

SS 2848

# HINO

## 7000 Series



**ADR 80/03 Model**  
**6 x 4 Cab Chassis**

\* Illustration may contain item not standard to the model

## KEY FEATURES

- Hi Roof option
- ProShift 16 Automated Manual Transmission (AMT) option
- Transmission Intarder (AMT models only)
- Air Rear Suspension
- Jacob Type Engine Brake
- Heated & Electrically Operated External Mirrors
- Cruise Control
- ISRI 6860/870 Drivers Seat with Integrated Safety Belt
- Drivers SRS Airbag
- ECE R29 Cab Strength Compliance

## KEY SPECIFICATIONS

<b>GVM</b> . . . . .	28,300kg
<b>GCM</b> . . . . .	72,000kg
<b>Power</b> . . . . .	353kW
<b>Torque</b> . . . . .	2157Nm
<b>Transmission</b> . . . . .	ZF AS TRONIC EATON RTLO 18918B
<b>Wheelbase</b> . . . . .	4005mm
<b>Nominal Body Length</b> . . . . .	5590mm

A Toyota Group Company

 **HINO**  
A BETTER CLASS OF TRUCK



# SS 2848

## Engine, Driveline & Chassis specifications

### ENGINE

Model	Hino E13C VG
Max. output (ISO NET) @ 1800 RPM	353kW (480 HP)
Max. output (JIS GROSS) @ 1800 RPM	360kW (490 HP)
Max. torque (ISO NET) @ 1100 RPM	2157Nm (220 kgf/m)
Max. torque (JIS GROSS) @ 1100 RPM	2197Nm (224 kgf/m)
Max. engine speed	1900rpm
Engine compliance	ADR 80/03
Type	Diesel, turbo charged & inter-cooled, 6 cylinder in-line, overhead camshaft
Combustion system	Direct injection type with Cooled-EGR
Bore & stroke	137 x 146mm
Piston displacement	12.913L
Compression ratio	17.0:1
Engine oil capacity	37.0L
Engine coolant capacity	27.4L
Fuel injection pump	Electronic control common rail
Governor	Electric
Air cleaner	Dual paper elements
Air compressor	Single cylinder, water cooled
Bore & stroke	95 x 70mm
Exhaust	Horizontal outlet
Emission Control System	EGR & SCR meeting ADR 80/03 using Euro 5 STD

### CLUTCH

	Manual	ProShift 16
Model	Hino CR-380	CS-430 Series
Type	Dry twin plate with damper springs	Single plate with damper springs
Control	Hydraulic with air booster	Automated & Auto adjusting
Facing material	Ceramic	Organic
Facing diameter	387mm	430mm

### TRANSMISSION

	SS 2848 Manual		SS 2848 AMT	
Make & Model	Eaton RTLO Road Ranger		ZF AS Tronic	
Code	RTLO 18918B		ZF 2631 TO	
Type	18 forward & 4 reverse		16 forward & 2 reverse	
Control	Mechanical		Electronic	
Gear Ratios	Manual		AMT	
Gear Position	1st . . 14.402	12th . . 1.952	1st . . 14.120	12th . . . 1.728
	2nd . . 12.287	13th . . 1.617	2nd . . 11.677	13th . . . 1.428
	3rd . . . 8.561	14th . . 1.379	3rd . . . 9.539	14th . . . 1.181
	4th . . . 7.303	15th . . 1.172	4th . . . 7.889	15th . . . 1.000
	5th . . . 6.048	16th . . 1.000	5th . . . 6.521	16th . . . 0.827
	6th . . . 5.160	17th . . 0.855	6th . . . 5.393	Rev 1 . . 13.704
	7th . . . 4.384	18th . . 0.730	7th . . . 4.565	Rev 2 . . 10.812
	8th . . . 3.740	Rev 1 . 15.057	8th . . . 3.766	
	9th . . . 3.201	Rev 2 . 12.845	9th . . . 3.093	
	10th . . 2.731	Rev 3 . 4.025	10th . . 2.558	
	11th . . 2.288	Rev 4 . 3.434	11th . . 2.089	

### PERFORMANCE

	SS 2848 Manual	SS 2848 AMT
Calculation based on GCM with 11R22.5 drive tyres	72,000	72,000
Final drive ratio	4.555 to 1	3.9 to 1
Engine RPM @ 100km/h	1750	1693
Max theoretical speed (km/h)	108	112
Gradeability Tan Θ (%) @ GCM	38.0	31.0
All models electronically speed limited to 100km/h		

### BRAKES

Type	Full air, dual circuit, "S" cam type, leading & trailing shoes for front & rear with auto slack adjuster	
Size	Front	406.4 x 152mm
	Rear	406.4 x 216mm
Air drier	Equipped	
Anti-lock Brake System (ABS)	Equipped	
Trailer brake control	Hand control on dash	
Park brake	Spring brake acting on 1st and 2nd axles	
Engine brake	Engine compression brake equipped	
Transmission brake	ZF Intarder (AMT models only)	

