

# UD1800CS

2007 MODEL YEAR



# TRUCKS

Distributed by

**Nissan Diesel America, Inc.**

## WHEELBASES

|                               | D      | F      | G      | H      | L      |
|-------------------------------|--------|--------|--------|--------|--------|
| GVWR (lb.)                    | 17,995 | 17,995 | 17,995 | 17,995 | 17,995 |
| Chassis Weight (lb.)          | 6,415  | 6,480  | 6,535  | 6,600  | 6,725  |
| Front (lb.)                   | 4,310  | 4,330  | 4,365  | 4,385  | 4,430  |
| Rear (lb.)                    | 2,105  | 2,150  | 2,170  | 2,215  | 2,295  |
| Gross Payload (lb.)*          | 11,580 | 11,515 | 11,460 | 11,395 | 11,270 |
| Wheelbase (in.)** WB          | 142.5  | 160.6  | 172.4  | 184.3  | 196.9  |
| Cab-to-Rear Axle (in.) CA     | 115.6  | 133.7  | 145.5  | 157.3  | 169.9  |
| Rear Overhang (in.) RO        | 59.8   | 69.7   | 74.0   | 79.9   | 88.6   |
| Overall Length (in.) OL       | 248.6  | 276.6  | 292.7  | 310.4  | 331.7  |
| Typical Body Lengths (ft.)*** | 14     | 16     | 18     | 20     | 22     |
| Turning Radius (ft.)          | 19.0   | 21.3   | 22.6   | 24.0   | 25.6   |

\*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.

## ENGINE

|                   |  |
|-------------------|--|
|                   | MD-175* 16 Valve                             |
|                   | Turbo/Intercooled Diesel                     |
|                   | In-line 4 cylinder, Direct-injection         |
| Horsepower        | 175 hp @ 2,700 rpm                           |
| Torque            | 347 lb. ft. @ 1,600 rpm                      |
| Displacement      | 289 in. <sup>3</sup> (4.728 L)               |
| Cylinder Liner    | Dry, replaceable                             |
| Air Compressor    | 14.1 CFM @ 3,000 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-175 (J05D-TA) is a vendor engine manufactured for Nissan Diesel Motor Company

## FRONT AXLE

|                     |                            |
|---------------------|----------------------------|
| GAWR                | 6,830 lb.                  |
| Rated Axle Capacity | 6,830 lb.                  |
| Axle Type           | "I" Beam                   |
| Suspension          | Semi-elliptic leaf springs |
| Shock Absorbers     | Telescopic type            |



## TRANSMISSION

### STD

Nissan Diesel, MHS62A  
Manual, 6 forward  
speeds & 1 reverse  
synchromesh on 2nd  
through 6th gears

### OPTION

Aisin A45043L  
Automatic, full  
electronic 4 speed  
overdrive with lockup  
& park lock

### Ratios

|                     |                     |       |
|---------------------|---------------------|-------|
| 1st                 | 6.31                | 3.02  |
| 2nd                 | 3.91                | 1.55  |
| 3rd                 | 2.26                | 1.00  |
| 4th                 | 1.39                | 0.70  |
| 5th                 | 1.00                | —     |
| 6th                 | 0.79                | —     |
| Rev.                | 5.87                | 2.68  |
| R/A Ratio           | 4.56 <sup>STD</sup> | 4.88  |
| Engine rpm @ 65 mph |                     |       |
| w/215/75R17.5       | 2,670               | 2,860 |
|                     |                     | 2,990 |

