



FRR 110-240 TIPPER



**WEIGHT RATINGS\*** 

GVM 11,000 kg GCM 16,000 kg ENGINE

**POWER** 177 kW @ 2,400 rpm **TORQUE** 765 Nm @ 1,600 rpm

TRANSMISSION

6 speed manual transmission (MT) 6 speed automatic transmission (AMT) \* Refer to back page for detailed weight rating information

ISUZU CARE		
	6 Year Standard Warranty	
WARRANTY	300,000 km / no hours stipulation	
	3 Year / Unlimited km Body Equipment	
ROADSIDE ASSIST	6 Year Roadside Support	
	24/7 Unlimited km	

SERVICE AGREEMENTS			
OPTIONAL SERVICE PACKAGES	ESSENTIALS	ESSENTIALS PLUS	TOTAL
SCHEDULED SERVICINGS	•	•	•
CONSUMABLES		•	•
ENGINE, TRANSMISSION & DRIVELINE			•
EXTRAS	After-hours Servicin	ng, Glass, Fuel Card, Pio	ckup - Dropoff









Subject to the conditions outlined in the IAL New Vehicle Warranty. For further information please visit isuzu.com.au or contact your local dealer.

INTELLIGENT SAFETY				
	Advanced Emergency Braking	(AEB)		
	Forward Collision Warning	(FCW)		
	Distance Warning System	(DWS)		
ACTIVE SAFETY	Lane Departure Warning	(LDW)		
ADVANCED DRIVER ASSISTANCE SYSTEMS	Electronic Stability Control	(ESC)		
(ADAS)	Anti Lock Braking System	(ABS)		
	Hill Start Aid	(HSA)		
	Cab Tilt Warning	(CTW)		
	Low light capable reversing camera			
	Driver & front passenger airbags			
CABIN OCCUPANT SAFETY SYSTEMS (COSS)	Driver & front left hand passenger seatbelt pretensioners			
	ECE-R29 cab with side anti-intrusion beams			
	Door mounted cornering lamps			

READY TO WORK			
	All steel body with drop sides. Auto release two-way tailgate		
	Auto release body lockdown hook		
	Shovel rack. LHS and RHS rope rails. Non-slip side steps		
STANDARD FEATURES	20 sec. raise/20 sec. lower time		
	Cubic volume: 3.8 m3		
	Deck plate thickness: 6.0 mm		
	Side/front/tail plate thickness: 3.2 mm		

ENGINE	
DESCRIPTION	Isuzu N-4HK1-TCH
TYPE	4 cylinder 16 valve SOHC
DISPLACEMENT	5,193 cc
COMPRESSION RATIO	16.5:1
BORE X STROKE	115mm x 125mm
POWER	177kW (240PS) @ 2,400 RPM (DIN NET)
TORQUE	765Nm @ 1,600 RPM (DIN NET)
INDUCTION	Low pressure turbocharger and high pressure Variable Geometry System (VGS) turbocharger sequentially operated and with air-to air intercooler.
FUEL INJECTION	Direct injection high pressure common rail system. Exhaust pipe fuel injection for DPD regeneration
EMISSION CONTROL	Cooled EGR with exhaust Diesel Particulate Diffuser (DPD) . ADR 80/03 (Japan PNLT) compliant.

		Isuzu	N-4HK1-	тсн			
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60 -						- 200	
50 -						100	
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ENGINE SPEED (RPM)							

TR	TRANSMISSION							
		Type: S	ingle pla	te with ai	r assisted	l hydrauli	control	
	CLUTCH	Clutch	plate dia	meter: 3	52 mm			
		Clutch	lining ar	<b>ea:</b> 1,164	-cm²			
		Descrip	tion: Isu	zu MZW-6	5P			
MT		Type: 6	speed w	ith synch	romesh o	n gears 2	-6	
	GEARBOX	Ratios:						
	CCARDOX	1st	2nd	3rd	4th	5th	6th	Rev
		6.615	4.095	2.358	1.531	1.000	0.722	6.615
		Other f	eatures:	Air assist	ed shift, f	ull pressu	ıre oil lubı	rication
		Descrip	tion: Isu	zu MZW-6	5P			
			speed wo		fully auto	matic and	clutchles	SS
	AMT	Ratios:						
	AIII	1st	2nd	3rd	4th	5th	6th	Rev
		6.615	4.095	2.358	1.531	1.000	0.722	6.615
		Other features: Integrated automated wet clutch and torque convertor (TC) with lock up						