### AXLE, SUSPENSION & LOAD LIMITS

	Front Axle Model	MF 781 series
Type	Reverse Elliot I-Beam	
Suspension	Semi-elliptic taper leaf springs with shock absorbers & stabiliser	
Spring Dimensions	1700 x 90mm	
Number of Leafs	3	
Spring Rate	34.1 kgf/mm	
Axle Limit (including suspension)	7500 kg	
Tyre Limit	7100 kg	
Rear Axle Model	THD 18 Tandem Axle	
Type	Bogie drive with inter-axle differential lock, fully floating single reduction by Hypoid gears	
Rear Rear Cross Lock	Fitted	
Suspension	Hendrickson HAS 460 airbag with double acting shock absorbers and dump valve	
Road Friendly Suspension Rating	N/o RF2005	
Axle Limit (including suspension)	21,000 kg	
Tyre Limit	23,200 kg	

### WHEELS & TYRES

Wheel type	10 stud disc wheels (ISO 335 PCD)
Rim size	22.5 x 8.25- offset 165mm
Tyre size	Front: 295/80R22.5 152/148 Rear: 11R22.5-148/145
Number of tyres	11 (including spare)
Tools included	Wheelbrace and jack

### FUEL TANK

Type	Square aluminium
Volume	Left side 450L . . . . . Right side 250L
Total	700L
Fuel pre-filter & sedimenter	Equipped
Locking fuel caps	Equipped
AdBlue® tank capacity	2 x 28L Total 56L



# SS 2848

## Cab equipment & Instrumentation

### CAB DETAILS

Type . . . . .	Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism
Hi Roof Cab . . . . .	Optional
Grill colour . . . . .	Chrome
Driver SRS Airbag . . . . .	Equipped
Front Underrun Protection . . . . .	Equipped
Seating capacity . . . . .	2, optional 3
Driver's seat . . . . .	ISRI 6860/870 Urethane foam pads, high-back, lumbar support, Multi adjustable, air suspended, with integrated Safety Belt
Passenger seat . . . . .	Urethane foam pads, high back & reclining seat with fabric cover
Centre console . . . . .	Equipped
Seat belts . . . . .	3-point type on driver's & side passenger seats
Rear view mirrors . . . . .	2 external electrically controlled, flat type mirrors with heaters and spotters and kerb view
Windshield wipers . . . . .	Electric, triple-arm, with intermittent & 2 speed control
Sun visor & overhead console . . . . .	Equipped
Centre overhead console . . . . .	Equipped
Cigarette lighter (24 volt) . . . . .	Equipped
Electrical converter . . . . .	12V (harness type)
Ventilator . . . . .	Forced type with electric blower
Heater & defroster . . . . .	Equipped
Air conditioner . . . . .	Equipped
Sleeper berth . . . . .	Single, with blackout curtains (ADR Compliant)
Audio . . . . .	DAB+ AM/FM radio/CD & DVD player with Bluetooth
Speakers . . . . .	Driver, passenger & centre
Floor mat . . . . .	Vinyl mat
Front air spoiler . . . . .	Equipped
Cab step . . . . .	Equipped
Trim . . . . .	Full trim type / side roof back
Electric power windows . . . . .	Both sides
Electric door lock . . . . .	Remote control keyless entry
Cab pockets . . . . .	Both door sides & passenger seat
Cruise Control . . . . .	Equipped

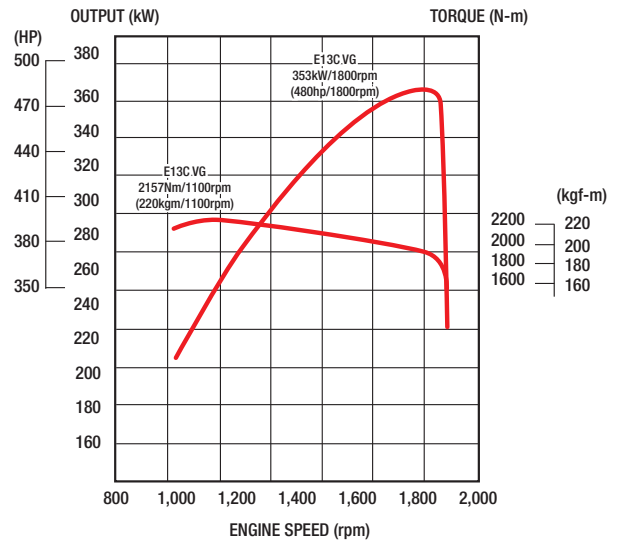
### ELECTRICAL

Type . . . . .	24 volts, negative earth
Batteries . . . . .	12V x 2 series connection
Capacity . . . . .	150Ah at 20 hour rate
Alternator . . . . .	Brushless type 24V, 90A with built-in rectifier & voltage regulator
Starter . . . . .	24V, 6.0kW
Lamps . . . . .	Gas discharge (HID) headlamps, fog lamps, cornering lamps, room lamp (fluorescent lamp), map lamp

### STEERING

Steering column . . . . .	Telescopic & tilt with locking device
Steering box . . . . .	Recirculating ball with Integral Power Steering
Gear ratio . . . . .	25.2:1
Steering angle . . . . .	Inside 49°    Outside 35°

