

**SPH 711S**

ISUZU SPH 711S TWIN STEER TANDEM DRIVE CHASSIS/CAB

**GVM 26,000 kg (57,330 lb.) GCM 38,000 kg (79,366 lb.) WITH 10.00 x 20 - 12 TYRES.****ENGINE:**

Model: Isuzu E120T Turbocharged Diesel.
 Type: 4-cycle overhead valve, in line, direct injection with Turbocharger. AiResearch model TV61.
 Dual inlet & exhaust valves.
 Number of cylinders: 6.
 Bore and stroke: 135 mm x 140 mm.
 Displacement: 12023 cm³ (723' CID).
 Max. net power: Din 202 kW (275 bhp) @ 2300 rpm.
 Max. net torque: Din 980 Nm (723 lb/ft) @ 1400 rpm.
 Compression ratio: 15:5:1.
 RAC rating: 67.7.

ENGINE LUBRICATION:

Type: Pressure feed with full flow paper element and partial flow depth type oil filter. Oil cooler.
 Capacity: 24 litres.

FUEL SYSTEM:

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

AIR CLEANER:

Donaldson cyclopac, 2 stage type with vertical air intake (model HFA-12) with safety element.

AXLES FRONT TWIN STEERING:

Capacity 6000 kg each axle. 12000 kg total.
 Type: Reverse Elliot-1 beam.

AXLES REAR TANDEM:

Capacity 10500 kg each axle, 21000 kg. total.
 Type: Banjo fully floating tandem axle, hypoid gear.
 Final gear ratio: 4.875:1.

BRAKES, SERVICE:

Type: Dual circuit, full air/mechanical, leading and trailing.
 Total lining area: 9472 cm²
 Exhaust brake is standard.

BRAKE, PARKING/EMERGENCY:

Type: Spring brake at forward and rearward rear axle wheels.

CLUTCH:

Type: Air assisted, hydraulically operated Spicer angle spring 14" model AS2-1402 twin plate.

COOLING SYSTEM:

Radiator: Pressure type, tube and corrugated fin.

DRIVE LINE:

Type: Tubular shafts, needle bearing universal joints.

ELECTRICAL SYSTEM:

Battery 2 x 12 volt, capacity 150 amp. hr. each battery. Neg. earth
 Alternator 850W.
 Starter: 24 volt.

FINISH:

Cab interior and exterior - finished in acrylic lacquer.

FRAME:

Ladder type with double channel section side members and 8 cross members.
 Width: 85 mm. Height: 250 mm.

SPRINGS:

Type: Semi-elliptic alloy steel leaf springs - trunnion shaft type at rear.
 Size: Length x width - No. of leaves.
 Front: Forward and rearward, 1600 mm x 80 mm - 7.
 Rear: 1300 mm x 90 mm - 9.
 Shock absorbers: Steering axles, double acting hydraulic telescopic.

SUSPENSION:

Front: Semi-elliptic alloy steel leaf springs.
 Size: Length x width 1600 x 80 mm.
 No. of leaves: 7.
 Shock absorbers: double acting telescopic.

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. (RTO9513).
 Ratio: (to 1).

| | | | | | | | |
|-------|------|------|------|------|------|------|----------|
| 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | |
| 12.50 | 8.35 | 6.12 | 4.56 | 3.38 | 2.47 | 2.14 | |
| 8th | 9th | 10th | 11th | 12th | 13th | Rev. | Low Rev. |
| 1.81 | 1.57 | 1.35 | 1.17 | 1.00 | 0.87 | 3.87 | 13.07 |

Separate controls for high/low range and splitter on gear shift lever.

WHEELS AND TYRES:

Dual rear wheels, both axles.
 tyres: 10.00 x 20 - 12 ply.
 Wheels and rims: 13/7.50 T x 20. 162 mm offset, 8 stud.
 Spare wheel and tyre.

STANDARD EQUIPMENT:

Tilt cab. Sleeper bed. Tempered side and rear glass. Suspension seat - driver's side. Ventilation system. Laminated windscreen. Two-speed triple blade windscreen wipers. Windscreen washers. Kilometre speedometer/odometer. Oil pressure, charging, clogged oil filter, brake lining clearance of wheel brake and exhaust brake warning lights. Fuel, water temperature, air and oil pressure gauges. High beam and turn signal indicator lights. Reversing lights. General hand tools. Hydraulic jack and tools. Fuel shut off device. Tachometer. Tachograph. Dual tone air horn. Battery isolating switch. Heater/demister. Radio. Ash trays. Cigarette lighter, glove compartment. Internal and West Coast type external rear vision mirrors. Seat belts. Hazard warning flashers. Engine over-run warning device. Spare wheel & tyre on carrier: lifting type. Sunvisors. Tyre inflator device.

