



**ADR 80/03 Model**  
**4 x 2 Tipper**

\* Illustration may contain item not standard to the model

## KEY FEATURES

- Factory 3.6m & 4.0m Length Tipper Body
- Cruise Control
- ABS Brakes
- Easy Start – Take-off Assist
- Brake Lock System
- Drivers SRS Airbag
- Heated & Electrically Operated External Mirrors
- FUP (ADR 84/00 Complied)
- ISRI 6800 Driver seat with integrated Safety Belt

## KEY SPECIFICATIONS

<b>GVM.</b>	10,400kg
	Optional derate to 8,000kg
<b>GCM.</b>	16,000kg
<b>Power</b>	162kW @ 2400 RPM
<b>Torque.</b>	647Nm @ 1500 RPM
<b>Transmission</b>	Six-speed synchromesh
<b>Wheelbase</b>	3420mm (Compact – 3.6)
	3850mm (Short – 3.6 & 4.0)





# FC 1022 Tipper

## Engine & Driveline specifications

### ENGINE

Model	Hino J07E-TR
Max. output (ISO NET)	162kW (220 PS) at 2400 RPM
Max. output (JIS GROSS)	165kW (225 PS) at 2400 RPM
Max. torque (ISO NET)	647Nm (51kgf/m) at 1500 RPM
Max. torque (JIS GROSS)	667Nm (52kgf/m) at 1500 RPM
Max. engine speed	2400 RPM
Engine compliance	ADR 80/03
Type	Diesel, turbocharged & intercooled, five-cylinder in-line, overhead camshaft & water-cooled
Combustion system	Direct injection with EGR
Bore & stroke	112 x 130mm
Piston displacement	6.403L
Compression ratio	17.1:1
Engine oil capacity	11.7L
Coolant capacity	25L
Fuel injection pump	Electronic control common-rail type
Intake system	Stake-type air intake
Air cleaner	Dual paper elements
Air compressor type	Single cylinder, water-cooled
Bore & stroke	70 x 40mm
Fan clutch	Equipped
Exhaust	Horizontal outlet with DPR
Emission Control System	EGR & DPR meeting ADR 80/03 using EURO 5 Std

### CLUTCH

Model	CS-350 series
Type	Dry single plate with damper springs
Facing material	Moulded (non-asbestos)
Facing outside diameter	350mm
Control	Hydraulic with air booster

### TRANSMISSION & GEAR RATIOS

Model	LX06S Overdrive
Type	Six forward and one reverse speeds, synchromesh on 2nd to 6th
Control	Cable with power shift
Rear axle gear ratio	4.33:1

1st	.6.098	5th	.1.000
2nd	.3.858	6th	.0.761
3rd	.2.340	Rev.	.5.672
4th	.1.422		

### PERFORMANCE

Calculations based on 10.4 ton GVM, 9.5R17.5 tyre	
Engine RPM @ 100km/h	2125
Max theoretical speed (km/h)	112
Gradeability tan $\theta$ (%) @ GVM	39.9
Rear axle ratio	4.33:1

### BRAKES

Type	Hydraulic system with two leading shoes for front and rear acting on all wheels
Control	Air over hydraulic, dual circuits
Drum diameter x lining	
Width	Front: 320 x 110mm Rear: 320 x 145mm
Air dryer	Equipped
ABS	Equipped
ASR (Anti Slip Regulator)	Equipped
Brake lock system	Equipped
Parking brake	Mechanical, internal, expanding acting on transmission output shaft
Exhaust brake	Electric-pneumatic with valve in exhaust pipe
Easy Start	Equipped

### AXLE LOAD & TYPE

Axle load limit	Front axle	3600kg
	Rear axle	7000kg
Front axle type	LF366 series, Reversed Elliot I Beam	
Rear axle type	SH13 full-floating, single reduction, single-speed hypoid	

### SUSPENSION

Front suspension Type	Semi-elliptic tapered leaf springs with shock absorbers
Size	1300 span x 70mm width
Rear suspension Type	Semi-elliptic main & auxiliary leaf springs
Main springs	1300 span x 70mm width
Auxiliary springs	900mm span x 70mm width

### WHEELS & TYRES

Wheel type	Six-stud disc wheel (JIS type) PCD 222.25
Rim size	6.75 x 17.5 – offset 135mm
Tyre size	9.5R17.5-129/127
Number of tyres	Seven (including one spare tyre)
Spare tyre carrier	Equipped

