

HINO

700 Series

SH 2045



* Illustration may contain item not standard to the model

ADR 80/03 Model
4 x 2 Cab Chassis

KEY FEATURES

ProShift 16 Automated Manual Transmission
Transmission Intarder & Jacob Type Engine Brake
Heated & Electrically Operated External Mirrors
Cruise Control
HID Headlamps
ISRI 6860/870 Drivers Seat with Integrated Safety Belt
Drivers SRS Airbag
ECE R29 Cab Strength Compliance
4-Wheel Disc Brakes with Electronic Brake System (EBS)
Anti-lock Brake System (ABS)
Vehicle Stability Control (VSC)

KEY SPECIFICATIONS

GVM.	16,000kg
GCM.	42,000kg
Power	331kW
Torque	2157Nm
Transmission	ZF AS TRONIC
Wheelbase	3,480mm

A Toyota Group Company

HINO
A BETTER CLASS OF TRUCK



SH 2045

Engine, Driveline & Chassis specifications

ENGINE

Model	Hino E13C VF
Max. output (ISO NET)	331kW (450 PS) at 1,800rpm
Max. output (JIS GROSS)	338kW (460 PS) at 1,800rpm
Max. torque (ISO NET)	2157Nm at 1,100rpm
Max. torque (JIS GROSS)	2197Nm 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 & 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 with SCR
Emission Control System	EGR & SCR meeting ADR 80/03 using Euro 5 STD

CLUTCH

Model	CS-430 Series
Type	Dry single plate with damper springs
Control	Automated & Auto adjusting
Facing material	Moulded
Facing diameter	430mm

TRANSMISSION

Make	ZF AS Tronic
Model	ZF 2630 T0 with intarder
Type	16 forward and 2 reverse
Control	Electronic
Final drive ratio	3.727:1

Gear No.	Ratio	Gear No.	Ratio	Gear No.	Ratio
1	14.120	7	4.565	13	1.428
2	11.677	8	3.776	14	1.181
3	9.539	9	3.093	15	1.000
4	7.899	10	2.558	16	0.827
5	6.521	11	2.089	Rev 1	13.704
6	5.393	12	1.728	Rev 2	10.812

PERFORMANCE

Engine RPM @ 100km/h	1,620
Max theoretical speed (km/h)	117
Gradeability Tan θ (%) @ GCM	50.9
Vehicle electronically speed limited to	100km/h

BRAKES

Type	Electric over full air, dual circuit, disc front & rear
Size	Front Disc 434mm
	Rear Disc 434mm
Air drier	Equipped
Electronic Brake System (EBS)	Equipped
Anti-lock Brake System (ABS)	Equipped
Vehicle Stability Control (VSC)	Equipped
Trailer brake control	Hand control on dash
Park brake	Spring brake acting on 2nd axle
Engine brake	Engine compression brake equipped
Transmission brake	ZF Intarder

AXLE, SUSPENSION & LOAD LIMITS

FRONT	Front Axle Model	MF781 series
	Type	Reverse Elliot I-Beam
	Suspension	Semi-elliptic taper leaf springs with shock absorbers & stabiliser
	Spring Dimensions	1700 x 90mm
	Number of Leafs	2
	Spring Rate	334 N/mm
	Axle Limit (including suspension)	7,500 kg
REAR	Tyre Limit	7,100 kg
	Rear Axle Model	SH19
	Type	Fully floating axles with single reduction Hypoid differential
	Rear Rear Cross Lock	Fitted
	Rear Suspension Model	Hino 4 bag air suspension
	Shock Absorbers	Fitted
	Stabiliser	Fitted
	Wabco Electric Height Control	Fitted
	Axle Limit (including suspension)	12,800 kg
	Tyre Limit	11,600 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	7 (including spare)
Tools included	Wheelbrace and jack

FUEL TANK

Type	Square aluminium
Volume	450L
Fuel pre-filter & sedimenter	Equipped
Locking fuel cap	Equipped
Ad Blue tank capacity	56L



SH 2045

Cab equipment & Instrumentation

CAB DETAILS

Type	Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism
ECER29 Cab strength.	Compliant
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
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