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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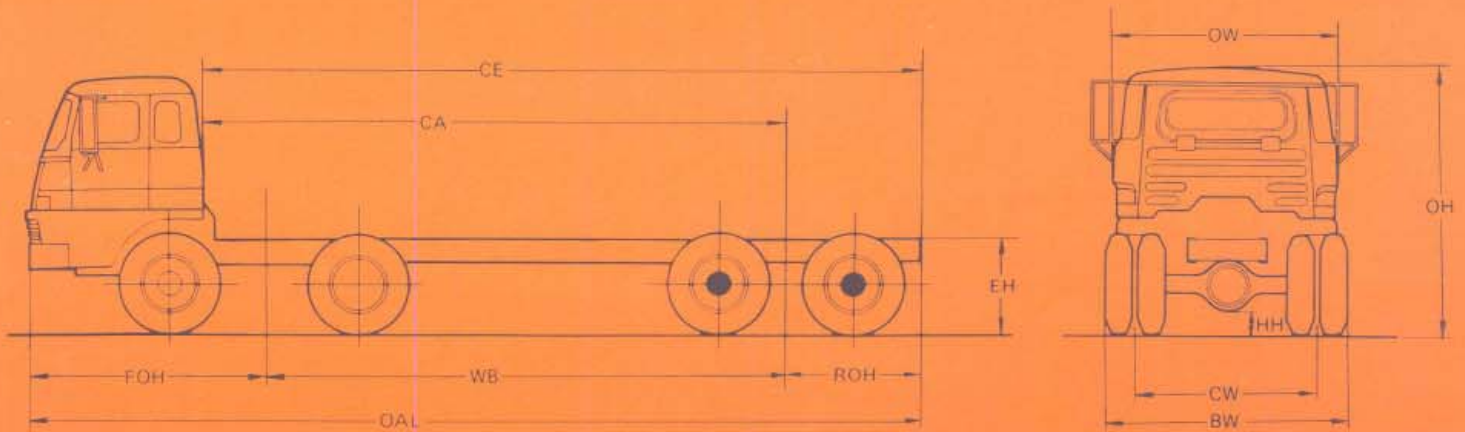


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TWIN STEER TANDEM DRIVE CHASSIS/CAB

DIMENSIONS/CHASSIS WEIGHTS



LENGTHS:

| | | mm |
|------------------------------|-----|--------|
| Wheelbase OVERALL | WBO | 7,100 |
| First to Mid Point of tandem | WBM | 6,450 |
| Front overhang | FOH | 1,500 |
| Rear overhang | ROH | 2,605 |
| Bumper - back of cab | BBC | 1,880 |
| Cab - axle | CA | 6,070* |
| Cab to end of frame | CE | 8,670* |
| Overall length | OAL | 10,550 |
| Twin Steer Spacing | TSS | 2,000 |
| Tandem Axle Spacing | TAS | 1,300 |

*CA and CE dimensions are effectively reduced by 500mm with fitment of vertical exhaust pipe & protector.

WIDTHS:

| | | |
|--------------------|-----|-------|
| Frame width | FW | 811 |
| Front Track | FT | 2,000 |
| Inside rear track | IRT | 1,516 |
| Outside rear track | ORT | 2,126 |
| Overall width | OAW | 2,435 |

HEIGHTS:

| | | |
|--------------------------------|-----|-------|
| Overall cab height | OAH | 2,767 |
| Front axle clearance APPROX. | A | 245 |
| Rear axle clearance APPROX. | B | 255 |
| Frame height @ CL axle APPROX. | FH | 1,030 |

TURNING CIRCLE:

| | metres |
|--------------|--------|
| Kerb to kerb | 21.8 |

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 17.6 tonnes available for payload and body.
2. When vehicle is expected to travel at high speeds, sustained wide open throttle operation should not exceed 80% of the operating period.

3. The following maximum body dimensions are recommended:
 Body length 9200mm
 Body width 2500mm

4. Wheelbase alterations need GMH approval.
5. When PTO equipment is fitted, design limits for the specified Isuzu PTO must not be exceeded.
 Special application approval from GMH Sales is required in writing for any deviation from standard specification. GMH wish to keep records of special application vehicles.
 Calculated maximum rolling gradeability @ GVM 37.6% @ GCM 25.7%
 Calculated maximum starting gradeability @ GVM 28% @ GCM 16% on smooth, hard surface.

| ESTIMATED KERB WEIGHT CHASSIS/CAB | | | GROSS VEHICLE MASS | | | GCM |
|-----------------------------------|------|-------|--------------------|----------|-------|-------|
| FRONT | REAR | TOTAL | FRONT max | REAR max | TOTAL | TOTAL |
| 5235 | 3145 | 8380 | 9600 | 17000 | 26000 | 38000 |