



Awarded Supplier Information

Supplier Name: Dub Ross Co., Inc.

Supplier ID #: 0000072935

Supplier Address: PO Box 270066

City: Oklahoma City

State: OK

Zip Code: 73137

Contact Person Name: Mike Ross

Phone #: 1-405-495-3611

Title: President

Fax #: 1- - -

Email: Mike.ross@dubross.com

Website: www.dubross.com

Authorized Location: ☐ Locations list attached as *n/a*

☐ Address:

City:

State:

Zip Code:

Contract ID #: 4345

Delivery: FOB Destination

Minimum Order: n/a

P/Card Accepted: ☒ Yes

☐ No

Other:



CONTRACT

State of Oklahoma

Dispatch via Print

Supplier 0000072935
DUB ROSS CO INC
PO BOX 270066
OKLAHOMA CITY OK 73137-0066
USA

Contract ID		Page	
000000000000000000004345		1 of 3	
Contract Dates	Currency	Rate Type	Rate Date
03/14/2016 to 03/13/2017	USD	CRRNT	PO Date
Description:		Contract Maximum	
		0.00	
TYPE: STATEWIDE			

Tax Exempt? Y Tax Exempt ID:736017987

Contract Lines:

Line #	Cat CD / Item ID / Item Desc	UOM	Minimum Order		Maximum / Open	
			Qty	Amt	Qty	Amt
1	31161627 / 1000027671 BOLT:Assembly for snow plow 5/8x2 w/nut-Gurd 8 Dome head Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		1.40000	EA	0001	
2	31161627 / 1000027672 BOLT:Assembly for snow plow 5/8x2-1/2 w/nut-guard 8 Dome head Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		1.60000	EA	0001	
3	31161627 / 1000027673 BOLT:Assembly for snow plow 5/8x3 w/nut-guard 8 Dome head Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		1.70000	EA	0001	
4	31161627 / 1000027674 BOLT:Assembly for snow plow 5/8x3-1/2 w/nut-guard 8 Dome head Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		1.90000	EA	0001	
5	31161627 / 1000027645 BOLT:Assembly Bolt w/nut 5/8x2 Flat head for road grader Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		1.00000	EA	0001	
6	31161627 / 1000027610 BOLT:Assembly Bolt w/nut 5/8x2-1/2 Flat head Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		1.32000	EA	0001	
7	31161627 / 1000027648 GRADER: Bolt w/nut 5/8x3 Flat head	EA	1.00	0.00	0.00	0.00

Final = The price is final after adjustments
Hard = Apply adjustments regardless of other adjustments
Skip = Skip adjustments if any other adjustments have been applied

Authorized Signature



CONTRACT

State of Oklahoma

Dispatch via Print

Supplier 0000072935
DUB ROSS CO INC
PO BOX 270066
OKLAHOMA CITY OK 73137-0066
USA

Contract ID			Page	
00000000000000000004345			2 of 3	
Contract Dates		Currency	Rate Type	Rate Date
03/14/2016 to 03/13/2017		USD	CRRNT	PO Date
Description:			Contract Maximum	
			0.00	
TYPE: STATEWIDE				

Tax Exempt? Y Tax Exempt ID:736017987

Contract Lines:

Line #	Cat CD / Item ID / Item Desc	UOM	Minimum Order Qty	Amt	Maximum / Open Qty	Amt
	Bolts are priced per each.					
	Contract Base Pricing			1.47000	EA	0001
8	31161627 / 1000027622 GRADER: Bolt w/nut 5/8x3-1/2 Flat head Bolts are priced per each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing			1.66000	EA	0001
9	22101703 / Plow blade. Dual Carbide 7/8" x 5" x 36" Bucyrus #4406281/ \$291.45 per each 3 foot length.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing			291.45000	EA	0001
10	22101703 / Plow blade. Dual Carbide 7/8" x 5" x 48" Bucyrus #4406284. \$385.31 per each 4 foot length.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing			385.31000	EA	0001
11	22101703 / Grader Blade. Curved Double Bevel Standard punch. 5/8" x 6" Bucyrus. Priced per foot. \$8.87 per foot.	FT	1.00	0.00	0.00	0.00
	Contract Base Pricing			8.87000	FT	0001
12	22101703 / Grader Blade. Curved Double Bevel Standard punch. 5/8" x 8" Bucyrus. Priced per foot. \$13.05 per foot.	FT	1.00	0.00	0.00	0.00
	Contract Base Pricing			13.05000	FT	0001
13	22101703 / Grader Blade. Dual Carbide. 7/8" x 5" x 36".	EA	1.00	0.00	0.00	0.00

