

# KOIS EQUIPMENT CO., INC.

5200 COLORADO BLVD. COMMERCE CITY, CO 80022  
PHONE: 303-298-7370 FAX: 303-298-8527  
www.koisbrothers.com

DATE  
07/10/19  
\*\*\*QUOTE\*\*\*

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19-1-1590

**SOLD TO:**  
MCCANDLESS INTERNATIONAL  
  
16704 EAST 32ND AVE.  
AURORA CO 80011

**SHIP TO:**  
TOWN OF ERIE  
RICH LUCAS  
150 BONNELL AVENUE  
ERIE CO 80516

CUSTOMER PO	CUSTOMER NUM	SHIP VIA	SALESMAN	TERMS	CUSTOMER PHONE
QUOTE	18650		2	NET 10	303-926-2893

PART NUMBER	DESCRIPTION	QTY ORD	UOM	PRICE	EXTENDED
SNOWPLOW PACKAGE FOR	*INTERNATIONAL HV507 CHASSIS	1.00	EA	150,671.00	150,671.00

INCLUDES - Hook Lift, Dump Body, Snowplow, Wing Plow,  
V-Box Sander, Lighting System & Hydraulic System.

96-10-24 STELLAR	*SHUTTE HOOKLIFT, 24K CAPACITY	1.00	EA	0.00	0.00
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**Lifting Capacity:**

- 24,000 pounds gross weight

**Container Length:**

- 10-foot through 12.5-foot from front A-frame to rear of skid rails. Longer bodies up to 14-feet may be accommodated if a full dump angle is not required

Maximum Dump Angle: 54 degrees

Operating Pressure: 4200 PSI maximum.

Weight of Hooklift: 2,600 pounds.

**Height of Hooklift Frame:**

- Hooklift frame height not to exceed 8.38" as measured from top of truck frame to top of hooklift rollers.

**Hook Height:**

- 54-inches from bottom of skid rails to bottom of hook bar.  
Hooklift must be able to pick up body 10-inches below grade, when mounted on a 41 truck frame height.

**Tilting Hook Assembly:**

- Hooklift must have pivoting type front tilt section (jib) to provide a low degree loading/unloading angle. Hook includes an automatic mechanical safety latch which disengages only when the container/body is in proper position to be picked-up

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or dropped-off.

Tilt Cylinder:

- Single 4-inch bore with 2-inch diameter rod cylinder. Cylinder must be double acting and include dual integral pilot-operated counterbalance valves to prevent cylinder collapse in case of hose failure.

Cylinder must be fully retracted when in the transport mode to prevent exposure of cylinder rod to corrosive road salts.

Tilt Section Operation:

- Hooklift includes a hydraulic lock-out device to prevent operation of the tilt section while hooklift is in the dumping mode.

Lift/Dump Cylinder:

- Single 5.5-inch bore with 2.5-inch diameter rod cylinder. Cylinder must be double acting and include dual integral pilot-operated counterbalance valves to prevent cylinder collapse in case of hose failure.

Dump/Tilt Interlock:

- Dumping is accomplished through a rear pivot. Tilt and lift sections lock into a rigid full length 25 wide frame to provide support for the container while in the dump mode.

These sections form this frame without the use of mechanical latches which rely on gravity, not springs, or container/body mounted latches.

The system is protected from out of sequence operation.

Tab Alarm:

- Tilt / Dump, Audible alarm to alert operators that they have operated hooklift out of sequence and need to replace 1/4" shear bolt in dump tab.

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Rear Body Hold-downs:

- Dual fixed-position hold down devices mounted to the dump frame to secure the body to the hooklift through all ranges of the dump mode.

This is accomplished without the use of steel springs or hydraulic/air cylinders.

Rear Dump Hinge Pin:

- 2-inch diameter 17-4 stainless steel.

Pins:

- All pins 17-4 stainless steel.

Bushings:

- All bushings to be of the DX pre-lubricated variety

Hoses & Hyd. Fittings:

- All hoses and fittings are SAE not metric. O-ring fittings utilized wherever possible

Fenders:

- Poly fenders for use with 22.5 wheels

Bumper:

- Heavy duty rectangular tubing bumper with LED light kit compliant with FMVSS108 standards, built in back-up alarm

WHELEN WARNING LIGHT	*AND ELECTRICAL SYSTEM INCLUDES	1.00	EA	0.00	0.00
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WHELEN DOT LED LIGHTING SYSTEM

CAB SHIELD LIGHTING - DUMP BODY AND SANDER:

- (2) Amber LED lights in recessed steel housing - on driver side cab shield (1) front facing and (1) side facing.
- (2) Blue LED lights in recessed steel housing -

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on curb side cab shield (1) front facing and (1) side facing.

