



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR

UNDER-TAILGATE CROSS CONVEYOR SPREADER, w/SELF-CONTAINED POWER PACK

SERIES NO. 221-800

REV. 3/28/2022

EQUIPMENT SPECIFICATION 221-800E

GENERAL

This specification sets forth the minimum requirements for a cross-conveyor spreader/berming machine, which can be mounted below the tailgate of a class 6 or larger dump truck. The spreader/berming machine shall be hydraulically driven and capable of discharging material to either end of the machine.

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 Concord Road Equipment CRE-960-18, 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, bidders 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.

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.

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 an open bed truck or trailer. DOTD will not unload from an enclosed van body truck or trailer.

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

EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION:

1. Dealer's Service Policy

2. Owner's/Operator's Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: CD, DVD, Flash Drive, or E-mail
3. Service Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: CD, DVD, Flash Drive, or E-mail
4. 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. Design, Construction, and Features

1.1. Power Source

- 1.1.1. Self-contained hydraulic power pack with a small gasoline engine, direct mount hydraulic pump, reservoir, and flow-control valve
- 1.1.2. Gasoline engine must have electric start
- 1.1.3. Power pack must be mounted to a removable platform

Comply: ___ Yes ___ No

1.2. Conveyor Drive System

- 1.2.1. The conveyor should be driven by a roller/stator type hydraulic motor
- 1.2.2. The conveyor drive roller shall be coupled to the motor via chain and sprocket system
- 1.2.3. All drive components, i.e. sprockets, chains, etc., shall be completely shielded by a removable cover
 - 1.2.3.1. Conveyor drive shall not be accessed without removal of drive cover
- 1.2.4. All conveyor rollers shall be held in place by external flange-type bearings. Each flange bearing shall have a grease fitting. **NOTE:** Bearings built into the hub of conveyor rollers are not acceptable.

Comply: ___ Yes ___ No

1.3. Conveyor Feed

- 1.3.1. A manually operated hydraulic flow control valve shall be located on the hydraulic power pack to allow conveyor belt speed adjustment
- 1.3.2. The conveyor belt shall be capable of reversing in direction
 - 1.3.2.1. Reversing should be accomplished by swapping the two motor hoses at their connection with the under-hopper junction via quick disconnect couplers or via manual reversing control valve
- 1.3.3. The drive motor hoses and the flow control-valve hoses shall connect at an easily accessed junction point below the lower center of the hopper. Quick disconnect couplers shall be installed on the junction end of the motor hoses.

Comply: ___ Yes ___ No

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1.4. Conveyor Belt

1.4.1. 3/8" thick x 14-18" wide

1.4.1.1. Shall be cable of handling aggregate and granular material

1.4.1.2. Shall be capable of withstanding high temperatures, i.e. hot asphalt

1.4.2. All external flange bearing units and conveyor shaft ends shall be covered by a removable shield

Comply: ___ Yes ___ No

1.5. Conveyor Sealing Skirt

1.5.1. Skirt shall be attached directly to upper front flange of material hopper.

1.5.2. Skirt shall be attached in such a way that as dump body angle increases the sealing skirt obtains a tighter seal against dump-body spreader apron.

Comply: ___ Yes ___ No

1.6. Material Hopper, Chute & Discharge Doors

1.6.1. Machine must include a material chute that is capable of being installed at either end of berming machine

1.6.2. Material chute shall rotate under material hopper or flip up for transport

1.6.3. The material chute shall be constructed of 3/16" steel, 24" long X 20" wide with 4" sides

1.6.4. The material hopper shall be provided with discharge doors at both ends of the machine

1.6.5. The doors shall be of the top hinge design and lockable in both the closed or open position

1.6.6. The discharge doors shall be furnished with a rubber sealing skirt.

Comply: ___ Yes ___ No

1.7. Material Hopper Dimensions

1.7.1. 98" Hopper length, with chute stowed

1.7.2. 26.5" overall width

1.7.3. 18.75" Hopper width, inside dimensions

1.7.4. 19" overall height (not including chute)

1.7.5. 7" back guard height

Comply: ___ Yes ___ No

1.8. Leg & Winch Group

1.8.1. One (1) pair of fold up legs

1.8.2. One (1) set of cable winches

1.8.3. One (1) set of chain brackets

1.8.4. The leg and winch group shall allow user to change berming machine from one vehicle to another without the use of tools or lifting equipment

1.8.5. Cable winches should have a minimum capacity of 2500 lbs. each

1.8.5.1. Worm gear type

1.8.5.2. Winch cables should be 3/8" in diameter wire rope with 3/8" grab hooks at the end of each cable.

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1.8.6. There shall be two (2) chain brackets that mount in place of the standard slide arm

1.8.6.1. Chains should have 3/8" diameter links

Comply: ___ Yes ___ No

1.9. Lights

1.9.1. LED stop-tail-turn and 3-light LED cluster recessed into rear bearing cover of berming machine and shall include a 4-wire pigtail for connection to chassis trailer lighting receptacle

Comply: ___ Yes ___ No

1.10. Paint

1.10.1. The unit is to be prepared for painting as per paint manufacturer's directions

1.10.2. Must have at least one coat of sealer/primer and two finish coats of enamel paint

1.10.3. Unit is to be machine manufacturer's standard color

Comply: ___ Yes ___ No

BIDDER'S EXCEPTIONS

Instructions: Bidder should note all exceptions in space provided below. List the detail number from the aforementioned specification in the column to the left and the exception in the column to the right. Responses may be typed or hand-written. Handwritten responses must be legible. If additional space is needed, please print a duplicate copy of this sheet. "Bidder's Exceptions" page(s) should be returned with the bid submittal.

Examples:

1.6	Engine has 325 horsepower
1.18.3	Batteries have 2000 CCA combined.
2.2.8	Crossmembers are 4" channel on 12" centers.

**Spec./Detail
Reference**

Exception
