

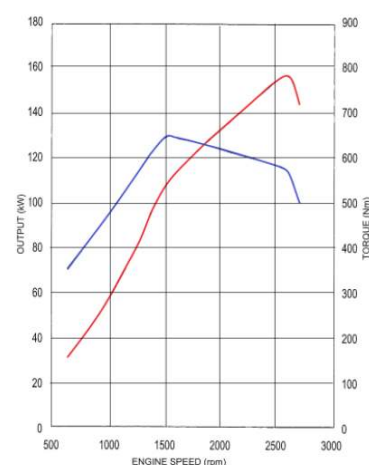
# FRR500



# Tipper 4x2

MODEL	FRR500
GVM (kg)	10,700
GCM (kg)	16,000
Max Power (Kw)	151
Max Torque (Nm)	637
Wheelbase (mm)	3790
Suspension	Steel

ENGINE			
Engine Model	ISUZU 4HK1-TCS	Type	4 cyl 24 valve, SOHC
Displacement	5,193cc	Compression Ratio	17.5:1
Max Power (DIN Nett)	151 kW (205 HP) @2,600 RPM		
Max Torque (DIN Nett)	637 Nm (470 lb.ft) @1,600 RPM		
Emission Control System	Euro V with cooled Exhaust Gas Retention & Diesel Particulate Diffuser, Euro V compliant.		
Fuel System	Electronically controlled direct injection, high pressure common rail 200 litre fuel tank with lockable fuel cap		
Air Intake System	Electronic Variable Geometry System turbocharger with air-to-air intercooler		



CLUTCH		PERFORMANCE	
Standard:	<ul style="list-style-type: none"> <li>Air assist hydraulic control. Single plate 352 mm dia.</li> <li>AMT - Fully automated hydraulically controlled wet clutch and torque convertor with lock up.</li> </ul>	Engine rpm (top gear at 90km/h): 2281	Speed Limit: Not limited
AMT Model (optional) :		Low Speed Gradeability @ GVM (lowest forward gear, no wheel slip)	48%

TRANSMISSION							
Manual:	ISUZU MZW-6P						
standard:	6 speed manual. Synchromesh on gears 2-6.						
Ratios (:1)	1st	2nd	3rd	4th	5th	6th	Rev
	6.615	4.095	2.358	1.531	1.000	0.722	6.615
AMT (optional)	ISUZU MZW-6P, 6 speed Automated Manual Transmission (AMT) with both fully automatic and clutch-less manual operation modes.						
PTO:	provision on LHS of transmission case. PTO drive from mainshaft gear						

AXLES	
Front:	Isuzu F041, Reverse Elliot I-beam. 4,100 kg capacity
Rear:	Isuzu R077, Full floating Banjo type. 7,700 kg capacity
Ratio:	5.125:1
WHEELS AND TYRES	
<ul style="list-style-type: none"> <li>6 stud 17.5X6.75</li> <li>Steer axle: 235/75R17.5-132/130M</li> <li>Drive axle: 235/75R17.5-132/130M</li> <li>Silver painted wheel rims, Frame mounted spare wheel with tyre</li> </ul>	

CHASSIS			
Suspension	Chassis	Brakes	Electrical & Steering
<ul style="list-style-type: none"> <li>FRONT: Single stage alloy steel taper leaf springs. Single stage alloy steel multi leaf springs.</li> <li>Double acting hydraulic shock absorbers. Stabiliser bar.</li> <li>REAR: Multi leaf main spring, multi leaf helper spring.</li> </ul>	<ul style="list-style-type: none"> <li>Cold riveted ladder frame with parallel side rails. HT540A high tensile weldable steel side-members</li> <li>Frame dimensions: Side rail (mm): 225 x 70 x 6.0 Rear frame width (mm): 840</li> </ul>	<ul style="list-style-type: none"> <li>Dual circuit air over hydraulic front and rear drum brakes.</li> <li>ABS</li> <li>ASR traction control.</li> <li>Hill Start Aid (HSA).</li> <li>Front drum size: 320 x 120 mm</li> <li>Rear drum size: 320 x 145 mm</li> <li>Spring park brake.</li> <li>Air controlled exhaust brake.</li> <li>Air dryer.</li> </ul>	<ul style="list-style-type: none"> <li>Power assisted recirculating ball steering.</li> <li>Turns lock to lock: 4.1</li> <li>Maximum angle: 52° (inside wheel) / 39° (outside wheel)</li> <li>ELECTRICAL SYSTEM</li> <li>24 volt electrical system.</li> <li>60 amp alternator.</li> <li>24 volt, 5.0 kW starter motor.</li> <li>2 x 115E41L (651 CCA) batteries.</li> <li>CAN interface, SAE J1939 protocol.</li> </ul>

