



# 500

## FT 1022 4x4



4 x 4 Cab Chassis

### KEY FEATURES

- Cruise Control
- Selectable 4 x 4 + low range
- Low range ratio . . . . . 2.224:1

### KEY SPECIFICATIONS

- GVM.** . . . . . 10,000kg
- GCM.** . . . . . 14,500kg
- Power** . . . . . 152kW (215Hp) @ 2500rpm
- Torque.** . . . . . 608Nm @ 1500rpm
- Transmission** . . . . . Six-speed synchromesh,  
Hi – Lo speed transfer case
- Wheelbase** . . . . . 3750mm





# FT 1022 4x4

FT8JGKA-HGU

## Engine & Driveline specifications

### ENGINE

Model	HINO J08E UA
Max. output (ISO NET)	152kW (207 PS) at 2500rpm
(JIS GROSS)	158kW (215 PS) at 2500rpm
Max. torque (ISO NET)	608Nm (62kg/m) at 1500rpm
(JIS GROSS)	608Nm (62kg/m) at 1500rpm
Max. engine speed	2550rpm
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
Intake system	Stack-type air intake
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	Cera-metallic
Facing outside diameter	350mm
Control	Hydraulic with air booster

### TRANSFER

Model	MA12C
Type	Two-speed
Low Ratio	2.224:1

### TRANSMISSION & GEAR RATIOS

Model	LX06SR
Type	Six-forward & one reverse speeds, overdrive, synchromesh on 2nd to 6th
Control	Mechanical with power shift

Range Ratio	Low	High	Low	High
1st	13.562	.6.098	5th	2.224 .1.000
2nd	8.580	.3.838	6th	1.692 .0.761
3rd	5.204	.2.340	Rev.	12.614 .5.672
4th	3.162	.1.422		

### PERFORMANCE

Calculations based on 11.0 ton GVM, 9.00R20-14PR tyre

Max speed (km/h)	113
Gradeability tan $\theta$ (%)	60.0

### BRAKES

Type	Hydraulic system with two leading shoes for front and rear acting on all wheels
Control	Air over hydraulic, dual circuits
Drum diameter x lining	
Width	Front: 400 x 120mm Rear: 400 x 130mm
Air dryer	Equipped
Parking brake	Spring brake, acting on rear wheel
Exhaust brake	Electric-pneumatic with valve in exhaust pipe

### AXLE LOAD & TYPE

Front axle	3700kg
Rear axle	7000kg
Front axle type	SS12 series full-floating, single reduction, single-speed by spiral bevel bearings with constant velocity universal joints
Rear axle type	SH13 full-floating, single reduction, single-speed by hypoid gearings with "Nospin" differential lock
Rear axle gear ratio	5.142:1

### SUSPENSION

<b>Front suspension</b> Type	Semi-elliptic tapered leaf springs with shock absorbers
Size	1300 span x 70mm width
<b>Rear suspension</b> Type	Semi-elliptic main & auxiliary leaf springs
Size	Main Spring: 1300 Span x 70mm width Auxiliary Spring: 900mm x 70mm width

### WHEELS & TYRES

Wheel type	Eight-stud disc wheel (JIS type) 285 PCD
Rim size	7.00T x 20 - 152-11
Tyre size	9.00R20 - 14PR
Number of tyres	Seven (including one spare)
Spare tyre carrier	Equipped
Tyre inflator	Equipped

### FUEL TANK

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



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## Cab, Instrumentation & Chassis

