

NEW

300
SERIES

616 Hybrid IFS



ADR 80/03 Model

Standard Cab 4 x 2 Cab Chassis

* Illustration may contain items not standard to the model

KEY FEATURES

- Dual SRS Airbags
- Easy Start – Take Off Assist
- Disc Brakes
 - Front & Rear
 - ABS, VSC & TRC – all STD
- Energy Absorbing Steering Wheel
- HID Headlamps with washers
- 5-Speed Automated Manual Transmission (AMT)
- ADR 80/03 Emission using EURO 5
- Also meets EEV emission levels

KEY SPECIFICATIONS

GVM.	. . . . .	.4495kg, optional 5500kg
GCM.	. . . . .	.7795kg, optional 9000kg
Engine.	. . . . .	.4.0-litre, Common Rail, Direct Injection, Turbocharged and Intercooled
Power	. . . . .	110kW @ 2500 RPM (ISO NET)
Torque.	. . . . .	420Nm @ 1400 RPM (ISO NET)
Wheelbases	. . . . .	Short2800mm Medium3400mm
Nominal Max Body length	. . . . .	Short3900mm Medium4860mm





616 Hybrid IFS

Engine & Driveline specifications

DIESEL ENGINE

Engine	Hino N04C UR
Max output (ISO Net)	110kW (150 PS) at 2500 RPM
Max torque (ISO Net)	420Nm (42.8 kgf/m) at 1400 RPM
Maximum engine speed	3100 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 Converter 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

Clutch type	Dry single plate, diaphragm type with damper springs
Facing outside diameter	300mm
Facing lining area	423 x 2cm ²
Control	Electronic with transmission

TRANSMISSION

Automated Manual	M550
Type	Five-speed overdrive AMT

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	Equipped
Traction Control	Equipped
Easy Start system	Equipped
Exhaust brake	Electric-vacuum actuator with valve in exhaust pipe
Park brake	Rear of transmission

PERFORMANCE & GEAR RATIOS

Engine RPM @ 100km/h	2420
Maximum speed (km/h)	128
Gradeability tan θ % @ GVM	48.4
Final drive ratio	4.333:1

M550

1st . . . . .	.4.981	4th . . . . .	.1.000
2nd . . . . .	.2.911	5th . . . . .	.0.738
3rd . . . . .	.1.556	Rev. . . . .	.4.625

AXLE LOAD & TYRE LOAD LIMITS

Front axle	2400kg
Tyres	2180kg
Rear axle	4400kg
Tyres	4120kg
Front axle type	Independent coil
Rear axle type	SH12 full-floating, single reduction, single speed by Hypoid gears

SUSPENSION

Front suspension

Independent.	Double wishbone independent with coil springs, shock absorbers & stabiliser
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Rear suspension

Leaf	Semi-elliptic main and auxiliary tapered leafsprings with silencers and shock absorbers
Spring dimensions, span & width	1310mm x 70mm
Auxiliary springs	900mm x 70mm

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 (24 VOLT SYSTEM)

Type	24 volt, negative earth
Batteries	12V x 2, series connected
Recharge . . . . .	.80 Amp supplied by Hybrid System
Starter capacity . . . . .	.Supplied by Hybrid System



616 Hybrid IFS

Cab equipment & Instrumentation

CHASSIS FRAME

Type	Ladder-shaped channel section side rails
Chassis width at rear	700mm
Max. section (depth x flange x thickness)	177.8 x 60 x 4.9mm
Tensile strength	440N/mm ²
Towing hooks.	Equipped at front and rear
Front bumper.	Painted to cabin colour

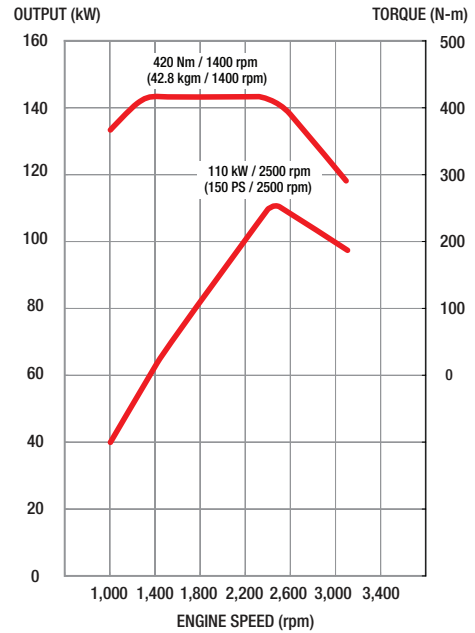
CAB EXTERIOR

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
Lamps	HID headlamps with washer, fog lamps

