

ISUZU FVZ 1400 Turbo PTO



ENGINE ISUZU 6SD1-TC

Type: 6 cylinder, in line, overhead camshaft, direct injection, four stroke, diesel engine. Turbocharged and Air-To-Air Intercooled.
Bore x Stroke: 120 mm x 145 mm
Displacement: 9839 cc
Compression Ratio: 16.5:1
Output - Power: 199 kW @ 2200 RPM (ISO 1585)
Torque: 1,000 Nm @ 1500 RPM (ISO 1585)

CLUTCH

- Hydraulic control dry single plate with cushioning springs. Coil type pressure springs.
- Clutch disc diameter: 381 mm (15").
- Pneumatic clutch release assistance.
- Asbestos free lining material. Total lining area 1,363 cm².

TRANSMISSION EATON RT-7608LL

- Direct drive, twin countershaft transmission. Oil capacity 11 litres.
- 10 Forward Speeds, 3 Reverse Speeds. 'Repeat-H' shift pattern. Pre-selected and synchronised range change.

Forward gear ratios (:1)

Low-Low	Low	1st	2nd	3rd
18.81	12.31	8.24	6.07	4.51
4th	5th	6th	7th	8th
3.32	2.48	1.83	1.36	1.00

- Reverse gear ratios (:1):

Low-Low	Low	High
17.87	11.69	3.52

- Maximum geared speed 110 km/h. Electronically road speed limited to 100 km/h.

REAR AXLES ROCKWELL RT-40-140 CAPACITY 18,500 KG

- Tandem axle set with driver controlled electric / air inter-axle differential lock. 1,300 mm tandem axle centre spacing.
- Banjo, fully floating, single reduction type axles. Final drive ratio 4.100:1
- Hypoid type ring gear 381 mm diameter. Oil capacities (front / rear): 14.3 / 12.2 litres.

BRAKES

- Rockwell 'Q-Plus' full air, 'S'-cam, dual circuit brake system with front and rear leading and trailing shoes. Asbestos free brake shoe lining material.
- Drum diameters (front and rear): 419 mm.
- Brake drum swept areas: 13,374 cm² total; 4,002 cm² front, 9,372 cm² rear.
- Air reservoir capacities:

Supply Tank	Front Service Tank	Rear Service Tank
28.5 litres	22.4 litres	35.0 litres
- Parking Brake Tank 11.0 litres.
- Air Compressor 85 mm Bore x 60 mm Stroke (340 cm³ / revolution), gear driven at half engine speed, water cooled.
- Nylon brake air tubing. Air dryer.
- Spring park brake acting on all rear wheels.
- Air controlled, butterfly type exhaust brake.

FLYWHEEL POWER TAKE OFF

- Drive ratio (PTO RPM: Engine RPM): 1.1:1.
- Maximum Output Torque: 440 Nm.
- Output flange rotates in same direction as engine.

MODEL:	WHEELBASE	GVM	GCM	ORDERING CODE
FVZ 1400 PTO	4,410mm	22,500kg	36,000kg	8FU02-783

KERB MASS (kg)*

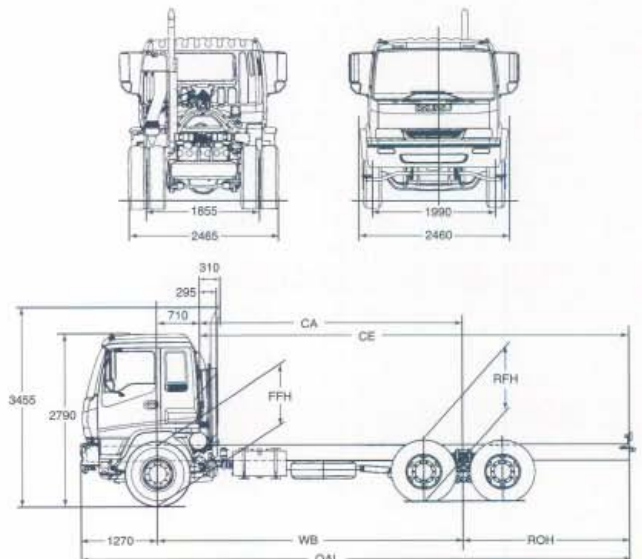
Model:	Front	Rear	Total
FVZ 1400 PTO	3175	3530	6705

*Estimated mass of chassis cab with oil, water and fuel tank containing 10 litres of fuel. Excluding spare wheel and tools.

