

ISUZU FVM 1400 FVL 1400



ISUZU
RELIABILITY IS EVERYTHING

AT A GLANCE

GVM	22,500 - 24,000 kg
GCM	32,000 kg
Engine Type	Isuzu SiTEC 275
Displacement	9.8 L
Power	206 kW @ 2,000 rpm
Torque	1,030 Nm @ 1,400 rpm
Wheelbase	6,470 mm

FVM 1400 Long

FVL 1400 Long

DRIVELINE & CHASSIS SPECIFICATIONS

ENGINE: SITEC 275 (ISUZU 6SD1-TC)

Type: 6 cylinder, 4 stroke, SOHC, direct injection diesel.
Variable Geometry Turbocharger (VGT) and air-to-air intercooler. Adjustable roller type rocker arms.

Displacement: 9,839 cc

Compression Ratio: 16.0:1

Bore x Stroke: 120 x 145 mm

Max power (DIN NET): 206 kW @ 2,000 RPM

Max torque (DIN NET): 1030 Nm @ 1,400 RPM

Emissions Standard: ADR 80/00 (Euro III)

- Plate type oil cooler. 28.4 L oil capacity. Separate full flow main filter and bypass oil filter.

COOLING SYSTEM

- 6 blade, 600 mm diameter cooling fan with thermostatically controlled viscous clutch. Dual drive belts.
- Radiator frontal area: 5,088cm².
- 29 L coolant capacity.

AIR INTAKE SYSTEM

- Vertical air intake mounted on back of cab. Two stage Donaldson air cleaner with 280 x 380 mm main element and 160 x 350 mm secondary element.
- 610 x 540 mm air-to-air intercooler.

FUEL SYSTEM

- Denso common rail fuel injection. Separate fuel filter and water separator.
- 400 L aluminium tank.

CLUTCH

- Air assisted hydraulic control.
Single plate 381 mm diameter.
Asbestos free cerametallic lining material.
Total lining area: 1,363 cm²

TRANSMISSION

EATON FS-8209A BBE 9 Speed Manual

- 9 forward speeds. Direct drive.
 - Syncromesh on gears 1-8. Repeat 'H' shift pattern.
 - 8.5 L oil capacity.
 - Two SAE PTO openings on LHS of transmission case.
 - Gear ratios (: 1)
- | Low | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | Rev/H |
|-------|------|------|------|------|------|------|------|------|-------|
| 12.64 | 8.81 | 6.55 | 4.77 | 3.55 | 2.48 | 1.85 | 1.34 | 1.00 | 13.17 |

AXLES

FRONT

FVM 1400

ISUZU F065

- Reverse Elliot I-beam.
6,500 kg capacity.

REAR

FVM 1400

ISUZU RT165

- Isuzu RT165 drive and lazy axle combination.
1,300 mm axle spacing.

- 16,500 kg capacity.
- Drive ratio:3.909:1

FVL 1400

MERITOR FG941

- Reverse Elliot I-beam.
6,600 kg capacity.

FVL 1400

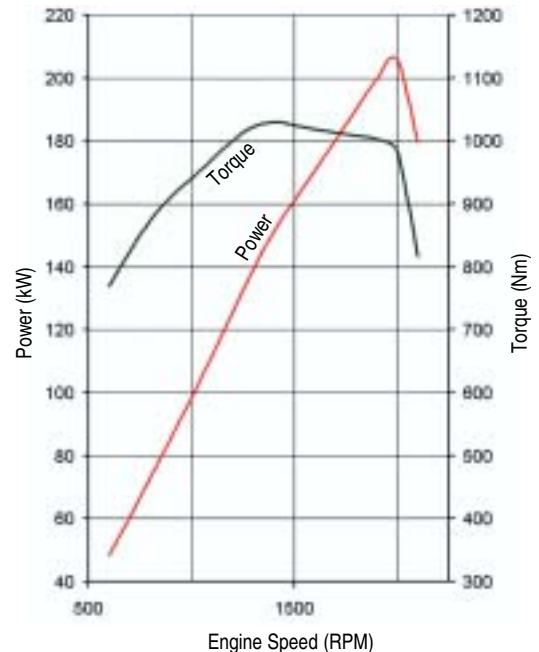
MERITOR RS-23-161G

- Meritor RS-23-161G drive and TR4670 lazy axle combination
1300 mm axle spacing.
- 20,000 kg capacity.
- Cross locks available as optional fitment.
- Drive ratio:3.909:1

SITEC 275

Maximum Power : 206 kW @ 2,000 RPM

Maximum Torque : 1,030 Nm @ 1,400 RPM



ISUZU SITEC 275 (6SD1-TC) ENGINE PERFORMANCE CHART

SUSPENSION

FRONT

- Single stage, alloy steel, taper leaf springs. Fully wrapped eye with greasable shackles.
- Nominal size: 1,600 x 80 mm
- Total spring capacity (At ground): 6,670 kg
- Double acting, hydraulic shock absorbers. Stabiliser bar.

REAR

FVM 1400

- Alloy steel, multi-leaf springs.
Isuzu 6 rod and trunnion location system.
- Nominal size: 1,300 x 80 mm
- Total spring capacity: 18,360 kg (at ground)

FVL 1400

- Hendrickson HAS400 airbag.
Four rolling lobe air springs.
- Total spring capacity: 19,740 kg (at ground)
- Outboard mounted double acting shock absorbers.
- Height control valve.

