



RANGER-PRO 7 ACE

• RATINGS (kg)

4x2 Truck Chassis

	GVM	GCM
Ratings	12,000	18,000

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

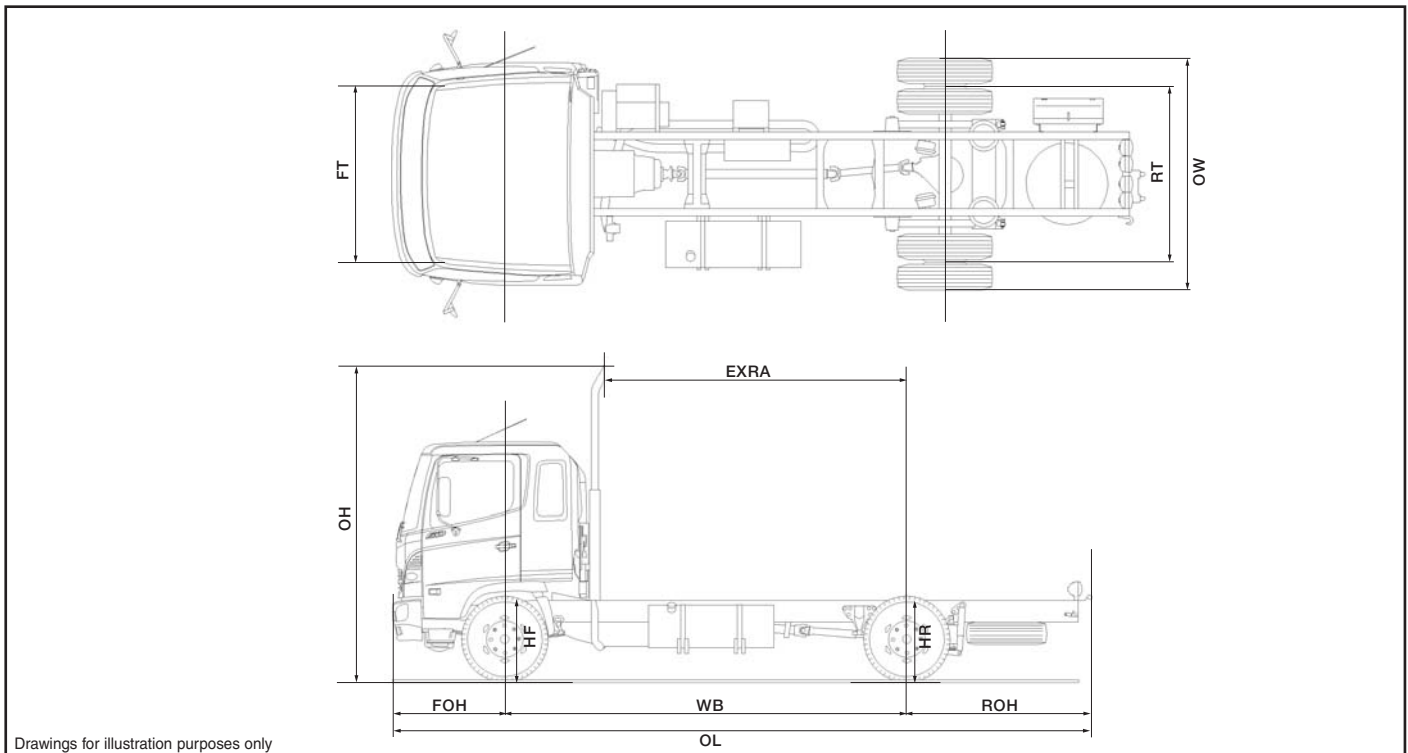
Model		Medium ACE	Long ACE	XLong ACE
Model Ordering Code		GD1JJPG	GD1JLPG	GD1JPPG
Wheelbase	WB	4,250	4,850	5,500
Overall Length	OL	7,390	8,240	9,250
Overall Width	OW		2,270	
Overall Height	OH		3,325	
Cab Height			2,515	
Exhaust to Rear Axle Centre	EXRA	3,245	3,845	4,495
Front Overhang	FOH		1,185	
Rear Overhang	ROH	1,810	2,060	2,420
Front Chassis Height	HF		840	
Rear Chassis Height	HR		860	
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	9,400
Turning Radius (Swept)		8,100	9,100	10,100

