

# HINO

# 500 Series

# FG 1628



\* Illustration may contain item not standard to the model

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

## KEY FEATURES

- Cruise Control (Manual Models only)
- Anti-lock Brake System (ABS)
- Easy Start (ES) – Take-off Assist (Manual Models only)
- Automatic Transmission Variant
- Front Axle Stabiliser
- Drivers SRS Airbag
- Heated & Electrically Operated External Mirrors
- Front Underrun Protection (FUP) (ADR 84/00 Complied)
- ISRI 6860/870 Driver seat with integrated Safety Belt

## KEY SPECIFICATIONS

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>GVM</b> . . . . .                 | 15,500kg                       |
| <b>GCM</b> . . . . .                 | 32,000kg                       |
| <b>Power</b> . . . . .               | 206kW                          |
| <b>Torque</b> . . . . .              | 824Nm                          |
| <b>Transmission</b> . . . . .        | Five-speed automatic           |
|                                      | Six-speed manual               |
|                                      | Nine-speed manual              |
| <b>Wheelbase</b> . . . . .           | 3780mm, 4280mm, 5530mm, 6220mm |
| <b>Nominal Body Length</b> . . . . . | 5110mm, 5900mm, 7900mm, 9010mm |

A Toyota Group Company

 **HINO**  
A BETTER CLASS OF TRUCK



# FG 1628

## Engine & Driveline specifications

### ENGINE

|                                   |  |
|-----------------------------------|--|
| Model . . . . .                   | Hino J08E-VD   |
| Max. output (ISO Net) . . . . .   | 206kW (280 HP) at 2400 RPM   |
| Max. output (JIS GROSS) . . . . . | 210kW (285 HP) at 2400 RPM   |
| Max. torque (ISO Net) . . . . .   | 824Nm (84kgf/m) at 1500 RPM  |
| Max. torque (JIS GROSS) . . . . . | 843Nm (86kgf/m) at 1500 RPM  |
| Max. engine speed . . . . .       | 2500 RPM   |
| Engine compliance . . . . .       | ADR 80/03  |
| 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 . . . . .       | 17:1   |
| Engine oil capacity . . . . .     | 12.7L  |
| Coolant capacity . . . . .        | 24.5L  |
| Fuel injection pump . . . . .     | Electronic control common-rail type  |
| Intake system . . . . .           | Stack-type air intake  |
| Air cleaner . . . . .             | Dual paper elements  |
| Air compressor . . . . .          | Single cylinder, water-cooled  |
| Bore & stroke . . . . .           | 85 x 40mm  |
| Fan clutch . . . . .              | Equipped   |
| Exhaust . . . . .                 | Horizontal outlet  |
| Emission Control System . . . . . | EGR & DPR meeting ADR 80/03 using EURO V Std   |

### CLUTCH (Manual Models only)

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Model . . . . .                   | CS-380 series                        |
| Type . . . . .                    | Dry single plate with damper springs |
| Facing material . . . . .         | Moulded (non-asbestos)               |
| Facing outside diameter . . . . . | 380mm                                |
| Control . . . . .                 | Hydraulic with air booster           |

### TRANSMISSION & GEAR RATIOS

| Model                    | Automatic      |             | Manual      |  |
|--------------------------|----------------|-------------|-------------|--|
|                          | Allison 3000   | Hino MF06S  | Eaton 11109 |  |
| Description              | Full automatic | Synchromesh | Synchromesh |  |
| Number of forward gears  | 5              | 6           | 9           |  |
| 1st                      | 3.487          | 8.189       | 12.637      |  |
| 2nd                      | 1.864          | 5.340       | 8.806       |  |
| 3rd                      | 1.409          | 3.076       | 6.550       |  |
| 4th                      | 1.000          | 1.936       | 4.768       |  |
| 5th                      | 0.750          | 1.341       | 3.548       |  |
| 6th                      |                | 1.000       | 2.481       |  |
| 7th                      |                |             | 1.845       |  |
| 8th                      |                |             | 1.343       |  |
| 9th                      |                |             | 1.000       |  |
| Rev                      | 5.027          | 7.142       | 13.210      |  |
| Torque Converter & Ratio | TC 415   2.35  | N/A         |             |  |
| Rear Axle Ratio          | 5.428          |             | 4.300       |  |

### PERFORMANCE

| Calculations based on 15.5 ton GVM with 11R22.5 drive tyres |              |                |                |               |
|---|--------------|----------------|----------------|---------------|
| Wheel base variant  | Short        | Medium         | XL & XXL       | Med, XL & XXL |
| Transmission  | 5 speed auto | 6 speed manual | 9 speed manual |               |
| Rear axle ratio   | 5.428        | 4.625          | 4.300          | 4.300         |
| Engine RPM @ 100km/h  | 2150         | 2430           | 2260           | 2260          |
| Max theoretical speed (km/h)                                | 116          | 103            | 110            | 110           |
| Gradeability tan $\theta$ (%) @ GVM                         | 47.5         | 39.1           | 35.9           | 60.0          |
| Speed limited to (km/h)                                     | 100          |                |                |               |

