



UD TRUCKS

Quester

Made to go the extra mile



EURO 5
Drive for better

Going the Extra Mile



INTRODUCTION

Journey with Quester, now available in Euro 5

An evolution in Japanese innovation.

Every great story starts with a dream. In UD Trucks' case, the dream started for our founder Kenzo Adachi in 1935 when he had the vision to create the trucks the world needs today. With this inspiration, he took the legendary 3,000km test drive across Japan,

an astonishing adventure that already then demonstrated the exceptional durability of the company's trucks.

Since then, UD Trucks has earned a global reputation of delivering durable, reliable and efficient trucks, with Ultimate Dependability.

Our official export business began in 1961, and since then the philosophy of always going the extra mile for our global customers has helped us supply innovation and reliability to several generations of fleet owners and drivers.



Quester – a complete solution.

Quester is a heavy-duty truck that combines first-class fuel efficiency with durability. With the wide offering of Quester range, we have a complete solution with customized UD Trust service agreements and UD Telematics Services.

Quester has evolved with the world.

Quester with ESCOT is here – an evolution that provides smarter solutions for today's transport challenges. Building on proven robustness and reliability, Quester introduces key features such as ESCOT automated manual transmission, retarder, electrical cab tilt, engines with higher horse power and user-friendly telematics. These deliver even greater productivity, fuel efficiency, uptime, driver efficiency and safety.

Quester, a smart move for your business.

And now available in Euro 5






Quester goes the extra mile to meet today's environmental and business challenges. By implementing SCR and complying with Euro 5 regulations, it addresses these challenges whilst meeting the market demands.



A SMART MOVE FOR YOUR BUSINESS

Quester features.

Quester is a complete solution that lets you focus on running your operations the way you need to.

-  **PRODUCTIVITY** 6–11
-  **FUEL EFFICIENCY** 12–15
-  **DRIVER EFFICIENCY** 16–17
-  **SAFETY** 18–19
-  **UPTIME** 20–23

SCR / EURO 5

Quester is now available in Euro 5 with the tried and tested SCR system. Page 6.

ALUMINIUM FUEL TANKS & WHEEL RIMS

Larger aluminium fuel tanks capacity allows your trucks to be on the road longer. Page 8.

TRANSMISSION RETARDER

Slows the truck on downhills, reducing brake wear and risk of accidents. Page 11.

ESCOT

The latest in automated manual transmission is an exciting development for easier, fuel efficient driving. Page 12.





ELECTRIC CAB TILT

Allows easier tilting of cab for faster and safer maintenance.
Page 21.

EXTENDED ADR

ADR-adaption means that Quester is regulated for safe transportation of hazardous substances.
Page 19.

ROBUST CHASSIS

Robust, high-tensile steel chassis frame. Proven Japanese reliability and robustness are what our trucks offer.
Page 20.

CAB AIR SUSPENSION

Versatile cab air suspension offers more comfort for drivers.
Page 17.

UD EXTRA MILE SUPPORT

We go the extra mile for you in everything we do, including providing reactive logistics to enable your fleet to go the extra distance.
Page 23.

NEW INSTRUMENT CLUSTER AND FUEL COACH

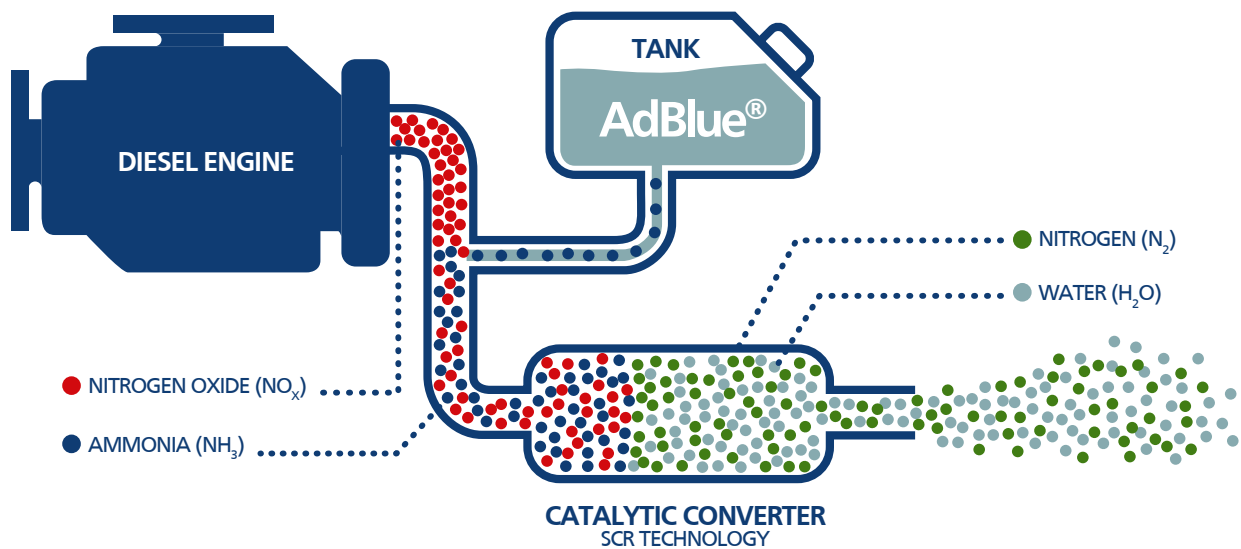
The new instrument cluster provides real time driver-coaching to ensure comfortability, efficiency and safety.
Page 13.

NEW POWER OPTIONS

UD Trucks' GH8E and GH11E engines feature new power alternatives for New Quester.
Page 15.

Drive for better

SCR is an emissions treatment system that reduces harmful pollutants such as nitrogen oxides that are produced during combustion. SCR works in conjunction with AdBlue. The SCR system injects AdBlue on the exhaust gas from the engine, resulting in harmless nitrogen and water vapor.



