



RANGER-PRO 14

MEDIUM ACE

• RATINGS (kg)

6x4 Truck Chassis

	GVM	GCM
Ratings	26,000	33,000

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

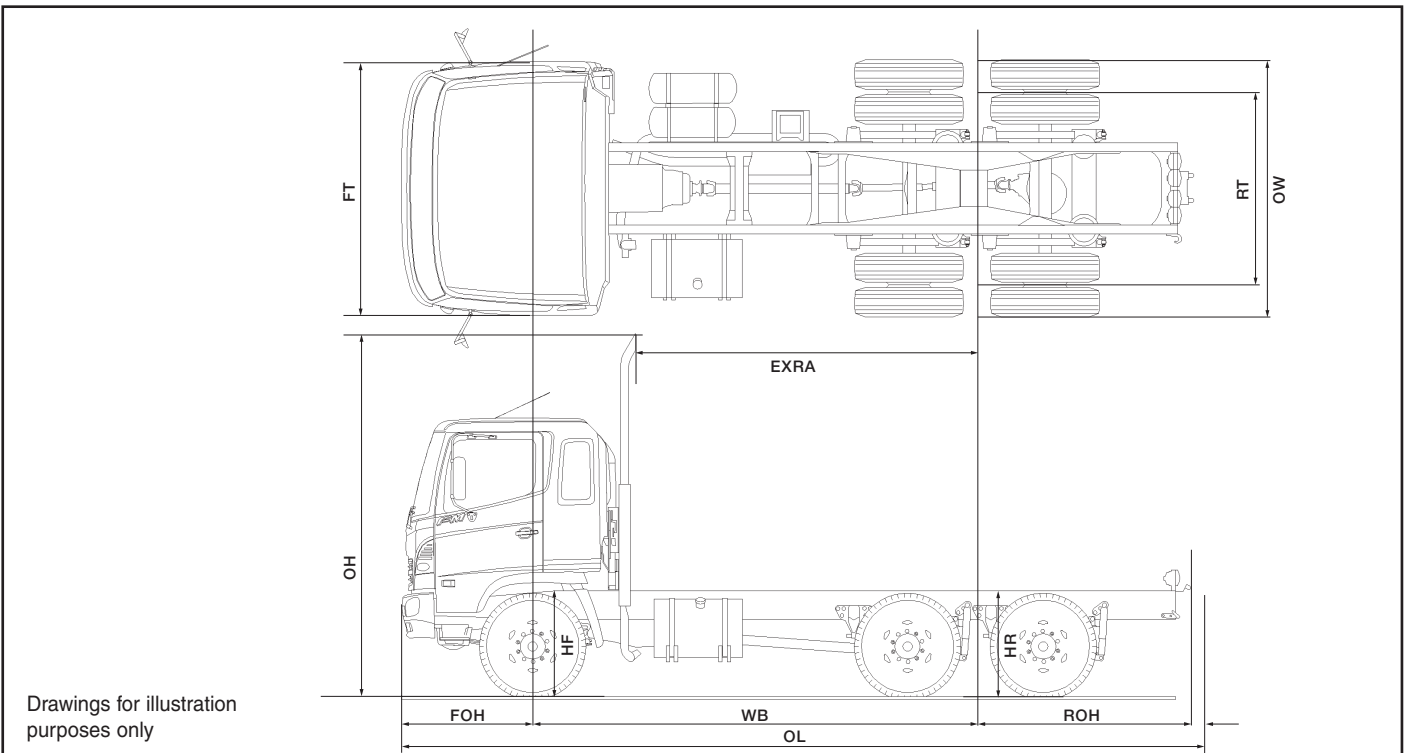
Model	Medium ACE	
Model Ordering Code	FM1JLPU	
Wheelbase	WB	4,240
Overall Length	OL	7,555
Overall Width	OW	2,445
Overall Height	OH	3,475
Cab Height		2,665
Exhaust to Rear Axle Centre	EXRA	3,305
Front Overhang	FOH	1,255
Rear Overhang	ROH	1,915
Front Chassis Height	HF	1,010
Rear Chassis Height	HR	1,030
Front Track	FT	1,915
Rear Track	RT	1,840
Road clearance (at diff. Case)		195
Turning Radius (kerb to kerb)		8,500
Turning Radius (Swept)		9,225

• **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	6,760
	Front	3,200
	Rear	3,560

