

# ISUZU

# NPR 300 Tipper



## ISUZU

**ASSIST**

24 hour (3 year) Isuzu Assist program standard on all new Isuzu N Series models (refer to your Isuzu Dealer for details).

### AT A GLANCE

GVM	6,500 kg
GCM	10,000 kg
Engine Type	Isuzu SiTEC 150
Displacement	5.2 L
Power	110 kW @ 2,600 rpm
Torque	404 Nm @ 1,500 – 2,600 rpm
Wheelbase	3,365 mm

# Driveline and Chassis Specification

## Engine SiTEC 150 (ISUZU 4HK1-TCN)

**Type:** 4 cylinder 16 valve SOHC direct injection diesel.  
Turbocharged and air-to-air intercooled.  
Adjustable roller type rocker arms.

**Displacement:** 5,193 cc  
**Compression Ratio:** 18.5:1  
**Bore x Stroke:** 115 x 125 mm  
**Max power (80/1269/EEC-NET):** 110 kW (148 HP) @ 2,600 RPM  
**Max torque (80/1269/EEC-NET):** 404 Nm (298 lb.ft) @ 1,500 – 2,600 RPM  
**Emissions Standard:** ADR 80/00 (Euro III)

### Lubrication System

- Plate type cooler. 13 L capacity. Combined full flow main and bypass filter.

### Cooling System

- 6 blade, 440 mm diameter cooling fan with thermostatically controlled viscous clutch. Dual drive belts and thermostats.
- Radiator frontal area: 3,227 cm<sup>2</sup>
- Coolant capacity: 14 L

### Air Intake System

- Vertical air intake mounted on back of cab. 220 x 320 mm air cleaner element.
- 500 x 370 mm air-to-air intercooler.

### Fuel System

- Denso common rail fuel injection. Combined fuel filter and water separator.
- 125 L steel tank.

## Clutch

- Auto adjusting hydraulic control with vacuum assistance.
- Single plate 325 mm diameter.
- Total lining area: 966 cm<sup>2</sup>

## Transmission

### Isuzu MYY-6P

- 6 speed manual.
- Synchromesh on gears 1-6
- Gear ratios (: 1)

1st	2nd	3rd	4th	5th	6th	Rev
5.979	3.434	1.862	1.297	1.000	0.774	5.701

## Axles

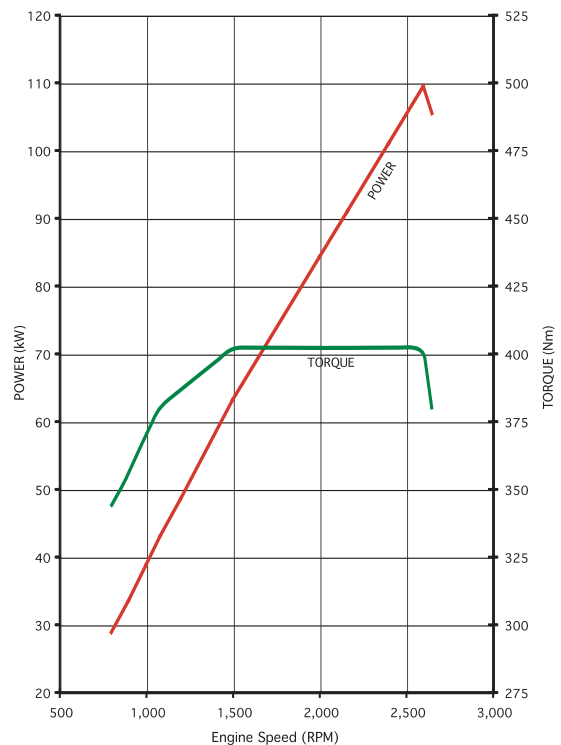
### Front: Isuzu Fo31

- Reverse Elliot I-beam. 3,100 kg capacity.

### Rear: Isuzu Ro50

- Full floating Banjo type. Four differential pinions. 5,000 kg capacity.
- Drive ratio: 4.300:1

SiTEC 150  
Maximum Power : 110 kW @ 2,600 RPM  
Maximum Torque : 404 Nm @ 1,500-2,600 RPM



ISUZU SiTEC 150 (4HK1-TCN) ENGINE PERFORMANCE CHART

## Suspension

### Front

- Single stage alloy steel multi-leaf springs.
- Nominal size: 1,300 x 70 mm
- Total spring capacity (at ground): 2,770 kg
- Double acting, hydraulic shock absorbers. Stabiliser bar.