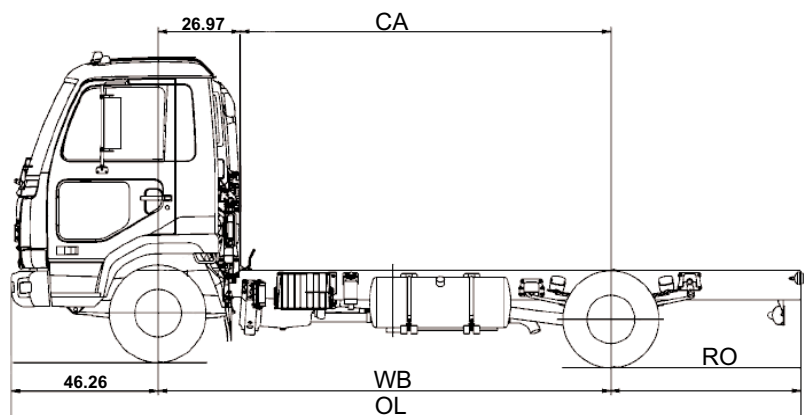
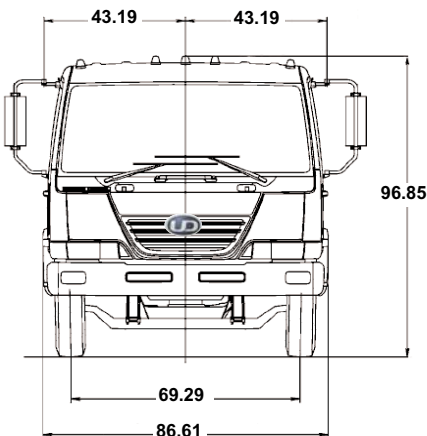
## CLUTCH

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

## STEERING

Steering Column

Integral power steering, gear driven pump  
Tilt & telescopic type



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## REAR AXLE

|                     |   |
|---------------------|---|
| GAWR                | 13,000 lb.  |
| Rated Axle Capacity | 14,330 lb.  |
| Axle Type           | Full-floating banjo housing                       |
| Suspension          | Semi-elliptic leaf springs with auxiliary springs |

## WHEELS & TIRES

|        |   |
|--------|---|
| Tires  | Front: Single, highway tread<br>Rear: Dual, traction type<br>215/75R17.5 - 14PR (tubeless radial) |
| Wheels | Steel disc type, 6 hole,<br>6.00 x 17.5 in., offset 5.3 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: 12.60 x 4.33 x 0.47 in.      |
| Rear           | Internal expanding, dual two leading shoe,<br>self-adjusting drum brakes<br>Drum diameter x lining width x lining<br>thickness: 12.60 x 5.31 x 0.47 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 2.76 x 0.28 |
| Assembled Width (in.)                  | 33.9               |
| Section Modulus (in. <sup>3</sup> ) ** | 18.3               |
| Yield Strength (psi)                   | 51,200             |
| RBM (in.-lb.)                          | 937,000            |

\*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 - 33 gallons

## CAB

|                   |  |
|-------------------|--|
| Air Conditioner   | Forward control, steel construction, tilting<br>cab. Cab suspension w/ shock absorbers<br>Standard |
| Cab Glass         | Windshield, tinted laminated, 2,314 in. <sup>2</sup>   |
| Cruise Control    | Standard   |
| Door Locks        | Driver & passenger, electric control   |
| Door Vent Window  | Driver, ventilating type   |
| Driver's Seat     | Height & seat back angle adjustable<br>Cloth cover, high back type                                 |
| Keyless Entry     | Standard   |
| Passenger Seat    | Seat back angle adjustable, cloth cover, high<br>back  |
| 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   |
| Windows           | Driver & passenger, electric control   |
| Windshield Wipers | Dual, electric-driven, 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

## 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  
- High temperature fluid warning light  
- Overdrive cancel indicator light  
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 warning light & buzzer  
Low oil pressure warning light  
Parking brake indicator light  
Sedimentor warning light  
Service brake warning light and buzzer  
Turn signal indicator lights  
Warning lights with burnt-out bulb  
check function  
Backup alarm

## OTHER OPTIONS

AM/FM stereo radio with CD  
Block heater  
Center console/third seat  
Driver's suspension seat

All illustrations, specifications and descriptions in this specification are based on the  
latest product information available at the time of this publication. The right is  
reserved to make changes in price, materials, equipment, design, specifications, dia-  
grams and models, and to discontinue models of equipment at any time, without  
notice and without incurring any obligation whatsoever. For more information on  
additional options and accessories, contact NISSAN DIESEL AMERICA, INC.

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