### POWER & TORQUE CHART (ISO NET) E13C VG



### INSTRUMENTS

#### 1. Meters and gauges

- Speedometer with trip meter
- Odometer
- Fuel gauge
- Tachometer
- Coolant temperature gauge
- Air pressure gauge x 2

#### 2. Switches

- Lights
- Indicators, dimmer & passing
- Wiper & washer
- Hazard lamp
- Fog lamp
- Room lamp
- Warning lamp check
- Map lamp
- Inter axle lock
- Rear differential cross lock
- Mirror heating
- Economy running
- Engine brake
- Cruise Control
- Suspension dump

#### 3. Warning, pilot lamps and buzzers

- Engine oil pressure warning lamp & buzzer
- Air pressure warning lamp & buzzer
- High beam indicator lamp
- Turn signal indicator lamp
- Parking brake indicator lamp
- Coolant level warning lamp & buzzer
- Differential lock indicator lamp
- Engine over-run warning buzzer
- Battery charging indicator lamp
- Fuel filter water level warning lamp
- Transmission range (Eaton only)
- ABS warning lamp
- Trailer brake indicator lamp

#### 4. Others

- One key starting-stopping
- Horn button
- Idle up control knob
- Gear display (ProShift 16 only)

### CHASSIS FRAME

Type	Ladder-shaped channel section side rails
Chassis width (at rear)	840mm
Main section in mm (depth x flange x thickness)	298 x 90 x 7.0mm
Main section tensile strength	620 N/mm <sup>2</sup> (63 kgf/mm <sup>2</sup> )
Tow hook (front)	Supplied
Front underrun protection	Equipped

### GENUINE ACCESSORY OPTIONS

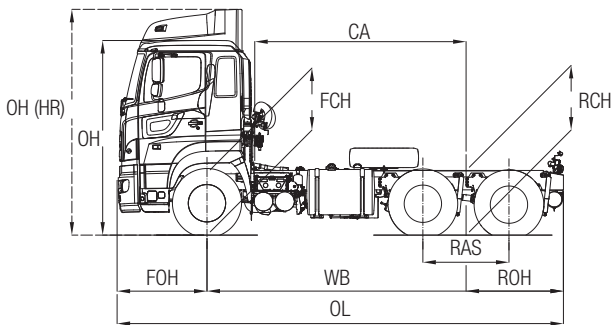
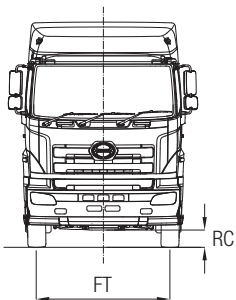
Bull bar	Stoneguard
Chrome wheel covers	Woodgrain dash panel
Sat Nav	Transmission PTO (ProShift 16 only)
Rear vision camera (up to 3)	

**Please check with your dealer for price, availability & fitment for these options**



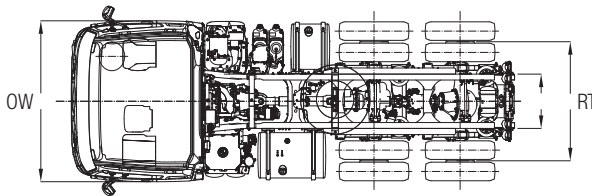
SS 2848

## Dimensions



### DIMENSIONS – mm / Capacities

Model 700 Series	SS 2848 Air	SS 2848 ProShift 16 Air	SS 2848 ProShift 16 Hi Roof Air
Model code	SS1EKLG-WAZ	SS1EKLG-VXZ	SS1EKLG-VYZ
Nominal Body Length (WB x 0.6) + CA – 100	5,590		
Wheelbase (WB)	4,005		
Overall length (OL)	6,895		
Overall width (OW)	2,490		
Overall height (OH)	2,995	3,480	
Cab to rear axle centre (CA)	3,295		
Front overhang (FOH)	1,380		
Rear overhang (ROH)	1,510		
Front chassis height (FCH)	990		
Rear chassis height (RCH)	1,040		
Road clearance (at diff. case) (RC)	210		
Front track (FT)	2,050		
Rear track (RT)	1,840		
Turning circle (kerb to kerb)	15,000		
Turning circle (wall to wall)	16,640		
<b>Chassis mass – kg</b> (standard tools, 10 litres of fuel, spare tyre & subject to a ±3% variance)			
Total	8,310	8,185	8,225
Front	4,835	4,720	4,765
Rear	3,475	3,465	3,460
GVM	28,300		
GCM	72,000		



### WARRANTY

New vehicle warranty period

Heavy Duty Model	Axle configuration	Standard warranty (whichever comes first)	Engine component warranty (whichever comes first)	Cab corrosion perforation
700 SS 2848	6 x 4	3 years or 500,000km	60 months or 750,000km	36 months

Battery warranty – 12 months from date of delivery

Genuine parts or accessories warranty – 3 years unlimited kilometres when fitted by an authorised Hino dealer \*

\* For conditions, refer to the Hino Parts & Service warranty brochure



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