

ISUZU FRR 550 FRR 550-S

(Crew cab models of FRR 550 also available - refer separate specification sheet)



ISUZU
RELIABILITY IS EVERYTHING

AT A GLANCE

GVM	10,400 kg
GCM	16,000 kg
Engine Type	Isuzu SiTEC 220 / 255
Displacement	7.8 L
Power	164 kW @ 2,400 rpm 191 kW @ 2,500 rpm
Torque	668 Nm @ 1,500 rpm 745 Nm @ 1,500 rpm
Wheelbase	4,250 - 5,150 mm

FRR 550 Medium / Long

FRR 550-S Long

DRIVELINE & CHASSIS SPECIFICATIONS

ENGINE:

Type: 6 cylinder, 4 stroke, 24 valve, SOHC, direct injection diesel. Turbocharged and air-to-air intercooled. Adjustable roller type rocker arms.

Displacement: 7,790 cc

Compression Ratio: 16.8:1

Bore x Stroke: 115 x 125 mm

FRR 550: SITEC 220 (ISUZU 6HK1-TCC)

Max power (DIN NET): 164 kW (220 HP) @ 2,400 RPM

Max torque (DIN NET): 668 Nm (493 lb.ft) @ 1,500 RPM

Emissions Standard: ADR 80/00 (USEPA 1998)

FRR 550-S: SITEC 255 (ISUZU 6HK1-TCS)

Max power (DIN NET): 191 kW (256 HP) @ 2,500 RPM

Max torque (DIN NET): 745 Nm (549 lb.ft) @ 1,500 RPM

Emissions Standard: ADR 80/00 (Euro III)

- Plate type oil cooler. 13.5 L oil capacity. Combined full flow main filter and bypass oil filter.

COOLING SYSTEM

- 8 blade, 640 mm diameter cooling fan with thermostatically controlled viscous clutch. Dual drive belts and thermostats.
- Radiator frontal area: 4,452 cm² (FRR550)
5,088 cm² (FRR 550-S)
- 23 L coolant capacity.

AIR INTAKE SYSTEM

- Vertical air intake mounted on back of cab. Two stage Donaldson air cleaner with 280 x 380 mm main element and 160 x 350 mm secondary element.
- 540 x 580 mm air-to-air intercooler.

FUEL SYSTEM

- Denso common rail fuel injection (FRR 550), Zexel MD-TICS in line fuel injection pump (FRR 550-S). Separate fuel filter and water separator.
- 180 L steel tank.

CLUTCH

- Air assisted hydraulic control. Single plate 381 mm diameter.
- Asbestos free lining material. Total lining area: 1,363 cm²

TRANSMISSION

ISUZU MLD-6Q 6 Speed manual (FRR 550)

- 6 forward speeds including overdrive.
- Syncromesh on gears 2-6. Air assisted gearshift.
- 6.5 L oil capacity.
- PTO provision on LHS of transmission case. PTO drive from counter gear.
- Gear ratios (: 1)

1st	2nd	3rd	4th	5th	6th	Rev
6.720	4.244	2.580	1.540	1.000	0.763	6.823

EATON FULLER FSO-6B 6 Speed manual (FRR-550-S)

- 6 forward speeds including overdrive.
- 825 Nm (608 lbf.ft) torque capacity.
- Syncromesh on all forward gears.
- 6.4 L oil capacity.
- Two SAE PTO openings on LHS of transmission case.
- Gear ratios (: 1)

1st	2nd	3rd	4th	5th	6th	Rev
6.08	3.53	2.09	1.35	1.00	0.79	5.43

SITEC 220

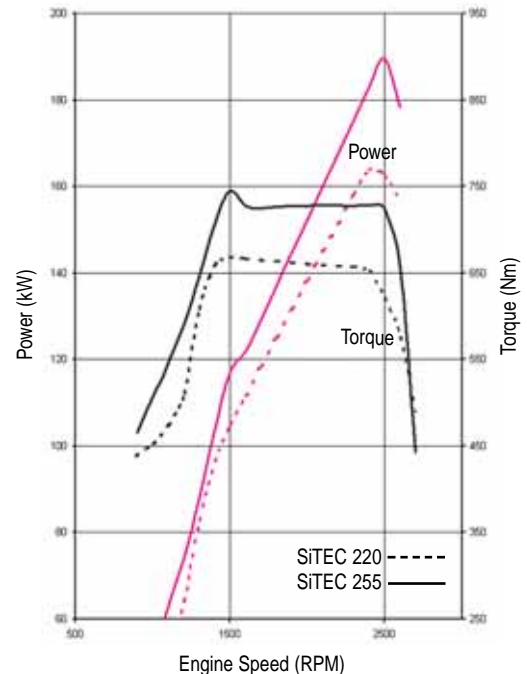
Power : 164 kW / 2,400 RPM

Torque : 668 Nm / 1,500 RPM

SITEC 255

Power : 191 kW / 2,400 RPM

Torque : 745 Nm / 1,500 RPM



ISUZU SITEC 220 (6HK1 - TCC) & SITEC 255 (6HK1-TCS)
ENGINE PERFORMANCE CHART

AXLES

FRONT: ISUZU F036

- Reverse Elliot I-beam. 3,600 kg capacity.

