**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**

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Hino E13C VG</td>
</tr>
<tr>
<td>Max. output (ISO NET) @ 1800 RPM</td>
<td>353kW (480 HP)</td>
</tr>
<tr>
<td>Max. output (JIS GROSS) @ 1800 RPM</td>
<td>360kW (490 HP)</td>
</tr>
<tr>
<td>Max. torque (ISO NET) @ 1100 RPM</td>
<td>2157Nm (220 kgf/m)</td>
</tr>
<tr>
<td>Max. torque (JIS GROSS) @ 1100 RPM</td>
<td>2197Nm (224 kgf/m)</td>
</tr>
<tr>
<td>Max. engine speed</td>
<td>1900rpm</td>
</tr>
<tr>
<td>Engine compliance</td>
<td>ADR 80/03</td>
</tr>
<tr>
<td>Type</td>
<td>Diesel, turbo charged &amp; inter-cooled, 6 cylinder in-line, overhead camshaft</td>
</tr>
<tr>
<td>Combustion system</td>
<td>Direct injection type with Cooled-EGR</td>
</tr>
<tr>
<td>Bore &amp; stroke</td>
<td>137 x 146mm</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>17:0:1</td>
</tr>
<tr>
<td>Oil capacity</td>
<td>37.0L</td>
</tr>
<tr>
<td>Coolant capacity</td>
<td>27.4L</td>
</tr>
<tr>
<td>Fuel injection pump</td>
<td>Electronic control common rail</td>
</tr>
<tr>
<td>Governor</td>
<td>Electric</td>
</tr>
<tr>
<td>Air cleaner</td>
<td>Dual paper elements</td>
</tr>
<tr>
<td>Air compressor</td>
<td>Single cylinder, water cooled</td>
</tr>
<tr>
<td>Bore &amp; stroke</td>
<td>95 x 70mm</td>
</tr>
<tr>
<td>Exhaust</td>
<td>Horizontal outlet</td>
</tr>
<tr>
<td>Emission Control System</td>
<td>EGR &amp; SCR meeting ADR 80/03 using Euro 0 STD</td>
</tr>
</tbody>
</table>

### Clutch

<table>
<thead>
<tr>
<th>Specification</th>
<th>Manual</th>
<th>ProShift 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Hino CR-380</td>
<td>CS-430 Series</td>
</tr>
<tr>
<td>Type</td>
<td>Dry twin plate with damper springs</td>
<td>Single plate with damper springs</td>
</tr>
<tr>
<td>Control</td>
<td>Hydraulic with air booster</td>
<td>Automated &amp; Auto adjusting</td>
</tr>
<tr>
<td>Facing material</td>
<td>Ceramic</td>
<td>Organic</td>
</tr>
<tr>
<td>Facing diameter</td>
<td>387mm</td>
<td>430mm</td>
</tr>
</tbody>
</table>

