



Isuzu SHZ 451S



Chassis/Cab. Tandem Drive

GVM 23,000kg (50,600lb) GCM 38,000kg* (74,957lb) with 10.00x20
(14 PLY FRONT, 12 PLY REAR)

Engine:

Model: Isuzu 6 RAIT Turbocharged Diesel.
Type: 4-cycle overhead valve, in line, direct injection with Turbocharged AiResearch model TV61.
Dual inlet & exhaust valves. Roller tappets.
Number of cylinders: 6.
Bore and stroke: 135 mm x 140 mm.
Displacement: 12023 cm³ (723.5 CID).
Max. net power: Din 190 kW (255 bhp) @ 2300 rpm.
Max. net torque: Din 975 Nm (720 lb/ft) @ 1300 rpm.
Compression ratio: 15.5:1.
RAC rating: 53.27

Air Cleaner:

Donaldson Cyclopac, 2 stage type with vertical air intake (Model FTG 15) with safety element. Restriction warning.

Axle, Front:

Capacity: 6000 kg. Type: Reversible Elliott 'I' Beam.

Axle, Rear Tandem:

Capacity: 21000 kg total. Type: Banjo, fully floating, single speed hypoid. Axle ratio: 4.875:1 (420mm (16.5") dia. gear). Intermediate differential lock.

Brakes, Service:

Type: Full air leading and trailing. Dual circuit. "S-Cam". Total lining area 0.7188 sq. metre. Exhaust brake. Airtank auto drain cock.

Brake, Parking/Emergency:

Type: Spring/air.

Clutch:

Type: Hydraulically operated. Spicer angle spring 14" model AS2-1402 twin plate.

Cooling System:

Radiator: Tube and corrugated fin. Frontal area 0.5280 sq. metres Core, 70mm Thick. 610mm dia. 7 blade fan.

Drive Line:

Type: Tubular shafts, needle bearing universal joints.

Electric System:

Battery: 2 x 12 volt, capacity 150 amp. hrs. each battery. Neg. earth. Alternator: 35 amp. Starter: 24 volt.

Frame:

Type: Ladder type, double channel section. Dimensions (outside): Depth 320 mm. Width 95 mm. Thickness 8 mm. 4 cross members.

Springs:

Type: Semi-elliptical, alloy steel leaf. Trunnion type rear suspension.
Size: Length x width — No. of leaves.
Front: 1450 mm x 80 mm -9 mm.
Front Susp. cap. @ ground 7400 kg.
Rear: 1300 mm x 90 mm -6
Rear Susp. cap. @ ground 23,200 kg.
Shock absorbers: Front — Hydraulic double acting telescopic.

Steering:

Type: Recirculating ball with integral power assisted. Ratio: 22.2:1. Wheel diameter: 503 mm.

Transmission:

Type: Fuller RTO-11613 Roadranger, 13-speed.

Ratios (to 1):

Lo	1st	2nd	3rd	4th	5th	5th O/D		
12.56	8.32	6.18	4.54	3.38	2.46	2.15		
6th	6th O/D	7th	7th O/D	8th	8th O/D	Rev.	Low Rev.	
1.83	1.60	1.34	1.17	1.00	.87	3.89	13.13	

Engine Lubrication:

Type: Pressure feed with full flow paper element and partial flow depth type oil filter. Oil cooler. Restriction warning.
Capacity: 25 litres including filter.

Fuel System:

Injection pump: Diesel Kiki in-line P-type with mechanical limiting speed governor.
Fuel tank capacity: 200 litres.

Wheels and Tyres:

Dual rear wheels: Tyres: 10.00 x 20 — 14 ply front and spare. 10.00 x 20 — 12 ply rear. Wheels and rims: 11/7.50 V x 20, 8 stud, 165 mm offset. Spare tyre and wheel on carrier — lifting type.

Standard Equipment:

Tilt cab. Sleeper bed with curtain. Laminated windshield glass. Tempered side and rear glass. Seat belts for two. Suspension seat — driver's side. Fuel shut-off device. Heater/demister. Radio. Glove compartment. Ashtray. Interior rear view mirror. Exterior West Coast type rear view mirrors. Warning lamps — high beam, oil pressure, air pressure, parking brake air pressure, exhaust brake indicator flashing light. Oil filter. Tachometer. Tachograph. Dual tone horn. Two speed triple blade windshield wipers and washers. General hand tools including hydraulic jack. Kilometre speedometer/odometer. Tyre inflation device. Hazard warning lights. Engine over-run warning device. Cigar lighter. Fuel sedimentor with warning lamp. Over-heat warning lamp. Radiator coolant level warning lamp. Air cleaner dust warning lamp.

