

Motorsport's Influence on Aftermarket Exhaust

Innovation

24 September 2025

Motorsport has always been a proving ground – one where engineering is pushed to its limits, where new ideas are forged under pressure, and where success depends on a relentless pursuit of improvement. But the influence of motorsport doesn't stop at the circuit barriers.

Engineering under pressure

In racing, every detail matters. Exhaust systems in particular must deliver precise airflow, withstand extreme temperatures, and integrate seamlessly with the vehicle's wider performance systems—all while keeping the weight as low as possible. These demands can be a challenge, but they also force innovation, requiring new materials, smarter designs, and a commitment to exacting standards.

This same attention to detail is vital in the aftermarket. While a commuter's daily drive is (hopefully) quite far removed from a qualifying lap, the expectations around part quality, reliability and fitting are not. A poorly fitted exhaust doesn't just mean a second trip to the ramp – it means disruption, dissatisfaction, and damage to a garage's reputation that's much harder to repair than a loose bracket. That's why aftermarket manufacturers need to build components with the same care, skill, and passion found in the world of professional racing.

At Klarius, that link between race-bred engineering and everyday application isn't just a technical connection, but rather a mindset. It's an approach that owes a lot to the culture of motorsport, where nothing is ever "good enough."

Adapting race-born innovation

Many of the engineering principles developed in motorsport find a natural home in the aftermarket. For instance, thermal management strategies and flow dynamics perfected on track can help improve the performance and longevity of road-going exhaust systems. Similarly, advances in lightweight construction and vibration resistance in motorsport have led to better noise control and material efficiency in everyday use.

Klarius applies these lessons directly. Its emissions control components are not only developed in-house to match or exceed OEM standards, but they are also designed with the latest techniques in testing, simulation, and quality control, many of which are inspired by or refined through motorsport engagement.

"Motorsport has always been a crucible for innovation," explains Doug Bentley, Head of Product Development at Klarius. "Many of the features we now take for granted in everyday vehicles, like refined exhaust flow, lightweight materials, and advanced thermal management, appeared in the pit lane long before they got into commercial vehicles.

"That same passion for performance drives our development process at Klarius. We're constantly looking at how motorsport principles can shape better, more reliable solutions for the road."

And the company doesn't just watch from the sidelines, in fact it has a rich history of proudly supporting grassroots motorsport, sponsoring emerging talent, and brought its brand to the track with drivers in [the MINI Challenge](#) and [V8 Hotstox series](#). It's also backed major racing teams, such as [NAPA Racing UK](#), in the [British Touring Car Championship](#).

This isn't just getting the company's name on the car and in front of punters' eyes, however. Instead, it's about staying close to the sharp end of engineering, where innovation and excellence go hand in hand.

A shared drive for better

Ultimately, both motorsport and manufacturing share one key trait: the drive to do better. To make things lighter, faster, and stronger, and to never settle for second best. For Klarius, this means treating every exhaust component as a critical part of vehicle performance, not just a commodity. It means refining fitment to reduce returns, using high-quality materials to extend part life, and offering a Fit First Time guarantee.

Whether it's a podium finish or a trouble-free MOT, the goal is the same: to deliver results through engineering excellence.

Klarius remains committed to learning from the track, applying that knowledge in the workshop, and helping customers across the UK benefit from parts developed with a genuine love of the road – whether that means the Hanger Straight at Silverstone or a quiet stretch of the A521.

Image captions:



Image 1: Klarius support Leicestershire University student race team with a custom exhaust for their 2025 race car



Images 2-4: Klarius has a rich history supporting motorsport with custom parts, and has inherited high-quality engineering knowledge



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Image 5: Klarius provides a custom exhaust for Staffordshire University student race team

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About Klarius Products

Klarius Products is a dedicated Emission Control Products manufacture and supply company servicing primarily the UK and EU markets. The business supplies type approved exhausts, CATs and DPFs designed, developed and manufactured in the UK and delivered via its own logistics operation. Klarius Products operations are centred on the manufacturing, R&D, test track, logistics and stock facility hub based in Cheadle in the UK.

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