UD TRUCKS

Quon
with new features

Innovation that puts people
and their safety first.

Going the Extra Mile

Quon WITH NEW FEATURES

GREATER SAFETY
FURTHER RANGE
BETTER FUEL EFFICIENCY
SMARTER DRIVABILITY

Our newest generation of trucks take to the road, loaded with innovative safety features and a comprehensive set of powerful design enhancements. It's a generation designed for the long-term safety of drivers, communities, and road users. Through enhanced fuel efficiency, greater road safety systems, longer uptime, and superior driver comfort, the latest Quon with new features puts people, and their safety — first.

Quon

with new features

Enhanced for safety, made for people

Safety on the road is paramount. The Quon with new features has been upgraded in several key areas to promote safer driving, improve fuel efficiency, raise uptime, lower operational costs, and be more environmentally sustainable.

NEWLY IMPROVED

SMART SAFETY P18

Safer and more dependable

The Quon with new features is more effective at mitigating safety risks on the road through cutting-edge technology: Smart Traffic Eye Brake System, Lane Departure Warning, disc brakes and the new Smart Traffic Eye Cruise feature among many others.

These features contribute to achieving Vision Zero — a future of no injuries and fatalities arising from road collisions.

NEWLY IMPROVED

SMART FUEL EFFICIENCY AND ENVIRONMENTAL CARE P12

Cleaner and more powerful

Refinements to the driveline have achieved a high level of fuel efficiency that contributes savings directly to the bottom line. The Quon with new features exceeds Japan's current fuel economy standards for heavy-duty vehicles by 10%* and complies with upcoming Japanese fuel economy standards. Through greener truck technology, UD Trucks' aims to become a Japanese Sustainability leader by 2025.

*Applicable to Quon with GH11 engine and ESCOT.

SMART PRODUCTIVITY P22

Better productivity, better efficiency

We've reduced the weight of some models, improving load handling and suspension. As a result of this lower tare weight, carrying capacities have increased, allowing for better productivity.

SMART DRIVABILITY P10

Easier to use, smoother to drive

Drive from the comfort of a thoughtfully designed cabin and shift gears seamlessly with revolutionary technology: the ESCOT-VI automated manual transmission and Allison 6 speed automatic transmission systems. Enjoy robust disc brakes that deliver excellent response and superior braking power*. With these innovations, you'll improve your own road experience while reducing the risk of danger to the surrounding environment.

*Standard on all models.

NEWLY IMPROVED

SMART UPTIME P24

Longer service intervals for greater peace of mind and lasting safety

The Quon offers comprehensive after sales services, such as 'UD Genuine Service', 'UD Genuine Parts', and 'UD Information Service. This, in combination with further engine enhancements, have resulted in an unprecedented level of uptime — safely extending roadworthiness while reducing the cost of ownership. In addition to fewer breakdowns, users can enjoy the comfort of predictable costs and the peace of mind that your Quon is receiving the best parts and service available.

Advanced exterior that delivers superior safety, efficiency, and function

Our design goal was to develop trucks that drivers would be proud to drive — by combining a functional yet sophisticated look with advanced safety features.

Superior Aerodynamic Performance

Airflow is directed smoothly from the flat front face to the corners of the truck. The new shape of the optional wind deflector also improves fuel efficiency.

Quon's aerodynamic shape allows for greater fuel efficiency, while its low cabin design with two-step entry/exit enables easy and safe access. For safer driving, Quon features power-saving, long-lasting LED headlamps (low beam) that improve night-time visibility for the driver.

Comfortable interior based on design that ‘puts people first’

The dashboard area, steering wheel, gear lever, and accelerator pedal have been designed with ergonomic principles in mind. Providing excellent visibility, the intuitively designed instrument panel presents driving information that’s smartly ordered to warning priority. The black and silver cabin has a modern feel, with careful attention to details that enhance the driver’s quality of experience. These features create a comfortable interior environment where the driver can concentrate on driving.

Safer and more dependable for all

The Quon with new features is geared towards improving and driving long-term commercial vehicle safety. This is achieved by detecting potential road dangers and warning the driver with an enhanced suite of safety systems, including: the Smart Traffic Eye Brake (standard), Smart Blind Spot Information System (BSIS), Smart Lane Change Support (LCS), and the Driver Alert System (optional).

