

North Dakota: Cutting Edge Lift

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North Dakota: Cutting Edge Lift

Problem

- Size and weight of changing cutting edges on a piece of equipment.
- Normally stacked in piles and must be lifted and moved to a piece of equipment to be mounted.
- Requires 2 people exposed to possible injury.

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Solution

- Designed to transport a cutting edge from a stack to the piece of equipment to be mounted.
- Unique with multiple adjustments.
 - Lift arm raises by ratchet from ground level to 6’.
 - Edge is secured by 2 screw clamps on each end of arm.
 - Can be angled so 1 person can remove and replace edges.



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Labor & Materials

- Cost of material ~ \$200.
 - Including a ratchet, three caster wheels, and various sizes of steel square tubing.
- Labor was 10 hours @ \$30/hour for a cost of \$300.

Total ~ \$500.

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Savings & Benefits

- Can be used to mount cutting edges on *motor graders, front end loaders, and snowplow truck wings and plows.*
 - Motor grader moldboard can be angled so cutting edge can be mounted from a standing position.
- Design requires minimal manual lifting & multiple adjustments eliminate getting under a piece of equipment.