



500 SERIES - FE 1426

MANUAL / AMT MODELS



KEY FEATURES

Vehicle Stability Control (VSC) – Including ABS & TC

Pre-Collision System (PCS) – Including SE, AEB & PD

Lane Departure Warning System (LDWS)

Adaptive Cruise Control (ACC)

Engine Retarder Brake (Jake brake)

Reverse Camera

LED headlamps with integrated LED daytime running lamps

Drivers SRS Airbag

ISRI 6860 NTS2 Drivers seat with integrated safety belt

ECE-R29 Cab Strength Certified

post Post New Long Term (pPNLT)

(Euro 6 equivalent emissions)

pPNLT EMISSION LEVELS (EURO 6 EQUIVALENT) 4 X 2 CAB CHASSIS

*Illustration may contain items not standard to the model

KEY SPECIFICATIONS

GVM 14,000 (optional 12,000 available on application)

GCM 21,000kg

Power 260hp/191kW

Torque 882Nm

ENGINE & DRIVELINE SPECIFICATIONS

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| ENGINE | |
|--------------------------------|--|
| Model | Hino A05C-TC |
| Max. output (ISO NET) | 260hp/191kW @ 2,300RPM |
| Max. torque (ISO NET) | 882Nm @ 1,400RPM |
| Max. engine RPM | 2,550RPM |
| Engine compliance | ADR 80/03 using Japan pPNLT |
| Type | Diesel, turbocharged & intercooled 4 cylinder with overhead camshaft |
| Combustion system | Direct injection with EGR |
| Bore & stroke | 112 x 130mm |
| Piston displacement | 5.123L |
| Compression ratio | 17.0:1 |
| Fuel injection | Electronic control common rail |
| Air compressor / bore & stroke | Single cylinder / 70 x 40mm |
| Air cleaner | Dual paper elements |
| Exhaust | Horizontal outlet RHS |
| Emission Control System | DPR & SCR (AdBlue®) |
| Engine Immobiliser | Equipped |

| TRANSMISSION & GEAR RATIOS | | |
|----------------------------|---|-------|
| Make and description | Hino MX07, 7 speed synchromesh with cable shift (AMT is electronic control) | |
| Type | Overdrive | |
| Gear Ratios | 1 | 6.515 |
| | 2 | 4.224 |
| | 3 | 2.441 |
| | 4 | 1.473 |
| | 5 | 1 |
| | 6 | 0.746 |
| | Reverse | 0.578 |
| Torque convertor & ratio | 6.991 | |
| Rear axle ratio | 5.428 | |
| PTO option/Torque capacity | Single/235Nm | |

| PERFORMANCE | |
|---|-------|
| Calculations based on 14t GVM with 265/70R 19.5 tyres | |
| Engine RPM @ 100km/h | 1,971 |
| Max theoretical speed (km/h) | 129 |
| Gradeability tan (%) @ GVM | 56.7 |
| Speed limiter to (km/h) | 100 |

| SAFETY FEATURES | |
|--|--|
| Active Safety Features | |
| Vehicle Stability Control (VSC) | Equipped |
| Anti-lock Brake System (ABS) | Equipped |
| Pre-Collision System (PCS) | Equipped |
| Pre-Collision System (PCS) is inclusive of | Safety Eye (SE) Autonomous Emergency Braking (AEB) Pedestrian Detection (PD) |
| Traction Control (TC) | Equipped |
| Lane Departure Warning System (LDWS) | Equipped |
| Staggering Warning (SW) | Equipped |
| Adaptive Cruise Control (ACC) | Equipped |
| Reverse Camera (RC) | Equipped |
| Easy Start hill assist (ES) | Equipped |
| Passive Safety Features | |
| SRS airbag for driver | Equipped |
| SRS Seat belt pretensioner for driver | Equipped |
| Front Underrun Protection device (FUPD) | Equipped |
| ECE-R29 Cab Strength Certified | Equipped |

| BRAKES | |
|-------------------------------------|--|
| Type | Drum brakes front and rear |
| Control | Air Over Hydraulic (AOH), Dual circuit |
| Drum diameter x lining width front | 370 x 120mm |
| Drum diameter x lining width rear | 370 x 150mm |
| Air Dryer | Equipped |
| Vehicle Stability Control (VSC) | Equipped |
| Pre-Collision System (PCS) | Equipped |
| Anti-lock Brake System (ABS) | Equipped |
| Traction Control (TC) | Equipped |
| Park brake | Spring brake acting on rear wheels |
| Easy Start (ES) | Equipped |
| Exhaust & engine brake (Jake Brake) | Equipped |