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 seat
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
Seat back console	Equipped (centre)
Overhead consoles.	For driver and assistant
Cup holder.	Equipped

POWER & TORQUE CHART (ISO Net) N04C UR



INSTRUMENTS

- | | |
|---|---|
| 1. Meters and gauges | AMT system lamp |
| km-kg system | |
| Engine tachometer | 3. Switches |
| Hybrid battery status | Lighting switch |
| 2. Warning, pilot lamps and buzzers | Wiper and washer switch |
| Turning signal & hazard indicator lamp | Exhaust brake switch |
| Exhaust brake indicator lamp | Easy Start switch |
| Engine oil pressure warning lamp | Easy Start release timing adjuster switch |
| Battery charge warning lamp | Traction Control OFF |
| High beam indicator lamp | 4. Multi Information Display |
| Parking brake indicator lamp | Fuel gauge |
| Engine malfunction indicator lamp | Coolant temperature gauge |
| Fuel level warning lamp | DPR accumulation gauge |
| Fuel filter water accumulating level warning lamp | Odometer |
| Brake fluid level warning lamp | 2 trip meters |
| Back-up warning buzzer | Fuel consumption |
| Cab-tilt warning lamp | - Current |
| ABS system failure warning lamp | - Average |
| SRS airbag system failure warning lamp | 5. Others |
| Easy Start indicator lamp | One-key starting-stopping |
| Hybrid system lamp | Horn button |
| | Remote door locking |

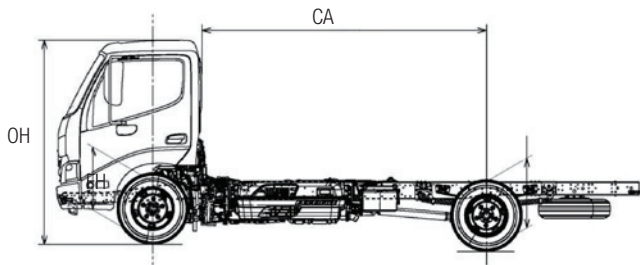
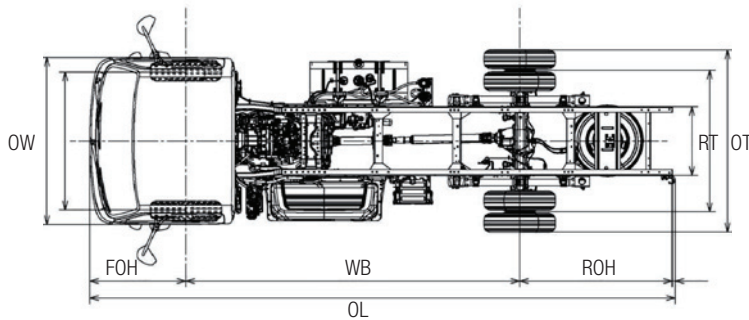
STEERING

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



616 Hybrid IFS

Dimensions



DIMENSIONS – mm / Capacities

Model	616 Short Hybrid IFS	616 Medium Hybrid IFS
Product code	XKU645R- HKUMSQ3	XKU655R- HKUMSQ3
Wheelbase (WB)	2800	3400
Nominal Max Body Length	3900	4860
Overall tyre width (OT)	1845	1845
Overall length (OL)	5185	5965
Overall width (OW) CAB	1695	1695
Overall height (OH)	2090	2085
Front track	1400	1400
Rear track	1435	1435
Cab to axle centre (CA)	2300	2900
Front overhang (FOH)	980	980
Rear overhang (ROH)	1375	1555
Front chassis height	655	655
Rear chassis height	695	695
Road clearance	170	170
Turning circle - m (kerb-to-kerb)	10.4	12.4
Turning circle - m (wall-to-wall)	11.8	13.8
Fuel tank – lt.	70	100
Indicative chassis mass – kg (standard tools, 10 litres of fuel, without spare tyre)		
Total	2180	2235
Front	1490	1530
Rear	690	705
GVM*	5500	5500
GCM*	9000	9000

*Std GVM = 4495 OPT 5500; Std GCM = 7995 OPT 9000

GENUINE ACCESSORY OPTIONS

- | | |
|------------------------------|-------------|
| Bull bar | Roof scoop |
| Chrome wheel covers | Side skirts |
| GPS sat nav | Stoneguard |
| Rear vision camera (up to 3) | Sunvisor |

Please check with your dealer for price, availability & fitment for these options

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 Hybrid 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

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Date of issue - 01/10/11 616 Hybrid IFS v3.1

