HINO 700 Series

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

*Illustration may contain item not standard to the model*
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
- Exhaust: Horizontal outlet with SCR
- Emission Control System: EGR & SCR meeting ADR 80/03 using Euro 5 STD

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

<table>
<thead>
<tr>
<th>Gear No.</th>
<th>Ratio</th>
<th>Gear No.</th>
<th>Ratio</th>
<th>Gear No.</th>
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<td>Rev 2</td>
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</table>

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

**PERFORMANCE**
- Engine RPM @ 100km/h: 1,620
- Max theoretical speed (km/h): 117
- Gradeability Tan (°) @ 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

**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 & sediment trap: Equipped
- Locking fuel cap: Equipped
- Ad Blue tank capacity: 56L

**AXLE, SUSPENSION & LOAD LIMITS**
- 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 Leaves: 2
- Spring Rate: 334 N/mm
- Axle Limit (including suspension): 7,500 kg
- Tyre Limit: 7,100 kg
- Rear Axle Model: SH19
- Type: Fully floating axles with single reduction Hypoid differential
- Rear Axle 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
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

**INSTRUMENTS**

1. **Meters and gauges**
   - Speedometer with trip meter
   - Odometer
   - Fuel gauge
   - Tachometer
   - Coolant temperature gauge
2. **Switches**
   - Engine over-run warning buzzer
   - Battery charging indicator lamp
   - Transmission gear display
   - Trailer brake indicator lamp
   - One key starting-stopping
   - Horn button
   - Idle up control knob
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
   - Battery charging indicator lamp
   - Fuel filter water level warning lamp
   - ABS, EBS & VSC warning lamps
4. **Others**

**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**

**CHASSIS FRAME**

- **Type** Ladder-shaped channel section side rails
- **Rear chassis width** 279 x 90 x 9.0mm
- **Size** 279 x 90 x 9.0mm
- **Tensile strength** 620N/mm² (63kgf/mm²)
- **Hook** Equipped for front

**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
**DIMENSIONS – mm / Capacities**

<table>
<thead>
<tr>
<th>Model</th>
<th>Hino SH 2045 ProShift 16 Air</th>
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</thead>
<tbody>
<tr>
<td>Model code</td>
<td>SH1EELG-RXZ</td>
</tr>
<tr>
<td>Wheelbase (WB)</td>
<td>3,480</td>
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<tr>
<td>Overall length (OL)</td>
<td>5,685</td>
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<tr>
<td>Overall width (OW)</td>
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<tr>
<td>Overall height (OH)</td>
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<td>Cab to rear axle centre (CA)</td>
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<td>Front overhang (FOH)</td>
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<td>Rear overhang (ROH)</td>
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<td>Rear track (RT)</td>
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<td>Road clearance (at diff. case)</td>
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<tr>
<td>Turning circle (kerb to kerb)</td>
<td>12,400</td>
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<tr>
<td>Turning circle (wall to wall)</td>
<td>14,080</td>
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<tr>
<td><strong>Chassis mass – kg</strong> (standard tools, 10 litres of fuel, spare tyre and subject to a ± 3% tolerance)</td>
<td>6,636</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>Front</strong></td>
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<td><strong>Rear</strong></td>
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<td><strong>GVM</strong></td>
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<td><strong>GCM</strong></td>
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**WARRANTY**

**New vehicle warranty period**

<table>
<thead>
<tr>
<th>Heavy Duty Model</th>
<th>Axle configuration</th>
<th>Standard warranty (whichever comes first)</th>
<th>Engine component warranty (whichever comes first)</th>
<th>Cab corrosion perforation</th>
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</thead>
<tbody>
<tr>
<td>700 SH 2045 ProShift 16 Air</td>
<td>4 x 2</td>
<td>3 years or 500,000km</td>
<td>60 months or 750,000km</td>
<td>36 months</td>
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</tbody>
</table>

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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