

# FRR 500 | FRR 500 Crew FRD <u>500</u>





## AUSTRALIA'S TOP SELLING TRUCK BRAND SINCE 1989. Truck tracker 2007.

# AT A GLANCE

GVM	10,400 kg
GCM	16,000 kg
Power	154 kW @ 2,600 rpm
Torque	637 Nm @ 1,600 - 2,600 rpm

# **UPGRADE OPTIONS**

# AMT Pack:

- Automated Manual Transmission (AMT)
- Instrument panel multi-information display
- Cruise control

## ADVANCED TECHNOLOGY

- Driver airbag with seatbelt pretensioner
- Anti-lock Braking System (ABS)
- Anti Skid Regulator (ASR) except crew
- Hill Start Aid (HSA)
- Electric mirrors
- Front stabiliser bar
- ISRI 6860 seat with integrated seatbelt
- Electronically controlled 4-bag air rear suspension (FRD model)

RELIABILITY IS EVERYTHING **SUZU** 



# **Driveline & Chassis Specifications**

## ENGINE: SITEC SERIES II 205 (ISUZU 4HK1-TCS)

Туре:		4 cylinder 16 valve SOHC				
Displacement:		5,193 cc				
Compression Ratio:		17.5:1				
Bore x Stroke:		115 mm x 125 mm				
Max power (DIN-NET):		154 kW (207 HP) @ 2,600 RPM				
	(JIS Gross):	160 kW (214 HP) @ 2,600 RPM				
Max torque	(DIN-NET):	637 Nm (470 lb.ft) @ 1,600 - 2,600 RPM				

(JIS Gross): 659 Nm (486 lb.ft) @ 1,600 - 2,600 RPM Induction system: Electronically controlled variable nozzle turbocharger with air-to-air intercooler.

Fuel injection: Direct injection high pressure common rail system. Emission control system: Two-stage electronically controlled cooled EGR with exhaust Diesel Particulate Diffuser (DPD). ADR 80/02 (Euro IV) compliant. Engine driven PTO (FRR 500 PTO model only):

Constant mesh. Rotates at 0.7 x engine speed.

- 353 Nm maximum output torque.
- Anti-clockwise rotation when viewed from rear of engine.

## **CLUTCH**

Standard and MQ model:

- Air assisted hydraulic control. Single plate 352 mm diameter.
- Total lining area: 1,164 cm<sup>2</sup>

AMT Pack:

 Fully automated hydraulically controlled wet clutch and fluid coupling with lock up.

#### **TRANSMISSION**

#### Isuzu MZX-6P (except MQ model)

• Synchromesh on gears 2-6. Triple cone synchromesh on 2nd and 3rd gears. Integral oil pump provides full pressure lubrication.

• Gear ratios (: 1)

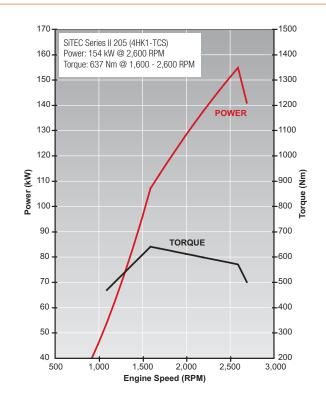
1st	2nd	3rd	4th	5th	6th	Rev
6.615	4.095	2.358	1.531	1.000	0.722	6.615

Standard model:

• 6 speed manual with air assisted shift.

AMT Pack:

 6 speed Automated Manual Transmission (AMT) with both fully automatic and clutchless manual operation modes.



#### ISUZU MLD-6Q (MQ model)

- 6 speed manual with air assisted shift.
- Synchromesh on gears 2-6.
- 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

# **Driveline & Chassis Specifications**

## **AXLES**

Front: Isuzu F041

- Reverse Elliot I-beam. 4,100 kg capacity. Rear: Isuzu R077
- Full floating Banjo type. 7,700 kg capacity.
- Drive ratio: 5.125:1 (FRR/FRD 500, FRR 500 PT0 MQ) 4.875:1 (FRR/FRD MQ)

## **SUSPENSION**

Front:

- Single stage alloy steel taper leaf springs (except FRR 500 PT0). Single stage alloy steel multi leaf springs (FRR 500 PT0).
- · Double acting hydraulic shock absorbers. Stabiliser bar.