Our goal is to achieve ‘safety that puts people first’ by providing safe driving conditions for drivers, while maintaining safety in the surrounding environment.

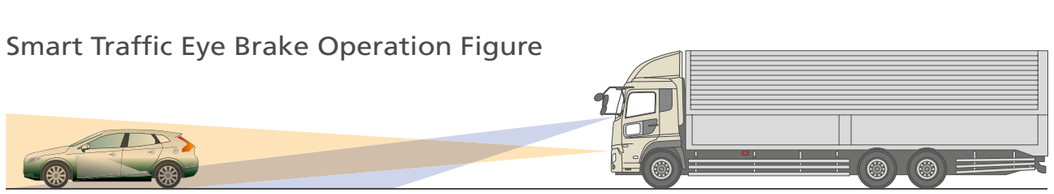
Active safety: Improved driver safety

Smart Traffic Eye Brake

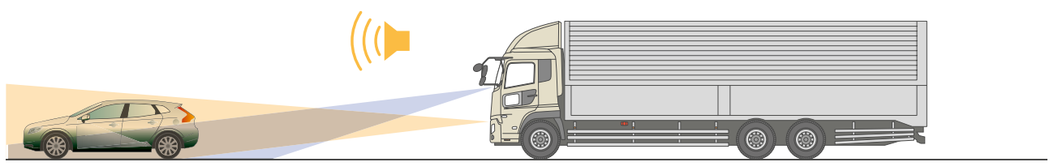
This system uses millimetre-wave radar and a camera to monitor the area in front of the truck. If it detects a potential collision it sounds an alarm, displays a warning lamp and a warning message. If the truck continues to close on the vehicle ahead, the system applies the brakes automatically to slow the truck and prevent the collision.

With the new improvements, the system can now detect vulnerable road users (VRU) such as pedestrians and cyclists. Any VRU that suddenly moves in front of the truck will be sensed by an active Moving Off Information Signal (MOIS). Active prediction and prevention of dangerous collisions reduce possible liabilities from accident claims, and make transportation safer for everyone on the road.

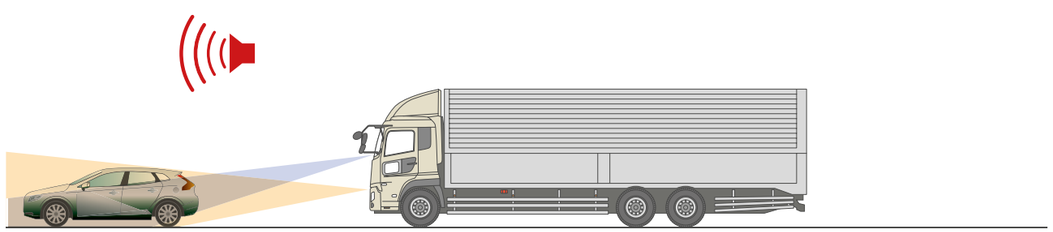
Smart Traffic Eye Brake Operation Figure



1. Uses both millimetre-wave radar and camera to monitor conditions in front of the truck.



2. While driving, if the system detects a chance of collision with the vehicle or VRU ahead, it sounds an alarm and displays a warning indicator to alert the driver.



3. If the vehicle or VRU gets close enough for a collision to be possible, the system quickly applies the brakes to reduce the potential damage from a collision.

NOTE: The Smart Traffic Eye Brake provides assistance for safe driving, but does not guarantee that all collisions will be avoided. It might not be possible to use this system on some roads and in some weather conditions. Please take care to drive safely without total reliance on this system.