DIMENSIONS (mm) *

	FVZ 1400 PTO
Wheelbase (WB)	4,410
Overall Length (OAL)	7,620
Rear Overhang (ROH)	1,940
Cab To Axle (CA)	3,700
Cab To End Of Frame (CE)	5,640
Front Frame Height, Unladen (FFH)	980
Front Frame Height, Laden (FFH)	930
Rear Frame Height, Unladen (RFH)	1,065
Rear Frame Height, Laden (RFH)	1,040
Turning Circle (Kerb To Kerb)	17.3m
Nominal Max. Body Length*	5,900

*Except Turning Circle: metres. *Subject to weight distribution



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AIR INTAKE SYSTEM

- Donaldson 13" diameter, dry element, two stage filter. Vertical intake stack with rain head.
- Turbocharger and Air-To-Air Intercooler. Intercooler dimensions: 540 mm x 470 mm x 53 mm. Total intercooler frontal area 2,540 cm².

CHASSIS FRAME

- Parallel rail, ladder type, channel section, cold riveted.
- Straight frame for easy body mounting. 850 mm frame width.
- Rear crossmember and spring hanger brackets bolted to frame allowing easy wheelbase modification.
- Frame side member dimensions: 258 mm x 85 mm x 10 mm.
- Frame reinforcement angle section: 224 x 85 x 4.5 mm.
- Frame material: SAPH440 weldable mild steel.

COOLING SYSTEM

- 6 blade plastic cooling fan 600 mm diameter with bell-mouth fan shroud and dual drive belts.
- Bimetallic controlled, thermatic fan clutch.
- Tube and corrugated fin, pressure type radiator. Dimensions: 800 mm x 636 mm x 54 mm. Frontal area 5,088 cm².
- Coolant capacity 29.0 litres.

ELECTRICAL SYSTEM

- Batteries: 2 x 12 Volt / 65 Amp/h, negative earth.
- Alternator: 24 Volt / 40 Amp.
- Starting Motor: 24 Volt / 5.5 kW.
- Rear stop, turn, reverse and tail lamp assemblies and licence plate lamp with long leads for variable body mounting.

EXHAUST SYSTEM

- Horizontal muffler with vertical exhaust pipe.
- Air controlled, butterfly type exhaust brake.

FRONT AXLE ISUZU F063 CAPACITY 6,300 KG

- Reverse Elliot I-beam type.
- King Pin diameter 50 mm with cylindrical roller thrust bearing.
- Oil bath lubricated front wheel hubs with see-through oil level indicator.

FRONT SUSPENSION CAPACITY 6,000 KG

- Semi-elliptical, alloy steel tapered multi-leaf springs. Fully wrapped spring eye with greasable shackles.

Length	x	Width	x	Thickness	x	No. leaves
1,470 mm	x	80 mm	x	12 mm	x	2
		80 mm	x	13 mm	x	5
		80 mm	x	11 mm	x	2

- Stabiliser bar.
- Hydraulic, double acting, telescopic shock absorbers.

FUEL SYSTEM

- In line plunger, Bosch 'AP' type fuel injection pump with 'RLD' mechanical all-speed governor.
- Electronic road speed limiter.
- In line, paper element filter. See-through water separator with drain cock.
- Single fuel tank, 180 litre capacity, mounted on passenger side chassis rail.

LUBRICATION SYSTEM

- Pressure feed lubrication system. Gear driven, gear type oil pump.
- Full-flow and partial-flow bypass oil filter canisters.
- Plate type oil cooler in engine water jacket.
- Oil capacity 28.5 litres (including filters).

PROPELLER SHAFT

- Single piece. Diameter 114.3 mm. Length 1234 mm.

REAR SUSPENSION CAPACITY 18,500 KG

- Isuzu 6-Rod and trunnion axle location system. Inverted, semi-elliptical, alloy steel, tapered multi-leaf springs. Tandem axle centres: 1,300 mm.

