



BURGMAN

STREET 125 EX

Press information

October 2022



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1. Introduction

Tailored to excel, the new Burgman Street 125EX brings a new level of elegant style and satisfying performance to the 125cc scooter class. Designed to make a statement this new model stands out with its fusion of class, style, performance, comfort, practicality, and convenience.

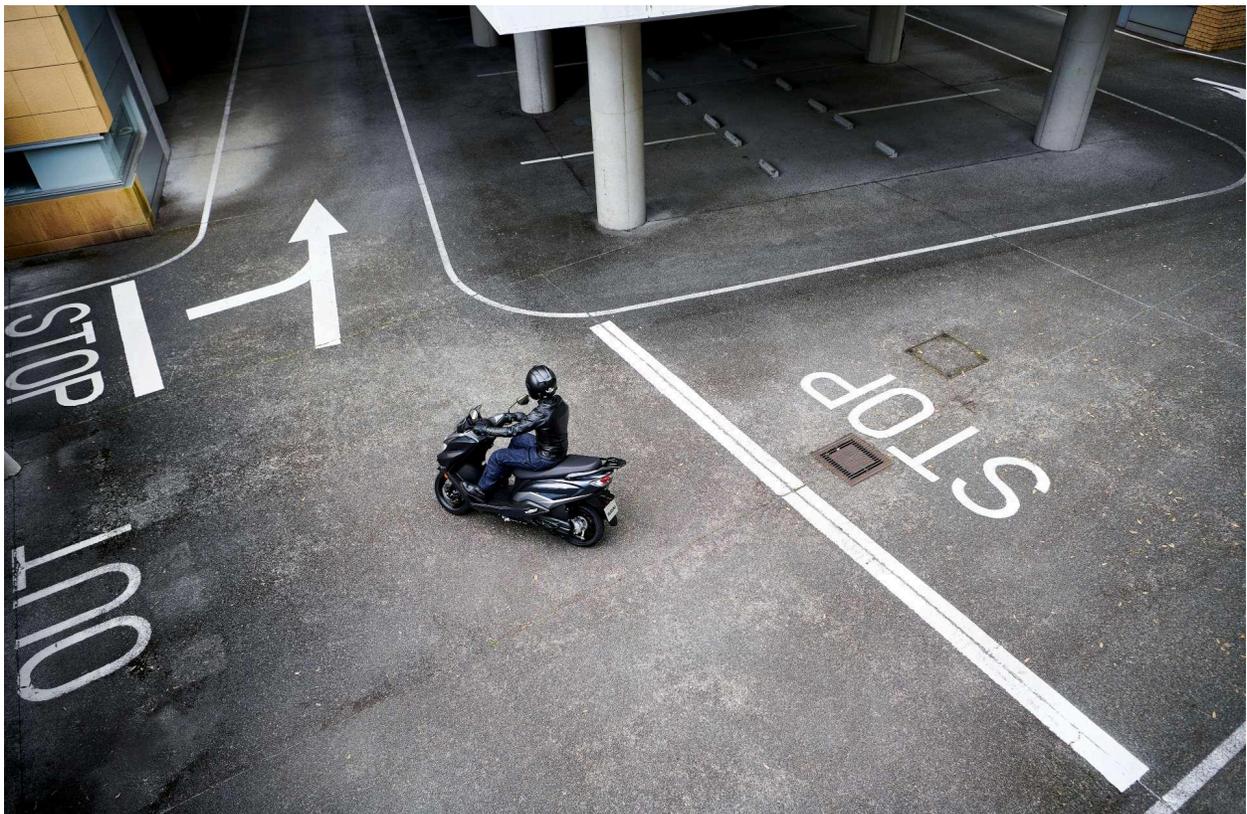


2. Product concept

The Elegant Performer

The product concept for the new Burgman Street 125EX aims to convey luxury and sophistication, attributes it brings to the compact scooter class, as well as its ability to provide satisfying performance and practical convenience in everyday use.

The new Burgman Street 125EX further advances Suzuki's reputation for performance by introducing Suzuki Eco Performance Alpha (SEP- α) engine technology for the first time. While building on the proven reliability and performance of SEP technology that now powers more than five million Suzuki scooters, SEP- α distinguishes itself by enhancing the user experience while at the same time achieving a new level of fuel economy and quiet operation. This is achieved through the introduction of Engine Auto Stop-Start (EASS) function, a new idling stop system that effectively reduces fuel consumption and contributes to quieter operation. In conjunction, the new Silent Start System works alongside EASS to start and restart the scooter smoothly and quietly, providing a more refined riding experience than on any previous Suzuki scooter. The application of advanced air-cooled engine design coupled with Suzuki's own fuel injection system produces maximum power output with powerful acceleration and combines this with optimum fuel economy and environmental performance that complies with Euro 5 emissions standards.



2. Product concept

Features designed to enhance control include the Combined Brake System, which provides well-balanced braking. The use of bright, compact, and durable LEDs for the headlight, position lights and taillight contribute to greater reliability and visibility. In addition, the multifunction digital instrument panel helps the rider concentrate on the road ahead and contributes to the model's luxurious styling.

The Burgman Street 125EX affords both rider and passenger plenty of room with a long seat that is well-padded, elegantly designed, and comfortable. The generously proportioned floorboard allows flexibility in foot positioning to maintain a comfortable riding position, while extended footboards up front let the rider extend their legs for greater comfort when cruising.

Practicality comes from ample storage space under the seat, convenient dual utility hooks, a pair of handy front compartments, and a standard-equipment USB outlet for charging smartphones.

With its elegant styling and combination of performance, manoeuvrability, comfort, practicality, and convenience, the new Burgman Street 125EX is tailored to be the right fit for any discerning rider.



