KEY FEATURES

- Twin Steer
- ProShift 16 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 AS TRONIC
  - Eaton RTLO 18918B
- **Wheelbase (front axle to centre of rear axle set)**: 5,955mm
- **Nominal Body Length**: 8,700mm
## ENGINE

**Model** .... Hino E13C V5

**Max. output (ISO NET)** .... 353kW (480 HP) at 1,800rpm

**Max. output (JIS GROSS)** .... 360kW (490 HP) at 1,800rpm

**Max. torque (ISO NET)** .... 2,157Nm at 1,100rpm

**Max. torque (JIS GROSS)** .... 2,197Nm 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

**Compression ratio** .... 17.0:1

**Governor** .... Electric

**Fuel injection pump** .... Electronic control common rail

**Engine coolant capacity** .... 27.4L

**Engine oil capacity** .... 37.0L

**Max. engine speed** .... 1,900rpm

**Max. torque (JIS GROSS)** .... 2,197Nm at 1,100rpm

**Max. output (ISO NET)** .... 353kW (480 HP) at 1,800rpm

## CLUTCH

**Model** .... CR-380

**Type** .... Dry twin plate with damper springs

**Control** .... Hydraulic with air booster

**Facing material** .... Ceramic

**Facing diameter** .... 367mm

## TRANSMISSION

**Make** .... Eaton

**Model** .... RTLO 18918B

**Type** .... 18 forward & 4 reverse speeds, double overdrive

**Control** .... Mechanical

**Gear Ratios**

<table>
<thead>
<tr>
<th></th>
<th>Manual</th>
<th>ProShift 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>14.402</td>
<td>14.120</td>
</tr>
<tr>
<td>2nd</td>
<td>12.287</td>
<td>11.677</td>
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<tr>
<td>3rd</td>
<td>8.561</td>
<td>9.539</td>
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<tr>
<td>4th</td>
<td>7.303</td>
<td>7.889</td>
</tr>
<tr>
<td>5th</td>
<td>6.048</td>
<td>6.521</td>
</tr>
<tr>
<td>6th</td>
<td>5.160</td>
<td>5.393</td>
</tr>
<tr>
<td>7th</td>
<td>4.384</td>
<td>4.565</td>
</tr>
<tr>
<td>8th</td>
<td>3.740</td>
<td>3.776</td>
</tr>
<tr>
<td>9th</td>
<td>3.201</td>
<td>3.093</td>
</tr>
<tr>
<td>10th</td>
<td>2.731</td>
<td>2.558</td>
</tr>
<tr>
<td>11th</td>
<td>2.288</td>
<td>2.089</td>
</tr>
<tr>
<td>12th</td>
<td>1.952</td>
<td>1.728</td>
</tr>
<tr>
<td>13th</td>
<td>1.617</td>
<td>1.428</td>
</tr>
<tr>
<td>14th</td>
<td>1.379</td>
<td>1.181</td>
</tr>
<tr>
<td>15th</td>
<td>1.172</td>
<td>1.000</td>
</tr>
<tr>
<td>16th</td>
<td>1.000</td>
<td>0.827</td>
</tr>
<tr>
<td>17th</td>
<td>0.855</td>
<td></td>
</tr>
<tr>
<td>18th</td>
<td>0.730</td>
<td></td>
</tr>
<tr>
<td>Rev. 15.057</td>
<td>13.704</td>
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</tr>
<tr>
<td>Rev. 12.845</td>
<td>10.812</td>
<td></td>
</tr>
<tr>
<td>Rev. 4.025</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rev. 3.434</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## BRAKES

**Type** .... Full air, dual circuit, “S” cam type, leading & 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)

**Engine brake** .... Engine compression brake equipped

## FUEL TANK

**Type** .... Square aluminium

**Volume** .... 390L

**Fuel pre-filter & sediment** .... Equipped

**Locking fuel cap** .... Equipped

**Ad Blue tank capacity** .... 28L

## PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>Manual</th>
<th>ProShift 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final drive ratio</td>
<td>4.555:1</td>
<td>3.900:1</td>
</tr>
<tr>
<td>Engine RPM @ 100km/h</td>
<td>1,750</td>
<td>1,693</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>