### Transmission

<table>
<thead>
<tr>
<th>Specification</th>
<th>SS 2848 Manual</th>
<th>SS 2848 AMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make &amp; Model</td>
<td>Eaton RTLO Road Ranger</td>
<td>ZF AS Tronic</td>
</tr>
<tr>
<td>Code</td>
<td>RTLO 18918B</td>
<td>ZF 2631 TO</td>
</tr>
<tr>
<td>Type</td>
<td>18 forward &amp; 4 reverse</td>
<td>16 forward &amp; 2 reverse</td>
</tr>
<tr>
<td>Control</td>
<td>Mechanical</td>
<td>Electronic</td>
</tr>
<tr>
<td>Gear Ratios</td>
<td>Manual</td>
<td>AMT</td>
</tr>
<tr>
<td>Gear Position</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>14.402</td>
<td>12th</td>
</tr>
<tr>
<td>2nd</td>
<td>12.287</td>
<td>12th</td>
</tr>
<tr>
<td>3rd</td>
<td>8.561</td>
<td>13th</td>
</tr>
<tr>
<td>4th</td>
<td>7.303</td>
<td>14th</td>
</tr>
<tr>
<td>5th</td>
<td>6.048</td>
<td>15th</td>
</tr>
<tr>
<td>6th</td>
<td>5.160</td>
<td>16th</td>
</tr>
<tr>
<td>7th</td>
<td>4.384</td>
<td>17th</td>
</tr>
<tr>
<td>8th</td>
<td>3.740</td>
<td>18th</td>
</tr>
<tr>
<td>9th</td>
<td>3.201</td>
<td>19th</td>
</tr>
<tr>
<td>10th</td>
<td>2.731</td>
<td>20th</td>
</tr>
<tr>
<td>11th</td>
<td>2.388</td>
<td>21st</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification</th>
<th>SS 2848 Manual</th>
<th>SS 2848 AMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make &amp; Model</td>
<td>Eaton RTLO Road Ranger</td>
<td>ZF AS Tronic</td>
</tr>
<tr>
<td>Code</td>
<td>RTLO 18918B</td>
<td>ZF 2631 TO</td>
</tr>
<tr>
<td>Type</td>
<td>18 forward &amp; 4 reverse</td>
<td>16 forward &amp; 2 reverse</td>
</tr>
<tr>
<td>Control</td>
<td>Mechanical</td>
<td>Electronic</td>
</tr>
<tr>
<td>Gear Ratios</td>
<td>Manual</td>
<td>AMT</td>
</tr>
<tr>
<td>Gear Position</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>14.402</td>
<td>12th</td>
</tr>
<tr>
<td>2nd</td>
<td>12.287</td>
<td>12th</td>
</tr>
<tr>
<td>3rd</td>
<td>8.561</td>
<td>13th</td>
</tr>
<tr>
<td>4th</td>
<td>7.303</td>
<td>14th</td>
</tr>
<tr>
<td>5th</td>
<td>6.048</td>
<td>15th</td>
</tr>
<tr>
<td>6th</td>
<td>5.160</td>
<td>16th</td>
</tr>
<tr>
<td>7th</td>
<td>4.384</td>
<td>17th</td>
</tr>
<tr>
<td>8th</td>
<td>3.740</td>
<td>18th</td>
</tr>
<tr>
<td>9th</td>
<td>3.201</td>
<td>19th</td>
</tr>
<tr>
<td>10th</td>
<td>2.731</td>
<td>20th</td>
</tr>
<tr>
<td>11th</td>
<td>2.388</td>
<td>21st</td>
</tr>
</tbody>
</table>

### Brakes

<table>
<thead>
<tr>
<th>Specification</th>
<th>SS 2848 Manual</th>
<th>SS 2848 AMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Full air, dual circuit, “S” cam type, leading &amp; trailing shoes for front &amp; rear with auto slack adjuster</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>Front: 406.4 x 152mm</td>
<td>Rear: 406.4 x 216mm</td>
</tr>
<tr>
<td>Air drier</td>
<td>Equipped</td>
<td></td>
</tr>
<tr>
<td>Anti-lock Brake System (ABS)</td>
<td>Equipped</td>
<td></td>
</tr>
<tr>
<td>Trailer brake control</td>
<td>Hand control on dash</td>
<td></td>
</tr>
<tr>
<td>Park brake</td>
<td>Spring brake acting on 1st and 2nd axles</td>
<td></td>
</tr>
<tr>
<td>Engine brake</td>
<td>Engine compression brake equipped</td>
<td></td>
</tr>
<tr>
<td>Transmission brake</td>
<td>ZF Intarder (AMT models only)</td>
<td></td>
</tr>
</tbody>
</table>

### Performance

<table>
<thead>
<tr>
<th>Specification</th>
<th>SS 2848 Manual</th>
<th>SS 2848 AMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculation based on GCM with 11R22.5 drive tyres</td>
<td>72,000</td>
<td>72,000</td>
</tr>
<tr>
<td>Final drive ratio</td>
<td>4.555 to 1</td>
<td>3.9 to 1</td>
</tr>
<tr>
<td>Engine RPM @ 100km/h</td>
<td>1750</td>
<td>1693</td>
</tr>
<tr>
<td>Max. theoretical speed (km/h)</td>
<td>108</td>
<td>112</td>
</tr>
<tr>
<td>Gradeability Tan (%) @ GCM</td>
<td>38.0</td>
<td>31.0</td>
</tr>
</tbody>
</table>