SCR - Simple, clean and reliable.

With SCR, you can have a truck that's better for the environment, with a higher performing and more durable engine. This is why it's become the globally trusted industry solution, adopted by truck manufacturers around the world.



TOTAL COST OF OWNERSHIP

We have improved our fuel efficiency thanks to the optimized combustion process. This results in more durable trucks with lower servicing requirements and higher power and torque without increasing the engine size.



SUSTAINABILITY

We vow to play our part for cleaner air that allows a sustainable environment for everyone. With Euro 5 SCR, Nitrogen emissions are 43% lower than Euro 4, 60% lower than Euro 3 levels. Particulate matter is 80% lower than Euro 3 levels. Compared with Euro 4 levels, Nitrogen oxides are 43% less.



UPTIME

Longer service intervals means less time required for maintenance. Uptime is also boosted with a stable and expanded AdBlue supply network. AdBlue is available at all authorized UD Trucks dealerships and may also be available at fuel stations, workshops and online.



Towards a better future.

Climate change is accelerating and air pollution, which comes from diesel emissions, is worsening. There is societal demand for stricter emissions regulation in developing countries. UD Trucks has always been a challenger in the market and providing the trucks and services the world needs today.

As a key industry player, we have the responsibility to provide sustainable non-stop operations towards "Better Life" for our customers, society and planet.

As we were the first manufacturer in the world to commercialize SCR technology, we are introducing this

HOW DOES SCR WORK?

The SCR system sprays Adblue onto the exhaust gas reducing pollutants before it is released into the atmosphere. Quester's performance is enhanced whilst reducing harmful emissions by converting nitrogen oxides into harmless nitrogen and water vapor.

WHY SCR?

The SCR system complies with Euro 5 regulations, greatly reducing the allowed nitrogen oxide levels emitted from Quester. With SCR, the engine can operate at its full potential, ensuring complete fuel combustion which leads to better fuel efficiency and improves engine performance and drivability.

tried and tested technology ahead of regulation in most markets to ensure environmental friendliness while providing non-stop operations.

Combined with all available features, with Euro 5 Quester, UD trucks will take care of the essentials needed to keep you on the road while protecting planet earth.

The blue Quester signify the blue skies that we aim to achieve with cleaner emissions. This is our long-term commitment to deliver "Better Life" by going the extra mile in everything we do.

Drive for better with Quester Euro 5.

WHAT IS ADBLUE?

AdBlue is a liquid solution used to reduce the amount of air pollution created by a diesel engine. Made with 32.5% urea and 67.5% deionized water, AdBlue is a colourless, odourless, non-toxic fluid, available in 20-liter containers at all UD authorized dealers.

HOW MUCH ADBLUE IS NEEDED?

The consumption of Adblue is approximately 4-5% of diesel used. Quester has 3 Adblue tank sizes - 20, 34, 50L.



A SMART MOVE FOR PRODUCTIVITY

Transport more with Quester.

With lighter tareweights combined with a powerful driveline offers the possibility to transport more cargo on longer distances.

- Strong, durable and lighter aluminium wheels and tanks mean more cargo can be carried
- Larger aluminum fuel tank capacity allows your trucks to be on the road longer



Optimized driveline

The 8-liter and 11-liter engines powered by UD Trucks' advanced technology, combine reliability with top class performance. Delivering high torque from low revs with flat torque curves, these modern engines provide:

- Better pulling power and easier driving.
- Improved fuel efficiency.
- Extended maintenance intervals.
- Longer life of the engine.

Robust manual transmissions

All Quester models come with a choice of reliable and durable, 6-speed, 9-speed and 12-speed manual transmission, that are able to cope with the toughest demands in various operation conditions.

ESCOT – automated manual transmission

With key components made of aluminium, ESCOT* automated manual transmission contributes to Quester's low weight for higher payload. Choosing the right gear at all times, ESCOT delivers efficient, productive driving with high average speeds and low operating costs.

The PWR+ mode on ESCOT makes construction assignments productive with increased power and high running performance in tough conditions. It features a rock loose mode for quick escape when stuck in slippery and muddy conditions.

