# **ISUZU**

# **NQR 450**





AT A GLANCE					
GVM	8,700 kg				
GCM	12,200 kg				
Engine Type	Isuzu SiTEC 175				
Displacement	5.2 L				
Power	129 kW @ 2,600 rpm				
Torque	500 Nm @ 1,500 – 2,000 rpm				
Wheelbase	3,365 – 4,175 mm				
UPGRADE OPTION					
SRS Pack	Driver's Airbag				

# **Driveline and Chassis Specification**

# **Engine SiTEC 175 (ISUZU 4HK1-TCS)**

Type: 4 cylinder 16 valve SOHC direct injection diesel.

Turbocharged and air-to-air intercooled. Adjustable roller type rocker arms.

Displacement:5,193 CCCompression Ratio:18.5:1

Bore x Stroke: 115 x 125 mm

**Max power (80/1269/EEC-NET):** 129 kW (173 HP) @ 2,600 RPM **Max torque (80/1269/EEC-NET):** 500 Nm (369 lb.ft) @ 1,500 -

2,000 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**

- 7 blade, 500 mm diameter cooling fan with thermostatically controlled viscous clutch. Dual drive belts and thermostats.
- Radiator frontal area: 3,670 cm²
- · Coolant capacity: 14 L

## **Air Intake System**

- Vertical air intake mounted on back of cab. 220 x 320 mm air cleaner element.
- 550 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 cm²

#### **Transmission**

#### Isuzu MZZ-6U

- · 6 speed manual.
- Synchromesh on gears 1-6
- PTO provision on LHS of transmission case.
   PTO drive from counter gear.
- Gear ratios (: 1)

1st 2nd 3rd 4th 5th 6th Rev 6.369 3.767 2.234 1.442 1.000 0.782 6.369

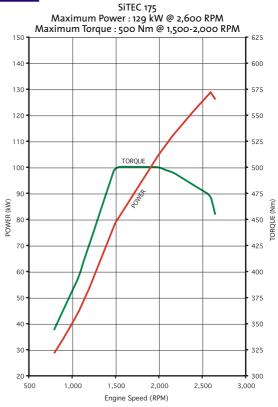
## **Axles**

#### Front: Isuzu Fo31

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

#### Rear: Isuzu Ro66

- Full floating Banjo type with oil filled hubs. Four differential pinions. 6,600 kg capacity.
- Drive ratio: 4.555:1



#### ISUZU SITEC 175 (4HK1-TCS) ENGINE PERFORMANCE CHART

# **Suspension**

#### **Front**

- · Single stage alloy steel multi-leaf springs.
- Nominal size: 1,300 x 70 mm.
- Total spring capacity (at ground): 3,650 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): 6,660 kg.
- Double acting hydraulic shock absorbers. Stabiliser bar.

# **Brakes**

- Auto-adjusting front disc and rear drum brakes with dual circuit hydraulic control, hydraulic pressure assistance and load sensing proportioning valve.
- Standard ABS, Hill Start Aid (HSA) and ASR traction control.
- Front disc diameter: 363 mm.
- Rear drum diameter: 370 mm.
- 203 mm diameter drum park brake mounted on rear of transmission.
- · Vacuum controlled exhaust brake.

# **Wheels and Tyres**

- 19.5 x 6.00 Six stud wheels.
- 225/70R 19.5 LR F Michelin XZE Tubeless.
- Maximum tyre rating: 1,650 kg per tyre (single tyres).

1,550 kg per tyre (dual tyres).

• 1 frame mounted spare wheel and tyre assembly.

# **Axle Load Summary**

Axle Capacity (kg): 3,100 6,600
Spring Capacity (kg): 3,650 6,660
Tyre Capacity (kg): 3,300 6,200
Limit (kg): 3,100 6,200

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.

# **Steering**

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

#### **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

## **Electrical System**

- 24 Volt electrical system.
- 24 Volt, 60 Amp alternator.
- 24 Volt, 4.5 kW starter motor.
- 2x 8oD26R (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.
- · Four point tuned rubber cab mounting.
- 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.
- SRS Pack: Driver's airbag.
- 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 Eurovox Radio/CD player with digital anti skip memory.
- Optional 10 stack CD player.
- 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.
- 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.
- Indicator lamps: Turn signals, parking brake, high beam, exhaust brake engaged.