Passive safety: Suppressing damage to a minimum

- Highly rigid cabin
- Side door beams
- FUPS*
- SRS airbags
- Seat belts with pre-tensioners
- Steering wheel & column with impact absorption function
- ECE-R29 cab strength compliant**

*Front Underrun Protection System

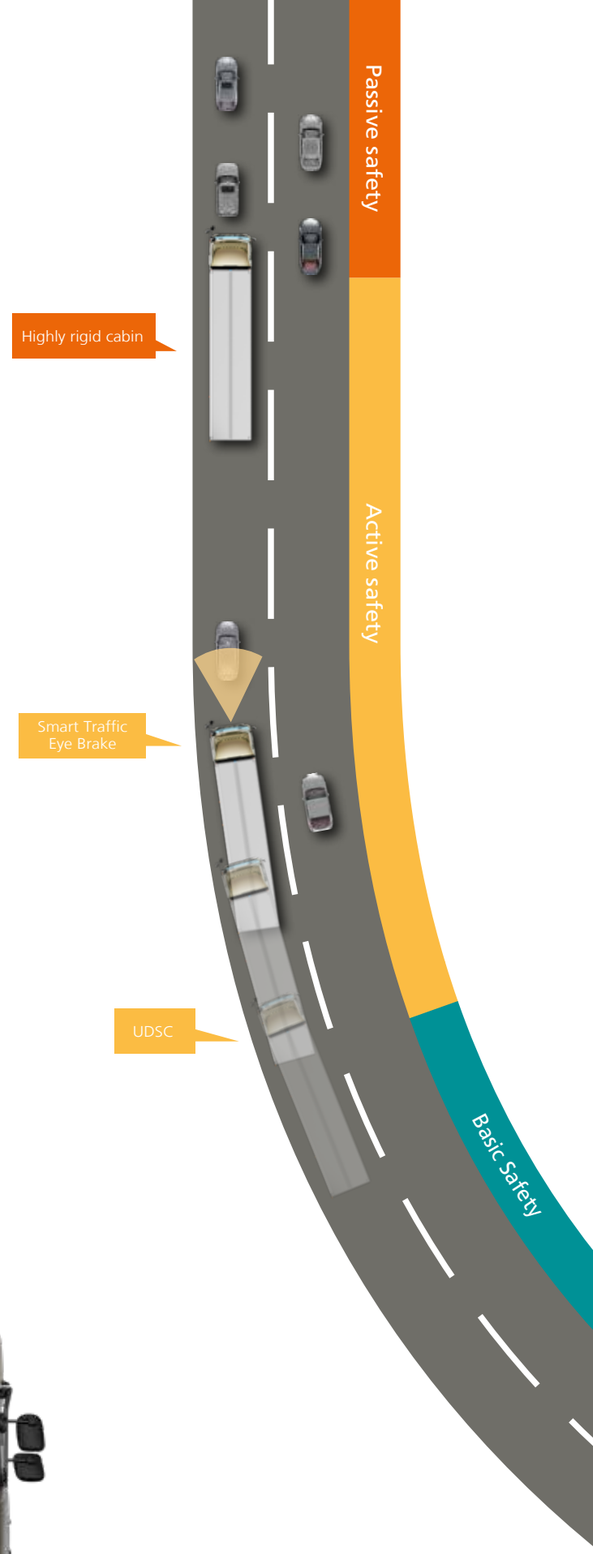
**ECE-R29 cab rating not available on CG models

Active safety: Predicting risk for driver safety

- Smart Traffic Eye Brake with MOIS and VRU detection
- Smart Traffic Eye Cruise*
- LDWS (Lane Departure Warning System)
- UDSC (UD Stability Control)
- Driver Alert System (optional)

Basic safety: Contributing to reducing fatigue while driving, supporting safe driving

- LED Headlamps
- Disc brakes
- Emergency Brake Signal
- UD Extra Engine Braking (UD EEB)
- UDSC (UD Stability Control)
- Safe Brake Blending
- Immobiliser
- Easy two-step entry/exit & long grip (driver’s side)
- Smart Blind Spot Information System
- Smart Lane Change Support



Smart Traffic Eye Brake Components

The Smart Traffic Eye Brake camera functions as a sub-sensor when detecting stopped vehicles.

The Millimetre-wave radar functions as the main sensor when detecting the vehicle ahead.

Active safety: Predicting risk for driver safety

NEWLY IMPROVED

Smart Traffic Eye Cruise*

This feature automatically adjusts the speed for the driver, slowing itself to a halt if the vehicle ahead stops. This reduces driver fatigue and stress, especially during congested roads or heavy highway traffic with variable speeds. To resume Smart Traffic Eye Cruise, the driver simply presses the "Resume" button on the steering wheel or step gently on the accelerator pedal.