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

Max. theoretical speed km/h	94
Gradeability (theoretical, tanθ)%	60



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• ENGINE		HINO JO8C-UK		• FUEL TANK	
Max. output (JIS Gross)	191kW at 2,500 rpm	Capacity	200 litres	Fuel pre-filter & sedimenter	Equipped with water separator
Max. torque (JIS Gross)	745 Nm at 1,500 rpm	• CHASSIS FRAME			
Max engine speed	2,900 rpm	Type	Parallel Chassis	Rear chassis width	870mm
Type	Diesel, turbo charged & inter-cooled, 6 cylinder in-line with 4 valves per cylinder and overhead camshaft. Mechanical Governor & speed limiter. Combustion by Timed Injection-rate Control System (TICS)	Size	298 x 90 x 7.0mm	Reinforcement	284 x 77 x 3.2mm
Bore and Stroke	114x 130mm	Tensile strength	540N/mm ² {55kgf/mm ² }	Hook	Equipped for front & rear
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-380		Side passengers 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	Cerametalllic	Windshield wipers	2-speed and intermittent control		
Facing outside diameter	380mm	Rear view mirrors	2 x West Coast type with spotter mirror on LHS		
• TRANSMISSION		Over-head console	Fitted for driver and passenger side		
Eaton RT-8908LL		Audio	AM/FM Radio with Cassette & CD Player		
Type	10 Forward & 3 Reverse speeds. Direct Drive with mechanical control. Consistant mesh 1st-10th	Air conditioner	Fitted as standard. Ventilation is forced type by electric blower through 13 outlets		
Gear Ratio	1st 19.577 8th 1.829 2nd 12.668 9th 1.344 3rd 8.390 10th 1.000 4th 6.229 Rev. 20.467 5th 4.578 Rev. 13.243 6th 3.404 Rev. 3.889 7th 2.464	Power Windows	Equipped		
• FRONT AXLE		Door Lock	Electric		
MF67 I		Front air spoiler	Equipped		
Type	Reversed Elliot 'I' section beam	Headlamp Adjustment	Electro-rheostat headlamp levelling adjustment		
Capacity	6,500kg	• INSTRUMENTS			
• REAR AXLE		Meters and gauges			
THD17-3 & SH17-6		Speedometer	Fuel gauge		
Type	Tandem axle, dual drive with inter axle differential lock, Full-floating, single reduction, single speed with hypoid gears	Odometer with 2 trip meters	Coolant temperature gauge		
Capacity	20,000kg	Tachometer	Air pressure gauge (Front & Rear)		
Ratio	5.857:1	Warning, pilot lamps and buzzers			
• PROPELLER SHAFT		Oil pressure warning lamp	Charging warning lamp		
HE 1160		Air pressure warning lamp & buzzer	Beam indicator lamp		
Universal joints	Round bearing type	Engine over-run warning buzzer	Turn signal indicator lamp		
• BRAKES		Brake fluid level warning lamp & buzzer	Parking brake indicator lamp		
Type	Full air, dual circuit, "S" cam system with leading & trailing shoes for front and rear acting on all wheels	Exhaust brake indicator lamp	Reverse warning buzzer		
Size - Front	406.4 x 152mm	Injection pump electrical warning lamp	Hazard warning lamp		
Size - Rear	406.4 x 216mm	Coolant level warning lamp & buzzer			
Effective Lining Area	7.884cm ²	Switches			
Air Dryer	Equipped	Lighting switch	Fog lamp switch		
Air Compressor	Dual Cylinder water cooled type	Wiper and washer switch	Exhaust brake switch		
Park Brake	Spring Brake acting on 1st and 2nd axles	Directional indicator and dimmer switch	Hazard lamp switch		
Exhaust Brake	Electric-pneumatic operation with butterfly type valve	Others			
• STEERING		One-key starting-stopping	Horn button		
Type	Collapsible telescopic and tilt steering column and wheel locking device. Recirculating ball with hydraulic booster integral type	Throttle control knob	Emergency stop control		
Gear Ratio	20.2:1	• ELECTRICAL EQUIPMENT			
• FRONT SUSPENSION		Type	24 volt, negative earth		
Taper leaf springs with double acting shock absorbers		Batteries	12 V x 2, series connection 120 Ah at 20-hour rate		
Size	1,470 x 80mm	Alternator	24V, 50A with built in rectifier & voltage regulator		
Leaves	19.5mm x 4	Headlamps	Semi-sealed beam, halogen type with integrated Fog lamps		
• REAR SUSPENSION		Other lamps	Clearance lamps, License plate lamp, Reversing lamp, Stop/Tail lamps, Roof Marker lamps, Internal Dome lamps (2)		
HAS400		12 volt electrical source	Equipped		
Type	Four air bags with shock absorbers and mechanical height control (dump valve)	• OPTIONAL EQUIPMENT			
• WHEEL & TYRE		Engine Driven Power Take Off			
Wheel type	10-stud disc wheel (ISO type)	ABS Braking System (available by irrevocable order only)			
Rim size	8.25 x 22.5 - offset 165mm				
Tyre size	11R 22.5				
Number of tyres	11 (including one spare tyre)				
Spare tyre carrier	Not Equipped				
Tool Kit	Includes wheel brace and hydraulic jack				