



**Model:** FVR 950 Heavy Duty  
**GVM:** 16,000kg  
**GCM:** 32,000kg  
**Engine type:** Isuzu SiTEC 270  
**Displacement:** 9839cc  
**Power:** 199kW @ 2200rpm  
**Torque:** 1,000Nm @ 1500rpm

# FVR 950 Heavy Duty

Cab/Chassis specification as at January 1999.  
RGS/IGM2706

## CABIN SPECIFICATIONS AND APPOINTMENTS

### CAB EXTERIOR

- All steel cab with welded strengthening ribs and side door impact beams. Torsion bar assisted cabin tilt to 45°.
- Four point cabin suspension utilising silicone filled rubber isolators.
- Cation electrodeposition primer.
- Heavy duty bumper bar with step holes and footplate.
- Halogen headlamps, hinged for easy bulb replacement.
- Park lamps and cabin clearance lamps.
- Turn signal lamps in front bumper and over wheel arches.
- 2 speed windscreen wiper / washer system with variable intermittent mode. Triple washer jets mounted on wiper arms.
- Tinted and laminated windscreen. Tinted and toughened side and rear glass.
- 'West Coast' type rear view mirrors.
- Alloy, non-slip cabin entry steps.
- Lift-up front panel for access to clutch and windscreen washer fluids without tilting the cabin. Engine fluid check points at rear of cabin.

### CAB INTERIOR

- Fully trimmed cab interior with cloth seat facings, formed roof lining. Overhead storage lockers. Driver and passenger sun visors.
- Pull out drinks holder in centre fascia, cigarette lighter with ash trays in doors.
- Isringhausen ISRI 6500/517 air suspension driver's seat with auto weight adjustment to 130kg. Height, rake and back rest recline adjustment. Pneumatic lumbar support.
- Outboard reclining passenger seat with under seat storage drawer. Folding centre seat back with lockable compartment and tray.
- Outboard lap/sash seat belts with emergency locking retractors, centre lap seat belt.
- Tilt/telescopic adjustable steering column with single release lever. Soft feel urethane steering wheel with zero offset to driver's seat.
- Easy entry grab handles on 'A' and 'B' pillars.
- Heater demister with 4 speed fan, 4 outlet vents to screen, 5 fascia outlets, 5 foot outlets, demister ducts to door glass.
- Optional fully intergrated air conditioning.
- Eurovox AM/FM radio cassette with digital clock, dash mounted. Remote seek/volume and mute switch located on dash to right of steering wheel.
- DIN standard aperture in dash for CB radio.
- 12 Volt /100W cigarette lighter type electrical socket located in centre console.
- 24 Volt - 2 pin accessory plug in centre console.
- Park brake activation lever at left side of driver's seat.
- Combination passenger-side dash storage tray/fuse panel cover.
- Interior rear vision mirror.
- Passenger side assist grip.
- Driver's left foot rest.
- Exhaust vents rear/upper cab.
- Business card clip. Coat hook at rear of cab.
- Elastic mesh pocket on driver's door.

### CONTROLS

- Left side combination stalk switch for exhaust brake, windscreen wipers and washer, hazard lamps.
- Right side combination stalk switch for headlamps, high beam and turn signals.
- Engine idle speed adjust control.
- Key operation for engine start and stop, external engine crank switch for service when cab is tilted.
- 3 way switch for interior lamp activated by driver and passenger doors.

### INSTRUMENTATION

- GAUGES: Speedometer, odometer, trip meter and tachometer. Gauges for coolant temperature, fuel level and brake air pressure.
- WARNING LAMPS: With warning bulb check switch. Battery charge, oil pressure, low air pressure, brake system, stop and tail light failure.
- INDICATOR LAMPS: Turn signals, parking brake on, high beam on, exhaust brake engaged. Reversing lamp and beeper.

### TOOLS

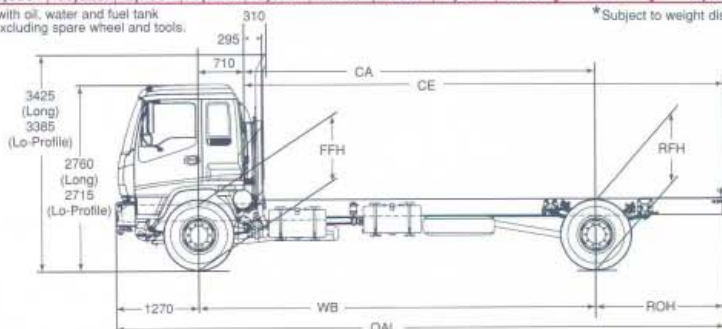
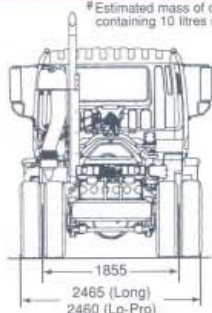
- Lockable tool box. 10,000kg capacity jack and wheel changing tools, tool kit.

