



500 SERIES

FG 1628 MT AIR LONG 9-SPD



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

Euro 5
Emissions Standard
4 x 2 Cab Chassis

KEY FEATURES

- | | |
|---|-------------------------------|
| ✓ Vehicle Stability Control (VSC) | ✓ SRS Airbag System (Driver) |
| ✓ Anti-Slip Regulator (ASR) | ✓ Reverse Camera |
| ✓ ISRI 6860/870 Driver's Seat with integrated safety belt | ✓ Cruise Control |
| ✓ ECE-R29 Cab Strength Certified | ✓ Polished Alcoa Alloy Wheels |

KEY SPECIFICATIONS

GVM	16,000 or 12,000kg
GCM	32,000kg
Power	280hp / 206kW
Torque	883Nm
Transmission	9 Speed Synchronesh Manual
Wheelbase	5.55m

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ENGINE

Model	HINO J08E-WA
Max. Output (ISO NET)	280hp / 206kW @ 2,500 RPM
Max. Torque (ISO NET)	883Nm @ 1,500 RPM
Max. Engine RPM	2,700 RPM
Engine Compliance	Euro 5
Type	Diesel, turbocharged & intercooled, 6 cylinder inline, overhead camshaft, fluid cooled
Combustion System	Direct injection
Bore & Stroke	112 x 130mm
Piston Displacement	7.687L
Compression Ratio	18.0:1
Engine Oil Capacity	13.5L
Coolant Fluid Capacity	21.5L
Fuel Injection	Electronic control common rail
Air Compressor / Bore & Stroke	Single cylinder, fluid cooled, 85 x 40mm
Fan Clutch	Equipped
Exhaust	Horizontal
Emission Control System	SCR (AdBlue®)
Engine Immobiliser	Equipped

PERFORMANCE

Calculations based on 16,000kg GVM with 11R22.5 tyres

Engine RPM @ 100km/h	2,200
Max. Theoretical Speed (km/h)	112
Gradeability Tan (%) @ GVM	60.0

BRAKES

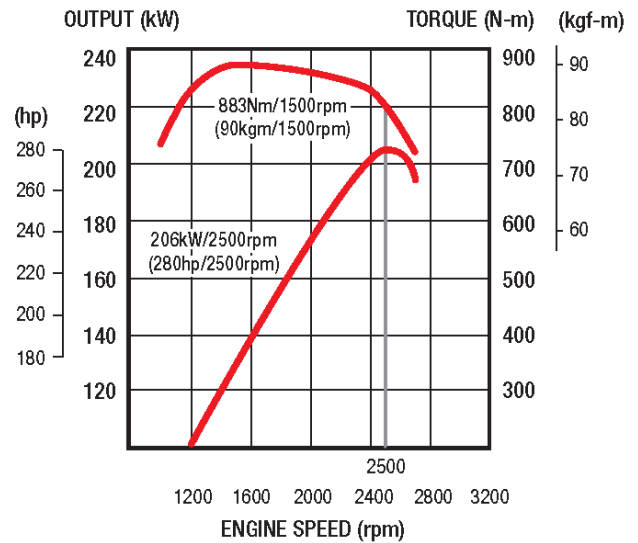
Type	Full air, 'S' cam	
Control	Dual circuit	
Drum Diameter x Lining Width	Front	410 x 150mm
	Rear	410 x 220mm
Air Dryer	Equipped	
Auto Brake Shoe Adjuster	Equipped	
Vehicle Stability Control (VSC)	Equipped	
Anti-Lock Brake System (ABS)	Equipped	
Anti-Slip Regulation (ASR)	Equipped	
East Start Hill Assist (ES)	Equipped	
Park Brake	Spring brake acting on rear axle	
Exhaust Brake	Equipped	

STEERING

Type	Telescopic tilt steering column with locking device, recirculating ball, integral power steering	
Steering Angles	Inner – 49°	Outer – 34°

POWER & TORQUE CHART (ISO NET) J08E-WA

J08E-WA



TRANSMISSION & GEAR RATIOS

Make & Description	Eaton ES11109 Manual 9 Speed	
Type	Synchromesh Manual with Overdrive	
Gear Ratios	1	12.637
	2	8.806
	3	6.550
	4	4.768
	5	3.548
	6	2.481
	7	1.845
	8	1.343
	9	1.000
Reverse	13.210	
Rear Axle Ratio	4.625:1	

CLUTCH

Model	CSP-380
Type	Dry single plate with damper springs
Clutch Plate	380mm Organic
Control	Hydraulic with air booster

FUEL TANK & SUPPLY

Material	Steel
Fuel Capacity	200L
Lockable Fuel Cap	Equipped
Prefilter & Sedimenter	Equipped
AdBlue® Capacity	59L

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SAFETY FEATURES

Active Safety Features

Vehicle Stability Control (VSC)	Equipped
Anti-Lock Brake System (ABS)	Equipped
Anti-Slip Regulator (ASR)	Equipped
Fog Lamps	Equipped
Reverse Buzzer	Equipped
Reverse Camera (RC)	Equipped

Passive Safety Features

SRS Airbag	Equipped (for Driver)
Front Underrun Protection Device (FUPD)	Equipped
ECE-R29 Cab Strength Certified	Equipped

AXLE, SUSPENSION & LOAD LIMITS

Front		
Front Axle Model		MF781R
Front Axle Type		Reversed Elliot I Section Beam
Front Suspension Type		Taper leaf springs with stabiliser
Spring Dimensions (length x width x thickness x number)		1,525 x 80 x 19 x 1 1,525 x 80 x 20.5 x 3
Spring Rate		32.4 kgf/mm
Axle Limit (incl. Suspension)		6,500kg
Rear		
Rear Axle Model		SH17
Differential Cross Lock		Equipped
Rear Axle Type		Fully floating, single reduction by hypoid gears
Rear Suspension Model		Hendrickson HAS 230
Rear Suspension Type		Air springs with double action shock absorbers
Axle Limit (incl. Suspension)		10,000kg