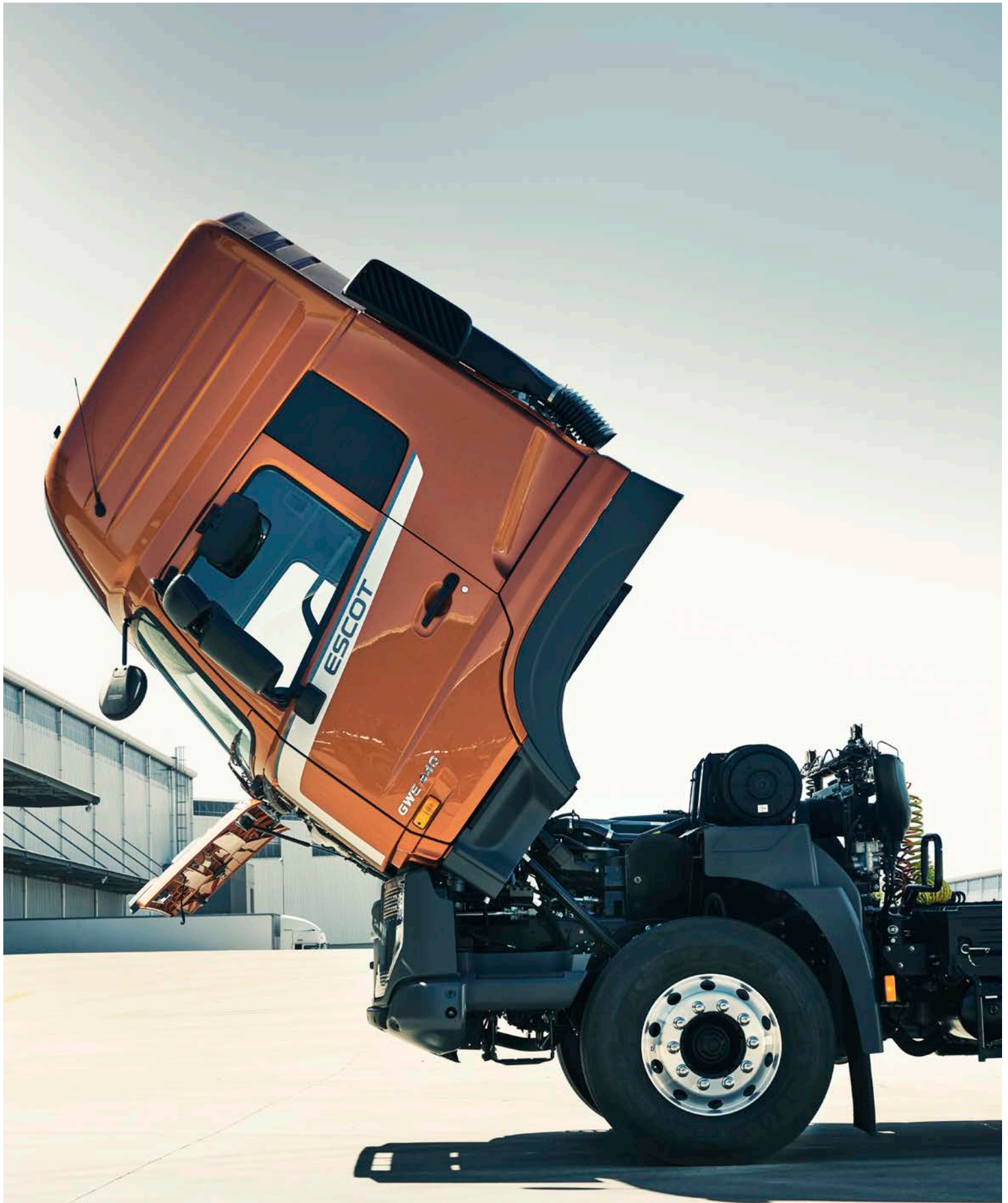
Allison – automatic transmission

Quester featuring Allison transmission is a perfect solution for start-stop operations. Drivers at all levels experience less fatigue, and can focus on the road at all times and during any maneuver. No clutch also means lower maintenance costs.

Available on Quester:

Allison 3000/ 3200 for GH8E
Allison 4000 for GH11E

*Read more about how ESCOT works on page 13.



Easy superstructure
INSTALLATION

Quester is designed for ease of superstructure installation, with comprehensive bodybuilder instructions and drawings. The parallel side members, designed for bodybuilder mounts and range of power take-offs make installation easier.



Open up for greater productivity.

With a variety of innovative features, Quester offers new possibilities for better business.



Seamless fleet control.

UD Telematics is a high-tech wireless communications system that helps your fleet towards greater productivity. It integrates a host of features designed to support you and your business. The easy-to-use UD Telematics mobile app makes 24/7 fleet management convenient and simple.

Read more about telematics on page 23.



Flexible cab layout

The largest cab in UD Trucks' history is perfect for long haul. Walk-through with bunk beds and plenty of storage, the largest in class high roof cab also features a clear instrument panel where everything is within easy reach. More productive assignments are the result.



CLASS-LEADING AXLE LOADS

Quester tops the class in terms of front and rear axle loads.

- Both axles are built extra durable to enable high loads
- Hub reduction version is available for tough construction assignments



TRANSMISSION RETARDER

A new hydraulic retarder delivers enhanced braking torque. This helps Quester improve productivity by making journeys faster. The retarder is coordinated with UD Trucks' Extra Engine Brake and maintains a steady speed while travelling downhill without using service brakes.

The retarder delivers several key benefits including:

- Reduced brake wear
- Steady speed of travel on long downhill drives
- Reduced probability of accidents due to brake fade

BODY BUILDER MODULE (BBM)

Quester BBM offers access to various vehicle signals and functions that are needed by the superstructure control systems for some specialized applications.

- Factory-fitted
- Prekit (plug and play through aftermarket)



A SMART MOVE FOR FUEL EFFICIENCY

ESCOT – big news for Quester.

Easy & Safe Controlled Transmission. First created in 1995 in Japan to reduce fatigue by eliminating clutch operation, ESCOT continues to evolve. Now matched with Quester, it enables all drivers to achieve superior fuel efficiency.

So what is ESCOT?

- A fast-responding automated manual transmission that has built-in intelligence
- Quickly and automatically choosing the right gear at all times



Comfortable and efficient driving performance.

ESCOT, the latest evolution in 12-speed automated manual transmission, and an interior designed for driver comfort, provide a sophisticated and comfortable driving experience that reduces driver stress and fatigue. In an average daily truck operation with a manual transmission, drivers need to shift 1,000 to 1,500 times per day. This constant routine requires focus that could be better devoted to the road and assignment. With ESCOT always selecting the optimal gear, drivers can improve efficiency and productivity regardless of their skill level or experience.

ESCOT: The Benefits

- Better fuel efficiency via seamless gear shifting for every driver
- Improved productivity and efficiency via easier driving
- Less stress and fatigue increases safety
- PWR+ mode offers greater driving stability and smoother takeoff in tough conditions

Simple and easy-to-use gear lever

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

R Reverse.

Creep function is available in the reverse mode to approach loading dock safely.

N Neutral.

Gear lever position for when the truck is parked.

D Drive.

Programmed for automatic and precise gear changes and fuel efficient driving of a professional driver.

M Manual.

Manual mode. You can use the convenient +/- button on the side of the gear lever to change up and down.