## MODEL RATINGS AND DIMENSIONS

MODELS	RATINGS		TARE MASS*			DIMENSIONS (mm)								TURNING CIRCLE	NOMINAL MAX BODY LENGTH*	
	GVM	GCM	TOTAL	FRONT	REAR	WB	OAL	ROH	CA	CE	FFH UNLADEN	FFH LADEN	RFH UNLADEN			RFH LADEN
FVR 950 LONG	16,000kg	32,000kg	5,355kg	3,175kg	2,180kg	6,050	10,020	2,700	5,340	8,040	950	905	1,045	980	22.5m	8,660
FVR 950 LO-PRO	16,000kg	32,000kg	5,305kg	3,155kg	2,150kg	6,050	10,020	2,700	5,340	8,040	910	865	1,005	940	22.5m	8,395

\* Estimated mass of cab/chassis with oil, water and fuel tank containing 10 litres of fuel and excluding spare wheel and tools.

\* Subject to weight distribution



For further information regarding Cab/Chassis dimensions your Isuzu Dealer can access detailed Body Builders diagrams from the Isuzu Truck Data Manual.

## DRIVELINE SPECIFICATIONS

### ENGINE: ISUZU SITEC 270

Isuzu 6SD1-TC 6 cylinder, in line, overhead camshaft, four stroke, direct injection, diesel.

Turbocharged and Air-To-Air Intercooled.

**BORE X STROKE:** 120 mm x 145 mm.

**DISPLACEMENT:** 9839 cc.

**COMPRESSION RATIO:** 16.5 : 1.

**POWER:** 199 kW @ 2200 RPM. (ISO 1585)

**TORQUE:** 1,000 Nm @ 1500RPM. (ISO 1585)

### COOLING SYSTEM

- 6 blade plastic cooling fan 600 mm diameter with bell-mouth fan shroud and dual drive belts.
- Bimetallic controlled, thermatic fan clutch.
- Tube and corrugated fin, pressure type radiator. Dimensions: 800 mm x 636 mm x 54 mm. Frontal area 5,088 cm<sup>2</sup>.
- Coolant capacity 29.0 litres.

### AIR INTAKE SYSTEM

- Donaldson 13" diameter, dry element, two stage filter. Vertical Intake stack with rain head.
- Turbocharger and Air-To-Air Intercooler. Intercooler dimensions: 540 mm x 470 mm x 53 mm. Total intercooler frontal area 2,540 cm<sup>2</sup>.

### EXHAUST SYSTEM

- Horizontal exhaust muffler with vertical exhaust pipe.
- Air controlled, butterfly type exhaust brake.

### FUEL SYSTEM

- In line plunger, Bosch 'AP' type fuel injection pump with 'RLD' mechanical all speed governor.
- Electronic road speed limiter.
- In line, paper element filter, see through water separator with drain cock.
- Fuel tank fitment: Dual tanks, capacity 360 litres..

### TRANSMISSION

#### EATON FS-8209 9 speed direct drive

- 8 synchronised, regular usage forward speeds. One forward crawler speed. 1 reverse speed.. Oil capacity 8.5 litres.
- 'Repeat-H' shift pattern. Pre-selected and synchronised range change.
- Gear ratios to 1:

Low	1st	2nd	3rd	4th
12.64	8.81	6.55	4.77	3.55
Rev	5th	6th	7th	8th
13.21	2.48	1.85	1.34	1.00

- Maximum geared speed:  
FVR 950 H.D. LONG: 115 km/h.  
FVR 950 H.D. LO-PROFILE: 105 km/h.
- Electronically road speed limited to 100km/h.

### CLUTCH

- Hydraulic control dry single plate with cushioning springs. Coil type pressure springs. Asbestos free lining material.
- Pneumatic clutch release assistance.
- Clutch disk diameter 381 mm (15") diameter.
- Total lining area (both sides) 1363 cm<sup>2</sup>.