2. Product concept

Key product features

Styling design:

- Elegant urban styling with luxurious yet dynamic body lines
- Futuristic front cowling with body-mounted windscreen
- Split-lens body-mounted LED headlight with integrated LED position lights is bright, power efficient, durable and adds a luxurious touch
- Wide LED rear combination light with integrated turn signals
- Distinctive raised metallic-finish emblems add an extra touch of elegance
- Distinctive muffler design is both stylish and functional
- Multifunction digital instrument panel provides all the information the rider needs

Engine features:

- Advanced Suzuki Eco Performance Alpha (SEP- α) engine technology
- Simple, reliable, air-cooled SOHC engine design with a proven track record
 - *Over five million SEP engines in use worldwide*
- Engine Auto Stop-Start (EASS), a first on a Suzuki motorcycle or scooter, reduces fuel consumption and emissions while contributing to quieter operation
- Silent Starter System provides smooth, quiet starts and restarts for a more refined riding experience
- Combines powerful acceleration and output with low fuel consumption
- Excellent low and mid-range torque contributes to quick acceleration
- Powerful torque output excels in stop-and-go traffic, and when riding with a pillion
- Compact and lightweight air-cooled engine package contributes to fuel efficiency and better handling
- Optimisations throughout the engine aim to deliver ideal combustion efficiency
- Low-friction engine design reduces friction loss for greater reliability and power
- Euro 5 emission standards compliant for environmentally responsible performance

2. Product concept

Chassis features:

- Lightweight, rigid frame minimises weight and contributes to better handling
- Suspension delivers solid road-holding performance and a comfortable ride
- Dunlop D307 N tyres provide greater stability and comfort
- Cast aluminium wheels are lightweight and add style
- Combined Brake System supports well-balanced braking by distributing braking force to both the front and rear wheels when the left brake lever is operated
- Long wheelbase provides greater straight line stability
- Ample ground clearance for leaning into corners and ably handling bumps in the road
- 5.5 litre fuel tank helps extend riding range
- Double-stitched seat with thick padding affords rider and passenger plenty of room and comfort
- Roomy floorboard and separate footboards up front for extending legs helps the rider maintain a comfortable riding position
- Rear carrier with integrated grab bar adds convenience and extra reassurance for the passenger
- Compact body-mounted windscreen adds a touch of elegance

Practical features:

- A USB outlet inside the covered left front storage compartment can be used to recharge smartphones
- Easy access right front storage pocket
- 21.5 litre underseat utility compartment is convenient for storing a variety of items
- Dual utility hooks are handy for carrying shopping bags and other items
- Two thick, strong underseat hooks can be used to hang helmets when parked
- Theft deterrent key system with seat opener function adds convenience and security
- Standard equipment centre and side stands offer greater parking flexibility

3. Styling design

The Burgman Street 125EX design concept was: Unassuming elegance

The concept aims to deliver the look of luxury and sophistication, with elegant lines and a sense of volume from its striking bodywork to the red stitching on the seat, distinctive lighting and attention to detail; everything speaks of quality. The design is tailored to be the right fit for customers who want their ride to make a personal statement.



3. Styling design

Distinctive emblems with bright metallic finish

Both the raised lettering of the nameplates on the side panels below the seat and the Suzuki logo front and centre feature an attractive metallic finish with a luxurious feel.



Distinctive muffler design

The Burgman Street 125EX features a sporty, upswept muffler with sharp lines that heighten its look of quality. The design allows the rear wheel to be removed with the muffler in place, so improves serviceability.



4. Engine

Introduction



Suzuki Eco Performance Alpha (SEP-α) engine technology

The new Burgman Street 125EX is the first Suzuki to adopt Suzuki Eco Performance Alpha (SEP-α) engine technology. The result is an engine that features an outstanding level of environmentally responsible performance, both in terms of low fuel consumption and low emissions. At the same time, it achieves the seemingly contradictory feature of excellent dynamic performance, with powerful acceleration and exciting off-the-line response.

The new Engine Auto Stop-Start (EASS) system reduces fuel consumption and emissions when active, proving highly beneficial when stopping for traffic lights or riding in stop-and-go traffic. As a result, the new Burgman Street 125EX achieves outstanding fuel efficiency of 141.24mpg and limits CO₂ emissions to 46g/km in WMTC mode testing when EASS is switched on.

Swift acceleration performance comes with a subtle twist of the throttle thanks to the engine delivering peak horsepower of 8.6PS at 6,500 rpm and maximum torque of 10.0Nm at 5,500 rpm. Its torque output means it excels in stop-and-go traffic, even when carrying a passenger.

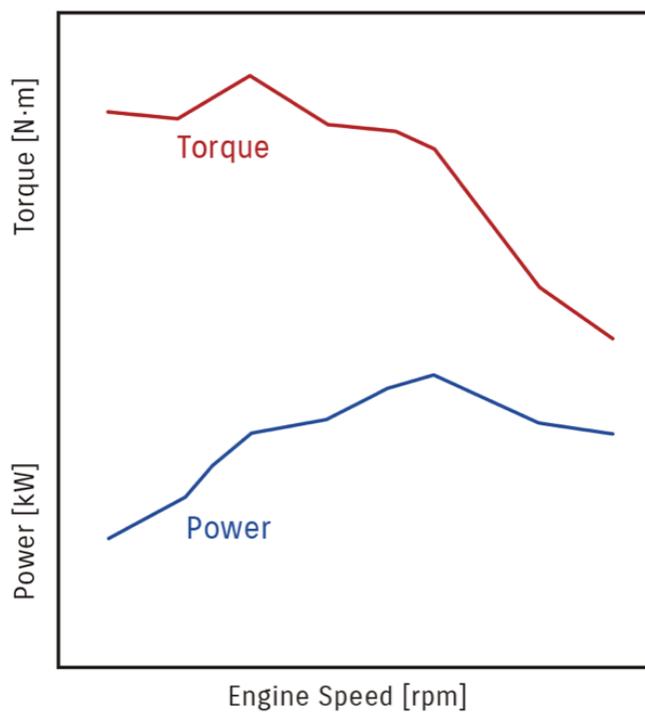
The engine's single-cylinder air-cooled design makes it a reliable powerplant that is easy to maintain and economical to run. Aside, its compact and lightweight design contributes to agile handling performance.

Though being introduced into the UK market for the first time, the SEP-alpha engine advances and refines technologies inherited from the SEP engine, a powerplant with a proven track record for both performance and reliability, already powering well over five million Suzuki scooters in Asian and Latin American markets.

