

2005 SH125i/SH150i

Compact and stylish moulded resin rear carrier that doubles as a comfortable hand grip for pillion passengers. Carrier also specially designed with moulded-in attachment points for quick and easy mounting of the SH's exclusively designed 35-litre top box, which clips directly onto the carrier. No other mounting hardware is required.

More thickly padded seat combines with more spacious floorboard area to provide superb long-term riding comfort. New, more tapered contours provide an easier reach to the ground for shorter riders. Seat opens to reveal an ample-sized carrying compartment for holding a 'semi-jet' style helmet or other travelling essentials.

Attractively integrated wide-face instrument panel includes large, easy-to-read central speedometer surrounded by coolant temperature and fuel gauges for a sleek and modern design. Indicator lights and large LCD clock are positioned in easy view above the instrument panel.

Wide range of optional equipment includes wide-coverage windscreen, exclusively designed 35-litre clip-on top box, integrated electronic ignition security system and a lower-profile seat, which extends a greater range of control and comfort to shorter riders.

NEW

Modern and distinctive new bodywork design features fuller proportions and eye-catching front radiator trim. Wider, more comfortable floorboard area tapers at rear for easier, more comfortable reach to the ground.

NEW

Large, fully integrated multi-reflector taillight features an eye-catching 'ringed' pattern around the bulb for a sharper, more modern look and enhanced visibility in traffic



NEW

NEW



NEW

Smoothly curved clear-lens multi-reflector headlight complemented by stylish elongated indicators with clear lenses covering amber bulbs and attractive running lights for a strikingly cosmopolitan look.

Forward locking glove box provides a handy location to hold such small essentials as gloves, papers and other articles within convenient reach without having to leave the seat. Shopping bags and other items with handles or straps can be securely hung from the convenient spring-loaded carrying hook located beneath the glovebox.

Combined Brake System provides easy, confidence-inspiring braking control. This highly effective system combines a single 220mm hydraulic dual-piston calliper front disc brake with a 130mm standard, cable-operated rear drum brake for a responsive balance of braking operation, even when only the left-side brake lever is used.

Liquid-cooled 150cm³* SOHC single-cylinder engine features new PGM-FI programmed fuel-injection system and high-accuracy digital ignition for high performance coupled with low fuel consumption. Advanced HECS3 catalyser system ensures ultra-low exhaust emissions to surpass future EURO-3 emissions regulations for the lowest emissions ever in the entire 125/150cc class.



NEW

Smoothly responsive 33mm motorcycle-type front fork combines with a rugged dual-dampers rear suspension to provide a comfortable, sure-handling ride over Europe's widely varying road surfaces, even when carrying a passenger and loaded top box.

2005

SH150i

SH125i

PRESS INFORMATION

Introduction

The 125/150cc scooter class is easily one of the largest segments of Europe's diverse motorcycle market. While the 125cc class is fuelled by new generations of riders coming of age and wanting to join the free-spirited motorised crowd, the 150cc class draws its customers from all age groups, salary levels and ranges of experience, whether recently licensed users or seasoned riders simply looking for easy and economical transport.

Until recently, 50cc 2-stroke scooters made up the bulk of the entry-level scooters for young people. However, tightening exhaust emissions restrictions and greater concern for the environment have greatly limited their production. These 2-stroke scooters are gradually being replaced by cleaner and quieter 4-stroke offerings, notably including the growing 125cc class of scooters, which offer better performance and easier two-up riding capability and comfort, although requiring a learner's permit to ride. Likewise, in response to growing concerns for preservation of the environment and reduction of pollution, advanced computerised fuel injection systems are easing this new generation of 4-stroke scooters into an even cleaner new age of stricter EURO-3 exhaust regulations, which are scheduled to go into effect in 2006.

The 125/150cc scooter class has also been spurred by an ever-growing number of smart urban commuters looking to find an easier path through the frustrating snarls of rush hour traffic that slow to a crawl in both towns and cities. These riders also find the scooter an effective way to avoid the time-consuming and often expensive hassle of car parking experienced in urban centres everywhere. And perhaps one of the modern scooter's most important recently rediscovered attractions is its quick, convenient and economical way of helping one run errands, get around, or just enjoy a day out with friends.

Honda now offers a wide selection of scooters in the 150 and 125cc classes, each featuring a distinctive image and sense of style, but all powered by advanced liquid-cooled 4-stroke engines which offer all the advantages of strong performance, quiet, dependable operation and ultra-low exhaust emissions.

