

HINO

700 Series



* Illustration may contain item not standard to the model

8 x 4 Cab Chassis

KEY FEATURES

Twin Steer
 Automated Manual Transmission (AMT) option
 Air Rear Suspension option
 Jacob Type Engine Brake
 Heated & Electrically Operated External Mirrors
 Cruise Control
 ISRI 6860/870 Drivers Seat with Integrated Safety Belt
 Drivers SRS Airbag
 Anti-lock Brake System (ABS)

KEY SPECIFICATIONS

GVM.	32,000kg
GCM.	72,000kg
Power	353kW
Torque	2,157Nm
Transmission	ZF TraXon EATON RTLO 18918B
Wheelbase (front axle to centre of rear axle set)	5,955mm
Nominal Body Length	8,700mm

ENGINE

Model	Hino E13C VG
Max. output (ISO NET)	353kW (480 HP) at 1,800rpm
Max. torque (ISO NET)	2,157Nm at 1,100rpm
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 and 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	AMT
Model	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

	Manual				AMT			
Make and Model	Eaton RTLO Road Ranger				ZF TraXon			
Code	RTLO 18918B				ZF 16 TX2440TO			
Type	18 forward and 4 reverse				16 forward and 2 reverse			
Control	Mechanical				Electronic			
Gear Ratios	1	14.402	12	1.952	1	14.68	12	1.78
	2	12.287	13	1.617	2	12.05	13	1.49
	3	8.561	14	1.379	3	9.92	14	1.22
	4	7.303	15	1.172	4	8.14	15	1.00
	5	6.048	16	1.000	5	6.78	16	0.82
	6	5.160	17	0.855	6	5.56		
	7	4.384	18	0.730	7	4.57		
	8	3.740	Rev 1	15.057	8	3.75	Rev 1	14.14
	9	3.201	Rev 2	12.845	9	3.22	Rev 2	11.60
	10	2.731	Rev 3	4.025	10	2.64		
	11	2.288	Rev 4	3.434	11	2.17		

PERFORMANCE

Calculation based on GCM with 11R22.5 tyres	GCM 72,000 kg	
	Manual	AMT
Final drive ratio	4.555:1	3.900:1
Engine rpm @ 100km/h	1,750	1,668
Max theoretical speed (km/h)	108	114
Gradeability Tan Θ (%) @ GCM	38.0	32.4
Vehicle electronically speed limited to 100km/h (ADR65/00)		

BRAKES

Type	Full air, dual circuit, “S” cam type, leading and 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 connection at end of chassis)	
Trailer brake control	Hand control on dash (plumbing to end of chassis)	
Park brake	Spring brake acting on 2nd and 3rd axles	
Engine brake	Engine compression brake equipped	

AXLE, SUSPENSION & LOAD LIMITS

FRONT	Front Axle Model	2 x MF781 series	
	Type	Reverse Elliot I-Beam	
	Suspension	Non load share semi-elliptic taper leaf springs with shock absorbers & stabiliser	
	Spring Dimensions	1,700 x 90mm	
	Number of Leafs	2	
	Spring Rate	334 N/mm	
REAR	Axle Limit (including suspension)	15,000 kg	
	Tyre Limit	13,800 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	
	Models	FY 3248 Leaf Rear	FY 3248 Air Rear
	Suspension	Semi-elliptic multi leaf with V Rod stabiliser & shock absorbers	Hendrickson HAS 460 airbag with double acting shock absorbers
	Spring Dimensions	1,350 x 80mm	Road Friendly Suspension Rating N/o RF2005
	Number of Leafs	11	
	Spring Rates	2,460 N/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	13 (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
Ad Blue tank capacity	28L

CAB DETAILS

Type	Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism
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 seat	Equipped
Seat belts	3-point type on driver's & side passenger seats
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 and 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 4 speed 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 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
Reverse camera	Equipped