Rear (FRR 500):

• Multi leaf main spring, multi leaf helper spring.

Rear (FRD 500):

- Isuzu 4-bag electronically controlled air suspension system.
- Double acting hydraulic shock absorbers. Stabiliser bar.

#### BRAKES

- · Dual circuit air over hydraulic front and rear drum brakes.
- ABS.
- ASR traction control (except crew).
- Hill Start Aid (HSA).
- Front drum size: 320 x 120 mm
- Rear drum size: 320 x 145 mm
- Spring park brake.
- Air controlled exhaust brake.
- Air dryer.

#### **STEERING**

- Power assisted recirculating ball steering.
- Gear ratio: 16:1 18.8:1
- Turns lock to lock: 4.1
- Maximum angle: 52° (inside wheel) / 39° (outside wheel)

## WHEELS AND TYRES

- 17.5 x 6.00J six stud steel wheels.
- Steer axle: 9.5R17.5 129/127L Michelin XZA Tubeless
- Drive axle: 9.5R17.5 129/127L Michelin XZA Tubeless (except FRR 500 PT0) 9.5R17.5 129/127L Michelin XZT Tubeless (FRR 500 PT0)
- Maximum tyre rating: Steer axle: 3,700 kg Drive axle: 7,000 kg
- · Spare wheel and tyre assembly with winch type carrier.

#### **CHASSIS FRAME**

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

#### FUEL TANK

- Frame mounted 200L steel fuel tank.
- · Lockable fuel cap.

#### **ELECTRICAL SYSTEM**

- 24 volt electrical system.
- Single cab: 60 amp alternator. Crew cab: 90 amp alternator.
- 24 Volt, 4.5 kW starter motor.
- 2 x 80D26L (630 CCA) batteries connected in series.

# FRR Medium | Long | PTO | X-Long | Crew FRD X-Long

# Cabin Specifications and Appointments

## **CAB EXTERIOR**

- All steel construction. High tensile steel used for cab underframe. Single cab: Manual cab tilt to 45° with torsion bar assistance. Crew cab: Electro-hydraulic cab tilt.
- Single cab: Liquid filled front and rear cab mounts. Crew cab: Rubber cab mounts.
- Heavy duty non slip entry steps.
- 90° opening internally reinforced front doors.
- Water spray suppression guards and front mudflaps.
- · Laminated windscreen with shade band.
- · Two speed windscreen wipers, with intermittent wipe mode.
- Halogen multi-reflector headlamps incorporating turn signals. Additional door mounted side indicator lamps.
- Combination brake, turn, reverse and marker lamps, registration plate illumination lamps. Extended wiring harness. Reverse alarm.
- Roof-mounted clearance lamps.
- Heated and powered exterior main mirrors with flat glass and additional powered convex "spot" mirrors.
- · Body coloured grille.
- Body coloured steel bumper with front foglamps. Air dam type (except FRR 500 PT0). Standard type (FRR 500 PT0).

## **CAB INTERIOR**

- Isri 6860 air suspension driver's seat with pneumatic lumber support, height, rake and automatic weight adjustment.
- Front passenger adjustable bucket seat and front centre seat with folding seat back.
- Crew cab: Rear bench seat with 4 seat capacity.
- 3-point lap sash seatbelts in all outboard seating positions. Driver seatbelt with pre-tensioner integrated with driver seat. Centre seat lap belts.
- Driver airbag.
- AMT Pack: Driver's footrest.
- Door and roof pillar entry assist grips. Crew cab: Full width rear grab rail with ashtray.
- Full interior trim, padded roof lining and vinyl floor covering. Driver and passenger windscreen header storage shelf.
- Tilt/Telescopic adjustable steering column, soft feel urethane steering wheel.
- Electric windows.
- · Central locking with remote keyless entry and immobiliser.
- Twin cup holders. 24V cigarette lighter. Dashboard hook.
- · Front door mounted storage pockets and driver's side ashtray.
- Centre console box with storage tray. Fold down storage tray behind centre seat backrest.
- · Front passenger glovebox.

- Fully integrated air conditioning and heater/demister with 4-speed fan and outlets for windscreen, side windows, face and floor.
- Flourescent type interior lamp with On/Door/Off switch.
- Two speaker radio/CD player with clock.
- DIN sized compartment for storage or for CB radio installation.