### FRONT AXLE

ISUZU F063 CAPACITY 6300KG

- Reverse Elliot I-beam type. King Pin diameter 50 mm with cylindrical roller thrust bearing.
- Oil bath lubricated front wheel hubs with see-through oil level indicator.

### REAR AXLE

MERITOR RS-23-160G CAPACITY 10,500KG

- Banjo type, fully floating, single reduction.
- Rear Axle Ratio: 3.909: 1
- Hypoid type ring gear, 457 mm diameter. Oil capacity 15.0 litres.

## CHASSIS SPECIFICATIONS

### CHASSIS FRAME

- Parallel rail, ladder type, channel section, cold riveted.
- Straight frame for easy body mounting. 850 mm frame width.
- Rear crossmember and spring hanger brackets bolted to frame allowing easy wheelbase modification.
- Frame side member dimensions: 258 mm x 85 mm x 10 mm.
- Frame reinforcement angle 'L' section: 224 x 85 x 4.5 mm and 224 x 85 x 6.0 mm.
- Frame material: SAPH440 weldable mild steel.

### SUSPENSION

Semi-elliptical, alloy steel tapered multi-leaf springs. Fully wrapped eye with greasable shackles.

#### FRONT

- 1470mm x 80mm x 12mm x 2 leaves.  
x 80mm x 13mm x 6 leaves.
- Stabiliser bar.
- Hydraulic, double acting, telescopic shock absorbers.

#### REAR

- Main: 1420 x 100mm x 12mm x 8 leaves  
Aux: 980 x 100mm x 10mm x 2 leaves  
980 x 100mm x 11mm x 4 leaves
- Stabiliser bar.

### BRAKES

- Menitor 'Q-Plus' full air, 'S'-cam, dual circuit brake system with front and rear leading and trailing shoes. Asbestos free brake shoe lining material.
- Drum diameters (front and rear): 419 mm.
- Brake drum swept areas: 8,688 cm<sup>2</sup> total: 4,002 cm<sup>2</sup> front, 4,686 cm<sup>2</sup> rear.
- Air reservoir capacity: 67.5 litres
- Spring park brake acting on rear wheels with 11.0 litre tank.
- Air controlled, butterfly type exhaust brake.
- Nylon brake air tubing.
- Air dryer.

### STEERING

- Fully integral power assisted recirculating ball and nut type.
- Gear ratio 22.4 : 1. Turns lock to lock 45.
- Gear driven vane type oil pump. See-through oil reservoir. Oil capacity 2.5 litres (inc. reservoir).

### WHEELS AND TYRES

#### WHEELS

- 8.25 x 22.5, 10 stud ISO standard (hub piloted) disc wheels. Stud size: 22mm. Offset: 165mm.
- Winch type spare wheel carrier, mounted on chassis frame on passenger side.
- Number of wheels and tyres 7, including spare.

#### TYRES

- FVR 950 Long: 11R22.5 148/145L tubeless radial tyres front and rear.  
Type: Michelin XZE1 (Front and Spare)  
Michelin XDE1 (Rear)
- FVR 950 Lo Profile: 275/70R22.5 148/145L tubeless radial tyres front and rear.  
Type: Michelin XZE2 (Front and Spare)  
Michelin XDA (Rear)
- Load and speed ratings per tyre:  
3150kg (single) / 2900kg (dual)  
120 km/h: FVR Long.  
130 km/h: FVR Lo Profile.

### ELECTRICAL SYSTEM

- Batteries - 2 x 12 volt / 65 amp/h, negative earth.
- Alternator - 24 volt / 40 amp.
- Starter motor - 24 volt / 4.5 kW.
- Rear stop and tail lamps and licence plate lamp with long leads for variable body mounting.

## ISUZU NEW TRUCK WARRANTIES

Subject to the conditions outlined in the I-GM New Vehicle Warranty, the Isuzu FVR Heavy Duty models carry a standard factory warranty which covers the owner: (i) for the entire vehicle, for the first 24 months or 150,000km (whichever comes first) (ii) for the powertrain, which runs concurrently for 36 months or 200,000km (whichever comes first) (iii) against cab corrosion, for 36 months and unlimited kilometres.

A TruckPower Extended Warranty is available by purchase to cover the owner against the failure of original components, but excludes some components and expendable items such as oil, filters, etc. Three variations of the Extended Warranty are available: 36 months or 200,000km, 48 months or 300,000km and 60 months or 350,000km. Please consult with your Isuzu Dealer for full details obtainable from a dedicated brochure available to customers.

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# ISUZU

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