Length	x	Width	x	Thickness	x	No. leaves
1,300 mm	x	90 mm	x	18 mm	x	10

STEERING

- Fully integral power assisted recirculating ball and nut type. Gear ratio 22.4:1. Turns lock to lock: 4.5.
- Gear driven, vane type oil pump. See-through oil reservoir.
- Oil capacity 2.5 litres (including reservoir).

TOOLS

- Lockable tool box with 10,000 kg capacity jack. Wheel changing tools. Tool kit.

WHEELS AND TYRES

- 8.25 x 22.5 - 10 stud ISO standard (hub piloted) disc wheels. Stud size: 22 mm. Offset: 165 mm.
- 11R22.5-16 Ply Rating Goodyear G391 tubeless radial steer tyres.
- 11R22.5-16 Ply Rating Goodyear G167A tubeless radial drive tyres.
- Winch type spare wheel carrier, mounted on chassis frame on passenger side.
- Number of wheels and tyres: 11 (including spare wheel and steer tyre).

CABIN EXTERIOR

- All steel cab with welded strengthening ribs and side door impact beams. Torsion bar assisted cabin tilt to 45°.
- Four point cabin suspension utilising silicone filled rubber isolators.
- Cation electrodeposition primer.
- Heavy duty bumper bar with step holes and footplate.
- Halogen headlamps, hinged for easy bulb replacement.
- Park lamps and cabin clearance lamps.
- Turn signal lamps in front bumper and over wheel arches.
- 2 speed windscreen wiper / washer system with variable intermittent mode. Triple washer jets mounted on wiper arms.
- Tinted and laminated windscreen. Tinted and toughened side and rear glass.
- 'West Coast' type rear view mirrors.
- Alloy, non-slip cabin entry steps.
- Lift-up front panel for access to clutch and windscreen washer fluids without tilting the cabin. Engine fluid check points at rear of cabin.

CAB INTERIOR

- Fully trimmed cab interior with cloth seat facings, formed roof lining and overhead storage lockers. Driver and passenger sun visors.
- Pull-out drinks holder in centre fascia. Cigarette lighter (24 Volt). Ash trays in doors.
- Driver's seat with mechanical suspension and 3 way lumbar support. Adjustment for seat back recline, seat slide and weight control.
- Outboard reclining passenger seat.
- Lap/sash seat belts with emergency locking retractors.
- Centre storage compartment with lockable lid/tray.
- Tilt/telescopic adjustable steering column with single release lever. Soft feel urethane steering wheel with zero offset to driver's seat.
- Easy entry grab handles on 'A' and 'B' pillars.
- Heater/Demister with 4 speed fan, 4 outlet vents to screen, 5 fascia outlets, 5 foot outlets, demister ducts to door glass.
- Optional fully integrated air conditioning.
- Dash mounted AM/FM Radio Cassette with digital clock.
- DIN standard aperture in dash for CB radio.
- Park brake activation lever at left side of driver's seat.
- Combination passenger-side dash storage tray/fuse panel cover.
- Interior rear vision mirror.
- Passenger side assist grip.
- Driver's left foot rest.
- Exhaust vents at rear/upper of cabin.
- Business card clip. Coat hook at rear of cabin.
- Elastic mesh pocket on driver's door.
- 24 Volt, 2-Pin accessory plug in centre console.

INSTRUMENTATION

- Speedometer, Odometer, Trip Meter and Tachometer.
- Coolant Temperature and Fuel Level Gauges. Dual brake air pressure gauge.

INDICATOR LAMPS

- Turn Signals On; Parking Brake On; High Beam On; Exhaust Brake Enabled, Inter-Axle Differential Lock Engaged.

WARNING LAMPS AND ALARMS

- Warning lamps for: Low Battery Charge; Low Engine Oil Pressure; Low Air Pressure; Stop And/Or Tail Lamp Failure.
- Warning lamp bulb check switch.
- Reversing Lamps and audible alarm.

CONTROLS

- Left side combination stalk control for exhaust brake, windscreen wipers and washers and hazard lamps.
- Right side combination stalk control for headlamps, high beam and turn signals.
- Inter-Axle Differential Lock control switch.
- Engine idle speed adjust control.
- Key operation for engine start and stop. External engine crank switch for service when cab is tilted.
- Three way switch for interior lamp (Off / On / On By Driver Or Passenger Door).

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