Unparalleled operability

ESCOT 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.

How does it actually improve fuel efficiency?

First of all, internal energy losses are low – actually lower than on manual gearboxes. However it's the electronics that really make the difference. When driving in ECO mode, every gear change is timed precisely, to let the engine work at its most efficient rpm range, resulting in higher fuel efficiency.

ECO-ROLL

When in cruise control, the ESCOT ECO-Roll fuel-saving feature calculates when it is optimal for trucks to roll down gradients in neutral.

It maintains speed by automatically disengaging the engine when on flat or down gradient. This makes use of the truck's momentum instead of burning fuel.



A SMART MOVE FOR FUEL EFFICIENCY

Your fuel-friendly combination.

ESCOT & New Quester GH11E

– a winning formula for increased fuel efficiency.

Cruise control

Cruise control reduces driver workload on longer journeys and helps to reduce fuel consumption by maintaining a constant speed.

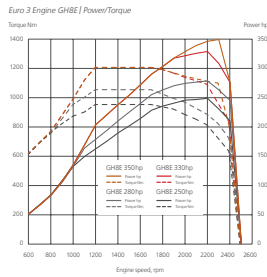
Aerodynamic cab design

Quester cab is designed for increased fuel efficiency.

- Improved fuel efficiency at highway speeds
- Optional roof deflector reduces coefficient drag by 5%

Powerful and efficient performance.

The engines deliver high torque and pulling power at low RPMs, while flat torque curve minimizes the need for gear changing. Meaning higher average speeds and lower fuel consumption in the long run.



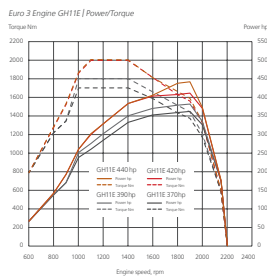
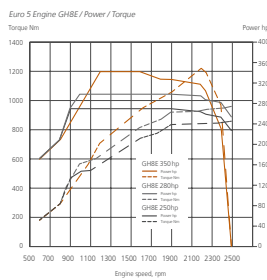
GH8E

- 8-liter diesel engine
- Low operating cost via reduced maintenance and long service intervals
- Turbocharging with air-to-air intercooler
- Available in both Euro 3 and Euro 5
- Power/torque: 250 hp/950 Nm, 280 hp/1050 Nm, 330 hp/1200 Nm, 350 hp/1200 Nm

- Available with optional UD Extra Engine Brake

Available transmissions:

- Automatic (Allison)
- Manual



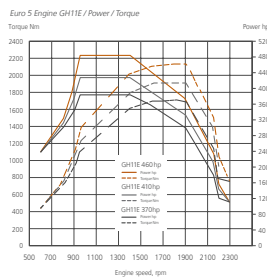
GH11E

- 11-liter diesel engine
- Good torque at low revs delivers fast acceleration
- Low fuel consumption via wide rev range & high thermal
- Available in both Euro 3 and Euro 5
- Turbocharging with air-to-air intercooler
- Engine driven power take-off with high torque output of maximum 650 Nm

- Power/torque: 370 hp/1700 Nm, 390 hp/1800 Nm, 420 hp/2000 Nm, 440 hp/2010 Nm, 410hp/1990 Nm, 460hp/2240 Nm
- Available with optional UD Extra Engine Brake

Available transmissions:

- ESCOT-E automated manual transmission
- Automatic (Allison)
- Manual



Fuel Coach

The best way to improve driving efficiency is to get coaching in real time. All Quester models are equipped with a built-in fuel coach, an onboard solution clearly displayed at the centre of the 5-inch LED display, to give instructions in real time.

Fuel Coach encourages an optimal driving style at all times. It gives feedback and simple suggestions on how to improve safety and fuel efficiency, immediately and over the long term.

- Immediate Feedback:** Unique to the manual transmission on either side of the LED display, the color changes according to your driving style, coaching you to hit your sweet spot more often and drive more efficiently: blue means there's room for improvement and green otherwise. Real time notifications are also given to further improve on fuel consumption and safety.
- Long-term Feedback:** Driving pattern is recorded and feedback is generated after a period, resulting in an overall rating out of 100 that are based 4 performance indicators: engine and gear utilization, speed, anticipation and idling.



A SMART MOVE FOR DRIVER EFFICIENCY

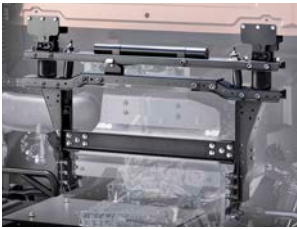
Elevated comfort and better support for drivers

Giving drivers more comfort and room to live and work opens up your business to more profitable opportunities. Quester takes this to a new level.

High Roof Cab

The new High Roof Cab is the largest cab ever built by UD Trucks. An impressively spacious, walk-through cab is equipped with upper and lower bunk beds for shared long-distance assignments.





Cab air suspension

With the introduction of cab air suspension, cab vibration is greatly reduced. This helps lessen driver fatigue and enables better productivity. An air suspended cab is more versatile on different types of terrain, and offers a more consistent all-round driving experience.*



New driver seat

Quester features a new air suspended seat with lumbar support and optional armrest for improved driver comfort. A worthwhile investment in reducing lost time injuries and retaining drivers.*



New steering wheel

Quester features a 4-spoke wheel with improved design, allowing for easier and more stable driving.



New driver training courses

We ensure that all drivers get the full low-down on exactly the truck they will drive. Plus, drivers getting familiar with features and daily checks increases on-road safety.

*Available as option on selected models and markets.

New instrument cluster

The new instrument cluster provides real time driver-coaching to ensure comfortability, efficiency and safety. A simplified design allows drivers to comprehend the information easily and quickly.



