

FS 2844  
FS 2848

# HINO

## 700 Series



6 x 4 Cab Chassis

\* Illustration may contain item not standard to the model

## KEY FEATURES

- Automated Manual Transmission (AMT) option
- Transmission Intarder (AMT models only)
- Air Rear Suspension options
- 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>		28,000kg
<b>GCM</b>	FS 2844	55,000kg
	FS 2848	72,000kg
<b>Power</b>	FS 2844	321kW
	FS 2848	353kW
<b>Torque</b>	FS 2844	2,059Nm
	FS 2848	2,157Nm
<b>Transmission</b>	AMT	ZF TraXon
	Manual	EATON RTLO
<b>Wheelbase</b>		4,005mm, 4,305mm, 6,267mm
<b>Nominal Body Length</b>		5,590mm, 6,090mm, 9,180mm

## ENGINE

	FS 2844	FS 2848
Model	Hino E13C WB	Hino E13C VG
Max. output (ISO NET) @ 1,800rpm	321kW (437 hp)	353kW (480 hp)
Max. torque (ISO NET) @ 1,100rpm	2,059Nm	2,157Nm
Max. engine speed	1,900rpm	
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	
Fuel injection pump	Electronic control common rail	
Air cleaner	Dual paper elements	
Air compressor	Single cylinder, water cooled	
Bore & stroke	95 x 70mm	
Exhaust	Horizontal outlet	
Emission Control System	EGR & SCR (AdBlue®) meeting ADR 80/03 using Euro 5 STD	

## CLUTCH

	Manual (MT)	Automated Manual (AMT)
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

	FS 2844 Manual		FS 2848 Manual		FS 2844 AMT		FS 2848 AMT	
Make and Model	Eaton RTLO Road Ranger				ZF TraXon			
Code	RTLO 16918B		RTLO 18918B		ZF16 TX2441T0			
Type	18 forward and 4 reverse				16 forward and 2 reverse			
Control	Mechanical				Electronic			
Gear Ratios	Manual				AMT			
Gear Position	1	14.402	12	1.952	1	14.680	12	1.780
	2	12.287	13	1.617	2	12.050	13	1.490
	3	8.561	14	1.379	3	9.920	14	1.220
	4	7.303	15	1.172	4	8.140	15	1.000
	5	6.048	16	1.000	5	6.780	16	0.820
	6	5.160	17	0.855	6	5.560	Rev 1	14.140
	7	4.384	18	0.730	7	4.570	Rev 2	11.600
	8	3.740	Rev 1	15.057	8	3.750		
	9	3.201	Rev 2	12.845	9	3.220		
	10	2.731	Rev 3	4.025	10	2.640		
	11	2.288	Rev 4	3.434	11	2.170		

## PERFORMANCE

	FS 2844 Manual	FS 2844 AMT	FS 2848 Manual	FS 2848 AMT
Calculation based on GCM with 11R22.5 drive tyres	55,000	55,000	72,000	72,000
Final drive ratio	4.555 to 1	3.9 to 1	4.555 to 1	3.9 to 1
Engine rpm @ 100km/h	1,750	1,668	1,750	1,668
Max theoretical speed (km/h)	108	114	108	114
All models electronically speed limited to 100km/h				
Gradeability Tan $\theta$ (%) @ GCM	49.9	42.1	38.0	32.4

## BRAKES

Type	Full air, dual circuit, "S" cam type, leading & trailing shoes for front & rear with auto slack adjuster	
Drum	Front	406.4 x 152mm
Size	Rear	410.4 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	
FRONT	Type	Reverse Elliot I-Beam	
	Suspension	Semi-elliptic taper leaf springs with shock absorbers & stabiliser	
	Spring Dimensions	1,700 x 90mm	
	Number of Leaves	3	
	Spring Rate	49.9 kgf/mm	
	Axle Limit (including suspension)	7,500 kg	
	Tyre Limit	6,900 kg	
REAR	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	
	Models	V Rod Leaf Rear	HAS Air Rear
	Suspension	Semi-elliptic multi leaf with V Rod stabiliser & shock absorbers	Hendrickson HAS 460 airbag with double acting shock absorbers
	Spring Dimensions	1625 x 80mm	
	Number of Leafs	11	
	Spring Rates	251 kgf/mm	
	Axle Limit (including suspension)	21,800 kg	21,000 kg
	Tyre Limit	21,800 kg	21,800 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
Spare tyre carrier	Equipped