### FUEL TANK

Capacity	200L
Fuel pre-filter & sedimenter	Equipped
Fuel tank cap key	Equipped



# FC 1022 Tipper

## Cab, Instrumentation & Chassis

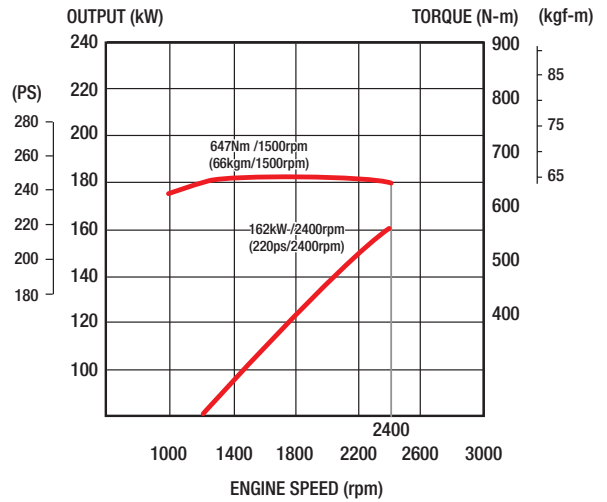
### CAB DETAILS

Type . . . . .	Forward control, all-steel construction with torsion bar tilt mechanism
Drivers SRS Airbag . . . . .	Equipped with Pretensioner Seatbelt
Seating capacity . . . . .	Three
Driver's seat . . . . .	ISRI 6800 with urethane foam pads, high-back, lumbar support, multi adjustable, air suspended, with integrated safety belt
Side passenger's seat . . . . .	Urethane foam pads, high-back and reclining seat with fabric cover and under-tray
Centre passenger's seat . . . . .	Urethane foam pads & foldaway type with seat-back tray and fabric cover
Seat belt . . . . .	Three-point type on driver's & side passenger's seat, 2-point type on centre passenger's seat
Sun visor & overhead console . . . . .	For driver & passenger sides
Windshield wipers . . . . .	Electric, dual, intermittent and 2-speed
Ventilator . . . . .	Forced type by electric blower
Rear view mirrors . . . . .	External: Electric & heated, two flat type, two convex spotters
Cigarette lighter (24V) . . . . .	Equipped
Floor mat . . . . .	Vinyl type
Front air spoiler . . . . .	Equipped
Central locking & keyless entry . . . . .	Equipped with immobiliser
Heater & defroster . . . . .	Standard
Air conditioner . . . . .	Standard
Trim . . . . .	Full trim type (side, roof and back)
Cab pockets . . . . .	Equipped on both door sides
Power windows . . . . .	Equipped
Car audio . . . . .	DAB AM/FM radio with CD & DVD player and Bluetooth
Speakers . . . . .	Driver & passenger sides
Foot rest . . . . .	Equipped
Easy Start . . . . .	Equipped
Engine control link . . . . .	Equipped
Cup holder . . . . .	Equipped
Cruise Control . . . . .	Equipped

### ELECTRICAL

Type . . . . .	24V, negative earth
Batteries . . . . .	2 x12V, series connection. Capacity 65Ah at 20-hour rate
Alternator type . . . . .	Brushless with built-in rectifier and voltage regulator. Capacity 24V, 60A
Starter type . . . . .	24V, 4.5kW
Headlamps . . . . .	Halogen type including fog lamps
High/low beam . . . . .	Equipped
Fluorescent reading lamp . . . . .	Equipped
Electric horn . . . . .	Equipped

### POWER & TORQUE CHART (ISO Net) J07E-TR



### INSTRUMENTS

- Meters & gauges**
    - Speedometer with trip meter
    - Odometer
    - Tachometer
    - Fuel gauge
    - Coolant temperature gauge
    - Air pressure gauge
  - Switches**
    - One-key starting-stopping
    - Lighting
    - Directional indicator, dimmer & passing
    - Wiper and washer
    - Hazard lamp
    - Exhaust brake
    - Map lamp
    - Fog lamp
    - Easy Start
    - DPR regeneration
    - ASR off
    - Mirror controls
  - Warning, pilot lamps & buzzers**
    - Oil pressure warning lamp & buzzer
- Air pressure warning lamp & buzzer  
 Engine over-run warning buzzer  
 Coolant level warning lamp & buzzer  
 Brake fluid level warning lamp & buzzer  
 Brake adjustment warning lamp & buzzer  
 High beam indicator lamp  
 Turn signal indicator lamp  
 Parking brake indicator lamp  
 Seat belt warning lamp & buzzer  
 Exhaust brake indicator lamp  
 Engine control system warning lamp  
 Hazard indicator lamp  
 Back-up warning buzzer
- Others**
    - Idle up control knob
    - Horn button
    - 12V electric source
    - PTO Engagement switch
    - Tipper control Raise / Hold & Lower lever

### STEERING

Type . . . . .	Telescopic & tilt steering column with locking device. Recirculating ball with Integral Power Steering
Gear ratio . . . . .	18.6:1
Steering angle . . . . .	<b>Inside:</b> 50-53° <b>Outside:</b> 39°

