HINO 700 Series
Driven to Perfection

Euro 4

HINO
...Driven to Perfection: the
Features external

The use of aluminium in the transmission case and air tank, and the adoption of nylon tubing, a single-skin frame and parabolic springs help decrease chassis weight, while ensuring tensile strength and rigidity. Front axle capacity has also been increased. Together, these improvements provide even greater load capacity. For Mixer application a flywheel PTO is offered and also an idle-up switch.

- Easier cabin access The first step is now connected directly to the chassis, bringing it closer to ground level. Cabin access is also easier and safer due to the new, optimized 3-step pitch.

- H-marked muffler The Hino mark has been added to the muffler insulator on the 4x2 Tractor.

- Body mounting The air pressure has been raised, the air tank made more compact, and the battery unit integrated into it for easier body mounting.

- Stack intake The stack intake ideally suits the new cab design, improving appearance and reducing air resistance and fuel consumption.

New Features
- Alloy air tanks
- Taper roller braking system
- All new cabin
- New 13L. engine
Rear view mirrors

- The rear view mirrors are electrically heated and motorised for remote control operation.

Rear air suspension on 4x2 Tractor only

- The air suspension system dampens road vibrations and effectively prevents load shifts and cargo damage.
HINO 700 series

All-around curtains

- Only on 4x2 Tractor unit.

Cab interior

- New cab interior has been ergonomically designed to provide the driver with a pleasant workspace with all controls to hand minimizing fatigue improving productivity.

Backlit meters

- The use of LED illumination means no instrument meter or indicator lamp burnout. The high color saturation also improves readability.

Cabin comfort

- Larger cabin space. The spacious cabin and full-flat seat & bed provide a pleasant respite.
Features internal

Inside the cab is a world of comfort. Professional drivers will appreciate the cab mounting 4 point air suspension, the parabolic springs, the greater interior space and expanded headroom. And they’ll love the centralized control switches that wrap around the driver, the clearly visible backlit meters, and the easy-to-reach pendulum-type pedals that cut down on driving fatigue. Meanwhile, the new 3-step entry has made cabin access easier and safer.

- **Pendulum-type pedals** respond perfectly to professional driving. The brakes respond according to how the pedal is pressed, giving a superior braking feel. Since there is no need to stretch out one’s ankle, controlling the brakes is easier, and allows the driver to press the brake down all the way in the event of a sudden stop.

- **Energy-absorbing steering column** In the event of a head on collision, the bendable, energy-absorbing steering wheel and collapsible tilt/telescope steering column help absorb some of the impact, to better protect the driver.

- **Door impact beams** High-rigidity door impact beams on either side help prevent bending of the door frame in an accident, and keep the driver/passenger safe.

- **High-functionality seats** The three-dimensional, body-cradling form and seat suspension from ISRI, a top European name, provides superior seating comfort. The air lumbar support (with two-position backrest) supports the driver’s back comfortably.

**New Features**
- Easier and safer cabin access
- First step closer to the ground
- Increased foot space
- Larger steering wheel adjustability
Pulling in bigger profits through outstanding fuel economy and comfort
As the world changes, new potentials are being demanded from heavy-duty trucks. To meet that demand, we at Hino have created the revolutionary HINO 700 Series to be the new standard for trucks in the 21st century. These vehicles embody the five fundamental development objectives that describe the kind of trucks we are committed to build: environmentally friendly trucks that clear the highest international standards; trucks that generate revenue for our customers; trucks that smoothly and dependably transport the cargoes they carry; trucks with a higher load capacity; and trucks that are safe and pleasant to drive.

Hino's heavy-duty tractors in this 700 Series offer a completeness that will satisfy every owner, consignor and driver and leave the competition behind. Take the wheel, and experience the perfection.
Side windows
The side window division bar has been removed, improving ventilation and direct vision, and making it easier to put one’s head out the window when necessary. Mirrors are electrically heated and remote controlled.

EGIS cab
The high-rigidity EGIS (Emergency Guard Impact Safety) cab with reinforced main frame, door impact beams, energy-absorbing collapsible steering column, 3-point seat belts and other advanced safety features helps protect the driver in the event of a collision.

Enhanced safety
- Energy absorbing steering
- Collapsible steering column
- Steel plate type door impact beams
- Cab main frame reinforcement
- The sectional area of the floor frame has been increased in order to help collision force go to the rear. A survival space is thus secured.
- Prevention of buckling of the floor frame front portion.

