# HEAVY FV51 6X4

**MANUAL OR AMT / MECH SUSP. / MWB**

<table>
<thead>
<tr>
<th>GVM</th>
<th>GCM</th>
<th>Power/Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>25,400 kg</td>
<td>50,000 kg to 53,000 kg</td>
<td>360HP/1,850NM to 455HP/2,200NM</td>
</tr>
</tbody>
</table>

*Heavy rigid licence required*

*40,000 KM SERVICE INTERVALS*

[40,000 KM SERVICE INTERVALS]

**Specifications**

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Wheel Base</th>
<th>GVM</th>
<th>GCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 6x4 FV51 360hp MWB 13 Sp. MAN (FV51SK2FAA)</td>
<td>4300mm</td>
<td>25,400kg</td>
<td>50,000kg</td>
</tr>
<tr>
<td>B 6x4 FV51 360hp MWB 12 Sp. AMT (FV51SK2VFAA)</td>
<td>4300mm</td>
<td>25,400kg</td>
<td>50,000kg</td>
</tr>
<tr>
<td>C 6x4 FV51 400hp MWB 12 Sp. AMT (FV51SK3VFAA)</td>
<td>4300mm</td>
<td>25,400kg</td>
<td>50,000kg</td>
</tr>
<tr>
<td>D 6x4 FV51 455hp MWB 12 Sp. AMT (FV51SK5VFAA)</td>
<td>4300mm</td>
<td>25,400kg</td>
<td>53,000kg</td>
</tr>
</tbody>
</table>

### Engine

**Engine Version**
- A: FUSO OM457-T2 Diesel
- B: FUSO OM457-T3 Diesel
- C: FUSO OM457-T5 Diesel
- D: FUSO OM457-T6 Diesel

**Configuration**
- 6 Cyl. In-line OHV

**Type**
- Waste-gate Turbocharged with Air to Air Intercooled

**Displacement**
- 12 litre (11967cc)

**Bore**
- 126mm

**Stroke**
- 155mm

**Power (DIN)**
- A: 265kW @ 1900 rpm
- B: 295kW @ 1900 rpm
- C: 335kW @ 1900 rpm

**Torque (DIN)**
- A: 1850Nm @ 1100 rpm
- B: 2000Nm @ 1100 rpm
- C: 2200Nm @ 1100 rpm

**Maximum Engine Speed**
- 2100 rpm

**Cooling System / Oil Cooler**
- Water cooled, 32.0L capacity

**Air Cleaner**
- Paper Element Type with Restrictor Indicator. Vertical Intake Mounted on Clean Air Side (RH)

**Emission Control**
- Selective Catalytic Reduction (SCR)

**Emission Level**
- ADR 80/03 - Euro 5

### Fuel

**Injection System**
- Electronically Controlled Unit Pump Injection

**Tank Type**
- Rectangular Alloy Tank with Locking Cap

**Fuel Capacity**
- 400 Litres

**Filtration**
- Filter with Water Separator and Dash Indicator

**AdBlue Exhaust Fluid Capacity**
- 40 Litres, Tank fitted with locking AdBlue cap

**Speed Limiter**
- Speed Limited 100km/h

**Notes**
- *Max Fill to approx 95% of Air Capacity

### Cooling

**Fan Drive**
- Thermo modulated continuous control (Viscous)

**Radiator**
- Corrugated Fin with Expansion Tank

### Electrical

**Voltage**
- 24V Negative Ground

**Alternator Capacity**
- 24V-60 amp

**Starter Capacity**
- 24V-7.0 kW

**Battery Capacity**
- 2x12V, 150Ah/20hr

**Battery Specification**
- 2x145G51 (N150)

**Headlamp Type**
- Halogen

**Headlamp Capacity**
- Low-beam 2x70W
- High beam 2x70W

**Fog Light**
- Halogen

### Clutch

**Clutch Model**
- A: FUSO C14W40P
- B: FUSO C12W43P

**Type**
- Twin Dry Plate

**Operation/Specification**
- Air Assisted Hydraulic

### Transmission

**Version**
- A: Eaton Manual
- B/C/D: FUSO Automated Manual G230-12 (INOMAT-II)

**Type/Speeds**
- 13 Speed Constant Mesh

**Features**
- Counter-shaft Brake
- Oil Cooler

**Ratios**
- 1st: 12.310
- 2nd: 8.640
- 3rd: 6.110
- 4th: 4.430
- 5th: 3.230
- 6th: 2.290
- 7th: 1.950
- 8th: 1.620
- 9th: 1.380
- 10th: 1.170
- 11th: 1.000
- 12th: 0.960
- 13th: 0.730
- RHigh: 3.500
- RLow: 11.673

**PTO Opening**
- Lower Transmission LH Side and Rear of XMSM

### Propeller Shaft

**Type**
- Single Main Shaft GW5E2200

### Front Axle

**Axle Version**
- FUSO F090T

**Type**
- Reverse Elliot 'Y' Beam

**Capacity**
- 7500kg

**Notes**
- *See MAX LOADING for vehicle capacity.

### Front Suspension

**Type**
- Long Taper Leaf with Double Acting Shock Absorbers

**Size**
- 1500x90mm Leaves

### Rear Axle

**Type**
- Full Floating Hypoid Type Tandem Drive with Inter-Axle Diff Lock

**Axle Version**
- FUSO R10/D10

**Capacity**
- 21600kg

**Ratio**
- A: 5.142:1
- B/C/D: 4.625:1

**Notes**
- *See MAX LOADING for vehicle capacities

### Rear Suspension

**Type**
- Mechanical Suspension

**Details**
- Long Leaf Taper, 6 Rod Trunnion

**Size Main Leaves**
- 1320x90mm

### Max Loading

**Front**
- 6500kg

**Rear**
- 21600kg

**Total**
- 25400kg
### OPTIONS

<table>
<thead>
<tr>
<th>Options</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>R51: Flywheel (Live Drive) PTO</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>R54: Limited Slip Differential (LSD) for Both diffs</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### STEERING