Final = The price is final after adjustments
Hard = Apply adjustments regardless of other adjustments
Skip = Skip adjustments if any other adjustments have been applied

Authorized Signature



CONTRACT

State of Oklahoma

Dispatch via Print

Supplier 0000072935
DUB ROSS CO INC
PO BOX 270066
OKLAHOMA CITY OK 73137-0066
USA

Contract ID 000000000000000000004345			Page 3 of 3	
Contract Dates 03/14/2016 to 03/13/2017		Currency USD	Rate Type CRRNT	Rate Date PO Date
Description:			Contract Maximum 0.00	
TYPE: STATEWIDE				

Tax Exempt? Y Tax Exempt ID:736017987

Contract Lines:

Line #	Cat CD / Item ID / Item Desc	UOM	Minimum Order Qty	Amt	Maximum / Open Qty	Amt
	Bucyrus. #4406281. 3'. Priced \$291.45 ea.					
	Contract Base Pricing			291.45000		
		EA			0001	
14	22101703 / Grader Blade. Dual Carbide. 7/8" x 5" x 48". Bucyrus. #4406284. 4'. Priced ea. \$385.31.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing			385.31000		
		EA			0001	
15	22101703 / Grader Blade. Curved double bevel. Standard punch. 3/4" x 8" Bucyrus. \$15.36 per foot.	FT	1.00	0.00	0.00	0.00
	Contract Base Pricing			15.36000		
		FT			0001	
16	22101703 / Plow blade. Standard punch 12" punch w/sq 11/16" 1/2" x 6". Bucyrus. \$9.80 per foot.	FT	1.00	0.00	0.00	0.00
	Contract Base Pricing			9.80000		
		FT			0001	
17	22101703 / Plow blade. Standard punch 12" punch w/sq 11/16" 1/2" x 6" x 90" long Bucyrus Brand 9 feet long. Bucyrus Brand. #8113001. \$64.19 each.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing			64.19000		
		EA			0001	
18	22101703 / Grader blade. Curved double beveled 3/4" x 6" Bucyrus Brand 6 feet long. Bucyrus. \$11.38 per foot.	FT	1.00	0.00	0.00	0.00
	Contract Base Pricing			11.38000		
		FT			0001	

COMMENTS:

Final = The price is final after adjustments
Hard = Apply adjustments regardless of other adjustments
Skip = Skip adjustments if any other adjustments have been applied

Authorized Signature

CONTACT INFORMATION FOR:

Website:

Company Name	Dub Ross Co Inc
Doing Business as (if applicable)	Dub Ross Co
Contact Person for Solicitation Response	W Mike Ross
Phone	405 495 3611
Email	mike.ross@dubross.com
Address For Purchase Orders-Number & Street-Post Office Box (some companies have ordering addresses that are different than the payment address)	PO Box 270066 OK, OK 73137
City, State, Zip	
Contact Person for Contract/Ordering/Price Information/Equipment Additions/Changes/Discontinuations	W. Mike Ross
Phone	405 495 3611 / 800 522-3790
Fax	405 495 3628
Email	mike.ross@dubross.com
Secondary Contact for Contract/Ordering	Sheryl Cagle
Phone	405 495 3621
Fax	405 495 3628
Email	sheryl.cagle@dubross.com
Address For Payment-Number & Street-Post Office Box (some companies have a different Payment/remittance address than the ordering address)	PO Box 270066 OK
City, State, Zip	OK OK 73137
Contact Person/Department for payment	Sheryl Cagle
Phone	405 495 3621 / 800 522-3790
Fax	405 495 3628
Email	sheryl.cagle@dubross.com
Payment Discount (i.e. 15 days)	Net _____ days
Supplier will be responsible for notifying the contracting officer when the contact information changes for ordering and payment.	Notes: (Special ordering instructions-please attach any special instructions on a separate sheet)

