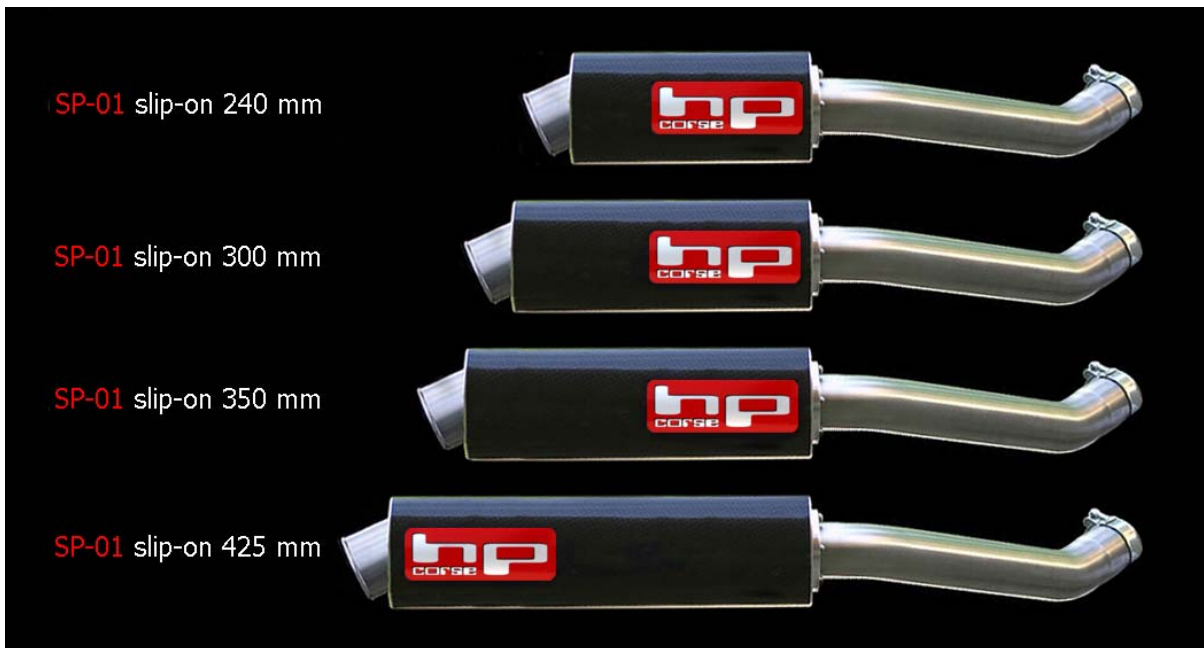




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HP Corse SP01

Informations spécifiques / Specific information / Informazioni specifiche



Specific information:

The exhaust system SP 01 EVOLUTION is the "trademark" of HPCorse. What makes it so unique and distinguishable than any other silencer is the ovoid shape particular case of extremely compact, taken by the ovoid of bocchettone exit exhaust. The system assembly is guaranteed by 4 lugs interiors made of stainless steel AISI 304 without external rivets. To inspect the interior of the silencer and check the status of wear wool, simply remove the bottom rear 4 screws Allen. The SP 01 EVOLUTION is available in different lengths (425-350-300-240 mm) depending on the type of machine on which materials will be available and applied for the casings are: carbon shiny, titanium and stainless steel shiny (satin upon request). The model depicted in the images is the version Bolt-On titanium 350 mm. Available in Pro version (direct discharge) network with perforated cylindrical or Pro-Series approved EC 97/24/9-2005/30 with silencer removed for use in closed circuit. The approval is available for the length of casings from 425-350-300 mm. See the list for applications.

General information:

The silencers HPCorse are distinguished by having a section ovoidale fact that elliptical or rhomboidal. Building personally molds we created a single oval. Each wrapper (round, elliptical, oval, etc..) Characterizes the tone of discharge of a silencer and the sound of a HP is precisely because of the particular shape dell'ovale, unmistakable.

The titanium because of its low density and high mechanical strength is a material that is being done increasingly appreciated in the world competitions. We use plates degree 2 calandrate thick 0.6 / 0.8 and a TIG welded. In controlled atmosphere. Each silencer after being assembled is finely frosted by hand to ensure maximum surface finish.

Fondelli derived from solid: Flangiatura Bolt-On

The fondelli making up our silencers are derived from solid aluminum slabs from Anticorodal 6082. The design is entrusted to three-dimensional CAD programs and enforcement machinery automatic computerized numerical control. For the processing of each bottom takes on average 25 minutes for the only shavings and dimensional accuracy are high as the level of finish. The nozzle for the escape of exhaust gases is turned from a tube and through an aluminum mold ovalizzato to reach the same form of silencer. We lottenuto a pair as perfect as possible between spout and bottom so it would suggest a single piece without welds that are to be inside.

Operating principle

Foreword

The continuing improvement in performance engines 4T generation, high power, it has led to the design of a new silencer, demonstrating that it is still possible to mitigate noise (Transmission Loss) increasing maximum power and torque. The principle of operation of the SP OVO/04 relies on a combination of three systems mute to cover the entire range of frequencies and maintain the maximum usability of exhaust throughout the performance curve.

Objectives

Significant Increase the maximum power than the original exhaust system.

Significant Increase of torque than the original exhaust system.

Meeting the European regulations on noise,

In comparison with the original exhaust system (European Directive 97/24 EC).

Producing an appropriate tone and pleasant exhaust systems of the high rotation.

Ensuring the highest quality construction, materials and manufacturing technologically advanced.

Functioning

Up to 4000 revolutions, work is the first that the second part of the silencer dynamically. The first section uses the principle mute "absorption", dissipando energy through the soundproofing material with which the sound wave comes into contact. The second section uses the principle of "refraction" and "resonance" covering the entire range of frequencies to change. With the combination of the above systems outside the exit of exhaust gas is parzializzata and do not have the effect "emptying" low discharge regimes typical "open", but on the contrary buys in the engine torque and progression.

More than 4000 laps the first zone remains dynamic and the second becomes static. The silencer works as a real extractor, improving and optimizing the output out of gas to increase the number of laps.

The extraction of exhaust gas increases proportionally with the increase in the number of laps, working as a racing exhaust.