<table>
<thead>
<tr>
<th>Type</th>
<th>Integral Ball and Nut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steering Column</td>
<td>Tilt/Telescopic Adjustable</td>
</tr>
</tbody>
</table>

### BRAKES

| Type | Full Air, Dual Circuit with FUSO Taper Rollers, ABS plus ASR (Anti Slip Regulator) |
| Size | 410x150mm, 410x200mm |
| Park Brake | Rear Wheel Spring Actuated |
| Engine | Constant Throttle Brake |
| Trailer | Hand Control Valve, Air Lines Coupling and Electrical Cable |

### WHEELS & TYRES

<table>
<thead>
<tr>
<th>Wheel Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel Size</td>
<td>22.5x8.25DC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel Stud Pattern</td>
<td>10x335mm PCD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tyre Size Front</td>
<td>295/80R22.5 152/148</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tyre Size Rear</td>
<td>11R22.5 148/145</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spare Tyre Carrier</td>
<td>Not Provided</td>
<td></td>
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</tr>
</tbody>
</table>

### CHASSIS

| Type | Reinforced Parallel Channel |
| Size | 300x90x7.0mm |
| Width | 840mm |
| Tensile Strength | 540Mpa |

### INSTRUMENTS

| Gauges | Speedometer with Odometer, Tachometer, Air Pressure (2), Fuel Level, Water Temperature, AdBlue Level |
| Colour Information Display | Fuel Consumption, Service Indicators Hour Meter and Tripmeter, Oil Level Check |
| Warning Lamps | A | B | C | D |

### MULTI-MEDIA PACKAGE

| Satellite Navigation | Maps with heavy vehicle weight, length, height & hazardous material selectable restrictions with 3 years of Map updates |
| Colour Display | 6.1 inch LCD with touch screen control |
| Phone Connectivity | Bluetooth® hands free |
| Audio Visual Entertainment | CD/DVD player, Digital radio DAB+ (also AM/FM for areas not covered by DAB+) USB port for iPod® & other devices |
| Reversing Camera | Display can accept up to 3 cameras |
| Notes | * iPod® compatibility requires an additional licenced cable # Cameras available through spare parts |

### STANDARD FEATURES

| Airbag(s) | Driver’s Air Bag and Seat Belt Pre-tensioners |
| Hill Start System | A | B | C | D |
| Cab Cooling & Heating | Climate Control |
| Accessory Power | 24V Accessory Power Outlet / Cigar Lighter |
| Driving | A | B | C | D |
| Air Pressure | Oil Pressure |
| Engine Overrun | Engine Overheat / Low Coolant Level |

### CAB FEATURES

| Type | All Steel Forward Control Electric / Hydraulic Tilt Cab |
| Cab Structure | ECE-R29 Standard |
| Mounting | Air Suspended Front and Rear |
| Colour | Natural White |
| Windscreen Wipers | 2 Speed + Intermittent Cycle with Integrated Washer Nozzles |
| Rear Vision Mirrors | 2 x External, Flat Main Mirrors Plus Convex Spotters Motorised Main Mirrors, All Mirrors Heated |
| Seating Capacity | A | B | C | D |
| Seat Belts | Lap Sash Belts for Outside Seating Positions, Lap Belt for Centre Seat |
| Seat (driver) | Suspended (ISR) |
| Seats (passenger) | A | B | C | D |
| Sleeping |ADR42/04 Approved Sleeping Berth (455hp Only) |

### SERVICE INTERVALS

| Interval | 40,000km, 12 Months or 800 Hours (whichever occurs first) |
| Notes | * based on normal operating conditions and may be reduced when operating under severe conditions. |
A 6x4 FV51 360hp MWB 13 Sp. MAN (FV51SK2FAA)  4300mm  25,400kg  50,000kg
B 6x4 FV51 360hp WB 12 Sp. AMT (FV51SK2VFAA)  4300mm  25,400kg  50,000kg
C 6x4 FV51 400hp WB 12 Sp. AMT (FV51SK3VFAA)  4300mm  25,400kg  50,000kg
D 6x4 FV51 450hp MWB 12 Sp. AMT (FV51SK5VFAA)  4300mm  25,400kg  53,000kg

**WARRANTY**

| Basic/Powertrain | 5 Years, 500,000kms or 10,000 operating hours (whichever occurs first) |
| Cab Perforation/Anti Corrosion | 5 Years |

**PERFORMANCE**

| Turning Circle (kerb to kerb 15.0 - metres) | Electronically Speed Limited 100km/hr to: |
| Engine Speed (rpm) at 100km/hr (top gear) | Conforms to ADR65/ |
| Gradeability at Rated GCM (theoretical)* | Notes |

| Front* | A | B | C | D |
| 4505kg | 4365kg | 4407kg | 4340kg |
| Rear* | 3505kg | 3470kg | 3432kg | 3360kg |
| Total* | 8010kg | 7835kg | 7839kg | 7700kg |

### BODY BUILDERS NOTES

- **Notes**: Chassis reinforcement must be utilised for Tipper/Demountable type body configurations. To conform with ADR 13/00 (lighting requirements) the following must be adhered to at body installation.
  - If other than a flat type or tipper body is fitted, rear end out-line marker lamps must be installed.
  - If overall length exceeds 6.0 metres, side reflectors must be installed.
  - If overall length exceeds 7.5 metres, side marker lamps must be installed.

To conform with ADR 42/04 (General Safety), rear wheel guards must be fitted to the vehicle.

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