Highly visible instrument cluster

Quester has an easy-to-read instrument cluster that provides real time coaching using 4 key performance indicators. Its updated clear-cut design allows for more comfortability, efficiency and safety for drivers. A clear visible gauge lets them check AdBlue levels on vehicles containing the SCR system so they can plan for their next refill.

4 key performance indicators



Engine and gear utilization



Look ahead driving



Speed



Parking and stopping

A SMART MOVE FOR SAFETY

Safety built in for you.

There can be no compromise when it comes to safety. That's why all our built-in safety systems and features are developed and tested to the very highest standards.





High visibility rear view mirrors

Quester cab provides first-class all-round visibility and depending on customer preference or regulations there are two types of rear view mirrors, namely Japanese type and ECE certified.

Driver training

UD Trucks currently offers several useful courses for drivers. This training helps even experienced drivers improve their efficiency behind the wheel for more cost-effective and safe driving.

ECE certification

Quester is fully ECE (Economic Commission for Europe) compliant, meaning that cab safety, braking, ADR, lighting and noise requirements are all certified and approved to European standards. ECE R29 for cab strength is part of this certification.

Front Underrun Protection system

Quester's cab exterior has been designed and developed with the focus on safety. The Front Underrun Protection System (FUPS) is equipped to prevent smaller vehicles from being wedged under the front in the event of a collision.

Available as an option for three-piece steel offroad bumper.

Extended ADR

If specified on the truck, Quester's electrical system is encapsulated and protected from external thermal anomalies. ADR-adaption means that Quester is regulated for safe transportation of hazardous substances.

Available as an option, not included as a standard feature.

Auxiliary brake

A reliable auxiliary braking system on Quester helps to maintain safe speeds and delivers powerful braking without fade.

The UD Extra Engine Brake (UD EEB) is a powerful engine brake that is optional with the 8 and 11-liter engine. It back pressures the cylinders within the engine, using exhaust pressure and a patented ingenious valve system. There is no generation of heat or extra wear and tear on equipment.

Hydraulic retarder

The presence of hydraulic retarder makes downhill driving easier. This reduces brake wear and prevents accidents due to brake fade.

Brake Max mode with ESCOT

When not coupled with a hydraulic retarder, ESCOT features a Brake Max Mode which allows the transmission to continuously downshift for a more effective use of the EEB.

Other braking functions include:

- Exhaust brake on GH8E and GH11E enables fast, reliable engine braking
- ABS (Anti-lock Braking System) improves braking on all surfaces
- Full S-cam air brakes are super-durable for constant use



A SMART MOVE FOR UPTIME

A longer life for components.

PRODUCT UPTIME

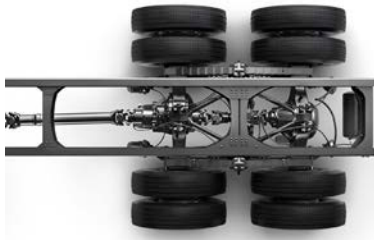
Proven Japanese reliability and robustness are what our trucks offer. Each component is the result of years of development and rigorous stress testing to create the ultimate truck.



Robust, high-tensile steel chassis frame.

The key to efficient transport is increased payload. Quester uses high-tensile steel rails for the main frame to reduce the vehicle's weight, to achieve further improvements in loading performance.

It also comes with a rolling form frame which is good for vertical and torsional stresses when rolling and pitching happen together. This reduces stress from uneven road surfaces, loads with high center of gravity and unevenly distributed loads, making it suitable for many different conditions.



Tough rear leaf suspension

The rear leaf suspension on the 6x4T/R and 8x4R is designed for rough conditions and particularly suitable for construction where durability and high reliability are of highest importance.



Three-piece steel off-road bumper option

A sturdy three-piece steel bumper with high ground clearance and excellent approach angle, is suitable for construction and offroad assignments.



Longer service intervals

The maintenance interval of lubricants for engine transmission and various gears are significantly extended. Oil-bath type of the front axle hub and the larger capacity of the clutch and brake will reduce the lifetime maintenance costs.



Easy maintenance

The large opening of the electric cab tilt allows for easy, quick and safer access to the engine. For daily inspections and maintenance, a checklist is centralized on the front lid.



Hub reduction for tough jobs

For rough and hilly operations, Quanter offers hub reduction for the 6x4R, 8x4R, 6x4T and 4x2T configurations. The increased robustness of the hub reduction axle ensures easier operation, higher ground clearance and longer life of driveline components.



Extended clutch life span

Clutch life on trucks with ESCOT automated manual transmission is estimated to last much longer than those with manual clutch. A transmission retarder ensures less wear of the service brake linings. This ensures brakes stay healthy and functioning with longer intervals between replacements.

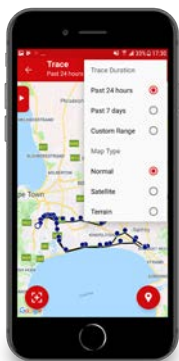


A SMART MOVE FOR UPTIME

Your fastest route to profitability.

UPTIME SUPPORT

UD Telematics Services will help you boost your business by maximizing vehicle uptime and fuel efficiency, while reducing unplanned stops and operational costs. Our services integrate a host of features designed to support you and your assignments.



Geofencing allows you to draw virtual boundaries, which alert you with customized messages when your vehicles cross these boundaries. Geofences can also monitor speed limits within each zone and alert you when these speed limit thresholds are crossed.

The UD Telematics mobile app is a compact version of our UD Telematics web platform, which is available for both iOS and Android devices.

- Know where every truck is, 24/7
- Set the fastest, most direct routes via the Geofencing feature
- Draw boundaries and get alerts if vehicles deviate from route
- Receive alerts when speed limit thresholds are crossed
- Easy-to-understand information



UD Extra Mile Support.



