



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR

TRUCK, CAB & CHASSIS, 25,999 LBS. GVWR WITH ROLLBACK CARRIER

SERIES NO. 171-900

REV. 11/6/2024

EQUIPMENT SPECIFICATION 171-900D

GENERAL

This specification sets forth the minimum requirements for a TRUCK, CAB & CHASSIS, 25,999 LBS. GVWR WITH ROLLBACK CARRIER.

Equipment shall be new, a production model of current manufacture, and must meet all state and Federal safety and emission standards in effect at time of order.

REPRESENTATIVE SPECIFICATIONS

A Ford F-650 with a Jerr-Dan XLP 6-ton 22' carrier, both with appropriate options and standard features, was used to develop these specifications and establish equivalency evaluation criteria.

Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. For evaluation purposes, bidder's proposing an exception/equivalent option/feature to those specified herein, may be required to provide manufacturer/product information (catalogue sheets, detailed specifications, pictures, etc.). This information will be evaluated against the minimum requirements of this specification. Proposed submittals that are determined not to be equivalent to the established criteria will be rejected.

LOUISIANA AUTHORIZED DEALER(S)

Proposed item(s) must be from a manufacturer who has at least one (1) authorized dealer within the State of Louisiana where parts and service can be obtained. Authorized dealer(s) must have properly trained technicians plus all other resources necessary to perform warranty and repair services in complete accordance with the manufacturer's requirements. A letter certifying the ability to meet this requirement, inclusive of the company name(s) and address(es) of the Louisiana authorized dealer(s), should be supplied with the bid submittal and may be required prior to award.

DELIVERY & ACCEPTANCE

Vendor shall perform a test run of each unit to verify that all features and capabilities are operating properly at time of delivery. Documentation of testing may be required prior to acceptance by the Department.

Unit(s) must be delivered completely assembled (including all components, accessories, etc.) and ready for operation without any additional preparation including, but not limited to, ensuring all fluid levels are at their full mark, fuel tank(s) is full, all necessary lubrication has been performed, etc. A Louisiana safety inspection shall be performed on each vehicle prior to delivery and a Louisiana safety inspection sticker properly affixed.

Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Noted defects and/or nonconformance findings may



be corrected by the vendor. Corrections must be completed and approved by the Equipment Engineer or his representative prior to final acceptance.

Unit(s) shall be delivered "**on the ground**;" DOTD will not unload nor provide any unloading equipment to the vendor/delivery driver in order to offload the unit(s).

NOTE: The Department will have space available for equipment to be unloaded.

EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION:

1. Notarized Bill of Sale
2. Certificate of Origin (MSO)
3. Dealer's Service Policy
4. Owner's/Operator's Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
5. Service Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: PDF delivered via USB "Flash Drive", Flash Drive, or E-mail
6. Build Sheet(s) – as applicable
 - a. One (1) Hardcopy
 - b. Build sheets should be writing in plain language (not company specific codes) and include, at a minimum, all standard & optional features of the delivered unit.

NOTE: Invoices will not be processed for payment until the unit(s) have been inspected by the Equipment Engineer or their representative and deemed in compliance with the specifications.

BID SUBMITTALS

Any additions, deletions, or variations from the specifications should be noted in the "Bidder's Exceptions" page of this specification. Exceptions that are noted to be less than a minimum requirement will not be accepted.

Any additions, deletions or variations from the manufacturer's standard published specifications should be noted on the "Bidder's Exceptions" page of this specification. Unless otherwise noted, any items appearing in the manufacturer's standard published specifications furnished by the Bidder are assumed to be included in the Bidder's submittal.

Bidder should note on their submittal any installation(s) to the equipment that will be performed by the vendor instead of the manufacturer.

Failure to note any specification exceptions, manufacturer specification alterations, and/or vendor installations prior to award may result in rejection of the equipment at the time of delivery.

THE NUMBER OF DELIVERY DAYS AFTER RECEIPT OF ORDER (ARO) MAY BE USED AS A FACTOR IN THE AWARD.

EQUIPMENT SPECIFICATIONS

NOTICE TO BIDDERS

Bidder should review the detailed "Equipment Specification" completely and respond to the compliance question at the end of each section by marking "X", in the space provided, for "Yes" or "No". Mark "Yes" to indicate that the equipment bid meets the section exactly as specified. Mark "No" if there are exceptions to any part of that section. Exceptions/deviations to any part of the specification are to be detailed on the "Bidder's Exceptions" page of this specification.

IN ORDER TO BE CONSIDERED FOR AWARD, BIDDER SHOULD RETURN THIS SPECIFICATION, COMPLETED IN FULL, WITH THEIR BID SUBMITTAL.