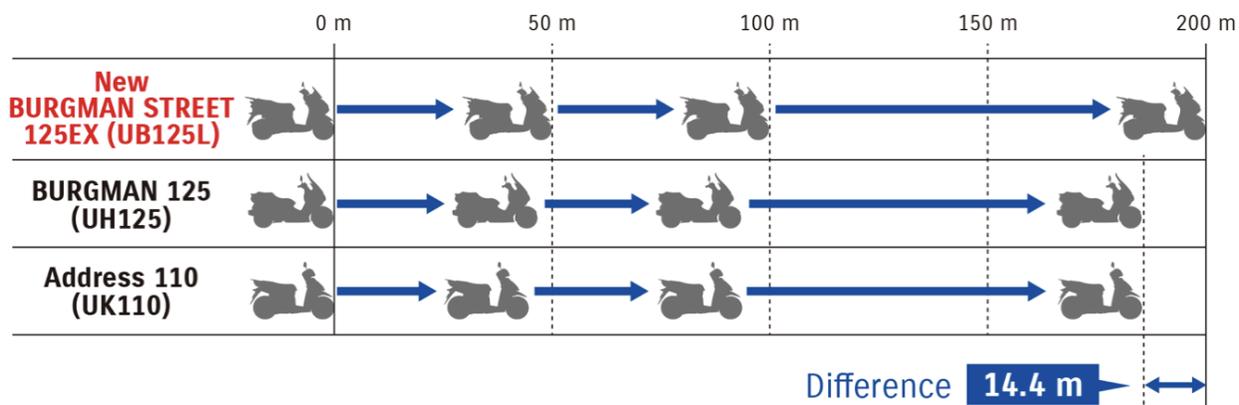
4. Engine

Displacement	124cc
Engine type	Four-stroke, single-cylinder, air-cooled, SOHC
Bore x Stroke	52.5mm x 57.4mm
Maximum power	8.6PS (6.3 kW) / 6,500 rpm
Maximum torque	10Nm / 5,500 rpm
Fuel consumption (WMTC)*	141.24mpg
CO₂ emissions (WMTC)*	46 g/km
Emissions level	Euro 5

Engine Power and Torque



4. Engine Acceleration test comparison



CO₂ emissions and fuel consumption comparison

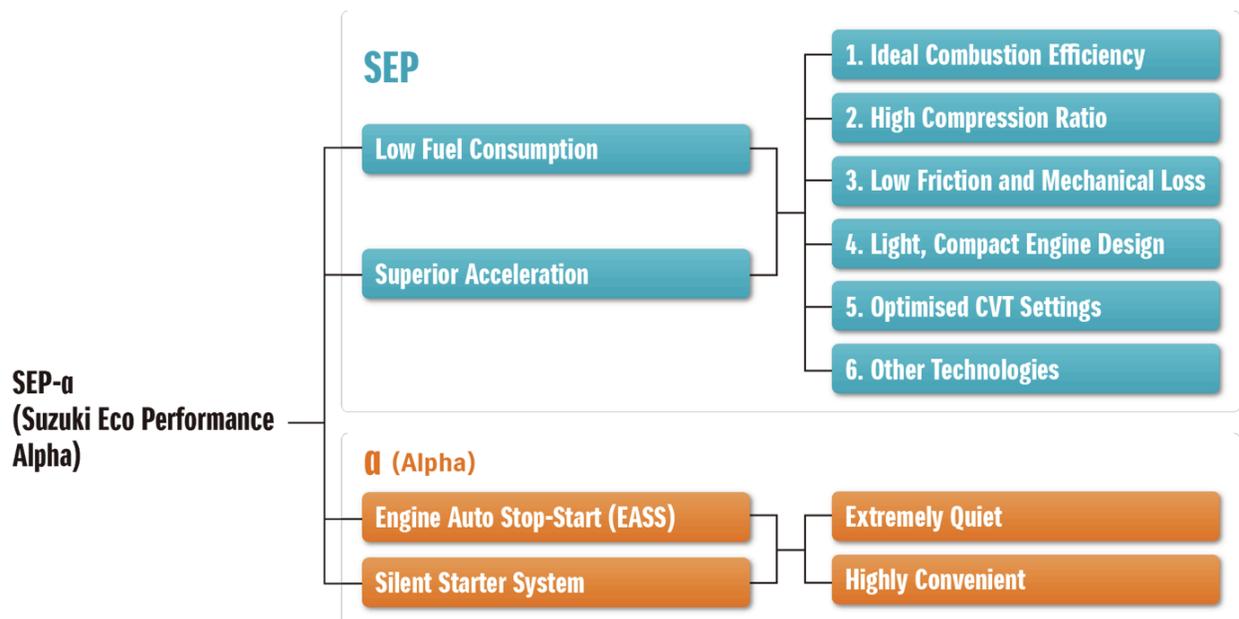
European specification		CO ₂ emissions	Fuel consumption
		g/km	mpg
New model	Burgman Street 125EX	46	141.24
Previous models	Address 110	49	134.46
	Burgman 125	68	94.06
	Burgman 200	75	88.41

4. Engine

Engineering to optimise combustion efficiency, performance and acceleration

Development of the Burgman Street 125EX's SEP- α engine aimed to achieve optimum combustion efficiency and a relatively high compression ratio, while at the same time reducing friction loss, minimising weight and noise, and optimising the CVT settings to put maximum power to the road in an efficient manner.

