

STATE OF LOUISIANA

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT TECHNICAL SPECIFICATIONS FOR

**BOX STYLE GRAPPLE, EXCAVATOR MOUNTED REV. 9/25/2024**

**GENERAL**

This specification sets forth the minimum requirements for a box style grapple, which can be mounted on a Volvo EWR130 excavator.

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

**REPRESENTATIVE SPECIFICATIONS**

A Werk‐Brau part number WBBG42.05, 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)
   1. One (1) Hardcopy
   2. One (1) Digital Copy
      1. Acceptable Formats: PDF delivered via USB “Flash Drive”, or E‐mail

**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.

# 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. Grapple shall be a wide mouth box style design
   2. Dual grapple design
   3. Grapple attachment maximum weight of 2500 lb.
   4. Grapple attachment constructed of T‐1 steel in all critical or high wear components
   5. Grapple attachment shall use high strength steel throughout the weldment
   6. Grapple attachment shall use hardened greasable bushings in all pivot points
      1. Design shall allow easy access to grease the bushings
   7. Tine Box Grapple with 3 tines on one side and 2 tines on the opposite side
      1. Edge pads on each tine
   8. Operated by bucket cylinder of the excavator
   9. Grapple shall be 42 inch wide lower tines**,** 25 inch wide upper tines, and 86 inch jaw opening

**Comply:**  **Yes**  **No**

* 1. Paint: Manufacturer’s standard color; prepared as per the manufacturer’s standard procedures.

**Comply:** **Yes** **No**

# BIDDERS 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**