



300

714 Hybrid



4 x 2 Cab Chassis

KEY FEATURES

- | | |
|------------------------------|--------------------------------------------|
| Hybrid Technology | Dual SRS airbags |
| • Electric diesel power | 4-wheel disc brakes |
| • Idle Stop | Energy Absorbing Steering Wheel |
| • Regenerative braking | Diesel Particulate Active Reduction System |
| ABS Brakes | |
| Easy Start – Take-off Assist | |

KEY SPECIFICATIONS

- GVM.** 6500kg
- GCM.** 10,000kg
- Diesel engine : Power** 100kW @ 3000rpm
- Torque** 353Nm @ 1600rpm
- Hybrid electric motor : Power** 36kW @ 1000rpm
- Torque** 350Nm @ 1000rpm
- Transmission** Six-speed synchromesh
- Wheelbase** 3430mm



714 Hybrid

Engine & Driveline specifications

ENGINE

Model	HINO N04CTN
Max. output (ISO NET)	100kW (136 PS) at 3000rpm
(JIS GROSS)	104kW (140 PS) at 3000rpm
Max. torque (ISO NET)	353Nm (36kgf/m) at 1600rpm
(JIS GROSS)	353Nm (36kgf/m) at 1600rpm
Max. engine speed	3100rpm
Engine compliance	ADR 80/02 (using Japanese NLT 05)
Type	Diesel, turbocharged & intercooled, four-cylinder in-line, overhead camshaft & water-cooled
Combustion system	Direct injection with EGR
Bore & stroke	104 x 118mm
Piston displacement	4.009 litres
Compression ratio	18.0:1
Engine oil capacity	8.2L
Fuel injection pump	Electronic control common-rail type
Air cleaner	Paper element
Fan clutch	Equipped
Exhaust	Horizontal outlet
DPR	Diesel Particulate Active Reduction System

HYBRID MOTOR

Type	AC 3 phase
Volume	288 Volt
Max output	36kW
Max torque	350Nm @ 1000rpm
Idle stop	Equipped
Battery type	Nickel metal hydride
Capacity	23.4kC {6.5Ah}

CLUTCH

Model	300 series
Type	Dry single plate with damper springs
Facing material	Moulded (non-asbestos)
Facing outside diameter	300mm
Control	Hydraulic with air booster

TRANSMISSION & GEAR RATIOS

Model	MY6S
Type	Six forward and one reverse speeds, synchromesh on 1st to 6th and reverse

Control Mechanical

1st	.5.979	5th	.1.000
2nd	.3.434	6th	.0.759
3rd	.1.862	Rev.	.5.701
4th	.1.297		

Rear axle gear ratio 4.875:1

PERFORMANCE

Calculations based on 6.5 ton GVM, 205/85R16

Max theoretical speed (km/h)	116
Gradeability tan θ (%) @ GVM	45.1

BRAKES

Type	Hydraulic system with disc brakes front & rear
Control	Vaccum servo & hydraulic
Disc diameter	
Width	Front 296mm Rear 287mm
ABS	Equipped
Easy Start	Equipped
Electronic Brakeforce Distribution (EBD)	Equipped
Parking brake	Mechanical, internal, expanding acting on transmission output shaft
Exhaust brake	Electric-vacuum with valve in exhaust pipe

AXLE LOAD & TYPE

Axle load limit	Front axle	3100kg
	Rear axle	5100kg
Front axle type	LF366 series, Reversed Elliot, I-Beam	
Rear axle type	SH12 Full-floating, single reduction, single-speed hypoid	

SUSPENSION

Front suspension Type	Semi-elliptic tapered leaf springs with shock absorbers and stabiliser
Size	1250 span x 70mm width
Rear suspension Type	Semi-elliptic main & auxiliary taper leaf springs with shock absorbers
Main springs	1300 span x 70mm width
Auxiliary springs	900 span x 70mm width

WHEELS & TYRES

Wheel type	Six-stud disc wheel (JIS type) PCD 203.2
Rim size	205/85R16 117/115
Tyre size	16 x 5.5K – 115mm
Number of tyres	Seven (including one spare tyre)
Spare tyre carrier	Equipped

FUEL TANK

Capacity	100L
Fuel pre-filter & sedimenter	Equipped
Fuel tank cap key	Equipped



714 Hybrid

Cab, Instrumentation & Chassis



CAB DETAILS

Type	Forward control, all-steel construction with torsion bar tilt mechanism
Seating capacity	Three
Driver's seat	Urethane foam pads, high-back, 2-way adjustable seat with fabric cover
Passenger seats	Urethane foam pads, high-back & bench seat with centre, foldaway type back tray, fabric cover
Seat belt	3-point type on driver's & side passenger's seat, 2-point type on centre passenger's seat
Sun visor and overhead console	For driver & passenger sides
Windshield wipers	Electric, dual, intermittent & 2-speed
Ventilator	Forced type by electric blower
Rear view mirrors	Inside: One, flat type Outside: Two flat type, one convex spotter
Cigarette lighter 24V	Equipped
Floor mat	Vinyl type
Central locking & keyless entry	Equipped
Heater and defroster	Standard
Air conditioner	Standard
Trim	Full trim type (side, roof & back)
Cab pockets	Equipped on both door sides
Power windows	Equipped
Audio	AM/FM radio with CD player
Speakers	Driver & passenger sides
Easy Start	Equipped
Cup holder	Equipped
SRS airbag	Equipped for driver & outside passenger