Note: All Values listed below are minimums unless noted otherwise.

1. General Description

These specifications describe a cab & chassis, single axle truck with a rollback carrier.

2. Cab & Chassis

2.1. GVWR: 25,999 lbs.

Comply: Yes No

2.2. Frame

2.2.1. 1,000,000 RBM (Resisting Bending Moment) - Bidder should list section modulus and yield strength below

Section Modulus: _____ Yield Strength: _____

Comply: Yes No

2.3. Cab & Axle Positions

2.3.1. Cab to center of axle (CA): 144" clear

2.3.2. Center of axle to end of frame (AF): 36" min.*

*Truck vendor and carrier body manufacturer/upfitter shall coordinate in selecting the AF that works with the required cab to axle (CA) and body length and ensures proper load distribution to the front and rear axles in accordance with manufacturer specifications and industry practice. The required AF must be achieved with factory frame rails. Frame extensions to meet the required AF are not allowed.

Comply: Yes No

2.4. Front Bumper

2.4.1. Full width all-steel front bumper

2.4.2. Two (2) frame mounted tow hooks, one on each frame rail

Comply: Yes No

EQUIPMENT SPECIFICATIONS

2.5. Cab

- 2.5.1. Conventional day cab
- 2.5.2. Tinted safety glass
- 2.5.3. Cab entry handles, driver & passenger side
- 2.5.4. Outside mirrors, driver & passenger side
 - 2.5.4.1. Power adjustable
 - 2.5.4.2. 90 sq. in. minimum
 - 2.5.4.3. Heated with integrated turn signals
 - 2.5.4.4. Two (2) adjustable spot mirrors, one (1) per outside mirror
- 2.5.5. One (1) single trumpet air horn & one (1) standard electric horn
- 2.5.6. Air ride vinyl seats (driver & passenger), with floor mounted center console
- 2.5.7. Manufacturer's highest level sound insulation package
- 2.5.8. Gauge package including the following gauges:
 - 2.5.8.1. Coolant temperature
 - 2.5.8.2. DEF
 - 2.5.8.3. Fuel
 - 2.5.8.4. Oil pressure
 - 2.5.8.5. Air pressure
 - 2.5.8.6. Speedometer
 - 2.5.8.7. Tachometer
 - 2.5.8.8. Voltmeter
 - 2.5.8.9. Gear indicator
 - 2.5.8.10. Odometer
 - 2.5.8.11. Engine hours
 - 2.5.8.12. Trip odometer
 - 2.5.8.13. Auto transmission oil temperature
- 2.5.9. Dual sun visors
- 2.5.10. Two (2) cup holders
- 2.5.11. 3-point seat belt for each seat. If available, all seat belt webbing should be manufacturer's high visibility color (Orange, Red, Green, or Yellow).
- 2.5.12. Climate control, including air conditioning, heater, & defroster
- 2.5.13. Power windows & power door locks

Comply: ___ Yes ___ No

2.6. Engine

- 2.6.1. 6.7 L, electronic diesel, turbocharged, liquid cooled
- 2.6.2. 300 HP, 700 FT-LBS
- 2.6.3. Engine to include engine exhaust brake
- 2.6.4. Emission system must include DEF
 - 2.6.4.1. DEF tank to be located on driver's side next to fuel tank
 - 2.6.4.2. DEF tank must have a minimum capacity of 7 gallons
- 2.6.5. Engine must be biodiesel compatible

EQUIPMENT SPECIFICATIONS

2.6.6. Horizontal exhaust

Comply: ___ Yes ___ No

2.7. Fuel System

- 2.7.1. One (1) aluminum fuel tank with 50-gallon capacity
- 2.7.2. Fuel/Water separator - mounted to outside of frame
- 2.7.3. Entire fuel system must be biodiesel compatible

Comply: ___ Yes ___ No

2.8. Transmission

- 2.8.1. 6-Speed Automatic, with PTO provision
- 2.8.2. To be filled with manufacturer approved synthetic lubricants

Comply: ___ Yes ___ No

2.9. PTO

- 2.9.1. PTO must be activated by dash mounted factory upfitter switch
- 2.9.2. Indication of PTO engagement should be accomplished by lighted switch or separate dash mounted indicator light

Comply: ___ Yes ___ No

2.10. Front Axle

- 2.10.1. 8,500 lbs. GAWR @ ground capacity
- 2.10.2. Shock absorbers
- 2.10.3. Integral power steering
- 2.10.4. To be filled with manufacturer approved synthetic lubricants

Comply: ___ Yes ___ No

2.11. Rear Axle

- 2.11.1. 17,500 lbs. GAWR @ ground capacity
- 2.11.2. 19,000 lbs. capacity air ride suspension, with dump valve
- 2.11.3. Shock absorbers