ELECTRICAL

Type	24V negative earth
Batteries	2 x 12V 120Ah (115F51)
Alternator Type	Brushless with built-in regulator
Alternator Capacity	24V x 90A
Starter Type	24V x 4.5kW
Headlamps	Halogen type with manual levelling
High/Low Beam	Equipped
Fog Lamps	White halogen type
Fluorescent Reading Lamp	Equipped
Electric Air Horn	Equipped

WHEELS & TYRES

Wheel Type	Alcoa Alloy 10-stud (ISO 335 PCD)
Rim Size	22.5 x 8.25 - 165mm offset
Tyre Size	275/70R22.5 148/145
Number of Tyres	7 (incl. spare)
Spare Tyre Carrier	Equipped

CAB DETAILS

Type	Forward control, all steel, welded construction, fully floating air suspended with electro-hydraulic power tilt
ECE-R29 Cab Strength Certified	Equipped
Seating Capacity	3
Rest Area	Equipped
Driver's SRS Airbag	Equipped
Driver's Seat	ISRI 6860/875, 7-way adjustable
Side Passenger Seat	High-back, reclining seat with fabric cover
Centre Passenger Seat	Urethane foam pads & foldaway type with seat back tray, fabric cover
Seat Belts	3 point lap sash for driver and side passenger, 2 point lap for centre position
Sunvisor & Overhead Console	Equipped
Windscreen Wipers	2 arm wiper and washers, 2 speed with intermittent
Ventilator	Forced type by electric blower
Cab Heater & Air Conditioner	Equipped
Auxiliary Power Supply	12V x 120W socket
External Rear-View Mirrors	2 flat type, electric and heated
	2 convex spotters
	Left side kerb view mirrors
Central Locking & Keyless Entry	Equipped with immobiliser
Cab Storage Pockets	Equipped
Power Windows	Equipped
Foot Rest	Equipped
Cup Holders	Centre tray and door pockets
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 Gauge	✓ Air Gauges
✓ AdBlue® Gauge	Additional Switches & Controls
✓ Odometer & Trip Meter	✓ VSC & ASR Off
Multi Information Display (MID)	✓ Air Con Controls
✓ General Information	✓ ECAS Height Control
✓ Cruise Control	✓ ES Control
✓ Display Settings	✓ Idle Up
✓ Warnings & Faults	✓ Quick Warm Up
Steering Wheel & Column Controls	✓ Powered Mirror Control & Heater
✓ Cruise Control	✓ Headlight Leveller
✓ MID Controls	✓ Hazard Lights
✓ Headlights, Indicators, Window Wipers	✓ Fog Lamps

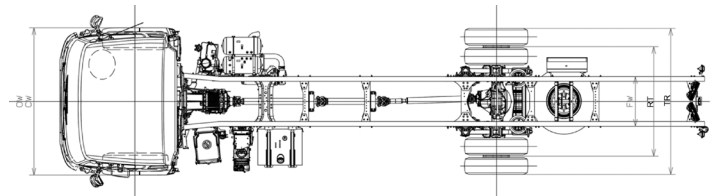
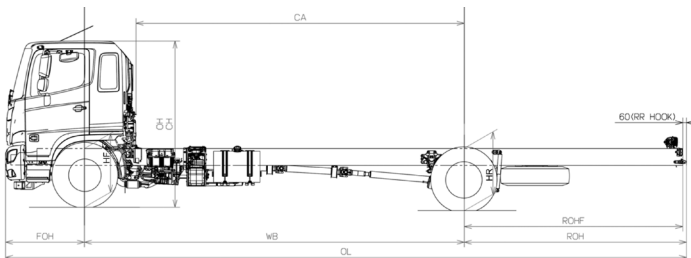
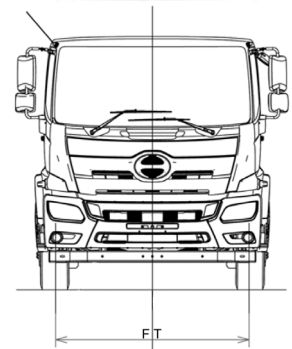
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DIMENSIONS (MM)

Model	FG8JP1G-XHN
Product Code	FG 1628 MT AIR 5550 – LONG
Suspension	Air
Wheelbase (WB)	5,550
Overall Length (OL)	9,545
Overall Width (OW)	2,490
Overall Height (OH)	2,725
Cab to Axle Centre (CA)	4,720
Front Overhang (FOH)	1,280
Rear Overhang (ROH)	2,655
Front Chassis Height (FCH)	975
Rear Chassis Height (RCH)	985
Front Track (FT)	2,070
Rear Track (RT)	1,855
Road Clearance (RC)	250
Kerb to Kerb	9,400
Wall to Wall	10,200
Indicative Chassis Mass (kg) – with 10L of fuel, spare tyre, no tools, and subject to a $\pm 3\%$ tolerance	
Total	5,550
Front	3,400
Rear	2,150
GVM	16,000 or 12,000
GCM	32,000

CHASSIS FRAME

Main Section (depth x flange x thickness)	277 x 80 x 8.0mm
Chassis Width	840mm
Tensile Strength	620 N/mm ² (63 kgf/mm ²)
Tow Hook (Front & Rear)	Equipped
Type	Ladder-shaped channel section side rails



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 250,000kms (whichever comes first)	36 months or 250,000kms (whichever comes first)

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