

2021 MODEL INFORMATION

Kawasaki
Let the good times roll



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MODEL NAME **Z H2 SE**

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CONCEPT

Z FLAGSHIP VARIATION WITH ELECTRONIC SUSPENSION AND HIGH-SPEC BRAKES BRINGS Z EXHILARATION TO A WIDER AUDIENCE

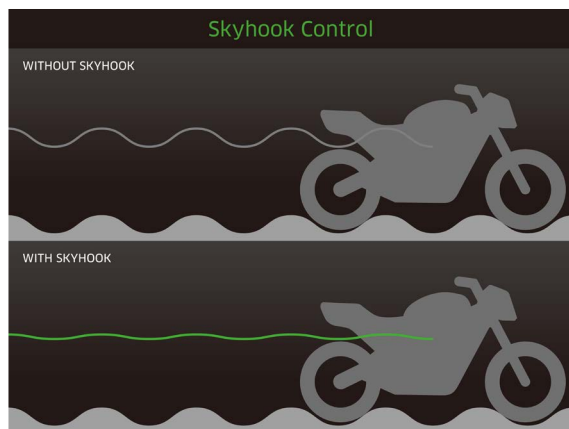
Based on the incredible Z H2, highly acclaimed for its Balanced Supercharged Engine and stunning *sugomi* styling, Kawasaki proudly presents the new Z H2 SE. While retaining the ultimate combination of outright power and controllability from the standard model, the new model offers an even more attractive package with KECS (Kawasaki Electronic Control Suspension). The new electronic suspension, which also features Showa's Skyhook technology, delivers a smoother ride, contributing to increased comfort and enjoyment. Complementing the high-tech suspension are Brembo front brake components, which add to even greater stopping power and control.

CHANGES FROM STANDARD MODEL

KECS with Showa's Skyhook Technology

KECS, Kawasaki's semi-active electronic suspension system, adapts to road and riding conditions in real time, providing the ideal amount of damping called for. Combining high-level mechanical components with the latest electronic control technology, KECS offers both the suppleness to offer riding comfort in a wide range of riding situations, as well as the firm damping to facilitate sport riding. The tyres feel planted, delivering confidence when cornering. In Rain Mode, Showa's Skyhook EERA (Electronically Equipped Ride Adjustment) technology offers an even more composed ride.

* Damping is adjusted electronically to suit vehicle speed and suspension stroke speed. Deceleration is also taken into account, allowing the pitching that occurs under braking to be managed.



- * Control is via a solenoid valve with direct (single-stage) actuation. This results in extremely quick reaction time: 1 millisecond – much quicker than systems that rely on step-motors, or those that use pilot valves (two-stage actuation), which slow the system's responsiveness. The quick reaction time makes KECS ideal for sport riding applications, where natural feeling is crucial to feeling at one with the bike, and its real-time reaction to bumps and gaps in the road surface enable superior riding comfort.
- * Built-in stroke sensors on both the fork and rear shock provide real-time stroke speed and position information. The sensor coils provide input to the KECS ECU every 1 ms. This is complemented by information provided by the IMU (vehicle acceleration/deceleration) every 10 ms, the FI ECU (front/rear wheel speed) every 10 ms, and the ABS ECU (front brake caliper pressure) every 10 ms. The KECS ECU then directs current to the solenoids to adjust damping as required by the situation.

- * Base mechanical components are essential to suspension feel. KECS on the Z H2 SE uses a sporty $\varnothing 43$ mm Showa SFF-CA (cartridge) fork and a high-spec BFRC lite rear shock. (Photo 1)



- * Base damping character is set according to the integrated Riding Mode (Sport, Road, Rain, Rider (manual)) selected. KECS then adjusts to the road surface environment in real time to provide the ideal damping, taking into account vehicle speed, stroke speed and deceleration.

- * Showa's Skyhook software, carefully fine-tuned by Kawasaki engineers to ensure the Z H2 SE's sporty riding character was preserved, delivers a smoother ride as it continually adapts to the road surface in real time. The Skyhook concept imagines a hook supporting the motorcycle's sprung weight and modulates the suspension's damping force to allow the wheels to track the dips and bumps encountered while maintaining the motorcycle's vertical position with minimal disturbance. In Rain Mode, road holding ability is excellent, pitching is reduced, steering remains light, and the machine feels more planted.
- * In addition to the information from multiple sources monitored by standard KECS, the Skyhook-enhanced Rain mode also takes into account vertical acceleration and pitch rate (each confirmed every 10 ms) when determining the damping force required.
- * Along with KTRC, KLCM, and KIBS, KECS is one of the systems monitored by KCMF (Kawasaki Cornering Management Function), Kawasaki's advanced IMU-enhanced electronics package that oversees multiple engine and chassis systems to facilitate smooth cornering.

Brembo Stylema Calipers

The Z H2 SE's higher-spec Brembo front brake package includes Stylema monobloc calipers and a Brembo front master cylinder, offering stronger braking performance and enhanced control.