### BRAKES

|  |  |
|--|--|
| Type . . . . .                         | Full air, dual circuit, "S" cam, leading and trailing shoes for front and rear |
| Drum diameter x lining width . . . . . | Front: 406.4 x 127mm<br>Rear: 406.4 x 203mm                                    |
| Air dryer . . . . .                    | Equipped   |
| Anti-lock Brake System (ABS) . . . . . | Equipped   |
| Parking brake . . . . .                | Spring brake, acting on rear wheels  |
| Exhaust brake . . . . .                | Electric-pneumatic with valve in exhaust pipe                                  |
| Easy Start (ES) . . . . .              | Equipped (Manual Models only)  |

### AXLE, SUSPENSION & LOAD LIMITS

| Front Axle Model |                                    | MF 761  |                         |
|------------------|------------------------------------|---|-------------------------|
| FRONT            | Type                               | Reverse Elliot I-Beam   |                         |
|                  | Suspension                         | Tapered leaf springs with shock absorbers & stabiliser              |                         |
|                  | Spring Dimensions                  | 1470 x 80mm   |                         |
|                  | Spring Rate                        | 29.7 kgf/mm   |                         |
|                  | Axle Limit (including suspension)  | 6500 kg   |                         |
|                  | Tyre Limit                         | 7100 kg   |                         |
| Rear Axle Model  |                                    | SH16 (auto and 6 speed)<br>SH17 (9 speed)                           |                         |
| REAR             | Type                               | Fully floating, single reduction, single speed by Hypoid gears      |                         |
|                  | Suspension                         | Steel Suspension<br>Semi-elliptic leaf springs with shock absorbers |                         |
|                  | Spring Dimensions (length x width) | Main<br>1300 x 90mm   | Auxiliary<br>980 x 90mm |
|                  | Spring Rate                        | 56.6 kgf/mm   | 101.7 kgf/mm            |
|                  | Axle Limit (including suspension)  | 10,000 kg   |                         |
|                  | Tyre Limit                         | 12,600 kg   |                         |

### WHEELS & TYRES

|                              |   |
|------------------------------|---|
| Wheel type . . . . .         | 10-stud disc wheel (ISO type) 335 PCD                   |
| Rim size . . . . .           | 8.25 x 22.5 – 165-12mm                                  |
| Tyre size . . . . .          | Front: 295/80R22.5 – 152/148<br>Rear: 11R22.5 – 148/145 |
| Number of tyres . . . . .    | Seven (including one spare tyre)                        |
| Spare tyre carrier . . . . . | Equipped (except for short)                             |

### FUEL TANK

|  |                     |
|--|---------------------|
| Capacity . . . . .                     | 200L                |
| Type . . . . .                         | All steel rectangle |
| Fuel pre-filter & sedimenter . . . . . | Equipped            |
| Fuel tank cap key . . . . .            | Equipped            |

### STEERING

|                          |  |
|--------------------------|--|
| Type . . . . .           | Telescopic and tilt steering column with locking device. Recirculating ball with Integral Power Steering |
| Gear ratio . . . . .     | 20.1:1   |
| Steering angle . . . . . | <b>Inside:</b> 39°–42° <b>Outside:</b> 32°   |



