



UD TRUCKS

# UD1800



North America

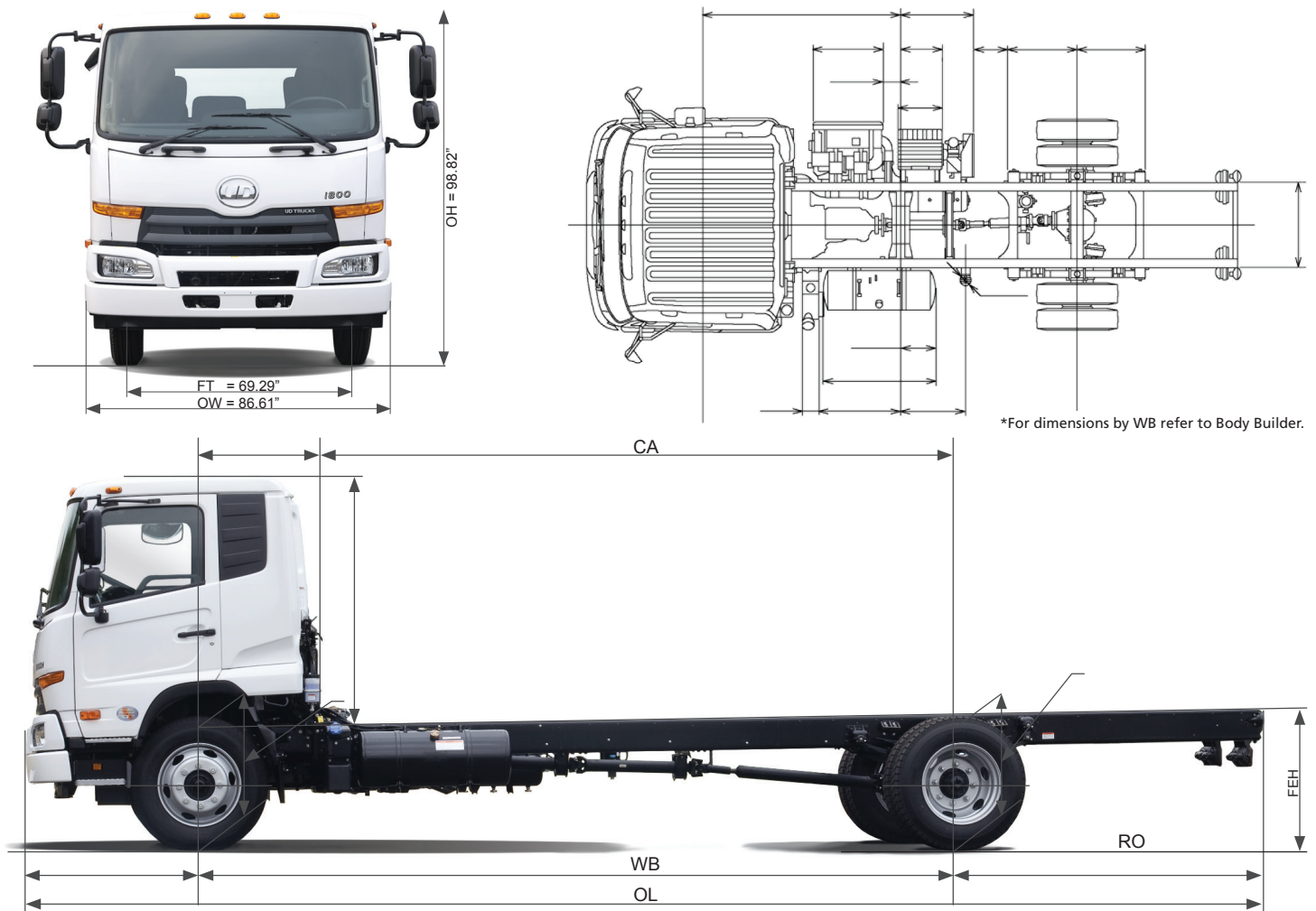
# UD1800

## STANDARD SPECIFICATION

MODEL		UD1800 E	UD1800 F	UD1800 H	UD1800 K	UD1800 N
<b>DIMENSIONS</b>		<b>Unit: in.</b>				
Wheelbase †	(WB)	148.43	166.54	178.35	190.16	216.54
Cab-to-Rear Axle	(CA)	111.57	129.69	141.50	153.31	179.69
Rear Overhang	(RO)	63.78	63.78	77.95	83.86	96.85
Overall Length	(OL)	259.65	277.76	303.74	321.46	360.83
Frame End Height	(FEH)	35.31	35.09	35.31	35.31	35.31
Typical Body Lengths ‡	(ft.)	14/16	16/18	18/20	20/22	22/24
<b>WEIGHTS</b>		<b>Unit: lb.</b>				
GVWR		17,995	17,995	17,995	17,995	17,995
Chassis Weight	Front	5,455	5,500	5,530	5,555	5,640
	Rear	2,500	2,535	2,555	2,590	2,655
	Total	7,955	8,035	8,085	8,145	8,295
Gross Payload *		10,040	9,960	9,910	9,850	9,700
<b>TURNING RADIUS</b>	<b>Unit: ft.</b>	19.4	21.7	23.0	24.3	27.6

