



# 500 SERIES

GH 1828 AT AIR



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

Euro 5  
Emission Levels

4 x 2 Cab Chassis

## KEY FEATURES

- |   |                               |
|---|-------------------------------|
| ✓ Vehicle Stability Control (VSC) & Anti-Slip Regulator (ASR) * – incl. ABS | ✓ SRS Airbag System (Driver)  |
| ✓ Differential Cross Lock   | ✓ 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	18,000kg
GCM	38,000kg
Power	280hp / 206kW
Torque	883Nm
Transmission	6 Speed Automatic
Wheelbase	5.1m

\* VSC & ASR will be unavailable with trailer application.

## 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	ADR 80/03 using Euro 5
Type	Diesel, turbocharged & intercooled, 6 cylinder inline, overhead camshaft, fluid cooled
Combustion System	Direct injection
Bore & Stroke	112 x 130mm
Piston Displacement	7.684L
Compression Ratio	18.0:1
Engine Oil Capacity	13.5L
Coolant Fluid Capacity	25L
Fuel Injection	Electronic control common rail
Air Compressor / Bore & Stroke	Single cylinder, fluid cooled, 85 x 40mm
Air Cleaner	Dual paper elements
Fan Clutch	Equipped
Exhaust	Horizontal
Emission Control System	SCR (AdBlue®)
Engine Immobiliser	Equipped

## PERFORMANCE

Calculations based on 18,000kg GVM with 11R22.5 tyres

Engine RPM @ 100km/h	2,200
Max. Theoretical Speed (km/h)	122
Gradeability Tan (%) @ GVM	53.5
Speed Limiter to (km/h)	100

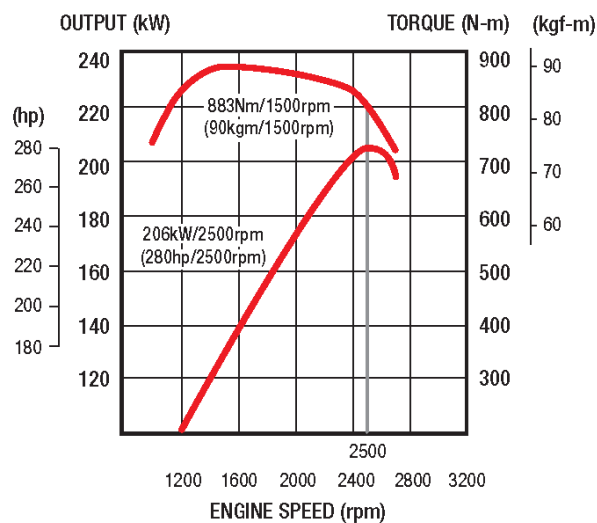
## BRAKES

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 Adjusters	Equipped	
Vehicle Stability Control (VSC)	Equipped *	
Anti-Lock Brake System (ABS)	Equipped	
Anti-Slip Regulator (ASR)	Equipped *	
Park Brake	Spring brake acting on rear wheels	
Exhaust Brake	Equipped	

## STEERING

Type	Telescopic tilt steering column, recirculating ball, integral power steering	
Steering Angles	Inside – 49°	Outside – 34°

## POWER & TORQUE CHART (ISO NET) J08E-WA



## TRANSMISSION & GEAR RATIOS

Make & Description	Allison 3000, 6 Speed with Electronic Control	
Type	Double Overdrive	
Gear Ratios	1	3.487
	2	1.864
	3	1.409
	4	1
	5	0.750
	6	0.653
Reverse	5.027	
Torque Converter & Ratio	TC415, 2.35	
Rear Axle Ratio	6.428	

## 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 5.0kW
Headlamps	Halogen type with manual levelling
High/Low Beam	Equipped
LED Fog Lamps (White)	Equipped
Fluorescent Reading Lamp	Equipped
Electric Air Horn	Equipped

## FUEL TANK & SUPPLY

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

\* VSC & ASR will be unavailable with trailer application.

\*\* Optional tyre sizes require approval.

## SAFETY FEATURES

Active Safety Features	
Vehicle Stability Control (VSC)	Equipped *
Anti-Lock Brake System (ABS)	Equipped
Anti-Slip Regulator (ASR)	Equipped *
Reverse Camera (RC)	Equipped
Reverse Buzzer	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	MF 78IR
	Front Axle Type	I-Beam, Reverse Elliot
	Front Suspension Type	Taper leaf springs with shock absorbers and stabiliser
	Spring Dimensions (length x width x thickness x number)	1,700 x 90 x 28.8mm x 1 1,700 x 90 x 30.3mm x 1
	Spring Rate (kgf/mm <sup>2</sup> )	32.8
	Axle Limit (incl. Suspension)	7,500kg
Rear	Rear Axle Model	SH17
	Differential Cross Lock	Equipped
	Rear Axle Type	Fully floating with differential cross lock, single reduction by hypoid gears
	Rear Suspension Type	Hendrickson HAS 230 with ECAS Height Control
	Axle Limit (incl. Suspension)	11,500kg