This safety system reduces potential accidents during deceleration, and is especially effective when ACC Stop and Driver Initiative Go are paired with Quon's Smart Traffic Eye Brake.

*This feature is available on 8L and 11L models at a later date.

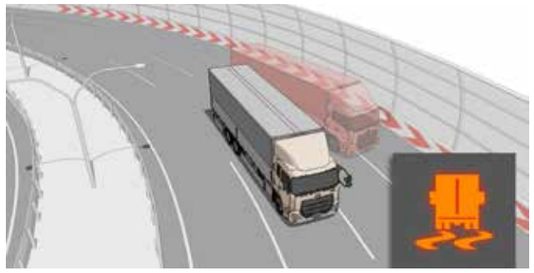
Lane departure warning system*

The in-cab camera detects the traffic lanes to the left and right. If the driver unintentionally leaves the lane while driving at 60km/h or faster, the system sounds an alarm and flashes an indicator.

*This function is not triggered if the brakes and turn indicators are used.

Driver Alert System (optional)

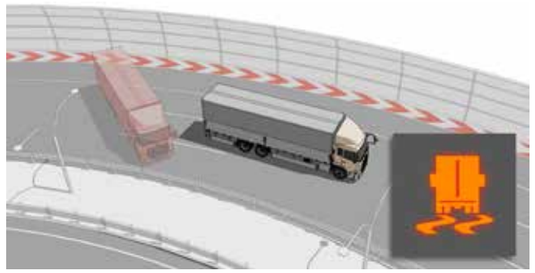
The in-cab camera analyses the positional relationship between traffic lanes and vehicles, and estimates the driver's level of concentration based on irregular or shaky steering. If the system determines that the driver's level of concentration has dropped, it activates a two-step alarm and displays a warning message on the multi-display to alert the driver and suggest a break.



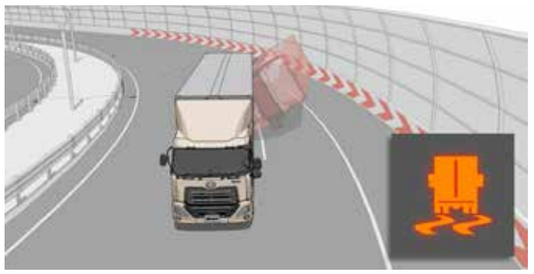
Drifting (snowy and muddy roads, etc.)

UD Stability Control (UDSC)

If the UDSC sensor detects conditions in which the truck could become unstable, such as curves or slippery road surfaces, the system applies suitable control to engine output, brakes, and braking power to each tyre to keep the truck stable. UDSC is standard on all models.



Sliding/Spinning



Rollover

Smart BSIS and Smart LCS radars location on the QUON

Indicator blinking

Smart BSIS and Smart LCS detecting VRU and vehicles on the Left Side

Pop-up on instrument cluster & buzzer sound

Smart Blind Spot Information (BSIS) and Smart Lane Change Suport (LCS)*

Smart BSIS and LCS increase driver visibility especially when navigating congested roads or densely populated city centers — resulting in better care for other road users.

Changing lanes or turning is made safer by detecting present VRU in the area. Detection will trigger a blinking indicator and the instrument cluster will display a warning, accompanied by an audible buzzer to alert the driver.

Driver Status Monitor*

Focus on driving knowing that your safety is being monitored. The Driver Status Monitor watches over your posture, and facial activity to detect if you're fatigued or drowsy. If you're losing attention during your drive, the system will alert you with a pop-up display and buzzer sound — prompting you to take a break.

*Available in AUS.

Basic safety: Reducing fatigue while driving

LED headlamps

The long-lasting LED lamps used for low beam provide a bright and clear light to improve night-time visibility for safe driving.

UD EEB (UD Extra Engine Braking)

The UD EEB function on the GH11 and GH8 engines with ESCOT-VI transmission maintains a high engine rpm to ensure maximum auxiliary braking performance.

Safe Brake Blending

Brake blending provides superior braking efficiency and optimal balance between the main brakes and auxiliary brakes, simply by pressing the brake pedal.