UD Genuine Service

Our UD local Gemba delivers consistent performance for our customers and their businesses. We are continuously improving, being customer-driven, understanding challenges, problems and opportunities. This allows us to go the extra mile to support our customers.

Optimized Service Planning

With longer service intervals, you won't have to visit our workshops and instead get the most out of your fleet. Our optimized service planning uses telematics, which helps us plan any maintenance remotely. It also lets us customize service schedules for your specific application.

UD Service Agreements

Three levels of UD Trust service care are available: UD Trust Standard, UD Trust Extra and UD Trust Ultimate. With these three levels, full transparency, no surprises with unplanned repair expenses and less administration are guaranteed.

UD Driver Training

We want to encourage new drivers to make a positive contribution to your operations. Our Driver Training program is designed to help build driver capability. Courses cover not only vehicle handover and operation, but also the best methods for fuel efficient and safe driving. Dedicated modules are available for long haul drivers.

UD Genuine Parts

Because every part of your trucks matter. Designed and tested to provide the highest quality and durability, and with a two-year warranty, access to UD Genuine Parts increases uptime and lowers costs per kilometer.



UD Telematics

UD Telematics Services is a smart, high-tech wireless communications system supported by our network of UD dealers and specialists. It is designed to improve your competitive position through business improvement and efficiency.

Remote diagnostics monitor truck health and performance, helping to reduce fuel and operational costs, improving fleet management, increasing vehicle uptime and offering you peace of mind.



UD Mobile Workshop

UD mobile workshop brings basic workshop services right to your doorstep. Our trusted professional mechanics can provide preventive maintenance, basic repairs, oil changes or electronic diagnostics using UD Trucks systems and tools. Saving you time and money for the long haul.



UD Road Support

We know how it feels to experience an unexpected standstill. Operating 24/7, UD road support will get you back up and running in no time. Offering reliable UD Genuine Service and quality UD Genuine Parts, our dedicated call center specialists will stay with you every step of the way until your issue is resolved.

“Quester meets today’s essential needs in our markets around the world.”

Toshi Odawara, Head of Quester Product Line talks about Quester’s evolution as a smart and modern transport solution.



Why do you need to continuously upgrade Quester?

Upgrading Quester is based on changes in the market needs. The essential needs in fast growing markets around the world has been changing depending on the economic and transport industry trends. This means our transport solutions must also adapt and deliver on time.

What do you believe are the most important challenges that customers face today?

Definitely managing the transport operational cost, managing deliveries at the right time with the right cost and securing skilled drivers. Upcoming challenges will be to cope with evolving regulation to be environment-friendly, road-friendly, and supporting a sustainable society.

How can Quester be the solution to these challenges?

Having ESCOT will improve fuel-efficiency by avoiding the fluctuation of performance per driver. It will support the driver’s life in the cabin, making them feel at home during long trips, with more space and essential features. Finally, the simplicity and robustness allow an easy maintenance and a strong reliability. All while being ready to face the upcoming environment-friendly regulations. We are also improving our service network to continuously support uptime and peace of mind of the drivers.

How do you see Quester as a part of UD Trucks’ evolving customer partnership?

Since the birth of Quester, we have been learning from our customers, and we have identified the essential needs to make sure we provide proper performance and support. Recently, there has been big trends coming in the automobile industry focusing on automation and electromobility. I want Quester to be a truck that always stands beside our customers with essential evolutions ensuring they have peace of mind for their businesses. We will ensure the readiness for these innovative demands when the time comes. Our customers' voice is the most important, at all times.

TECHNICAL SPECIFICATIONS

Quester range.

Configuration overview

Model	Axle Configuration	Max GVW/GCW (Tons)	Engine Type	Engine Power (hp)	Transmission	Rear Axle
CKE	4x2 Rigid	21T GVW	GH8E	250/280/330/350	6S MT/ 9S MT	Single reduction
CDE	6x2 Rigid	31T GVW	GH8E	250/280/330/350	6S MT/ 9S MT/ 6S AT	
CWE	6x4 Rigid	34T GVW	GH8E	250/280/330/350	9S MT/ 6S AT	Single reduction/ Hub reduction
			GH11E	370/390/410/ 420/440/460	9S MT/ 12S MT/ 12S AMT/ 6S AT	
CQE	8x2 Rigid	38T GVW	GH8E	250/280/330/350	9S MT	Single reduction
CGE	8x4 Rigid	41T GVW	GH8E	250/280/330/350	9S MT	Single reduction/ Hub reduction
			GH11E	370/390/410/ 420/440/460	9S MT/ 12S MT/ 12S AMT/ 6S AT	
GKE	4x2 Tractor	60T GCW	GH8E	280/330/350	9S MT	Single reduction
			GH11E	370/390/410/ 420/440/460	9S MT/ 12S MT/ 12S AMT	Single/ Hub reduction
GDE	6x2 Tractor	48T GCW	GH8E	250/280/330/350	9S MT	Single reduction
			GH11E	370/390/410/ 420/440/460	9S MT/ 12S MT/ 12S AMT	
GWE	6x4 Tractor	80/100T GCW*	GH8E	250/280/330/350	9S MT	Single reduction/ Hub reduction
			GH11E	370/390/410/420/440/460	9S MT/ 12S MT/ 12S AMT	

11L 390hp, 420hp and 440hp only available for EU3. 11L 410hp and 460hp only available for EU5.