Comply: ___ Yes ___ No

2.12. Brakes

- 2.12.1. Hydraulic, ABS brake system with traction control

Comply: ___ Yes ___ No

EQUIPMENT SPECIFICATIONS

2.13. Wheels & Tires

2.13.1. Hub piloted, aluminum, 6.75" x 19.5"

2.13.2. First line, first quality tires

2.13.2.1. Front – 265/70R19.5, single highway tread

2.13.2.2. Rear – 245/70R19.5, dual on/off road tread

2.13.3. Combined load ratings must to be compatible with axle ratings and GVWR

Comply: ___ Yes ___ No

2.14. Chassis Electrical System & Lights

2.14.1. 12-volt system

2.14.2. 240 amp alternator

2.14.3. Dual batteries with 1800 CCA combined

2.14.4. Remote jump start studs, with tethered protective caps

2.14.5. Battery disconnect switch, located inside cab, near driver's seat, similar to the below picture.



2.14.6. Four (4) dash mounted, rocker-style, factory installed, body circuit switches (upfitter switches) for simple on/off functions for accessories (PTO, warning lights, etc.; one (1) assigned to activate the PTO; one (1) assigned to operate the flashing warning lights; one (1) assigned to operate work lights, and one (1) blank to be assigned by DOTD personnel.

2.14.7. Headlights:

2.14.7.1. Automatic daytime running lights

2.14.7.2. Automatic on with low ambient light levels

2.14.7.3. Warning buzzer/alarm when headlight switch is on and ignition switch is in off position

2.14.8. Roof mounted clearance marker lights

2.14.9. Cruise control

2.14.10. Intermittent windshield wipers with washers

2.14.11. Self-cancelling directional signals

2.14.12. Backup alarm, 97 dba

2.14.13. AM/FM radio with auxiliary front input, Bluetooth/hands free function and steering wheel controls

2.14.14. 110V power outlet

2.14.15. Two (2) 12V accessory power outlets with covers, mounted in dash (for cell phone chargers, GPS devices, etc.). One (1) 12V power outlet and one (1) USB charging outlet will also satisfy this requirement.

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Comply: Yes No

2.15. Paint

2.15.1. Cab: Manufacturer's standard, white

2.15.2. Chassis: Manufacturer's standard, black

Comply: Yes No

2.16. FMCSA/DOT Mandated Safety Items

2.16.1. One (1) UL listed, 5 B:C rated, or higher, fire extinguisher securely mounted in cab

2.16.2. One (1) set of three (3) bidirectional reflective triangles conforming to FMVSS No. 125

2.16.3. At least one (1) spare fuse for each type/size used in the truck

Comply: Yes No

3. Rollback Carrier Body

3.1. Deck & Sub Frame

3.1.1. 102" x 22' aluminum deck

3.1.2. 12,000 lbs. capacity

3.1.3. Tubular steel headboard, FMCSA DOT 393.106 compliant

3.1.4. Twelve (12) key-slots

3.1.5. 5" high removable blade rails

3.1.6. Galvanized steel main beams

3.1.7. Galvanized sub frame, designed to accept independent raise/lower wheel lift tow bar

3.1.8. Hose & wiring track system

3.1.9. Body to be equipped with mechanical hold-downs with replaceable hold-down blocks to prevent wear on deck beams

3.1.10. A mechanical lock-out on tilt function to prevent tilting of deck when in the area of the hold-down

3.1.11. Winch

3.1.11.1. 10,000 lbs. line pull

3.1.11.2. Worm gear

3.1.11.3. Air activated free spool

3.1.11.4. $\frac{7}{16}$ in. x 56 ft. EIPS galvanized wire rope

Comply: Yes No

3.2. Wheel Lift

3.2.1. 3,500 lbs. capacity with independent raise/lower functions

3.2.2. Hydraulic wheel lift grids

3.2.3. Integral receiver hitch

EQUIPMENT SPECIFICATIONS

3.2.4. Rear dock stabilizer

Comply: ___ Yes ___ No

3.3. Body Controls

3.3.1. Dual controls with lighted control panels and operating pictographs at control stations

3.3.2. 5-function wireless remote control

Comply: ___ Yes ___ No

3.4. Hydraulic System

3.4.1. 9 GPM hydraulic gear type pump rated at 1,900 PSI

3.4.2. Oil Reservoir

3.4.2.1. Must have a 12 gallon minimum capacity

3.4.2.2. Anti-splash baffle

3.4.2.3. 100 mesh screen in filler cap

3.4.2.4. 40 mesh screen in the tank outlet

3.4.2.5. Access hole for tank clean out

3.4.2.6. Located in a protected area to prevent damage

3.4.2.7. 10 micron return line filter complete with bypass valve to prevent restricted flow