ENGINE & DRIVELINE SPECIFICATIONS

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WHEELS & TYRES

| | |
|--------------------|--|
| Wheel type | 8 stud disc wheel (ISO type) PCD 275 |
| Rim size | 6.75 x 19.5 with 147 mm offset (alloy) |
| Tyre size | 265/70R19.5 132/130 |
| Number of tyres | 7 including the spare |
| Spare tyre carrier | Equipped |

CLUTCH

| | FE2AJ1A-FCCAE | FE2AL1A-FCCAE | FE2AL1G-FCCAE | FE2AP1G-FCCAE | FE2AP1A-FNCAE |
|--------------|----------------------------|---------------|---------------|---------------|----------------------------|
| Model | CSP-380 | | | | DSP-380 |
| Type | Dry single plate | | | | Dry single plate |
| Clutch plate | 380mm Organic | | | | 380mm Organic |
| Control | Hydraulic with air booster | | | | Hydraulic with air booster |

SUSPENSION & LOAD LIMITS

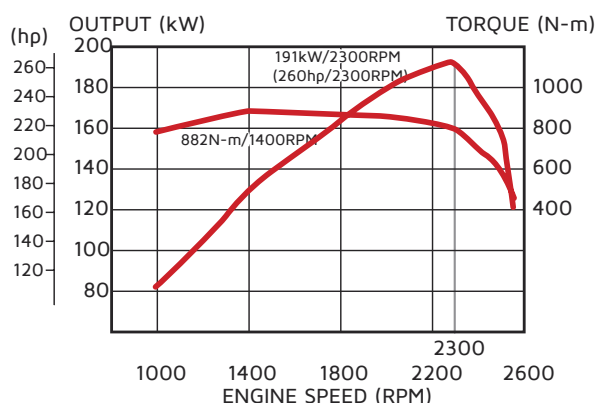
| Model | FE2AJ1A-FCCAE | FE2AL1A-FCCAE | FE2AL1G-FCCAE | FE2AP1G-FCCAE | FE2AP1A-FNCAE |
|-------|--------------------------------------|--|---------------|---|--|
| Front | Front axle model | LF 451 | | | |
| | Front axle type | I-Beam, reverse Elliot | | | |
| | Suspension | Taper leaf springs with shock absorbers and stabiliser | | | |
| | Spring Dimensions | 1,300 x 70mm | | | |
| | Number | 4 | | | |
| | Spring rate (kgf / mm ²) | 27 | | | |
| | Axle limit (including suspension) | 5,000kg | | | |
| | Tyre limit | 5,000kg | | | |
| Rear | Rear axle model | SH14 | | | |
| | Rear axle type | Fully floating, single reduction by hypoid gears | | | |
| | Rear suspension types | Leaf | | Air | Leaf |
| | Suspension description | Taper leaf main and auxiliary with shock absorbers | | Hendrickson HAS 200 with shock absorbers and mechanical ride height valve | Taper leaf main and auxiliary with shock absorbers |
| | Spring dimensions | Main | Auxiliary | | Main |
| | Length and width | 1,300 x 70 | 900 x 70 | | 1,300 x 70 |
| | Number | 4 | 5 | | 4 |
| | Spring rate (kgf / mm ²) | 29 | 104 | 29 | |
| | Axle limit (including suspension) | 9,000kg | | | |
| | Tyre limit | 9,400kg | | | |

