

HINO 3000 Series

616 IFS Auto 616 IFS Hybrid 616 IFS Manual



* Illustration may contain items not standard to the model

**ADR 80/03 Model
STD Cab 4 x 2 Cab Chassis**

KEY FEATURES

- Diesel/Electric Hybrid Options
- Manual Transmission Options
- Fully Automatic Transmission Options
- Cruise Control
- Dual SRS Airbags
- Ventilated Disc Brakes Front & Rear
- Anti-lock Brake System (ABS)
- Vehicle Stability Control (VSC)
- ADR 80/03 Emission using Euro 5
- Also meets EEV emission levels

KEY SPECIFICATIONS

- GVM.** 4,495kg, optional 5,500kg
- GCM.** 7,300kg, optional 9,000kg
- Power** 110kW (150 HP)
- Torque.** 420Nm
- Wheelbases** 2,525mm, 2,800mm, 3,400mm
- Max Nominal Body Length** 3,460mm, 3,900mm, 4,860mm



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Engine & Driveline specifications

DIESEL ENGINE

Engine transmission combination	616 IFS Auto & Manual	616 IFS Hybrid
Engine model	N04C US	N04C UR
Max output (ISO Net) @ 2,500 RPM	110kW/150 HP	
Max torque (ISO Net) @ 1,400 RPM	420Nm/42.8 kgf/m	
Maximum engine speed	3,100 RPM	
Type	Diesel, four cycle, four-cylinder in line, overhead valve, water cooled	
Combustion system	Direct injection type	
Bore & stroke	104 x 118mm	
Piston displacement	4.009 litres	
Fuel injection system	Electronic control, common rail type	
Air intake system	Turbo-intercooled, stack-type air intake	
Air cleaner	Paper element	
Fan clutch	Equipped	
Exhaust system	Catalytic Convertor with Diesel Particulate Active Reduction System (DPR)	
Exhaust outlet	Horizontal	
Emission control system	EGR & DPR meeting ADR 80/03 using Euro 5 Also meets EEV emission levels	

HYBRID DRIVE SYSTEM

Motor type	AC Synchronous motor
Rated voltage	300V
Max output	36kW
Max torque	333Nm
Idle stop	Equipped
Battery type	Nickel-metal hydride
Battery capacity	288V/6.5Ah

CLUTCH

	Hybrid	Manual
Clutch type	Dry single plate, diaphragm type with damper springs	
Facing outside diameter	300mm	325mm
Facing lining area	423 x 2cm ²	483 x 2cm ²
Control	Electronic with transmission	Hydraulic with vacuum booster

TRANSMISSION

	616 IFS Auto	616 IFS Hybrid	616 IFS Manual
Model	A860E	M550 ProShift 5	M550
Description	Full Automatic	Automated Manual	Manual
Number of forward gears	6	5	5
Type	Double Overdrive	Single Overdrive	Single Overdrive

BRAKES

Service brakes	Hydraulic system with ventilated disc brakes front and rear
Control	Vacuum servo with hydraulic assist & dual circuits
Front disc diameter	296mm
Rear disc diameter	281mm
Anti-lock system (ABS)	Equipped
Vehicle Stability Control (VSC)	Equipped
Traction Control (TRC)	Equipped
Easy Start system (ES)	Equipped (except auto)
Exhaust brake	Electric-vacuum actuator with valve in exhaust pipe
Park brake	Drum on the rear of transmission

PERFORMANCE & GEAR RATIOS

Models	616 IFS Auto	616 IFS Hybrid	616 IFS Manual
Engine RPM @ 100km/h	2,250	2,420	2,600
Maximum speed (km/h)	139	128	120
Gradeability tan θ % @ GVM	60	48.4	52.7
Final drive ratio	4.625:1	4.333:1	4.625:1
Transmission Gear Ratios	1st	3.743	4.981
	2nd	2.003	2.911
	3rd	1.343	1.556
	4th	1.000	1.000
	5th	0.773	0.738
	6th	0.634	
Rev	3.697	4.625	4.625
Torque convertor ratio	1.95:1		

AXLE, SUSPENSION & LOAD LIMITS

FRONT	Front Axle Model & Type	Independent Front Suspension	
	Suspension	Coil	
	Spring Rate	9.9kgf/mm	
	Axle Limit (including suspension) (kg)	2,600	
REAR	Tyre Limit (kg)	2,180	
	Rear Axle Model & Type	SH12, fully floating, single reduction, single speed by Hypoid gears	
	Suspension	Main & Aux Tapered leaf with shock absorber & stabiliser	
	Spring	Main	Auxiliary
	Dimensions (L & W)	1,300 x 70mm	900 x 70mm
	Spring Rates	18kgf/mm	26kgf/mm
	Number of Leafs	2	2
	Axle Limit (including suspension) (kg)	4,400	
Tyre Limit (kg)	4,120		