### Rear

- Multi-leaf main spring, multi-leaf helper spring.
- Nominal size: 1,350 x 70 mm
- Total spring capacity (at ground): 4,500 kg
- Double acting, hydraulic shock absorbers.

## Brakes

- Auto-adjusting front disc and rear drum brakes with dual circuit hydraulic control, vacuum assistance and load sensing proportioning valve.
- Standard ABS and ASR traction control.
- Hill Start Aid (HSA).
- Front disc diameter: 293 mm
- Rear drum diameter: 320 mm
- 190 mm diameter drum park brake mounted on rear of transmission.
- Vacuum controlled exhaust brake.

## Steering

- Power assisted recirculating ball steering.
- Gear ratio: 20.9:1
- Turns lock to lock: 5.4

## Wheels and Tyres

- 17.5 x 6.00 Six stud wheels.
- Front: 215/75R 17.5 126/124M Michelin XZE2 Tubeless.
- Rear: 215/75R 17.5 126/124M Michelin XDE2 Tubeless.
- Maximum tyre rating: 1,700 kg per tyre (single tyres).  
1,600 kg per tyre (dual tyres).
- Spare wheel and tyre assembly supplied.

## Axle Load Summary

	Front	Rear
Axle Capacity (kg):	3,100	5,000
Spring Capacity (kg):	2,770	4,500
Tyre Capacity (kg):	3,400	6,400
<b>Limit (kg):</b>	<b>2,770</b>	<b>4,500</b>

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. JIS-SAPH440 weldable steel. Parallel side rails and rivetless top flange.
- Frame dimensions  
Side rail (mm): 216 x 70 x 6.0  
Rear frame width (mm): 850

## Tipper Body

- All steel body with drop sides. Auto release two-way tailgate.
- Shovel rack and tool box. LHS and RHS rope rails. Non-slip side steps.
- 20 sec raise/20 sec lower time.
- Cubic volume: 2.2 m<sup>3</sup>
- Deck plate thickness: 3.6 mm
- Side/front/tail plate thickness: 2.3 mm

## Electrical System

- 24 Volt electrical system.
- 24 Volt, 60 Amp alternator.
- 24 Volt, 4.5 kW starter motor.
- 2x 80D26R (582CCA) batteries connected in series.

# Cabin Specifications and Appointments

## Cab Exterior

- All steel cab with side door impact door protection beams. Outer body panels galvanised and treated with corrosion resistant primer.
- Cab built to comply with ECE-R29 crash safety tests.
- Manual cab tilt to 45°.
- Access to fluid checkpoints without tilting cab.
- Silicone filled front cab mounts, tuned rubber rear mounts.
- Body coloured impact resisting polycarbonate front bumper with steel backing frame.
- Heavy duty non slip entry steps.
- 90° opening internally reinforced doors.
- Water spray suppression guards, and front mudflaps.
- Laminated windscreen.
- Two speed windscreen wipers, with intermittent wipe mode.
- Single piece halogen multi-reflector headlamps incorporating turn signals.
- Combination brake, turn, reverse and marker lamps, registration plate illumination lamps. Extended wiring harness. Reverse alarm.
- Roof-mounted clearance lamps.
- "West Coast" type rear view mirrors. Large flat mirror glass with additional, independently adjustable convex "spot" mirror on both sides.

## Cab Interior

- Wide contoured driver's bucket seat, lumbar support, reclining back, fore-aft adjustment. Two person passenger bench seat, with folding seat back. Seat tilts for access to engine. Durable, fire resistant cloth seat facing.
- 3-point, lap sash seatbelts with emergency locking belt retractors in all outboard seating positions.
- Door and "A" pillar entry assist grips.
- Full interior trim, padded roof lining, and vinyl floor mats. Windscreen header storage shelf.
- Tilt/Telescopic adjustable steering column, soft feel urethane steering wheel.
- Electric windows.

- Central locking with remote keyless entry.
- Twin cup holders. Cigarette lighter.
- Centre console box with two storage trays. Fold down storage tray behind centre seat backrest.
- Standard fully integrated air conditioning and heater/demister with 4-speed fan and outlets for windscreen, side windows, face and floor.
- Fore-aft adjustable roof vent.
- Interior lamp with On/Door/Off switch activated by either door.
- Two speaker radio/CD player with clock. CD player compatible with standard (WAV)/MP3/WMA music file types.
- DIN sized compartment below radio 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 switch.
- **Left side combination stalk:** Windscreen wipers, washers and exhaust brake.
- **Right side combination stalk:** Turn signals and headlamps.
- PTO engage/disengage lever.
- Tip body raise and lower lever with safety release mechanism and HSA reset switch.
- Optional cruise control.