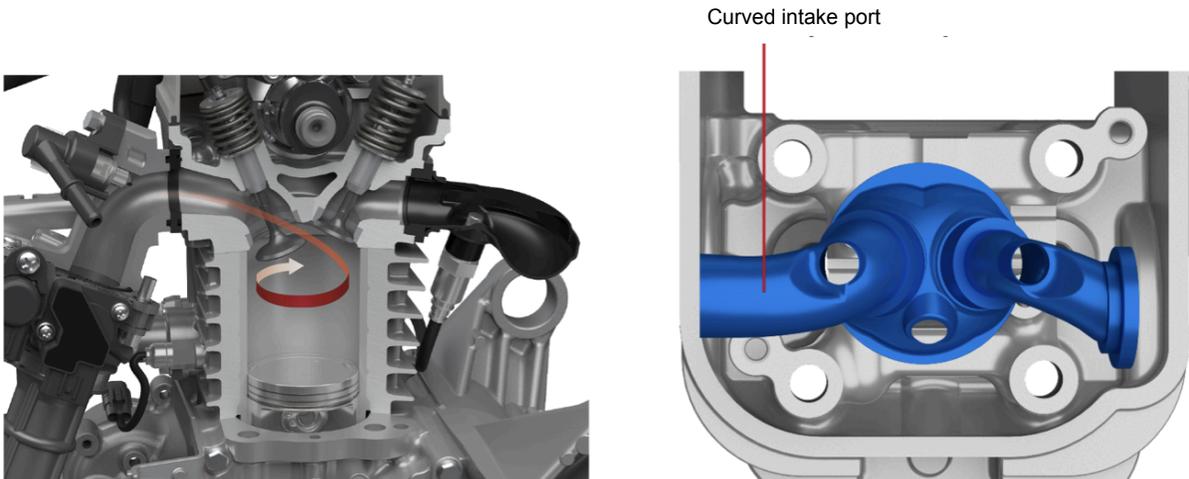
SEP is the development concept behind a new generation of engines from Suzuki that combine both a high level of fuel efficiency and excellent acceleration performance. The new Burgman Street 125EX further advances this concept by introducing Suzuki Eco Performance Alpha (SEP- α) engine technology for the first time. With the addition of Engine Auto Stop-Start (EASS), a new idling stop system, and Suzuki's new Silent Start System, SEP- α distinguishes itself by enhancing the user experience while at the same time achieving a high levels of fuel economy and quiet operation.



4. Engine

Ideal combustion efficiency

Optimisation of the intake port's shape maximises the flow velocity of the air-fuel mixture entering the combustion chamber. It combines with a chamber designed using analytic technology to generate a swirl flow that effectively disperses the mixture and controls combustion speed. The overall result is lean burning and excellent combustion efficiency that contribute both to enhancing performance and meeting Euro 5 emissions standards.



Suzuki 'M-Squish' combustion chamber

One feature of the combustion chamber shape is its M-shaped squish area, which generates squish flow within the chamber. In conjunction with the curved intake port, this creates ideal combustion conditions by leveraging the synergistic effect of the squish flow and the swirl flow of the air-fuel mixture entering the chamber.



4. Engine

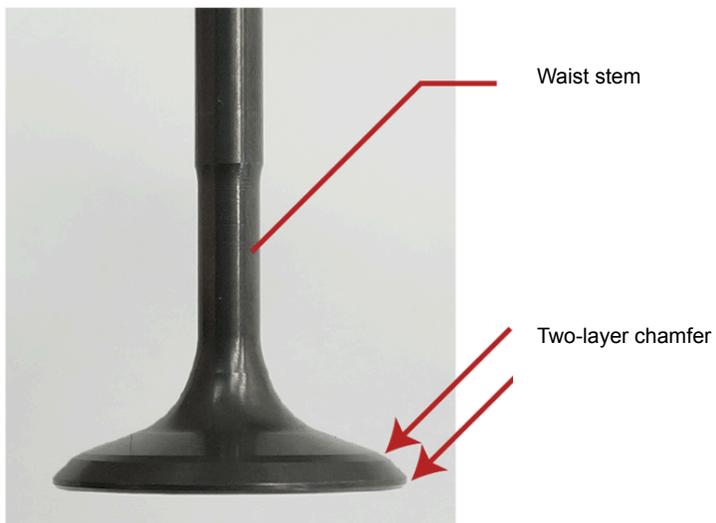
Electronic fuel injection

The adoption of electronic fuel injection contributes to the Burgman Street 125EX's excellent combustion efficiency and helps achieve Euro 5 compliance.



Optimised intake valve shape

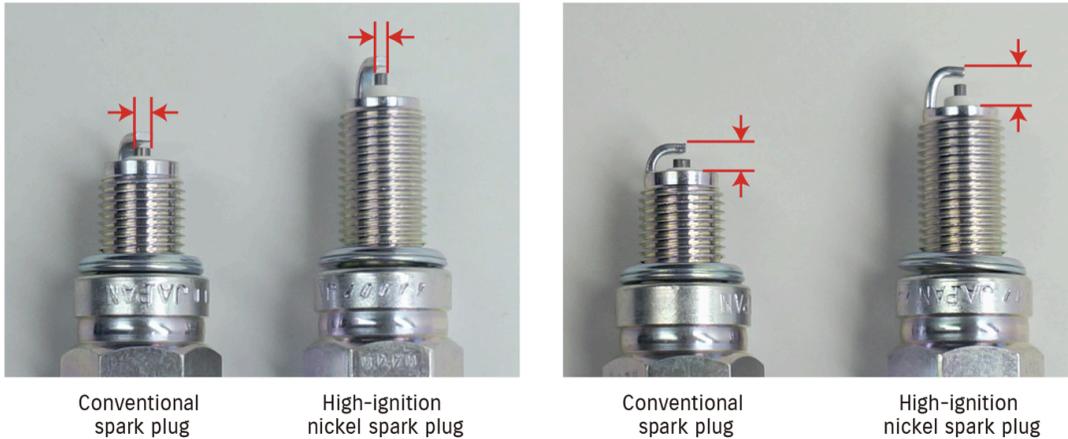
The design of the intake valve, with its two-layer chamfer and waist stem, further contributes to the overall efficiency of the intake system.