**For selected markets and applications only.

Wheelbases

Tractor	3200			3400			3500			3600			3700		
4x2								○							○
6x2					○										
6x4		○			○						○				

Rigid	3400	3500	3700	3900	4000	4100	4300	4600	4900	5100	5200	5600	5800	6000	6100	6300	6500
4x2		○			○		○	○	○		○			○			○
6x2								○		○		○			○		○
6x4	○		○	○		○	○	○	○		○	○			○		
8x2												○	○				
8x4							○	○	○	○		○				○	

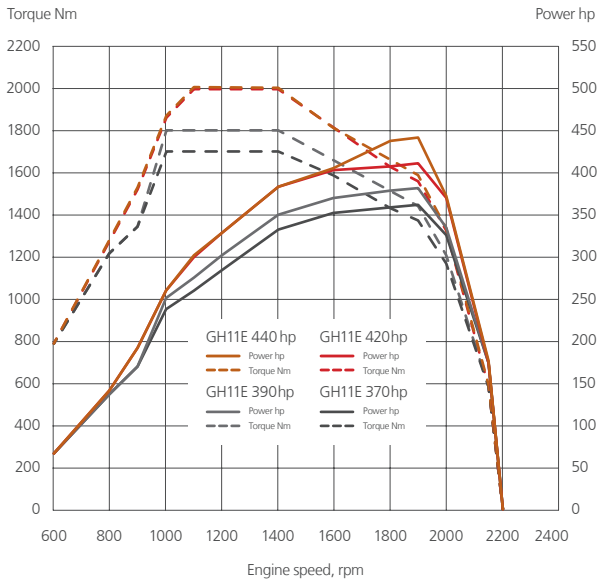
Load capacity

Tractor	REAR SUSPENSION		FRONT SUSPENSION		DRIVELINE	
	Type	RAL	Type	FAL	Engine	Rear axle
GKE 4x2T	Multileaf	13t	Parabolic	7.5/8.0t	GH11E/GH8E	Single Reduction
GDE 6x2T	Multileaf	23t	Parabolic	7.5/8.0t	GH11E/GH8E	Single Reduction
GWE 6x4T	Multileaf	23/26t	Parabolic	7.5/8.0t	GH11E/GH8E	Single/Hub Reduction

Rigid	REAR SUSPENSION		FRONT SUSPENSION		DRIVELINE	
	Type	RAL	Type	FAL	Engine	Rear axle
CKE 4x2R	Multileaf	13t	Parabolic	7.5/8.0t	GH8E	Single Reduction
CDE 6x2R	Multileaf	23t	Parabolic	7.5/8.0t	GH8E	Single Reduction
CWE 6x4R	Multileaf	23/26t	Parabolic	7.5/8.0t	GH11E/GH8E	Single/Hub Reduction
CGE 8x4R	Multileaf	23/26t	Parabolic	15t	GH11E/GH8E	Single/Hub Reduction
CQE 8x2R	Multileaf	23t	Parabolic	15t	GH8E	Single Reduction

Driveline

Euro 3 Engine GH11E | Power/Torque



GH11E general description

In-line 6-cylinder four-stroke diesel engine with unit injector high-pressure direct injection. 4 valves per cylinder. Turbocharging with air-to-air intercooler.

Displacement	10.8 liters
Economy rev range	900–1400r /min
Emission level	EU3 and EU5

GH11E 370hp

Max Power at 1900 r/min	370 hp (278 kW)
Max Torque at 1000–1400 r/min	1700 Nm

GH11E 390hp (EU3 only)

Max Power at 1900 r/min	390 hp (293 kW)
Max Torque at 1000–1400 r/min	1800 Nm

GH11E 410hp (EU5 only)

Max Power at 1900 r/min	410 hp (305 kW)
Max Torque at 1100–1400 r/min	1990 Nm

GH11E 420hp (EU3 only)

Max Power at 1900 r/min	420 hp (315 kW)
Max Torque at 1100–1400 r/min	2000 Nm

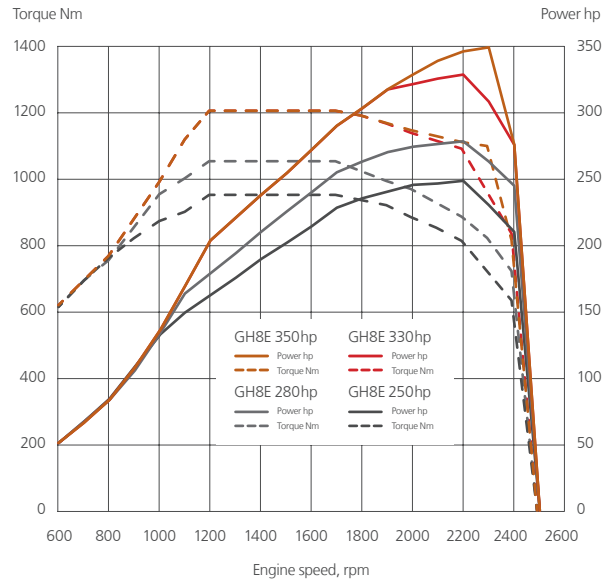
GH11E 440hp (EU3 only)

Max Power at 1900 r/min	440 hp (330 kW)
Max Torque at 1100–1400 r/min	2010 Nm

GH11E 460hp (EU5 only)

Max Power at 1900 r/min	460 hp (343 kW)
Max Torque at 1100–1400 r/min	2240 Nm

Euro 3 Engine GH8E | Power/Torque



GH8E general description

In-line 6-cylinder four-stroke diesel engine with common rail high-pressure direct injection. 4 valves per cylinder. Turbocharging with air-to-air intercooler.