FUEL TANK

| | |
|------------------------|----------|
| Material | Steel |
| Fuel capacity | 200L |
| Lockable fuel cap | Equipped |
| Prefilter & sedimenter | Equipped |
| Adblue® capacity | 19L |

| CAB DETAILS | |
|-----------------------------------|--|
| Type | Forward control, rest cab, all steel construction with torsion bar tilt mechanism |
| Grille colour | Matte Grey |
| Seating capacity | Compliant |
| Drivers seat | ISRI 6860 NTS2 air suspension, 10 way adjustable with integrated safety belt and rear pocket |
| Side passenger seat | High back and reclining seat |
| Centre seat | Foldaway type with integrated tray |
| Seat belts | 3 point lap sash for driver and side passenger, 2 point lap for centre position |
| Sunvisor and overhead console | For driver and passenger sides |
| Windscreen wipers | 2 arm wiper and washers, 2 speed with intermittent |
| Cab heater and air conditioner | Equipped with 4 speed fan, rear heater and fan located under the seat |
| Rear view mirrors | External : Electric & heated, 2 flat type, 2 convex spotters & kerb view |
| Auxiliary power supply | 12 volt 120W socket and USB 2.1 amp |
| Floor covering | Vinyl type |
| Central locking and keyless entry | Equipped with immobiliser |
| Cab storage pockets | Equipped in both side doors |
| Power windows | Equipped |
| Foot rest | Equipped |
| Cup holders | 3 centre and 2 door beverage holders |
| Multimedia System | 6.5" LCD, HD touch screen display with DAB+ AM/FM radio, AUX input, Bluetooth@4.1, Android 6.0, CANBUS connected and Wi-Fi enabled |

POWER & TORQUE CHART (ISO NET) A05C-TC



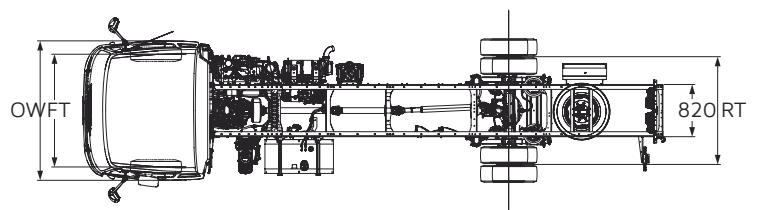
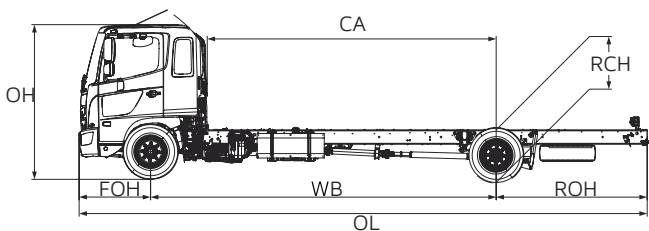
| CHASSIS FRAME | | | | | |
|---|---|------------------|------------------|------------------|------------------|
| Model | FE2AJ1A-FCCAE | FE2AL1A-FCCAE | FE2AL1G-FCCAE | FE2AP1G-FCCAE | FE2AP1A-FNCAE |
| Chassis frame wheelbase variants | FE2AJ | FE2AL | FE2AL | FE2AP | FE2AP |
| Main section in mm (depth x flange x thickness) | 231.0 x 78 x 6.5 | 233.0 x 78 x 7.5 | 233.0 x 78 x 7.5 | 231.6 x 78 x 6.8 | 231.6 x 78 x 6.8 |
| Chassis width | 820mm | | | | |
| Tensile strength | 540 N/mm ² (55 kgf/mm ²) | | | | |
| Front Underrun Protection Device (FUPD) | Equipped | | | | |
| Tow hook capacity (front and rear) | 2,000 kgf (max angle of 15°) | | | | |
| Type | Ladder-shaped channel section side rails | | | | |

