



\* Illustration may contain item not standard to the model

## KEY FEATURES

- Automated Manual Transmission
- Transmission Intarder & Jacob Type Engine Brake
- ECE R29 Cab Strength Compliance
- Integrated FUP
- Heated & Electrically Operated External Mirrors
- Cruise Control
- ISRI 6860 Drivers Seat with Integrated Safety Belt

## ADR 80/03 Model 6 x 4 Truck Chassis

## KEY SPECIFICATIONS

<b>GVM</b> . . . . .	28,300kg
<b>GCM</b> . . . . .	72,000kg
<b>Power</b> . . . . .	353kW @ 1800 RPM
<b>Torque</b> . . . . .	2157Nm @ 1100 RPM
<b>Transmission</b> . . . . .	ZF AS TRONIC
<b>Wheelbase</b> . . . . .	4005mm (AMT Short Air) 4305mm (AMT Air)





# FS 2848 Pro-Shift 16 Air Engine, Driveline & Chassis specifications

## ENGINE

Model . . . . .	Hino E13C VG
Max. output (ISO NET) . . . . .	353kW (480PS) at 1800rpm
Max. output (JIS GROSS) . . . . .	360kW (490PS) at 1800rpm
Max. torque (ISO NET) . . . . .	2157Nm at 1100rpm
Max. torque (JIS GROSS) . . . . .	2197Nm at 1100rpm
Max. engine speed . . . . .	1900rpm
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

Model . . . . .	ZF AS TRONIC
Type . . . . .	ZF AMT 16 Forward, 2 Reverse
Code . . . . .	16 AS 2631 TO with Intarder
Control . . . . .	Electronic
Final drive ratio . . . . .	3.9:1
PTO . . . . .	optional

	Low	High
1st	14.120	11.677
2nd	9.539	7.889
3rd	6.521	5.393
4th	4.565	3.776
5th	3.093	2.558
6th	2.089	1.728
7th	1.428	1.181
8th	1.000	0.827
Rev.	13.704	10.812

## PERFORMANCE

Engine RPM @ 100km/h . . . . .	1693
Max theoretical speed (km/h) . . . . .	112
Vehicle electronically speed limited to 100km/h	
Gradeability Tan $\theta$ (%) @ GCM . . . . .	31

## BRAKES

Type . . . . .	Full air, dual circuit, "S" cam type, leading & trailing shoes for front & rear with auto slack adjuster
Size	Front Drum . . . . . 406.4 x 152mm Rear Drum . . . . . 410.4 x 216mm
Air drier . . . . .	Equipped
ABS . . . . .	Equipped
Trailer brake control . . . . .	Hand control on dash
Park brake . . . . .	Spring brake acting on 1st & 2nd axle
Engine brake . . . . .	Engine compression brake equipped
Transmission brake . . . . .	ZF Intarder

## AXLE LOAD & TYPE

Axle load limit . . . . .	Front axle . . . . . 7500kg Rear axle . . . . . 21,800kg
Front axle type . . . . .	MF781 series, Reversed Elliot, section I-Beam
Rear axle type . . . . .	THD18 tandem axle, dual drive with inter-axle differential lock, full-floating single reduction, single-speed by hypoid
Rear rear axle . . . . .	Cross lock fitted

## SUSPENSION

Front suspension Type . . . . .	Semi-elliptic tapered leaf springs with shock absorbers & stabiliser
Size . . . . .	1700 x 90mm
Rear suspension Type . . . . .	Hendrickson HAS airbag suspension with double acting shock absorbers
Capacity . . . . .	21,000kg

## 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 . . . . .	11 (including spare)
Tools included . . . . .	Wheelbrace and jack

## FUEL TANK

Type . . . . .	Square aluminium
Volume . . . . .	400L
Fuel pre-filter & sedimenter . . . . .	Equipped
Locking fuel cap . . . . .	Equipped
Ad Blue tank capacity . . . . .	28L