Grader/Plow blades

Size	Brand	Brand #	Price per each	Price per each or foot (specify each or per foot)
Bolt & Nut	5/8" x 2" grade 8/Dome		1.40	
Bolt & Nut	5/8" x 2 1/2" grade 8/Dome		1.60	
Bolt & Nut	5/8" x 3" grade 8/Dome		1.70	
Bolt & Nut	5/8" x 3 1/2" grade 8/Dome		1.90	
Bolt & Nut	5/8" x 2" grade 8/Flat Head		1.00	
Bolt & Nut	5/8" x 2 1/2" grade 8/Flat Head		1.32	
Bolt & Nut	5/8" x 3" grade 8/Flat Head		1.47	
Bolt & Nut	5/8" x 3 1/2" grade 8/Flat Head		1.66	
Carbide plow blade	3/4" x 6"	Brand Bucyrus		NO BID
Carbide plow blade	3/4" x 6"			
Carbide plow blade	3/4" x 6"			
Carbide plow blade	7/8" x 5"			
Carbide plow blade	7/8" x 5"		4406284	NR 285.31 291.45 ea
Carbide plow blade	7/8" x 5"		4406284	385.31 ea
Grader Blade	5/8" x 6"			887/LF
Grader Blade	5/8" x 8"			1305/LF
Grader Blade	5/8" x 8"			1305/LF
Grader Blade	7/8" x 5"			NO BID
Grader Blade	7/8" x 5"		4406284	291.45 ea
Grader Blade	7/8" x 5"		4406284	385.31 ea
Grader Blade	7/8" x 5"			NO BID
Grader Blade	7/8" x 5"			
Grader Blade	7/8" x 5"			
Grader Blade	7/8" x 5"			
Grader Blade	7/8" x 5"			
Grader Blade	3/4" x 6"			
Grader Blade	3/4" x 8"			
Grader Blade	3/4" x 8"			
Plow Blade	12"x6" stand punch 12" punch w/sq 11/16"	9' 10' 11' 12' (7'6")		
Plow Blade	12"x6" stand punch 12" punch w/sq 11/16"	12"x6" x 90" Long Bucyrus (7'6")	8113001	6419 each
				1138/LF

curved dbl Bev 3/4x6



Certificate of Quality

ESCO Blades High Carbon FORGETEMP[®] grader and snow plow blades are built from the highest quality hot rolled steel, which is designed to produce the following analysis:

Carbon -	.80-.93	Sulfur -	.05 Maximum
Manganese -	.60 - .90	Silicon -	.35 Maximum
Phosphorous -	.04 Maximum		

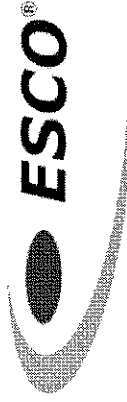
Steel of the above analysis is expected to produce a minimum Brinell hardness of 241-321. Bucyrus Blades' ForgeTemp grader and snow plow edges are warranted against faulty workmanship and/or defective material.

ESCO Blades Surface Hardened grader and snow plow blades are built from the highest quality hot rolled C1074 steel. The cutting edge is surface hardened front and back to a Rockwell C hardness of 57-67 to a minimum depth of 1/8 inch. The hardened area on top punched blades begins approximately 5/8 inch from the bottom of the cutting edge and 3-1/2 inches wide.

ESCO Blades' surface hardened products are guaranteed against breakage under normal operating conditions. This warranty does not apply to any cutting edges which have been hardfaced or otherwise altered from original manufacture specifications. Breakage due to impact is not covered.

ESCO Blades through-hardened MAXTEMP[®] grader blades are built from the highest quality hot rolled boron steel and are through-hardened to a Rockwell C hardness of 43-50.
(Brinell Hardness Rating: 400 - 512 BHN)

All MaxTemp products are warranted against faulty workmanship and/or defective material. *ESCO Blades' MaxTemp grader cutting edges*, not including 1/2 x 6" grader material, are guaranteed against breakage under normal operating conditions. This warranty does not apply to any cutting edges which have been hardfaced or otherwise altered from original manufacture specifications.



Certificate of Quality

ESCO Blades High Carbon FORGETEMP® grader and snow plow blades are built from the highest quality hot rolled steel, which is designed to produce the following analysis:

Carbon -	.80-.93	Sulfur -	.05 Maximum
Manganese -	.60 - .90	Silicon -	.35 Maximum
Phosphorous -	.04 Maximum		

Steel of the above analysis is expected to produce a minimum Brinell hardness of 241-321. Bucyrus Blades' ForgeTemp grader and snow plow edges are warranted against faulty workmanship and/or defective material.

ESCO Blades Surface Hardened grader and snow plow blades are built from the highest quality hot rolled C1074 steel. The cutting edge is surface hardened front and back to a Rockwell C hardness of 57-67 to a minimum depth of 1/8 inch. The hardened area on top punched blades begins approximately 5/8 inch from the bottom of the cutting edge and 3-1/2 inches wide.

ESCO Blades' surface hardened products are guaranteed against breakage under normal operating conditions. This warranty does not apply to any cutting edges which have been hardfaced or otherwise altered from original manufacture specifications. Breakage due to impact is not covered.

ESCO Blades through-hardened MAXTEMP® grader blades are built from the highest quality hot rolled boron steel and are through-hardened to a Rockwell C hardness of 43-50.
(Brinell Hardness Rating: 400 - 512 BHN)

All MaxTemp products are warranted against faulty workmanship and/or defective material. ESCO Blades' *MaxTemp grader cutting edges*, not including 1/2 x 6" grader material, are guaranteed against breakage under normal operating conditions. This warranty does not apply to any cutting edges which have been hardfaced or otherwise altered from original manufacture specifications.