WHEEL & TYRES

Wheel type	5-stud disc wheel
Wheel & rim size	185/85R16 111/109 & 16x5.5K-113mm
Number of tyres	Seven including spare
Spare tyre carrier	Equipped

ELECTRICAL (CAB & CHASSIS)

Type	24 volt, negative earth
Batteries	12V x 2, series connected
Charging (80 amp)	Alternator with built in rectifier (Auto & Manual) Supplied by Hybrid System (Hybrid)
Starter	24V, 4.5kW starter motor (Auto & Manual) Supplied by Hybrid System (Hybrid)



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Cab equipment & Instrumentation

CHASSIS FRAME

Wheelbase	Auto & Hybrid	Manual
Type	Ladder-shaped channel section side rails	
Chassis width at rear	700mm	
Main section in mm (depth x flange x thickness)	177.8 x 60 x 4.9mm	180.0 x 65 x 6.0mm
Tensile strength	440N/mm ²	
Tow hook (front & rear)	Equipped	
Front bumper	Painted in cab colour	

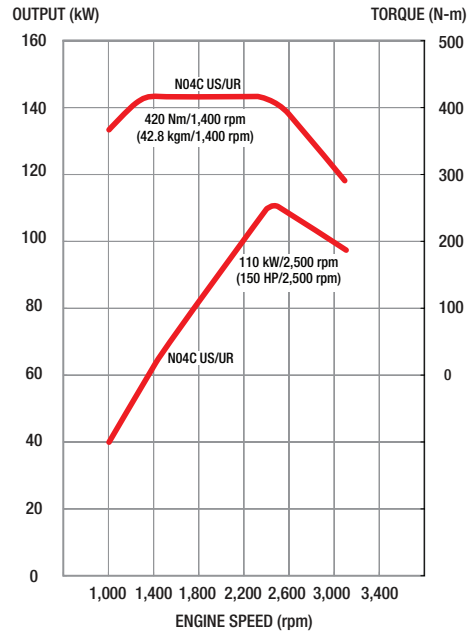
CAB EXTERIOR

Type	Forward control, all steel welded construction, torsion-bar tilt mechanism, fully trimmed
Windscreen wipers	Electric, dual wipers, intermittent and 2-speed
Outside rear mirrors	Remote control & heated
Radiator grille	Painted same colour as cabin
Headlamp	HID with washer & fog lamp (Hybrid) Halogen & fog lamp (Auto & Manual)

CAB INTERIOR

Steering	Telescopic tilt column with integral power steering
Windscreen glass	Laminated glass
Seating capacity	Three
Driver's seat	2-way adjustable, urethane foam pads, high-back, lumbar support
Assistant's seat	Fixed bench, urethane foam pads, high-back seat
Seat cover	Fabric cover
Seat belts	
Driver's seat	3-point type with ELR and pre-tensioner
Assistant's seat	3-point type with ELR and pre-tensioner
Centre passenger's seat	2-point type
Sun visors	For driver and passenger
Ventilator	Forced type by electric blower
Inside rear mirror	One, flat type
Cigarette lighter (24 volt)	Equipped
Audio	DAB+AM/FM radio with CD&DVD player & Bluetooth
Heater and defroster	Equipped
Air conditioner	Equipped
Remote door locking	Equipped
Immobiliser	Equipped
Power windows	Equipped
SRS airbag	Equipped for driver and left side passenger
Drivers foot rest	Equipped (Auto models only)
Seat back console	Equipped (centre)
Overhead consoles	For driver and assistant
Cup holder	Equipped
Cruise control	Equipped

POWER & TORQUE CHART (ISO Net) N04C US/UR



INSTRUMENTS

- Meters and gauges**
 - km-kg system
 - Engine tachometer
 - Hybrid battery status (hybrid only)
- Warning, pilot lamps and buzzers**
 - Turning signal & hazard indicator lamp
 - Exhaust brake indicator lamp
 - Engine oil pressure warning lamp
 - Battery charge warning lamp
 - High beam indicator lamp
 - Parking brake indicator lamp
 - Engine malfunction indicator lamp
 - Fuel level warning lamp
 - Fuel filter water accumulating level warning lamp
 - Brake fluid level warning lamp
 - Back-up warning buzzer
 - Cab-tilt warning lamp
 - ABS system failure warning lamp
 - SRS airbag system failure warning lamp
 - Easy Start indicator lamp (except auto)
 - Cruise Control
 - Hybrid system lamp (hybrid only)
- Switches**
 - Lighting switch
 - Wiper and washer switch
 - Exhaust brake switch
 - Easy Start switch (except auto)
 - Easy Start release timing adjuster switch (except auto)
 - Cruise Control
 - Traction Control OFF
- Multi Information Display**
 - Fuel gauge
 - Coolant temperature gauge
 - DPR accumulation gauge
 - Odometer
 - 2 trip meters
 - Fuel consumption
 - Current
 - Average
- Others**
 - One-key starting-stopping
 - Horn button
 - Remote door locking

