

**OFFICE OF MANAGEMENT & ENTERPRISE SERVICES
EXHIBIT 2**

SNOW PLOW BLADE SAVER

GENERAL:

Snow Plow Blade Saver shall be an engineered system comprised of abrasion resistant steel cover integrated on a carbide insert blade with $\frac{3}{4}$ inch tall full radius tungsten carbide inserts, and heavy duty filled wear bars, securely welded on the back of each blade to form a single engineered blade assembly. The blade system also shall include two (2) PlowGuard MAXX™ that have heavy duty Winter Carbide Matrix® inside, all mounting hardware (with thread locking fasteners), and installation instructions. All components are crated together in a palletized package. The blades shall be usable on any road surface and approved for high speeds. This debris recovery system must be the latest current model complete with manufacturer's standard equipment, accessories and warranty for model bid. This equipment must be complete, serviced and ready for operation at the time of delivery.

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

EXAMPLE MODEL: Raxor XL

VENDOR'S PROPOSED: MAKE: _____ MODEL: _____

MINIMUM REQUIREMENTS

VENDOR'S PROPOSED

WEAR LIFE:

Product shall be guaranteed to last a minimum of three times (3X) longer than a standard carbide insert plow blade and cover (standard blade defined as a 5/8" tall 25 degree trapezoid, tungsten carbide insert blade and hardened 5/8" x 6" cover blade).

MAIN BLADE:

The blade shall be high strength structural grade hot rolled flat steel.

Dimensions: 7" high x 3/4" thick x 3' or 4' length

Tolerance between hole spacing is +/- 1/16", non-accumulative, from center to center across full length of blade.

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The groove for the carbide inserts shall be milled in the center of the blade edge.

Hole size and location of holes shall be per customer's requirements.

TUNGSTEN CARBIDE INSERTS:

The tungsten carbide insert shall comprise the following total dimensions:

- a. Length: 1" nominal
- b. Width: 0.36" min.
- c. Height: 0.75" max.
- d. Shape: Hammerhead (full radius)

Tungsten carbide insert shall be of a grade containing approximately 89% tungsten and approximately 11% cobalt binder by weight.

Original compounding specific gravity equal to 14.35-14.6

The insert hardness shall be 87.5-88.8 Rockwell A scale

Transverse rupture strength of 351,000 PSI minimum.

BRAZING:

Each blade shall contain an approximate 1" length of carbide inserts for each 1" length of blade.

The carbide inserts shall be placed in line within the center-milled groove.

The carbide inserts shall be brazed on all sides using sound brazing practice, having no evidence of voids, shims, or fillers providing approximately 70,000 PSI shear strength.

STEEL COVER BLADE:

Cover blade shall be heat-treated abrasion resistant steel.

Dimensions: 5/8" thick x 4" High.

Cover blade will have an approximate hardness of 44-52 Rockwell C.

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Cover blade must include wear indicator notches for blade change notification.

Cover blade must include interlocking tabs for added rigidity.

CAST WEAR BARS:

High impact Grade A-22 steel casting.

Wear bars will have a cavity of Winter Carbide Matrix® to be 7/8" min. in height for the full length of the casting.

Winter Carbide Matrix® must be fused to impact bar.

Each wear bar must contain a minimum of 10.00 in³ of Winter Carbide Matrix®.

ASSEMBLY WELDING:

Each carbide insert blade has a cover blade welded to the front surface of the main carbide blade. This weld will provide adequate strength to retain the cover blade and interlock while in service.

A 3' blade section will have two (2) wear bars and the 4' section will have three (3) wear bars securely welded onto the blade. This weld will provide adequate strength to retain the moldboard shoes while in service.

GUARDS:

Guards shall be high impact, A-22 steel castings.

Shall have three separate pockets to be fully filled with a minimum of 11.20 in³ of weld.

Weld profile must be parallel and flush (plus/minus 1/32") to blade surface of guard and must be fused to the pockets of the steel castings.

Mounting holes are cast square holes to fit a 5/8" carriage bolt.

Guards will be Class 7 Orange™ texture powder coated to provide corrosion resistance and safer handling.

MOUNTING HARDWARE:

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The mounting hardware will consist of high-quality thread locking components consisting of Grade 8 extended shoulder carriage bolts, Grade 8 plow bolts, all metal lock nuts and flat washers. All items to be pre-counted and sealed for corrosion resistance.

FINISHED PRODUCT:

Finished blade will be Class 7 Orange TM texture powder coated to provide corrosion resistance and safer handling.

Front edge of blade will be identified to avoid improper installation.

Finished blade shall comply with standard blade manufacturing tolerances.

SPECIFICATIONS:

Each Bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

**INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR'S
INSTRUCTION SHEET.**

**THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR
TECHNICALITIES UNDER THESES SPECIFICATIONS.**

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation therefrom.

USAGE AND SERVICE:

The bidder must provide assurance of the availability of repair parts and technical service at various locations with the State of Oklahoma.

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(Complete the following)

List parts and service locations in Oklahoma

Name: _____

Name: _____

Address: _____

Address: _____

City: _____

City: _____

Phone: _____

Phone: _____

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: _____ NO: _____

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DEALER: _____ **DATE:** _____

SIGNATURE: _____ **PHONE:** _____

ADDRESS: _____