

ISUZU

NQR 450



NQR 450 Long SRS pack pictured



ISUZU
RELIABILITY IS EVERYTHING

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 cc
Compression 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 |

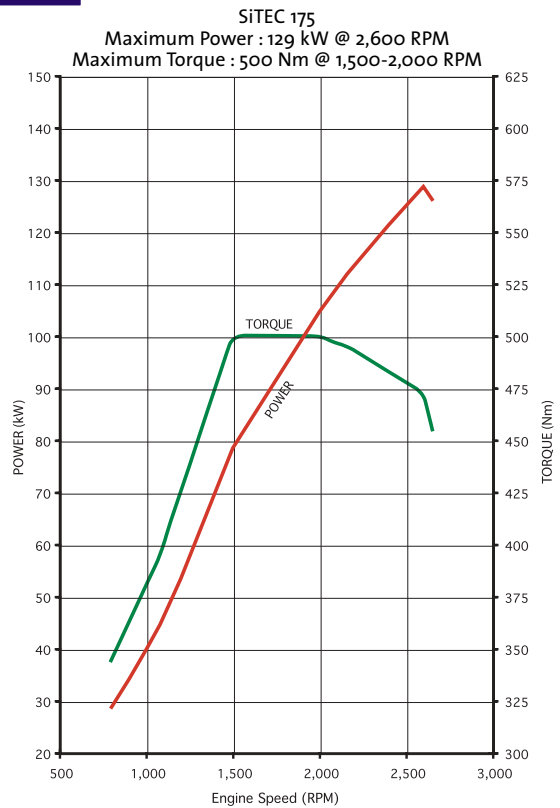
Axles

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

	Front	Rear
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 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.
- 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.