#### **DRIVER CONTROLS**

- Key-operated engine start/stop and steering lock. Engine idle speed control.
- · HSA slow/fast engagement control and on/off switch.
- ASR on/off (except crew).
- DPD regeneration.
- Hand held pendant for rear suspension raise and lower (FRD only).
- AMT Pack: AMT slow/fast gear engagement control, 1st gear start and normal/economy gear selection modes.
- Left side combination stalk: Windscreen wipers, washers and exhaust brake.
- Right side combination stalk: Turn signals and headlamps. AMT Pack: Cruise control.

#### **INSTRUMENTATION**

- Electronically driven speedometer and tachometer. Digital odometer with integrated dual tripmeter. Engine coolant temperature, fuel level and air pressure gauges.
- Warning lamps: Check engine, oil pressure, ABS, SRS airbag, alternator charge, service brakes, park brake, seat belt unfastened, low air pressure, air suspension failure (FRD only), low fuel level, cab lock. AMT Pack: Check AMT.
- Indicator lamps: HSA, warm up system, high beam, ASR (except crew), DPD status, exhaust brake, turn signals. AMT Pack: Cruise control, econo-mode, 1st gear start.
- AMT Pack: Gear selection display.
- AMT Pack: Multi-information display. Shows service interval, instantaneous and average fuel consumption, DPD bar chart, hourmeter, voltmeter, time/day/date and includes 40-120 km/h adjustable vehicle speed warning.

#### **OPTIONS AND GENUINE ACCESSORIES**

Include the following (extra cost, check with dealer for availability):

- Radio/CD multimedia unit.
- Radio/CD multimedia unit and module for Bluetooth/iPod input/SD card reader.
- Radio/CD multimedia unit and module for Bluetooth/iPod input/SD card reader/satellite navigation (includes NAVTEQ mapping).
- Up to two reversing cameras (multimedia unit required).
- Airbag compatible bullbar.
- Cloth seat covers.

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# Weights (kg)

Madala	Rat	Ratings*		Loading Limit* (at ground)		Cab Chassis Mass#		
Models	GVM	GCM	Front	Rear	Front	Rear	Total	
FRR 500 PTO MQ	10,400	16,000	3,700	7,000	2,145	1,160	3,305	
FRR 500 Medium	10,400	16,000	3,700	7,000	2,040	1,140	3,180	
FRR 500 Medium MQ	10,400	16,000	3,700	7,000	2,075	1,150	3,225	
FRR 500 Medium AMT	10,400	16,000	3,700	7,000	2,055	1,145	3,200	
FRR 500 Long	10,400	16,000	3,700	7,000	2,060	1,150	3,210	
FRR 500 Long MQ	10,400	16,000	3,700	7,000	2,100	1,160	3,260	
FRR 500 Long AMT	10,400	16,000	3,700	7,000	2,075	1,155	3,230	
FRR 500 X-Long	10,400	16,000	3,700	7,000	2,110	1,175	3,285	
FRR 500 X-Long MQ	10,400	16,000	3,700	7,000	2,145	1,190	3,335	
FRD 500 X-Long	10,400	16,000	3,700	7,000	2,105	1,290	3,395	
FRD 500 X-Long MQ	10,400	16,000	3,700	7,000	2,145	1,300	3,445	
FRR 500 Crew	10,400	16,000	3,700	7,000	2,325	1,235	3,560	
FRR 500 Crew MQ	10,400	16,000	3,700	7,000	2,355	1,245	3,600	
FRR 500 Crew AMT	10,400	16,000	3,700	7,000	2,340	1,240	3,580	

\* Vehicle ratings and front/rear weight limits are subject to government regulatory requirements and weight distribution analysis. Consult your lsuzu dealer to select the correct vehicle for your specific application. # Cab chassis only as supplied and including 10 litres of fuel.