BRAKES

FVM 1400

- Full air 'S-cam' brakes.

- 410 mm front and rear drum diameter.
- 12,881 cm² swept area.
- Asbestos free lining material.
- Spring type parking brake acting on rear wheels.
- Air controlled exhaust brake.
- 96.9 L total air reservoir capacity.
- Air dryer.

FVL 1400

- Meritor 'Q-Plus' full air 'S' cam brakes with automatic slack adjusters.
- 419 mm front and rear drum diameter.
- 12,716 cm² swept area.

STEERING

- Power assisted recirculating ball steering.
- 22.4:1 gear ratio.
- 5.4 turns lock to lock.
- FVM 1400: 49° wheel cut angle (inside wheel).
FVL 1400: 45° wheel cut angle (inside wheel).

WHEELS AND TYRES

- 8.25 x 22.5 Ten stud ISO standard disc wheels.
- 11R22.5 148/145L Michelin XDE2 Tubeless tyres (drive axle).
- 11R22.5 148/145L Michelin XZE2 Tubeless tyres (steer and lazy).
- Maximum tyre rating: 3,150 kg per tyre (single tyres).
2,900 kg per tyre (dual tyres).
- Frame mounted winch type spare wheel carrier.
Spare wheel and XZE2 tyre assembly supplied

AXLE LOAD SUMMARY

FVM 1400	FRONT	REAR
Axle Capacity (kg):	6,500	16,500
Spring Capacity (kg):	6,670	18,360
Tyre Capacity (kg):	6,300	23,200
Legal Limit (kg):	6,000	16,500
Limit (kg):	6,000	16,500

FVL 1400	FRONT	REAR
Axle Capacity (kg):	6,600	20,000
Spring Capacity (kg):	6,670	19,740
Tyre Capacity (kg):	6,300	23,200
Legal Limit (kg):	6,000	17,000
Limit (kg):	6,000	17,000

Note: Vehicle loading limit is determined by the combination of axle loading limit, GVM and GCM limit, and government regulatory requirements. Consult your Isuzu dealer to select the correct vehicle for your specific application.

CHASSIS FRAME

- Cold riveted ladder frame with parallel side rails. SAPH440 weldable steel.
- Frame dimensions
Side rail (mm): 258 x 85 x 10
Rear frame width (mm): 850
- Frame reinforcement section.
- Front and rear tow hooks.

ELECTRICAL SYSTEM

- 24 Volt electrical system.
- 24 Volt, 60 Amp alternator.
- 24 Volt, 5.5 kW starter motor.
- 2 x 75D23R (520CCA) batteries connected in series.

CABIN SPECIFICATIONS AND APPOINTMENTS

CAB EXTERIOR

- All steel cab, side door impact protection beams. Outer body panels galvanised, corrosion resistant primer treated cab.
- Manual cab tilt to 45°. Access to fluid checkpoints without tilting cab. Front access panel for clutch, windscreen washer fluids and cab air filter screen. Four point silicone filled rubber cab mounting.
- Body coloured steel front bumper with step holes and footplate.
- 90° opening internally reinforced door. Heavy duty aluminium non slip entry steps.
- Tinted, laminated windscreen. 2 speed windscreen wiper system, variable intermittent wipe mode, triple washer jets.
- Halogen headlamps. Park lamps and roof-mounted clearance lamps.
- Combination brake, turn, reverse and marker lamps, registration plate illumination lamps. Extended wiring harness. Reverse alarm.
- "West Coast" type rear view mirrors. Large flat mirror glass with additional, independently adjustable convex "spot" mirror on both sides.

CAB INTERIOR

- Isringhausen ISRI 6500/517 air suspension driver's seat, auto weight adjustment to 130 kg. Height, rake and backrest recline adjustment. Pneumatic lumbar support. Reclining passenger bucket seat, centre seat with folding seat back.
- 3-point, lap sash seatbelts with emergency locking belt retractors in all outboard seating positions. Centre lap seatbelt.
- "A" pillar entry assist grips. Interior lamp with On/Door/Off switch activated by either door.

- Full interior panel trim, padded roof lining, vinyl floor mats. Windscreen header storage shelf. DIN sized aperture in dash for CB. Overhead console fitted with harness for CB.
- Tilt/Telescopic adjustable steering column, soft feel urethane steering wheel.
- 12 Volt, 100 Watt and 24 Volt, 2 pin accessory sockets located in centre console.
- Electric windows.
- Central locking with remote keyless entry.
- Centre facia pullout drinks holder. Lockable storage compartment on centre seat back.
- Heater/Demister with 4-speed fan and outlets for windscreen, side windows, face and floor.
- Standard fully integrated air conditioning.
- Two speaker Eurovox Radio/CD player with digital anti skip memory.
- Remote seek/volume and mute switch located on dash to right of steering wheel.
- Optional 10 stack CD player.

DRIVER CONTROLS

- Key-operated engine start/stop and steering lock. Electronic throttle control. Engine idle speed control.
- Left side combination stalk: Windscreen wipers, washers, exhaust brake and hazard lights.
- Right side combination stalk: Turn signals and headlamps.

INSTRUMENTATION

- Gauges: Electronically driven speedometer, odometer, tripmeter, tachometer. Gauges for coolant temperature and brake air pressure.
- Warning lamps: Warning bulb check switch. Battery charge, brake system, engine malfunction, oil pressure, stop and tail lamp failure.
- Indicator lamps: Turn signals, parking brake, high beam, exhaust brake engaged.