The biggest safety features are a powerful new engine retarder system and a rugged EGIS (Emergency Guard Impact Safety) cab with door impact beams, energy-absorbing steering wheel, 3-point seat belts and other advanced collision safety features.
HINO 700 series, safety you can count on.

FUP
Front Under run Protection. The Front Underrun Prevention Guard prevents smaller vehicles from sliding under the front of the truck in a collision. FUP is available only on Cargo versions.

Headlamps
Bumper-level headlamps minimize glare. This safety feature was introduced ahead of the relevant EU directive.

Ease of Cab entry
The new three step system and easy reach grab handles ensure safe entry and exit from the cab minimising fatigue.

protection systems. Additional features include pendulum-type pedals that reduce fatigue, and a device to prevent smaller vehicles from sliding under the front of the truck in a collision.
These trucks deliver superior fuel economy and outstanding power and performance, thanks to the new E13C-TI engine with high-pressure common-rail fuel injection system and Variable Nozzle Turbocharger (VNT), and the 16-speed transmission with higher torque at lower engine rpm. HINO 13EC-TI engine for Euro 4 uses EGR (Exhaust Gas Recirculation) and therefore the use of AdBlue® is not required.

**ZF 16-speed transmission**
The driver-friendly ZF 16-speed transmission has a wider gear range to cover the popular ratio range for this transmission class.

**Engine Maintenance**
Maintenance is easier than ever before due to the maintenance-free engine fan belt (auto-tensioner + poly V-ribbed belt), the top-serviceable engine filters, the centralized placement of periodically inspected engine items, and the placement of the oil level gauge inside the engine compartment.

**Engine retarder**
The engine retarder is an auxiliary brake that utilizes resistance from the engine’s compression and expansion as braking force. It is particularly useful on downhill inclines, as it helps to reduce the number of times the brake pedal must be pressed, thereby extending the life of the brake linings, and reducing maintenance costs. Using the engine retarder to decelerate is almost effortless, lessening driver fatigue.
Ultimate driver comfort

The advanced capabilities and flexible capacity of the HINOS 700 Series deliver the benefits of tomorrow's technology today, to boost your operating performance and profits. They combine greater load capacity, powerful versatile performance, and advanced safety and environmentally friendly features to meet all your future transportation needs.

A spacious, serviceable and comfortable cab, designed for enhanced safety.
Comfortable cab
An expanded cab interior that makes smooth driving a reality, while striking a high level of balance between comfortably and handling. Professional drivers will not get tired, even after a long ride. But if they do so, the spacious cabin and full-flat seat and bed provide a pleasant respite.

Under-bed storage space
Storage space is provided under the removable bed mat for convenience.

Audio system
In-cab entertainment is provided by an AM/FM Radio, Cassette Tape Deck and a CD Player.

Dashboard-mounted speakers
The placement of the dashboard-mounted speakers has significantly improved acoustic effects.

Convenient storage space
Two cup holders within easy reach can hold a variety of cup sizes and shapes.

New retarder system
The retarder system, which combines the auxiliary brake (engine brake) and foot brake, is a standard feature. The retarder works when the auxiliary brake switch is in the 'AUTO' position. Unlike retarders that work off the accelerator, this one engages when the brake pedal is pressed, so deceleration occurs only when you actually want to slow down, contributing to fuel savings and brake lining life. Engaging the retarder delivers much higher stopping power than that provided by brakes alone.
Solution overview

The HINO 700 Series of heavy-duty trucks was developed from the customers’ perspective. The basic development concept was to create “trucks that generate revenue for our customers.” To this end, we developed these new heavy-duty trucks based on the following five fundamental development objectives:  
- Clear the Highest International Standards: Environmentally Friendly Trucks  
- Trucks that Generate Revenue for Our Customers: No. 1 in Lifetime Cost Savings  
- Trucks that Smoothly and Dependably Transport the Cargoes they Carry: No. 1 in Transport Quality  
- Trucks with Higher Load Capacity: No. 1 in Load Efficiency  
- Trucks that are Safe and Pleasant to Drive: No. 1 Truck to drive.