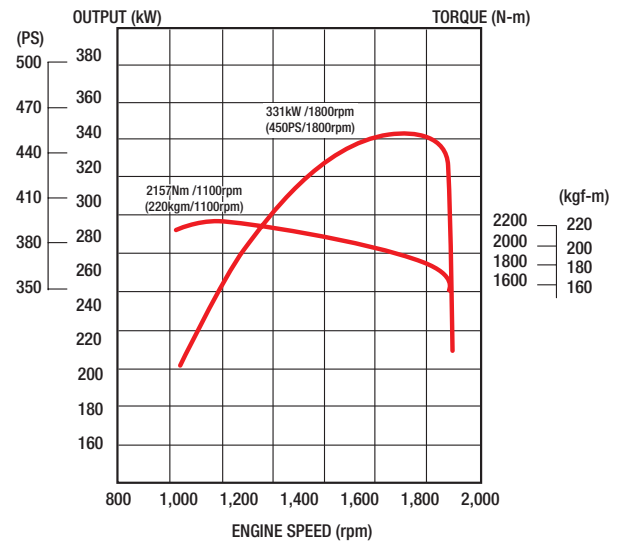
ELECTRICAL

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	24.1 - 23.8 - 1
Steering angle	Inside: 48-50° Outside: 39°

POWER & TORQUE CHART (ISO NET) E13C VF



INSTRUMENTS

1. Meters and gauges

Speedometer with trip meter
Odometer
Fuel gauge
Tachometer
Coolant temperature gauge

2. Switches

Lights
Indicators, dimmer & passing
Wiper & washer
Hazard lamp
Fog lamp
Room lamp
Warning lamp check
Map lamp
Differential lock
Rear rear differential cross lock
Mirror heating
Economy running
Cruise Control

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 gear display
ABS, EBS & VSC warning lamps
Trailer brake indicator lamp

4. Others

One key starting-stopping
Horn button
Idle up control knob

CHASSIS FRAME

Type	Ladder-shaped channel section side rails
Rear chassis width.	840mm
Size	279 x 90 x 9.0mm
Tensile strength	620N/mm ² {63kgf/mm ² }
Hook.	Equipped for front
Front Underrun Protection	Equipped

GENUINE ACCESSORY OPTIONS

Bull bar	Side skirts
Chrome wheel covers	Step cover kit
Sat Nav	Stoneguard
Rear vision camera (up to 3)	Woodgrain dash panel
Roof spoiler	

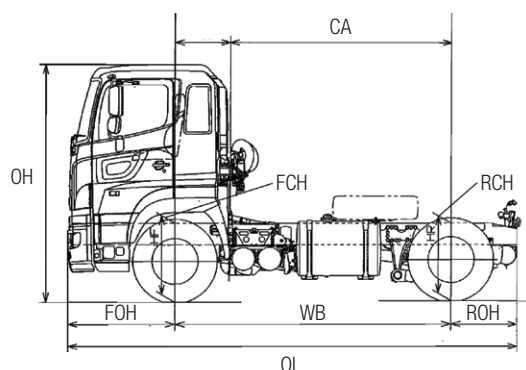
Please check with your dealer for price, availability & fitment for these options



SH 2045

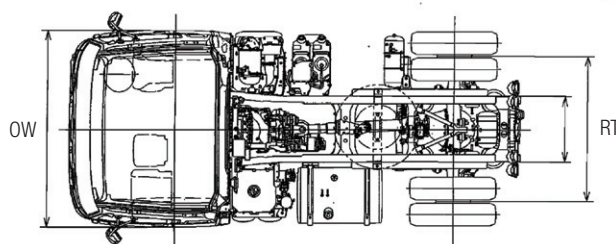
700 Series

Dimensions



DIMENSIONS – mm / Capacities

Model	Hino SH 2045 ProShift 16 Air
Model code	SH1EELG-RXZ
Wheelbase (WB)	3,480
Overall length (OL)	5,685
Overall width (OW)	2,490
Overall height (OH)	3,010
Cab to rear axle centre (CA)	2,770
Front overhang (FOH)	1,380
Rear overhang (ROH)	835
Front chassis height (FCH)	980
Rear chassis height (RCH)	995
Front track (FT)	2,055
Rear track (RT)	1,840
Road clearance (at diff. case)	195
Turning circle (kerb to kerb)	12,400
Turning circle (wall to wall)	14,080
Chassis mass – kg (standard tools, 10 litres of fuel, spare tyre and subject to a ± 3% tolerance)	
Total	6,636
Front	4,685
Rear	1,951
GVM	16,000
GCM	42,000



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 SH 2045 ProShift 16 Air	4 x 2	3 years or 500,000km	60 months or 750,000km	36 months

Battery warranty – 12 months from date of delivery. Engine component warranty covers, crankshaft, cylinder block and head castings.
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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