



# *Specifications*

**Hino Motors, Ltd.**  
TOKYO, JAPAN

## SPECIFICATIONS

Spec. No. SS-FY304  
Drawing No. CDRFY311



# HINO 700 Series

8x4, Truck Chassis

- RHD  
- 410 PS (Euro-4)  
- 35.0 ton GVMR

### RATINGS & AXLE LOAD LIMIT (kg)

( ) ?Maker design

	GVM	Front Axle	Rear Axle
Ratings	32,000 (35,000)	15,000	21,800
Axle Load Limit	(STD-IRE) Front: 315/80R22.5-156/153 Rear : 295/80R22.5-153/150	15,000	21,800
	(OPT) Front: 12R22.5-16PR Rear : 11R22.5-16PR	13,000	
	(STD-UK) Front&Rear: 295/80R22.5-153/150	14,600	

### CHASSIS DIMENSIONS (mm) : All dimensions are to standard specifications and unladen chassis

Model	HINO 73241	
Production Code	FY1EUKA	FY1EUKM
Application	For dump	For mixer
Wheelbase	1,850 + 3,500 + 1,310	
Overall length	9,340	
Overall width	2,490	
Overall Height	OH	3,085
Cab to rear axle center	5,295	
Rear overhang (at frame end)	1,170	
Front Chassis Height	HF	1,080
Rear Chassis Height	HR	1,075
Road clearance (at diff. case)	250	
Front Tread	FT	2,035
Rear Tread	RT	1,855
Turning radius on tire	11,100	
Turning radius on wall to wall	11,800	

### CHASSIS MASS (kg) : Chassis mass quoted is to standard specifications without spare tire & std. tool set

Chassis Mass	(Total)	9,255	9,305
	(Front)	6,210	6,250
	(Rear)	3,045	3,055

### PERFORMANCE & GEAR RATIOS : Calculations based on 32.0 ton GVM, 295/80R22.5 tire

Max. Speed (km/h)	Below 90 Km/Hr (controlled by speed limiter)	
Gradeability tanθ (%)	60.0	
Transmission Gear Ratio	Model	ZF 16S221
	1st	13.804 / 11.539
	2nd	9.487 / 7.930
	3rd	6.529 / 5.458
	4th	4.565 / 3.816
	5th (Low/High)	3.023 / 2.527
	6th	2.078 / 1.737
	7th	1.430 / 1.195
	8th	1.000 / 0.835
	Rev.	12.923 / 10.803
Rear Axle	Model	THD17
	Gear Ratio	4.100

