

NEW PRODUCT

CYLINDER KIT Ø 83 MM 282,4 CC

KAWASAKI KX 250 2020



PRICE:
€ 560,55 (VAT excl.)

PART NUMBER:
P400250100027

- INCLUDED IN THE KIT:**
- Cylinder
 - Piston Kit
 - Gasket Kit

Exponential increase in performance and the same reliability as the OE: these are the hallmarks of the new **Big Bore Cylinder Kit** for **Kawasaki KX 250 2020**.

All the components of the kit are engineered by Athena R&D technicians to ensure not only an **increase in displacement**, but also **balanced power management**, thanks to an improvement of in-cylinder flow, and a **guarantee of perfect tightness and long life** thanks to the high quality and detailed construction of all the products.

This kit contains a **cylinder with a nickel and silicon coated liner**, a **forged piston** that ensures maximum performance and resistance, and a **gasket kit** that includes a multilayer head gasket and a rubber-coated base gasket that avoid leakage.

All kit components are developed to **withstand** the highest **temperatures, pressures, and stress**, and they are **perfectly compatible with the OE ones**.

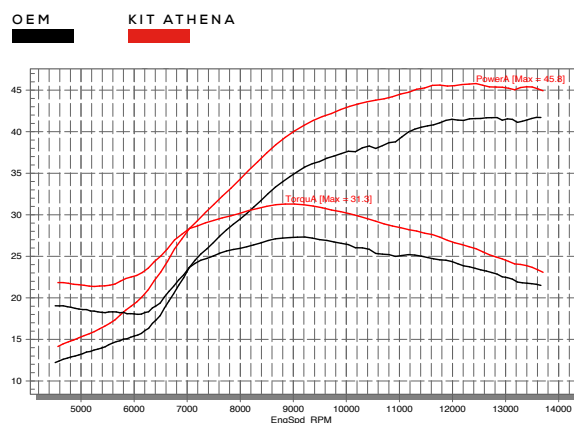
The cylinder kit was also **tested first on the dynamic and static bench** under progressive stress, and then **on track** to validate the **increase in horsepower and maximum torque** compared to the OEM kit even in the most extreme conditions of use.

Athena cylinder kit can be installed **without any crankcase machining and without any other OE component replacement**.

TECHNICAL DATA

	OEM	KIT ATHENA*
DISPLACEMENT	249,4 cm ³	282,4 cm ³
BORE	78 mm	83 mm
STROKE	52,2 mm	52,2 mm
COMPRESSION RATIO	14,2 : 1	14,4 : 1
POWER CURVE	41,7 HP 12.800 RPM	45,8 HP 9.000 RPM

* Data referred to a bike with a stock setting engine + Athena cylinder kit



TECHNICAL FEATURES

The new cylinder kit for Kawasaki KX 250 ensures better smoothness, reduced noise, longer life and increased power and torque thanks to:

ALUMINUM BIG BORE CYLINDER

The new Big Bore cylinder was engineered by Athena's technicians to ensure an explosion of power (**over 4 horsepower**) and in maximum torque. This cylinder therefore ensures better pick-up and can take full advantage of the engine even at low revs.

The R&D department modified not only the diameter, which required resizing the barrel thickness to ensure its **structural integrity**, but also the geometries of the cylinder to **improve the internal flows** of the combustion chamber and therefore engine performance.

To keep **cooling** under control **even at high revs**, the size of the water jacket was also increased.

Produced by gravity casting, the cylinder is subjected to heat treatment to improve the mechanical characteristics of the aluminum alloy, while the liner has a special nickel and silicon carbide coating to ensure **maximum smoothness** over time.



GASKET KIT 100% MADE IN ATHENA

Choosing an outstanding quality gasket is the first step towards the reliability of your engine. The gaskets included in the kit always **ensure maximum tightness** and **resistance to mechanical and thermal stress**.

The MLS, or multilayer, head gasket, which constantly undergoes extreme stress, is made up of three AISI301 stainless steel layers to avoid leakage and to **withstand high compression levels**.

The base gasket, on the other hand, is made of NBR coated steel, a material that ensures maximum tightness and avoids oil leaks that could compromise engine performance.



FORGED PISTON WITH HARDENING AND ANTI-SEIZING TREATMENT

To adapt to the Big Bore cylinder, the Athena forged piston has been optimised not only in weight and structure, but also in head geometries, with the goal of increasing engine performance.

Made with high-quality materials that ensure the **reliability equal** to the OE one and, at the same time, greater durability, it has a **molybdenum disulfide coating** on the skirt to further **reduce friction**, while the smooth profiles ensure **perfect flame propagation**.

The **rings are produced in Japan** with chromium-nitride coating to increase the tightness and to avoid excessive cylinder wear, while the **steel alloy pin** is processed to obtain maximum hardness and smoothness.



SPARE PARTS

PART NUMBER	DESCRIPTION	PRICE (VAT EXCL.)
P400250160027	Gasket Kit	€ 46,41
S5F08300001A	Forged Piston Ø 82,95 mm	€ 174,98
S5F08300001B	Forged Piston Ø 82,96 mm	€ 174,98
S5F08300001C	Forged Piston Ø 82,97 mm	€ 174,98
S41316133	Piston Rings Kit	€ 25,02

The complete application list is available on athena.eu

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ENGINE OIL
SEALS KIT

P400250400069



OIL FILTER

FFC017



AIR FILTER

S410250200029



TITANIUM INTAKE
VALVE

VI-250210T



TITANIUM
EXHAUST VALVE

VE-250206T



TIMING CHAIN

S41400025