



# Isuzu SHG 541S



## Chassis/Cab. Twin Steer Single Drive

GVM 18,450kg (40,675lb.) GCM 32,000kg (70,400lb.) with 10,000x20-12 tyres

### Engine:

Model: Isuzu 6RAI T Turbocharged Diesel.  
 Type: 4-cycle overhead valve, in line, direct injection with Turbocharger  
 AiResearch model TV61.  
 Dual inlet & exhaust valves. Roller tappets.  
 Number of cylinders: 6.  
 Bore and stroke: 135 mm x 140 mm.  
 Displacement: 12023 cm<sup>3</sup> (733.6 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.

### Axle, Front:

Capacity: 6000kg each axle. 12000kg total.  
 Type: Reverse Elliot 'I' Beam.

### Axle, Rear:

Capacity: 11500 kg. Type: Single reduction, hypoid gear, banjo full floating. Ratio: 4.875:1. (470 mm, 18.5" dia. hypoid).

### Brakes, Service:

Type: Air mechanical. Dual circuit "S" - Cam. Total lining area 0.672 sq. metre. Exhaust brake is standard. Auto drain cock. - air tank.

### 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, .528 sq. metre. Core, 70mm thick.

### Electrical System:

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

### Drive Line:

Type: Tubular shafts, needle bearing universal joints. 3 shafts with two centre bearings.

### Frame:

Ladder type with double channel section side members and 7 cross members. Width: Front 950 mm. Rear 811 mm.  
 Dimensions 250 mm x 85 mm x 6 mm.

### 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.

### Engine Lubrication:

Type: Pressure feed with full flow paper element and partial flow depth type oil filter. Oil cooler.  
 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.

### Springs:

Type: Semi-elliptic alloy steel leaf springs.  
 Size: Length x width — No. of leaves.  
 Front: Forward and rearward, 1600 mm x 80 mm — 7.  
 Rear: 1420 mm x 100 mm — 7.  
 Rear auxiliary: 980 mm x 100 mm — 5.  
 Shock absorbers: Double acting hydraulic telescopic — front.

### Steering:

Model: Twin steer — dual front axles.  
 Type: Recirculating ball with linkage-type power assist.  
 Ratio: 30.0:1.  
 Wheel diameter: 503 mm.

### Transmission:

Type: Fuller Roadranger 13 speed overdrive (RTO-11613).

### Ratio (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	

### Wheels and Tyres:

Dual rear wheels.  
 Tyres: 10.00 x 20 — 12 ply — 18,450 kg. GVM

### Application:

Rigid Tray Truck & Four Wheel Trailer.  
 Fuel Tanker.  
 8 CuM Tipper & Trailer.  
 Container Haulage.  
 Refrigerated Pantechicon.



# Reliability is everything.



## DIMENSIONS/CHASSIS WEIGHTS

### Lengths:

		mm
Wheelbase	Mean WB	4400
	1st-3rd Axle WB	5400
Front overhang	FOH	2510
Rear overhang	ROH	1275
Bumper — back of cab	BBC	1890
Cab — axle (3rd axle)	CA	5020*
Cab to end of frame	CE	6295*
Overall length	OAL	8195

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

Twin steer spacing TSS 2000

### Widths:

Frame width (rear)	FW	811
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	2770
Front axle clearance	A	245
Rear axle clearance	B	245
Frame height @ CL axle (approx.)	FH	1079

### Turning Circle:

Kerb to kerb	metres	18.4
Wall to wall		20.4

### 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.

PLEASE NOTE: As the policy of General Motors-Holden's is one of continual product improvement, all specifications and equipment are subject to change without notice. Bodies illustrated are not standard.

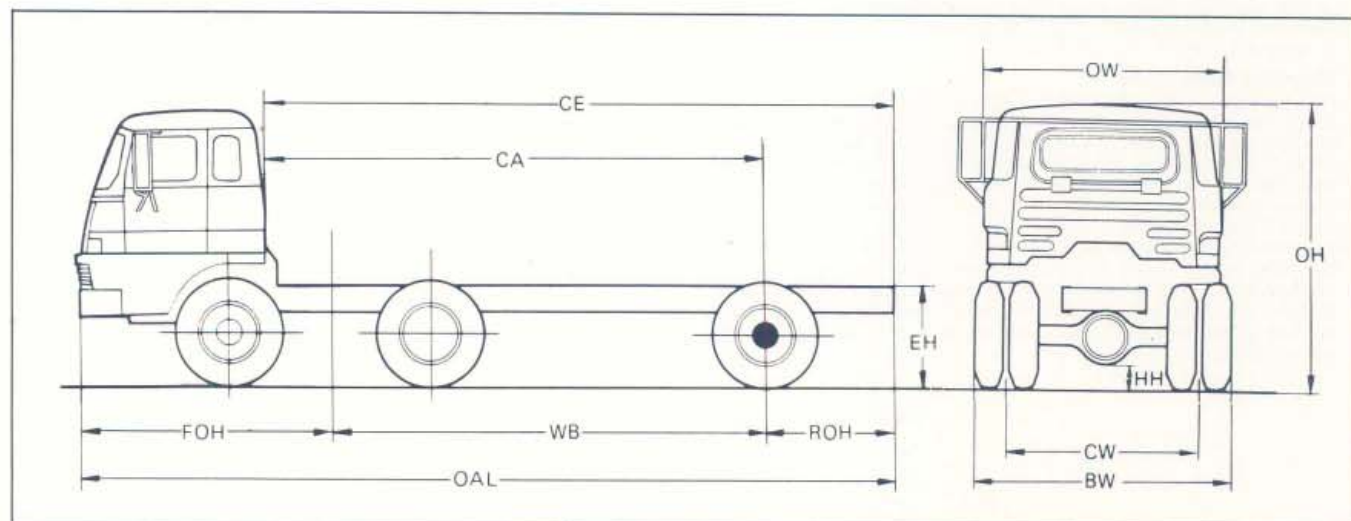
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For the most effective utilisation of this vehicle the following guidelines should be observed to ensure that the unit is correctly applied and that design limits are not exceeded.

1. The truck is primarily designed for rigid application with 12.25 tonnes available for payload and body, depending on State weight regulations.
2. The following maximum body dimensions are recommended:
  - Tray length 6400 mm
  - Tray width 2500 mm
3. Wheelbase alterations need GMH approval.
4. When PTO equipment is fitted, design limits for specified 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.



ESTIMATED KERB WEIGHT CHASSIS/CAB (kg)			GROSS VEHICLE MASS (kg)			GCM (kg)
Front	Rear	Total	Front max	Rear max	Total	Total
4750	1475	6225	10,200	8720	18450	32,000