- * Compared to the M4.32 units found on the standard Z H2 model, the Stylema calipers have less volume around the pistons and brake pads. This reduces the internal space taken up by brake fluid, enabling a more direct response.
- * The new calipers are lighter, with smaller external dimensions, contributing to reduced unsprung weight.
- * Stylema calipers cool very rapidly thanks to increased airflow around the brake pads, additional space around the pistons, and an opening that allows air to exit from the central bridge.
- * In addition to the Stylema calipers, the Z H2 SE benefits from a Brembo front brake master cylinder and steel-braided lines.

MODEL VARIATIONS

Riders can choose from the standard model Z H2, or the new Z H2 SE, which features KECS equipped with Skyhook technology and Brembo Stylema front calipers. (“Linked” refers to features linked by the integrated Riding Modes.)

FEATURE	Z H2	Z H2 SE
Balanced Supercharged Engine	✓	✓
Electronic Cruise Control	✓	✓
KCMF (IMU-enhanced electronics package)	✓	✓
KTRC	✓ Linked	✓ Linked
KLCM	✓	✓
Power Mode selection	✓ Linked	✓ Linked
KQS (dual-direction)	✓	✓
KIBS	✓	✓
KECS	-	✓ Linked
Integrated Riding Modes (links KTRC, Power, KECS*)	✓	✓
Brembo front brake calipers	M4.32	Stylema
Brembo front brake master cylinder	-	✓
TFT colour instrumentation with smartphone connectivity	✓	✓

(New for 2021MY)

*On SE model

COLOURS

* Metallic Diablo Black / Golden Blazed Green

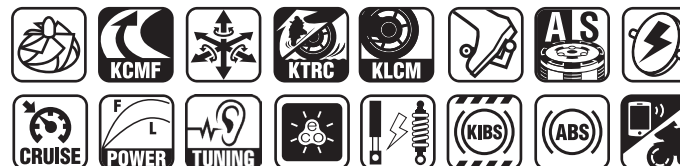


SPECIFICATIONS

DIMENSIONS	
Overall length	2,085 mm
Overall width	815 mm
Overall height	1,130 mm
Wheelbase	1,455 mm
Road clearance	140 mm
Seat height	830 mm
Curb mass	240 kg
Fuel tank capacity	19 litres
PERFORMANCE	
Max. power	147.1 kW {200 PS} / 11,000 min ⁻¹
Max. torque	137.0 N·m {14.0 kgf·m} / 8,500 min ⁻¹

ENGINE	
Type	Liquid-cooled, 4-stroke In-Line Four
Valve system	DOHC, 16 valves
Bore x Stroke	76.0 x 55.0 mm
Displacement	998 cm ³
Compression ratio	11.2:1
Fuel supply	Fuel injection: ø40 mm x 4
Intake system	Kawasaki Supercharger
Lubrication system	Forced lubrication, wet sump with oil cooler
Starting system	Electric
Ignition system	Digital
DRIVETRAIN	
Driving system	Chain
Transmission	6-speed, return, dog-ring
Gear ratios:	3.077 (40/13)
1st	2.471 (42/17)
2nd	2.045 (45/22)
3rd	1.727 (38/22)
4th	1.524 (32/21)
5th	1.348 (31/23)
6th	1.480 (74/50)
Primary reduction ratio	2.556 (46/18)
Final reduction ratio	Wet multi-disc, manual
Clutch type (Primary)	

KAWASAKI TECHNOLOGY



FRAME	
Type	Trellis, high-tensile steel, with Swingarm Mounting Plate
Suspension:	<p>Front ø43 mm inverted fork (SFF-CA) with KECS-controlled compression and rebound damping, manual spring preload adjustability, and top-out springs</p> <p>Rear New Uni Trak, BFRC lite gas-charged shock with piggyback reservoir, KECS-controlled compression and rebound damping, manual spring preload adjustability, and top-out spring</p>
Wheel travel:	<p>Front 120 mm</p> <p>Rear 134 mm</p>
Caster (Rake angle)	24.9°
Trail	104 mm
Steering angle (left/right)	29° / 29°
Tyre:	<p>Front 120/70ZR17M/C (58W)</p> <p>Rear 190/55ZR17M/C (75W)</p>
Brakes: Front Type	Dual semi-floating ø320 mm discs (Effective diameter: ø294 mm)
Caliper	Dual radial-mount, Brembo Stylema monobloc, opposed 4-piston
Rear Type	Single ø260 mm disc (Effective diameter: ø226 mm)
Caliper	Single-piston

The specifications mentioned here apply to and have been achieved by production models under standard operating conditions. We intend only to give a fair description of the vehicle and its performance capabilities but these specifications may not apply to every machine supplied for sale. Kawasaki Heavy Industries, Ltd. reserves the right to alter specifications without prior notice. Equipment illustrated and specifications may vary to meet individual markets. Available colours may vary by market.