



# RANGER-PRO 7

• RATINGS (kg)

4x2 Truck Chassis

	GVM	GCM
Ratings	12,000	18,000

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

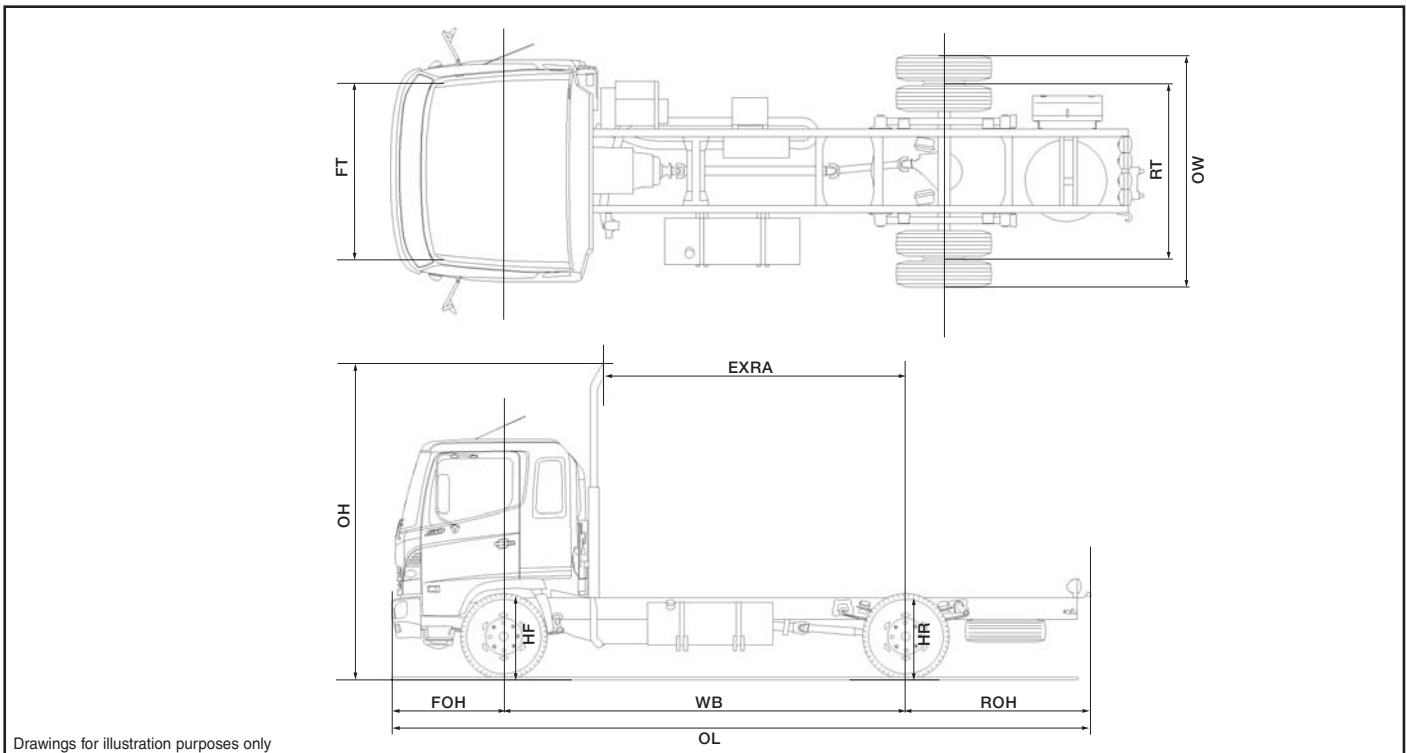
Model		Medium	Long
Model Ordering Code		GD1JJPA	GD1JLPA
Wheelbase	WB	4,250	4,850
Overall Length	OL	7,390	8,240
Overall Width	OW		2,270
Overall Height	OH		3,325
Cab Height			2,515
Exhaust to Rear Axle Centre	EXRA	3,245	3,845
Front Overhang	FOH		1,185
Rear Overhang	ROH	1,810	2,060
Front Chassis Height	HF		840
Rear Chassis Height	HR		925
Front Track	FT		1,765
Rear Track	RT		1,720
Road clearance (at diff. Case)			235
Turning Radius (kerb to kerb)		7,400	8,400
Turning Radius (Swept)		8,100	9,100

• **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	3,850	3,930
	Front	2,345	2,400
	Rear	1,505	1,530