AXLES			
	Description:	Isuzu F041	
FRONT	Туре:	Reverse Elliot I-beam	
	Capacity:	4,100 kg	
	Description:	Isuzu R077	
REAR	Туре:	Single drive	
	Capacity:	7,700 kg	
	Ratio:	4.875	

SUSPENSION		
FRONT	Туре:	Single stage alloy steel multi-leaf springs
	Other features:	Double acting hydraulic shock absorbers. Stabiliser bar.
REAR	Туре:	Multi-leaf main spring, multi leaf helper spring

BRAKES		
TYPE	Air over hydraulic dual circuit front and rear drum brakes.	
DIAMETER X WIDTH FRONT	320 x 120 mm	
DIAMETER X WIDTH REAR	320 x 145 mm	
PARK BRAKE	Spring park brake acting on all rear wheels	
AUXILIARY BRAKE	Air controlled exhaust brake	

STEERING		
TYPE	Power assisted recirculating ball	
GEAR RATIO	16.1 - 18.8:1	
TURNS LOCK TO LOCK	4.1	
WHEEL LOCK ANGLE	52° (inside wheel) / 39° (outside wheel)	

WHEELS & TYRES				
FRONT	Wheels:	17.5 x 6.75 six stud steel wheels		
	Tyres:	235/75R17.5 132/130M Michelin X Multi Z Tubeless		
	Steer axle tyre rating	4,000 kg		
	Wheels:	17.5 x 6.75 six stud steel wheels		
REAR	Tyres:	235/75R17.5 132/130M Michelin X Multi Z Tubeless		
	Drive axle tyre rating:	7,600 kg		
<b>Spare:</b> Spare wheel and tyre assembly supplied.				

CHASSIS FRAME				
TYPE	Cold rivetted ladder frame with parallel side rails.			
MATERIAL	HT540A steel sidemembers			
DIMENSIONS	Side rail (mm): 225 x 70 x 6.0 Rear frame width (mm): 840			



FUEL TANK		
TYPE Frame mounted steel fuel tank		
CAPACITY	200L	
FUEL CAP	Lockable	

ELECTRICAL SYSTEM				
TYPE	24 volt			
ALTERNATOR	90 amp			
STARTER MOTOR	5.0 kW			
BATTERY	$2 \times 115$ E41L (651 CCA) batteries connected in series			
CAN BUS PROVISION  Underdash CAN system access plug for connection to a Fleet Management System (FMS) (not supplied				

## CABIN SPECIFICATIONS & APPOINTMENTS

CABIN GENERAL FEATURES				
ENGINE ACCESS	Manual cab tilt to 45° with torsion bar assistance			
STEPS	Heavy duty anti slip steps			
DOORS	90° opening internally reinforced front doors			
MIRRORS	Heated & powered exterior main mirrors with flat glass and additional independantly adjustable convex "spot" mirrors			
WIPERS	Two speed windscreen wipers with intermittent wipe mode			
	LED main beam & halogen high beam headlamp assembly with position lamp			
EXTERIOR LIGHTING	Roof mounted clearance lamps			
	Front foglamps			
AUDIBLE WARNING	Reverse alarm			
GRILLE	Body coloured			
FRONT BUMPER	Body coloured air dam type			
SECURITY	Central locking with remote keyless entry & immobiliser			

CABIN INTERIOR				
SEATING	Isri 6860/875 NTS air suspension driver's seat			
	Front passenger adjustable bucket seat and front centre seat with folding seat back.			
SEATBELTS	3-point lap sash seatbelts in all outboard seating positions. Driver seatbelt integrated with driver seat Centre seat lap belts.			
STEERING COLUMN	Tilt/telescopic adjustable			
ENTRY ASSIST GRIPS	Door & roof pillar mounted			
DOOR WINDOWS	Electric control			
	Overhead compartments			
STORAGE	Twin cup holders			
SIORAGE	Centre console box & storage tray			
	Front door pockets			
POWER OUTLET	24V cigarette lighter			
AIRCONDITIONING	Manual control			
INTERIOR LIGHTING	Fluorescent lamp			

MYISUZU CO-PILOT AUDIO VISUAL UNIT				
SCREEN TYPE	10.1" 1080p High Definition with capacitive touch			
OPERATING SYSTEM	Android Automotive			
NAVIGATION	Truck tailored GPS based system + Live traffic and map content updates via smartphone link (live feed updates are provided for 3 years)			
RADIO	AM/FM/DAB+			
INTERNAL STORAGE CAPACITY	32GB			
	USB 3.0 socket			
SMARTPHONE INTEGRATION	Wi-Fi connectivity			
	Android Auto / Apple CarPlay compatible			
	Phone storage pocket			