First introduced to wide acclaim and phenomenal popularity in 2001, the SH150/SH125 pair of 'big wheel' scooters have won great praise and Europe-wide renown for offering a slim, sleek, integrated design based on a delightfully easy-handling 16-inch diameter wheel configuration. The SH150 and SH125 combine superb style and convenience, strong performance, satisfyingly economical and reliable

operation, and exceptional comfort for a broad cross-section of riders and commuters. Even in the face of strong competition from an ever-growing number of new 'big wheel' scooters, these two popular machines have continued to enjoy booming sales that have positioned them at the top of their respective 150cc and 125cc scooter classes.

Now, for 2005, with fuller, even more comfortable proportions and the cutting-edge technological advancement of new fuel injection and low-emissions systems, the new SH150i and SH125i impressively herald Honda's latest step in creating the next generation of light, dependable and economical transportation, which anybody can enjoy to the full, whether daily commuting, running errands, or just stepping out for a carefree ride around town.

Development Concept

Setting their sights on the firm goal of broadening the SH's appeal while bringing it up to date with the latest trends in design, technology and environmental compatibility, the SH150i/SH125i's dedicated team of development engineers set out to give the next generation of this popular 'big wheel' scooter an evolutionary makeover that builds on all its established strengths with a more comfortable ride, attractive good looks, smoother performance and some of the cleanest exhaust emissions in its class.

Like its popular earlier version, the new 2005 SH150i/SH125i features a sleek design based on a big 16-inch wheel configuration that offers confidently easy handling over nearly all the road surfaces its rider is likely to encounter. Setting it apart from its predecessor, the new version was redesigned with a new, more fulsome form that offers improved wind protection and an all-round enhancement in its feeling of space and comfort.

In the interests of environmental protection and meeting the demands of stricter new EURO-3 emissions regulations scheduled to come into effect in 2006, the new SH150i/SH125i's development team decided from the start to equip its strong and reliable liquid-cooled 4-stroke engine with Honda's latest fully integrated and computerised fuel injection system for small-displacement engines. First introduced on the Honda Pantheon, this remarkably compact system not only delivers top performance combined low fuel consumption, it also makes possible the addition of Honda's most advanced HECS3 oxygen-sensing low-emissions system for some of the cleanest exhaust emissions in its class, and a major step toward a new future of environmentally friendly vehicles.

With such features as its responsive Combined Brake system, handy under-seat storage compartment and enhanced convenience features carried over from its original design concept, the new SH150i/SH125i provides the ultimate in effortless control, clean, responsive operation and day-to-day ease of use in a stylish, high-quality scooter for every occasion.

Designed to appeal to the needs of a broad cross-section of commuters, businesspeople and young new riders looking for a quick and easy means of getting around town and country, the new SH150i and SH125i's will surely establish themselves as even more popular fixtures on the European motorcycle scene for many years to come.

Styling

Following its 2001 debut, the SH150i/SH125i swiftly grew to become a popular favourite of urban commuters and people of all ages drawn to its slim, elegantly curved lines, big wheels and satisfying performance. Comfortable proportions in a sleek and well-considered design are hallmarks of the SH's high-class appeal, and have played a large role in its leading standing in the 125cc scooter class.

With its more distinctive European sensibility and strong sense of urban style, the new 2005 SH150i/SH125i represents a major step in the further evolution of the 'big-wheel' city scooter. Keeping many of the design highlights that have won it a wide following, including its wide floorboard and front-mounted radiator, the new SH features wider and fuller proportions than its predecessor, for both a more refined image and a more comfortable ride.

The wider proportions of the new SH150i/SH125i's bodywork also offer enhanced protection from the elements, allowing it to slip through the air with less wind buffeting and greater ease and comfort. The SH's new design also features a wider floorboard that not only offers more ample legroom—a blessing for taller riders—but also better protection for expensive clothes against thrown up water and road grime.

Seating on the SH has also been further refined, with an added 10mm of seat foam thickness combining with a new tapered contour to offer both a more plush and comfortable ride, and an easier reach to the ground for riders of all sizes. The locking seat also now opens with a simple turn of the ignition key, rather than using a separate key lock, for greatly enhanced operating convenience.

The SH150i/SH125i's fuller, more curvaceous new look is highlighted by a large, new clear-lens multi-reflector headlight designed to provide maximum illumination over a wide area for excellent night-time visibility. The front bodywork also incorporates distinctive, new front indicators into its design, which feature long, tapered shapes with amber-coloured bulbs and new always-on position lamps positioned behind clear plastic lenses.

The SH150i/SH125i's tapered tail terminates in a new multi-reflector taillight that features a distinctive and eye-catching new look. Its clear curved lens displays a unique multi-dot pattern that accentuates the SH's modern appeal while drawing attention to its all-important brake light.