In line with Hino’s branding policy, which stipulates that we must “unify our product names under HINO brand all over the world”, the new heavy-duty trucks to be launched at this time have been named the HINO 700 Series. The use of names combining HINO, a number to represent light-, medium-, or heavy-duty class, and the word ‘Series’ has been chosen to consistently promote the ‘HINO’ brand name, thereby raising our customers’ awareness of the Hino brand. The purpose of this ‘simple branding’ policy is to guarantee customers satisfaction with Hino’s products, sales, services and other aspects of business, to raise brand awareness, and to endow the brand with a higher level of trust.
We will fulfill our responsibility to customers from a variety of social contributions

Hino Motors’ social responsibilities are, first of all, to the customers who use our products. In addition, we are conscious of the role we play as a corporate citizen and are making an effort to respond to social needs and create a society where we can live safely and have peace of mind. We have been offering workshops on energy-saving driving at the Ibaraki proofing ground. After a lecture on energy-saving driving using a text, participants actually drove on the test course and experienced the benefits of energy-saving driving. In FY2003, a total of 26 companies (about 900 people) participated in these workshops.

Hino wants to be a good member of society as a corporate citizen, both in Japan and internationally. Our activities include Hino Motors Green Fund that was established to contribute to preserving the natural environment by restoring natural ecosystems, protecting rivers and wetland environments, and by establishing a national trust, among other activities. Hino is also involved in a wide range of other activities, such as providing scholarships to high school students.

Hino global environmental charter

**BASIC POLICIES**
1. Promote comprehensive and ongoing environmental protection
2. Take concrete and definite steps to protect the global environment

**ACTION GUIDELINES**
1. We are minimizing the environmental impact of our corporate activities, in general, and of our vehicles throughout their life cycle
2. We are developing a closer partnership with our affiliated companies
3. We will make greater efforts within the areas of information disclosure, education and awareness-promotion activities
4. As corporate citizens, we take an active part in a range of community activities to benefit society

Aiming at a comprehensive approach to the environment and promoting it through the entire corporation

POSITIONING ENVIRONMENTAL CONSERVATION AS AN IMPORTANT MANAGEMENT ISSUE, WE ARE IMPLEMENTING COMPREHENSIVE STEPS BY ESTABLISHING THE HINO GLOBAL ENVIRONMENT CHARTER AND THE HINO MOTORS ENVIRONMENTAL VOLUNTARY PLAN, AS WELL AS ORGANIZING THE COMPANYWIDE HINO ENVIRONMENT COMMITTEE
HINO Euro4 emission technologies do not require the use of AdBlue.
HINO low-emission technologies with excellent reliability.

1) Common Rail Fuel Injection
Hino Motors commercialized the common rail fuel injection system for middle trucks in 1995 for the first time in the world. The common rail system keeps fuel under high pressure and supplies to individual injectors uniformly. The fuel injection pressure, injection timing and period (quantity of fuel) are electronically controlled very precisely to realize the ideal combustion. The common rail system reduces noise and vibration to alleviate the driver’s fatigue.

2) Exhaust Gas Recirculation (EGR)
(1) EGR
Exhaust gases are mixed with the intake air to reduce combustion temperature and slow down combustion in the cylinder. This reduces NOx emissions significantly.

(2) Electronically controlled Pulse EGR
The exhaust valve is momentarily opened when fresh air is supplied to the cylinder. The flow of the high-pressure exhaust gases is reversed and fed into the cylinder through the opened intake valve. This decreases the combustion temperature to reduce NOx emissions.

3) High-ef ficiency Cool EGR
A cooler is set in the path of the EGR gas. The high-temperature EGR gas is cooled through the spiral cooling tube and mixed with intake air. This decreases the combustion temperature and reduces NOx emissions more than the standard EGR. By cooling, the concentration of intake air increases to increase the quantity of air, thereby achieving almost complete combustion. This effectively reduces PM emissions and black smoke.

(4) Combined EGR System
The field-proven electronically controlled pulse EGR and the efficient cool EGR are combined to further reduce NOx emissions. This is the world’s first innovative low-emission technology from HINO.
Sole concessionaire Ireland and United Kingdom:

J. Harris Assemblers
Naas Road, Dublin 12, Ireland
Phone: +353-1-419 4500 - Fax: +353-1-460 2284

Hino reserves the right to change specifications and equipment without notice. Details of specifications and equipment mentioned or shown in this catalogue are also subject to change to meet local conditions and government requirements. Please inquire at your local Hino dealer for more complete details of any such changes that may be required.