



500 SERIES

FM 2628



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

Euro 5
Emission Levels

6 x 4 Cab Chassis

KEY FEATURES

- | | |
|---|-------------------------------|
| ✓ Vehicle Stability Control (VSC) * & Anti-Slip Regulator (ASR) * – incl. ABS | ✓ SRS Airbag System (Driver) |
| ✓ Inter-Axle Differential & Cross Locks | ✓ 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	26,000 or 18,000kg
GCM	33,000kg (Automatic) 38,000kg (Manual)
Power	280hp / 206kW
Torque	883Nm
Transmission	6 Speed Automatic 9 Speed Manual
Wheelbase	4.2m, 5.3m

* VSC & ASR will be unavailable with trailer application.

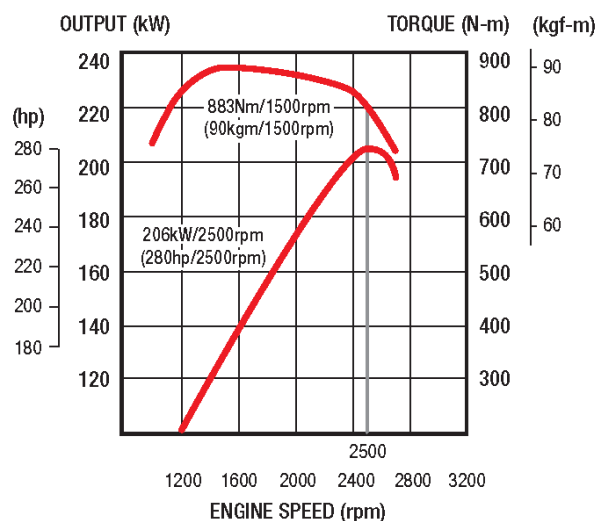
ENGINE	
Model	HINO J08E-WA
Max. Output (ISO NET)	280hp / 206kW @ 2,500 RPM
Max. Torque (ISO NET)	883Nm @ 1,500 RPM
Max. Engine RPM	2,700 RPM
Engine Compliance	ADR 80/03 using Euro 5
Type	Diesel, turbocharged & intercooled, 6 cylinder inline, overhead camshaft, fluid cooled
Combustion System	Direct injection
Bore & Stroke	112 x 130mm
Piston Displacement	7.684L
Compression Ratio	18.0:1
Engine Oil Capacity	13.5L
Coolant Fluid Capacity	Auto: 25L Manual: 21.5L
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 26,000kg GVM with 11R22.5 tyres			
Transmission	Automatic		Manual
Wheelbase	Medium	Long	Medium
Engine RPM @ 100km/h	2,100	2,200	2,440
Max. Theoretical Speed (km/h)	128	122	112
Gradeability Tan (%) @ GVM	44.9	47.5	38.2
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 FA & FR axles	
Exhaust Brake	Equipped	
Easy Start Hill Assist (ES)	Equipped on Manual model	

CLUTCH (MANUAL MODELS ONLY)	
Model	CS-380
Type	Dry single plate with damper springs
Clutch plate	380mm Organic
Control	Hydraulic with Air Booster

POWER & TORQUE CHART (ISO NET) J08E-WA



TRANSMISSION & GEAR RATIOS

Transmission	Automatic	Manual
Make & Description	Allison 3500, 6 Speed with Electronic Control	Eaton ES11109 9 Speed Synchro with Cable Control
Type	Double Overdrive	Direct Drive
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
	Reverse	13.210
Torque Converter & Ratio	TC415, 2.35	-
Rear Axle Ratio	6.428	

FUEL TANK & SUPPLY

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

WHEELS & TYRES

Suspension	Air	Leaf
Wheel Type	10 stud disc wheel (ISO type) PCD 335	
Rim Size	8.25" x 22.5" / 165mm offset (alloy)	
	FR Option: 11.75" x 22.5"	
Tyre Size	Front	11R22.5 148/145
	Rear	11R22.5 148/145
FR Option **: 385/55R22.5 or 385/65R22.5		
Number of Tyres	10	

* VSC & ASR will be unavailable with trailer application.