### Fuel tank

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

### Wheels & Tyres

- Wheel type: 10 stud disc wheels (ISO 335 PCD)
- Rim size: 22.5 x 8.25- offset 165mm
- Number of tyres: 11 (including spare)
- Tools included: Wheelbrace and jack

### Axle, Suspension & Load Limits

- Front Axle Model: MF 781 series
  - Suspension: Semi-elliptic taper leaf springs with shock absorbers & stabiliser
  - Spring Dimensions: 1700 x 90mm
  - Number of Leaves: 3
  - Spring Rate: 34.1 kgf/mm
  - Axle Limit (including suspension): 7500 kg
  - Tyre Limit: 7100 kg
- Rear Axle Model: THD 18 Tandem Axle
  - Suspension: Hendrickson H45 460 airbag with double acting shock absorbers and dump valve
  - Road Friendly Suspension Rating: N/R RF2005
  - Axle Limit (including suspension): 21,000 kg
  - Tyre Limit: 23,200 kg
**Cab equipment & Instrumentation**

**CAB DETAILS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism</td>
</tr>
<tr>
<td>Hi Roof Cab</td>
<td>Optional</td>
</tr>
<tr>
<td>Grill colour</td>
<td>Chrome</td>
</tr>
<tr>
<td>Driver SRS Airbag</td>
<td>Equipped</td>
</tr>
<tr>
<td>Front Underrun Protection</td>
<td>Equipped</td>
</tr>
<tr>
<td>Seating capacity</td>
<td>2, optional 3</td>
</tr>
<tr>
<td>Driver’s seat</td>
<td>ISRI X90/870 Urethane foam pads, high-back, lumbar support, Multi adjustable, air suspended, with integrated Safety Belt</td>
</tr>
<tr>
<td>Passenger seat</td>
<td>Urethane foam pads, high back &amp; reclining seat with fabric cover</td>
</tr>
<tr>
<td>Centre console</td>
<td>Equipped</td>
</tr>
<tr>
<td>Seat belts</td>
<td>3-point type on driver’s &amp; side passenger seats</td>
</tr>
<tr>
<td>Rear view mirrors</td>
<td>2 external electrically controlled, flat type mirrors with heaters and spotter and kerb view</td>
</tr>
<tr>
<td>Windshield wipers</td>
<td>Electric, triple-arm, with intermittent &amp; 2 speed control</td>
</tr>
<tr>
<td>Sun visor &amp; overhead console</td>
<td>Equipped</td>
</tr>
<tr>
<td>Centre overhead console</td>
<td>Equipped</td>
</tr>
<tr>
<td>Cigarette lighter (24 volt)</td>
<td>Equipped</td>
</tr>
<tr>
<td>Electrical converter</td>
<td>12V (harness type)</td>
</tr>
<tr>
<td>Ventilator</td>
<td>Forced type with electric blower</td>
</tr>
<tr>
<td>Heater &amp; defroster</td>
<td>Equipped</td>
</tr>
<tr>
<td>Air conditioner</td>
<td>Equipped</td>
</tr>
<tr>
<td>Sleeper berth</td>
<td>Single, with blackout curtains (ADR Compliant)</td>
</tr>
<tr>
<td>Speakers</td>
<td>Driver, passenger &amp; centre</td>
</tr>
<tr>
<td>Floor mat</td>
<td>Vinyl mat</td>
</tr>
<tr>
<td>Front air spoiler</td>
<td>Equipped</td>
</tr>
<tr>
<td>Cap step</td>
<td>Equipped</td>
</tr>
<tr>
<td>Trim</td>
<td>Full trim type / side roof back</td>
</tr>
<tr>
<td>Electric power windows</td>
<td>Both sides</td>
</tr>
<tr>
<td>Electric door lock</td>
<td>Remote control keyless entry</td>
</tr>
<tr>
<td>Cab pockets</td>
<td>Both door sides &amp; passenger seat</td>
</tr>
<tr>
<td>Cruise Control</td>
<td>Equipped</td>
</tr>
</tbody>
</table>

