

# Athena - Yamaha YZ 125 Big Bore Kit

Alonte, Vicenza based Athena's new Big Bore Kit for the Yamaha YZ 125 (2022-2024) is a genuine power and precision upgrade that "redefines the track experience".

With over 50 years of experience in high-performance motorcycle parts, this new kit is "designed to maximise the performance of the YZ 125, increasing the displacement to 144 cc to deliver **explosive power** from the very first twist of the throttle.

"Through rigorous dyno and track testing, the kit has been refined to ensure a significant power boost and enhanced reliability, essential for riders aiming for peak performance. The kit configuration guarantees immediate response and progressive thrust across the entire RPM range, making every acceleration a pure adrenaline rush."

All components of the kit have been internally designed and developed by Athena to ensure optimal synergy, providing maximum reliability and durability.

The **aluminum cylinder** is engineered with "optimised geometry to maximise combustion efficiency". The intake and exhaust ports are designed for ideal gas flow, while the water jackets prevent overheating. The result is smooth, balanced power delivery with consistent performance across the entire RPM range.

A standout feature of this kit is the **modular head**, composed of an aluminium outer shell and a bronze inner dome. This design allows "precise customisation of squish and compression ratios, improving heat dissipation, reliability, and durability". The self-centring dome, recessed into the cylinder, enhances combustion and ensures a perfect seal.

The **exhaust valves** are crafted from Eragal 7075 (zinc aluminium alloy) with hard anodising and offer high thermal resistance and optimal lightness. "Their precision seal prevents compression losses, maintaining consistent power".

Athena's Big Bore Cylinder Kit also includes a **complete gasket set**, "engineered to withstand the extreme conditions of the track and provide a perfect seal".

## ATHENA

Alonte, ITALY

Tel: +39 0444 727272

[motorsport@athena.eu](mailto:motorsport@athena.eu)

[www.athena.eu](http://www.athena.eu)

