



500 SERIES

FE 1424 AT SPRING 5540 CREW



*Overseas model pictured.
May contain items not standard to the NZ model.

Japan 2016 Emission Levels
(pPNLT, Euro 6 Equivalent)

4 x 2 Cab Chassis

KEY FEATURES

- | | |
|---|--|
| ✓ Vehicle Stability Control (VSC)
– incl. ABS & TC | ✓ Euro 6 Equivalent Emissions |
| ✓ Pre-Collision System (PCS) | ✓ Lane Departure Warning System (LDWS) |
| ✓ SRS Airbag System (Driver) | ✓ ECE-R29 Cab Strength Certified |
| ✓ Engine Retarder Brake (Jake Brake) | ✓ Adaptive Cruise Control (ACC) |

KEY SPECIFICATIONS

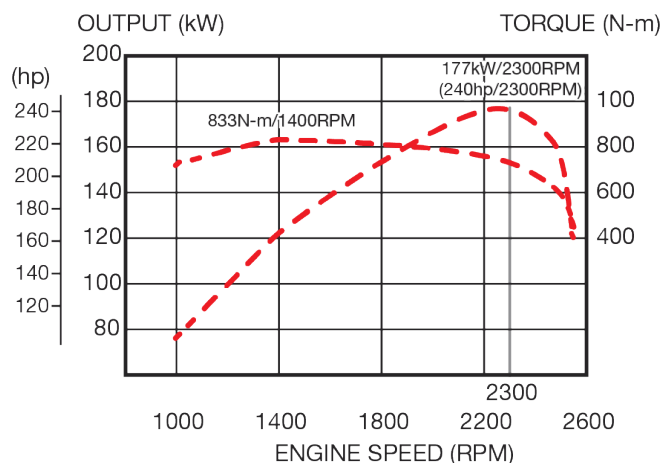
GVM	14,000 or 12,000kg
GCM	21,000kg
Power	240hp / 177kW
Torque	833Nm
Transmission	6 Speed Automatic
Wheelbase	5.5m

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ENGINE

Model	HINO A05C-TD
Max. Output (ISO NET)	240hp / 177kW @ 2,300 RPM
Max. Torque (ISO NET)	833Nm @ 1,400 RPM
Max. Engine RPM	2,550 RPM
Engine Compliance	ADR 80/03 using Japan 2016 pPNLT (Euro 6 Equivalent Emissions)
Type	Diesel, turbocharged and intercooled 4 cylinder with overhead camshaft
Combustion System	Direct injection with EGR
Bore & Stroke	112 x 130mm
Piston Displacement	5.123L
Compression Ratio	17.5:1
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

POWER & TORQUE CHART (ISO NET) A05C-TD



PERFORMANCE

Calculations based on 14,000kg GVM with 265/70R19.5 tyres

Engine RPM @ 100km/h	1,970
Max. Theoretical Speed (km/h)	129
Gradeability Tan (%) @ GVM	37.8

TRANSMISSION & GEAR RATIOS

Make & Description	Allison 2500, 6 Speed with Hino T-bar cable shift and MID gear display	
Type	Double overdrive	
Gear Ratios	1	3.512
	2	1.896
	3	1.439
	4	1
	5	0.737
	6	0.643
	Reverse	5.086
Torque Converter & Ratio	TC222, 1.58	
Rear Axle Ratio	4.875	
PTO Option / Torque Capacity	Dual / 339Nm	

BRAKES

Type	Drum brakes front and rear	
Control	Air Over Hydraulic (AOH), dual circuit	
Drum Diameter x Lining Width	Front	370 x 120mm
	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	
Exhaust & Engine Brake (Jake Brake)	Equipped	

FUEL TANK & SUPPLY

Material	Steel
Fuel Capacity	200L
Lockable Fuel Cap	Equipped
Prefilter & Sedimenter	Equipped
AdBlue® Capacity	19L

STEERING

Type	Telescopic tilt steering column, recirculating ball, integral power steering	
Gear Ratio	19.0:1	
Steering Angles	Inside – 53°	Outside – 38°

ELECTRICAL

Type	24V negative earth
Batteries	2 x 12V 120Ah 115F51
Alternator Capacity	24V x 90A
Starter Type	24V x 4.5kW
Headlamps	LED main beam with LED daytime running lamps
LED Cornering / Fog Lamps	Equipped
LED Interior & Reading Lamp	Equipped
Electric Air Horn	Equipped
CANBUS Connected	Equipped J1939 protocol (see BMM for details)

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SAFETY FEATURES

Active Safety Features	
Vehicle Stability Control (VSC)	Equipped
Anti-Lock Brake System (ABS)	Equipped
Pre-Collision System (PCS)	Equipped
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
Passive Safety Features	
SRS Airbag	Equipped (for driver)
SRS Seat Belt Pretensioner	Equipped (for driver)
Front Underrun Protection Device (FUPD)	Equipped
ECE-R29 Cab Strength Certified	Equipped

