



RANGER-PRO 5

DUMP MODELS

• RATINGS (kg)

	GVM	GCM
Ratings	10,400	15,000

with **3.6m³ TIPPER BODY**

DIMENSIONS (mm): All dimensions are to standard specification and unladen chassis

Model		RANGER PRO 5 DUMPS with 3.6m ³ TIPPER BODY	
Model Ordering Code		FC4JEPM COMPACT DUMP	FC4JGPA SHORT DUMP
Wheelbase	WB	3,420	3,850
Overall Length	OL	5,900	6,330
Overall Width	OW	2,200	
Overall Height	OH	3,250	
Cab Height		2,450	
Front Overhang	FOH	1,145	
Rear Overhang	ROH	1,280	
Rear Chassis Height	HR	835	
Front Track	FT	1,770	
Rear Track	RT	1,660	
Road clearance (at diff. Case)		215	
Turning Radius (kerb to kerb)		5,500	6,100
Turning Radius (Swept)		6,200	6,800

• CHASSIS MASS (kg):

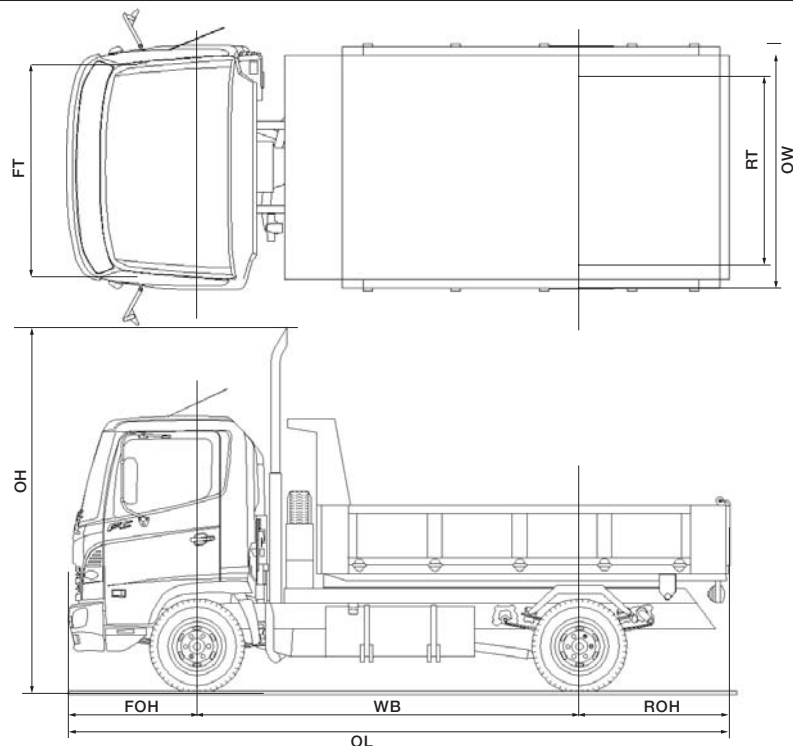
 Chassis mass quoted is to standard specification with full tank of fuel but without spare tyre and tool kit

Chassis Mass (kg)	Total	4,300	4,430
	Front	2,240	2,185
	Rear	2,060	2,245
Approx Pay Load		6,100	5,970

• PERFORMANCE:

 Calculations based on Engine speed 2,900 r/min at rated GVM and standard specifications