Immobilizer

You can only start the engine with the dedicated key, helping to reduce the risk of vehicle theft. The immobilizer is equipped as standard on all models.

Disc brakes

Disc brakes with high heat dissipation and superior fade resistance provide reliable braking performance even on long descents. As they are less susceptible to water penetration, they also provide stable braking performance even in adverse conditions. They respond quickly and smoothly to the brake pedal and reduce the impact of braking, to prevent damage to your valuable cargo.

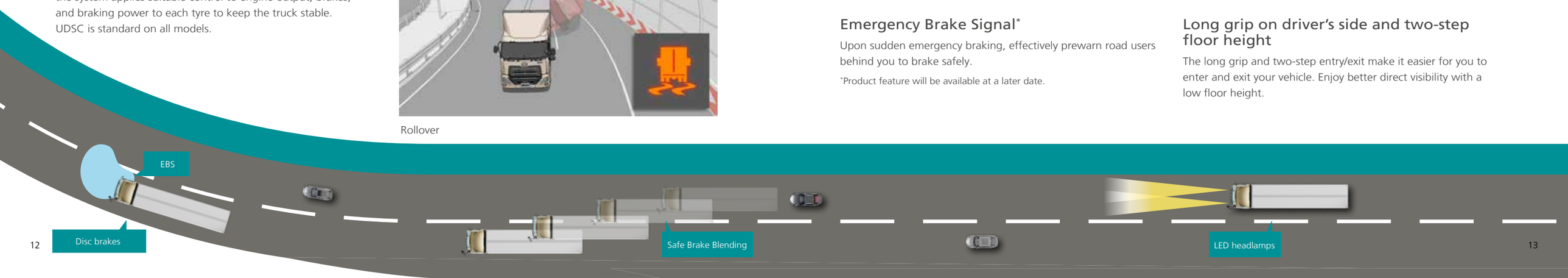
Emergency Brake Signal*

Upon sudden emergency braking, effectively prewarn road users behind you to brake safely.

*Product feature will be available at a later date.

Long grip on driver's side and two-step floor height

The long grip and two-step entry/exit make it easier for you to enter and exit your vehicle. Enjoy better direct visibility with a low floor height.



Comfortable and efficient driving performance

ESCOT-VI - the latest evolution in 12-speed automated manual transmission, disc brakes, and an interior designed for driver comfort, provide a sophisticated and comfortable driving experience that reduces driver stress and fatigue.

Unparalleled operability: ESCOT-VI

ESCOT-VI provides advanced gear change control and suppresses fluctuations in fuel efficiency. Enhancements to hardware and software control achieve fast and accurate gear changes. Quick and smooth gear changes reduce the driver's level of stress and fatigue while contributing to safe driving. Performance is also improved on uneven surfaces and muddy roads.

Simple and easy-to-use gear lever

The ESCOT-VI gear lever uses a straight shifting pattern, an evolution in simple and easy-to-use design.

R: Reverse For smooth driving in the reverse direction at slow speed.

N: Neutral Gear lever position for when the truck is parked.

D: Drive Programmed for the quick gear changes and fuel efficient driving of a professional driver. You can also use the convenient +/- button on the right side of the gear lever to change up and down.

M: Manual Manual mode.

Allison 6 speed automatic transmission also available on 8L CG models

The system provides a full set of switches to set, change, and cancel vehicle speed. There's also an ECO OFF switch to change between ECO mode and ECO OFF mode.

Smart Traffic Eye Cruise

This system uses millimetre-wave radar to detect the vehicle in front and maintain a fixed distance from it. If the vehicle in front accelerates, the Quon will accelerate within the range of speed and distance the driver has set using the switches on the control panel. You can set a speed of 30km/h or higher. If the target vehicle in front decelerates or stops, the Smart Traffic Eye Cruise will slow down or stop accordingly, and a "HOLD" sign will light up.

4-Spoke Steering Wheel

Using ergonomic research, we re-designed the shape of the steering wheel to give a more comfortable grip that reduces driver fatigue. We've placed the most important switches conveniently for easy access to functions and information. This ensures that the driver's line of sight and operation are along the same axis, for efficient, safe, and reliable operability.