## FUEL TANK

Type	Square aluminium
Volume	390L
Fuel pre-filter & sedimenter	Equipped
Locking fuel cap	Equipped
AdBlue® tank capacity	28L

## CAB DETAILS

Type	Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism	
Grill colour	Grey (FS 2844)	Chrome (FS 2848)
Driver SRS Airbag	Equipped	
Seating capacity	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 2-point type for centre seat	
External rear view mirrors	Electrical and heated, 2 flat type	
	2 convex spotters and left side kerb view	
Windshield wipers	Electric, triple-arm, with intermittent & 2 speed control	
Sun visor and 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)	
Multi media system	6.5" LCD, HD touch screen display with DAB+ AM/FM radio, AUX input, Bluetooth® 4.1, Android 6.0, CANBUS connection and Wi-Fi enabled	
Speakers	Driver, passenger & centre	
Floor covering	Vinyl mat	
Front air spoiler	Equipped (2848 only)	
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	
Reverse camera	Supplied	

## ELECTRICAL

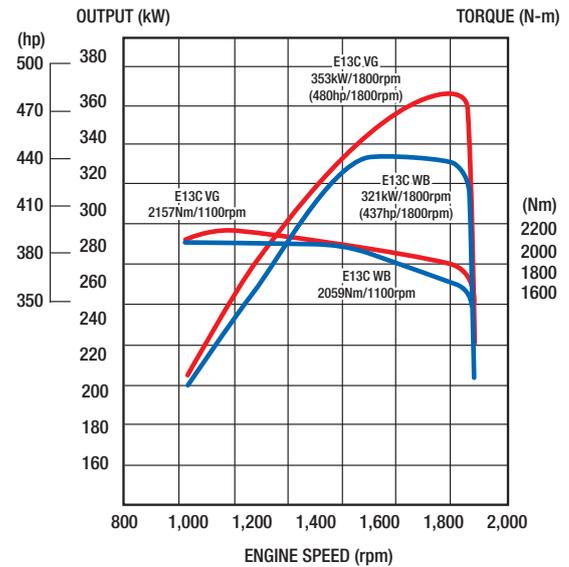
Type	24 volts, negative earth
Batteries	12V x 2 series connection
Capacity	150Ah at 20 hour rate
Alternator	Brushless type 24V, 90A with built-in rectifier and voltage regulator
Starter	24V, 6.0kW
Lamps	Headlamps, fog lamps, cornering lamps, room lamp (fluorescent lamp), map lamp

## 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 WB & VG

E13C-VG & WB



## INSTRUMENTS

Meters and gauges	Warning, pilot lamps and buzzers
Speedometer with trip meter	Engine oil pressure warning lamp & buzzer
Odometer	Air pressure warning lamp & buzzer
Fuel gauge	High beam indicator lamp
Tachometer	Turn signal indicator lamp
Coolant temperature gauge	Parking brake indicator lamp
Air pressure gauge x 2	Coolant level warning lamp & buzzer
<b>Switches</b>	Differential lock indicator lamp
Lights	Engine over-run warning buzzer
Indicators, dimmer & passing	Battery charging indicator lamp
Wiper & washer	Fuel filter water level warning lamp
Hazard lamp	Transmission range (Eaton only)
Fog lamp	ABS warning lamp
Room lamp	Trailer brake indicator lamp
Warning lamp check	<b>Others</b>
Map lamp	One key starting-stopping
Inter axle lock	Horn button
Rear differential cross lock	Idle up control knob
Mirror heating	Gear display (AMT only)
Economy running	Low speed (slow) (AMT only)
Engine brake	
Cruise Control	