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
Easy Start Hill Assist (ES)	Equipped on Manual model
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 781R			
	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 70 x 30.3mm x 1			
	Spring Rate (kgf/mm ²)	32.8			
	Axle Limit (incl. Suspension)	7,500kg			
Rear	Model	Air	Leaf		
	Rear Axle Model	THD17 & SH17			
	Inter-Axle Differential Lock	Equipped			
	Differential Cross Lock	Equipped on FR & RR axles			
	Rear Axle Type	Fully floating with inter-axle differential & cross locks, single reduction by hypoid gears			
	Rear Suspension Type	Hendrickson HAS 460 with double acting shock absorbers and ECAS Height Control	Semi-elliptic multi leaf (Hino 6 Rod)		
	Suspension Dimensions		Medium	Long	
	Length x Width x Thickness (mm) x Number		1,350 x 90 x 20 x 10	1,350 x 90 x 20 x 6	
				1,350 x 90 x 18 x 3	
	Spring Rate (kgf/mm ²)		293.4	234.0	
Axle Limit (incl. Suspension)	20,000kg				

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 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

STEERING

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

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 FG8JF)
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	External: 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 & Heater
✓ Temperature Gauge	✓ VSC & ASR Off
✓ Fuel Gauge	✓ Idle Up & Quick Warm Up
✓ AdBlue® Gauge	✓ Air Conditioner Controls
✓ Odometer & Trip Meter	✓ Electric Window Lock Out
Multi Information Display (MID)	✓ Headlight Leveller
✓ General Information	✓ Hazard Lights & Fog Lamps
✓ Cruise Control	✓ ES Start Control (Manual models)
✓ Display Setting	✓ ECO Run (Manual models)
✓ Warnings & Faults	✓ ECAS Height Control (Air models)

CHASSIS FRAME

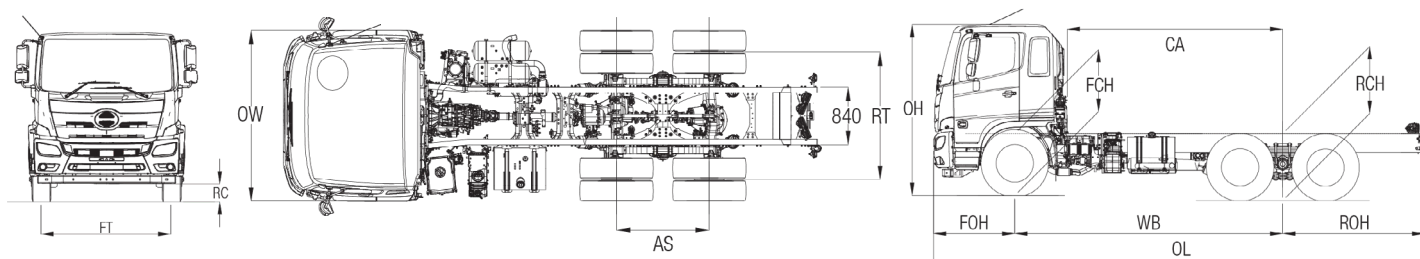
Main Section (depth x flange x thickness)	298 x 80 x 7mm
Chassis Width	840mm
Tensile Strength	620 N/mm ² (63 kgf/mm ²)
Tow Hook (Front & Rear)	Equipped
Type	Ladder-shaped channel section side rails with grid hole design

* VSC & ASR will be unavailable with trailer application.

DIMENSIONS (MM)

Model	FM8JL1M-WHU	FM8JL1M-XHU	FM8JR1G-WHU
Product Code	FM 2628 AT SPRING MEDIUM	FM 2628 MT SPRING MEDIUM	FM 2628 AT AIR LONG
Suspension	Leaf	Air	Leaf
Wheelbase (WB)		4,255	5,310
Axle Spread (AS)		1,350	1,330
Overall Length (OL)		7,845	9,295
Overall Width (OW)			2,490
Overall Height (OH)	2,755	2,760	2,755
Cab to Axle Centre (CA)	3,300	3,425	4,480
Front Overhang (FOH)		1,280	
Rear Overhang (ROH)		2,250	2,645
Front Chassis Height (FCH)	1,030	1,035	1,030
Rear Chassis Height (RCH)		1,070	1,045
Front Track (FT)		2,050	
Rear Track (RT)	1,840	1,855	1,840
Road Clearance (RC)		250	
Kerb to Kerb	15,800	15,600	19,000
Wall to Wall	17,400	17,200	20,600
Indicative Chassis Mass (kg) – with 10L of fuel, no tools or spare tyre, and subject to a ±3% tolerance			
Total	7,202	7,017	6,883
Front	3,504	3,344	3,524
Rear	3,698	3,673	3,359
GVM		26,000 or 18,000	
GCM	33,000	38,000	33,000

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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