

# 500

S E R I E S

# HINO

*driven to perfection*

A TOYOTA GROUP COMPANY

## FM 8J

Boasting increased levels of performance, fuel efficiency, safety, standard equipment and comfort, HINO 500 represents an evolution of technology in the heavy-duty truck market



### KEY FEATURES

- ABS Brakes
- CRDi Engine
- Heavy Duty Bogie Suspension



### KEY SPECIFICATION

- GVW.....25,000kg
- Power.....251PS
- Torque..... 739Nm
- Transmission..... 9 speed

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## FM 8JLKD

# Engine & Driveline Specifications

### ENGINE

Model . . . . . HINO J08E  
Max. output . . . . . 184kw (251PS) at 2500rpm  
Max. torque . . . . . 739 Nm (75.4kgf.m) at 1500rpm  
Max. engine speed . . . . . 2900rpm  
Engine compliance . . . . . EURO 3  
Type . . . . . Diesel, Turbocharged & intercooled  
Six cylinder in-line, overhead camshaft  
& water cooled  
Combustion system. . . . Direct injection  
Bore & stroke . . . . . 112x130mm  
Piston displacement . . . . 7.684L  
Compression ratio . . . . . 18:1  
Engine oil capacity . . . . . 12.7L  
Coolant capacity . . . . . 21L  
Fuel injection pump. . . . Electronic control common-rail type  
Intake system. . . . . Stack type air intake

### TRANSMISSION & GEAR RATIOS

Model . . . . . ZF 9S1110  
Type . . . . . Nine forward and one reverse  
1st . . . . . 12.728  
2nd. . . . . 8.829  
3rd . . . . . 6.281  
4th . . . . . 4.644  
5th . . . . . 3.478  
6th . . . . . 2.538  
7th . . . . . 1.806  
8th . . . . . 1.335  
9th . . . . . 1  
Rev. . . . . 12.040

### CLUTCH

Type . . . . . Dry single plate with damper springs  
Facing outside diameter . . . 380mm  
Facing material . . . . . Mold (Non asbestos)

### BRAKES

Type . . . . . Full air, dual circuit, "S" cam type  
Leading & trailing shoes for front & rear  
ABS. . . . . Equipped  
Parking brake. . . . . Spring brake, acting on FA & FR axles  
Exhaust brake . . . . . Electric-pneumatic

### AXLE LOAD AND TYPE

Axle load limit. . . . . Front axle . . . . . 6000kg  
Rear axle . . . . . 19000kg  
Front axle type. . . . . MF671 series, Reverse Elliot, I-Beam  
Rear axle type . . . . . THD17 full floating single reduction,  
Single speed hypoid, Tandem drive  
With inter axle differential lock  
Rear axle ratio . . . . . 5.857 : 1

### SUSPENSION

Front suspension type . . . . Semi-elliptic leaf springs with shock  
absorbers  
Rear suspension . . . . . Inverted semi-elliptic leaf springs with  
torque rods

### PERFORMANCE

Max speed . . . . . 98km/h  
Gradeability . . . . . 40.3%

### WHEELS & TYRES

Rim size . . . . . 20x7.50  
Tyre size. . . . . 11.00R20-16PR

### FUEL TANK

Capacity . . . . . 200L

# 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 & reclining seat
Seat belt . . . . .	3-point type
Windshield wipers . . . . .	Electric, dual, intermittent & 2 speed
Ventilator . . . . .	Forced type by electric blower
Cigarette lighter 24V . . . . .	Equipped
Floor mat . . . . .	Vinyl type
Air conditioner . . . . .	Standard
Trim. . . . .	Full
Cab pockets . . . . .	Equipped on both door sides
Car audio. . . . .	.AM/FM radio with CD player
Speakers. . . . .	Driver and passenger sides
Cup holder . . . . .	Equipped

**ELECTRICAL**

Type . . . . .	.24V, negative earth
Batteries . . . . .	.2x12V, series-onnection.Capacity65A.h at 20-hour rate
Alternator type . . . . .	Brushless with built-in rectifier and Voltage regulator. Capacity 24V – 50A
Starter type . . . . .	24V, 4.5kW
Headlamps . . . . .	Semi-sealed beam, halogen type 2-headlamps including fog lamps
Hour meter . . . . .	.24V, 100,000 hrs

**STEERING**

Type . . . . .	Telescopic and tilt steering column With locking device. Recirculating Ball with integral power steering
Gear ratio . . . . .	.20.2:1

**INSTRUMENTS**

<b>1. Meters &amp; gauges</b>	<b>2. Warning, pilot lamps &amp; buzzers</b>
Speedometer with trip meter	Oil pressure warning lamp & buzzer
Odometer	Coolant level warning lamp
Tachometer	Parking brake indicator lamp
Fuel gauge	Engine control system warning lamp
Coolant temperature gauge	Back up warning buzzer
Air pressure gauge	

