

ISUZU JCR 420S/500S CHASSIS/CAB TURBOCHARGED

JCR 420S/500S



GVM 12,850kg - 13,350kg with 9.00 x 20 - 14 ply tyres

ENGINE:

Model: Isuzu 6BDIT Diesel engine.
Type: Four cycle, water cooled, overhead valve, in-line, direct injection, with turbocharger: AiResearch model T04B.
No. of cylinders: 6.
Bore and stroke: 102mm x 118mm (4.02 ins. x 4.65 ins.).
Displacement: 5785cm³ (353 CID).
Max. net power: 128 kW @ 3,000 rpm (DIN)
Max. net torque: 431 Nm @ 1,900 rpm (DIN).
Compression ratio: 17.5:1.
RAC rating: 39.

ENGINE LUBRICATION:

Pressure feed with full-flow paper element. Oil cooler.
Capacity: 14.5 litres (26 imp. pts.).

FUEL SYSTEM:

Injection pump: Reformed Bosch in-line with mechanical governor.
Fuel tank capacity: 200 litres (44.0 imp. gals.).

AIR CLEANER:

Vertical air intake system. Donaldson air cleaner.

AXLE, FRONT:

Capacity: 5,000kg (11,023lbs.).
Type: Reverse Elliot, I-beam.

AXLE, REAR:

2 speed.
Capacity: 9,200kg (20,282lbs.).
Type: Fully floating axle shafts.
Ratio: 6.018/7.631 two-speed control-air shift with electric solenoid actuation.

BRAKES, SERVICE:

Type: Hydraulic with air assisted, front-two leading, rear-dual two leading type.
Total lining area: 3944cm² (611.3sq. ins.).

BRAKE, PARKING:

Type: Mechanical internal expanding at rear of transmission.

CLUTCH:

Type: Dry single plate with 6 cushioning springs hydraulically operated.
Total frictional area: 966cm² (149.7sq. ins.).
Size: Outside diameter 350mm (14ins.).

COOLING SYSTEM:

Radiator: Tube and corrugated fin, pressured type.
Frontal area, radiator: 2959cm² (458.6sq. ins.).
Core Thickness: 70mm (2.76ins.).

DRIVE LINE:

Type: Tubular shaft, needle bearing universal joint.

ELECTRIC SYSTEM:

Battery: 2 x 12 volt.
Capacity: 65 amp./hr. each battery. Negative earth.
Alternator: 24 volt/400 watt - 24 volt/480 watt.
Starter: 24 volt/3.7kW.

FRAME:

Type: Ladder type channel section.
Frame width: Front 840mm (33.1 ins.). Rear: 800mm (31.5 ins.).
Side member dimensions: Depth x Width x Thickness - 225mm (8.865 ins.) x 70mm (2.76 ins.) x 6mm (.2364 ins.).
Frame reinforcement: Full inner channel plating in area of rear axle.
Inner upright "L" plating to the rear of the cab.

SPRINGS:

Type: Semi-elliptical alloy steel leaf-springs.
Size: Length x width. No. of leaves.
Front: 1300mm (51.2ins.) x 70mm (2.76 ins.) - 8.
Rear: 1420mm (55.95 ins.) x 80mm (3.15 ins.) - 9.
Rear auxiliary: 1000mm (39.4ins.) x 80mm (3.15 ins.) - 7.
Shock absorbers: Hydraulic double acting telescopic at front.

STEERING:

Type: Recirculating ball with integral power assistance.
Gear ratio: 20.8:1.

TRANSMISSION:

ISUZU MBF5C - 2-speed rear axle, 5-speed synchromesh on 2nd, 3rd, 4th, 5th gears. Floor mounted remote control. Power take-off with control cable. Ratios: (to 1).

1st	2nd	3rd	4th	5th	Reverse
6.890	3.918	2.419	1.569	1.000	6.304

WHEELS AND TYRES:

Dual rear wheels.
Wheels and rims: 7.00 x 20, 8 stud disc.
Tyres: 9.00 x 20 - 12 ply. Optional: 9.00 x 20 - 14 ply.
Spare wheel and tyre standard.

STANDARD EQUIPMENT:

All steel cab (tilt type) with wide windshield. Adjustable driver seat. Two-speed windshield wiper. Windshield washer. Hazard warning flasher. Dual Tone electric horn. Hydraulic jack and wheel wrench. Floor mat. Speedometer with odometer. Meter for fuel, water, temperature. Warning lamp for charging, oil pressure, and clogged oil filter, instruments for measuring air pressure and an air pressure warning lamp. Indicator lamp for turn signal, main beam, parking brake. Starter heater control. Laminated windshield glass. Spare tyre carrier. Heater and demister. Radio. General hand tools. Front wheel steps. Seat belts. External West Coast rear view mirrors.