REAR: ISUZU R077

- Full floating Banjo type. 7,700 kg capacity.
- Drive ratio: 4.333:1 (FRR 550), 4.100:1 (FRR 550-S)

SUSPENSION

FRONT

- Single stage, alloy steel, taper leaf springs. Fully wrapped eye with greasable shackles.
- Nominal size: 1,350 x 70 mm
- Total spring capacity (at ground): 3,850 kg
- Double acting hydraulic shock absorbers. Stabiliser bar.

REAR

- Two stage, alloy steel, multi-leaf springs. Fully wrapped eye with greasable shackles.
- Nominal size: 1,300 x 70 mm
- Total spring capacity (at ground): 7,330 kg
- Stabiliser bar.

BRAKES

- Dual circuit air over hydraulic brakes.
- Front drum diameter: 320 mm
- Rear drum diameter: 320 mm
- Swept area: 5,127 cm²
- Asbestos free lining material.
- Spring type parking brake acting on rear wheels.
- Air controlled exhaust brake.
- Total air reservoir capacity: 36 L.
- Air dryer.

STEERING

- Power assisted recirculating ball steering.
- 16.1 - 18.8:1 gear ratio.
- 4.1 turns lock to lock.
- 51° wheel cut angle (inside wheel).

WHEELS AND TYRES

- 6.00J x 17.5 Six stud wheels.
- 9.5R17.5 129/127L Michelin XZA Tubeless tyres.
- Maximum tyre rating: 1,850 kg per tyre (single tyres).
1,750 kg per tyre (dual tyres).
- Frame mounted winch type spare wheel carrier.
Spare wheel and tyre assembly supplied.

AXLE LOAD SUMMARY

	FRONT	REAR
Axle Capacity (kg):	3,600	7,700
Spring Capacity (kg):	3,850	7,330
Tyre Capacity (kg):	3,700	7,000
Limit (kg):	3,600	7,000

Note: Vehicle loading limit is determined by the combination of axle loading limit, GVM and GCM limit, and government regulatory requirements. Consult your Isuzu dealer to select the correct vehicle for your specific application.

CHASSIS FRAME

- Cold riveted ladder frame with parallel side rails. HT540A high tensile weldable steel.
- Frame dimensions
Side rail (mm): 225 x 70 x 6.0
Rear frame width (mm): 840
- Frame reinforcement section (Long only).

ELECTRICAL SYSTEM

- 24 Volt electrical system.
- 24 Volt, 60 Amp alternator.
- 24 Volt, 4.5 kW starter motor.
- 2 x 75D23R (520CCA) batteries connected in series.

CABIN SPECIFICATIONS AND APPOINTMENTS

CAB EXTERIOR

- All steel cab, side door impact protection beams. Outer body panels galvanised, corrosion resistant primer treated cab.
- Manual cab tilt to 45°. Access to fluid checkpoints without tilting cab. Front access panel for clutch, windscreen washer fluids and cab air filter screen. Four point silicone filled rubber cab mounting.
- Body coloured steel front bumper with step holes and integrated indicator and fog lamps.
- 90° opening internally reinforced door. Heavy duty aluminium non slip entry steps.
- Tinted, laminated windscreen. 2 speed windscreen wiper system, variable intermittent wipe mode, triple washer jets.
- Halogen headlamps. Park lamps and roof-mounted clearance lamps.
- Combination brake, turn, reverse and marker lamps, registration plate illumination lamps. Extended wiring harness. Reverse alarm.
- 'West Coast' type rear view mirrors. Large flat mirror glass with additional, independently adjustable convex 'spot' mirror on both sides.
- Dual tone air horn (FRR 550-S).

CAB INTERIOR

- Isringhausen ISRI 6500/517 air suspension driver's seat, auto weight adjustment to 130 kg. Height, rake and backrest recline adjustment. Pneumatic lumbar support. Outboard reclining passenger bucket seat, centre seat with folding seat back.
- 3-point, lap sash seatbelts with emergency locking belt retractors in all outboard seating positions. Centre lap seatbelt.
- 'A' pillar entry assist grips. Fluorescent dome interior lamp with On/Door/Off switch activated by either door.

- Full interior panel trim, padded roof lining, vinyl floor mats. Windscreen header storage shelf. DIN sized aperture in dash for CB. Overhead console fitted with harness for CB.
- Tilt/Telescopic adjustable steering column, soft feel urethane steering wheel.
- 12 Volt, 100 Watt and 24 Volt, 2 pin accessory sockets located in centre console.
- Electric windows.
- Central locking with remote keyless entry.
- Centre facia pullout drinks holder. Lockable compartment on centre seat back. Cigarette lighter.
- Heater/Demister with 4-speed fan and outlets for windscreen, side windows, face and floor.
- Standard fully integrated air conditioning.
- Two speaker Eurovox Radio/CD player with digital anti skip memory.
- Remote seek/volume and mute switch located on dash to right of steering wheel.
- Optional 10 stack CD player.

