

2012 Vision 50

Fun mobility

Press release date: 8 November 2011

Model updates: All-new model; 50cc scooter with advanced safety features; available with 14" or 16" wheels; chassis and engine related to Vision 110.

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1. Model overview

The 2012 Vision 50 has been created to offer reliable, fun mobility at an attractively low price. As a machine intended for daily use by a huge range of customers, qualities such as durability, dependability, safety and ease of use were considered vitally important during development. With a reliable and efficient fuel-injected engine, a stable and easy to ride chassis, the advanced safety of Honda's Combined Braking System and extensive storage space, the Vision 50 represents a smart and reassuring option in the 50cc scooter market.

Central to the Vision 50's strong performance and superb fuel economy is its single-cylinder four-stroke engine. The machine can cover 52 kilometres on a single litre of fuel in normal use, giving a range of over 286km from the 5.5-litre fuel tank. Such a generous fuel range contributes to the machine's convenience and ease of use, as do the large internal storage space, electric start function, stylish instrument display and ergonomically refined seating positions for both rider and passenger.

Despite its advanced specification, the scooter has been designed to be affordable by a wide range of customers. Honda's purchasing strategy allows it to use the most appropriate suppliers throughout the world; two machines were also developed in tandem – the Vision 50 and the more powerful Vision 110. As a result both scooters balance low cost with high quality.

The Vision 50 builds on a proud heritage. The first Honda scooter, the 1954 Juno K, featured a range of advanced technology and materials, and was followed four years later by the revolutionary four-stroke Super Cub. With more than 60 million manufactured worldwide, the Super Cub is the best-selling motor vehicle in history.

2. Key features

2.1 Engine

Convenient four-stroke power NEW

The tough four-stroke engine with PGM-FI fuel injection and electric start offers reliability, ease of use and fuel efficiency.

2.2 Styling

Practical and stylish NEW

The sleek, attractive body design offers comfortable seating for two, a generous storage compartment under the seat and a large 5.5-litre fuel tank, giving a range of over 286 kilometres between fill-ups.

2.3 Wheels

14" or 16" wheel options NEW

The Vision 50 with 14" wheels offer great value for money and agility. For a small premium the 16" front wheel version gives more secure handling on rough roads, particularly the cobbled surfaces found in many European cities.

2.4 Brakes

Combined Braking System NEW

The Vision 50 boasts Honda's Combined Braking System (CBS), which links the front and rear brakes to provide swift, stable braking regardless of rider experience or road conditions.

3. Model details

3.1 Engine

Reliable four-stroke technology

Honda's long expertise in four stroke technology has been used to design a 50cm³ single-cylinder engine that delivers both efficiency and performance, with minimal harmful emissions. The unit is also lightweight and compact, meaning the chassis and body of the scooter could be designed without compromise. The Vision 50's smooth and refined power delivery is strong enough for the rider to feel secure and confident in traffic, with minimal noise and vibration.

Fuel-efficient, low emissions

By choosing air-cooling for the single-cylinder engine, the weight and complexity of radiators and a coolant pump have been eliminated, while the four-stroke technology offers efficiency, ease of use and impressive quietness. A focus on friction reduction, combined with a Programmed Fuel Injection System (PGM-FI) has yielded outstanding efficiency for a typical fuel consumption figure of 52km/l. A tri-metal catalyser is used in the exhaust system to reduce harmful gas emissions to levels comfortably below EURO 3 requirements.



3.2 Practical styling

Unmistakably Honda

Strong, dynamic lines give the Vision 50 a sleek, contemporary style with unmistakable visual links to other, more expensive scooters in Honda's range. The integrated taillight and rear indicators give the rear of the machine a smart, cohesive appearance.

Practicality

Thanks to its flat inner floor and relatively long wheelbase, the Vision 50 has plenty of space for rider and passenger, ensuring comfort even on longer rides, while the movable front fender, which turns with the front wheel, is very effective at shielding the machine and rider from road dirt, and rainwater. The strong headlight and indicators make the Vision 50 highly visible at night and in poor weather conditions.

3.3 Ergonomic Design

Balanced riding position

The Vision 50 has been designed to be very comfortable for both rider and passenger. The ergonomically sculpted one-piece seat is set at a height of 785mm (16" version), giving plenty of legroom while also making the scooter quick to mount and dismount. Both rider and passenger have room enough to be comfortable, but the Vision 50's compact dimensions also give it a reassuring agility on busy city streets. The slim body of the machine means the rider can easily put his or her foot down when required.

A two-wheeler anyone can ride

The Vision 50 has been engineered to handle intuitively, and to be as easy as possible to ride. The handlebars have been carefully positioned to give the rider a feeling of confident control. Together with the chassis geometry and very low overall kerb weight of just 100kg, the result is a scooter that is easy to handle in all road conditions, with or without a passenger.

Extensive storage capacity

Careful packaging design has created a space beneath the seat large enough for shopping, a waterproof oversuit, security locks or a full-face crash helmet. Since this area is accessed using the key to unlock and lift the seat, anything left in it is secure while the machine is parked in a public area. Meticulous engineering has enabled this space to be maximised without compromising the size of the fuel tank and therefore the range of the machine.

A shopping hook is provided on the leg shield, which also features two open compartments, ideal for storing drinks bottles, and affords rider and passenger a good level of wind and weather protection. Helmet holders on both sides of the internal storage compartment allow helmets to be secured to the machine while leaving the compartment free to store luggage. An aluminium rear rack has also been fitted, ready to mount an optional top box, while retractable pillion steps give the passenger security when required.