Vehicle electronically speed limited to 100km/h (ADR65/00)
FY 3248

Cab equipment & Instrumentation

**CAB DETAILS**

- **Type**: Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism
- **Driver SRS Airbag**: Equipped
- **Front Underrun Protection**: 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
- **Rear view mirrors**: 2 external electrically controlled, flat type mirrors with heaters, also spotters and kerb view mirrors with fabric cover
- **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)
- **Engine brake**: EconoMatic type
- **Engine over-run warning buzzer**: Equipped
- **Tracker system**: Equipped
- **Rear vision camera**: Up to 3

**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**: 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**:  | First axle | Second axle |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside</td>
<td>39°</td>
<td>31°</td>
</tr>
<tr>
<td>Outside</td>
<td>30°</td>
<td>25.5°</td>
</tr>
</tbody>
</table>

**INSTRUMENTS**

1. **Meters and gauges**
   - Speedometer with trip meter
   - Odometer
   - Fuel gauge
   - Tachometer
   - Coolant temperature gauge
   - Air pressure gauge x 2

2. **Switches**
   - Coolant level warning lamp & buzzer
   - Battery charging indicator lamp
   - Fuel filter water level warning lamp
   - Transmission range (Eaton only)
   - ABS warning lamp
   - Trailer brake indicator lamp
   - One key starting-stopping
   - Horn button

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
   - Differential lock indicator lamp
   - Parking lamp
   - Warning lamp check
   - Map lamp
   - Mirror heating
   - Economy running
   - Engine brake
   - Cruise Control

**CHASSIS FRAME**

- **Leaf rear suspension**
- **Air rear suspension**

**POWER & TORQUE CHART (ISO NET) E13C VG**

**GENUINE ACCESSORY OPTIONS**

- **Bull bar**
- **Step cover kit**
- **Chrome wheel covers**
- **Stoneguard**
- **Sat Nav**
- **Transmission PTO (ProShift 16 only)**
- **Rear vision camera (up to 3 )**

Please check with your dealer for price, availability & fitment for these options
DIMENSIONS – mm / Capacities

<table>
<thead>
<tr>
<th>Model FY 3248</th>
<th>Manual</th>
<th>ProShift 16</th>
<th>ProShift 16 Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model code</td>
<td>FY1EULA-WAZ</td>
<td>FY1EULA-VXA</td>
<td>FY1EULG-VXA</td>
</tr>
<tr>
<td>Nominal Body Length</td>
<td>(WB x 0.6) + CA – 100</td>
<td>8,700</td>
<td></td>
</tr>
<tr>
<td>Wheelbase (WB)</td>
<td>5,955</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front axle spread (FAS)</td>
<td>1,850</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear axle spread (RAS)</td>
<td>1,350</td>
<td>1,330</td>
<td></td>
</tr>
<tr>
<td>Overall length (OL)</td>
<td>9,895</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall width (OW)</td>
<td>3,045</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall height (OH)</td>
<td>3,045</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cab to rear axle centre (CA)</td>
<td>5,245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front overhang (FOH)</td>
<td>1,380</td>
<td>1,370</td>
<td></td>
</tr>
<tr>
<td>Rear overhang (ROH)</td>
<td>2,560</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front chassis height (FCH)</td>
<td>1,035</td>
<td>1,040</td>
<td></td>
</tr>
<tr>
<td>Rear chassis height (RCH)</td>
<td>1,090</td>
<td>1,045</td>
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</tr>
<tr>
<td>Road clearance (at diff. case) (RC)</td>
<td>215</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>1,820</td>
<td>1,840</td>
<td></td>
</tr>
<tr>
<td>Turning circle (kerb to kerb)</td>
<td>23,400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turning circle (wall to wall)</td>
<td>25,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chassis mass – kg (standard tools, 10 litres of fuel, spare tyre &amp; subject to a ±3% variance)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>10,050</td>
<td>9,920</td>
<td>9,275</td>
</tr>
<tr>
<td>Front</td>
<td>6,345</td>
<td>6,225</td>
<td>6,135</td>
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<tr>
<td>Rear</td>
<td>3,705</td>
<td>3,695</td>
<td>3,140</td>
</tr>
<tr>
<td>GVM</td>
<td>32,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GCM</td>
<td>72,000</td>
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</tbody>
</table>

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>
</tr>
</thead>
<tbody>
<tr>
<td>FY 3248 700</td>
<td>8 x 4</td>
<td>3 years or 500,000km</td>
<td>60 months or 750,000km</td>
<td>36 months</td>
</tr>
</tbody>
</table>

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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