AKRAPOVIČ

Exhaust System Technology

AKRAPOVIČ INTRODUCES NEW DESIGN | HEXAGONAL-SHAPED MUFFLER

www.akrapovic-exhaust.com

It is **ready** to be installed!

Different.
Cutting-edge features.
Ready to be admired and to face the competition.
Ready to prove itself. With its design, performance characteristics, high-quality workmanship and state-of-the-art materials.

It is ready to be installed!

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Exhaust System Technology

HEXAGONAL
SHAPED MUFFLER

The company Akrapovič has added a new type of muffler (PAT. No. : M-200550034) to its range of exhaust systems, designed for Road programme and later gradually also for other programmes.

The new design is substantially different from the shapes we have offered up to the present, with a sharper look which reflects design trends which have been appearing recently in the automotive field.

The new muffler design is based on the use of carbon fiber, since the structure of this material works especially well with the new lines. Particular attention should be paid to the smooth transition from the six-sided canister to the four-sided outlet cap.

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This aspect and the diamond-shaped conical form of the carbon-fiber outlet cap are the defining features of the look of the new muffler, which we refer to unabashedly as "bold elegance".

The design priorities were also to ensure maximum increases of power and torque, with appropriate noise reduction and minimal harmful exhaust gas emissions. The outlet cap interior is formed using the hydroforming process, through which we were able to improve outlet exhaust flow.

With its recognizable new design, the new type of muffler offers a successful combination of our development experience and the newest trends in the motorcycle market.

It is designed for you and exactly for your motorcycle.

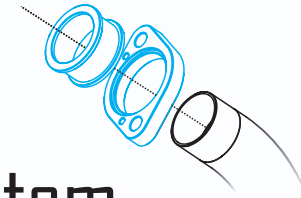
It is ready to be installed! | **HEXAGONAL** SHAPED MUFFLER

The essential elements of a top quality exhaust system

In our years of experience on the aftermarket exhaust components market and encounters with the competition, we have gained a great deal of knowledge.

As one of the leading designers and manufacturers of high-performance exhaust systems, in keeping with the philosophy of our company, the reputation of the Akrapovič brand and our experiences in the field of motorcycle racing, we feel obliged to draw your attention to certain important factors which influence the durability, safety and operation of high-performance exhaust systems.

We wish to inform you as our potential customer about how to make a good assessment of the product you want to purchase, and at the same time to respond to the question of why Akrapovič exhaust systems are so highly rated by enthusiasts, i.e. where the added value lies which separates high-quality from lower quality exhaust systems.



HYDROFORMING

Akrapovič header tubes together with conical elements made using the hydroforming process, with which we ensure the optimal flow of the exhaust gases, i.e. minimize the negative turbulence of the gases.

SANDWICH

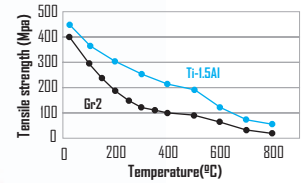
In addition to the damping wool, the interior of the muffler contains an SS mesh/SS wool/SS mesh sandwich, which prevents excessive combustion of the muffler packing material under heavier loading.

CNC MACHINING

The joints between individual components are made from CNC machined sleeves. Only in this way, using allowable tolerances, can we ensure constant precise contact between individual components and permanent compactness of the system.

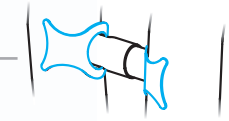
INDEPENDENCY

Inner sleeves, flanges and header tubes are independent. Therefore the header tubes are "free-floating", and are attached to the engine head using springs. They are not bolted in. Only the flanges are screwed in, and these hold the inner sleeves. This system allows faster removal and installation of the header tubes in racing situations. Stress on the material due to engine vibration is reduced to a minimum.



SPECIAL TITANIUM ALLOY

Akrapovič uses a special type of titanium for its Evolution exhaust systems. On the basis of an exclusive contract with Japanese manufacturer Kobe Steel, we have a concession for a special titanium alloy intended exclusively for the production of Akrapovič exhaust systems. This alloy conforms to grade 3 level of tensile strength and resistance to oxidation at high temperatures. According to specifications, at 800ºC this alloy must tolerate one level of tensile strength higher than grade 2 titanium. At temperatures between 200 and 500 ºC it must demonstrate up to 3x higher strength. This alloy also responds very well to forming and is easy to weld.



REINFORCEMENT

To avoid cracking of the joints, we always reinforce our titanium interference crossover tubes.

PERFECT FITMENT

The perfect fit of individual tube parts around their circumference is extremely important, since this makes accurate welding possible only where it is needed. We avoid weld leakage into the interior of the tube, which acts like an unwanted scar on the interior tube surface, disrupting the smooth flow of exhaust gases and distorting the system's performance characteristics.

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