**CHASSIS FRAME**

Type . . . . .	Ladder-shaped channel section side rails
Rear chassis width . . . . .	.870mm
Max.section(depthxflangexthickness). Main:	300x90x8.0mm
Inner:	284x77x3.2mm
Tensile strength . . . . .	.540N/mm2(55 kgf/mm2)
Hooks . . . . .	Equipped for front and rear

**TIPPER BODY & HYDRAULICS**

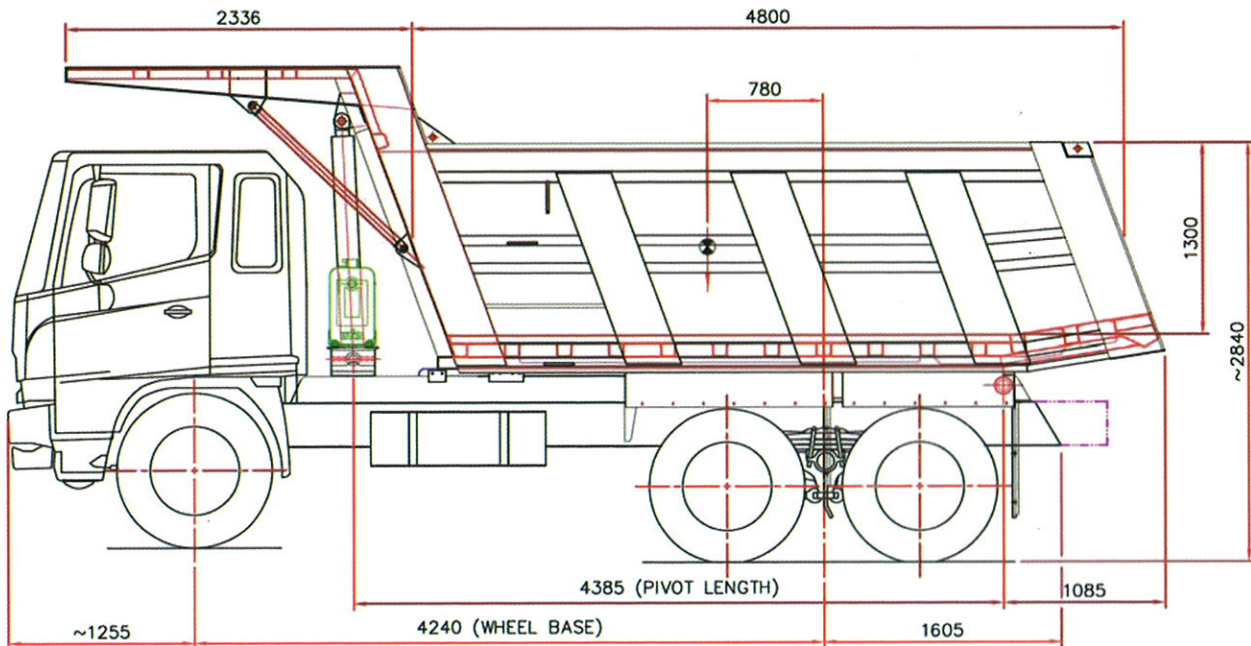
**Box body**

Hydraulics. . . . .	.Hyva make, front mounted 3 stage telescopic tip cylinder Oil capacity. . . . .80L
Tipper body. . . . .	.All steel welded construction Struck volume. . . . .16 cu. m. Dumping angle. . . . .52deg

**Rock body**

Hydraulics. . . . .	.Hyva make, front mounted 3 stage telescopic tip cylinder Oil capacity. . . . .80L
Tipper body. . . . .	.All steel welded construction Struck volume. . . . .14 cu. m. Dumping angle. . . . .53deg

**Dimensions**



**DIMENSIONS- mm**

Wheelbase1(WB1)	.3590
Wheelbase2(WB2)	.1300
Wheelbase as per CMVR	.4240
Overall length(OL)	.7100
Overall width(OW)	.2470
Overall height(OH)	.3420
Cab to rear axle centre(CA)	.3400
Rear overhang, Chassis(ROH)	.1265
Front chassis height(HF)	.1050
Rear chassis height(HR)	.1085
Front track(FT)	.1925
Rear track(RT)	.1860

**WEIGHTS, kg**

Unladen Chassis	Total	.11750
	Front axle	.5050
	Rear axle	.6700
Laden Chassis	Total	.25000
	Front axle	.6000
	Rear axle	.19000

- TOOLS AND ACCESSORIES**
- Hydraulic Jack
  - Standard toolkit
  - CMVR Kit

**DISCLAIMER**

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