Max. theoretical speed km/h	106	112
Gradeability (theoretical, tanθ)%	40.0	37.7



Drawings for illustration purposes only

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● ENGINE		HINO J05C-TJ		● CHASSIS FRAME	
Max. output (JIS Gross)		125 kW at 2,500 rpm		Type	Parallel Chassis
Max. torque (JIS Gross)		500 Nm at 1,500 rpm		Rear chassis width	820mm
Max engine speed		2,900 rpm		Size	228.6 x 73 x 5.3mm
Type		Diesel, turbo charged & inter-cooled, 4 cylinder in-line with 4 valves per cylinder and overhead camshaft. Mechanical Governor.		Tensile strength	540N/mm2 {55kgf/mm2}
		Combustion by Timed Injection-rate Control System (TICS) and employing Hino's Micro Mixing System (HMMS)		Hook	Equipped for front & rear
Bore and Stoke		114 x 130mm		Tool Box	Mounted on chassis
Displacement		5,307cc		● CAB	
Compression Ratio		18.0:1		Type	EGIS safety cab. Forward Control, all steel construction with torsion bar tilt mechanism.
Cooling Fan		Indirect type fitted with viscous coupling		Seating capacity	Three
● CLUTCH		Hino CS-350		Driver's seat	ISRI air suspension seat with an automatic pressure setting according to driver's weight. Adjustable slide, height, recline, swab angle and head restraint. Urethane foam padding with fabric upholstery. Three point auto retracting lap sash belt.
Type		Dry single plate with damper springs		Side passengers seat	Reclining high back urethane padded seat with head restraint and fabric upholstery. Three point auto retracting lap sash belt
Control		Hydraulic with air booster		Centre passenger's seat	Urethane foam padded seat and backrest which folds flat into a snack bench with a storage console. Fabric upholstery. Two point lap seat belt
Facing Material		Asbestos Free		Sun Visor	Fitted for driver and passenger side
Facing outside diameter		350mm		Windshield wipers	2-speed and intermittent control
● TRANSMISSION		LX06S		Rear view mirrors	2 x West Coast type with spotter mirror on LHS
Type		6 Forward & 1 Reverse speeds with mechanical control and power assisted shift. Synchromesh 2nd-6th		Over-head console	Fitted for driver and passenger side
Gear Ratio		1st 8.190 5th 1.343 2nd 5.072 6th 1.000 3rd 2.981 Rev. 7.619 4th 1.848		Audio	AM/FM radio cassette
● FRONT AXLE		LF366		Air Conditioner	Fitted as standard. Ventilation is forced type by electric blower through 12 outlets.
Type		Reversed Elliot 'I' section beam		Headlamp Adjustment	Electro-rheostat headlamp levelling adjustment
Capacity		3,600kg		● INSTRUMENTS	
● REAR AXLE		SH13-2		Meters and gauges	
Type		Full-floating, single reduction, single speed with hypoid gears		Speedometer	Fuel gauge
Capacity		7,000kg		Odometer with 2 trip meters	Coolant Temperature Gauge
Ratio		(4.100:1 Compact) (3.900:1 Short)		Tachometer	Air pressure gauge (Front & Rear)
● PROPELLER SHAFT		LD0932		Warning, pilot lamps and buzzers	
Universal joints		Round bearing type		Oil pressure warning lamp & buzzer	Charging warning lamp
Centre Bearing		1-piece		Air pressure warning lamp & buzzer	Beam indicator lamp
● BRAKES		Air over hydraulic, dual circuit with two leading shoes for front and rear acting on all wheels. 320 x 110mm 320 x 145mm 3,216 cm ² Equipped Equipped Single Cylinder water-cooled type Equipped Equipped Transmission mounted Electric-pneumatic operation with butterfly type valve		Engine over-run warning buzzer	Turn signal indicator lamp
Type				Brake fluid level warning lamp & buzzer	Parking brake indicator lamp
Size - Front				Brake adjustment warning lamp & buzzer	Seat belt warning lamp and buzzer
Size - Rear				Exhaust brake indicator lamp	Reverse warning buzzer
Effective Lining Area				Injection pump electrical warning lamp	Hazard warning lamp
Brake Lock System				Brake lock indicator lamp & buzzer	
Air Dryer				Switches	
Air Compressor				Lighting switch	Exhaust brake switch
ABS				Wiper and washer switch	Hazard lamp switch
Easy Start				Directional indicator and dimmer switch	Fog lamp switch
Park Brake				Others	
Exhaust Brake				One-key starting-stopping	Horn button
● STEERING		Collapsible telescopic and tilt steering column and wheel with locking device. Recirculating ball with hydraulic booster, integral type		● ELECTRICAL EQUIPMENT	
Type		Collapsible telescopic and tilt steering column and wheel with locking device. Recirculating ball with hydraulic booster, integral type		Type	24 volt, negative earth
Gear Ratio		18.61:1		Batteries	12 V x 2, series connection
● FRONT SUSPENSION		Taper leaf springs with double acting shock absorbers		Capacity:	65 Ah at 20-hour rate
Type		Taper leaf springs with double acting shock absorbers		Alternator	24V, 50A with built in rectifier & voltage regulator
Size		1,300 x 70mm		Headlamps	Semi-sealed beam, halogen type with integrated Fog lamps
Leaves		18.5 mm x 1 + 19.8mm x 1 + 16.2mm x 1		Other lamps	Clearance lamps, License plate lamp, Reversing lamp, Stop/Tail lamps, Roof Marker lamps, Internal lamps.
● REAR SUSPENSION		Semi-elliptic main and auxiliary springs		● TIPPER BODY	
Type		Semi-elliptic main and auxiliary springs		Volume	3.6m3
Main - Size		1,300 x 70mm		Dumping Angle	55°
- Leaves		11mm x 8		Lifting time	20 seconds
Auxiliary - Size		900 x 70mm		Lowering time	20 seconds
- Leaves		10mm x 8 + 9mm x 1		Construction	All steel plate welded construction with automatic release type tailgate
● WHEEL & TYRE		6-stud disc wheel (JIS type)		Dimensions (inside) LxWxH	3,600mm x 2,000mm x 510mm
Wheel type		6-stud disc wheel (JIS type)		Thickness	Deck plate 6.0mm Front plate 3.2mm Tailgate plate 3.2mm Side plate 3.2mm
Rim size		6.75 x 17.5 - offset 135mm		Dump Cylinder	Kyokuto VE10-06
Tyre size		9.5R17.5-129/127		Type	Single action with link
Number of tyres		7 (including one spare tyre)		Bore & Stroke	100mm x 480mm
Spare tyre carrier		Equipped		Hydraulic pump	Kyokuto VC03-16. Gear type
Spare tyre carrier		Equipped		PTO & dumping control	Lever installed in cab
Tool Kit		Includes wheel brace and hydraulic jack		● OPTIONAL EQUIPMENT	
Capacity		200 litres			
Fuel pre-filter & sedimenter		Equipped with water separator			