4. Engine

High-ignition nickel spark plug

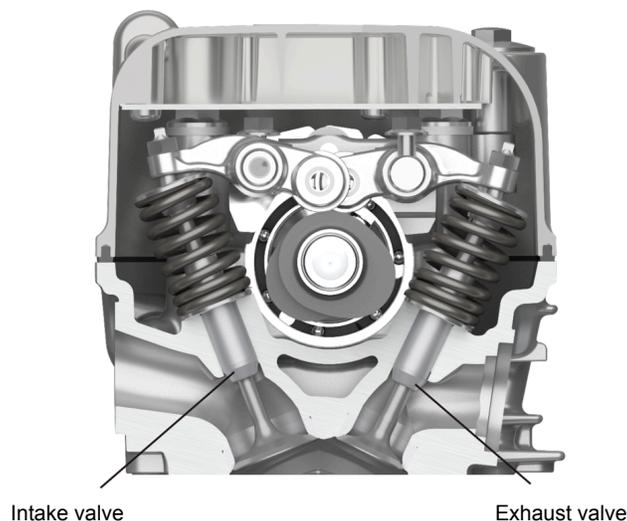
The use of a spark plug with a thin, protruding electrode allows ignition at the centre of the combustion chamber, achieving maximum combustion efficiency. In addition, positioning the plug close to the cooling fan makes it possible to moderate the temperature area around the plug, resulting in ideal combustion.



High compression ratio

All aspects of the engine design are geared to achieving a high compression ratio that results in low fuel consumption and powerful engine output. This ranges from the application of a relatively long stroke to optimisation of the combustion chamber shape, which, as described above, adopts an M-shaped squish area and curved intake port.

Upright positioning of the intake valve and a relatively narrow angle between the valves contributes to intake efficiency and aids the engine's high compression ratio. The design of the intake valve, with its two-layer chamfer and waist stem, further contributes to the overall efficiency of the intake system.



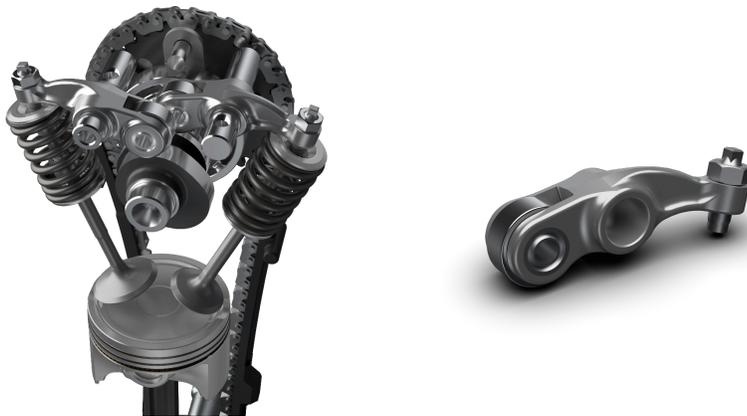
4. Engine

Low friction and mechanical loss

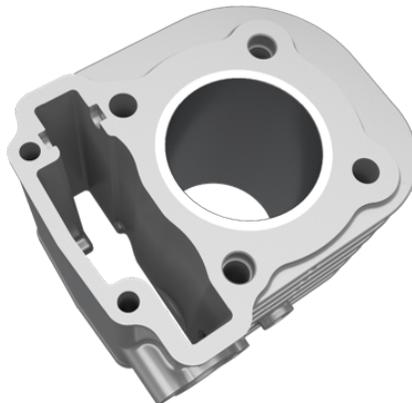
Measures to reduce friction and mechanical loss to achieve greater reliability and produce power at high rpm include an optimised piston skirt and piston pin design, as well as the use of low-tensile piston rings, a low-friction cylinder wall treatment, roller rocker arms, and low-friction components in the oil pump.



Piston and rings



SOHC 2-valve engine with rocker arms



Cylinder

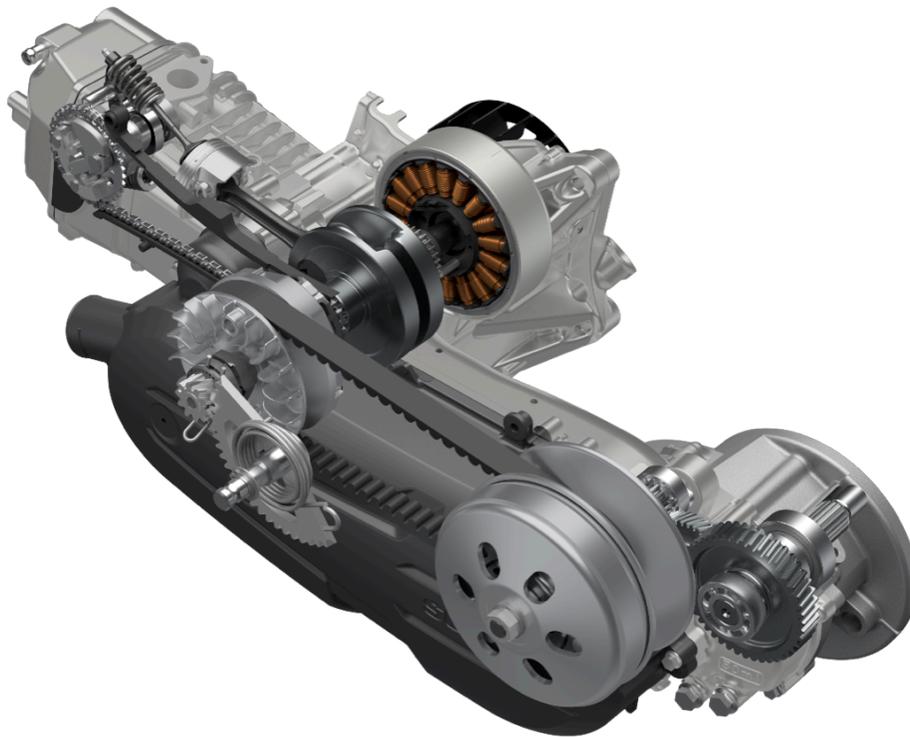
4. Engine

Light, compact engine design

A dedicated effort by Suzuki engineers to minimise the weight of every part possible combines with the engine's reliable single-cylinder, air-cooled design to produce a light and compact powerplant that weighs just 32.5kg. The resulting benefits not only include greater fuel efficiency, increased performance and more powerful acceleration, but they also contribute to agile handling and greater flexibility in styling design.

Optimised CVT settings

The CVT is optimised to provide satisfying acceleration at low rpm, without having to open the throttle excessively, while its settings are also effective in limiting fuel consumption.



