



suitable for:

# SUZUKI RM-Z 250

2010-2011

CYLINDER, PISTON, GASKET KIT

**BIG BORE** Ø 83 mm / 290 cc



**Bolt On**

**P/N: P400510100020**

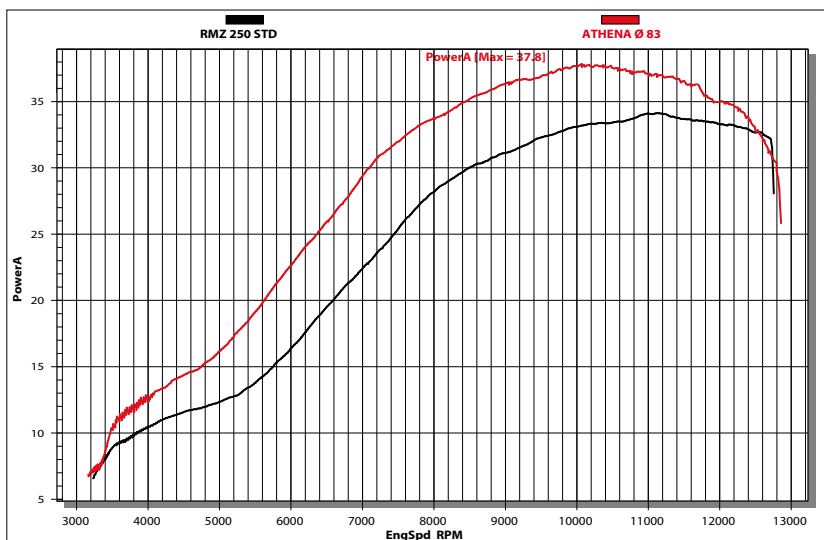
ATHENA presents its new **BIG BORE** Kit for the **SUZUKI RM-Z 250**, tested on tracks and on dynamometric bench. Contrary to the competitors **ATHENA** is the only one producing this cylinder in a **BOLT-ON** version, in other words it can be installed on the engine without any crankcase modifications. **ATHENA** have matched the **cylinder** with a **forged piston** which has a higher compression ratio than that of the OE, we intended to reach the best performances ever. The **gaskets** have been developed using last generation technologies; in particular the **multilayers head gasket** has been redesigned to be suitable to the new dimensions and performance of the **BIG BORE** cylinder kit.

- **S4F08300007A** Forged piston Ø 82.95;
- **S4F08300007B** Forged piston Ø 82.96;
- **P400510160018** Gasket kit;

**ATHENA**

**OEM**

	ATHENA	OEM
<b>CYLINDER BORE</b>	83 mm	77 mm
<b>STROKE</b>	53.6 mm	53.6 mm
<b>DISPLACEMENT</b>	289.7 cc	249 cc
<b>COMPRESSION RATIO</b>	13.6:1	13.4:1
<b>WHEEL POWER</b>	28.2 kW / 37.8 HP / 10100 rpm	25.5 kW / 34.2 HP / 11200 rpm



ATHENA [28.2 kW / 37.8 HP]

Test made with:

- ATHENA Cylinder kit ATHENA Ø 83 mm.

OEM [25.5 kW / 34.2 HP]

Test made with stock engine.

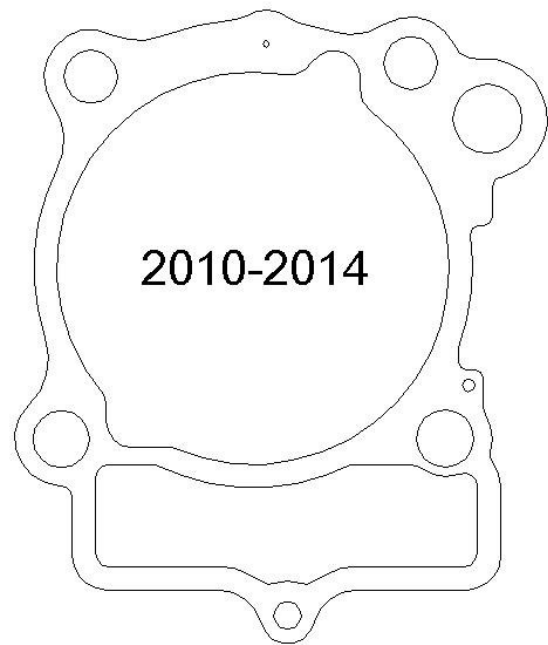
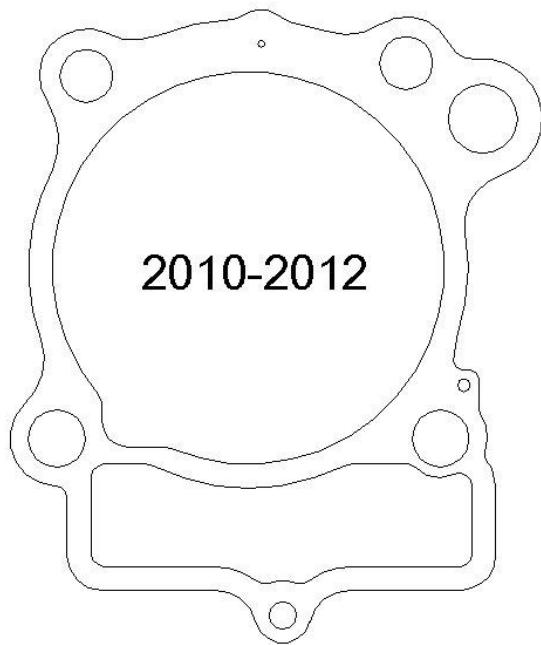
ATHENA SUGGESTS TO USE ALSO:

- **FFC017** Oil filter (not included); ●
- **S410510200019** Air filter (not included); ●
- **P400510850076** Complet kit (not included);
- **P400510400050** Engine oil seal kit (not included).

## STRENGTH POINTS

1. Projects use 3D Solid Modelling software creating virtual simulation and verification of mechanical stresses.
2. Aluminium cylinder cast in steel moulds and manufactured by CNC machines to assure millesimal tolerances during all manufacturing phases.
3. Redesigned water jackets to increase capacity
4. Cylinder liner with a special silicon carbide and nickel coating mixture to grant the best fluidity of the piston and durability of the cylinder.
5. Lapping performed in rooms with indoor temperatures of around 20 degrees, in order to have an excellent control of the boring and of each cylinder quality.
6. Cylinder support surfaces are perfectly parallels in order to eliminate any matching inaccuracy.





**Pay attention at  
the applications years of this base gasket in your kit**