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

	Total	Medium ACE	Long ACE	XLong ACE
Chassis Mass (kg)		3,755	3,860	3,960
	Front	2,360	2,415	2,475
	Rear	1,415	1,445	1,485

• **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



Drawings for illustration purposes only

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● ENGINE		● CHASSIS FRAME	
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) 233.0 x 78 x 7.5mm (Xlong)
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 ² {55kgf/mm ² }
Bore and Stroke	114 x 130mm	Hook	Equipped for front & rear
Displacement	7,961cc	Tool Box	Mounted on chassis
Compression Ratio	18.0:1	● CAB	
Cooling Fan	Indirect type fitted with viscous coupling	Type	EGIS safety cab. Forward Control, all steel construction with torsion bar tilt mechanism.
● CLUTCH		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
● TRANSMISSION		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 with CD Player
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.
● FRONT AXLE		Front air spoiler	Equipped
LF458		Power Windows	Equipped
Type	Reversed Elliot 'I' section beam	Door Lock	Electric
Capacity	4,500kg	Headlamp Adjustment	Electro-rheostat headlamp levelling adjustment
● REAR AXLE		● INSTRUMENTS	
SH14-1		Meters and gauges	
Type	Full-floating, single reduction, single speed with hypoid gears	Speedometer	Fuel gauge
Capacity	8,500kg	Odometer with 2 trip meters	Coolant Temperature Gauge
Ratio	5.125:1	Tachometer	Air pressure gauge (Front & Rear)
● PROPELLER SHAFT		Warning, pilot lamps and buzzers	
LF0932		Oil pressure warning lamp & buzzer	Charging warning lamp
Universal joints	Round bearing type	Air pressure warning lamp & buzzer	Beam indicator lamp
Centre Bearing	1-piece (Medium, Long) 2-piece (Xlong)	Engine over-run warning buzzer	Turn signal indicator lamp
● BRAKES		Brake fluid level warning lamp & buzzer	Parking brake indicator lamp
Type	Air over hydraulic, dual circuit with two leading shoes for front and rear acting on all wheels	Brake adjustment warning lamp & buzzer	Seat belt warning lamp and buzzer
Size - Front	400 x 120mm	Exhaust brake indicator lamp	Reverse warning buzzer
Size - Rear	400 x 155mm	Injection pump electrical warning lamp	Hazard warning lamp
Effective Lining Area	4,544 cm ²	Coolant level warning lamp & buzzer	
Air Dryer	Equipped	Switches	
Air Compressor	Single Cylinder water-cooled type	Lighting switch	Exhaust brake switch
Park Brake	Spring Brake acting on rear wheels	Wiper and washer switch	Hazard lamp switch
Exhaust Brake	Electric-pneumatic operation with butterfly type valve	Directional indicator and dimmer switch	
● STEERING		Others	
Type	Collapsible telescopic and tilt steering column and wheel with locking device. Recirculating ball with hydraulic booster, integral type	One-key starting-stopping	Horn button
Gear Ratio	19.05:1	Throttle control knob	
● FRONT SUSPENSION		● ELECTRICAL EQUIPMENT	
Type	Taper leaf springs with double acting shock absorbers	Type	24 volt, negative earth
Size	1,300 x 70mm	Batteries	12 V x 2, series connection
Leaves	18.5 mm x 1 + 19.8mm x 1 + 16.2mm x 1	Capacity:	65 Ah at 20-hour rate
● REAR SUSPENSION		Alternator	24V, 50A with built in rectifier & voltage regulator
HAS200		Headlamps	Semi-sealed beam, halogen type with integrated Fog lamps
Type	Two air bags with double acting shock absorbers	Other lamps	Clearance lamps, License plate lamp, Reversing lamp, Stop/Tail lamps, Roof Marker lamps, Internal Dome lamps.
● WHEEL & TYRE		12 volt electrical source	Equipped
Wheel type	8-stud disc wheel (JIS type)	● OPTIONAL EQUIPMENT	
Rim size	6.75 x 22.5 - offset 152mm	Engine Driven PTO	
Tyre size	255/70R22.5-140/137	ABS Braking System (available by irrevocable order only)	
Number of tyres	7 (including one spare tyre)		
Spare tyre carrier	Equipped		
Tool Kit	Includes wheel brace and hydraulic jack		
● FUEL TANK			
Capacity	200 litres		
Fuel pre-filter & sedimenter	Equipped with water separator		