Application:

Tractor — Low Loader.
Tractor — Tandem or Tri Axle Trailer.
Tractor — Articulated Tipper.
Truck and trailer combination.
Tipper Truck.

GMH 12/20 Warranty:

Every Isuzu is protected by the GMH Warranty which covers your vehicle for the first 12 months or 20,000 kilometres.

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Reliability is everything.

DIMENSIONS/CHASSIS WEIGHTS

For the most effective utilisation of this vehicle the following guidelines should be observed to ensure that the limit is correctly applied and that design limits are not exceeded.

1. The truck is primarily designed for rigid or tractor/trailer application. As a rigid vehicle the capacity of 14 tonnes is available for payload and body. As a prime mover hauling the maximum trailer, total combined tractor/trailer and payload capacity of 38 tonnes is available.

2. The following maximum body dimensions are recommended for rigid application:

Body length	4800 mm
Body width	2500 mm

3. Wheelbase alterations need GMH approval.

4. When PTO equipment is fitted, design limits for specific Isuzu PTO must not be exceeded.

Special application approval from GMH Sales is required in writing for any deviation from standard specifications. GMH wish to keep records of special application vehicles.

Lengths:

		mm
Wheelbase (Mean)	WB	3850
Front overhang	FOH	1430
Rear overhang	ROH	1980
Bumper — back of cab	BBC	1890
Cab — axle	CA	3390*
Cab to end of frame	CE	5370*
Overall length	OAL	7260
Tandem axle spacing	TAS	1300

*CA and CE dimensions are effectively reduced by 300 mm with fitment of vehicle exhaust pipe & protector.

Widths:

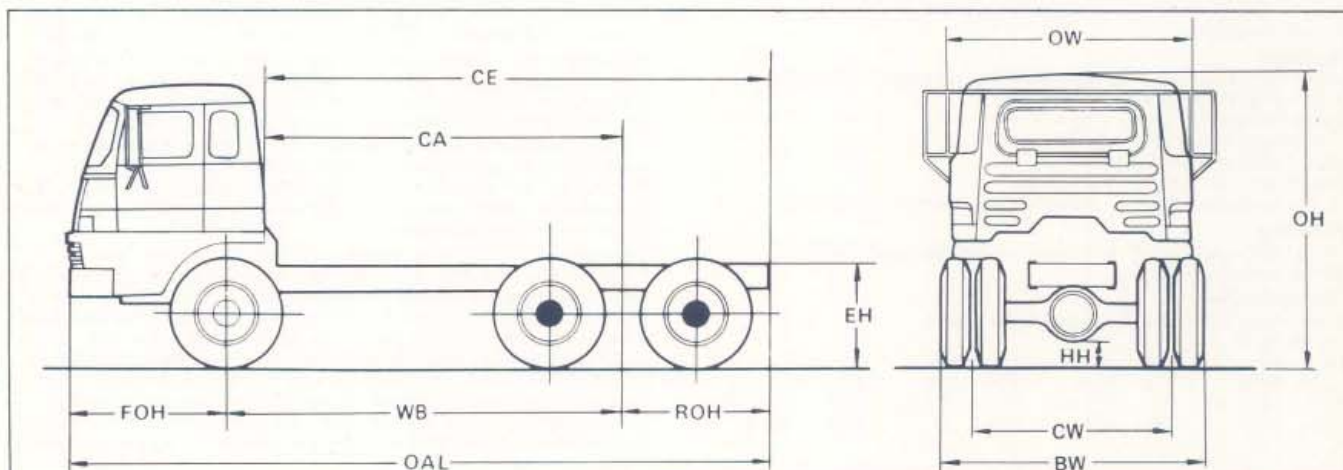
Frame width (rear)	FW	823
Front track	FT	2050
Inside rear track	IRT	1510
Outside rear track	ORT	2170
Overall width	OAW	2450

Heights:

Overall height (top of cab)	OAH	810
Rear axle clearance	B	255
Frame height @ CL axle (approx.)	FH	1095

Turning Circle:

	metres
Kerb to kerb	13.60
Wall to wall	15.60



PRIME MOVER						INCL. TRAILER
ESTIMATED KERB WEIGHT CHASSIS/CAB (kg)			GROSS VEHICLE MASS (kg)			GCM (kg)
Front	Rear	Total	Front max	Rear max	Total	Total
3725	3350	7075	5620	17,440	23,000	38,000