Displacement	7.7 liters
Bore	110 mm
Stroke	135 mm
Compression ratio	17.5:1
Exhaust brake effect at 2500 r/min	145 hp (107 kW)
Economy rev range	900–1600r /min
Oil-change volume, including oil filters	approx. 20 liters
Oil filters, no.	1 full-flow
Cooling system, total volume	approx. 37 liters
Dry weight (base engine)	approx. 712 kg

GH8E 250hp

Max Power at 2200 r/min	250 hp (184 kW)
Max Torque at 1000–1700 r/min	950 Nm

GH8E 280hp

Max Power at 2200 r/min	280 hp (206 kW)
Max Torque at 1000–1700 r/min	1050 Nm

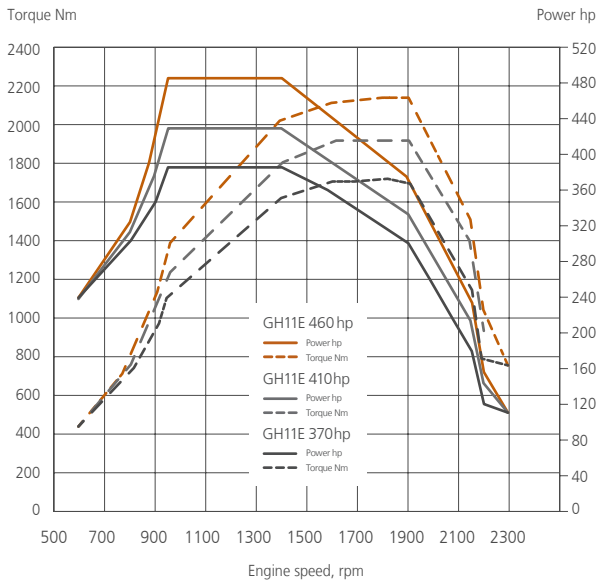
GH8E 330hp

Max Power at 2200 r/min	330 hp (243 kW)
Max Torque at 1200–1650 r/min	1200 Nm

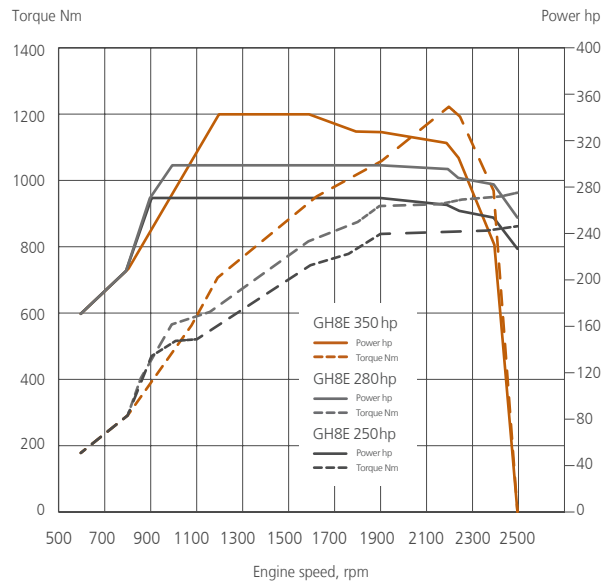
GH8E350hp

Max Power at 2250 r/min	350 hp (258kW)
Max Torque at 1200–1650 r/min	1200 Nm

Euro 5 Engine GH11E / Power / Torque



Euro 5 Engine GH8E / Power / Torque



Transmission

Manual Transmission

Type	Top gear	Input torque	Gears	8L	11L
ST1006	Directdrive	1000 Nm	6	○	
ST1199	Directdrive	1190 Nm	9	○	
STO2009	Overdrive	2000 Nm	9		○
STO2012	Overdrive	2000 Nm	12		○

Automated Manual Transmission (AMT)

Type	Top gear	Input torque	Gears	11L
ESCOT-E	Overdrive	2600 Nm	12	○
	Directdrive	2600 Nm	12	○

Automatic (Allison) 6-speed fully automatic transmissions

Type	8L	11L
AL306	○	
AL326	○	
AL446		○

Engine Output and Torque - EU3/EU5

Engine	Power (hp/kw)	RPM	Torque (Nm)	RPM
GH8E 250 (EU5)	250/184	2200	950	1000-1800
GH8E 280 (EU5)	280/206	2200	1050	1100-1800
GH8E 330 (EU3)	330/243	2200	1200	1200-1650
GH8E 350 (EU5)	350/258	2200	1200	1200-1600
GH11E 370 (EU5)	370/278	1800	1790	950*
GH11E 390 (EU3)	390/293	1900	1800	1000-1400
GH11E 410 (EU5)	410/308	1800	1990	950*
GH11E 420 (EU3)	420/315	1900	2000	1100-1400
GH11E 440 (EU3)	440/330	1900	2010	1100-1400
GH11E 460 (EU5)	460/346	1800	2240	1200*

*Peak rpm values as per engine certification, EU5 11L engines also have flat torque.

Interior dimensions	Standard roof	High roof
Length, (front window to back panel)	1830 mm	2030 mm
Width, (inner door trim to door trim)	2090 mm	2090 mm
Height, (floor to roof above driver's head)	1445 mm	2000 mm

Single reduction axle	Max. engine torque	Reduction
Hypoid gear	2010 Nm	Tandem: 3.70, 4.11, 4.30, 4.63, 5.14, 5.57, 6.17 Solo: 3.91, 4.30, 4.89, 5.63

Hub reduction axle	Max. engine torque	Reduction
Spiral gear + Planetary gear	2010 Nm	4.08, 4.87, 5.24, 5.79, 6.37

The tandem hub reduction axle is equipped with reliable and robustly dimensioned 2 stage differential lock as standard. Stage 1 is inter-axle and stage 2 is between wheels.

Power Take-Off (PTO) system

Engine PTO options are available on both 8L and 11L engines with either a flange or a spline output. Various transmission PTO options are also available with both output types on the manual and AMT transmissions.

Cabin

Interior

Interior dimensions	Standard roof	High roof
Length, (front window to back panel)	1830 mm	2030 mm
Width, (inner door trim to door trim)	2090 mm	2090 mm
Height, (floor to roof above driver's head)	1445 mm	2000 mm

Specifications and options may differ depending on each country due to regulations or special requirements. Please contact your nearest UD Trucks dealer for further details.



UD TRUCKS

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