<b>ENGINE</b>		<b>SERVICE BRAKE</b>	
1.Model	HINO E13C UN	1.Type	Full air, dual circuit, taper roller type, leading & trailing shoes for front and rear
2.Max. output;(JIS GROSS)	302 kW {410 PS} at 1,800 r/min	2.Wheel brake ass'y	Drum diameter x Lining width
3.Max. torque;(JIS GROSS)	1,863 N m {190 kgf m} at 1,100 r/min	Front	406.4 x 152 mm
4.Max. engine speed	2,000 r/min	Rear	406.4 x 216 mm
5.Type	Diesel, turbo charged intercooled, 4-cy., vertical, 6-cyl., in-line, overhead camshaft, water cooled	3.Air drier	Equipped
6.Combustion system	Direct injection type	4.ABS system	Equipped
7.Bore and stroke	137 x 146 mm	5.Auto brake shoes adjuster	Equipped
8.Piston displacement	12.913 L	<b>SECONDARY AND PARKING BRAKE</b>	
9.Compression ratio	17.0	1.Type	Spring brake acting on front rearward and rear frontward wheels, for emergency and parking purpose, manual control
10.Engine oil capacity	37.0 L	<b>STEERING</b>	
11.Engine coolant capacity	28.5 L	1.Type	Telescopic and tilt steering column with locking device Recirculating ball with hydraulic booster integral type
12.Fuel injection pump		2.Gear ratio	22.4
Type	Electronic control common rail type	<b>RETARDER</b>	
Governor	Electric governor	1.Type	Hino engine retarder
13.Intake system		<b>FRONT SUSPENSION</b>	
Air cleaner	Dual paper elements	1.Type	Semi-elliptic tapered leaf springs with shock absorbers and stabilizer
14.Air compressor		2.Dimensions of springs	
Type	Single cylinder, water-cooled	Span	1,500 mm
Bore and stroke	85 x 60 mm	Width	90 mm
15 Fly wheel P.T.O.	Equipped (for FY1EUKM only)	<b>REAR SUSPENSION</b>	
16 Engine control link	Equipped	1.Type	Semi-elliptic leaf springs with torque rods
17 Insect protection	Equipped	2.Dimensions of springs	
<b>CLUTCH</b>		Span	1,310 mm
1.Type	Dry single plate with damper springs	Width	90 mm
2.Clutch disc ass'y	CS-430 series	<b>WHEEL AND TIRE</b>	
3.Facing material	Semi-mold	1.Wheel type	10-stud disc wheels (ISO type)
4.Facing outside diameter	430 mm	2.Rim size, front	22.5 x 9.00 - offset 175 mm
5.Clutch cover ass'y	DSP-430 series	rear	22.5 x 8.25 - offset 165 mm
6.Control	Hydraulic with air booster	3.Tire size, front	315/80R22.5-156/153
<b>TRANSMISSION</b>		rear	295/80R22.5-153/150
1.Type 16s221	ZF, sixteen forward and two reverse speeds, overdrive, synchromesh 1st - 16th	4.Number of tires	Twelve (12) numbers
2.Control	Mechanical control with power shift	<b>FUEL TANK</b>	
<b>PROPELLER SHAFT</b>		1.Capacity	300 L
1.Propeller shaft ass'y		2.Fuel pre-filter and sedimenter	Equipped
T/M ~ R/A	Tube type	3.Fuel tank cap key	Equipped
R/A ~ R/A	Solid type		
2.Universal joints	Round bearing type		
3.Center bearing	1-piece		
<b>FRONT AXLE</b>			
1.Front axle ass'y	MF78 series		
2.Type	Reversed Elliot, " " section beam		
<b>REAR AXLE</b>			
1.Type	Tandem axle,dual drive with inter axle differential, full floating single reduction, single speed by hypoid gearings with inter axle differential lock, "No SPIN"		

<b>CHASSIS FRAME</b>		2.Warning, pilot lamps and buzzers Engine oil pressure warning lamp and buzzer Air pressure warning lamp and buzzer Buck-up warning buzzer Charging warning lamp Beam indicator lamp Turn signal indicator lamp Parking brake indicator lamp Coolant level warning lamp and buzzer Differential lock indicator lamp Engine over-run warning buzzer Fuel level warning lamp Battery charging pilot lamp ABS warning lamp Engine retarder indicator lamp Sedimenter water level warning lamp Transmission splitter range indicator lamp	
1.Type	Ladder-shaped channel section side rails		
2.Rear chassis width	850 mm	3.Switches Lighting switch Directional indicator, dimmer and passing switch Wiper and washer switch Hazard lamp switch Fog lamp switch Doom lamp switch Warning lamp check switch Map lamp switch Differential lock switch Mirror heating switch	
3.Max. section (depth x flange x thickness)	302 x 88 x 9.0 mm		
4.Tensile strength	540 N/m {55 kgf/m }		
5. Hooks	Equipped for front and rear		
<b>CAB</b>			4.Others One-key starting-stopping Throttle control knob Horn button
1. Type	Forward control, all steel welded construction, full floating cab (front:air, rear:air) with electrical oil-pump tilting mechanism		
2. Seating capacity	Two		
3. Driver's seat	Air Suspension seat		
4. Side passenger's seat	Urethane foam pads, high-back and reclining seat with fabric cover and under tray		
5. Center console	Equipped		
6. Seat belts	3-point type on driver's & side passenger's seat		
7. Rear view mirrors	Electrically adjustable & heated		
8. Windshield wipers	Electric, triple, intermittent and 2-speed		
9. Sun visor and over-head console	Two, for driver and side passenger		
10 Center over-head console	Equipped		
11 Cigarette lighter	Equipped		
12 Ventilator	Forced type by electric blower		
13 Car heater and defroster	Equipped	<b>ELECTRICAL EQUIPMENT</b>	
14 Sleeping bed	Equipped		
15 Audio	AM/FM radio with cassette tape and CD player		
16 Floor mat	Vinyl type		
17 Cab step	Equipped		
18 Trim	Full trim type (side, roof and back)		
19 Electrical power window	Equipped with both side		
20 Electrical door lock	Equipped		
21 Door pockets	Equipped at both door side		
22 Tire inflator	Not equipped		
23 Transmission P.T.O. and P.T.O. control	Equipped (for FY1EUKA only)		
24 Cushioned Rear Lamps	Equipped		
25 Exterior Sunvisor	Equipped		
26 Speaker	Equipped with front 3		
27 Ashtray	Driver and assistant		
28 Power window	Driver and assistant		
<b>INSTRUMENTS</b>		5.Lamps Headlamps Fog lamps License plate lamp Stop/Tail lamps Back-up lamp Directional indicator and hazard lamps (front, side and rear) Reading lamp (Fluorescent lamp) Map lamp Step lamp (for driver) Electric horn (Air horn OPT)	
1.Meter and gauges	km-kg system		
Speedometer with trip meter			
Odometer			
Tachometer			
Fuel gauge			
Coolant temperature gauge			
Air pressure gauge			
		6.Horn	