**ELECTRICAL**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>24 volts, negative earth</td>
</tr>
<tr>
<td>Batteries</td>
<td>12V x 2 series connection</td>
</tr>
<tr>
<td>Capacity</td>
<td>150Ah at 20 hour rate</td>
</tr>
<tr>
<td>Alternator</td>
<td>Brushless type 24V, 90A with built-in rectifier &amp; voltage regulator</td>
</tr>
<tr>
<td>Starter</td>
<td>24V, 6.0kW</td>
</tr>
<tr>
<td>Lamps</td>
<td>Gas discharge (HD) headlamps, fog lamps, cornering lamps, room lamp (fluorescent lamp), map lamp</td>
</tr>
</tbody>
</table>

**STEERING**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steering column</td>
<td>Telescopic &amp; tilt with locking device</td>
</tr>
<tr>
<td>Steering box</td>
<td>Recirculating ball with Integral Power Steering</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>25.2:1</td>
</tr>
<tr>
<td>Steering angle</td>
<td>Inside 49° Outside 35°</td>
</tr>
</tbody>
</table>

**CHASSIS FRAME**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Ladder-shaped channel section side rails</td>
</tr>
<tr>
<td>Chassis width</td>
<td>840mm</td>
</tr>
<tr>
<td>Main section</td>
<td>298 x 90 x 7.0mm</td>
</tr>
<tr>
<td>Main section tensile strength</td>
<td>620 N/mm² (63 kgf/mm²)</td>
</tr>
<tr>
<td>Tow hook (front)</td>
<td>Supplied</td>
</tr>
<tr>
<td>Front underrun protection</td>
<td>Equipped</td>
</tr>
</tbody>
</table>

**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
   - Switches
   - Map lamp
   - Inter axle lock
   - Rear differential cross lock
   - Mirror heating
   - Economics 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
   - Others
     - One key starting-stopping
     - Horn button
     - Idle up control knob
     - Gear display (ProShift 16 only)

**GENUINE ACCESSORY OPTIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bull bar</td>
<td>Stoneguard</td>
</tr>
<tr>
<td>Chrome wheel covers</td>
<td>Woodgrain dash panel</td>
</tr>
<tr>
<td>Sat Nav</td>
<td>Transmission PTO (ProShift 16 only)</td>
</tr>
<tr>
<td>Rear vision camera (up to 3 )</td>
<td>Please check with your dealer for price, availability &amp; fitment for these options</td>
</tr>
</tbody>
</table>
### Dimensions – mm / Capacities

<table>
<thead>
<tr>
<th>Model 700 Series</th>
<th>SS 2848 Air</th>
<th>SS 2848 ProShift 16 Air</th>
<th>SS 2848 ProShift 16 Hi Roof Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model code</td>
<td>SS1EKLG-WAZ</td>
<td>SS1EKLG-VXZ</td>
<td>SS1EKLG-VYZ</td>
</tr>
<tr>
<td>Nominal Body Length (WB x 0.6) + CA – 100</td>
<td>5,590</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheelbase (WB)</td>
<td>4,005</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall length (OL)</td>
<td>6,895</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall width (OW)</td>
<td>2,490</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall height (OH)</td>
<td>3,295</td>
<td>2,995</td>
<td>3,480</td>
</tr>
<tr>
<td>Cab to rear axle centre (CA)</td>
<td>3,295</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front overhang (FOH)</td>
<td>1,380</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear overhang (ROH)</td>
<td>1,510</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front chassis height (FCH)</td>
<td>990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear chassis height (RCH)</td>
<td>1,040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Road clearance (at diff. case) (RC)</td>
<td>210</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front track (FT)</td>
<td>2,050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear track (RT)</td>
<td>1,840</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turning circle (kerb to kerb)</td>
<td>15,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turning circle (wall to wall)</td>
<td>16,640</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chassis mass – kg** *(standard tools, 10 litres of fuel, spare tyre & subject to a ±3% variance)*

<table>
<thead>
<tr>
<th>Total</th>
<th>8,310</th>
<th>8,185</th>
<th>8,225</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>4,835</td>
<td>4,720</td>
<td>4,765</td>
</tr>
<tr>
<td>Rear</td>
<td>3,475</td>
<td>3,465</td>
<td>3,460</td>
</tr>
<tr>
<td>GVM</td>
<td>28,300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GCM</td>
<td>72,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Warranty

**New vehicle warranty period**

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

### Disclaimer

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HS700SS2848-06/16