

# **White Paper**

## **General Description**

The Eurojet MK6 Exhaust System improves exhaust flow to maximize horsepower and minimize turbo lag. With an improved 40% pass-through (up from 30% in previous-generation systems), thick tubing, and an antireversion chamber in the rear muffler, this exhaust stabilizes long sound waves and reduces cabin noise to create a cleaner European sound.

The MK6 exhaust is built with thick 0.065" material, high-grade T304 stainless steel, and hand-welded joints for ultimate durability and an aggressive race look. Its self-aligning male/female v-band flange design is precisely engineered for perfect alignment, no additional welding or custom parts required.

The modular design allows you to pick and choose which components fit your needs and your budget, so you can install a complete system right now or build it over time. All Eurojet MK6 exhaust components have a lifetime guarantee from material or manufacturer defect.

#### **Features**

- Brushed T304 stainless steel, offering more corrosion resistance than any other stainless steel
- 3" diameter to reduce backpressure and increase pass-through
- Material wall thickness of 0.065" to reduce cabin noise
- Hand-welded joints that are inspected for proper welding penetration and durability
- Internal expansion joints and superior sound-absorbing material to create 40% pass-through, up from 30% in previous-generation systems
- Laser-cut stainless steel flanges to improve fitment and alignment
- Inlet/outlet is centered in the mid-muffler for even temperatures, less turbulence, and a more equal sound
- Reinforced corrugated inner tubing within flex section for long-term durability
- Three O2 sensor bungs for universal installation
- OEM reducer section from 3" to 55 mm to allow fitment of downpipe to OEM exhaust

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## Improved Exhaust Flow

In an effort to minimize turbo lag, Eurojet's new Gen2 design improves exhaust flow in two areas: v-band flanges and pipe bend radius. Additional horsepower over previous-generation designs was achieved by minimizing exhaust back-pressure and increasing flow efficiency in our Gen2 exhaust system.

#### V-Band Flange Design

The V-band flange design replaces the non-gender v-band flanges with fully encapsulating, self-aligning male/female v-banded joints that ensure perfect alignment, create a smoother flow, and seal connections to eliminate condensation sweat. This design eliminates the distortion between alignments after clamping, which can exceed 0.25" in non-gender flanges

Our improved, formed v-band flange is 20 percent lighter than the previous machined flange. In addition, because it is formed from tubing, its expansion and contraction characteristics are the same as the pipe itself.

#### **Pipe Bend Alignment**

Eurojet's new Gen2 exhausts offer an increased center line radius on all bends to minimize pressure loss and maximize exhaust flow efficiency.

## **Improved Sound Quality**

Our goal with our Gen2 exhausts was to decrease cabin noise and deliver a cleaner European sound without any reduction in the exhaust flow. These exhausts include a number of improvements:

- Increased pass-through area of the core from 30 to 40 percent by adding internal expansion joints and 0.25" of stainless wool around a superior sound-absorbing core material. This material is capable of enduring sustained temperatures of 1,200° F.
- Inlet/outlet design in our center muffler has been converted from an offset to a center inlet/outlet configuration, offering better sound absorption, even muffler temperatures, and less turbulence.
- New reduced-weight rear muffler has been designed with an antireversion chamber to stabilize long sound waves and reduce cabin noise intrusion.
- **Thicker material**, increased from 0.049" to 0.065", keeps engine noise out of the cabin and behind the car.

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## **Quality & Durability**

Eurojet's Gen2 exhausts use thicker material than previous generations, upgraded from 0.049" to 0.065". This thicker material keeps premature resonation from entering the cabin area and ensures your system will not deform after years of thermal expansion and contraction.

Hand welding improves upon our previous seam-lock system, an older technology that tends to sweat condensation. Our hand-welded joints have a seam thickness of 0.049" as opposed to 0.030" in the previous generation.

## Modular Design & Easy Install

Eurojet exhausts are modular, which means that you can pick and choose which components fit your needs and your budget so you can install a full system now or build one over time. The modular system allows for quick and easy replacements and upgrades, and give you complete control over how the systems fits and looks on your car.

No matter what you choose—a downpipe, a catback, or a full turboback—the self-aligning male/female v-band flanges are precisely engineered to easily fit together without additional welding or custom parts.

Note: Our Gen2 exhausts may require minor modifications for compatibility with Gen1 systems.

### **Lifetime Guarantee**

We stand behind what we build. Eurojet exhausts have a lifetime guarantee from material and manufacturer's defect in a single car with a single owner.



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