Instrument panel with excellent visibility

We've arranged the driving information and LED indicators on the instrument panel in an easy-to-understand layout that provides excellent visibility. Information is displayed in zones arranged according to warning priority, with the most important information at the top. A large 5-inch color LCD multi-display is mounted in the centre of the instrument panel. Traffic signs detected by the Traffic Sign Recognition system* will be flashed on the multi-information display, helping you make safer decisions.

*Product feature will be available at a later date.

The dashboard in the image above belongs to a Quon with ESCOT-VI transmission

Dashboard designed for driver comfort

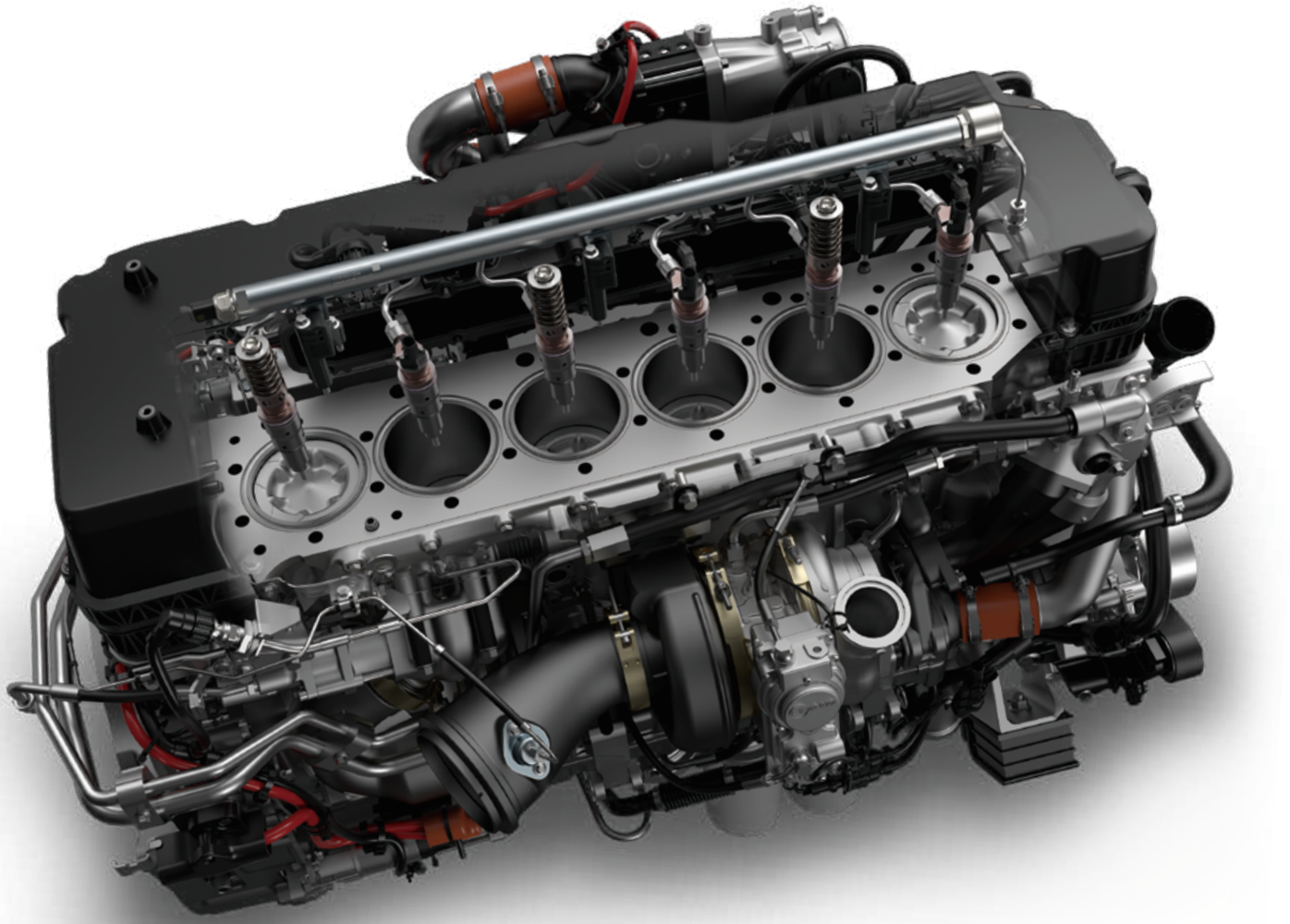
We've designed a functional black-and-silver dashboard that skilfully combines straight lines and curves. This design enhances driver operability and visibility and provides the optimal arrangement of multi-display monitor, switches, equipment, and instruments. Switches are set to light up when in use and at night, so the state of any switch can be easily understood with a quick glance.