3.4.2.8. Hydraulic counterbalance valve on tilt and independent raise/lower functions to prevent cylinder cavitation to control load

Comply: ___ Yes ___ No

3.5. Warning & Work Lights

3.5.1. Warning lights shall be installed by an upfitter who is experienced in and regularly engages in the installation of automotive electronics & warning lights. Installer shall use vehicle & lighting manufacturers' guidance along with industry best practices and techniques to ensure that lights are installed in a safe and neat manner

3.5.2. All wiring and cables should be logically routed, secured, and protected with convoluted loom where possible. Rubber grommets shall be used where wires and cables penetrate any cab panels, body panels, or chassis structure. All cab and body penetrations shall be adequately sealed to prevent water from entering.

3.5.3. All warning lights must be controlled by a single in-cab, dash-mounted upfitter switch. The switch must be labeled to read "Warning Lights".

3.5.4. Installer must contact the DOTD Equipment Section prior to programming to confirm intended flash pattern(s).

3.5.5. Full size light bar

3.5.5.1. One (1), mounted to the headboard as shown below

3.5.5.2. SoundOff Signal nRoads full size 60" or equal

3.5.5.2.1. Length is nominal and +/- 1" is acceptable.

3.5.5.3. 6-8 inboard modules, dual color, 12 diodes per module (green & amber)

3.5.5.4. 4 corner modules, dual color, 18 diodes per module (green & amber)

3.5.5.5. All modules shall be capable of fully displaying both colors.

3.5.5.6. Flash pattern must be capable of alternating between an asymmetric, low frequency, "wig-wag" pattern and a low-frequency double or quad flash.

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- 3.5.5.7. UV resistant clear polycarbonate lens
- 3.5.5.8. 10-16 VDC
- 3.5.5.9. Programmable via Windows PC software
- 3.5.5.10. Capable of dimming automatically via photo-sensor
- 3.5.5.11. Light bar can have either hardwiring or breakout box control
- 3.5.5.12. Light bar shall meet all applicable federal/state laws and regulations
- 3.5.5.13. Shall be SAE J845 360-degree Class 1 certified
- 3.5.6. Perimeter Lights – Six (6) perimeter lights that satisfy the following requirements
 - 3.5.6.1. Two (2) front mounted at grille level, as shown below
 - 3.5.6.2. Two (2) mounted on bed rub rails, one on each side, as shown below
 - 3.5.6.3. Two (2) rear mounted near the stop/tail/turn lights, as shown below
 - 3.5.6.4. Brooking Industries XT12D (or ST6D) perimeter lighthouse or equal
 - 3.5.6.5. Length: 4.25-5.25 in., Width: 1.0-2.0 in., Height: 0.3-0.4 inches
 - 3.5.6.6. 12-24 VDC
 - 3.5.6.7. UV resistant clear polycarbonate lens
 - 3.5.6.8. 12 diodes - dual color - (equal number of green & amber)
 - 3.5.6.9. Lighthouse must be capable of displaying each color across full length.
 - 3.5.6.10. Must be capable of alternating between an asymmetric, low frequency, “wig-wag” pattern and a low-frequency double or quad flash.
 - 3.5.6.11. Lighthouse must meet all applicable federal/state laws and regulations
 - 3.5.6.12. Shall be SAE J595 Class 1 certified
- 3.5.7. Jerr-Dan RAIL (Rear awareness indicator lights), or equal
- 3.5.8. Four (4) adjustable LED work lights
 - 3.5.8.1. Two (2) mounted in the wheel lift tow bar area as shown below
 - 3.5.8.2. Two (2) mounted on the header board as shown below

Comply: Yes No

3.6. High Visibility Conspicuity Tape

- 3.6.1. DOT C2 approved high visibility reflective conspicuity tape, 2” wide, with alternating 6” segments of red and white, shall be placed along each side of the carrier bed as shown below.

Comply: Yes No

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3.7. Accessories

3.7.1. Back up camera with rearview mirror/monitor

3.7.2. Two (2) 60" lockable underbody tool boxes, one (1) on each side

3.7.2.1. Door activated interior lights

3.7.3. Two (2) folding 3-step ladders mounted to the underside of the bed, one (1) on each side



3.7.4. Two (2) grab bars mounted to the headboard, one (1) on each side

3.7.5. Two (2) 6' hook-up chains

3.7.6. Two (2) 10' safety chains

3.7.7. Two (2) 4' chains with "J" hooks

3.7.8. Two (2) wheel tie-down straps

3.7.9. Four (4) tie-down straps with key slot mounted detachable ratchets

Comply: ___ Yes ___ No