## WHEELS & TYRES

Wheel Type	10 stud disc wheel (ISO type) PCD 335	
Rim Size	8.25" x 22.5" / 165mm offset (alloy)	
	Option: 11.75" x 22.5"	
Tyre Size	Front	Rear
	275/70R22.5	275/70R22.5
	FR Options **: 11R22.5 385/55R22.5 385/65R22.5 355/50R22.5	RR Option **: 11R22.5
Number of Tyres	7 incl. spare	
Spare Tyre Carrier	Equipped	

## CHASSIS FRAME

Main Section (depth x flange x thickness)	275 x 80 x 7mm
Chassis Width	840mm
Tensile Strength	620 N/mm <sup>2</sup> (63 kgf/mm <sup>2</sup> )
Tow Hook (Front & Rear)	Equipped
Type	Ladder-shaped channel section side rails with grid hole design

## CAB DETAILS

Type	Forward control, rest cab, all steel construction on full floating coil spring suspension with electro hydraulic tilt mechanism
Seating Capacity	3 (2 – no centre seat – for F68JF)
Driver's SRS Airbag	Equipped
Driver's Seat	ISRI 6860/875 air suspension, multi-adjustable, high back with lumbar support and integrated safety belt
Side Passenger Seat	High back and reclining seat with air suspension
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
Ventilator	Forced type by electric blower
Cab Heater & Air Conditioner	Equipped
Auxiliary Power Supply	12V x 120W socket
Rear-View Mirrors	<b>External:</b> Electric and heated, 2 flat type, 2 convex spotters and kerb view
Floor Covering	Vinyl type
Central Locking & Keyless Entry	Equipped
Cab Storage Pockets	Equipped in both side doors
Power Windows	Equipped
Foot Rest	Equipped
Cup Holders	Equipped
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

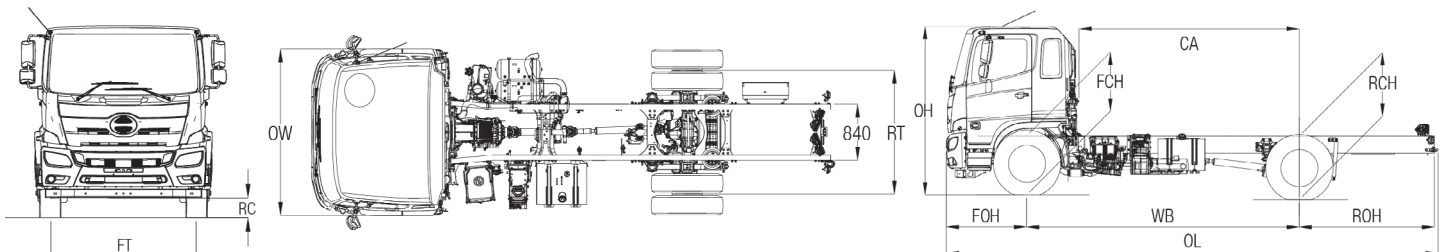
Meters & Gauges	Steering Wheel & Column Controls
✓ Speedometer	✓ Cruise Control
✓ Tachometer	✓ MID Controls
✓ Air Gauges	✓ Headlights, Indicators, Window Wipers
LCD Display	Additional Switches & Controls
✓ Date, Day, & Time	✓ External Flat Mirror Control
✓ Temperature Gauge	✓ VSC Off
✓ Fuel Gauge	✓ ASR Off
✓ AdBlue® Gauge	✓ Idle Up
✓ Odometer & Trip Meter	✓ Quick Warm Up
Multi Information Display (MID)	✓ Mirror Heater
✓ General Information	✓ Air Conditioner Controls
✓ Cruise Control	✓ Electric Window Lock Out
✓ Display Setting	✓ Headlight Leveller
✓ Warnings & Faults	✓ Hazard Lights
✓ Fuel Consumption	✓ Fog Lamps
✓ Service Reminders	✓ ECAS Height Control

\* VSC & ASR will be unavailable with trailer application.

## DIMENSIONS (MM)

Model	GH8JM1G-WHU
Product Code	GH 1828 AT AIR MEDIUM LONG
Suspension	Air
Wheelbase (WB)	5,100
Overall Length (OL)	8,695
Overall Width (OW)	2,490
Overall Height (OH)	2,755
Cab to Axle Centre (CA)	4,270
Front Overhang (FOH)	1,280
Rear Overhang (ROH)	2,255
Front Chassis Height (FCH)	1,005
Rear Chassis Height (RCH)	1,030
Front Track (FT)	2,050
Rear Track (RT)	1,835
Road Clearance (RC)	250
Kerb to Kerb	17,400
Wall to Wall	19,000
Indicative Chassis Mass (kg) – with 10L of fuel, no tools or spare tyre, and subject to a $\pm 3\%$ tolerance	
Total	5,433
Front	3,520
Rear	1,923
GVM	18,000
GCM	38,000

## 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 150,000kms (whichever comes first)	36 months or 200,000kms (whichever comes first)

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