Disc brakes for reliable and powerful braking

Disc brakes give a quick and smooth brake pedal response and reliable braking, even on long descents when hauling a full load. By combining a variety of advanced brake systems, such as brake blending and the Smart Traffic Eye Brake, we have achieved comfortable braking that is easy on cargo, while also reducing driver fatigue.

Advanced Fuel Efficiency for a Greener Future

Quon's new driveline features a cleaner, improved 'GH11 Engine' with increased horsepower and torque, and the ESCOT-VI automated manual transmission with enhancements to fuel efficiency. The driveline uses advanced technology and upgraded features to achieve higher fuel efficiency, lower carbon emissions, and smooth, comfortable driving with little fatigue.



Fuel efficient, powerful, clean 'GH11 Engine'

The 'GH11 Engine' uses the unique properties of both a unit injector and a common rail system. The GH11 is able to generate torque at a low revolution speed, and can continue across a wide revolution range. It also features a new fuel injection system, and improvements to the shape of the combustion chamber.

10%* more fuel efficient than Japan's current fuel economy standards for commercial trucks, the GH11 readily complies with stringent pPNLT (post-Post New Long-Term) exhaust gas emissions regulations — equivalent Euro 6 emission requirements.

Upgraded with a new high-strength clutch and flywheel (460PS), along with additional noise insulation and better heat management, the new design improves fuel efficiency by 2.5%. It's an improvement that aligns with Japan's agenda of becoming carbon neutral by 2050.

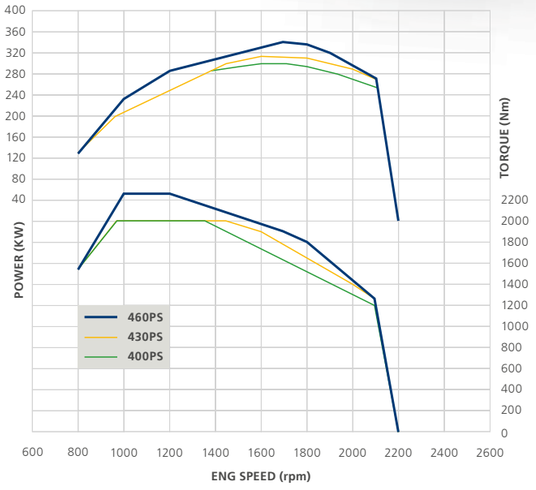
*Applicable to Quon with GH11 engine and ESCOT.

Safely reducing fuel consumption

UD Truck's most fuel efficient and reliable 11L engine lowers operating costs and runs at a 2.5% improvement to fuel efficiency.* Through superior engine gradability, faster acceleration and greater torque are achieved — further improving profitability by means of a shorter trip time.

*Depending on applications and road usage.

	Improvements from current GH11 engine	Max Power	Max Torque
460ps	**Comparison to GH11TD460PS** 100 rpm less to achieve Max Torque + 50 Nm of Max Torque	339 kW / 1700 rpm	2250 Nm
430ps	**Comparison to GH11TC420PS** + 7 kW (10 PS) of Max Power + 100 Nm of Max Torque	316 kW / 1600 rpm	2000 Nm
400ps	**Comparison to GH11TB390PS** + 7 kW (10 PS) of Max Power + 250 Nm of Max Torque	294 kW / 1600 rpm	2000 Nm



ESCOT-VI for enhanced fuel efficiency

Evolutions in the hardware and software controls of the ESCOT-VI 12-speed automated manual transmission provide improved gear shifting leading to increased fuel efficiency.