# FG 1628

## Cab, Instrumentation & Chassis

### CAB DETAILS

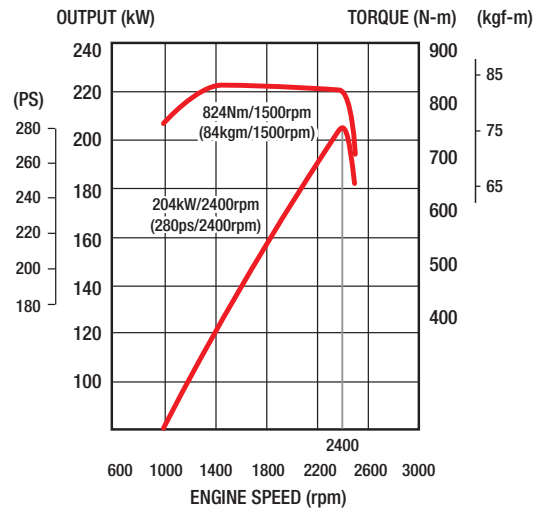
|   |  |
|---|--|
| Type . . . . .                            | Forward control, all-steel construction mounted on coil spring suspension with electro hydraulic tilt mechanism                |
| ECER29 Cab strength. . . . .              | Compliant  |
| Drivers SRS Airbag. . . . .               | Equipped   |
| Seating capacity . . . . .                | Three  |
| Driver's seat . . . . .                   | ISRI 6860/870 with urethane foam pads, high-back, lumbar support, multi adjustable, air suspended, with integrated safety belt |
| Side passenger's seat . . . . .           | Urethane foam pads, high-back & reclining seat with fabric cover, air suspension   |
| Centre passenger's seat. . . . .          | Urethane foam pads & foldaway type with seat back tray, fabric cover   |
| Seat belt . . . . .                       | 3-point type on driver's & side passenger's seat<br>2-point type on centre passenger 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 . . . . .               | External: Electric & heated, flat type, two convex spotters & kerb view  |
| Cigarette lighter 24V . . . . .           | Equipped   |
| Electrical converter. . . . .             | 12V (harness type)   |
| Floor mat . . . . .                       | Vinyl type   |
| Front air spoiler . . . . .               | Equipped   |
| 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   |
| Rest area . . . . .                       | Equipped   |
| Audio . . . . .                           | DAB+ AM/FM radio with CD & DVD player and Bluetooth  |
| Speakers . . . . .                        | Driver & passenger sides   |
| Foot rest . . . . .                       | Equipped   |
| Easy Start . . . . .                      | Equipped   |
| Cup holder . . . . .                      | Equipped   |
| Cruise control . . . . .                  | Equipped (except for auto model)   |

### ELECTRICAL

|                                    |   |
|------------------------------------|---|
| Type . . . . .                     | 24V, negative earth   |
| Batteries . . . . .                | 12V x 2, series connection. Capacity 120Ah at 20-hour rate (65 Ah optional for Auto)* |
| Alternator type . . . . .          | Brushless with built-in rectifier & voltage regulator                                 |
| Capacity . . . . .                 | 24V, 60A (90A for Auto)*  |
| Starter type . . . . .             | 24V, 4.5kW  |
| Headlamps . . . . .                | Halogen type including fog lamps  |
| High/low beam . . . . .            | Equipped  |
| Fluorescent reading lamp . . . . . | Equipped  |
| Electric horn . . . . .            | Equipped  |

\*For Auto 65Ah battery opt 60A Alternator is STD

### POWER & TORQUE CHART (ISO Net) J08E-VD



### INSTRUMENTS

- Meters & gauges**
  - Speedometer
  - Odometer with trip meter
  - Tachometer
  - Fuel gauge
  - Coolant temperature gauge
  - Air pressure gauge
- Switches**
  - One-key starting-stopping
  - Lighting
  - Directional indicator, dimmer & passing
  - Wiper & washer
  - Hazard lamp
  - Exhaust brake
  - Map lamp
  - Fog lamp
  - Easy Start (Manual Models only)
  - Cruise Control (except Auto Model)
  - DPR regeneration
  - Mirror controls
  - PTO (optional)
- Warning, pilot lamps & buzzers**
  - Oil pressure lamp & buzzer
  - Air pressure lamp & buzzer
  - Engine over-run buzzer
  - Coolant level lamp & buzzer
  - Air pressure lamp & buzzer
  - High beam indicator lamp
  - Turn signal indicator lamp
  - Parking brake indicator lamp
  - Exhaust brake indicator lamp
  - Engine control system lamp
  - Hazard indicator lamp
  - Back-up buzzer
  - ABS warning lamp
- Others**
  - Idle up control knob
  - Horn button
  - 12V electric source
- Multi information display**
  - Fuel consumption
  - Service reminders
  - Warnings
  - Faults

### CHASSIS FRAME

| Chassis Frame Dimensions                          | Short Auto                               | Medium | XLong             | XXLong               |
|---|--|--------|-------------------|----------------------|
| Type  | Ladder-shaped channel section side rails |        |                   |                      |
| Chassis width (at rear)                           | 870mm                                    |        |                   |                      |
| Main section (mm)<br>(depth x flange x thickness) | 269 x<br>85 x 7.5                        |        | 270 x<br>85 x 8.0 | 270 x<br>90 x 8.0    |
| Tensile strength                                  | 540N/mm <sup>2</sup>                     |        |                   |                      |
| Inner Section (mm)                                | NA                                       |        |                   | 254 x 74<br>x 3.2    |
| Tensile strength                                  | NA                                       |        |                   | 440N/mm <sup>2</sup> |
| Front Underrun Protection                         | Equipped                                 |        |                   |                      |
| Tow Hook (front and rear)                         | Equipped                                 |        |                   |                      |

### GENUINE ACCESSORY OPTIONS

- |                              |                                    |
|------------------------------|------------------------------------|
| Bull bar                     | LED Driving Lights                 |
| Chrome wheel covers          | Sunvisor                           |
| Sat Nav                      | Timber dash panel                  |
| Rear vision camera (up to 3) | Engine driven PTO 1:0.72 step-down |
| Stoneguard                   | or 1:1.08 step-up                  |