GMH 12/20 WARRANTY:

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

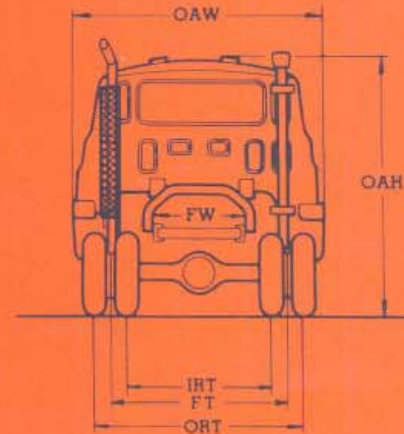
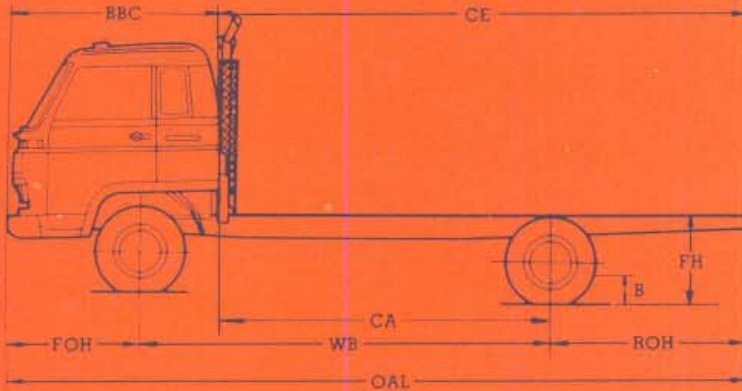
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DIMENSIONS/CHASSIS WEIGHTS



	JCR 420S		JCR 500S	
LENGTHS:	mm	inches	mm	inches
Wheelbase	WB 4200	(165.5)	5000	(196.9)
Front overhang	FOH 1260	(49.6)	1260	(49.6)
Rear overhang	ROH 1900	(74.9)	2200	(86.6)
Bumper — back of cab	BBC 2075	(81.7)	2075	(81.7)
Cab — axle	CA 3450	(136)	4250	(167.5)
Cab to end of frame	CE 5350	(211)	6450	(254.5)
Overall length	OAL 7360	(290.0)	8460	(333.3)

*CE and CA dimensions are effectively reduced by 300mm (11.8 ins.) with fitment of vertical exhaust pipe and shield.

WIDTHS: JCR 420S/500S

Frame width	FW	800	(31.5)
Front track	FT	1920	(75.6)
Inside rear track	IRT	1450	(57.1)
Outside rear track	ORT	2285	(90.0)
Overall width	OAW	2370	(93.3)

HEIGHTS:

Overall height (approx.)	OAH	2475	(97.5)
Rear axle clearance (approx.)	B	245	(9.6)
Frame height	FH	980	(38.6)

TURNING CIRCLE:

Kerb to kerb		metres	feet
		16.8	(55.2)

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

1. The trucks are primarily designed for rigid application but have sufficient power for occasional trailer towing.

2. Due to modern design, the low tare weight of the truck allows capacity of over 9 tonnes for body, equipment and payload, within its standard G.V.M. rating.

3. This model has excellent power from its fuel efficient, direct injection, turbocharged engine. However, large frontal area and high speed requires a great deal of power, and so the total height by width of the vehicle should generally not exceed 7.5 square metres, except for special applications.

4. High centre of gravity of bodies and loads tends to induce leaning on cornering at speed or on transverse slopes.

5. If these models are to be used as tippers, frame modifications should be made in accordance with GMH instructions. Refer to your Dealer for details.

6. Wheelbase alterations require GMH approval.

7. When P.T.O. equipment is fitted, design limits for the specified Isuzu P.T.O. must not be exceeded.

8. Special application approval from GMH Sales Department is required in writing for any deviation from standard specification, GMH wish to keep a record of special application vehicles.

Calculated maximum rolling (restart) gradeability at 12,850kg GVM = 30% (20%) 18,500kg GCM = 20% (11%)

Note that restart gradeability relies on less quantifiable factors such as driver skill, frequency of restarts, vehicle condition, road surface etc.

Maximum body dimensions

	JCR 420S	JCR 500S
Length	5550 mm	6750 mm
Width	2500 mm	2500 mm
Height (as van body)	2100 mm	2100 mm

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GVM	GCM	Tyres
JCR 420S 12,850	18,500	9.00 x 20 - 12 ply
JCR 500S 13,350	18,500	9.00 x 20 - 14 ply

ESTIMATED KERB WEIGHTS CHASSIS AND CAB

(with oil, water and full fuel tank in kg. and (lb.).)

Front	Rear	Total
JCR 420S 2185 (4807)	1435 (3163)	3620 (7964)
JCR 500S 2240 (4928)	1450 (3197)	3690 (8118)