| INSTRUMENTATION | |
|---------------------------------|--|
| Meters | Steering wheel controls |
| Speedometer | Cruise control |
| Tachometer | MID controls |
| Air Gauges | Additional switches and controls |
| LCD display | External flat mirror control |
| Time | VSC off |
| Temperature Gauge | PCS off |
| Adblue® Gauge | LDWS off |
| Fuel Gauge | Idle up |
| Odometer | Quick warm up |
| Hour Meter | ES start control |
| Date & Day | Mirror heater |
| Multi Information Display (MID) | Engine brake |
| General information | Power and economy (AMT model only) |
| Cruise Control setting | DPR regeneration |
| Eco Tree | Electric window lock out |
| Display setting | Head light leveller |
| Safe driving settings | ECO Run |
| System Check | Suspension Dump (Air suspension models only) |

| STEERING | |
|---------------------------|---|
| Type | Telescopic and tilt steering column with locking device. Recirculating ball with integral power steering. |
| Gear ratio | 19.0:1 |
| Steering angles - Inside | 53° |
| Steering angles - Outside | 38° |

| ELECTRICAL | |
|-------------------------------|---|
| Type | 24 volt negative earth |
| Batteries | 12 volt x 2 120AH (115F51) |
| Alternator capacity | 24 volt x 90 amp |
| Starter type | 24 volt x 4.5kW |
| Headlamps | LED main beam with LED daytime running lamps |
| LED cornering/Fog lamps | Equipped |
| LED Interior and reading lamp | Equipped |
| Electric air horn | Equipped |
| CANBUS connected | Equipped J1939 protocol (see BMM for details) |

| DIMENSIONS | | | | | |
|--|---|---------------|---------------|---------------|---------------|
| Model | FE2AJ1A-FCCAE | FE2AL1A-FCCAE | FE2AL1G-FCCAE | FE2AP1G-FCCAE | FE2AP1A-FNCAE |
| Suspension | Leaf | | Air | | Leaf |
| Wheel base (WB) | 4,290 | 4,890 | 4,890 | 5,540 | 5,540 |
| Max Nominal Body Length | 6.2m | 7.3m | 7.3m | 8.4m | 8.4m |
| Product Code | FE2AJ1A-FCCAE | FE2AL1A-FCCAE | FE2AL1G-FCCAE | FE2AP1G-FCCAE | FE2AP1A-FNCAE |
| OL | 7,285 | 8,135 | 8,135 | 9,145 | 9,145 |
| OW | 2,240 | 2,240 | 2,240 | 2,240 | 2,240 |
| OH | 2,510 | 2,505 | 2,495 | 2,495 | 2,505 |
| CA | 3,365 | 3,965 | 3,965 | 4,615 | 4,615 |
| FOH | 1,145 | 1,145 | 1,145 | 1,145 | 1,145 |
| ROH | 1,840 | 2,060 | 2,060 | 2,420 | 2,420 |
| RCH (at axle) | 925 | 925 | 840 | 840 | 920 |
| FT | 1,760 | 1,760 | 1,760 | 1,760 | 1,760 |
| RT | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| Kerb to Kerb | 15,000 | 16,800 | 16,800 | 19,000 | 19,000 |
| Wall to Wall | 16,400 | 18,200 | 18,200 | 20,400 | 20,400 |
| Indicative Chassis Mass – kg (10 litres of fuel, no tools or spare tyre & subject to a ±3% tolerance) | | | | | |
| Total | 3,935 | 4,010 | 3,985 | 4,115 | 4,145 |
| Front | 2,575 | 2,625 | 2,640 | 2,700 | 2,705 |
| Rear | 1,360 | 1,385 | 1,345 | 1,415 | 1,440 |
| GVM | 14,000 (optional 12,000 available on application) | | | | |
| GCM | 21,000 | | | | |



Drawings are for reference only to the table. For specific chassis layouts and dimensions please refer to Body Mounting Manual drawings.

| WARRANTY | | | |
|-------------------|--------------------|---|---|
| Medium Duty Model | Axle configuration | Standard warranty (whichever comes first) | Engine & Powerlines (whichever comes first) |
| FE 1426 | 4 x 2 | 24 months or 100,000kms | 36 months or 150,000kms |

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