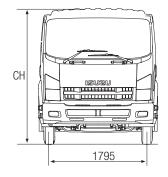
Dimensions (mm)									Turn Circle (m)				
Models	WB	OAL	FOH	ROH	EA	CE	RT	ORT	СН	FFA (unladen)	RFA (unladen)	RFH (unladen)	KERB TO KERB
FRR 500 PTO	3,790	6,555	1,170	1,595	3,020	4,830	1,660	2,152	2,550	750	925	980	12.0
FRR 500 Medium	4,060	6,975	1,170	1,745	3,430	5,250	1,660	2,152	2,585	740	915	980	12.9
FRR 500 Long	4,660	7,875	1,170	2,045	4,030	6,150	1,660	2,152	2,585	740	915	985	14.8
FRR 500 X-Long	5,320	8,625	1,170	2,135	4,690	6,900	1,660	2,152	2,595	740	905	970	16.9
FRD 500 X-Long	5,320	8,625	1,170	2,135	4,690	6,900	1,660	2,152	2,595	740	775	775	16.9
FRR 500 Crew	5,160	8,605	1,170	2,275	3,450	5,848	1,660	2,152	2,595	730	905	985	16.4

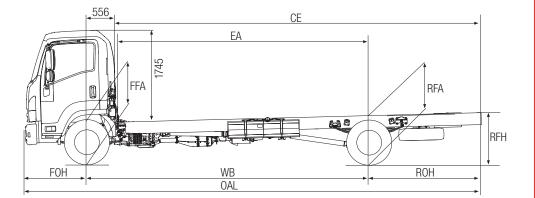
Performance (calculated - typical paved road)								
		Geared Speed* (top gear at peak power engine RPM)	Low Speed Gradeability (lowest forward gear assuming no wheel slip)	Engine Speed (top gear at 100 km/h)				
FRR / FRD 500	At 10,400 kg GVM	108 km/h @ 2,600 RPM	47%	2,415 RPM				
FRR 500 PTO MQ	At 10,400 kg GVM	102 km/h @ 2,600 RPM	47%	2,555 RPM				
FRR / FRD 500 MQ	At 10,400 kg GVM	107 km/h @ 2,600 RPM	45%	2,430 RPM				

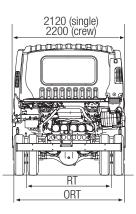
\*Maximum speed achievable depends on vehicle frontal area as well as other factors. Consult your lsuzu dealer for more detailed information.

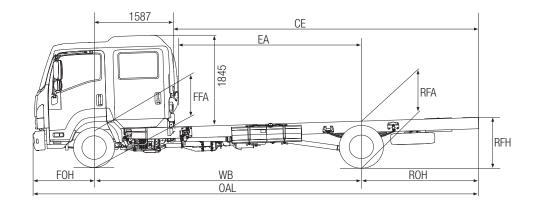












Order Code	S		
Model	Code	Model	Code
FRR 500 PTO MQ	FH-FRREE-A02	FRR 500 X-Long	FH-FRRED-E01
FRR 500 Medium	FH-FRRED-B01	FRR 500 X-Long MQ	FH-FRRED-Y01
FRR 500 Medium MQ	FH-FRRED-T01	FRD 500 X-Long	FH-FRDED-E01
FRR 500 Medium AMT	FH-FRRED-G01	FRD 500 X-Long MQ	FH-FRDED-Y01
FRR 500 Long	FH-FRRED-D01	FRR 500 Crew	FH-FRRGD-P01
FRR 500 Long MQ	FH-FRRED-X01	FRR 500 Crew MQ	FH-FRRGD-S01
FRR 500 Long AMT	FH-FRRED-Z01	FRR 500 Crew AMT	FH-FRRGD-R01

Isuzu Warranties							
STANDARD <sup>1</sup>							
New Vehicle	New Vehicle 3 years   150,000 km   2,500 hrs						
Cab Perforation Corrosion	Cab Perforation Corrosion 3 years   Unlimited km						
EXTENDED <sup>2</sup>							
4 years   250,000 km	5 years   300,000 km	6 years   350,000 km					

<sup>1</sup> Subject to the conditions outlined in the IAL New Vehicle Warranty, the Isuzu FRR and FRD models carry a standard factory warranty which covers the owner: (i) for the entire vehicle, for the first 36 months or 150,000 km or 2,500 hrs (whichever comes first), (ii) against cab perforation corrosion, for 36 months and unlimited kilometres.<sup>2</sup> Extended Warranty as illustrated is available by purchase to cover the owner against the failure of original components, but may exclude some components and expendable items such as oil, filters, etc. Please consult with your lsuzu Dealer for full details obtained from a dedicated brochure available to customers.

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