\* Gross payload capacity equals GVWR minus chassis weight. Installation of specialized equipment or bodies may require frame reinforcement. † Wheelbase selection should be based on specific weight distribution. ‡ Typical body lengths assume water level load (no specific consideration for driver, passengers, or fuel) to maximize GVWR. Addition of ancillary equipment such as lift gates and refrigeration units not considered in calculations.

## UD1800 Specification Diagrams



# UD1800

<b>ENGINE</b>	GH7
	L6 OHC 24 Valves
	Turbo/Intercooled Diesel
	In-line 6 Cylinder, Direct-injection
Horsepower	245 hp @ 2,500 rpm
Torque	530 lb. ft. @ 1,400 rpm
Displacement	427 in. <sup>3</sup> (7.0 L)
Cylinder Liner	Dry, Replaceable
Air Compressor	12.4 CFM @ 2,600 Engine rpm (Nominal)
Fuel System	Electronically Controlled Common Rail System
Air Cleaner	11 in., Paper Filter Type (DONALDSON)
Cold Starting Aid Fan	Automatic Electric Air Preheater Viscous Type Drive
Battery Cold Crank Amps	565 amp (x2 = 1,130 amps) / 95D31R
Alternator	160 amp

<b>CHASSIS FRAME</b>	Ladder Type, Channel Section Side Rail	
Wheelbases	E, F, H, K	N
Dimensions (in.)*	9.21 x 2.76 x 0.28	9.21 x 3.15 x 0.28
Assembled Width (in.)	33.9	33.9
Section Modulus (in. <sup>3</sup> )	9.2	10.1
Yield Strength (psi)	51,200	51,200
RBM (in. - lb.)** Per Rail	468,500	517,000

\* Height x Flange Width x Thickness

\*\* Minimum across load platform

Refer to current Body Builder for additional details

<b>FRONT AXLE</b>	
GAWR	7,280 lb.
Axle Type	"I" Beam
Suspension	Semi-elliptic Leaf Springs
Shock Absorbers	Telescopic Type

<b>REAR AXLE</b>	
GAWR	13,660 lb.
Axle Type	Full-floating Banjo Housing
Suspension	Semi-elliptic Leaf Springs with Auxiliary Springs

TRANSMISSION	STANDARD			OPTION		
	MLS63B Manual, 6 Forward Speeds & 1 Reverse, Synchronesh on 2nd through 6th Gears			Allison 1000RDS Automatic 5 Forward Speeds & 1 Reverse		
Ratios						
1st		6.718			3.102	
2nd		4.031			1.811	
3rd		2.303			1.406	
4th		1.443			1.000	
5th		1.000			0.712	
6th		0.740				
Rev.		6.121			4.492	
R/A Ratio	3.90	4.11 Std	4.33	3.90	4.11 Std	4.33
Engine RPM @ 65 MPH	2,027	2,137	2,252	1,951	2,056	2,167
GCWR (lbs.)	29,000	29,000	29,000	26,000	26,000	26,000

<b>TIRES</b>	Front: Single, Highway Tread
	Rear: Dual, Highway Tread
	225/70R19.5 - 14PR (Tubeless Radial)
<b>WHEELS</b>	Steel Disc Type, 6 Hole, 19.5 x 6.75 in., Offset 5.35 in.

<b>CAB</b>	Forward Control, Steel Construction, Tilting Cab; Cab Suspension with Shock Absorbers
Air Conditioner	Standard
Cab Glass	Windshield, Tinted Laminated, 2,273 in. <sup>2</sup>
Cruise Control	Standard
Driver's Seat	Height & Seat Back Angle, Adjustable Lumbar w/Air Suspension, Cloth Cover, High Back Type
Passenger Seat	Seat Back Angle Adjustable, Cloth Cover, High Back
Keyless Entry	Standard
Power Windows & Door Locks	Standard
Seat Belts	Driver & Passenger, 3-Point ELR Type
Rearview Mirrors	West Coast Type, 14.2 x 7.3 in. Convex Type, 7.1 x 7.1 in. Passenger Side Down View Mirror, 7.1 x 11.8 in.
Steering Column	Tilt & Telescopic Type
Sun Visors	Driver & Passenger
Windshield Wipers	Intermittent & 2 Speed