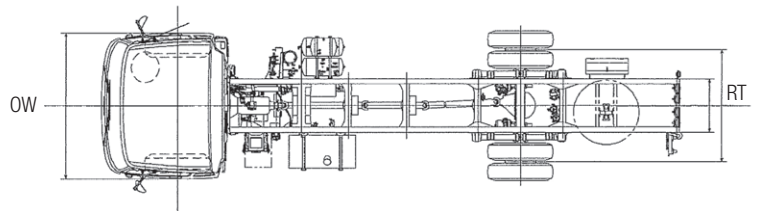
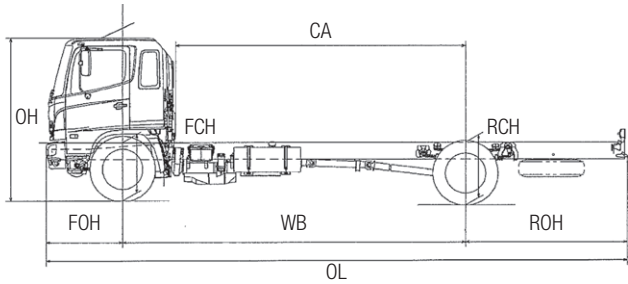
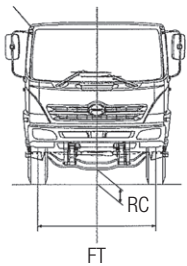
Please check with your dealer for price, availability & fitment for these options



# FG 1628

# 500 Series

## Dimensions



### DIMENSIONS – mm/capacities

| Model Hino FG 1628  | Short       | Medium         | XLong       | XXLong         | Medium      | XLong       | XXLong      |
|---|-------------|----------------|-------------|----------------|-------------|-------------|-------------|
| Transmission Variants   | Auto        | 6 speed manual |             | 9 speed manual |             |             |             |
| Model Code  | FG8JGMB-UHU | FG8JJMB-QHU    | FG8JPMB-QHU | FG8JSMB-QHU    | FG8JJMB-RHU | FG8JPMB-RHU | FG8JSMB-RHU |
| Nominal Body Length (WB x .6) + CA – 80)  | 5110        | 5900           | 7900        | 9010           | 5900        | 7900        | 9010        |
| Wheelbase (WB)  | 3780        | 4280           | 5530        | 6220           | 4280        | 5530        | 6220        |
| Overall Length (OL)   | 6345        | 7470           | 9360        | 10450          | 7470        | 9360        | 10450       |
| Overall Width (OW)  | 2450        |                |             |                |             |             |             |
| Overall Height (OH)   | 2645        |                |             |                |             |             |             |
| Cab to Rear Axle centre (CA)  | 2920        | 3420           | 4670        | 5360           | 3420        | 4670        | 5360        |
| Front Overhang (FOH)  | 1235        |                |             |                |             |             |             |
| Rear Overhang (ROH)   | 1285        | 1910           | 2550        | 2950           | 1910        | 2550        | 2950        |
| Front Chassis Height (FCH)  | 960         |                |             |                |             |             |             |
| Rear Chassis Height (RCH)   | 1025        |                |             |                |             |             |             |
| Road Clearance (RC)   | 250         |                |             |                |             |             |             |
| Front Track (FT)  | 1925        |                |             |                |             |             |             |
| Rear Track (RT)   | 1840        |                |             |                |             |             |             |
| Turning Circle Kerb to Kerb   | 14,000      | 15,200         | 19,800      | 22,000         | 15,200      | 19,800      | 22,000      |
| Wall to Wall  | 14,500      | 17,050         | 21,250      | 23,450         | 17,050      | 21,250      | 23,450      |
| Indicative Chassis Mass – kg (standard tools, 10 litres of fuel and spare tyre and subject to a ± 3% tolerance) |             |                |             |                |             |             |             |
| Total   | 5025        | 5065           | 5230        | 5370           | 5025        | 5190        | 5320        |
| Front   | 3090        | 3070           | 3165        | 3250           | 3020        | 3110        | 3190        |
| Rear  | 1935        | 1995           | 2065        | 2020           | 2005        | 2080        | 2130        |
| GVM   | 15,500      |                |             |                |             |             |             |
| GCM   | 32,000      |                |             |                |             |             |             |

### WARRANTY

New vehicle warranty period

| Light Duty Model | Axle configuration | Standard warranty<br>(whichever comes first) | Cab corrosion perforation |
|------------------|--------------------|--|---------------------------|
| 500 FG 1628      | 4 x 2              | 3 years or 150,000km                         | 36 months                 |

Battery warranty – 12 months from date of delivery

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

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



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