Advanced Functions to Enhance Fuel Efficiency and Improve Sustainability

When the driver starts the Quon, ECO mode, ESCOT Roll, Acceleration Limiter, Soft Cruise Control, and other features automatically turn on. Fuel efficient driving begins as soon as the engine is running and, more importantly, keeps the planet going.

ESCOT Roll is only available on ESCOT-VI transmission.

More powerful, yet safer for the planet

The push to protect the environment and our future has never been greater. In our commitment with Japan to meet the United Nations' Climate Change Convention Greenhouse Gas Milestone Global push for a low-carbon, climate-resilient future, we have upgraded the Quon truck's engine to improve fuel efficiency, lower costs, and reduce carbon emissions.

Redesigning the engine

We have redesigned and improved engine components in the 11L model such as the cylinder block, cylinder head, injection system, pistons, crankshaft, connecting rods, lubrication system, and auxiliary drive. This increases power and torque, allowing faster acceleration and higher gradeability.

Improving the rear axle

A new high efficiency differential carrier, 17XHE, for the 4x2T and 6x2R configurations has been introduced in the 11L model to reduce gear transmission loss and friction loss. Lower drivetrain loss allows for greater engine power and torque on the wheels.

Fuel efficient driving in ECO Mode

ESCOT Roll and other functions that enhance fuel efficiency are engaged as soon as the engine is turned on in Quon ESCOT-VI models.

ESCOT Roll

This function enhances fuel efficiency while coasting, by reducing fuel consumption due to re-acceleration. It comes on automatically if certain conditions* are satisfied while in ECO mode. If the truck goes too fast while Smart Traffic Eye Cruise is ON, ESCOT Roll cancels automatically.

*When the gear lever is in the D range, the exhaust brake switch is OFF, and coasting in 7th gear or higher on a flat road.

Acceleration Limiter

The acceleration limiter is programmed to limit sudden acceleration above a certain level - even when flooring the accelerator pedal - to enhance fuel efficiency and maintain stable driving. If acceleration is required, the driver can hit the ECO OFF switch on the steering wheel to remove the limitation on strong acceleration on Quon ESCOT-VI models.

Soft Cruise Control

Cruise Control suppresses sudden acceleration, controls engine speed, and returns the truck to the set vehicle speed, to provide excellent fuel efficiency.

'Nenpi Coach*' for fuel efficiency advice

The 'Nenpi Coach' system analyzes driving patterns for a specified time period, then displays optimal fuel efficiency advice on the multi-display monitor in an easy-to-read format. The driver can also check other detailed information and optimal driving techniques to improve fuel economy on Quon ESCOT-VI models.

*Nenpi Coach not available with Allison automatic transmission.

Idle Shut Down (ISD)*

The Idle Shut Down feature enables automatic shut down of the engine after a few minutes of idling during parking, contributing to maximum fuel efficiency.

*Available in AUS, NZL & SAF.

Better productivity, better efficiency

The key to efficient transportation is increased payload and greater mobility. The Quon combines smart and innovative features that safely boost productivity while maintaining a lasting build quality.

Reduced vehicle weight

Disc brakes and high-tensile steel rails for the main frame reduce weight to improve overall productivity.

Light and strong frame

High-tensile steel rails and reduced height of the frame cross-section maintain strength, while reducing weight, to achieve further improvements in loading performance.

Improved load handling, uneven load adjustment function

The uneven load adjustment function automatically adjusts any lateral differences in height on trucks with new air suspension. This improves handling when loading from the side of the truck.

Air suspension with increased height adjustment range

The air suspension features increased adjustment range. This enables optimal height adjustment for loading docks and connecting trailers, with an adjustment width of +140mm upward from the neutral position.


Quon
UD TRUCKS
Quon

For details on each vehicle, please contact your local UD Trucks dealer.
The specifications and other information in this brochure are subject to change without prior notice.
(This brochure is current as of August 2023).

UD Trucks manufactures standard vehicle which does not include technical modification on the truck chassis to comply with the rules imposed by international conventions, relevant national legislation, and transport standards for specific purposes such as hazardous substance transport. Any such modification needs to be done by bodybuilder or customer, and in no event shall UD Trucks be liable for any liability, loss, injury or risk which is incurred or suffered as a result of such use of the vehicle.

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