

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	
WARRANTY	6 Year Standard 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 Servicing, Glass, Fuel Card, Pickup - Dropoff		

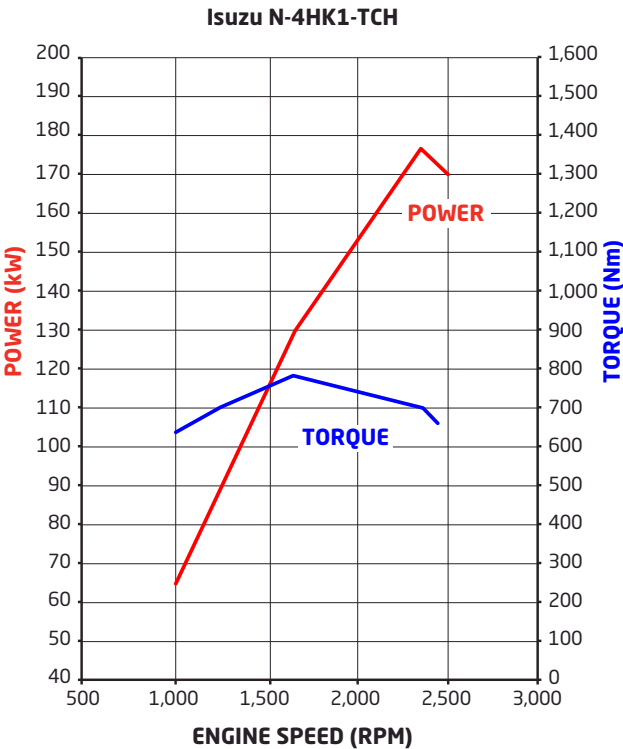
INTELLIGENT SAFETY		
ACTIVE SAFETY ADVANCED DRIVER ASSISTANCE SYSTEMS (ADAS)	Advanced Emergency Braking	(AEB)
	Forward Collision Warning	(FCW)
	Distance Warning System	(DWS)
	Lane Departure Warning	(LDW)
	Electronic Stability Control	(ESC)
	Anti Lock Braking System	(ABS)
	Hill Start Aid	(HSA)
	Cab Tilt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



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

READY TO WORK	
STANDARD FEATURES	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
	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.



TRANSMISSION								
MT	CLUTCH	Type: Single plate with air assisted hydraulic control						
		Clutch plate diameter: 352 mm						
		Clutch lining area: 1,164cm²						
	GEARBOX	Description: Isuzu MZW-6P						
		Type: 6 speed with synchromesh on gears 2-6						
		Ratios:						
		1st	2nd	3rd	4th	5th	6th	Rev
6.615	4.095	2.358	1.531	1.000	0.722	6.615		
Other features: Air assisted shift, full pressure oil lubrication								
AMT		Description: Isuzu MZW-6P						
		Type: 6 speed with both fully automatic and clutchless manual operation modes						
		Ratios:						
		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	
FRONT	Description: Isuzu F041
	Type: Reverse Elliot I-beam
	Capacity: 4,100 kg
REAR	Description: Isuzu R077
	Type: Single drive
	Capacity: 7,700 kg
	Ratio: 4.875

SUSPENSION	
FRONT	Type: Single stage alloy steel multi-leaf springs
	Other features: Double acting hydraulic shock absorbers. Stabiliser bar.
REAR	Type: 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
REAR	Wheels: 17.5 x 6.75 six stud steel wheels
	Tyres: 235/75R17.5 132/130M Michelin X Multi Z Tubeless
	Drive axle tyre rating: 7,600 kg
Spare: 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 x 115E41L (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 independently adjustable convex "spot" mirrors
WIPERS	Two speed windscreen wipers with intermittent wipe mode
EXTERIOR LIGHTING	LED main beam & halogen high beam headlamp assembly with position lamp
	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
STORAGE	Overhead compartments
	Twin cup holders
	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
RADIO	AM/FM/DAB+
INTERNAL STORAGE CAPACITY	32GB
SMARTPHONE INTEGRATION	USB 3.0 socket
	Wi-Fi connectivity
	Android Auto / Apple CarPlay compatible
	Phone storage pocket