## CHASSIS FRAME

	Leaf rear suspension	Air rear suspension
Type	Ladder-shaped channel section side rails	
Chassis width (at rear)	840mm	
Main section in mm (depth x flange x thickness)	300 x 90 x 8.0mm	
Main section tensile strength	620 N/mm <sup>2</sup>	
Tow hook (front) supplied	5,000 kg allowable load	
Front underrun protection	Equipped	

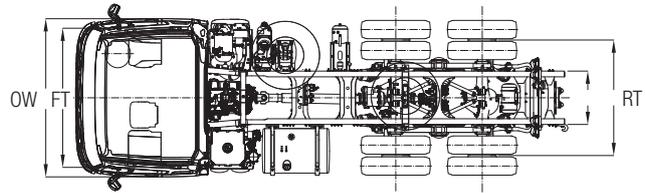
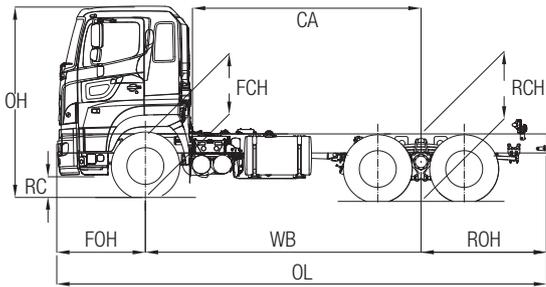
## GENUINE ACCESSORY OPTIONS

Bull bar	Stoneguard
Chrome wheel covers	Woodgrain dash panel
Sat Nav	Transmission PTO (AMT only)
Extra vision camera (up to 3)	DVR

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

## DIMENSIONS – MM/CAPACITIES

Model 700 Series Variant	FS 2844			FS 2848				
	Manual	Manual Air	AMT Leaf 4305	Manual	AMT Leaf 4305	AMT Air 4017	AMT Air 4317	AMT Air 6267
Model code	FS1ELLA-NAZ	FS1ELLG-NAZ	FS1ELLA-MRA	FS1ELLA-WAZ	FS1ELLA-VRA	FS1EKLG-VRZ	FS1ELLG-VRA	FS1EVLG-VRA
Wheelbase (WB)	4,305			4,017				
Nominal Body Length (WB x 0.6) + CA – 100 *Max overhang 3.7m	6,090			5,590				
Overall length (OL)	7,645			7,345				
Overall width (OW)				2,490				
Overall height (OH)	3,000			3,000			3,005	
Cab to rear axle centre (CA)	3,630			3,330			3,630	
Front overhang (FOH)				1,380				
Rear overhang (ROH)				1,948			3,248	
Front chassis height (FCH)	995			995			1,000	
Rear chassis height (RCH)	1,085		1,040		1,085		1,045	
Road clearance (at diff. case)	215		210		215		210	
Front track (FT)				2,050				
Rear track (RT)	1,820		1,840		1,820		1,840	
Turning circle (kerb to kerb)	15,800		16,000		15,800		21,800	
Turning circle (wall to wall)	17,400		17,560		17,400		23,600	
Chassis mass – kg (standard tools, 10 litres of fuel, spare tyre and subject to a ±3% variance)								
Total	8,965		8,250		8,885		8,655	
Front	4,860		4,655		4,927		4,869	
Rear	4,105		3,595		3,958		3,786	
GVM				28,000				
GCM	55,000			72,000				
Drive line and variance comparison								
E13C WB @ 437 hp	✓	✓	✓					
E13C VG @ 480 hp				✓	✓	✓	✓	✓
Eaton RTLO 16918B Transmission	✓	✓		✓				
Eaton RTLO 18918B Transmission				✓				
ZF TraXon 16 sp with interarder			✓		✓	✓	✓	✓
V Rod Leaf rear suspension	✓		✓	✓	✓			
Hendrickson HAS 460 rear Suspension		✓				✓	✓	✓



## 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 FS 2844 & FS 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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