



# 500

# FD 1024



**4 x 2 Cab Chassis**

## KEY FEATURES

- ABS Brakes
- Easy Start – Take-off Assist
- Driver's Airbag
- Heated & Electric Rear View Mirrors
- Front Stabiliser Bar

## KEY SPECIFICATIONS

- GVM** . . . . . 10,400kg
- GCM** . . . . . 16,000kg
- Power** . . . . . 171.5kW (235 PS) @ 2500rpm
- Torque** . . . . . 686Nm @ 1500rpm
- Transmission** . . . . . Six-speed synchromesh
- Wheelbase** . . . . . 4850mm





# FD 1024

FD8JLKA-HAN Spring  
FD8JLKG-HAN Air

## Engine & Driveline specifications

### ENGINE

Model . . . . . HINO J08E TE  
 Max. output (ISO NET) . . . . . 168kW (228 PS) at 2500rpm  
 (JIS GROSS) . . . . . 171.5kW (235 PS) at 2500rpm  
 Max. torque (ISO NET) . . . . . 686Nm (70kg/m) at 1500rpm  
 (JIS GROSS) . . . . . 686Nm (70kg/m) at 1500rpm  
 Max. engine speed . . . . . 2550rpm  
 Engine compliance . . . . . US04 Compliant  
 Type . . . . . Diesel, turbocharged & intercooled, six-cylinder  
 in-line, overhead camshaft & water-cooled  
 Combustion system . . . . . Direct injection with EGR  
 Bore & stroke . . . . . 112 x 130mm  
 Piston displacement . . . . . 7.684L  
 Compression ratio . . . . . 18.5:1  
 Engine oil capacity . . . . . 13.5L  
 Coolant capacity . . . . . 21.0L  
 Fuel injection pump . . . . . Electronic control common rail type  
 Air cleaner . . . . . Dual paper elements  
 Air compressor type . . . . . Single cylinder, water-cooled  
 Bore & stroke 70 x 40mm  
 Fan clutch . . . . . Equipped  
 Exhaust . . . . . Horizontal outlet

### CLUTCH

Model . . . . . CS-350 series  
 Clutch disc assembly . . . . . Dry single plate with damper springs  
 Facing material . . . . . Semi Mold  
 Facing outside diameter . . . . . 350mm  
 Control . . . . . Hydraulic with air booster

### TRANSMISSION & GEAR RATIOS

Model . . . . . LJ06S  
 Type . . . . . Six-forward & one reverse speeds, overdrive,  
 synchromesh on 2nd to 6th  
 Control . . . . . Mechanical with power shift

1st . . . . .	.6.893	5th . . . . .	.1.000
2nd . . . . .	.4.274	6th . . . . .	.0.770
3rd . . . . .	.2.607	Rev. . . . .	.6.453
4th . . . . .	.1.564		

### PERFORMANCE

Calculations based on 10.4 ton GVM, 235/75 17.5 tyre  
 Max theoretical speed (km/h) . . . . . 112 (Spring) . . . . . 104 (Air)  
 Gradeability tan  $\theta$ (%) @ GVM . . . . . 53.6 (Spring) . . . . . 58.6 (Air)  
 Speed Limited . . . . . Optional

### BRAKES

Type . . . . . Hydraulic system with two leading shoes for front  
 and rear acting on all wheels with Auto-adjuster  
 Control . . . . . Air over hydraulic, dual circuits  
 Drum diameter x lining  
 Width . . . . . Front: 320 x 110mm  
 Rear: 320 x 145mm  
 Air dryer . . . . . Equipped  
 ABS . . . . . Equipped  
 Brake auto-shoe adjuster . . . . . Equipped  
 Parking brake . . . . . Spring brake, acting on rear wheel  
 Exhaust brake . . . . . Electric-pneumatic with valve in exhaust pipe

### AXLE SPECIFICATIONS

Front axle . . . . . 3600kg  
 Rear axle . . . . . 7000kg  
 Front axle type . . . . . LF366 series I-Beam, Reversed Elliot  
 Rear axle type . . . . . SH13 full-floating, single reduction,  
 single-speed hypoid  
 Rear axle gear ratio . . . . . 4.333:1

### SUSPENSION

**Front suspension** Type . . . . . Semi-elliptic tapered leaf springs with  
 shock absorbers  
 Size . . . . . 1300 span x 70mm width  
**Rear suspension - Spring** . . . . . Semi-elliptic main & auxiliary leaf springs  
 Main spring . . . . . 1300 span x 70mm width  
 Auxiliary springs . . . . . 900 span x 70mm width  
**Rear suspension - Air** . . . . . Hendrickson HAS airbag suspension  
 with shock absorbers