4. Engine

Other components that contribute to fuel economy, low emissions and durability

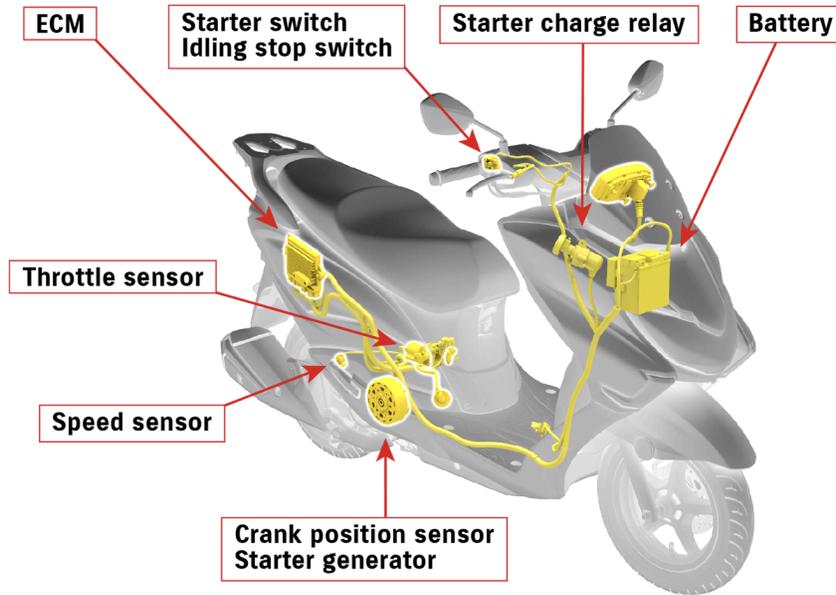
- The efficient cooling path of the cylinder head and use of a small cooling fan improve heat dissipation
- An oil filter function integrated within the engine shortens the oil path and uses a smaller volume of oil, thereby contributing to reduced mechanical loss related to the oil pump
- An electrical switch that controls ignition timing contributes to smooth power production from low to high rpm, as well as low fuel consumption
- The use of a silent cam chain contributes to a reduction in mechanical noise
- A catalytic converter fitted inside the exhaust system helps achieve Euro 5 compliance



4. Engine

Engine Auto Stop-Start (EASS)

The Burgman Street 125EX is the first Suzuki motorcycle or scooter to adopt the new EASS stop-start system, which automatically shuts down the engine to reduce the amount of time the engine idles, and then restarts it when the rider turns the throttle to continue riding. This reduces fuel consumption and emissions, so proves particularly beneficial when stopping for traffic lights or when stuck in stop-and-go traffic.



Light off	EASS cannot be used
Light on	EASS can be used
Flashing light	EASS active



4. Engine

Silent Starter System

Also a first on a Suzuki motorcycle or scooter, the new Silent Starter System starts the scooter smoothly and quietly. The system also works in conjunction with the idling stop function of EASS to silently restart the engine when the rider turns the throttle to resume riding. The engine comes to life smoothly, as if it had been running the entire time.

Because the Silent Starter System combines the functionality of a starter motor and a generator that charges the battery and powers the electrical system, it eliminates the need for a separate starter motor or generator. Connecting directly to the crankshaft, it also eliminates the use of reduction gears along with the noise caused by their use. This results in the smooth, quiet starts and more fuel-efficient operation that deliver a better user experience.



Right handlebar switch



Starter generator & ECM



5. Chassis

Introduction

The new Burgman Street 125EX is designed to be comfortable to ride and to provide stable handling while still being highly manoeuvrable. Seat height and floorboard space are designed to suit a wide range of riders and help ensure riding comfort, even on longer rides. Straight-line and cornering stability are excellent, with high ground clearance that enables riders to lean into their turns. The Burgman proves its ability to excel in any urban riding situation.



5. Chassis

Lightweight and rigid pipe frame

The product of repeated simulations that employed CAE technology, the underbone frame is built using large-diameter, thin, round pipe. Designed to minimise weight while maximising rigidity, this frame contributes to the Burgman Street 125EX's outstanding fuel efficiency as well as to providing excellent straight-line stability and positive cornering performance.



Suspension

The moderately firm setting for the front suspension helps achieve a smooth ride quality, with the spring rate and operation of the front forks optimised for the front wheel weight distribution. Settings for both the forks and rear suspension are finely tuned to the tyres and wheels to achieve a fine balance of stability, road-holding performance, agile handling, and a comfortable ride, even when passing over uneven surfaces.



