



Assistive Technology

Presented by: Jeff Kratochwill
Rural Rehabilitation Specialist
Phone 608.279.9436
jkratochwill@eastersealswisconsin.com



Easter Seals Wisconsin
8001 Excelsior Drive
Madison WI 53717



National Training Workshop

March 24, 2020

*No Financial Disclosure



What is Assistive Technology?

- Adaptive and rehabilitative changes for people with disabilities
 - Typically includes: devices or equipment that address the limitations, adjusting methods to accomplish a task
 - Can be low tech or high tech; expensive or inexpensive
 - Assistive Technology is individualized to the farmer, the disability, and the farm
- 



Assistive Technology Examples

Agri-speed Automatic Hitch

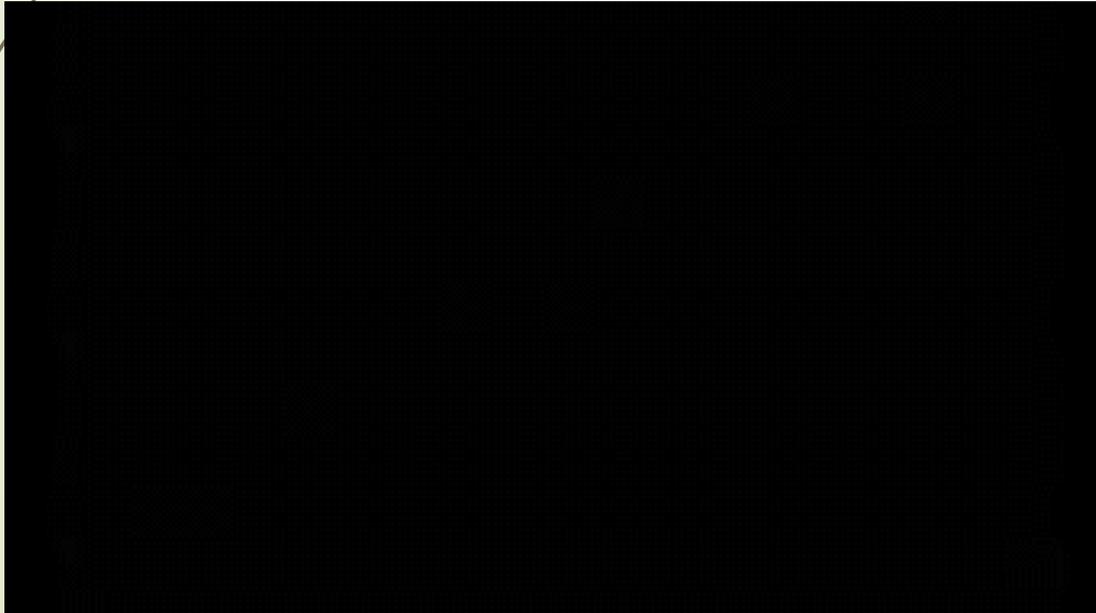
- ▶ Allows hitching and unhitching without leaving your seat
- ▶ PTO Compatible
- ▶ Compatible with choppers
- ▶ Increases efficiency