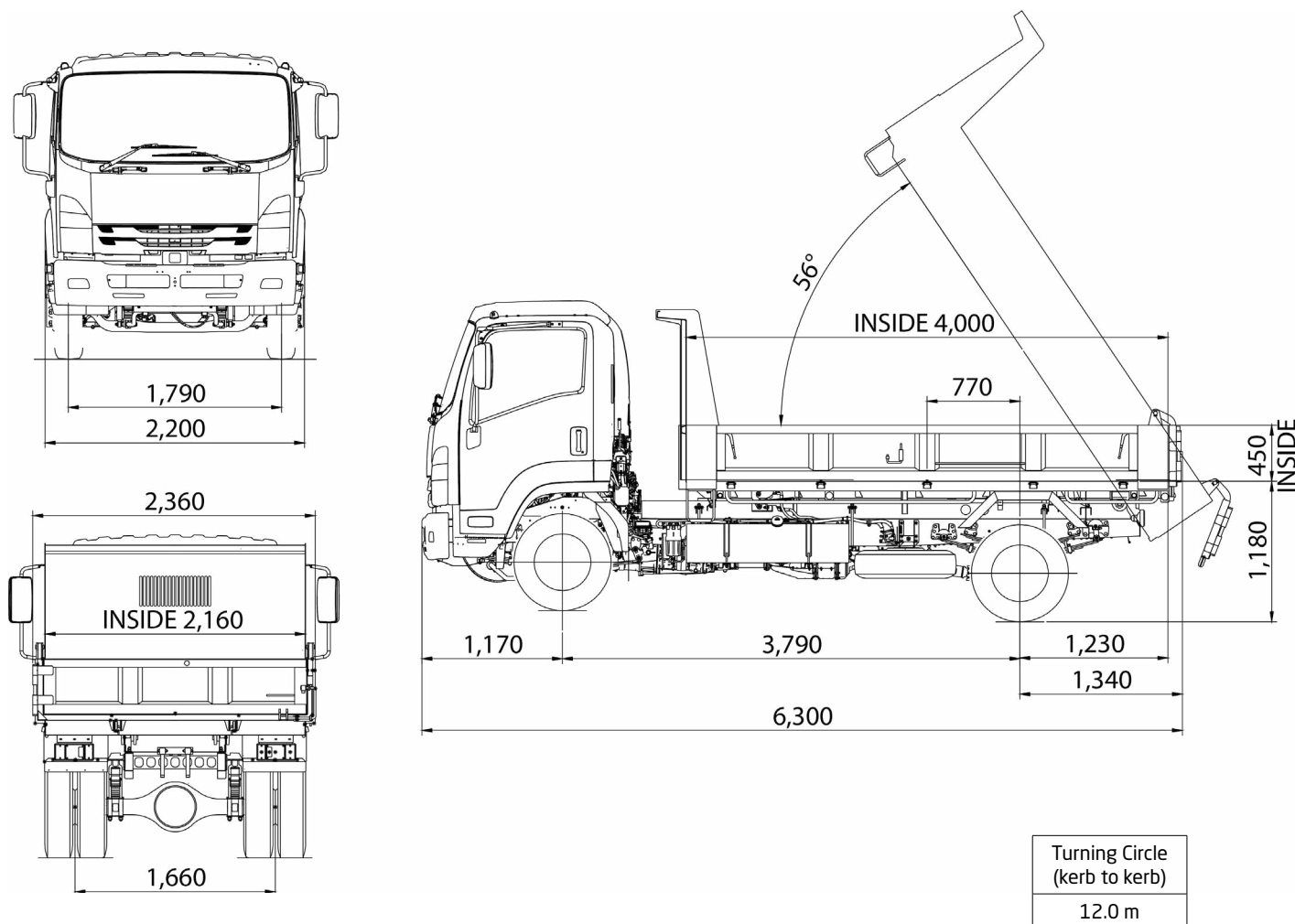
DRIVER CONTROLS	
SAFETY SYSTEMS	AEB on/off, DWS on/off/sensitivity adjust, LDW on/off/sensitivity adjust, ESC on/off, HSA on/off/sensitivity adjust
	Idle speed control
ENGINE	Cruise control
	DPD manual regeneration switch
TRANSMISSION (AMT ONLY)	Slow/fast gear engagement control, 1st gear start and normal/economy 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	
MULTI INFORMATION DISPLAY	AEB, FCW, DWS, LDW systems activation alerts
	CTW indicator
	Low engine oil level alert
	Vehicle systems status
	Low fuel level alert
	Fuel consumption information
	Service interval alerts
	Hourmeter
	Adjustable vehicle speed warning
	PTO engaged indicator
GENERAL INSTRUMENTATION	Speedometer & tachometer
	Digital odometer with integrated dual tripmeters
	Engine coolant temperature, fuel level and air pressure gauges

FRR 110-240 TIPPER

WEIGHTS (kg)							
MODELS	RATINGS*		LOADING LIMIT* (at ground)		WEIGHT #		
	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

* 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~ (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

* 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.

ISUZU AUSTRALIA LIMITED ABN 97 006 962 572 ("IAL"). The information in this spec sheet was correct at time of printing, but all measurements, specifications and equipment are subject to change without notice. Some equipment may have been changed and/or is available at extra cost. IAL may make changes at any time without notice, in prices, colours, materials, equipment and models. IAL makes all reasonable attempts to ensure the availability of all vehicles and equipment. The information in this spec sheet is general in nature. Your Isuzu dealer can confirm all measurements, specifications and vehicle / equipment availability upon request. To the extent permitted by the law, IAL is not liable to any person as result of reliance on the content of this spec sheet.