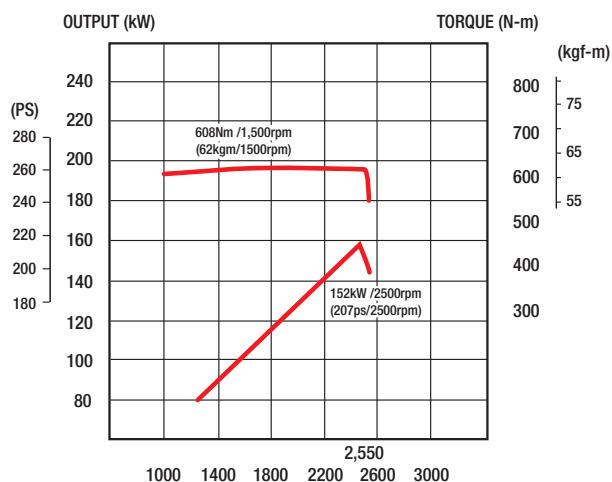
### CAB DETAILS

Type . . . . .	Forward control, all steel construction with Electro Hydraulic Power Tilt
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 Outside: Two flat type, two convex spotters
Cigarette lighter (24V) . . . . .	Equipped
Floor mat . . . . .	Vinyl type
Key Entry . . . . .	Equipped
Heater and defroster . . . . .	Standard
Air conditioner . . . . .	Standard
Trim . . . . .	Full trim type (side, roof and back)
Cab pockets . . . . .	Equipped on both door sides
Power windows . . . . .	Equipped
Car audio . . . . .	AM/FM radio with CD player
Speakers . . . . .	Driver and passenger sides
Foot rest . . . . .	Equipped
Engine control link . . . . .	Equipped
Cup holder. . . . .	Equipped
Cruise Control . . . . .	Equipped

### ELECTRICAL

Type . . . . .	24V, negative earth
Batteries . . . . .	2 x 12V series-connection. Capacity 120Ah at 20-hour rate
Alternator type . . . . .	Brushless with built-in rectifier & voltage regulator
Capacity . . . . .	24V, 90A
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) J08E UA



### 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 & passing
  - Wiper and washer
  - Hazard lamp
  - Exhaust brake
  - Map lamp
  - Fog lamp
- Warning, pilot lamps & buzzers**
  - Engine 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 . . . . .	19.05:1

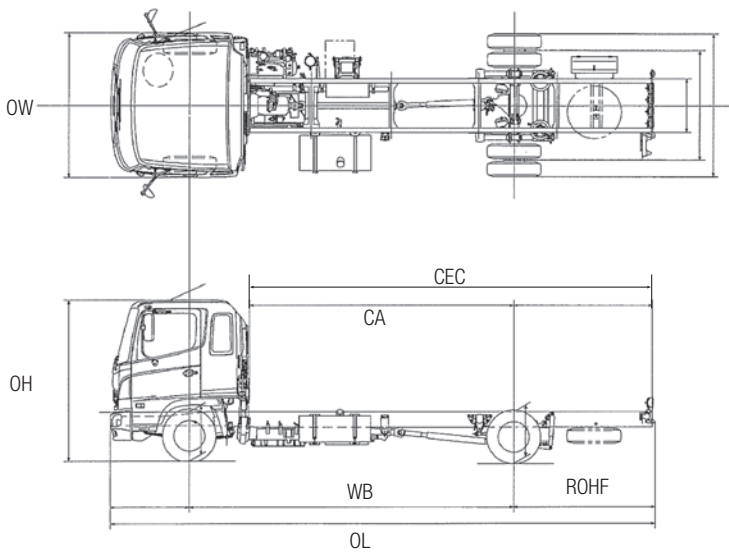
### CHASSIS FRAME

Type . . . . .	Ladder-shaped channel section side rails
Rear chassis width . . . . .	820mm
Max. section (depth x flange x thickness) . . . . .	233 x 78 x 7.5mm
Tensile strength . . . . .	540N/mm <sup>2</sup> {55 kgf/mm <sup>2</sup> }
Hooks . . . . .	Equipped for front and rear
Chassis step . . . . .	Equipped



# 500

## FT 1022 4x4 Dimensions



### DIMENSIONS - mm / Capacities

<b>Model</b>	<b>Hino FT 1022 4x4</b>
Production code	FT8GJKA
Wheelbase (WB)	3750
Overall length (OL)	6645
Overall width (OW)	2355
Overall height (OH)	2760
Cab to rear axle centre (CA)	2850
Rear overhang (at frame end) (ROHF)	1600
Back of Cab to End of Chassis (CEC)	4450
Front chassis height (HF)	1020
Rear chassis height (HR)	1095
Road clearance (at diff. case) (RC)	305
Front track (FT)	1855
Rear track (RT)	1680
Turning circle kerb to kerb	16,200
Turning circle wall to wall	17,650
<b>Chassis mass – kg</b> (with full fuel, all seats occupied, standard tools)	
Total	4200
Front	2705
Rear	1495
GVM	10,000
GCM	14,500

### WARRANTY

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

<b>Medium Duty Model</b>	<b>500 1022 4x4</b>
<b>Cab &amp; Chassis Components</b>	<b>* 24 months or 100,000km</b>
<b>Engine &amp; Powerlines</b>	<b>* 36 months or 150,000km</b>

\* whichever occurs first.



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