



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR

SELF PROPELLED FOUR WHEELED CHIPSPREADER

SERIES NO. 221-800

REV. 2/26/2025

EQUIPMENT SPECIFICATION 221-800H

GENERAL

This specification sets forth the minimum requirements for a hydrostatically driven wheeled chip spreader.

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 Rosco CSV Chip spreader, 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.

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.

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 AT TIME OF DELIVERY:

1. Notarized Bill of Sale
2. Original Certificate of Origin (MSO), (no photocopy)
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”, or E-mail
6. Build Sheet(s) – as applicable
 - a. One (1) Hardcopy
 - b. Build sheets should be written 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. Engine

- 1.1. 275 HP, turbocharged diesel
- 1.2. 12 volt electric start system
- 1.3. Dual 12 volt batteries
- 1.4. Dry type air cleaner
- 1.5. Electrical variable controlled engine throttle
- 1.6. Heavy-Duty cooling system
- 1.7. High coolant temperature and low oil pressure warning system
- 1.8. Fuel capacity 65 gallons
- 1.9. Engine to meet all Federal and State Emissions standards in effect at the time of delivery

Comply: ____ Yes ____ No

2. Hydrostatic Pump Drive

- 2.1. Single electric controlled variable displacement pump
- 2.2. Front wheel drive
- 2.3. Hydraulic pump has pressure compensating pump for auxiliary systems
- 2.4. 75 gallon hydraulic reservoir
- 2.5. Auxiliary pump system
 - 2.5.1. Operate gate cylinder, hopper extension, augers, conveyors and spread roll on aggregate hopper

Comply: ____ Yes ____ No

3. Front axle

- 3.1. 52,000 lbs. capacity
- 3.2. Full oscillating axle
- 3.3. 75" front track width
- 3.4. Drive shaft axle connection between axle and hydraulic drive motor

Comply: ____ Yes ____ No

EQUIPMENT SPECIFICATIONS

4. Rear Axle

- 4.1. 81" rear track width
- 4.2. Axle weight rating 22,000 lbs. minimum
- 4.3. 16.5" Diameter, 7" wide brakes with manual slack adjusters
- 4.4. Drum type, spring applied, hydraulic release

Comply: ____Yes ____No

5. Brakes

- 5.1. Hydraulic wet disc type
- 5.2. Rear axle to have hydraulic actuated, spring applied and hydraulic release
- 5.3. Parking brake

Comply: ____Yes ____No

6. Steering

- 6.1. Power steering
- 6.2. Independent of drive system

Comply: ____Yes ____No

7. Instrumentation

- 7.1. Plus+1 CAN Bus control and onboard diagnostic system
- 7.2. Color graphic display
- 7.3. Gauges to include: Engine water temperature, engine oil pressure, tachometer, fuel gauge, DEF fluid, voltmeter, hydraulic temperature, hour meter and voltmeter

Comply: ____Yes ____No

8. Control Functions

- 8.1. Hydrostatic control system
- 8.2. Manual mode with variable forward/reverse spread of unit
- 8.3. Speed: 20 MPH high range
- 8.4. Application control
 - 8.4.1. Computer monitors speed of spreader, varies gate opening for application rate
 - 8.4.2. Plus+1 CAN Bus system with auto rate control for spreader speed
 - 8.4.3. Programmable application rate
 - 8.4.4. Includes rock size, type, chipping width, feet per minute and totals
 - 8.4.5. Ability to access memory setting service screens, system faults, engine faults, machine settings, calibration settings

Comply: ____Yes ____No

EQUIPMENT SPECIFICATIONS

9. Fan Drive System

- 9.1. Pump to provide optimal flow to the fan drive and steering circuit
- 9.2. 1,325 psi orbital steering

Comply: ____Yes ____No

10. Conveyors

- 10.1. Two independently operated aggregate feed conveyors
- 10.2. Adjustable tail pulleys with pillow block style bearings with grease zerks
- 10.3. Auto and manual system controlled from touchpad system integrated with Plus+1 system
- 10.4. Sonic sensors when in auto mode
- 10.5. 20" Belt width

Comply: ____Yes ____No

11. Spread Hopper

- 11.1. Two sections independently operated with variable spread width
- 11.2. Hopper width to be a 0 – 16'
- 11.3. Hydraulic spread rolls
- 11.4. Spread roll and vibrator
- 11.5. Spread hopper to include 12" diameter aggregate distribution augers with automatic controls
- 11.6. Spread Hopper to include full length rejection screen with 1" maximum opening

Comply: ____Yes ____No

12. Receiving Hopper

- 12.1. Two independent manual flow control gates easily accessible from operators station for conveyors
- 12.2. Operator controlled folding hopper wings
- 12.3. Skirting in receiving hopper to minimize spillage
- 12.4. 3.5 CY stuck capacity
- 12.5. Receiving width 11'10" maximum
- 12.6. Capacity to be approximately 4 cubic yards

Comply: ____Yes ____No

13. Truck Hitch

- 13.1. Electric over hydraulically adjustable
- 13.2. Electronically controlled at driver's station
- 13.3. Electronic over hydraulic released locking mechanism
- 13.4. Spring Loaded, hydraulically adjustable with hydraulic release

Comply: ____Yes ____No

EQUIPMENT SPECIFICATIONS

14. Driver Seat and Control Console

- 14.1.** One full console on left side, 15" slide out platform for optional field of view
- 14.2.** Right hand remote operator control
- 14.3.** Appropriate foot brake control
- 14.4.** Parking brake electronically controlled on main control console
- 14.5.** Access to engine and hydraulic components accessible from operators deck
- 14.6.** Cushioned and adjustable seat
- 14.7.** Control switches for the working lights, turn/hazard signals and beacon

Comply: ____Yes ____No

15. Miscellaneous

- 15.1.** Light package to be installed including headlights, stop and tail lights, turn signals with flasher switch, white strobe lights, LED work lights
- 15.2.** Electric horn with horn button control at drivers console
- 15.3.** Backup alarm
- 15.4.** Full length catwalk with skid resistant surface on right side of conveyor system
- 15.5.** Steel lockable tool box

Comply: ____Yes ____No

16. Paint

- 16.1.** Paint to be manufacturers standard

Comply: ____Yes ____No