**HOOKLIFT LIGHTING:**

- Steel housing located on rear of hooklift with;
- (1) LED amber on driver side and (1) LED blue on curb side.
- (2) LED stop / tail / turn and (2) LED back-up light
- License plate mount with light, back-up alarm.

**DUMP BODY - Marker lights**

SANDER - Work light - LED Smart/Heated

**ELECTRICAL WIRING:**

- Central wiring and electrical components enclosed in-cab between seats with removable access pannel.
- Electrical wiring secured every 18" to top of truck frame with vinyl coated loom clamps. All wire splices or connections utilize Deutsch DT series enviromentally sealed connectors.

FENDER MOUNTED SNOW	*PLOW LIGHTS, LED SMART HEATED	1.00	EA	0.00	0.00
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- Mounted on stainless steel tri-pod brackets with heated convex rear view mirrors

10' CARBON STEEL	*DUMP BODY - PAINTED ONE BLACK	1.00	EA	0.00	0.00
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36" HIGH SIDE, 42" HIGH TAILGATE, 86" I.D. 98" O.D.

7.9 to 9.2 Cubic Yard Capacity

FLOOR: 3/16" AR450 steel, one piece no seams

FRONT: 56" high, 7 gauge 50,000 psi steel

**SIDES:**

- 36" high, 10 gauge 50,000 psi steel full length outer panel

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with one formed horizontal side brace, 6" boxed top rail,  
 6" deep sloping bottom rail, 7 gauge 50,000 psi steel  
 inner panel - for double panel sides  
 7 gauge 201 stainless steel rear boxed corner post  
 2.25 I.D. side board pockets, no side boards

**TAILGATE:**

- 42" high double panel 10 gauge 50,000 psi outer panel  
 7 gauge 50,000 psi inner panel, Fully boxed perimeter  
 with sloped bracing, 1" steel upper hinge, 1-1/4" hinge  
 pins with greaseless bushings  
 Electric over air tailgate latch, 3/8" spreader chains  
 Single barn door tailgate, will swing to curbside &  
 and lay flat against body with tie back hardware

CAB PROTECTOR: 20" x 84" 10 gauge grade 50 carbon steel

APRON: 8" bolt-on spreader apron

LADDERS: (2) Front body mounted ladder each side

(2) Two slide-out ladders front underbody each side

HOLDERS: (2) Two shovel holders, (1) winch bar holder

HOOKLIFT FRAME: 54" hook, skid and 8" x 10" rear rollers

TARP: SHURCO Armatic electric tarp system with tension arm

DC2500 COUGAR	*12 VOLT VIBRATOR & MOUNT PLATE	1.00	EA	0.00	0.00
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MOUNT CENTER FRONT UNDER DUMP BODY

MPJC-6100-3-GEN 5	*ULTRA FORCE AMERICA HYDRAULIC	1.00	EA	0.00	0.00
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SYSTEM INCLUDES:

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- VT35 Tank valve combination with poly cover
- ADD-A-FOLD control valve, temp and level sensor,
- FASD45L front engine crank shaft driven piston pump, pump shut off valve, 2" suction line ball valve.

**CONTROLS:**

- Ultra seat mounted 3-stick controls - Dual axis plow, Single axis hoist, Single axis Jib
- Valves
  - Double acting hook hoist - high pressure
  - Double acting jib - high pressure
  - Double acting plow lift with integrated float
  - Double acting plow angle
  - 0-14 GPM Direct liquid or 0-5 pre-wet
  - 0-14 GPM Auger, 0-7 GPM Spinner

**PLUMBING:**

- Stainless steel hydraulic lines under dump body with rubber hoses to valve, dump body, rear to sander, forward to pump and snowplow

**COUPLING:**

- 4 - Station Stucchi for snowplow with park station
- 6 - Station Stucchi for sander & liquid with park station

HENKE ROAD WARRIOR	*ECT, PLPM 42"HIGH 12' LENGTH	1.00	EA	0.00	0.00
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- 42" High 12' Length
- Top angle: 3-1/2" x 2-1/2" x .375
- Bottom angle: 4" x 4" x 3/4"
- Ribs: 1/2" with two horizontal braces for added rigidity

