

# UD2300DH

2009 Model Year



## WHEELBASES

|                               | D      | F      | H      | K      | N      |
|-------------------------------|--------|--------|--------|--------|--------|
| GVWR (lb.)                    | 23,000 | 23,000 | 23,000 | 23,000 | 23,000 |
| Chassis Weight (lb.)          | 8,035  | 8,100  | 8,165  | 8,245  | 8,445  |
| Front (lb.)                   | 5,245  | 5,270  | 5,335  | 5,400  | 5,490  |
| Rear (lb.)                    | 2,790  | 2,830  | 2,830  | 2,845  | 2,955  |
| Gross Payload (lb.)*          | 14,965 | 14,900 | 14,835 | 14,755 | 14,555 |
| Wheelbase (in.) ** WB         | 147.44 | 165.55 | 177.36 | 189.17 | 215.55 |
| Cab-to-Rear Axle (in.) CA     | 112.17 | 130.28 | 142.09 | 153.90 | 180.28 |
| Rear Overhang (in.) RO        | 63.78  | 63.78  | 77.95  | 83.86  | 96.85  |
| Overall Length (in.) OL       | 258.46 | 276.57 | 302.56 | 320.28 | 359.65 |
| Turning Radius (ft.)          | 22.00  | 24.30  | 25.90  | 27.20  | 30.80  |
| Typical Body Lengths (ft.)*** | 14     | 16/18  | 18/20  | 20/22  | 24/26  |

\*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.

## ENGINE

|                   |  |
|-------------------|--|
|                   | MD-230* 24 Valve<br>Turbo/Intercooled Diesel<br>In-line 6 cylinder, Direct-injection |
| Horsepower        | 230 hp @ 2,500 rpm   |
| Torque            | 506 lb. ft. @ 1,500 rpm  |
| Displacement      | 469 in. <sup>3</sup> (7.684 L)   |
| Cylinder Liner    | Dry, replaceable   |
| Air Compressor    | 14.1 CFM @ 2,600 engine rpm (nominal)  |
| Fuel System       | Electronically controlled common rail system   |
| Air Cleaner       | 11 in., paper filter type (DONALDSON)  |
| Cold Starting Aid | Automatic electric glow plug   |
| Fan               | Viscous type drive   |

\*MD-230 (J08E-UJ) is a vendor engine manufactured for Nissan Diesel Motor Company

## FRONT AXLE

|                     |                            |
|---------------------|----------------------------|
| GAWR                | 7,715 lb.                  |
| Rated Axle Capacity | 9,920 lb.                  |
| Axle Type           | "I" Beam                   |
| Suspension          | Semi-elliptic leaf springs |
| Shock Absorbers     | Telescopic type            |

## Transmission

**STD**  
Nissan Diesel, MLS63B  
Manual, 6 forward  
speeds & 1 reverse  
synchronesh on 2nd  
through 6th gears

**OPTION**  
Allison, 2200RDS  
Automatic  
5 forward  
speeds & 1  
reverse

## Ratios

|                     |         |       |         |        |
|---------------------|---------|-------|---------|--------|
| 1st                 | 6.72    |       | 3.10    |        |
| 2nd                 | 4.03    |       | 1.81    |        |
| 3rd                 | 2.30    |       | 1.41    |        |
| 4th                 | 1.44    |       | 1.00    |        |
| 5th                 | 1.00    |       | 0.71    |        |
| 6th                 | 0.74    |       | —       |        |
| Rev.                | 6.12    |       | 4.49    |        |
| R/A Ratio           | 4.88std | 5.29  | 4.88std | 5.29   |
| Engine rpm @ 65 mph | 2,130   | 2,310 | 2,050*  | 2,220* |

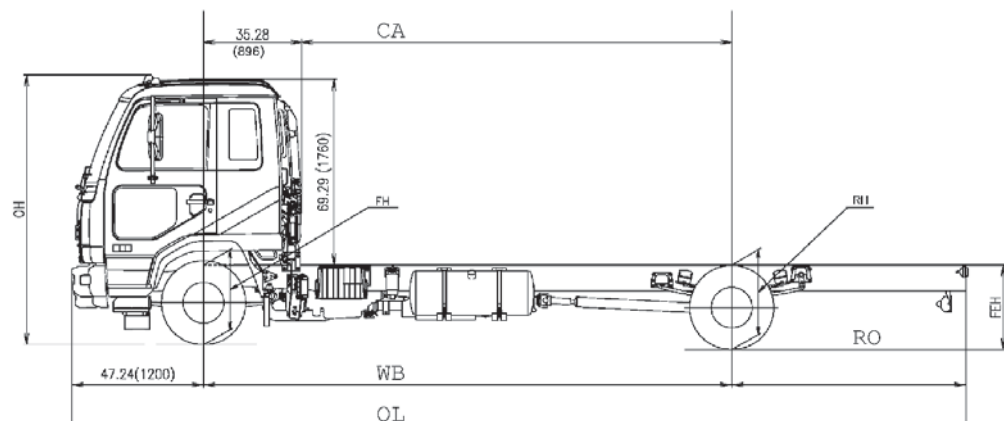
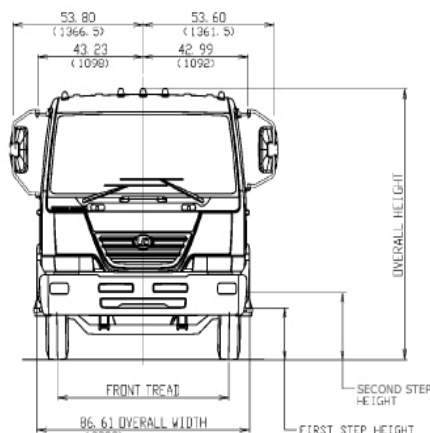
\*Approximate engine rpm only. Allison will provide a performance scan by application on request.