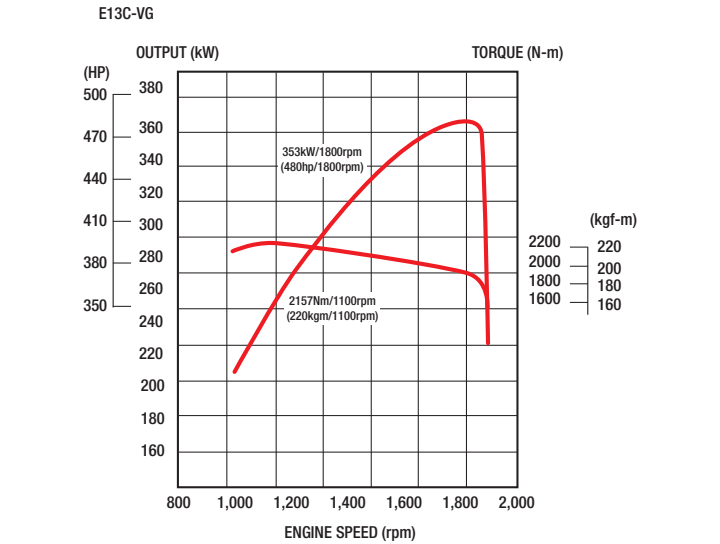
ELECTRICAL

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 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 angles		Inside	Outside
	First axle	39°	30°
	Second axle	31°	25.5°

POWER & TORQUE CHART (ISO NET) E13C VG



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
Switches	Differential lock indicator lamp
Lights	Engine over-run warning buzzer
Indicators & 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	Others
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	
Engine brake	
Cruise Control	
Low speed (Slow) (AMT only)	

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 ² (63 kgf/mm ²)	
Inner section in mm (depth x flange x thickness)	275 x 80 x 7.0mm	N/A
Tow hook (front)	5,000 kg allowable load	
Front underrun protection	Equipped	

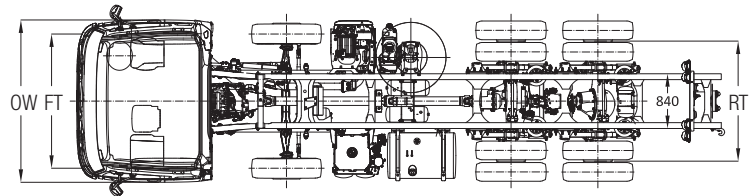
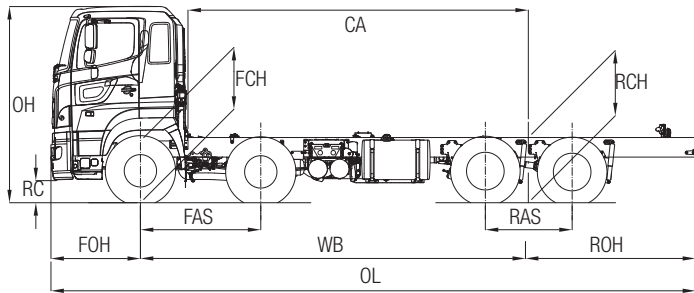
GENUINE ACCESSORY OPTIONS

Bull bar	Step cover kit
Chrome wheel covers	Stoneguard
Sat Nav	Transmission PTO (AMT only)
Extra vision cameras (up to 3)	DVR

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

DIMENSIONS – MM / CAPACITIES

Model 700 Series	FY 3248		
Variant	MT LEAF 5955	AMT LEAF 5955	AMT AIR 5967
Model code	FY1EULA-WAZ	FY1EULA-VRA	FY1EULG-VRA
Wheelbase (WB)	5,955		5,967
Nominal Body Length (WB x 0.6) + CA – 100	8,753		8,760
Overall length (OL)		9,895	
Overall width (OW)		2,490	
Overall height (OH)	3,035		3,045
Cab to rear axle centre (CA)		5,280	
Front overhang (FOH)		1,380	
Rear overhang (ROH)	2,560		2,547
Front chassis height (FCH)	1,030		1,040
Rear chassis height (RCH)	1,090		1,045
Road clearance (at diff. case) (RC)	245		210
Front track (FT)		2,050	
Rear track (RT)	1,820		1,840
Turning circle (kerb to kerb)		23,400	
Turning circle (wall to wall)		25,200	
Chassis mass – kg (standard tools, 10 litres of fuel, spare tyre and subject to a ±3% variance)			
Total	10,196	9,996	9,516
Front	6,368	6,120	6,291
Rear	3,828	3,875	3,225
GVM		32,000	
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 FY 3248	8 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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