



# ISUZU SPZ 45IS

## TANDEM DRIVE CHASSIS/TILT CAB

1980/1

**SPZ 45IS**



**GVM 21000 kg (46297 lb.) GCM 38000 kg\* (74957 lb.) WITH 10.00 x 20 - 12 TYRES**

**ENGINE:**

Model: Isuzu E120T Turbocharged Diesel.  
Type: 4-cycle overhead valve, in line, direct injection with Turbocharged AIRsearch model TV61  
Dual inlet & exhaust valves.  
Number of cylinders: 6.  
Bore and stroke: 135mm x 140mm  
Displacement: 12023 cm<sup>3</sup> (723.5 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. Restriction warning.  
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 FHA 14L) with safety element. Restriction warning.

**AXLE, FRONT:**

Capacity: 6000 kg. Type: Reversible Elliott T Beam.

**AXLE, REAR TANDEM:**

Capacity: 21000 kg total. Type: Banjo, fully floating, single speed hypoid. Axle ratio: 5.571:1 16.5" dia. gear.

**BRAKES, SERVICE:**

Type: Full air leading and trailing. Dual circuit. Exhaust brake. Total lining area: 7288 cm<sup>2</sup>.

**BRAKE, PARKING/EMERGENCY:**

Type: Spring/air.

**CLUTCH:**

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

**COOLING SYSTEM:**

Radiator: Tube and corrugated fin. Frontal area, 3750 cm<sup>2</sup>  
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: 450W. Starter: 24 volt.

**FRAME:**

Type: Ladder type, double channel section. Dimensions (outside):  
Depth 250mm. Width 85mm. Thickness 6mm  
4 cross members.

**SPRINGS:**

Type: Semi-elliptical, alloy steel leaf. Trunnion type rear suspension.  
Size: Length x width - No. of leaves.  
Front: 1600mm x 80mm - 7.  
Cap @ ground 4950 kg.  
Rear: 1300mm x 90mm - 9.  
Cap. @ ground 13350kg.  
Shock absorbers: Hydraulic, double acting, telescopic.

**STEERING:**

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

**TRANSMISSION:**

Type: Fuller RTO9513 Roadranger, 13-speed.

Ratios (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	Low Rev.	High Rev.	
1.81	1.57	1.35	1.17	1.00	0.87	13.07	3.87	

**WHEELS AND TYRES:**

Dual rear wheels: Tyres: 10.00 x 20 - 12 ply. Wheels and rims: 11/7.50 T x 20, - stud, 162mm offset. Spare tyre and wheel.

**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, exhaust brake indicator flashing lights. 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. Intermediate differential lock.

**APPLICATION:**

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

**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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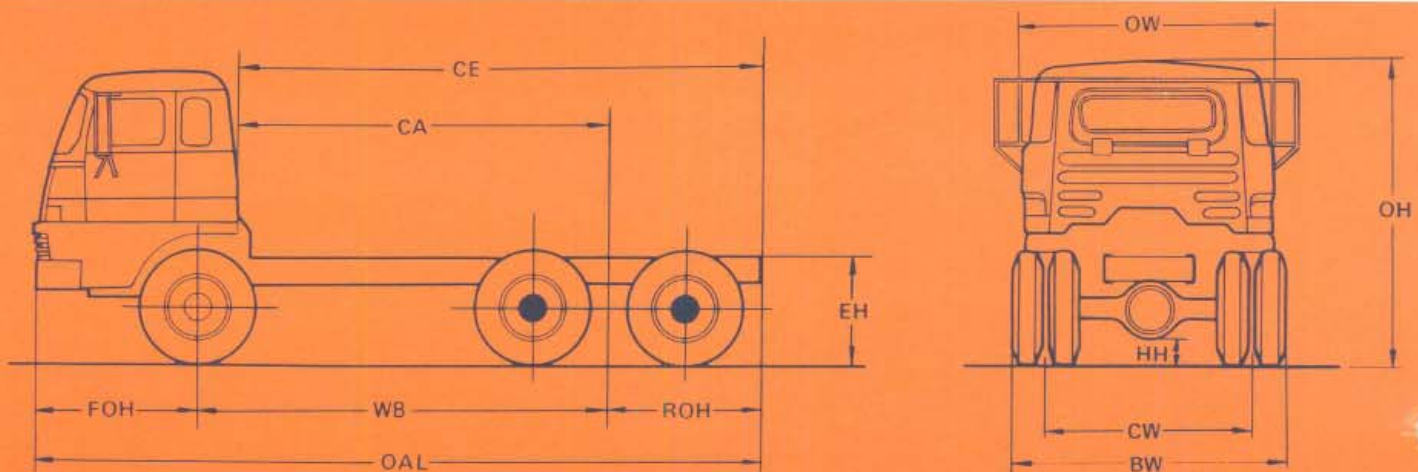


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## TANDEM DRIVE CHASSIS/TILT CAB

### DIMENSIONS/CHASSIS WEIGHTS



**LENGTHS:**

		mm
Wheelbase (Mean)	WB	3850
Front overhang	FOH	1425
Rear overhang	ROH	1980
Bumper - back of cab	BBC	1880
Cab - axle	CA	3390*
Cab to end of frame	CE	5370*
Overall length	OAL	7255
Tandem axle spacing	TAS	1300

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

**WIDTHS:**

Frame width (rear)	FW	811
Front track	FT	2000
Inside rear track	IRT	1516
Outside rear track	ORT	2164
Overall width	OAW	2435

**HEIGHTS:**

Overall height	OAH	2775
Rear axle clearance	B	255
Frame height @ CL axle (approx)	FH	1030

**TURNING CIRCLE:**

	metres
Kerb to kerb	13.20
Wall to wall	15.20

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. 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 for rigid application:
 

Body length	4800mm
Body width	2500mm

4. Wheelbase alterations need GMH approval.
5. 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. Calculated maximum rolling gradeability @ GVM 53% @ GCM 29.4% Calculated maximum starting gradeability @ GVM 43% @ GCM 20% on smooth, hard surface.

PRIME MOVER						INCL. TRAILER
ESTIMATED KERB WEIGHT CHASSIS/CAB			GROSS VEHICLE MASS			GCM
FRONT	REAR	TOTAL	FRONT max	REAR max	TOTAL	TOTAL
3625	3380	7005	5000	17000	21000	38000