



RANGER-PRO 8Z

• RATINGS (kg)

4 x 4 Truck Chassis

	GVM	GCM
Ratings	13,000	21,000

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

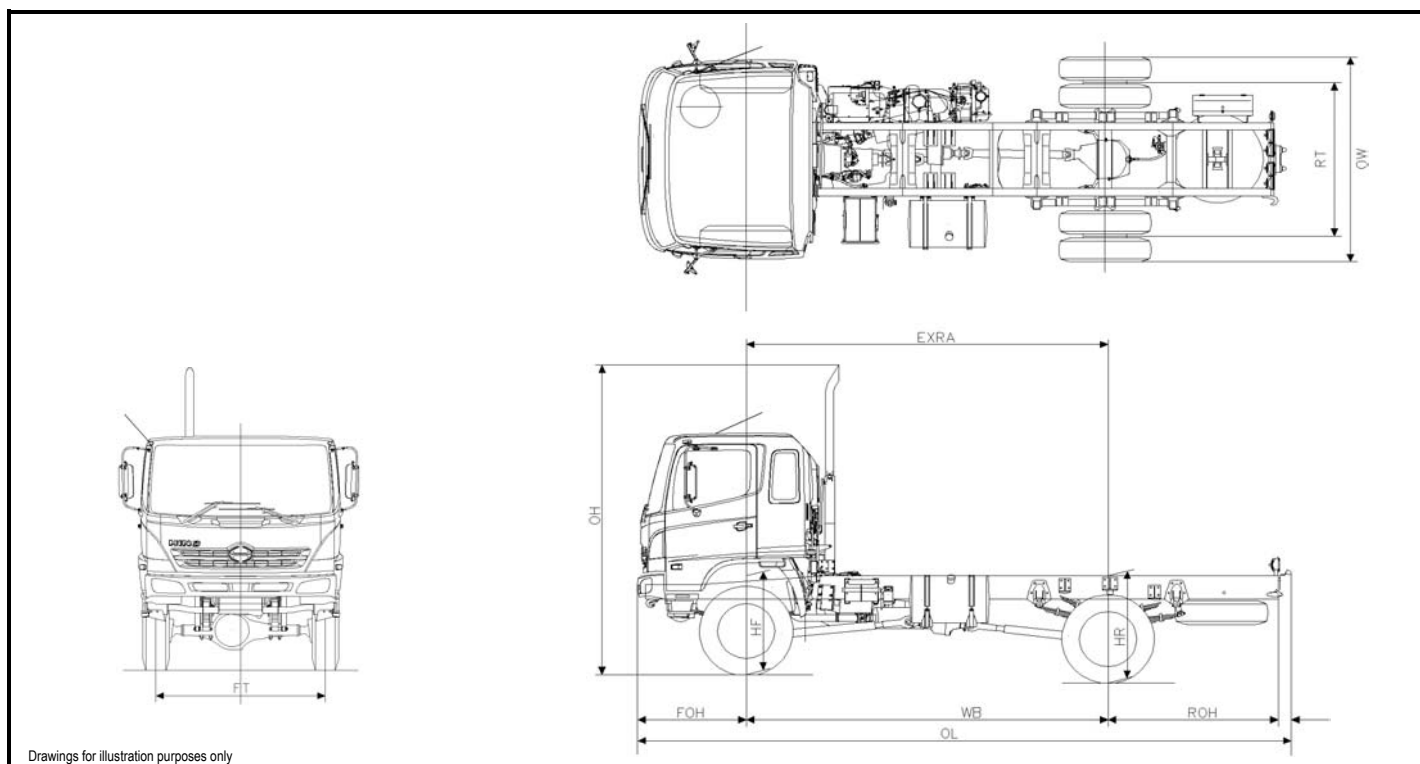
Model		Medium	Long
Model Ordering Code		GT1JHPA	GT1JKPA
Wheelbase	WB	4,100	4,650
Overall Length	OL	7,410	7,960
Overall Width	OW		2,380
Overall Height	OH		3,610
Cab Height			2,800
Exhaust to Rear Axle Centre	EXRA	3,095	3,645
Front Overhang	FOH		1,235
Rear Overhang	ROH		1,930
Front Chassis Height	HF		1,115
Rear Chassis Height	HR		1,215
Front Track	FT		1,950
Rear Track	RT		1,820
Road clearance (at diff. case)			210
Turning Radius (kerb to kerb)		8,880	9,900
Turning Radius (Swept)		9,525	10,625

• CHASSIS MASS (kg) : Chassis mass quoted is to standard specifications with full tank of fuel but without spare tyre and tool kit