AXLE, SUSPENSION & LOAD LIMITS

AXLE, SUSPENSION & LOAD LIMITS			
Front	Front Axle Model	LF 451	
	Front Axle Type	I-Beam, Reverse Elliot	
	Front Suspension Type	Taper leaf springs with shock absorbers and stabiliser	
	Spring Dimensions	1,300 x 70mm	
	Number	4	
	Spring Rate (kgf/mm ²)	27	
	Axle Limit (incl. Suspension)	5,000kg	
	Tyre Limit	5,000kg	
Rear	Rear Axle Model	SH14	
	Rear Axle Type	Fully floating, single reduction by hypoid gears	
	Rear Suspension Type	Taper leaf main and auxiliary with shock absorbers	
	Suspension Dimensions	Main	Auxiliary
	Length x Width (mm)	1,300 x 70mm	900 x 70mm
	Number	4	5
	Spring Rate (kgf/mm ²)	29	104
	Axle Limit (incl. Suspension)	9,000kg	
	Tyre Limit	9,400kg	

CHASSIS FRAME

Main Section (depth x flange x thickness)	231.6 x 78 x 6.8mm
Chassis Width	820mm
Tensile Strength	540 N/mm ² (55 kgf/mm ²)
Tow Hook (Front & Rear)	2,000 kgf (max angle of 15°)
Type	Ladder-shaped channel section side rails

CAB DETAILS

Type	Forward control, rest cab, all steel construction with torsion bar tilt mechanism
Grille Colour	Matte grey
Seating Capacity	7
Driver's 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 & Overhead Console	Equipped (for driver and side passenger)
Windscreen Wipers	2 arm wiper and washers, 2 speed with intermittent
Cab Heater & Air Conditioner	Equipped with 4 speed fan. Rear heater and fan located under the seat
Auxiliary Power Supply	12V x 120W socket and USB 2.1A
Rear-View Mirrors	External: Electric and heated, 2 flat type, 2 convex spotters and kerb view
Floor Covering	Vinyl type
Central Locking & 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, CAN bus connected, and Wi-Fi enabled

INSTRUMENTATION

LCD Display	Meters & Gauges
✓ Date, Day, & Time	✓ Speedometer
✓ Temperature Gauge	✓ Tachometer
✓ Fuel & AdBlue® Gauges	✓ Air Gauges
✓ Odometer & Hour Meter	Additional Switches & Controls
Multi Information Display (MID)	✓ External Flat Mirror Control
✓ General Information	✓ VSC, PCS, & LDWS Off
✓ Cruise Control	✓ Idle Up & Quick Warm Up
✓ Eco Tree	✓ Mirror Heater
✓ Display Setting	✓ Engine Brake
✓ Safe Driving Settings	✓ DPR Regeneration
✓ System Check	✓ Electric Window Lock Out
Steering Wheel & Column Controls	✓ Headlight Leveller
✓ Cruise Control	✓ Hazard Lights
✓ MID Controls	✓ Power & Economy
✓ Headlights, Indicators, Window Wipers	✓ Gear Position

WHEELS & TYRES

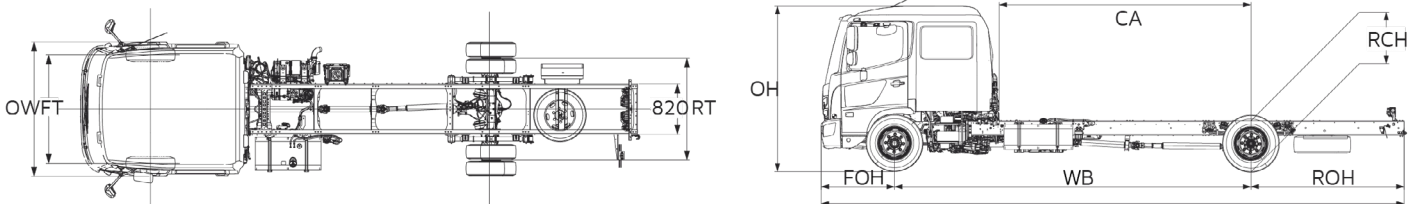
Wheel Type	8 stud disc wheel (ISO type) PCD 275
Rim Size	6.75" x 19.5" / 147mm offset (alloy)
Tyre Size	265/70R19.5 132/130
Number of Tyres	7 incl. spare
Spare Tyre Carrier	Equipped

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DIMENSIONS (MM)

Model	FE2AP1A-EXGAE
Product Code	FE 1424 AT SPRING 5540 CREW
Suspension	Leaf
Wheelbase (WB)	5,540
Overall Length (OL)	9,145
Overall Width (OW)	2,240
Overall Height (OH)	2,620
Cab to Axle Centre (CA)	3,900
Front Overhang (FOH)	1,145
Rear Overhang (ROH)	2,420
Rear Chassis Height (RCH) – at axle	920
Front Track (FT)	1,760
Rear Track (RT)	1,690
Kerb to Kerb	19,400
Wall to Wall	20,800
Indicative Chassis Mass (kg) – with 10L of fuel, no tools or spare tyre, and subject to a $\pm 3\%$ tolerance	
Total	4,245
Front	2,795
Rear	1,450
GVM	14,000 or 12,000
GCM	21,000

CHASSIS DRAWINGS (PLEASE REFER TO DIMENSIONS TABLE ABOVE)



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

WARRANTY (PLEASE REFER TO HDL WARRANTY CONDITIONS)

Standard Warranty	Engine & Powerlines
24 months or 100,000kms (whichever comes first)	36 months or 150,000kms (whichever comes first)

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