3.4 Chassis

Rugged frame and suspension



The Vision 50 uses a steel tube frame. The design is compact and lightweight but also delivers the rigidity so critical to secure and confidence-inspiring handling. The front suspension is a pair of telescopic forks with hydraulic damping, ensuring a smooth ride on even the roughest roads.

3.5 Wheels

Choice of 14" or 16" front wheels

The Vision 50 is available with either 14" or 16" front wheels, the bigger 16" front wheel bringing increased ride quality on rough surfaces, particularly the cobbled roads found in so many European cities. On both versions the wheels are lightweight cast aluminium, which benefits both ride quality and ease of handling.

3.6 Chassis

Premium braking system

For a small-capacity scooter the Vision 50 offers high levels of safety thanks to its large disc front brake and advanced Combined Braking System (CBS). The front and rear brakes of scooters are usually independent, requiring riders to split their braking effort between the two to ensure strong deceleration. However, in an emergency braking scenario this can be difficult, even for experienced riders. Honda's CBS system links the left brake lever to both the front and rear brakes, optimising the effort at both brakes to give strong, secure stopping in all conditions. The right brake lever controls the front brake alone, a powerful but controllable 220mm hydraulic disc.

4. Colours

The 2012 Vision 50 will be launched in a range of striking colours.

VISION 50 14"

- Pearl Procyon Black
- Pearl White
- Boss Grey Metallic
- Candy Aruja Blue
- Candy Lucid Red

VISION 50 16"

- Pearl Procyon Black
- Pearl White
- Boss Grey Metallic
- Precious Blue Metallic
- Candy Lucid Red

5. Optional equipment

The versatility of the Vision 50 can be further enhanced with a range of optional accessories, specially produced for it by Honda Access Europe. These include:

Honda alarm kit

The kit includes a tilt sensor and an attention-grabbing 95dB siren.

Top box

Mounting swiftly and securely to the standard rack, the 35L top box increases the Vision 50's storage capacity, further boosting practicality. Sturdy, lockable and easily-detached, the top box is large enough to accommodate a full-face helmet.

Top box inner bag

This smart black nylon inner bag, which features the silver Honda wing logo on the front pocket, is a perfect fit for the top box. The bag can be expanded from 15 litres to 25 litres and is big enough to carry an A4 file. Supplied with a carrying handle and an adjustable shoulder strap.

Knuckle visor set

These WVTA-approved knuckle visors attach to the fairing of the Vision 50, improving wind and weather protection.

Windshield

The WVTA-approved windshield improves rider comfort by reducing wind buffeting and offering extra protection against the elements.

Scooter blanket

Honda's scooter blanket is also available for the Vision 50. Made from black, water-repellent fabric with sturdy zips to keep you protected, the blanket boasts an insulated lining for extra warmth on cold mornings. A chest cover offers additional protection from the weather. The scooter blanket also keeps the seat dry when parked.



6. Specifications – VISION 50 (ED-type)

ENGINE

Type	Air-cooled 4-stroke OHC 2v single
Displacement	49cm ³
Bore x Stroke	37.8 x 44mm
Compression Ratio	10.1
Max. Power Output	2.5kW/ 7000min-1 (95/1/EC)
Max. Torque	3.5 Nm/ 6750min-1 (95/1/EC)
Idling speed	1900 min ⁻¹
Oil capacity	0.8 litres

FUEL SYSTEM

Carburation	PGM-FI electronic fuel injection
Throttle Bore	19 mm
Aircleaner capacity	3.0 litres
Fuel Tank Capacity	5.5 litres
Fuel Consumption	52 km/l (at 30km/h)

ELECTRICAL SYSTEM

Ignition System	Full-transistor battery ignition
Ignition Timing	15° BTDC (idle) ~ 50° BTDC (7,500min-1)



Sparkplug Type	NGK CR7HSA-9
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Starter	Electric
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Battery Capacity	12V-6Ah
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ACG Output	12V-11.9A/5000min ⁻¹
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Headlights	35 / 35W
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DRIVETRAIN

Clutch	Dry-type, multi-plate shoe
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Transmission Type	Continuously variable (V-Matic)
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Transmission gear ratio	2.93~1.01
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Primary Reduction	4.07
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Final Drive	V-Belt
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Reduction gear ratio (primary, secondary)	4.07/3.92
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FRAME

Type	Underbone; steel tube
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CHASSIS

Dimensions (LxWxH)	1882mm×670mm×1117 mm (1845mm x 670mm x 1090mm)
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Wheelbase	1284mm(1255mm)
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Caster Angle	27°(26.5°)
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Trail	110mm(83mm)
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Turning Radius	1.94m
Seat Height	785mm (760mm)
Ground Clearance	144mm (120mm)
Kerb Weight	100kg (F: 40kg; R: 60kg)

SUSPENSION

Type	Front Telescopic forks with hydraulic damping
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PR
PP
HGA

Rear Unit swingarm

WHEELS

Type	Front cast aluminium
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Rear cast aluminium

Rim Size	Front 16M/C (14M/C) × MT1.85
	Rear 14M/C × MT1.85

Tyre Size

14" version	Front 80/90-14
	Rear 90/90-14

16" version	Front 80/90-16
	Rear 90/90-16

Tyre Pressure	Front 200kPa
	Rear 200kPa

BRAKES

Type	Front 220mm hydraulic disc
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Rear 130mm drum

All specifications are provisional and subject to change without notice.

Please note that the figures provided are results obtained by Honda under standardised testing conditions prescribed by WMTC. Tests are conducted on a rolling road using a standard version of the vehicle with only one rider and no additional optional equipment. Actual fuel consumption may vary depending on how you ride, how you maintain your vehicle, weather, road conditions, tire pressure, installation of accessories, cargo, rider and passenger weight, and other factors.

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