

Hyper S-Stage Bore Up Kit 138cc/178cc(with Big throttle body Kit)

Z125 PRO

Hyper S-Stage Bore Up Kit (with Big throttle body Kit)

It is a bargain Kit including S-Stage Bore Up Kit (with camshaft),FI CON TYPE-e (injection controller) ,Big throttle body Kit and a spark plug.

S-Stage Bore Up Kit (with camshaft)

It is a bore-up kit that makes larger displacement to 138cc or 178cc by replacing cylinder and piston.

Adopt the all-aluminum ceramic plated cylinder with excellent durability, tightness, heat dissipation.

As an stick thermosensor can be installed onto this cylinder, you can measure the cylinder temperature just by additionally purchasing a meter coming either an stick thermosensor.

Sports camshaft: The optimal profiles to maximize the performance of the stock cylinder head, the output performance will improve.

Built-in auto decompression mechanism are equipped same as stock.

Available displacement of 138 cc and 178 cc The 138cc, you can choose from two kinds of sports camshaft "N-10" and "N-20" for your riding purpose.

■ Compression ratio 138cc 12.3:1 / 178cc 11.5:1 ■ Bore 138cc 59mm / 178cc 67mm ■ Stroke 50.6mm (stock)

Big throttle body Kit (Φ34)

It is a "Big throttle body kit" targeted at vehicles fitted with our sports cam shaft and FI CON TYPE-e (injection controller), or S stage bore up kit.

By installing, engine characteristics and output power can be increased without stress.

■ New design, original big throttle body (bore diameter Φ 34)

By adopting the newly designed original big throttle body, the output performance in the high rpm range, which is not in the stock throttle body specification, improves, and it is possible to obtain the engine characteristics that drives without stress.

■ Air filter for "Big throttle body" (with blow-bypass adaptor)

By removing the stock air cleaner box and installing our air filter, high suction efficiency suitable for "Big throttle body" is possible.

Also, because of blow-bypass adaptor, it is possible to connect to our oil catch tank.

■ Our original inlet pipe (for stock cylinder head)

It is possible to intakes smoothly from the "Big throttle body" to the stock intake port.

The inlet pipe comes with a adaptor that enables hose connection to charcoal canister.

■ Shroud bracket (black painted steel)

With the same fitting as genuine, you can place the both left and right shrouds.

In addition, you can install our oil cooler kit inside of the shroud.(sold, separately) .

※To install our Oil Cooler Kit, it is necessary to have our special clutch cover at the same time.

FI CON TYPE-e(Injection controller)

By installing our bore-up kit and exhaust parts, it will deviate considerably from the best air-fuel ratio, so it is necessary to correct the fuel injection time with our "FI CON" It can easily be installed only plug into the genuine ECU's coupler. "FI CON TYPE-e" has multiple pre-set mapping by our factory and you can easily select, change, and correct the mapping data for your engine specification with PC or smartphone.

Adjustment of maximum injection time can be increase 5000 μs, and decrease 7500 μs, which can be used widely from stock displacement to bore-up engine. It can be monitoring of engine speed, temperature, throttle opening angle and injector opening / closing rate by PC and smartphone, so you can use it very conveniently when you setting up.For details of this function, please refer to the attachment "FI CON TYPE-e".

※When using "FI CON TYPE-e" you must have PC or smart phone that meets the following requirement.

It is necessary to download software and applications(fee apply)

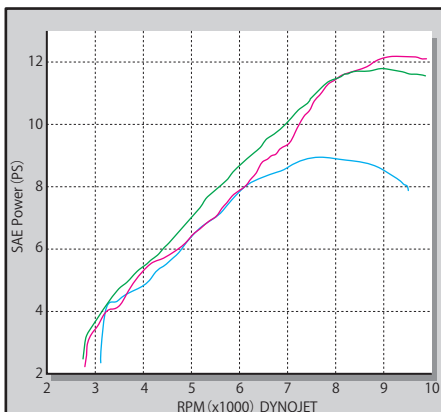
System requirement for "FI CON TYPE-e"	PC: Windows 7/8/10 (exclude RT/MOBILE)	You need down load our special software (free) Need built in Bluetooth or an external Bluetooth adapter.
	Smart phone: iOS8 and above. after iPhone4s, iPad 3rd generation,	Download and install from Apple store.(fee apply) Andoroid:4.2.2 with Bluetooth. Download and install from Google play.(fee apply)



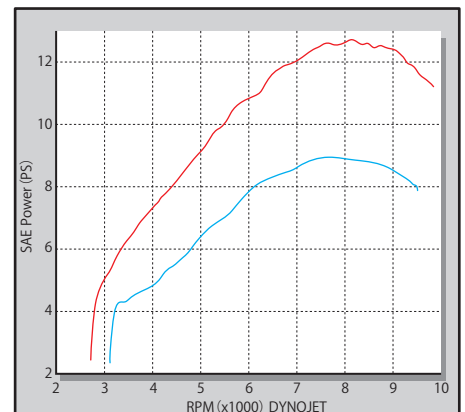
Hyper S-Stage Bore Up Kit 178cc SCUT
(with Big throttle body Kit)

Name	Hyper S-Stage Bore Up Kit 138cc (with Big throttle body)
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	With sports camshaft (N-10) 01-05-5448 With N-20 camshaft 01-05-5449

Name	Hyper S-Stage Bore Up Kit 178cc SCUT (with Big throttle body)
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	With N-20 camshaft 01-05-5450



Z125 PRO
 ■ Hyper S-Stage Bore Up Kit 138cc (with Big throttle body) (N-20 Camshaft) + BOMBER exhaust system
 ■ Hyper S-Stage Bore Up Kit 138cc (with Big throttle body) (Sports camshaft (N-10) + BOMBER exhaust system
 ■ Stock Engine + Stock exhaust system



Z125 PRO
 ■ Hyper S-Stage Bore Up Kit 178cc (with Big throttle body) (N-20 Camshaft) + BOMBER exhaust system
 ■ Stock Engine + Stock exhaust system

FI CON TYPE-e (Injection controller)

Z125 PRO

Injection controller can be simply coupler on to genuine ECU. You can easily select, modify, and modify with the Preset mapping using a PC or smartphone. By installing our own various functions, you can use it widely from beginners to experts enthusiasts.

