication. Talk to us about your Roll Cage requirements.

We'll advise you on material specifications and the respective advantages, most commonly of the CDS and T45.

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## Suspension components

**Wishbones - pushrods - steering arms - uprights.** We're specialists in manufacturing each of these as well as many other parts.

We manufacture to engineering drawings or supplied patterns. We'll advise on materials and can even arrange for heat treatment and coatings.

For batch work, we manufacture jigs and draw components on Solidworks.

## Pit equipment

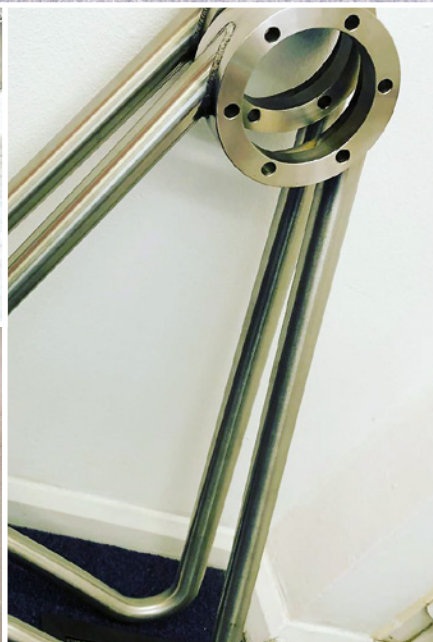
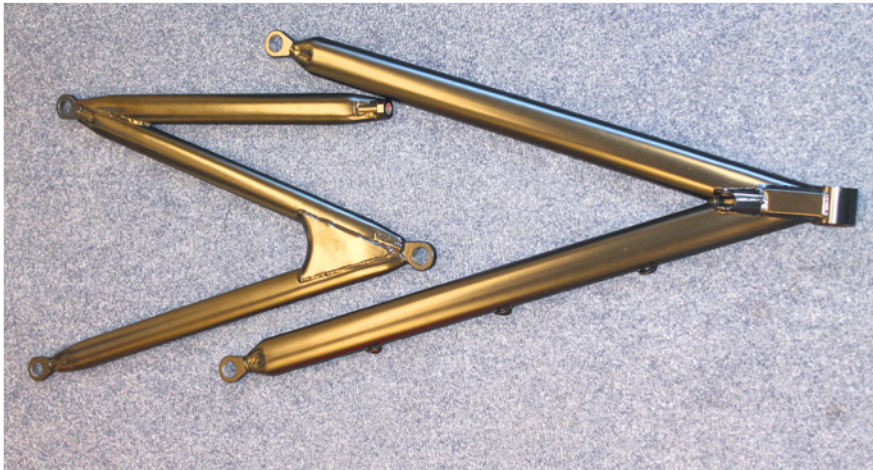
Our range of pit equipment solutions includes

- low and high stands
- A-frames
- bottle trollies
- tyre trollies

We usually make these from polished stainless steel.

We'll work either to your own unique design or we'll design in-house using Solidworks.



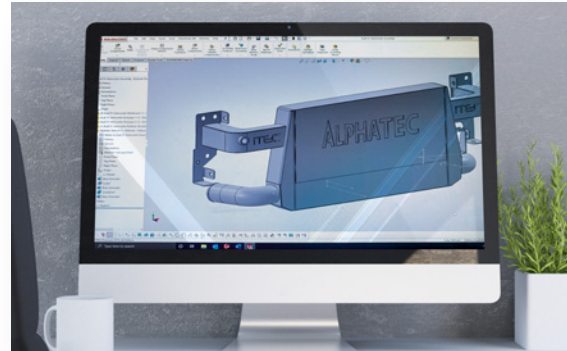


For expertise on Roll Cages, Suspension Systems and Pit Equipment, talk to the specialists

t: 01933 274579 e: [info@apfab.co.uk](mailto:info@apfab.co.uk)

## Solidworks design

We regard Solidworks as the world leader in our sector for Computer-Aided Design work. Prior to manufacture, we frequently use the technology to create 3D models and to create dxf files for laser cutting.