Analysis Sheet- 25 Deg Trap Insert

SECTIONAL TUNGSTEN CARBIDE TIPPED SNOWPLOW AND GRADER CUTTING EDGES

The following specifications are the result of years of constant field research and development. These revised specifications will assure end users of a consistent, high-quality product.

1. BLADE

- 1.1 The blade shall be flat single beveled hot-rolled finished steel of a chemistry and/or grade to match SAE 1020-1040 and will have a 35 degree top bevel with $\frac{3}{4}$ " thick having a $\frac{5}{16}$ " blunt and $\frac{7}{8}$ " thick having a $\frac{3}{8}$ " blunt

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

2. CARBIDE

- 2.1 The inserts shall be a high shock WC grade of Tungsten Carbide with 10-12 % cobalt content.

Density:

14.1 (Minimum) to 14.6 (Maximum) Grams/cm³

Hardness:

87.5 (Minimum) to 89.0 (Maximum) Rockwell "A" scale

Transverse Rupture Strength: 350,000 to 400,000 PSI

- 2.2 The inserts shall be designed to meet the customer's specifications where listed, or as a standard design of the following dimensions:

Height:

.635" \pm .010 (Long side)

Width:

.365" \pm .005

Length:

1" Nominal

Bottom Angle: 25° with a nose radius of $\frac{1}{16}$ " minimum.

3. BRAZING

- 3.1 The brazing material shall be a high strength alloy type. The braze shear strength to be 30,000 PSI.
- 3.2 The tungsten carbide inserts shall be positioned in the milled groove at .010 between the inserts along the entire length of each cutting edge section.
- 3.3 The inserts shall be brazed on all sides consistent with sound brazing practices, and no evidence of voids or use of shims.
- 3.4 Each blade section shall contain one insert of 1" nominal length per each inch of blade section length. (Reference 2.2)

4. EMBEDDING

- 4.1 The crushed carbide shall be the "blocky" type which penetrates and compacts in the mold matrix
- 4.2 The crushed carbide shall be applied in a hot wire (tig) process to a puddle depth of $\frac{3}{16}$ " in the parent metal.

5. SPECIFIC REQUIREMENTS

- 5.1 The finished blade sections shall have markings showing the front edge of the blade to avoid improper mounting.

Analysis Sheet- 25 Deg Trap Insert

SECTIONAL TUNGSTEN CARBIDE TIPPED SNOWPLOW AND GRADER CUTTING EDGES

The following specifications are the result of years of constant field research and development. These revised specifications will assure end users of a consistent, high-quality product.

1. BLADE

- 1.1 The blade shall be flat single beveled hot-rolled finished steel of a chemistry and/or grade to match SAE 1020-1040 and will have a 35 degree top bevel with $\frac{3}{4}$ thick having a 5/16 blunt and 7/8 thick having a 3/8 blunt
- 1.2 The groove for the carbide inserts shall be milled in the center of the blade edge.

2. CARBIDE

- 2.1 The inserts shall be a high shock WC grade of Tungsten Carbide with 10-12 % cobalt content.
Density: 14.1 (Minimum) to 14.6 (Maximum) Grams/cm³
Hardness: 87.5 (Minimum) to 89.0 (Maximum) Rockwell "A" scale

Transverse Rupture Strength: 350,000 to 400,000 PSI

- 2.2 The inserts shall be designed to meet the customer's specifications where listed, or as a standard design of the following dimensions:

Height:	.635" \pm .010 (Long side)
Width:	.365" \pm .005
Length:	1" Nominal
Bottom Angle:	25° with a nose radius of 1/16" minimum.

3. BRAZING

- 3.1 The brazing material shall be a high strength alloy type. The braze shear strength to be 30,000 PSI.
- 3.2 The tungsten carbide inserts shall be positioned in the milled groove at .010 between the inserts along the entire length of each cutting edge section.
- 3.3 The inserts shall be brazed on all sides consistent with sound brazing practices, and no evidence of voids or use of shims.
- 3.4 Each blade section shall contain one insert of 1" nominal length per each inch of blade section length. (Reference 2.2)

4. EMBEDDING

- 4.1 The crushed carbide shall be the "blocky" type which penetrates and compacts in the mold matrix
- 4.2 The crushed carbide shall be applied in a hot wire (tig) process to a puddle depth of 3/16" in the parent metal.

5. SPECIFIC REQUIREMENTS

- 5.1 The finished blade sections shall have markings showing the front edge of the blade to avoid improper mounting.