## Instrumentation

- **Gauges:** Electronically driven speedometer and tachometer. Digital odometer with integrated dual tripmeter. Engine coolant temperature and fuel level gauges.
- **Warning lamps:** Low battery charge, brake failure, low fuel level, glow plug/engine malfunction, low oil pressure, water separator, PTO engaged.
- **Indicator lamps:** Turn signals, parking brake, high beam, exhaust brake engaged.

## Performance (Calculated)

NPR 300 Tipper	
Max Geared speed:	111 km/h @ 2,650 rpm
Gradeability (lowest gear):	39% at 6,500 kg GVM
Gradeability (top gear at 100 km/h):	2.1% at 6,500 kg GVM
Engine speed (top gear at 100 km/h):	2,390 rpm

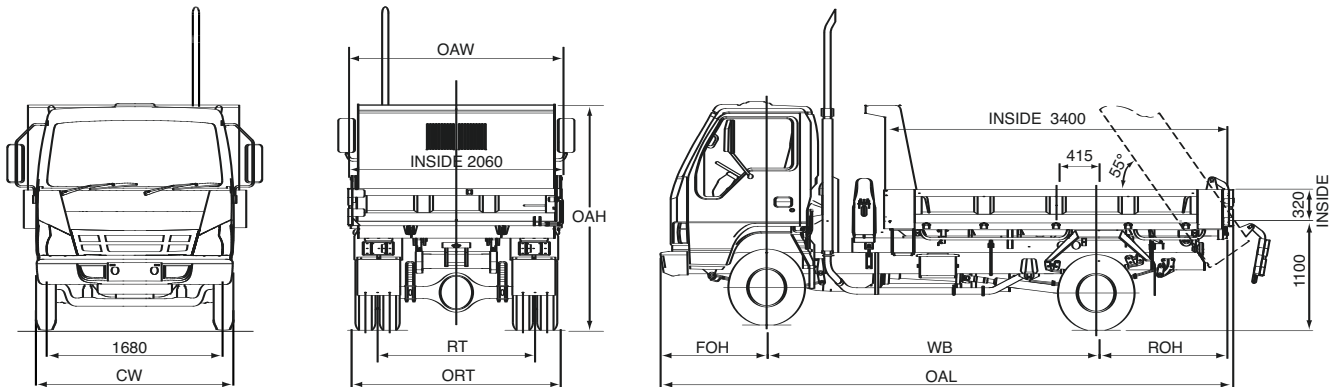
Performance figures quoted are representative only and based on typical dimensions, body styles and weights. Please consult your Isuzu dealer for an estimation based on your specific application.

## Ratings, Dimensions and Order Codes

Models	Ratings (kg)		Tare Mass* (kg)			Dimensions (mm)									Turn Circle KERB to KERB
	GVM	GCM	TOTAL	FRONT	REAR	WB	OAL	OAW	OAH	FOH	ROH	RT	ORT	CW	
300 Tipper	6,500	10,000	3,470	1,825	1,645	3,365	5,845	2,250	2,245	1,085	1,285	1,650	2,120	1,995	12.4 m

**TOWING CAPACITY** • Unbraked trailer: 750 kg • Braked trailer: 3,500 kg

#Estimated vehicle mass with oil, water and fuel tank containing 10 litres of fuel and including spare wheel and tools.



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

Model	Standard
Order Code	NPR 300 Tipper
	8NS02-PBE (MU5) (TP3)

## ISUZU New Truck Warranties

Standard Truckpower Warranty*			Truckpower Extended Warranty Options#		
New Vehicle	3 years	100,000 km	4 years 200,000 km	5 years 250,000 km	6 years 300,000 km
Drivetrain	3 years	100,000 km			
Cab Corrosion	3 years	unlimited			

\* Subject to the conditions outlined in the IAL New Vehicle Warranty, the Isuzu NPR models carry a standard factory warranty which covers the owner: (i) for the entire vehicle, for the first 36 months or 100,000 km (whichever comes first). (ii) for the drivetrain, which runs concurrently, for 36 months or 100,000 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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