Colouring

The new SH150i and SH125I take to the urban centres of Europe and beyond in a range of five attractive new colour variations that accentuate their modern and attractive new lines and wider proportions with the deep lustre of fine quality and cosmopolitan style. Leading the way is a brilliant new metallic silver that complements the SH's chrome trim for a look of sparkling elegance.

Other colours include a vivid pearlescent blue, which projects a lively and sporty image of riding fun, a subdued and businesslike metallic grey that emphasises the SH's look of prestige, a dark and regal metallic red, and a lively light metallic blue which brightens the SH's appeal and sense of riding fun.

Colours

- Quasar Silver Metallic
- Pearl Montana Blue
- Cynos Grey Metallic
- Velvet Red Metallic
- Iceland Blue Metallic

Engine

The new SH150i (and SH125i) gets its lively performance from the same quiet, strong and reliable liquid-cooled 4-stroke engine that has powered it (and several other models in the Honda scooter lineup) since its 2001 debut. Providing a solid delivery of low-to-midrange torque for quick take-offs and smooth acceleration, this highly efficient engine also features excellent fuel economy and low running costs, not to mention less polluting exhaust emissions.

Mounted in the same location as most scooters, under the seat as an integral part of the chassis' one-piece 'unit' swingarm, the SH's compact, forward-facing engine has its radiator positioned up front, just below the headlight, where it receives a full blast of cooling air whenever it's on the move, assuring stable operating temperatures and performance on even the hottest days. This liquid-cooled configuration also contributes to the engine's greatly reduced mechanical noise while playing a critical role in stabilising operating temperatures to make possible more exacting control of exhaust emissions.

New PGM-FI Electronic Fuel Injection System

One of the biggest updates in the new SH150i/SH125i is the addition of a new fully digital Programmed Fuel Injection (PGM-FI) system. Like the system that made a revolutionary debut in 2003 on the current Honda Pantheon, this remarkably compact and highly integrated system is a miniaturised adaptation of Honda's most advanced electronic fuel injection technology to small-displacement engines. Remarkably efficient in operation, this fully electronic system is now setting new standards for fuel economy and clean emissions, while providing exceptionally strong, smooth and reliable performance.

Like the system featured on the Pantheon, and this year's trendy new 50cc Zoomer, the operational heart of this advanced system is integrated into a single compact unit consisting of the throttle body, electronic control unit (ECU), air temperature and pressure sensors, and even the digital ignition. The injector itself is mounted nearby, attached directly to the engine's head, for a straight, precisely timed and metered shot of fuel into the intake port. This compact configuration not only realises remarkably efficient levels of strong performance, its relative simplicity and low cost now make it a technically and economically viable alternative to the conventional carburettor in such low-cost transportation as small commuter scooters.

Economy and low running costs are especially important to daily commuters, and the new SH150i/SH125i really shines in its miserly fuel consumption and long-term, low-maintenance reliability. In fact, the SH's fuel economy averages approximately 34 kilometres per litre of fuel, which adds up to a remarkable range of over 250 kilometres on a single tank full of petrol.

High-Accuracy Digital Ignition

As noted above, the ECU controlling the SH's advanced new fuel injection system also incorporates a fully digital electronic ignition, which optimises combustion characteristics in all starting and riding conditions by precisely adjusting its timing for the highest combustion efficiency through all stages of operation. Its high-voltage, high-accuracy charge also combines with a convenient push-button electric starter to ensure quick and easy starts, and smooth, dependable long-term performance.

Low-Emissions HECS3 Catalyser System

Like the Pantheon and the Zoomer, the 2005 SH150i/SH125i's new electronic fuel injection system makes possible the adoption of Honda's most advanced HECS3 oxygen-sensing catalytic emissions system, which has become a highly regarded feature on its most advanced large-displacement motorcycles. Integrated into the design of a small 125cc engine, this high-accuracy system ensures some of the cleanest emissions to found in a motor vehicle of any type or class powered by an internal combustion engine.

Also completely integrated into the throttle body ECU, this system monitors the fuel injection system's sensors along with an oxygen sensor installed in the exhaust system to precisely maintain the optimal fuel/air mixture for its new 300-cell catalyser element to most efficiently perform the job of minimising carbon monoxide (CO), hydrocarbons (HC) and nitrous oxides (NO_x) which pollute the air. The new SH150i/SH125i achieves some of the lowest emissions levels in its entire class, and will likely exceed projected EURO-3 exhaust emissions standards.

The SH's new HECS3 catalyser system also makes redundant the Programmed Air Induction system used on its previous version, eliminating all its related components and further simplifying the SH150i/SH125i's engine configuration.