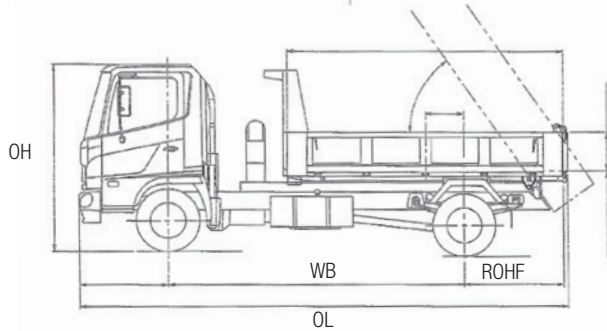
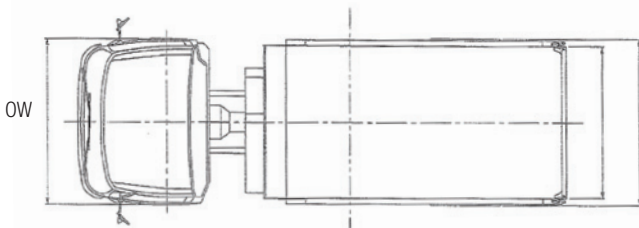
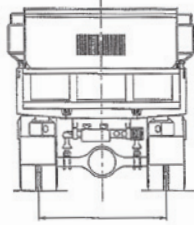
### CHASSIS FRAME / TIPPER PLATING

Type . . . . .	Ladder-shaped channel-section side rails
Rear chassis width . . . . .	820mm
Max. section (depth x flange x thickness) . . . . .	229.4 x 78 x 5.7mm (Compact) 228.4 x 73 x 5.2 (Short 3.6 & 4.0)
Tensile strength . . . . .	540N/mm <sup>2</sup> {55kgf/mm <sup>2</sup> }
Hooks . . . . .	Equipped for front & rear
Steel plate deck thickness . . . . .	6.0mm
Side, front & tailgate . . . . .	3.2mm
Factory FUP . . . . .	Equipped



# FC 1022 Tipper

## Dimensions



### DIMENSIONS - mm / Capacities

<b>Model</b>	Hino FC 1022	Compact 3.6	Short 3.6	Short 4.0
<b>Production code</b>	FC7JEMM-ANU D	FC7JEMA-ANU D	FC7JGMA-ANU D	FC7JGMA-ANU 4.0 D
<b>Wheelbase (WB)</b>	3420	3850	3850	3850
<b>Overall length (OL)</b>	5900	6330	6660	6660
<b>Overall width (OW)</b>	2190	2190	2250	2250
<b>Overall height (OH)</b>	2450	2450	2450	2450
<b>Inside length</b>	3600	3600	4000	4000
<b>Inside width</b>	2000	2000	2060	2060
<b>Road clearance (at diff. case) (RC)</b>	220	220	220	220
<b>Deck height</b>	1100	1100	1100	1100
<b>Front track (FT)</b>	1770	1770	1770	1770
<b>Rear track (RT)</b>	1660	1660	1660	1660
<b>Turning circle kerb to kerb</b>	11,200	12,400	12,400	12,400
<b>Turning circle wall to wall</b>	12,600	13,800	13,800	13,800
<b>Tipper volume</b>	3.6m <sup>3</sup>	3.6m <sup>3</sup>	3.5m <sup>3</sup>	3.5m <sup>3</sup>
<b>Tipping angle</b>	55'	55'	50'	50'
<b>Internal measurements (L x W x H)</b>	3600 x 2000 x 510	3600 x 2000 x 510	4000 x 2060 x 430	4000 x 2060 x 430
<b>Two way gate hinging top &amp; bottom</b>	Equipped	Equipped	N/A	N/A
<b>Two way gate hinging top &amp; side</b>	N/A	N/A	Equipped	Equipped
<b>Body Lock</b>	N/A	N/A	Fitted	Fitted
<b>Chassis mass – kg</b> (standard tools, 10 litres of fuel, without spare tyre)				
<b>Total</b>	4595	4650	4735	4735
<b>Front</b>	2436	2298	2406	2406
<b>Rear</b>	2159	2352	2329	2329
<b>GVM</b>	10,400	10,400	10,400	10,400
<b>GCM</b>	16,000	16,000	16,000	16,000

\*GVM can be derated to 8,000

### GENUINE ACCESSORY OPTIONS

Bull bar	Stoneguard
Chrome wheel covers	Sunvisor
Sat Nav	Timber dash panel
Rear vision camera (up to 3)	Tarp
Roof scoop	Engine driven PTO 1:108 step-up
Side skirts	

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

### WARRANTY

New vehicle warranty period

Medium Duty Model	Axle configuration	Standard warranty (whichever comes first)	Cab corrosion perforation
500 FC 1022 Tipper	4 x 2	3 years or 150,000km	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 \*

\* For conditions, refer to the Hino Parts & Service warranty brochure

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