

# N-SERIES

## NPS 300 4X4 MODELS

Preliminary Specifications

Date of issue: September 2010

ISUZU N-SERIES	NPS 300 4X4 CREW DUAL WHEEL APPLICATION	NPS 300 4X4 SWA CREW SINGLE WHEEL APPLICATION
<b>ENGINE</b>		
Model	4HK1-TCN	4HK1-TCN
Type	Turbocharged & Intercooled	Turbocharged & Intercooled
Fuel Injection	Common Rail	Common Rail
No. of Cylinders	4	4
Bore x Stroke (mm)	115 x 125	115 x 125
Displacement (cm <sup>3</sup> )	5,193	5,193
Compression Ratio (:1)	18.5	18.5
Output (kW @ r/min)	110 @ 2,600	110 @ 2,600
Torque (Nm @ r/min)	404 @ 1,500	404 @ 1,500
<b>CLUTCH</b>		
Make / Model	EXEDY	EXEDY
Type	Single Dry Plate	Single Dry Plate
Diameter (mm)	325	325
Operation	Air Assisted Hydraulic Control	Air Assisted Hydraulic Control
<b>TRANSMISSION</b>		
Make / Model	MY5T	MY5T
1 <sup>st</sup> Gear Ratio (:1)	5.315	5.315
2 <sup>nd</sup> Gear Ratio (:1)	3.053	3.053
3 <sup>rd</sup> Gear Ratio (:1)	1.655	1.655
4 <sup>th</sup> Gear Ratio (:1)	1.000	1.000
5 <sup>th</sup> Gear Ratio (:1)	0.721	0.721
Reverse Gear Ratio (:1)	5.068	5.068
Transfer Box		4WD
High Ratio (:1)		1.000
Low Ratio (:1)		1.842
<b>PERFORMANCE</b>		
Maximum Speed (km/h)	101 @ 2,600 rpm	110 @ 2,600 rpm
Gradeability (%) @ GVM in 4X4 (Peak Torque)	80 (1st Gear Low Ratio)	80 (1st Gear Low Ratio)
<b>SUSPENSION</b>		
Front	Single stage alloy steel multi leaf springs. Double acting hydraulic shock absorbers. Stabiliser bar.	
Rear	Multi leaf spring, multi leaf helper spring. Double acting hydraulic shock absorbers.	
<b>BRAKES</b>		
System	VAC / HYDRAULIC	VAC / HYDRAULIC
Park Brake	Transmission	Transmission
Front	Drum	Drum
Rear	Drum	Drum
ABS	-	-
Auxiliary	Exhaust Brake	Exhaust Brake
Total Friction Area (cm <sup>2</sup> )	560	560
<b>STEERING</b>		
Operation	Power assisted recirculating ball steering.	
Ratio (:1)	18.8 – 20.9	18.8 – 20.9
Turns to lock	3.7	
Maximum angle	38 <sup>0</sup> (inside wheel) / 30 <sup>0</sup> (outside wheel)	
<b>CAB</b>		
Control	Forward	Forward
Tilt (Manual)	Yes	Yes
<b>FUEL</b>		
Capacity (litres)	100	100
<b>ELECTRICAL SYSTEM</b>		
System Voltage (V)	24/50A	24/50A

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<b>FRONT AXLE</b>		
Type	Full floating Banjo type. Birfield outer joints and manual lock front hubs.	
<b>REAR AXLE</b>		
Final Drive Ratio	Full floating Banjo type. Four pinion limited slip differential. 6,600kg capacity.	
Final Drive Ratio (front/rear) (:1)	5.125	5.125
<b>WHEELS &amp; TYRES</b>		
Type	Radial	Radial
Tyre Size (Front/Rear) – on/off road	7.50R16-12PR	10R17.5
Wheel Size (Front/Rear) – on/off road	16x6.0GS	17.5x7.5
<b>DIMENSIONS</b>		
OL – Overall Length	5,985	5,985
OW – Overall Width	1,995	1,995
OH – Overall Height	2,455	2,480
WB – Wheelbase	3,365	3,365
FOH – Front Overhang	1,110	1,110
ROH – Rear Overhang	1,510	1,510
BW – Rear Axle Width	2,115	2,115
FT – Front Track	1,685	1,785
RT – Rear Track	1,650	1,785
EH – Chassis Rear End Height	975	1,000
CWF – Front Chassis Width	850	850
CWR – Rear Chassis Width	850	850
HH – Rear Ground Clearance	210	235
CE – Cab to Chassis End	3,301	3,301
CA – Cab to Axle	1,791	1,791
GP – Minimum Body Gap	225	225
<b>MASS DATA</b>		
Manufacturer's GVM	6,200	6,200
Permissible Gross Mass (V)	6,200	6,200
Manufacturer's GCM	9,500	9,500
Permissible Combination Mass (D/T)	9,500	9,500
Front Axle Tare Mass	2,000	2,020
Rear Axle Tare Mass	1,050	1,000
Total Tare Mass	3,050	3,020
Gross Axle Mass Load – Front (GA1)	2,800	2,800
Gross Axle Mass Load – Rear (GA2)	6,600	6,600
Permissible Axle Load – Front (A1)	2,800	2,800
Permissible Axle Load – Rear (A2)	4,976	4,240
Tyre Capacity – Front	2,828 @ 6.3 BAR	4,240 @ 8.0 BAR
Tyre Capacity – Rear	4,978 @ 6.3 BAR	4,240 @ 8.0 BAR
Approx. Body & Payload	3,150	3,180
Approach Angle (4x4 specific)	31.8 <sup>0</sup>	32.6 <sup>0</sup>
Break-over Angle (4x4 specific)	148.8 <sup>0</sup>	149.5 <sup>0</sup>
Departure Angle (4x4 Specific)	24.5 <sup>0</sup>	25.1 <sup>0</sup>

## CABIN SPECIFICATIONS AND APPOINTMENTS

### DRIVER CONTROLS

- Key-operated engine start/stop and steering lock. Engine idle speed control.
- High/low range and 4WD engage hubs manually.
- Electronic 4X4 engaged.
- Left side combination stalk: windscreen wipers, washers and exhaust brake.
- Right side combination stalk: turn signals and headlamps.

### INSTRUMENTATION

- Electronically driven speedometer and tachometer. Digital odometer with integrated dual tripmeter. Engine coolant temperature and fuel level gauges.
- Warning lamps: check engine, oil pressure, alternator charge, service brakes, park brake, seatbelt unfastened, low fuel level.
- Indicator lamps: warm up system, high beam, exhaust brake, low range engaged, 4WD engaged, turn signals.

Disclaimer: The information contained in this specification sheet was correct at time of going to press and is subject to change.

**ISUZU**  
TRUCKS  
*For the long run*