5. Chassis

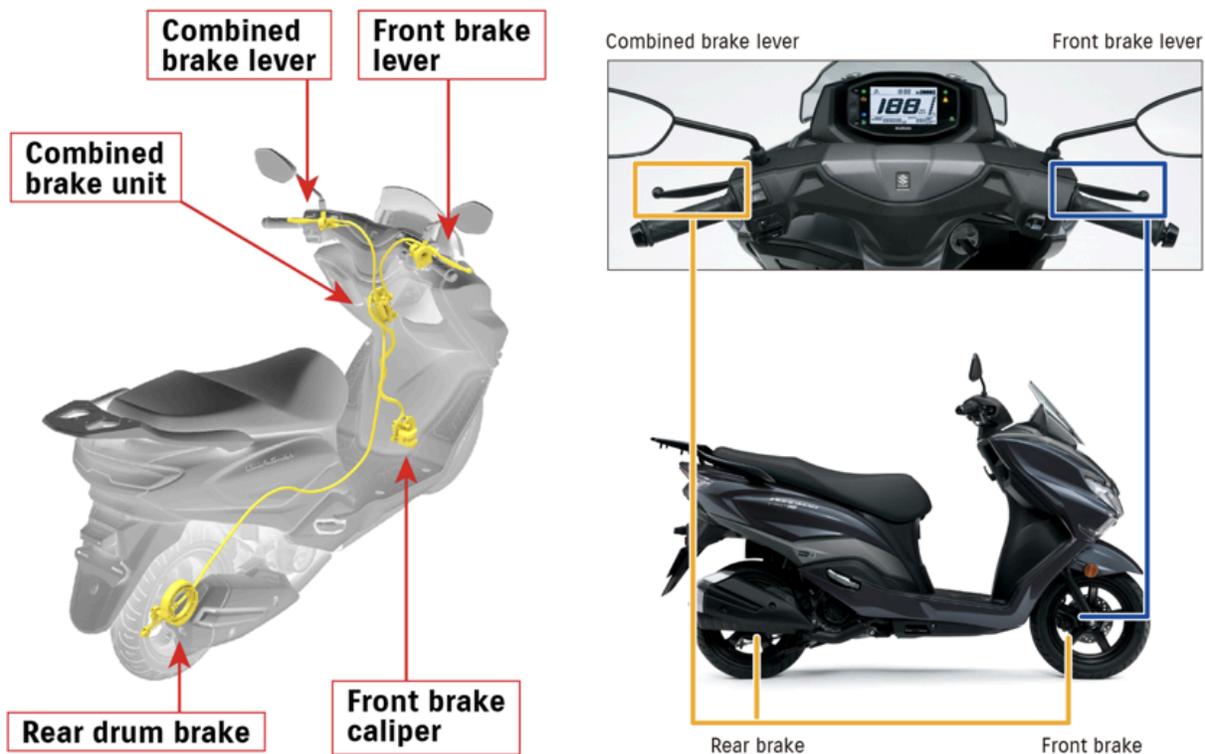
Cast aluminium wheels and Dunlop tyres

The cast aluminium wheels are shod with tubeless Dunlop D307 N tyres. These combine with tuned suspension settings to deliver superior running performance, positive grip on wet surfaces, and a smooth ride. The rear wheel can also be removed without removing the muffler. This improves serviceability.



Combined Brake System

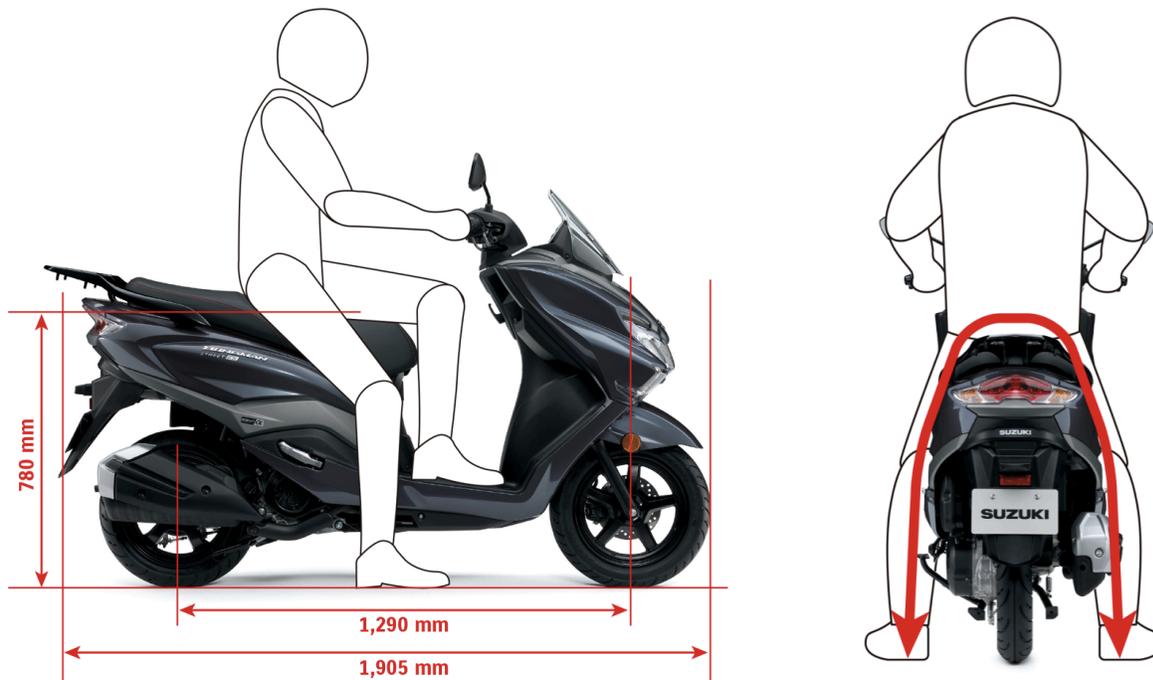
Suzuki's Combined Brake System supports well-balanced braking by distributing braking force to both the front and rear wheels when the left brake lever is operated. Stable stopping power is provided by a 190mm diameter disc brake in the front and a 130mm drum brake in the rear.



5. Chassis

Long wheelbase great stability

With its long, 1,290mm wheelbase, the new Burgman Street 125EX boasts great straight line stability, ensuring a solid, planted feel and comfortable ride.



Plenty of ground clearance

The Burgman Street 125EX handles speed bumps, uneven surfaces, and other bumps in the road with ease thanks to its ample ground clearance of 160mm and rear tyre size. And it does this while combining with a seat shape that helps make it easy to place both feet on the ground.



5. Chassis

Fuel tank supports a long riding range

The Burgman Street 125EX gets a 5.5 litre fuel tank which, in conjunction with the fuel-efficient engine, helps achieve a riding range of approximately 180miles.

Luxurious seating

The Burgman Street 125EX affords both rider and pillion plenty of room with a long seat that is well-padded and designed to maximise comfort. Red stitching adds an elegant highlight. In addition, its carefully crafted shape makes it easy to plant both feet on the ground when stopped. Aluminium pillion footpegs fold out to offer the passenger a more comfortable ride and tuck away neatly when not in use.



Roomy floorboard and extended footboards

The spacious floorboard allows flexibility in foot positioning to maintain a comfortable riding position, plus extended footboards provide extra space to provide greater comfort when cruising. The cut-away design at the rear of the floorboard also makes it easy to get on and off the scooter and place feet on the floor.



5. Chassis

Rear carrier with integrated grab bar

A rear carrier with an integrated grab bar is standard equipment on the Burgman Street 125EX. The carrier can be used to mount the optional top case available as a genuine accessory.



Body-mounted windscreen

The windscreen helps enhance comfort while also adding an extra touch of classy styling.



Underseat storage

The underseat compartment features a capacity of 21.5 litres and provides convenient space to store items and protect them from the elements.