### WHEELS & TYRES

Wheel type . . . . . Six-stud disc wheel (JIS type) PCD 222.25  
 Rim size . . . . . 6.75 x 17.5 – offset 135mm  
 Tyre size . . . . . 235/75 x 17.5 130/128  
 Number of tyres . . . . . Seven (including one spare)  
 Spare tyre carrier . . . . . Equipped

### FUEL TANK

Capacity . . . . . 200L  
 Fuel pre-filter & sedimentor . . . . . Equipped  
 Fuel tank cap key . . . . . Equipped



# FD 1024

## Cab, Instrumentation & Chassis

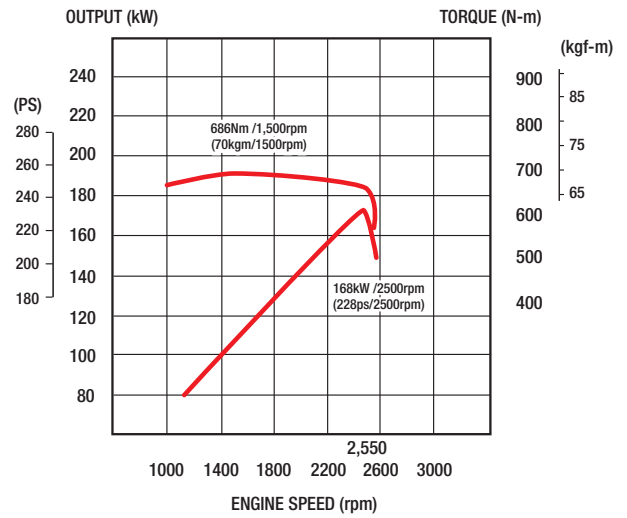
### CAB DETAILS

Type . . . . .	Forward control, all steel construction with torsion bar tilt mechanism
Seating capacity . . . . .	Three
Driver's seat . . . . .	Urethane foam pads, high-back, 4-way adjustable seat with fabric cover and air suspension
Side passenger's seat . . . . .	Urethane foam pads, high-back and reclining seat with fabric cover and under-tray
Centre passenger's seat . . . . .	Urethane foam pads & foldaway type with seat back tray, fabric cover
Seat belt . . . . .	3-point type on driver's and side passenger's seat, 2-point type on centre passenger's seat
Sun visor and over-head console . . . . .	For driver & passenger sides
Windshield wipers . . . . .	Electric, dual, intermittent and 2-speed
Ventilator . . . . .	Forced type by electric blower
Rear view mirrors . . . . .	Inside: One, flat type Out side: Heated, Two flat type, two convex spotters
Cigarette lighter (24V) . . . . .	Equipped
Floor mat . . . . .	Vinyl type
Front air spoiler . . . . .	Equipped
Central locking . . . . .	Equipped
Heater and defroster . . . . .	Standard
Air conditioner . . . . .	Equipped
Trim . . . . .	Full trim type (side, roof and back)
Cab pockets . . . . .	Door & A Seat
Power windows . . . . .	Equipped
Rest area . . . . .	Equipped
Car audio . . . . .	AM/FM radio with CD player
Speakers . . . . .	Driver and passenger sides
Foot rest . . . . .	Equipped
Easy Start . . . . .	Equipped
Cup holder . . . . .	Equipped

### ELECTRICAL

Type . . . . .	24V, negative earth
Batteries . . . . .	2 x 12V, series-connection. Capacity 120Ah at 20-hour rate
Alternator type . . . . .	With built-in rectifier & voltage regulator
Capacity . . . . .	24V, 60A
Starter type . . . . .	24V, 4.5W
Headlamps . . . . .	Semi-sealed beam, halogen type 2-head lamps
High/low beam . . . . .	Equipped
Fluorescent reading lamp . . . . .	Equipped
Electric horn . . . . .	Equipped