Stepless V-Matic Transmission

The SH150i/SH125i's rugged V-Matic belt-converter transmission provides strong, smooth and reliable operation at the turn of the throttle. A high-accuracy torque sensor complements the transmission's wide ratio to take maximum advantage of the engine's strong low-to-midrange torque output to provide strong surges of acceleration—even when carrying a passenger—combined with smooth, linear engine performance.

Chassis

Like its predecessor, the SH150i/SH125i's attractive new design is built on a compact yet rigidly constructed tubular steel frame that provides reassuring handling stability and smoothly confident control, augmented by its large-diameter 16-inch wheels. Its design also features the same wide and flat floorboard area for enhanced riding ease and top comfort in this class of scooter.

Roomier, More Comfortable Riding Proportions

The SH150i/SH125i's upright riding position provides a comfortable reach to the handlebars, and its spacious, contoured seat provides plush, comfortable seating for two, even on longer rides. The SH's low 790mm seat height combines with the bodywork's tapered 'waist' and narrowed proportions in the vicinity of the seat to offer an easy reach to the ground for riders of all shapes and sizes. One prominent SH150i/SH125i design feature is its wide, flat floorboard, which permits easy foot positioning freedom and an effortless slide onto and off the seat, which should be an especially welcome attraction for female riders.

Easy-Handling, More Compliant Suspension System

With its big 16" wheels and ride-stabilising hydraulic suspension systems, the SH150i/SH125i provides responsive handling, a comfortable ride and smoothly assured control to rival many motorcycles. Its sturdy, 33mm motorcycle-type telescopic fork features a full 100mm of travel to soak up bumps while providing remarkably confident handling over such rough road surfaces as cobblestone streets.

At the rear, the SH's compliant dual-damper suspension system features rugged new dampers with triple-rate springs supporting the scooter's solid unit swingarm assembly with a comfortably cushioned 82mm of rear axle travel for superb long-term riding ease. Featuring 3-step adjustable spring preload, this stronger new system provides a confidently controlled ride, especially when fully loaded with a passenger and carrier-mounted top box.

The SH150i/SH125i's biggest attractions are its large, lightweight 16-inch-diameter cast aluminium wheels, which feature a distinctive 5-spoke pattern that complements its attractively curved new bodywork for a look of elegant urban style. These wheels mount wide-bodied 100/80-16 front and 120/80-16 rear tubeless tyres

that provide light, responsive control and enhance riding comfort over virtually all road surfaces and riding conditions.

Easy-Operation Combined Brake System

Like its previous version and many others of the scooters in Honda's lineup, the SH150i/SH125i features the enhanced braking control of Honda's innovative Combined Brake System. Providing unrivalled braking ease and effortless control, this highly effective system combines a single 220mm hydraulic dual-piston calliper front disc brake with a 130mm standard, cable-operated rear drum brake for responsive braking control.

In this simple and easy-operating system, the right-side brake lever controls the front brake calliper just like a conventional motorcycle brake system. The left-side brake lever, however, controls not only the rear drum brake, as in conventional scooter brake systems, it also operates the front calliper by way of an inline equaliser.

This smooth and seamless combination of front and rear brake operation gives novice riders an extra boost in riding confidence and control. Also, since novice riders can sometimes find it difficult to effectively grip the right brake lever while also holding onto the throttle, the SH150i/SH125i's Combined Brake system provides a highly effective balance of front and rear braking control when only the left-side lever is used.

A rear brake lock is also incorporated into the left-side lever, locking into place with a touch of the lock lever and releasing with a squeeze of the brake lever.

Large-Capacity Fuel Tank

The SH150i/SH125i's large 7.5-litre fuel tank combines with the fuel-injected 4-stroke engine's excellent fuel economy (rated at over 34.1km/litre: ECE40 mode) to make daily transport and commuting easy and economical by providing nearly a full week of regular operation between fill-ups. Positioned low in the frame to enhance riding stability, its convenient fuel filler is securely located under the locking seat, directly behind the under-seat storage space.

Equipment

Sleekly Styled Instrument Panel

An attractive, large-face meter panel is cleanly integrated into the top of the SH150i/SH125i's steering head. Its large, easy-to-read central speedometer is surrounded by coolant temperature and fuel gauges, and the whole assembly is recessed behind an attractively styled, resin-framed clear plastic lens. Indicator lights and a large LCD clock are positioned in easy view above the instrument assembly.