Two underseat hooks

Two individual hooks at the front of the underseat compartment make it easy to hang two helmets when parked by opening the seat, attaching the helmet straps and then closing the seat.

5. Chassis

Dual utility hooks

A pair of sturdy hooks let you hang various types of bags, including shopping bags, with greater convenience than accessing the underseat storage. The back hook can be locked to better secure items, and can be folded out of the way when not in use.



Centre and side stands are both standard equipment

The Burgman Street 125EX is equipped with both centre and a side stands as standard.



5. Chassis

Covered front left compartment

The covered left-side front compartment is large enough to accommodate a large-screen smartphone.

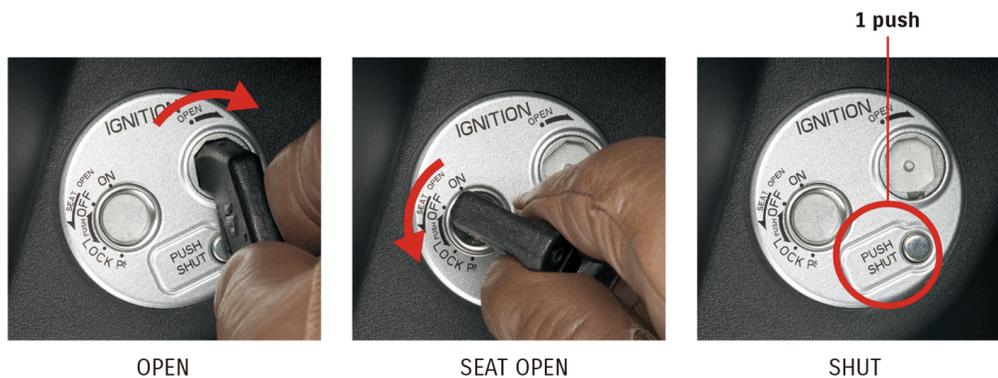
Quick-access front right pocket

The inner pocket on the front right side offers storage space large enough to hold a 500ml beverage or some other small item the rider may want to keep close at hand.



Theft deterrent key system with seat opener function

The shutter concealing the ignition key hole can be opened quickly, using an easy-to-operate magnet mechanism coded to the owner's key and closed with a simple push of a button. Not only does this system help deter theft and tampering, it also includes a seat opener that eliminates the need to remove the key to access the underseat utility compartment.



OPEN

SEAT OPEN

SHUT

6. Electric equipment

Multifunction digital instrument panel

The body-mounted, digital instrument panel features a compact LCD screen with a clean and intuitive layout that displays all the information the rider requires. It is illuminated to maximise visibility both day and night. The panel's LCD readouts include the speedometer, clock, current fuel consumption, average fuel consumption (x2), engine temperature, odometer, dual trip meters, fuel gauge, battery voltage meter, and oil change interval reminder.

LED indicators flanking the main screen include the turn signals, Engine Auto Stop-Start (EASS) indicator, Eco Drive Indicator, master warning, high beam and malfunction. The Suzuki Eco Drive Indicator lights up when the scooter is being ridden in a fuel-efficient manner, offering instant feedback that can help the rider learn techniques for maximising fuel economy.



LED headlight with integrated LED position lights

Mounted low on the front cowl and featuring a distinctive split lens design, the headlight gives a luxurious touch to the face of the new Burgman Street 125EX that also conveys its lineage as a member of the Burgman series. The headlight assembly employs bright, long-lasting, low-power LED lights that improve forward visibility at night. Being body-mounted, the design also contributes to agile handling.



6. Electric equipment

Integrated LED rear combination light

The LED rear combination light with integrated turn signals adds to the overall look of elegance by highlighting the attractive styling of the tail section.



USB outlet included as standard equipment

In the covered front left compartment there is a USB outlet for charging smartphones. An attractive blue LED remains lit as long as the ignition is turned on, making the outlet easy to locate, especially at night or in dark conditions.



7. Genuine accessories



Plastic top case (27L)

A large-capacity top case adorned with the Suzuki logo



Cushion for top case

This accessory provides well-cushioned padding where the passenger's back meets the top case, improving comfort



Top case adapter plate

Required to install the plastic top case.



Pillion grab handle

Provides the passenger a handle to grab onto. Also gives the vehicle a stylish look. Replaces the originally equipped rear carrier.



Heated grips

Keeps hands warm in chilly conditions with five levels of heat settings.



Accessory mount bar

This accessory enhances convenience by enabling you to attach devices

8. Colour lineup

Pearl Moon Stone Grey (YWC)



Pearl Mirage White (YPA)



Metallic Matt Black No.2 (YKV)



9. Specification

Overall length	1,905mm (74.6 in.)	
Overall width	700mm (28 in.)	
Overall height	1,140mm (46.3 in.)	
Wheelbase	1,290mm (49.8 in.)	
Ground clearance	160mm (6.3 in.)	
Seat height	780mm (30.7 in.)	
Kerb mass	112kg (235.9 lbs.)	
Engine type	Four-stroke, single-cylinder, air-cooled, SOHC	
Bore x stroke	52.5mm x 57.4mm (2.1 in. x 2.3 in.)	
Engine displacement	124cc (7.6 cu. In.)	
Peak power	8.6PS (6.3 kW) / 6,500 rpm	
Peak torque	10Nm / 5,500 rpm	
Compression ratio	10.3 : 1	
Fuel system	Fuel injection	
Starter system	Electric and kick	
Lubrication system	Wet sump	
Transmission	CVT	
Suspension	Front	Telescopic, coil spring, oil damped
	Rear	Swingarm type, coil spring, oil damped
Rake / trail	26° / 90mm (3.5 in.)	
Brakes	Front	Disc
	Rear	Drum
Tyres	Front	90/90-12, tubeless
	Rear	100/80-12, tubeless
Ignition system	Electronic ignition (transistorised)	
Fuel tank capacity	5.5 litres	
Fuel efficiency / range	141.24mpg / 180 miles	
CO ₂	46g/km	
Emissions standard	Euro 5	
Oil capacity (Overhaul)	0.8 litres	

ENDS