DRIVER CONTROLS

- Key-operated engine start/stop and steering lock. Engine idle speed control.
- Left side combination stalk: Windscreen wipers, washers, exhaust brake and hazard lights.
- Right side combination stalk: Turn signals and headlamps.

INSTRUMENTATION

- Gauges: Electronically driven speedometer, odometer, tripmeter, tachometer. Gauges for coolant temperature and brake air pressure.
- Warning lamps: Warning bulb check switch. Battery charge, brake system, engine malfunction, oil pressure, stop and tail lamp failure.
- Indicator lamps: Turn signals, parking brake, high beam, exhaust brake engaged.

FRR 550 Medium / Long

FRR 550-S Long

PERFORMANCE (Calculated)

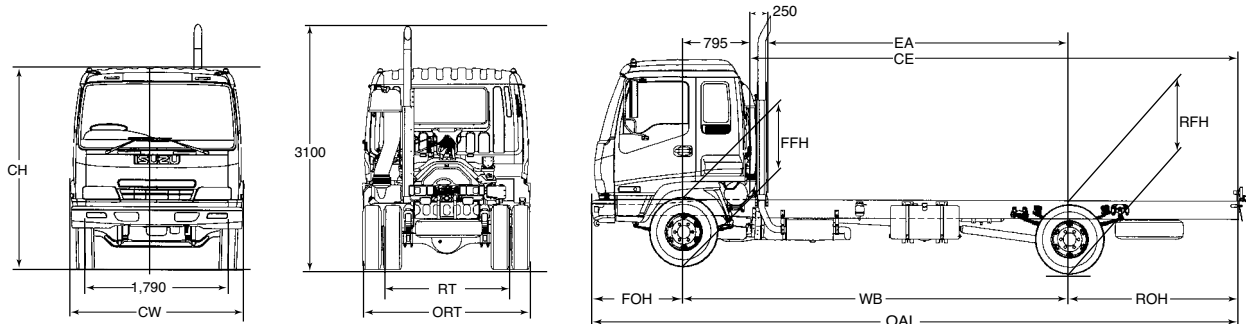
	FRR 550 MEDIUM / LONG	FRR 550-S LONG
Max Geared speed:	123 km/h @ 2,650 rpm	123 km/h @ 2,600 rpm
Gradeability (lowest gear):	42% at 10,400 kg GVM	40% at 10,400 kg GVM
Gradeability (top gear at 100 km/h):	1.4% (2.5 x 2.7 m van body at 10,400 kg GVM)	1.8% (2.5 x 2.7 m van body at 10,400 kg GVM)
Engine speed (top gear at 100 km/h):	2,160 rpm	2,115 rpm

Performance figures quoted are representative only and based on typical dimensions, body styles and weights. Please consult your Isuzu dealer for an estimation based on your specific application.

MODEL RATINGS AND DIMENSIONS

MODELS	RATINGS (kg)		TARE MASS [#] (kg)			DIMENSIONS (mm)													TURN CIRCLE KERB TO KERB
	GVM	GCM	TOTAL	FRONT	REAR	WB	OAL	FOH	ROH	EA	CE	RT	ORT	CH	CW	FFH	RFH		
FRR 550 Medium	10,400	16,000	3,265	2,180	1,085	4,250	7,195	1,160	1,785	3,205	5,240	1,660	2,155	2,595	2,200	725	885	13.4 m	
FRR 550 Long	10,400	16,000	3,385	2,240	1,145	5,150	8,595	1,160	2,285	4,105	6,640	1,660	2,155	2,595	2,200	730	915	15.7 m	
FRR 550-S Long	10,400	16,000	3,385	2,240	1,145	5,150	8,595	1,160	2,285	4,105	6,640	1,660	2,155	2,595	2,200	730	915	15.7 m	

Estimated mass of cab/chassis with oil, water and fuel tank containing 10 litres of fuel and excluding spare wheel (47 kg) and tools (30 kg).



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

	Model	Medium	Long
ORDER CODES	FRR 550	8FE02-2C0 (MU3)	8FF02-2C0 (MU3)
	FRR 550-S	N/A	8FF02-2D3 (MU3)

ISUZU NEW TRUCK WARRANTIES

STANDARD TRUCKPOWER WARRANTY*			TRUCKPOWER EXTENDED WARRANTY OPTIONS*		
New Vehicle	3 years	150,000 km	4 years 250,000 km	5 years 300,000 km	6 years 350,000 km
Drivetrain	3 years	150,000 km			
Cab Corrosion	3 years	unlimited			

* Subject to the conditions outlined in the IAL New Vehicle Warranty, the Isuzu FRR models carry a standard factory warranty which covers the owner: (i) for the entire vehicle, for the first 36 months or 150,000 km (whichever comes first). (ii) for the drivetrain, which runs concurrently, for 36 months or 150,000 km (whichever comes first). (iii) against cab corrosion, for 36 months and unlimited kilometres.

A TruckPower Extended Warranty as illustrated 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. Please consult with your Isuzu Dealer for full details obtained from a dedicated brochure available to customers.

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