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

Max. theoretical speed km/h	125
Gradeability (theoretical, tanθ)%	46.4



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<b>• ENGINE</b>		<b>• CHASSIS FRAME</b>	
Max. output (JIS Gross)	HINO J08C-UJ 173 kW at 2,500 rpm	Type	Parallel Chassis
Max. torque (JIS Gross)	706 Nm at 1,500 rpm	Rear chassis width	820mm
Max engine speed	2,900 rpm	Size	229.4 x 78 x 5.7mm (Medium) 231.6 x 78 x 6.8mm (Long)
Type	Diesel, turbo charged & inter-cooled, 6 cylinder in-line with 4 valves per cylinder and overhead camshaft. Mechanical Governor. Combustion by Timed Injection-rate Control System (TICS) and employing Hino's Micro Mixing System (HMMS)	Tensile strength	540N/mm <sup>2</sup> {55kgf/mm <sup>2</sup> }
Bore and Stroke	114 x 130mm	Hook	Equipped for front & rear
Displacement	7,961cc	Tool Box	Mounted on chassis
Compression Ratio	18.0:1	<b>• CAB</b>	
Cooling Fan	Indirect type fitted with viscous coupling	Type	EGIS safety cab. Forward Control, all steel construction with torsion bar tilt mechanism.
<b>• CLUTCH</b>		Seating capacity	Three
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 with a height adjustable shoulder anchor
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	Cerametallic	Sun Visor	Fitted for driver and passenger side
Facing outside diameter	350mm	Windshield wipers	2-speed and intermittent control
<b>• TRANSMISSION</b>		Rear view mirrors	2 x West Coast type with spotter mirror on LHS
LJ06S		Over-head console	Fitted for driver and passenger side
Type	6 Forward & 1 Reverse speeds. Over Drive with mechanical control and power assisted shift. Synchromesh 2nd-6th	Audio	AM/FM radio cassette
Gear Ratio	1st 6.893 5th 1.000 2nd 4.274 6th 0.770 3rd 2.607 Rev. 6.453 4th 1.564	Air Conditioner	Fitted as standard. Ventilation is forced type by electric blower through 12 outlets.
<b>• FRONT AXLE</b>		Front air spoiler	Equipped
LF458		Headlamp Adjustment	Electro-rheostat headlamp levelling adjustment
Type	Reversed Elliot 'I' section beam	<b>• INSTRUMENTS</b>	
Capacity	4,500kg	<b>Meters and gauges</b>	
<b>• REAR AXLE</b>		Speedometer	Fuel gauge
SH14-1		Odometer with 2 trip meters	Coolant Temperature Gauge
Type	Full-floating, single reduction, single speed with hypoid gears	Tachometer	Air pressure gauge (Front & Rear)
Capacity	8,500kg	<b>Warning, pilot lamps and buzzers</b>	
Ratio	5.125:1	Oil pressure warning lamp & buzzer	Charging warning lamp
<b>• PROPELLER SHAFT</b>		Air pressure warning lamp & buzzer	Beam indicator lamp
LF0932		Engine over-run warning buzzer	Turn signal indicator lamp
Universal joints	Round bearing type	Brake fluid level warning lamp & buzzer	Parking brake indicator lamp
Centre Bearing	1-piece	Brake adjustment warning lamp & buzzer	Seat belt warning lamp and buzzer
<b>• BRAKES</b>		Exhaust brake indicator lamp	Reverse warning buzzer
Type	Air over hydraulic, dual circuit with two leading shoes for front and rear acting on all wheels	Injection pump electrical warning lamp	Hazard warning lamp
Size - Front	400 x 120mm	Coolant level warning lamp & buzzer	
Size - Rear	400 x 155mm	<b>Switches</b>	
Effective Lining Area	4,544 cm <sup>2</sup>	Lighting switch	Exhaust brake switch
Air Dryer	Equipped	Wiper and washer switch	Hazard lamp switch
Air Compressor	Single Cylinder water-cooled type	Directional indicator and dimmer switch	
Park Brake	Spring Brake acting on rear wheels	<b>Others</b>	
Exhaust Brake	Electric-pneumatic operation with butterfly type valve	One-key starting-stopping	Horn button
<b>• STEERING</b>		Throttle control knob	
Type	Collapsible telescopic and tilt steering column and wheel with locking device. Recirculating ball with hydraulic booster, integral type	<b>• ELECTRICAL EQUIPMENT</b>	
Gear Ratio	19.05:1	Type	24 volt, negative earth
<b>• FRONT SUSPENSION</b>		Batteries	12 V x 2, series connection
Type	Taper leaf springs with double acting shock absorbers	Capacity:	65 Ah at 20-hour rate
Size	1,300 x 70mm	Alternator	24V, 50A with built in rectifier & voltage regulator
Leaves	18.5 mm x 1 + 19.8mm x 1 + 16.2mm x 1	Headlamps	Semi-sealed beam, halogen type with integrated Fog lamps
<b>• REAR SUSPENSION</b>		Other lamps	Clearance lamps, License plate lamp, Reversing lamp, Stop/Tail lamps, Roof Marker lamps, Internal Dome lamps.
Type	Semi-elliptic main and auxiliary leaf springs	12 volt electrical source	Equipped
Main - Size	1,300 x 70mm	<b>• OPTIONAL EQUIPMENT</b>	
- Leaves	11mm x 5 + 10mm x 4	Engine Driven PTO	
Auxiliary - Size	900 x 70mm	ABS Braking System (available by irrevocable order only)	
- Leaves	10mm x 9		
<b>• WHEEL &amp; TYRE</b>			
Wheel type	8-stud disc wheel (JIS type)		
Rim size	6.75 x 22.5 - offset 152mm		
Tyre size	255/70R22.5-140/137		
Number of tyres	7 (including one spare tyre)		
Spare tyre carrier	Equipped		
Tool Kit	Includes wheel brace and hydraulic jack		
<b>• FUEL TANK</b>			
Capacity	200 litres		
Fuel pre-filter & sedimenter	Equipped with water separator		