



# POWER AND PERFORMANCE

Hitachi's ZW310-6 wheel loader delivers high productivity and reliability in challenging conditions.

**T**he new loader from Hitachi Construction Machinery Loaders America (HCMA) comes with all elements needed for high-production, material-moving applications. Hitachi's ZW310-6 wheel loader is designed for challenging work conditions and engineered for reliability and high productivity. With standard Dual Z-Bar linkage, high tipping load and high breakout force, the ZW310-6 is ideal for a wide range of applications and environments.

The bucket options range from 5.5 to 6.1 cubic yards, and the machine tips the scales at 53,310 to 54,390 pounds operating weight. A 285-horsepower, Tier 4 Final Cummins engine powers the unit, but does not need a diesel particulate filter, only a maintenance-free diesel oxidation catalyst. The no-DPF Tier 4 technology is designed to reduce maintenance costs and combined with the lock-up transmission, it enhances fuel efficiency. Another feature is enhanced machine speed and fuel efficiency while travelling in hill-climbing environments.

## Smooth Operation

Optimizing operator comfort was an essential part of the design. Noise levels in the cab are reduced by improved sound insulation, providing a quieter working environment. To ensure a smooth driving experience on all kinds of terrain, the standard ride control feature minimizes pitching via the movement of lift arm cylinders. The low-profile dash, full-length doors and well-organized storage areas create a comfortable operating environment.

Exceptional operator control is ensured by the optional E-Stick Joystick Steering System, which enables operators to reach high levels of productivity with effortless steering. The multifunctional LCD monitor in the cab also makes life easier, showing vital information at a glance. The standard heated air suspension seat and adjustable side console allow the operator to customize his or her work environment.

Other operator friendly features include a lock-up transmission for fuel savings in the travel mode, a 360-degree panoramic view from the cab, a quick power switch for climbing hills, load-sharing hydraulics, and a Z-link boom-arm design for improved reach and clearance.



**Tom Harmon**  
Regional Business Manager,  
HCMA

“One of the things that’s not talked about enough on our machine is that we were able to meet Tier 4 final spec without a DPF filter. The DPF filter replacement on that can run you up to \$5,000, and they’re replaced roughly every 5,000 hours, so we’re saving you a dollar an hour in running costs. If you’re planning on running this machine for 20,000 hours, purchasing our machine without a DPF filter can, right off the bat, save you \$20,000 in repairs. No DPF filter means no regeneration time, no downtime in the lot, no idle downtime. It’s a not-talked-about-enough development that Hitachi’s been able to do with the Cummins engine.”

**Mel Wade**  
Application Engineer, HCMA



“Maintenance on the machine has been improved for access. All your grease points are from ground level. The batteries are accessible from ground level, including battery disconnect. The electrical components are in here for easy access and easy maintenance. You can check your battery’s electrolyte level, and if you have to change the battery, the panel opens up so you can get a lifting device in here to remove it.

We try to keep it simple, keep it safe, and keep the operator on the ground to do a lot of his maintenance and servicing.”



## Productivity

A number of features contribute to the versatility of the ZW310-6. The quick power switch increases engine output when more power is instantly required, or for hill climbing. The ZW310-6 is intuitive as well. Intelligent features use inputs from the machine to adjust performance to match worksite environment and application. Simultaneous movement of the bucket and lift arm ensures an efficient digging operation. Efficient loading is ensured by a 25 percent improvement in traction force compared to the previous model.

Robust materials and strengthened components include high-quality aluminum radiators which improve resistance to corrosion, heavy-duty structural features, box section frame, base-mounted boom cylinder, and heavy-duty center pin. The ZW310-6 also has easy maintenance features for a high level of reliable performance. The engine covers open fully for convenient access to the engine, ground level access to fluids and filters, and extended hydraulic and engine oil change intervals. These features, in conjunction with Hitachi's ConSite telematics monitoring and reporting system reduce downtime and ease routine maintenance practices.

## Loadrite SmartScale for Hitachi ZW310-6 Loader

Trimble offers the Loadrite L3180 SmartScale as an option on Hitachi wheel loaders. The Loadrite L3180 automates the weighing of material loads and connects machines and devices via Wi-Fi for collection and syncing of data on the backend. Trimble's InsightHQ reporting portal consolidates live data from Loadrite-enabled devices at the site to give you real-time productivity and performance reports on operations.

Hitachi purchased KCM loaders from Kawasaki in 2016 and in 2018 changed KCM's name to Hitachi Construction Machinery Loaders America. Hitachi plans to increase loader production and streamline its loader offering in North America. The company manufactures loaders in Japan and in Newnan, Georgia. ■

For a walk-around of the ZW310, check out this video from the Trimble Dimensions outdoor exhibit area: <http://bit.ly/ZW310>.