## CLUTCH

Hydraulic clutch with air assist  
13.8 in. cerametallic friction material  
Standard clutch wear indicator

## STEERING

Integral power steering, gear driven pump



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## REAR AXLE

|                     |   |
|---------------------|---|
| GAWR                | 16,535 lb.  |
| Rated Axle Capacity | 17,500 lb.  |
| Axle Type           | Full-floating banjo housing                       |
| Suspension Type     | Semi-elliptic leaf springs with auxiliary springs |

## WHEELS & TIRES

|        |   |
|--------|---|
| Tires  | Front: Single, highway tread<br>Rear: Dual, highway tread<br>9R22.5- 14PR (tubeless radial) |
| Wheels | Steel disc type, 8 hole,<br>22.5 x 6.75 in., offset 5.98 in.                                |

## BRAKE SYSTEM

|                |   |
|----------------|---|
| Service Brakes | Anti-lock Braking System<br>Dual line, air-over-hydraulic brake system  |
| Front          | Internal expanding, two leading shoe,<br>self-adjusting drum brakes<br>Drum diameter x lining width x lining<br>thickness: 14.57 x 3.94 x 0.51 in.      |
| Rear           | Internal expanding, dual two leading shoe,<br>self-adjusting drum brakes<br>Drum diameter x lining width x lining<br>thickness: 14.57 x 5.31 x 0.51 in. |
| Air Tanks      | Supply: 641 in. <sup>3</sup><br>Front service: 549 in. <sup>3</sup><br>Rear service: 641 in. <sup>3</sup><br>Total: 1,831 in. <sup>3</sup>              |
| Air Dryer      | Standard  |
| Parking Brake  | Hand brake lever activating drum at<br>rear of transmission   |

## EXHAUST BRAKE

Electrically controlled, pneumatically  
activated butterfly valve in exhaust pipe

## CHASSIS FRAME

Ladder type, channel section side rails

|  |                    |
|--|--------------------|
| Dimensions (in.)                       | 9.21 x 3.15 x 0.28 |
| Assembled Width (in.)                  | 33.86              |
| Section Modulus (in. <sup>3</sup> ) ** | 20.2               |
| Yield Strength (psi)                   | 51,200             |
| RBM (in.-lb.)                          | 1,034,000          |

\*Height x Flange Width x Thickness

\*\*Measured at back-of-cab, specifications based on complete chassis (both rails)

## FUEL TANK

Round fuel tank, mounted to left side  
Capacity - 50 gallons

## CAB

|                               |  |
|-------------------------------|--|
| Air Conditioner               | Standard   |
| Cab Glass                     | Windshield, tinted laminated, 2,314 in. <sup>2</sup>   |
| Cruise Control                | Standard   |
| Door Vent Window              | Driver, ventilating type   |
| Driver's Seat                 | Height & seat back angle adjustable w/air<br>suspension, cloth cover, high back type<br>Standard |
| Floormat                      | Standard   |
| Keyless Entry                 | Standard   |
| Passenger Seat                | Seat back angle adjustable. Cloth cover,<br>high back  |
| Power Windows<br>& Door Locks | Standard   |
| Seat Belts                    | Driver & passenger, 3-point ELR type   |
| Rearview Mirrors              | West coast type, 6.5 x 11 in. with Convex<br>type, 5.8 x 4.3 in.                                 |
| Steering Column               | Tilt & telescopic type   |
| Sun Visors                    | Driver & passenger   |
| Windshield Wipers             | Intermittent & 2 speed   |

## 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  
Side turn signal lights  
Stop/tail lights  
Turn signal/hazard lights  
Power outlet - 12 volt

## INSTRUMENTS

Meters & Gauges  
Air pressure gauges  
Coolant temperature gauge  
Fuel gauge  
Speedometer, odometer & trip meter  
Tachometer

## Warning & Indicator Lights & Buzzers

ABS warning light  
Alternator low charge warning light  
Automatic Transmission:  
- Check warning light  
- Range inhibited warning light  
- High temperature fluid warning  
light & buzzer  
Cab lock warning light & buzzer  
Engine control system warning light  
Engine glow plug indicator light  
Exhaust brake indicator light  
External air restriction indicator  
Hazard warning flasher  
High beam indicator light  
Low air pressure warning light & buzzer  
Low brake fluid level warning light  
& buzzer  
Low coolant level & overheating  
warning light & buzzer  
Low oil pressure warning light  
Parking brake indicator light  
Sedimentor warning light  
Service brake warning light & buzzer  
Turn signal indicator lights  
Warning lights with burnt-out bulb  
check function  
Backup alarm  
DPF warning/indicator lights

## OTHER OPTIONS

AM/FM stereo radio with CD  
Block heater  
Center console/third seat  
Heated mirrors  
Rear wheel parking brake  
Rear traction tires

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