STEERING

Type	Telescopic and tilt steering column with locking device. Rack & pinion with integral power steering.
Steering angle	Inside: 39° Outside: 29°

GENUINE ACCESSORY OPTIONS

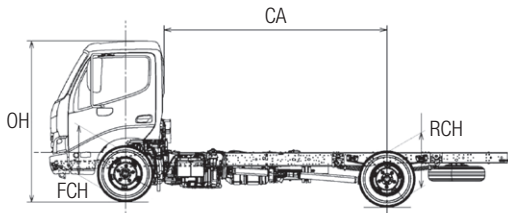
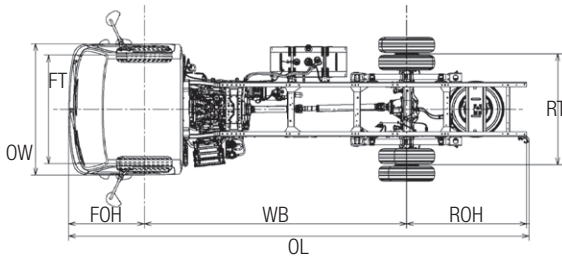
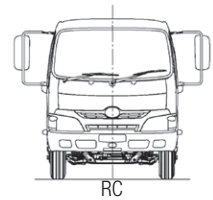
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|------------------------------|--------------------|
| Bull bar | LED driving lights |
| Chrome wheel covers | Stoneguard |
| GPS sat nav | Sunvisor |
| Rear vision camera (up to 3) | |
- Please check with your dealer for price, availability & fitment for these options**



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300 Series

Dimensions



DIMENSIONS – mm / Capacities

Models 300	616 IFS Auto		616 IFS Hybrid		616 IFS Manual	
	Short	Medium	Short	Medium	Short	Medium
Product Code	XZU605R-HKTMSQ3	XZU655R-HKTMSQ3	XKU645R-HKUMSQ3	XKU655R-HKUMSQ3	XZU605R-HKMMSQ3	XZU655R-HKMMSQ3
Nominal Body Length (WBx.6)+CA-80)	3,460	4,860	3,900	4,860	3,460	4,860
Wheelbase (WB)	2,525	3,400	2,800	3,400	2,525	3,400
Overall Length (OL)	4,710	5,965	5,185	5,965	4,710	5,965
Overall Width (OW) (rear tyre)	1,845	1,845	1,845	1,845	1,845	1,845
Overall Height (OH)	2,095	2,095	2,090	2,085	2,100	2,095
Cab to Rear Axle Centre (CA)	2,025	2,900	2,300	2,900	2,025	2,900
Front Overhang (FOH)	980	980	980	980	980	980
Rear Overhang (ROH)	1,135	1,555	1,375	1,555	1,135	1,555
Front Chassis Height (FCH)	655	655	655	655	655	655
Rear Chassis Height (RCH)	695	695	695	695	695	695
Road Clearance (RC)	170	170	170	170	170	170
Front Track (FT)	1,400	1,400	1,400	1,400	1,400	1,400
Rear Track (RT)	1,435	1,435	1,435	1,435	1,435	1,435
Turning Circle Kerb to Kerb	9,600	12,400	10,400	12,400	9,600	12,400
Wall to Wall	11,000	13,800	11,800	13,800	11,000	13,800
Locking Fuel Tank Capacity (Lts)	80	100	70	100	80	100
Indicative chassis mass – kg (standard tools, 10 litres of fuel, spare tyre and subject to a +/- 3% tolerance)						
Total	2,015	2,075	2,180	2,235	1,970	2,025
Front	1,395	1,440	1,490	1,530	1,365	1,410
Rear	620	630	690	705	605	615
GVM STD	4,495	4,495	4,495	4,495	4,495	4,495
GVM Opt	5,500	5,500	5,500	5,500	5,500	5,500
GCM STD	7,300	7,300	7,995	7,995	7,995	7,995
GCM Opt	7,300	7,300	9,000	9,000	9,000	9,000

Drawings are for reference only to the table. For specific chassis layouts please refer to Body Mounting Manual drawings.

WARRANTY

New vehicle warranty period

Light Duty Model	Axle configuration	Standard warranty (whichever comes first)	Cab corrosion perforation	Hybrid Nickel metal Hydride Battery (whichever comes first)
300 616 IFS	4 x 2	3 years or 100,000km	36 months	5 years or 160,000km

Battery warranty – 12 months from date of delivery

Genuine parts or accessories warranty – 3 years unlimited kilometres when fitted by an authorised Hino dealer *

* For conditions, refer to the Hino Parts & Service warranty brochure



DISCLAIMER

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