ELECTRICAL

Type	24V, negative earth
Batteries	2 x12V, series connection. Capacity 80Ah at 20-hour rate
Alternator type	Brushless with built-in rectifier and voltage regulator. Capacity 24V, 80A
Headlamps	Semi-sealed beam, halogen type 2-head lamps
High/low beam	Equipped
Fluorescent reading lamp	Equipped
Electric horn	Equipped

INSTRUMENTS

1. **Meters & gauges**
 - Speedometer with trip meter
 - Odometer
 - Tachometer
 - Fuel gauge
 - Coolant temperature gauge
2. **Switches**
 - One-key starting-stopping
 - Lighting
 - Directional indicator, dimmer & passing
 - Wiper and washer
 - Hazard lamp
 - Exhaust brake
 - Map lamp
 - Fog lamp
 - Easy Start
 - Head lamp leveling
 - DPR switch
 - Idle stop switch
3. **Warning, pilot lamps & buzzers**
 - Oil pressure warning lamp & buzzer
4. **Others**
 - Vacuum warning lamp & buzzer
 - Engine over-run warning buzzer
 - Coolant level warning lamp & buzzer
 - Brake fluid level warning lamp & buzzer
 - High beam indicator lamp
 - Turn signal indicator lamp
 - Parking brake indicator lamp
 - Seat belt warning lamp & buzzer
 - ABS warning lamp
 - SRS warning lamp
 - DPR warning lamp
 - Hybrid lamps charge/discharge
 - Economy regeneration battery gauge
 - Exhaust brake indicator lamp
 - Engine control system warning lamp
 - Hazard indicator lamp
 - Back-up warning buzzer
 - Idle up control knob
 - Horn button

STEERING

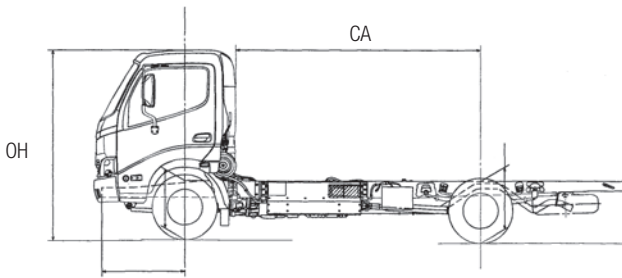
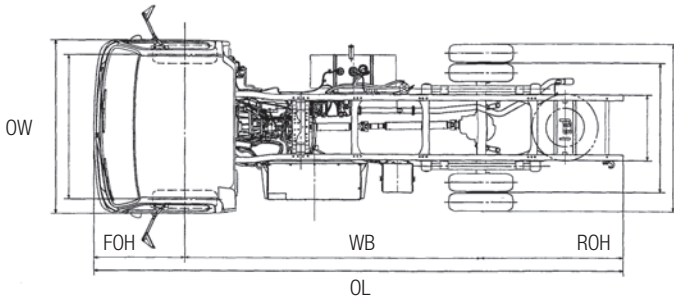
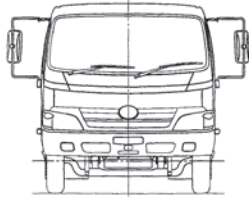
Type	Telescopic & tilt steering column with locking device. Recirculating ball with Integral Power Steering
Gear ratio	20.9:1

CHASSIS FRAME

Type	Ladder-shaped channel-section side rails
Rear chassis width	750mm
Max. section (depth x flange x thickness)	192.8 x 65 x 5.9mm
Tensile strength	540N/mm ² {55kgf/mm ² }
Hooks	Equipped for front & rear



714 Hybrid Dimensions



DIMENSIONS - mm / Capacities

Model	HINO 714 Hybrid
Production code	XKU418R-HKFQBQ3
Wheelbase (WB) . . . . .	.3430
Overall length (OL) . . . . .	.6120
Overall width (OW) . . . . .	.1995
Overall height (OH) . . . . .	.2190
Cab to rear axle centre (CA) . . . . .	.2840
Rear overhang (at frame end) (ROHF) . . . . .	.1645
Front chassis height (HF) . . . . .	.680
Rear chassis height (HR) . . . . .	.765
Road clearance (at diff. case) (RC) . . . . .	.195
Front track (FT) . . . . .	.1665
Rear track (RT) . . . . .	.1520
Turning circle kerb to kerb	11,400
Turning circle wall to wall	12,760
Chassis mass – kg (10 litres of fuel & tools without spare tyres)	
Total . . . . .	.2465
Front . . . . .	.1640
Rear . . . . .	.825
GVM . . . . .	.6500
GCM . . . . .	.10,000

WARRANTY

New vehicle warranty period Battery warranty is 12 months from date of delivery.

Medium Duty Model	300 714 Hybrid
Axle Configuration	4 x 2
Standard warranty <small>(whichever comes first)</small>	3 years or 100,000km
Cab corrosion perforation	36 months



www.hino.co.nz

DISCLAIMER

Important notice. Hino Trucks are distributed in New Zealand by Hino Distributors (NZ) Ltd. All effort has been made to ensure the information contained in this brochure was correct at time of printing. Hino Distributors (NZ) Ltd reserves the right to alter any details of the specifications & equipment without notice. Hino in so far as it is permitted by law to do so, shall not be liable in any way as a result of any reliance placed by any person on anything contained in this brochure. You should therefore check with your authorised Hino dealer at the time of ordering your motor vehicle to ensure that colour, specifications, equipment, design features & options are available for the vehicle you are ordering. Please note that some options may only be available in combination with others. Authorised Hino dealers will on request provide up to date information on all accessories, design features, prices & availability.