



suitable for:

YAMAHA YZ 85

2002-2011

CYLINDER, PISTON, GASKET KIT

BIG BORE Ø 53 mm / 105 cc



**Bolt
On**

P/N: **P400485100038**

ATHENA has just released two new **BIG BORE** kits for the **YAMAHA YZ85** (2002-2011) and offers a choice of either 105cc or 112cc displacement. The YZ85 is Yamahas smallest motocross model and is an ideal choice for young motocross enthusiasts. The Supermini YZ85/105 kit is a complete cylinder kit featuring simple bolt on installation.

ATHENA also developed an exhaust pipe (S410485120010), and a silencer (S410485303021), both of which are optimized specifically to maximize horsepower for these kits.

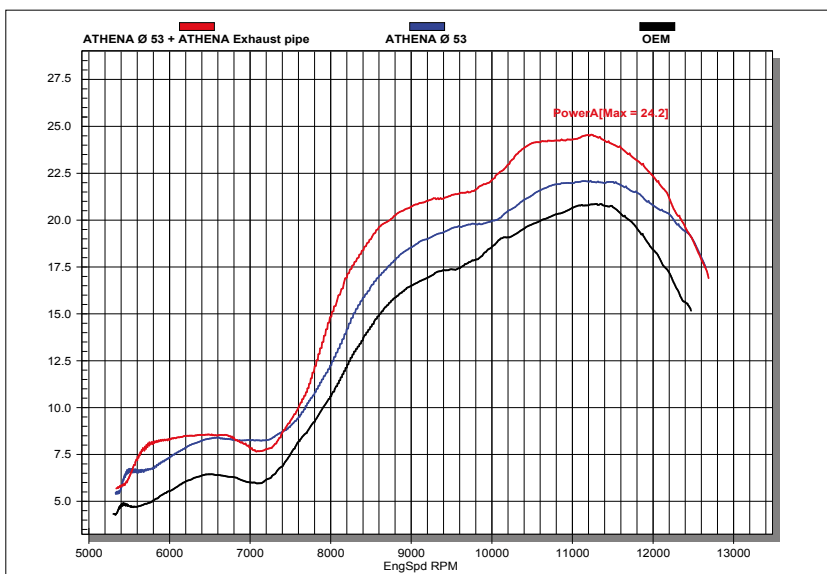
The completely re-designed **cylinder** has been developed for increase horsepower while maintaining long term reliability. Cylinder features include: 25% increase in piston surface, expanded intake port, unique 2 stage booster exhaust port (eliminating the bridged port), and a larger water jacket for superior cooling. The specially designed hi-compression forged racing **piston** features a unique dome head that provides increase compression up to 13.8:1 vs. the stock 8.2:1. You can change the compression ratios based on one of the three base gaskets all provided in the kits.

With all these features, these cylinder kits require NO case modification! All **ATHENA** Stock and Big Bore cylinder kits come complete with cylinder head, pistons, all required gaskets, and other necessary items and instructions for easy installation.



OEM

CYLINDER BORE	53 mm	47.5 mm
STROKE	47.8 mm	47.8 mm
DISPLACEMENT	105 cc	84.7 cc
COMPRESSION RATIO	13.8:1	8.2:1
WHEEL POWER	18.1 kW / 24.2 HP / 11200 rpm	15.7 kW / 21.0 HP / 11300 rpm



ATHENA 118.1 kW / 24.2 HP
Test made with:
- ATHENA Cylinder kit Ø 53 mm.
- Racing Exhaust Pipe ATHENA

ATHENA 116.4 kW / 22.0 HP
Test made with:
- ATHENA Cylinder kit Ø 53 mm.

OEM 115.7 kW / 21.0 HP
Test eseguiti con:
- Motore originale.

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.



- S4F05300002A/B Forged piston Ø 53;
- P400485160023 Gaskets kit;

ATHENA SUGGESTS TO USE ALSO:



S410485300010

Exhaust Pipe **ATHENA** - w/o silencer (not included into the kit);



S410485303021

Silencer **ATHENA** (not included into the kit);



FPS11-YZ85

Radiator **FLUIDYNE** (not included into the kit);



PK00040019

ECU **GET** GPX 2007-2011 (not included into the kit);



S410485200016

Air filter **ATHENA** (not included into the kit);



BOYSC-30B

Ignition Black Cover **BOYESEN** (not included into the kit);