# **Performance (Calculated)**

	NQR 450 Medium/Long
Max Geared speed:	111 km/h @ 2,650 rpm
Gradeability (lowest gear):	38% at 8,700 kg GVM
Gradeability (top gear at 100 km/h):	o.8% (2.5 x 2.6 m van body at 8,700 kg GVM)
Engine speed (top gear at 100 km/h):	2,385 rpm

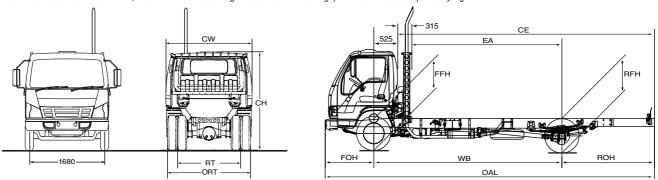
Performance figures quoted are representative only and based on typical dimensions, body styles and weights. Please consult your Isuzu dealer for an estimation based on your specific application.

# **Ratings, Dimensions and Order Codes**

Models	Rating	gs (kg)	Tare Mass# (kg)					Dimensions (mm)						Turn Circle				
	GVM	GCM	TOTAL	FRONT	REAR	WB	OAL	FOH	ROH	EA	CE	RT	ORT	СН	CW	<b>FFH</b> UNLADEN	<b>RFH</b> UNLADEN	KERB to KERB
450 Medium	8,700	12,200	2,775	1,760	1,015	3,365	5,955	1,085	1,505	2,525	4,345	1,680	2,160	2,285	1,995	710	815	12.4
450 Long	8,700	12,200	2,800	1,765	1,035	4,175	7,320	1,085	2,060	3,335	5,710	1,680	2,160	2,280	1,995	710	815	14.8

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

# Estimated mass of cab/chassis with oil, water and fuel tank containing 10 litres of fuel and including spare wheel and tools. SRS pack add 30 kg.



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	SRS Pack		
	der Codes	NQR 450 Medium	8NUo2-QBM	8NU02-QSM		
Order Cod	der Codes	NOR 450 Long	8NVo2-OBL	8NVo2-OSL		

# **ISUZU New Truck Warranties**

Standard 1	Truckpower W	arranty*	Truckpower Extended Warranty Options*				
New Vehicle	3 years	100,000 km	4 voors	E VOORS	6 years		
Drivetrain	3 years	100,000 km	4 years 200,000 km	5 years 250,000 km	300,000 km		
Cab Corrosion	3 years	unlimited	_ = = =,=		, , , , , , , , , , , , , , , , , , , ,		

<sup>\*</sup> Subject to the conditions outlined in the I-GM New Vehicle Warranty, the Isuzu NQR 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.

ISUZU-GENERAL MOTORS AUSTRALIA LTD A.C.N. 006 962 572. PLEASE NOTE: as the policy of I-GM is one of continual product improvement, all specifications and equipment are subject to change without notice. No I-GM dealer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any I-GM product or in connection with the supply of any I-GM product which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by I-GM in its published sales literature, and the company accepts no liability for any such unauthorised action. I-GM has franchised dealers in many parts of Australia, for the sale of service, parts and the provision of service to the owners of I-GM products. Every endeavour is made to ensure that such dealers carry adequate stocks of service parts and are equipped to provide satisfactory service, but makes no promise, other than that contained in the I-GM new vehicle warranty, that such parts or service facilities will be available or available at any specific location or at any particular time. A word about this specification sheet. We have tried to make it as comprehensive and factual as possible. However, since the time of printing some of the information you will find here may have been updated. Also, some of the equipment shown or described through this specification sheet may have been changed and/or is available at extra cost. And the right is reserved to make changes at any time without notice, in prices, colours, materials, equipment and models. Your I-GM dealer has details and before ordering, you should ask him/her to bring you up to date.

October 2005. ARK/IGM 0175



<sup>#</sup> 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.