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July19

## CAB AND INTERIOR

Cab Exterior	Cab Interior	Instruments and Controls
<ul style="list-style-type: none"> <li>All steel construction. High tensile steel for cab under-frame. Manual cab tilt to 45°, torsion bar assist. Complies with ECE-R29 cab strength standard.</li> <li>Liquid filled front &amp; rear cab mounts.</li> <li>Heavy duty non slip entry steps.</li> <li>90° opening internally reinforced front doors.</li> <li>Water spray suppression guards and front mud-flaps.</li> <li>Two speed windscreen wipers, with intermittent mode.</li> <li>Halogen multi-reflector headlamps incorporating turn signals. Additional door mounted integrated side indicator/coming lamps.</li> <li>Combination brake, turn, reverse and marker lamps, registration plate illumination lamps. Reverse alarm.</li> <li>Roof-mounted clearance lamps.</li> <li>Heated &amp; powered exterior main mirrors with flat glass &amp; additional powered convex "spot" mirrors.</li> <li>Body coloured grill &amp; steel bumper with fog lamps.</li> <li>STEEL TIPPER BODY</li> <li>Drop sides &amp; auto release two-way tailgate.</li> <li>Auto release body lock-down hook.</li> <li>Shovel rack. Rope rails. Non-slip side steps.</li> <li>20 second raise / 20 second lower time.</li> <li>Cubic volume: 3.8 m3</li> <li>Deck plate thickness: 6.0 mm</li> <li>Side / front / tail plate thickness: 3.2 mm</li> </ul>	<ul style="list-style-type: none"> <li>ISRI 6860 air-suspension driver's seat with pneumatic lumbar support, height, rake &amp; automatic weight adjustment.</li> <li>Front passenger adj bucket seat &amp; front centre seat with folding seat back.</li> <li>3-point seat-belts in outboard seating positions. Driver seatbelt with pre-tensioner. Outboard front passenger seatbelt fitted with pre-tensioner. Centre seat lap belts.</li> <li>Driver and outboard front passenger airbag.</li> <li>AMT model: Driver's footrest.</li> <li>Door and roof pillar entry assist grips.</li> <li>Vinyl floor covering. Driver &amp; passenger overhead storage shelf.</li> <li>Tilt/Telescopic adj steering column, soft feel urethane steering wheel with audio controls. Electric windows.</li> <li>Central locking with remote key-less entry &amp; immobiliser.</li> <li>Twin cup holders. 24V cigarette lighter.</li> <li>Front door mounted storage pockets &amp; driver's side ashtray.</li> <li>Centre console box &amp; storage tray. Fold down tray behind centre seat.</li> <li>Integrated air conditioning, heater/demister &amp; Fluorescent interior lamp</li> <li>Multimedia unit with 6.2" LCD touch screen. Android OS. DAB+ digital radio, integrated Bluetooth with voice recognition. Inbuilt media viewer. Internet radio via smartphone. 32GB file storage. USB &amp; auxiliary inputs.</li> <li>OPTIONS: (full details from your Isuzu dealer): Telematics system. Supports up to five camera inputs. One digital camera, Reversing sensors, tyre pressure monitoring. Wireless phone charger for Qi enabled phones.</li> </ul>	<ul style="list-style-type: none"> <li>DRIVER CONTROLS: Key- start/stop. HSA slow/fast engagement control and on/off switch.</li> <li>ASR on/off &amp; DPD regeneration.</li> <li>AMT model: AMT slow/fast gear engagement control, 1st gear start &amp; economy gear selection modes, gear selection control with R-N-D and sequential shift positions.</li> <li>Left side combination stalk: Windscreen wipers, washers &amp; exhaust brake.</li> <li>Right side combination stalk: Turn signals, headlamps. Cruise control (AMT only)</li> <li>INSTRUMENTATION: Speedometer and tachometer. Digital odometer with integrated dual trip-meter. Engine coolant temperature, fuel level and air pressure gauges.</li> <li>Warning lamps: Check engine, oil pressure, low coolant level, ABS, SRS airbag, alternator charge, service brakes, park brake, seat belt unfastened, low air pressure, low fuel level, cab lock.</li> <li>AMT model: Check AMT.</li> <li>Indicator lamps: HSA, warm up system, high beam, ASR, DPD status, exhaust brake, turn signals. AMT model: Econo-mode, 1st gear start, cruise control (AMT only).</li> <li>AMT model: Gear selection display.</li> <li>Multi-information display, (AMT only). Service intervals, vehicle systems status, instantaneous and average fuel consumption, DPD bar chart, hour-meter, voltmeter, time/day/date and includes 40-120km/h adjustable vehicle speed warning</li> </ul>

## WEIGHTS (KG)

Model Codes	Models	Ratings*		Loading Limits (at ground)*		Chassis Cab Tare Mass**		
		GVM	GCM	Front	Rear	Front	Rear	Total
FR0515	FRR500 Tipper	10,700	16,000	4000	7600	2,490	2,110	4,600
FR1116	FRR500 AMT Tipper	10,700	16,000	4000	7600	2,490	2,110	4,600

\* Vehicle ratings and front and rear mass limits are subject to regulatory requirements – Consult your dealer to select a specific vehicle to suit your requirements

\*\* Chassis cab as supplied from the factory including 10 litres of fuel

## DIMENSIONS (mm) \*Unladen condition

Models	WB	OAL	cab height*	FOH	ROH	outer rear track	cab width	RFA*	Turn Circle (m)
									Kerb to Kerb
FRR500	3790	6265	2595	1170	1195	2152	2200	915	12.0

## WARRANTY

Full vehicle warranty: 36 months or 150,000 kilometres whichever occurs first. All warranty is subject to terms and conditions as detailed in the Owner's Manual Service and Warranty Supplement

A policy of continuous improvement means that these specifications are subject to change without notice. Contact your Isuzu dealer or visit our website at [isuzu.co.nz](http://isuzu.co.nz) to confirm specifications. Images of vehicles are representative only and may differ slightly from the actual vehicle.