DRIVER CONTROLS			
SAFETY SYSTEMS	AEB on/off, DWS on/off/sensitivity adjust, LDW on/off/sensitivity adjust, ESC on/off, HSA on/off/ sensitivity adjust		
	Idle speed control		
ENGINE	Cruise control		
	DPD manual regeneration switch		
TRANSMISSION (AMT ONLY)	Slow/fast gear engagement control, 1st gear start and normal/economy gear selection modes.		
	Gear selection control with R-N-D and sequential shift positions		
GENERAL CONTROLS	Headlamp on/off and levelling, windscreen wipers (2 speed and intermittent modes), washers, exhaust brake, turn signals		
	PTO engage switch		
	Tip body raise and lower lever with safety release mechanism.		

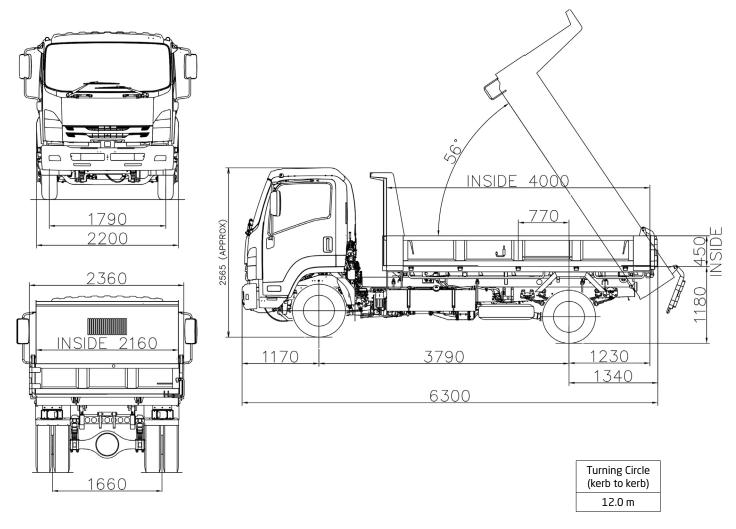
INSTRUMENTATION			
	AEB, FCW, DWS, LDW systems activation alerts		
	CTW indicator		
	Low engine oil level alert		
	Vehicle systems status		
MULTI INFORMATION	Low fuel level alert		
DISPLAY	Fuel consumption information		
	Service interval alerts		
	Hourmeter		
	Adjustable vehicle speed warning		
	PTO engaged indicator		
	Speedometer & tachometer		
GENERAL INSTRUMENTATION	Digital odometer with integrated dual tripmeters		
	Engine coolant temperature, fuel level and air pressure guages		

## FRR 110-240 TIPPER



WEIGHTS (kg)							
Manala	RATINGS*		LOADING LIMIT* (at ground)		WEIGHT #		
MODELS	GVM	GCM	FRONT	REAR	FRONT	REAR	TOTAL
FRR 110-240 TIPPER	11,000**	16,000	4,000	7,600	2,530	2,170	4,700
FRR 110-240 AMT TIPPER	11,000**	16,000	4,000	7,600	2,550	2,170	4,720

<sup>\*</sup> Vehicle ratings and front/rear weight limits are subject to government regulatory requirements and weight distribution analysis. Consult your Isuzu dealer to select the correct vehicle for your specific application.



PERFORMANCE (calculated - typical paved road)					
		GEARED SPEED <sup>^</sup> (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 110-240	at 11,000 kg GVM	107 km/h @ 2,400 RPM	49%	2,255 RPM	

<sup>\*</sup> Maximum speed achievable depends on vehicle frontal area as well as other factors. Consult your Isuzu dealer for more detailed information.

ORDER CODES		
Models	Codes	
FRR 110-240 TIPPER	FH-FRRZD-A22	
FRR 110-240 AMT TIPPER	FH-FRRZD-F22	

Subject to the conditions outlined in the IAL New Vehicle Warranty, Isuzu F series models carry a standard factory warranty which covers the owner for the first 72 months or 300,000km, no hours stipulation. All Isuzu warranties are subject to mandatory prescribed terms under Australian Consumer Law including consumer guarantees. Harsh Conditions variations to standard factory warranty may apply. For more details visit the Isuzu website at www.isuzu.com.au which explains Isuzu warranties in more detail, or alternatively contact your local Isuzu Truck dealer.

All warranties commence from date of initial delivery.

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