### POWER & TORQUE CHART (ISO Net)



### INSTRUMENTS

- Meters & gauges**
  - Speedometer with trip meter
  - Odometer
  - Tachometer
  - Fuel gauge
  - Coolant temperature gauge
  - Air pressure gauge
- Switches**
  - One-key starting-stopping
  - Lighting
  - Directional indicator, dimmer and passing
  - Wiper and washer
  - Hazard lamp
  - Exhaust brake
  - Map lamp
  - Fog lamp
  - Easy Start
- Warning, pilot lamps & buzzers**
  - Oil pressure warning lamp & buzzer
  - Air pressure warning lamp & buzzer
  - Engine over-run warning buzzer
  - Coolant level warning lamp & buzzer
  - Brake fluid level warning lamp & buzzer
  - Brake adjustment warning lamp & buzzer
  - High beam indicator lamp
  - Turn signal indicator lamp
  - Parking brake indicator lamp
  - Seat belt warning lamp & buzzer
  - Exhaust brake indicator lamp
  - Engine control system warning lamp
  - Hazard indicator lamp
  - Back-up warning buzzer
- Others**
  - Idle up control knob
  - Horn button
  - 12V electric source (harness type)

### STEERING

Type . . . . .	Telescopic and tilt steering column with locking device. Recirculating ball with Integral Power Steering
Gear ratio . . . . .	18.6:1

### CHASSIS FRAME

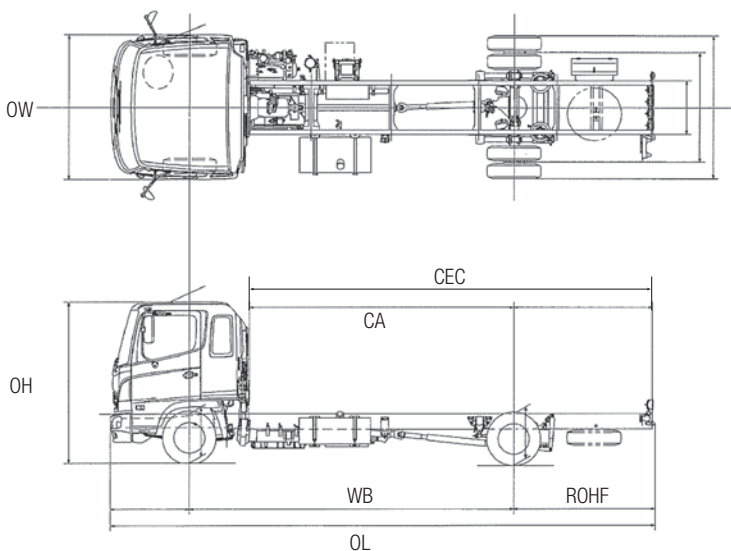
Type . . . . .	Ladder-shaped channel section side rails
Rear chassis width . . . . .	820mm
Max. section (depth x flange x thickness) . . . . .	231.6 x 73 x 6.8mm
Tensile strength . . . . .	540N/mm <sup>2</sup> [55 kgf/mm <sup>2</sup> ]
Hooks . . . . .	Equipped for front and rear



**500**

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## Dimensions



### DIMENSIONS - mm / Capacities

Model Hino FD 1024	Air	Spring
Production code . . . . .	FD8JLKG . . . . .	FD8JLKA
Wheelbase (WB) . . . . .	4850 . . . . .	485
Overall length (OL) . . . . .	8180 . . . . .	8180
Overall width (OW) . . . . .	2175 . . . . .	2175
Overall height (OH) . . . . .	2455 . . . . .	2455
Cab to rear axle centre (CA) . . . . .	3975 . . . . .	3975
Rear overhang (at frame end) (ROHF) . . . . .	2060 . . . . .	2060
Back of Cab to End of Chassis (CEC) . . . . .	6035 . . . . .	6035
Front chassis height (HF) . . . . .	780 . . . . .	780
Rear chassis height (HR) . . . . .	880 . . . . .	880
Road clearance (at diff. case) (RC) . . . . .	220 . . . . .	220
Front track (FT) . . . . .	1770 . . . . .	1770
Rear track (RT) . . . . .	1660 . . . . .	1660
Turning circle kerb to kerb . . . . .	15,000 . . . . .	15,000
Turning circle wall to wall . . . . .	16,400 . . . . .	16,400
<b>Chassis mass – kg (with 50 litres of fuel, all seats occupied, standard tools)</b>		
Total . . . . .	3355 . . . . .	3355
Front . . . . .	2205 . . . . .	2205
Rear . . . . .	1150 . . . . .	1150
GVM . . . . .	10,400 . . . . .	10,400
GCM . . . . .	16,000 . . . . .	16,000

### WARRANTY

New vehicle warranty period - Refer to Hino Truck Warranty for detailed information.

Medium Duty Model	<b>500 FD 1024</b>
Cab & Chassis Components	* 24 months or 100,000km
Engine & Powerlines	* 36 months or 150,000km

\* whichever occurs first.



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