OPTIONAL EQUIPMENT	
1. Vertical Exhaust in stainless steel incorporating O.E.M. Muffler	
2. Alloy Road Wheels	Alcoa forged alluminium alloy roadwheels. ( 22.5X8.25 rim and or 22.5X9.00 rim )
3. Central Chassis lubrication System	
4. Alloy Fuel Tank 300Ltrs	
5. Illuminated Headboard	
6. Rotating Beacons roof mounted	
7. Air conditioner	
8. Sleeping bed curtain	
9. Night Heater	
10. Comfort Mattress	
11. Front Roof spoiler	
12. Hi-Roof Conversion	
	13. Reversing Camera System
	14. "Handbrake not applied" audible warning
	15. Visible "Diff Lock engaged" warning lamp
	16. Stainless Steel Lighting Bars: Roof and Front mount
	17. Lighting options: Work Lamps Spot Lamps Lightbars
	18. Bodies:
	Muckaway Steel or Hardox Tipper
	Tipper Grab
	Alloy Aggregate
	Alloy Insulated
	Hookloader
	Concrete Mixer
	Block/Brick Carrier
	Cheese Wedge
	19. Onboard Weighing Systems

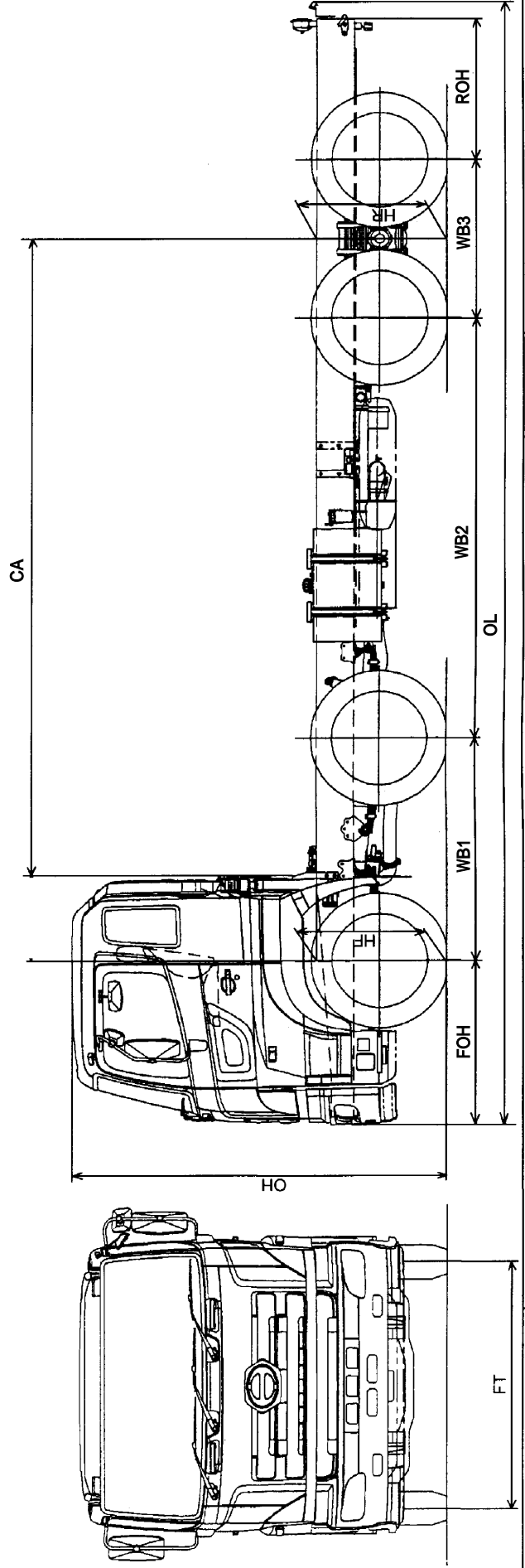