Chassis Mass (kg)	Total	5,050	5,180
	Front	3,070	3,165
	Rear	1,980	2,015

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

Max. theoretical speed km/h	99
Gradeability (theoretical, tanθ) %	60.0



Drawings for illustration purposes only

Important Notice

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● ENGINE		HINO J08C-UM		● FUEL TANK	
Max. output (JIS Gross)	158 kW at 2,500 rpm	Capacity	200 L	Fuel pre-filter and sediment	Equipped, with Water Separator
Max. torque (JIS Gross)	608 Nm at 1,500 rpm	● CHASSIS FRAME			
Max. engine speed	2,900 rpm	Type	Parallel Chassis	Rear chassis width	870 mm
Type	Diesel, turbo charged & intercooled, 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)	Size	270.0 x 90 x 8 mm	Tensile strength	540N/mm ² {55 kcf/mm ² }
Bore and stroke	114 x 130 mm	Hook	Equipped for front & rear	Tool Box	Mounted on chassis
Displacement	7,961cc	● 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		Driver's seat	ISRI air suspension with an automatic pressure setting according to drivers 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		
Hino CS-350		Side passenger's seat	Reclining high back urethane padded seat with head restraint and fabric upholstery. 3 point auto retracting lap sash belt		
Type	Dry single plate with damper springs	Centre passenger's seat	Urethane foam padded seat and backrest which folds flat into a snack bench with a storage tray,fabric upholstery. Two point lap seat belt		
Control	Hydraulic with air booster	Sun Visor	Fitted for driver and passenger side		
Facing material	Cerametallic	Windshield wipers	2-speed and intermittent control		
Facing outside diameter	350 mm	Rear view Mirrors	2 x West Coast type with spotter mirror on LHS		
● TRANSMISSION		Over-head console	Fitted for driver and passenger side		
LX06S TRANSFER MA12C		Audio	AM/FM radio with Tape Player		
Type	6 Forward & 1 Reverse speeds. Direct Drive with mechanical control. Synchromesh 2nd-6th				
Transfer	High(1.000)	Low(2.224)			
Gear Ratio	1st	6.515	14.489		
	2nd	4.122	9.167		
	3rd	2.500	5.560		
	4th	1.718	3.820		
Transfer	5th	1.261	2.804		
	6th	1.000	2.224		
	Rev.	6.060	13.477		
● FRONT AXLE		Air conditioner	Fitted as standard. Ventilation is forced type by electric blower through 12 outlets		
SS15		Headlamp Adjustment	Electro-rheostat headlamp levelling adjustment		
Type	Full-floating, single reduction, single speed, by spiral bevel gears with constant velocity universal joints				
Capacity	4,800kg				
● REAR AXLE		● INSTRUMENTS			
SH16-1		Meters and gauges			
Type	Full-floating, single reduction, single speed, with hypoid gears and "No Spin" differential lock				
Capacity	9,200kg				
Ratio	5.428:1				
● PROPELLER SHAFT		Speedometer	Fuel gauge		
LD0932/LF0932		Odometer with 2 trip meters	Coolant temperature gauge		
Universal joints	Round bearing type				
● BRAKES		Tachometer	Air pressure gauge (Front & Rear)		
Type	Air over hydraulic, dual circuit system with two leading shoes for front and rear acting on all wheels				
Size - Front	400 x 120mm				
- Rear	400 x 155mm				
Effective Lining area	4,544cm ²				
Air Dryer	Equipped				
Air Compressor	Single Cylinder water cooled type				
Park Brake	Spring Brake acting on rear wheels				
Exhaust Brake	Electric-pneumatic operation with butterfly type valve				
● STEERING		Warning, pilot lamps and buzzers			
Type	Collapsible Telescopic and tilt steering column and wheel with locking device. Recirculating ball with hydraulic booster integral type				
Gear Ratio	19.05:1				
● FRONT SUSPENSION		Oil pressure warning lamp & buzzer	Charging warning lamp		
Type	Semi-elliptic leaf springs with double acting shock absorbers				
Size	1,400 x 80mm				
Leaves	11 mm x 1 + 9 mm x 1 + 10 mm x 9				
● REAR SUSPENSION		Air pressure warning lamp and buzzer	Beam indicator lamp		
Type	Semi-elliptic main and auxiliary leaf springs				
Main	- Size	1,600 x 80mm			
	- Leaves	13 mm x 5 + 12 mm x 5			
Auxiliary	- Size	1,050 x 80mm			
	- Leaves	11 mm x 3 + 10 mm x 8			
● WHEEL AND TYRE		Engine over-run warning buzzer	Turn signal indicator lamp		
Wheel type	8-stud disc wheel (JIS type)				
Rim size	7.00T x 20 - offset 152 mm				
Tyre size	9.00R20-140/137				
Number of tyres	7 (including one spare tyre)				
Spare tyre carrier	Equipped with tyre inflator				
Tool Kit	Includes wheel brace and hydraulic jack				
		Brake fluid level warning lamp & buzzer	Parking brake indicator lamp		
		Brake adjustment warning lamp & buzzer	Seat belt warning lamp and buzzer		
		Exhaust brake indicator lamp	Reverse warning buzzer		
		Injection pump electrical warning lamp	Hazard warning lamp		
		Coolant level warning lamp & buzzer			
		Switches			
		Lighting switch	Fog lamp switch		
		Wiper and washer switch	Exhaust brake switch		
		Directional indicator and dimmer switch	Hazard lamp switch		
		Others			
		One-key starting-stopping	Horn button		
		Throttle control knob			
		● ELECTRICAL EQUIPMENT			
		Type	24 volt, negative earth		
		Batteries	12 V x 2, series-connection		
		Alternator	Capacity: 120Ah at 20-hour rate		
		Headlamps	24 V, 80 A with built-in rectifier & voltage regulator		
		Other lamps	Semi-sealed beam, halogen type with integrated Fog lamps		
		12 volt electrical source	Clearance lamps, License plate lamp, Reversing lamp, Stop/Tail lamps, Roof Marker lamps, Internal Dome lamps (2)		
		● OPTIONAL EQUIPMENT			
		Equipped			
		Engine Driven Power Take Off			
		ABS Braking System (available by irrevocable order only)			
		Horizontal Exhaust			