Under-Seat Carrying Capacity

As before, the SH150i/SH125i features a compact carrying space under its locking tilt-up seat for welcome carrying convenience and a secure place to store one's helmet. Designed to hold one of the wide variety of stylish 'semi-jet' style helmets that have become popular on the streets of Europe, this space also provides ample room for other essentials, as well as a bit of light shopping whenever the need arises.

Up in front, a slim locking glovebox further enhances the SH's carrying convenience and security, keeping such small essentials as gloves, papers and other articles close at hand without having to leave the seat. Shopping bags and other bulky items with handles or straps can be easily and securely hung from the convenient spring-loaded carrying hook centrally located beneath the glovebox.

Compact, Newly Designed Rear Carrier

Behind the SH's spacious seat resides a compact moulded resin rear carrier that doubles as a comfortable hand grip for pillion passengers. This new carrier has also been specially designed with moulded-in attachment points for quickly and easily mounting a new, specially designed optional 35-litre top box which clips directly onto the carrier and can be secured with a key. No other mounting hardware is required.

Optional Equipment

The SH150i/SH125i will be supplied with a selection of optional parts and accessories to further broaden its range of operating versatility while complementing its cosmopolitan style. These parts include:

Integrated Security System

A simplified version of Honda's highly effective Honda Ignition Security System (HISS) helps owners protect their prized possessions against the threat of potential thieves by disabling the scooter's electronic ignition system. The system is switched on and off with the touch of a convenient electronic key fob, and cannot be hot-wired. This system also features a vibration-sensitive electronic anti-theft alarm that warns off vandals and potential thieves with a penetrating high-decibel shriek.

Wide-Coverage Bolt-On Windscreen

A handsome clear plastic bolt-on windscreen offers a broad area of protective comfort from gusts of onrushing wind, as well as bugs and flying debris. Its lightweight yet tough polycarbonate construction offers superior strength and resistance to chipping and scratches. The kit also includes a set of knuckle visors to assure good handling and driveability while enhancing riding comfort on cold days.

Specially Designed Top Box

A stylish 35-litre top-box has also been specially designed for easy mounting on the SH150i/SH125i matching rear carrier. Painted in matching colours, this unique top box mounts and detaches with the flip of a single lever. No other mounting hardware is required.

Specifications**SH125i (ED-type)****Engine**

Type Liquid-cooled 4-stroke SOHC single
Displacement 125cm³

Fuel System

Carburation PGM-FI electronic fuel injection
Aircleaner Dry, cartridge-type paper filter
Fuel Tank Capacity 7.5 litres

Electrical System

Ignition System Digital transistorised with electronic advance
Starter Electric
Battery Capacity 12V/6AH

Drivetrain

Clutch Type Automatic; centrifugal
Transmission Type V-Matic

Frame

Type Underbone; steel tube

Chassis Dimensions

Dimensions (L×W×H) 2,020 x 700 x 1,140mm

Wheelbase 1,335mm

Seat Height 790mm

Dry Weight 127kg

Suspension

Front 33mm telescopic fork, 90mm axle travel

Rear Dual-damper unit swingarm, 82mm axle travel

Wheels

Type Front U-section 5-spoke cast aluminium

Rear U-section 5-spoke cast aluminium

Tyres Front 100/80–16 50P

Rear 120/80–16 60P

Brakes

Front 220mm × 4mm hydraulic disc with dual-piston calliper,
drilled rotor and sintered metal pads

Rear 130mm leading/trailing drum

All specifications are provisional and subject to change without notice.

Specifications**SH150i (ED-type)****Engine**

Type Liquid-cooled 4-stroke SOHC single
Displacement 153cm³

Fuel System

Carburation PGM-FI electronic fuel injection
Aircleaner Dry, cartridge-type paper filter
Fuel Tank Capacity 7.5 litres

Electrical System

Ignition System Digital transistorised with electronic advance
Starter Electric
Battery Capacity 12V/6AH

Drivetrain

Clutch Type Automatic; centrifugal
Transmission Type V-Matic

Frame

Type Underbone; steel tube

Chassis Dimensions

Dimensions (L×W×H) 2,020 x 700 x 1,140mm

Wheelbase 1,335mm

Seat Height 790mm

Dry Weight 127kg

Suspension

Front 33mm telescopic fork, 120mm axle travel

Rear Dual-damper unit swingarm, 70mm axle travel

Wheels

Type Front U-section 5-spoke cast aluminium

Rear U-section 5-spoke cast aluminium

Tyres Front 100/80–16 50P

Rear 120/80–16 60P

Brakes

Front 220mm × 4mm hydraulic disc with dual-piston calliper,
drilled rotor and sintered metal pads

Rear 130mm leading/trailing drum

All specifications are provisional and subject to change without notice.