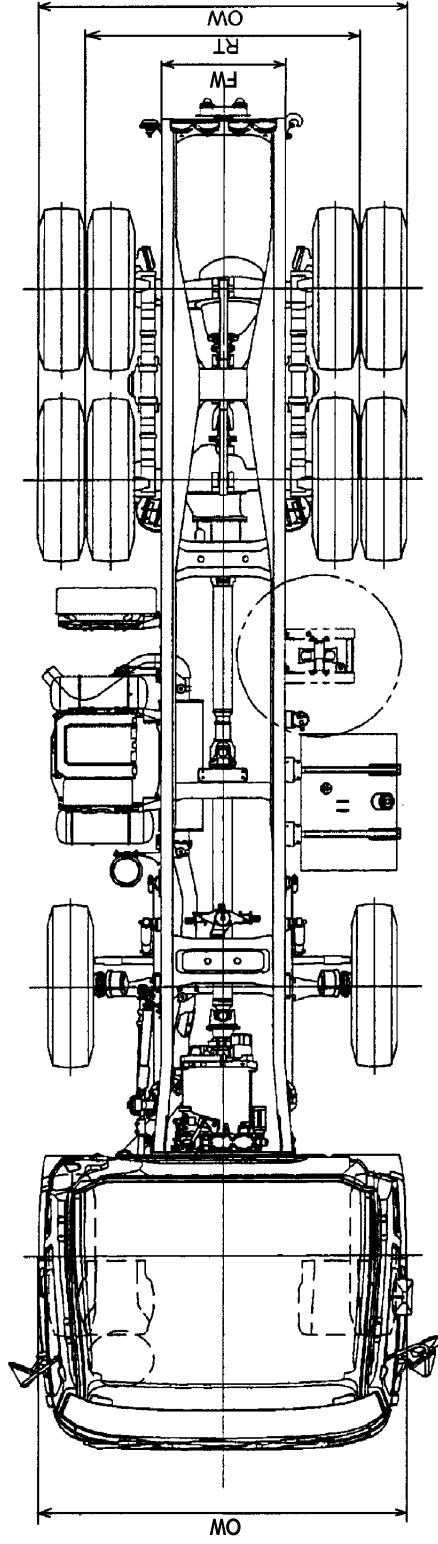
Note: All specifications of the products are with normal manufacturing allowances and tolerances.

Hino Motors, Ltd. reserve the right to alter specifications at any time without previous notice.

Figures of axle capacity can be changed by the operating conditions and specifications of equipments concerned.

When selecting optional equipment, consult Hino technical staff as the adaptation of some of the optional equipment on production line may require an extra lead time.

MODEL	TIRE SIZE		DISC SIZE		DIMENSION(mm)															
	FRONT	REAR	FRONT	REAR	FOH	WB1	WB2	WB3	ROH	OL	CA	OW	RW	FW	FT	RT	OH	HF	HR	
FY1EUKA	315/80R22.5	295/80R22.5	22.5X9.00-175	22.5X8.25-165	1370	1850	3500	1310	1310	9340	5295	2490	2485	850	2035	1855	3085	1080	1075	
FY1EUKM																				



MODEL

HINO FY1EUKA/UKM CHASSIS

DRAWING No.

CDRFY311