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	<ul style="list-style-type: none"> <li>- (5) moldboard to push-frame connection points with bushings</li> <li>- 100% continuous welds, no skip welding</li> <li>- Heavy duty, tubular steel push frame               <ul style="list-style-type: none"> <li>- 5" x 2" top tube</li> <li>- 6" x 4" lower tube</li> </ul> </li> <li>- Welded bosses at all critical connection points</li> <li>- (ECT) external compression trip with (3) adjustable layback positions</li> <li>- Accumulator system to provide smooth mechanical float operation</li> <li>- Dual A arm lift with central pivot point to achieve parallel lift and oscillation</li> <li>- Poly wear sheet between swiveling surfaces reduces friction               <ul style="list-style-type: none"> <li>- Bushings at all swivel plate connections increase strength and prevent overtightening</li> </ul> </li> <li>- Flat plate hitch plow portion</li> <li>- Mechanical float allows plow to follow the profile of the road and float (22.5 inches) over road obstacles without a hydraulic float system.-Mechanical float can quickly react to changes in elevation with less resistance than hydraulic systems.</li> <li>- Plow floats mechanically, independently of the truck hydraulic system.</li> <li>- Low profile backplate while still maintaining 10" of ground clearance</li> <li>- Rubber Shield</li> <li>- 1/2" x 8" x 12' SAE 1084 high carbon steel cutting edge</li> <li>- Parking stands</li> <li>- Rod Markers</li> </ul>				

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EV SLECT 10-56	*SWENSON HYDRAULIC DRIVEN V-BOX - Paint: Orange, Omaha - Flat plate hitch truck portion - Side plate style truck attach kit - Paint: Black	1.00	EA	0.00	0.00

- 10' Length x 56" High x 82" Wide hopper 45 degree slope
- Constructed of 10 ga 201 stainless steel sides and ends
- Bolt-in 6" wide flange, top (H) beam
- 7 ga. Bolt-in replaceable conveyor floor
- 7 ga. slotted longitudinals for easy gearbox/drive shaft removal
- Sensored motor
- 2" drive shaft, 2" idler shaft, spring loaded chain take-up to the rear of sander
- Self cleaning pintle style conveyor chain (21,000 lbs. tensile strength per strand)
- 1-1/2" x 3/8" double welded cross bars
- Rear chain wiper
- Drop-N-Loc top screens
- 12" adjustable height spinner extension
- 2 internal baffle, 4 external baffles (3 adjustable, front fixed)
- Lower spinner assembly with top mounted motor
- Swing-up spinner assembly with rear diverter chute
- 20" poly spinner disc
- Inverted vee
- Rear ladder fold-up
- Carbon steel 54" Hook Lift skid with leg stands and rear rollers

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	LSSH Pre-Wet system bulk fill - (2) 115 gallon tanks				
MISCELLANEOUS PARTS	*AND SHOP SUPPLIES	1.00	EA	0.00	0.00
LABOR INSTALL	INSTALLATION LABOR	1.00	EA	0.00	0.00
	ASSEMBLE TRUCK AND EQUIPMENT				
PAINT DUMP BODY,	*FRONT BUMPER AND TOUCH-UP	1.00	EA	0.00	0.00

All returned goods must be accompanied by  
 invoice and are subject to handling charge after 30 days.

\*\*\*NO RETURNS AFTER 90 DAYS\*\*\*

A SERVICE CHARGE OF 2% PER MONTH, 24% PER ANNUM WILL BE ADDED TO ANY INVOICE NOT PAID.  
 BY THE LAST DAY OF THE MONTH IN WHICH IT IS DUE. WE ARE CONFORMING WITH THE FAIR LABOR  
 STANDARDS ACT OF 1938 AS AMMENDED NOT RESPONSIBLE FOR TIME LOST DUE TO FIRE, STRIKE  
 OR CAUSES BEYOND OUR CONTROL. STENOGRAPHICAL AND CLERICAL ERRORS SUBJECT TO CORRECTION

THANK YOU FOR ALLOWING US TO QUOTE THESE ITEMS. YOUR COST IS

Sub Total	150,671.00
Sales Tax	0.00
F.E.T.	0.00
Freight	0.00
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<b>TOTAL</b>	<b>150,671.00</b>