FI CON TYPE-e(Injection controller)

Coupler on to the genuine ECU

It can be installed easy coupler on the genuine ECU not necessary to cut or modify wiring at all.

Original preset mapping is included for our custom engine kit parts

Using our exclusive application (need down load) on PC or smartphone, the fuel adjustment mapping can be set on your engine.

To make the perfect setting, will need to use chassis dynamometer and O2 sensor.

"FI CON TYPE-e" Several preset fuel mapping is ideal and easy to use for , such as "stock engine with sport camshaft" or "138cc S stage bore-up kit"

When your engine is equipped with our custom engine kit, chose presetting "FI CON TYPE-e" mapping will complete the setting

Even when you use other manufacture exhaust or engine kit, you can choose preset mapping and make fine adjustment so that setting can proceed smoothly

※To make the perfect setting, will need to use chassis dynamometer and O2 sensor.

※DO NOT setting with smartphone while riding.

Fuel injection duration adjustment

Adjustable for every 5% of throttle opening and 500 rpm engine cycle, Maximum increase 5000 μs · Maximum 7500 μs

Simultaneous monitoring

Our special software (smartphone: application) installed on PC or smartphone has a real-time monitoring function which is very useful for setting

With the real-time monitoring function, tachometer, throttle opening graphic, engine temperature, and the fuel injection rate are digitally showing.

You can check the tachometer, TPS (throttle position sensor) opening monitor, engine temperature in real time while the engine is running.

Real search function

You can connect PC or smartphone while engine is running.The information of the running engine is reflected on the screen on the PC or smartphone in real time.

In the real search function, the engine rpm and the throttle opening are reflected in the e fuel map graphic, and that part glows to show clarify the adjustment area

It is very useful function when you setting.

Rev limiter control

You can set the maximum engine rpm.Because it is an independent function apart from the original limiter, it can be set even at lower rpm.

It is a function that can be used effectively when you do not want to raise the engine speed, such as avoid over rev, or break- in time.

Digital accelerator pump

"FI CON TYPE-e" captures the TPS (throttle position sensor) signal and monitors the throttle opening speed

When the throttle is opened quickly, the acceleration injection are engaged then it can injects fuel more than they originally set.

Pit lane speed limiter function

When you do not want to raise the speed at racetrack's pit lane (because of the speed limit regulation etc.) separately from the rev-limiter function,

they can engage the button-switch to pit lane speed limiter function. This function can be hock up easy (just connect wire to the switch and ground earth)

Tachometer output wire included

The purple wiring in the spiral tube of the main unit, this wire output 5V signal.By connecting this pulse line of the electric tachometer, you can measure the engine speed

※We don't have custom tachometer kit for Z125 PRO We have many general purpose tachometer kit available.

※When installing our general-purpose tachometer, it is necessary to use the attachment and modify the wiring harness and connect the meter power supply

General-purpose tachometer which confirmed operation.

Square LCD speed & tachometer (05-05-0027)

Medium DN tachometer (05-05-3210)

Φ48 small DN tachometer (orange) (05-05-0016)

Φ48 small DN tachometer (white) (05-05-0035)

Medium LCD speed & tachometer (05-05-0028)

Blue LED tachometer (05-05-0004)

Black & green tachometer (05-05-0014)

※General-purpose tachometer which is NOT work with this kit. ※It does not work properly

Super multi DN meter (05-05-0811) Large LCD α speed & tachometer (09-01-0057) Medium LCD α tachometer & thermometer (09-05-0144)

※When using "FI CON TYPE-e" you must have PC or smart phone that meets the following requirement.

It is necessary to download software and applications(fee apply)

System requirement for "FI CON TYPE-e"	PC:Windows 7/8/10 (exclude RT/MOBILE)	You need down load our special software (free) Need built in Bluetooth or an external Bluetooth adapter.
	Smart phone:iOS8 and above. after iPhone4s, iPad 3rd generation,	Download and install from Apple store.(fee apply) Andoroid:4.2.2 with Bluetooth. Download and install from Google play.(fee apply)



Name	FI CON TYPE-e (Injection controller)
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	05-04-0101

FI CON TYPE-e Pre-set fuel adjustment mapping list

Engine spec								
Stock engine	+	Sports camshaft (N-10)	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
Stock engine	+	Sports camshaft (N-10)	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system
S-Stage 138cc	+	Sports camshaft (N-10)	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
S-Stage 138cc	+	Sports camshaft (N-10)	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system
S-Stage 138cc	+	N-20 camshaft	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
S-Stage 138cc	+	N-20 camshaft	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system
S-Stage 178cc	+	N-20 camshaft	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
S-Stage 178cc	+	N-20 camshaft	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system