## CNC Machining and 3D Printing

We work in technical partnership with TDF Power Engineering. This enables us to offer **3 and 5 axis CNC machining** and **3D printing for prototyping**.

Using the latest Haas CNC machines, we can now manufacture to tolerances of 0.01mm and also, just as important, keep to tight deadlines.



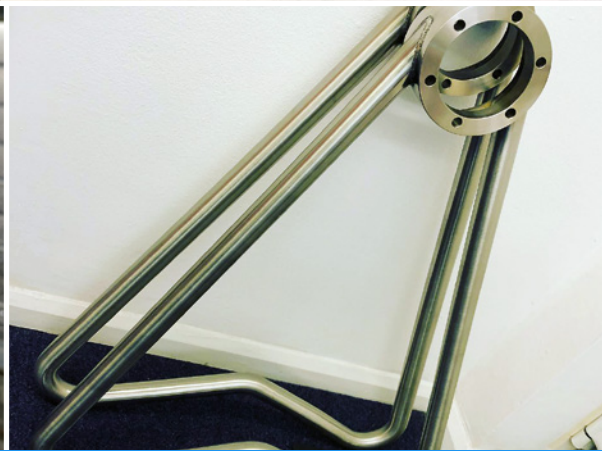
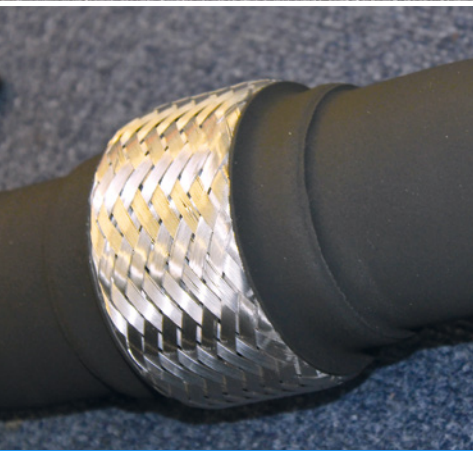
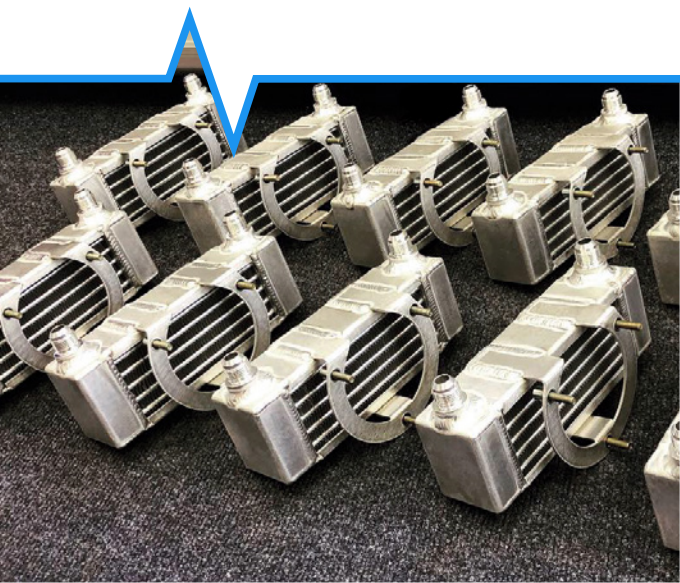
# Alphatec Motorsport Cooling

This is our sister business. Here we focus on developing and manufacturing cooling kits and core sales. We have recently launched our first intercooler kit - **the Audi S1 'Race Spec'**. We'll be adding to this range throughout 2020 with one new product every month.



Find out more about developing and manufacturing  
bespoke Cooling Kits

t: 01933 274579 e: [info@apfab.co.uk](mailto:info@apfab.co.uk)



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