<b>CLUTCH</b>	Hydraulic Clutch with Air Assist
	13.8 in. Cerametallic Friction Material
	Standard Clutch Wear Indicator

<b>STEERING</b>	Integral Power Steering, Gear Driven Pump
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## BRAKE SYSTEM

Service Brakes	Anti-lock Braking System Dual line, Air-Over-Hydraulic Brake System
Front	Internal Expanding, Two Leading Shoe, Self-Adjusting Drum Brakes Drum Diameter x Lining Width x Lining Thickness: 12.60 x 4.33 x 0.44 in.
Rear	Internal Expanding, Dual Two Leading Shoe, Self-Adjusting Drum Brakes Drum Diameter x Lining Width x Lining Thickness: 12.60 x 5.31 x 0.44 in.
Air Tanks	Supply: 641 in. <sup>3</sup> Front Service: 549 in. <sup>3</sup> Rear Service: 641 in. <sup>3</sup> Total: 1,831 in. <sup>3</sup>
Air Dryer	Standard
Rear Parking Brake	Standard at Rear Wheel

## EXHAUST BRAKE

Electrically Controlled,  
Pneumatically Activated  
Butterfly Valve in Exhaust Pipe

## FUEL TANK

Round Fuel Tank, Mounted to Left Side  
Capacity - 33 Gallons

## DEF TANK

(For SCR Urea Solution)  
Capacity - 5 Gallons

## ELECTRICAL EQUIPMENT

Back-up Lights  
Cigar Lighter  
Clearance, Identification & Position Lights  
Day-time Running Lights  
Halogen Headlights, 2 Lamps  
Interior and Map Light  
License Light  
Power Outlet - 12 Volt  
Side Turn Signal Lights  
Stop / Tail Lights

## INSTRUMENTS

Meters & Gauges	Air Pressure Gauges Coolant Temperature Gauge Fuel Gauge, DEF Gauge Speedometer, Odometer & Trip Meter Tachometer
Gauges in Multi Display	Ash Level Gauge Coolant Temperature Gauge Engine Oil Pressure Gauge Engine Oil Temperature Gauge Soot Level Gauge Voltmeter
Warning & Indicator Lights & Buzzers	ABS Warning Light Automatic Transmission: - Fluid Maintenance Warning Light - Range Inhibited Warning Light Brake Warning Light Coolant Level Warning Light & Buzzer Cruise Control "ON" & "SET" Indicator Lights DEF Low Level Warning Light Engine Air Heater Indicator Light Engine Control Warning Light Exhaust Brake Indicator Light High Beam Indicator Light High Exhaust Temperature Warning Light Low Air Pressure Warning Light & Buzzer Reverse Buzzer for Automatic Transmission

## INSTRUMENTS

(Continued)

Warning & Indicator Lights & Buzzers	Seat Belt Warning Light Soot Deposit Accumulation Warning Light Tilt Lock Warning Light & Buzzer Turn Signal & Hazard Indicator Light & Buzzer
Warning & Indicator Lights & Buzzers in Multi Display	Automatic Transmission: - Check Warning - Fluid Temperature Warning & Buzzer Charge Warning DEF Low Level Warning DEF Quality Warning DPF Maintenance Warning DPF Regeneration Indicator DPF Regeneration Inhibit Warning DPF System Warning & Buzzer Engine Communication Malfunction Warning Engine Derated Warning Engine Oil: - Low Level Warning & Buzzer - Pressure Warning & Buzzer - Temperature Warning & Buzzer Engine Overrun Warning & Buzzer Engine System Warning & Buzzer Idle Shutdown Warning & Buzzer Meter Communication Malfunction Warning Overheat Warning & Buzzer Starter Overheat Warning Transmission PTO Indicator Vehicle Electrical System: - Communication Malfunction Warning - Malfunction Warning
Other Functions in Multi Display	Automatic Transmission: - O/D OFF Indicator Light - Power Mode Indicator Light - Shift Position Indicator Light Calendar Diagnostics (for EMS, VECU, NICU) Hour Meter/ Trip Hour Meter Maintenance Inspection Odometer / Trip Meter Operation Control
Other Functions	Illumination Control

## OPTIONS

Factory	Locking Cap for DEF Tank Non Spin Differential Power Mirrors Power / Heated Mirrors Traction Tires
Port	50 Gallon Fuel Tank - Aluminum AM/FM Stereo Radio with CD Center Console / Third Seat
Dealer	Rear Engine PTO

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Manufacturer:  
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