# FS 2848 Pro-Shift 16 Air

## Cab equipment & Instrumentation

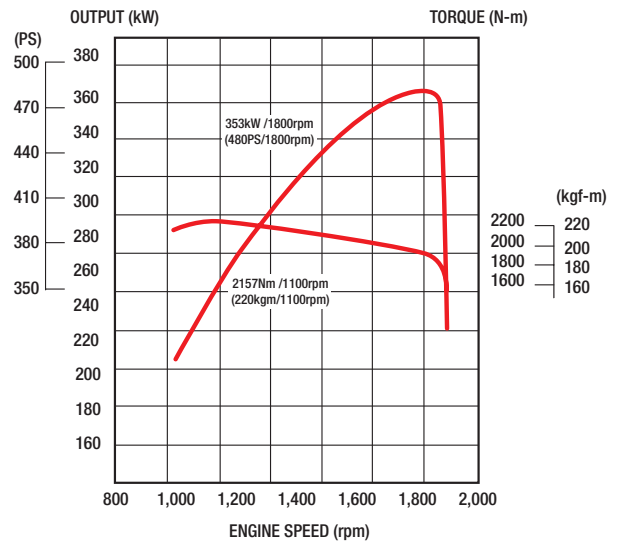
### CAB DETAILS

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 . . . . .	3
Driver's seat . . . . .	ISRI 6860 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
Windshield wipers . . . . .	Electric, triple-arm, with intermittent & 2 speed control
Sun visor & overhead console . . . . .	Equipped
Centre overhead console . . . . .	Equipped
Cigarette lighter (24 volt) . . . . .	Equipped
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 Blue Tooth
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
Electrical converter . . . . .	12V (harness type)
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

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



### 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
- Fuel level warning lamp
- Battery charging indicator lamp
- Fuel filter water level warning lamp
- Transmission splitter range
- ABS warning lamp
- Trailer brake indicator lamp

#### 4. Others

- One key starting-stopping
- Horn button
- Idle up control knob

### 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 . . . . .	<b>Inside:</b> 48-50° <b>Outside:</b> 39°

### CHASSIS FRAME

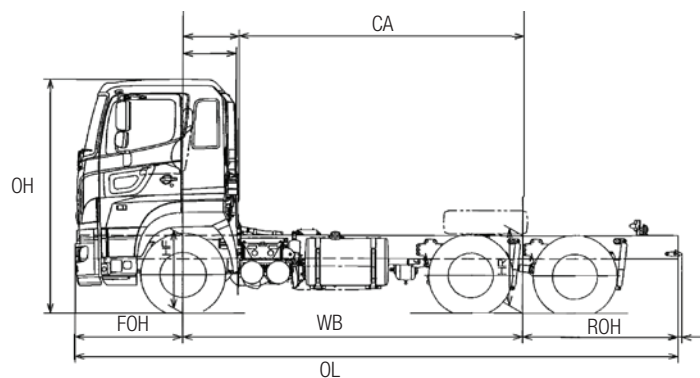
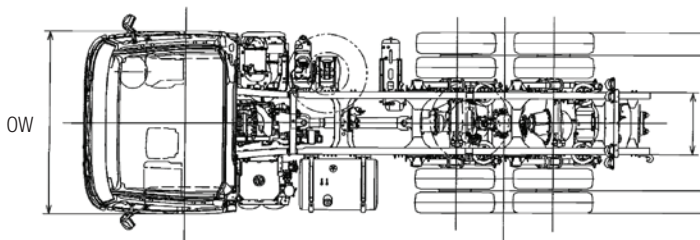
Type . . . . .	Ladder-shaped channel section side rails
Rear chassis width . . . . .	840mm
Size . . . . .	279 x 90 x 7.0mm
Tensile strength . . . . .	620N/mm <sup>2</sup> {63kgf/mm <sup>2</sup> }
Hook . . . . .	Equipped for front
Front Underrun Protection . . . . .	Equipped



# FS 2848 Pro-Shift 16 Air

**700**  
S E R I E S

## Dimensions



### DIMENSIONS – mm / Capacities

Model	Hino FS 2848 Pro-Shift 16 Short Air	Hino FS 2848 Pro-Shift 16 Air
Product code	FS1EKLGVXZ	FS1ELLG-VXA
Wheelbase (WB)	4005	4305
Overall length (OL)	7345	7645
Overall width (OW)	2490	2490
Overall height (OH)	3005	3005
Cab to rear axle centre (CA)	3295	3595
Front overhang (FOH)	1380	1380
Rear overhang (ROH)	1960	1960
Front chassis height	1000	1000
Rear chassis height	1040	1040
Front track	2050	2050
Rear track	1840	1840
Road clearance (at diff. case)	210	210
Turning circle (kerb to kerb)	15,000	16,000
Turning circle (wall to wall)	16,640	17,560
<b>Chassis mass – kg (standard tools, 10 litres of fuel, without spare tyre)</b>		
Total	8105	8135
Front	4710	4655
Rear	3395	3480
GVM	28,300	28,300
GCM	72,000	72,000

### 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**

### WARRANTIES

New vehicle warranty period

Heavy Duty Model	Axle configuration	Standard warranty (whichever comes first)	Engine component warranty (whichever comes first)	Cab corrosion perforation
<b>700 FS 2848 Pro-Shift 16 Air</b>	6 x 4	<b>3 years or 500,000km</b>	<b>60 months or 750,000km</b>	<b>36 months</b>

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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