Agri-speed Automatic Hitch



Agri-speed Automatic Hitch



Step and Handrail Kits



Price Range: \$230-\$400



Approx.: \$190



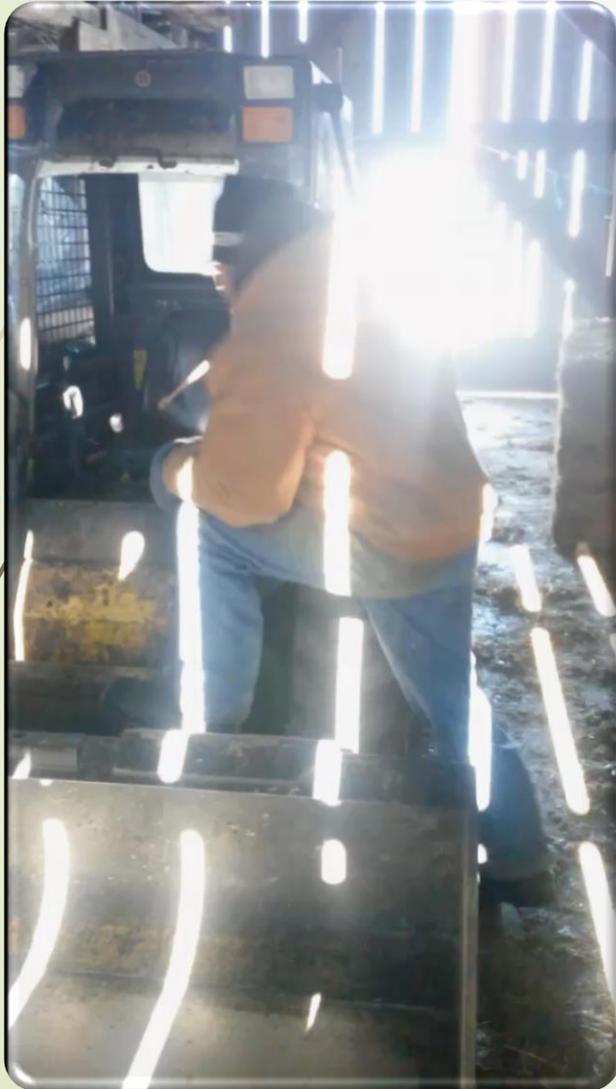
Before



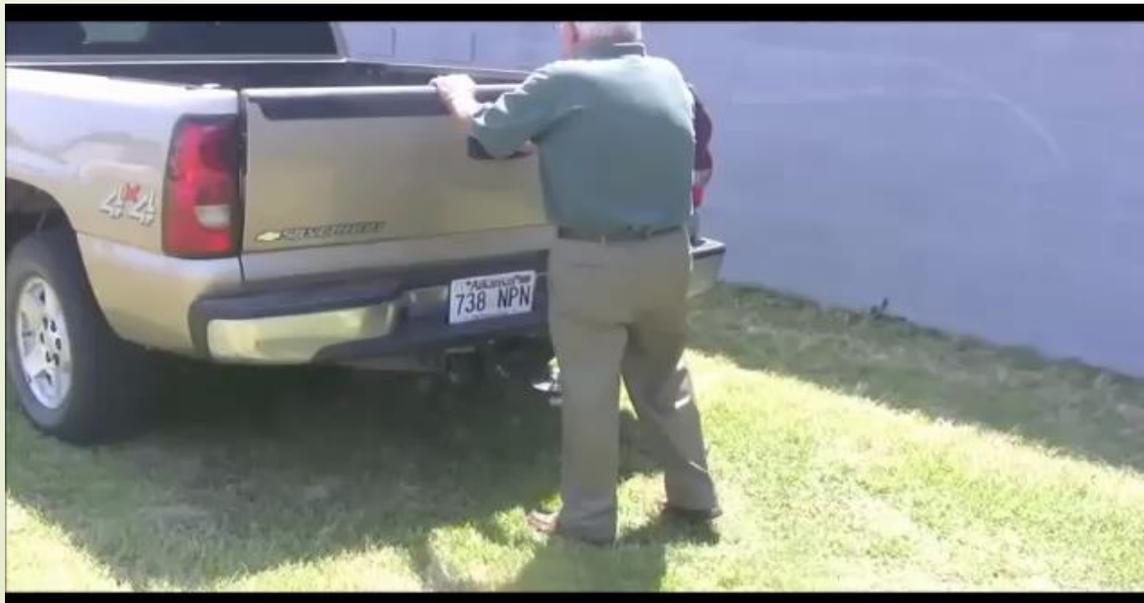
After



Skid Steer Steps



Pick-up Truck Steps



Approx.: \$40



Approx.: \$100

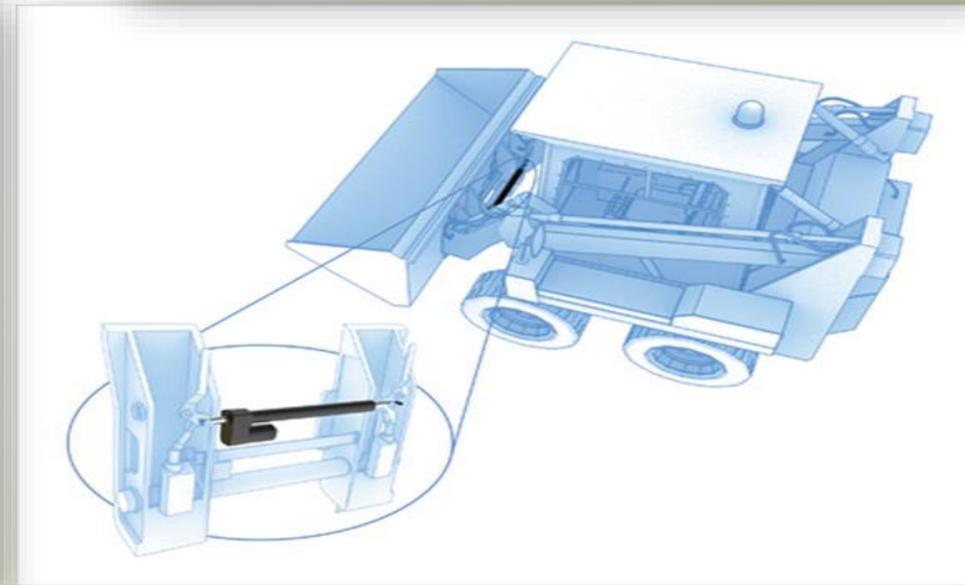
Lifts



PTO Jack



Power Skid Steer Attach



Hydraulic Hoses



Hydra grip

\$16/set



Pistol grip

\$30/ set

Hand Controls



Camera Systems



Price Range: \$250-\$400



Suspensions & Seats

High-backed seat with air suspension

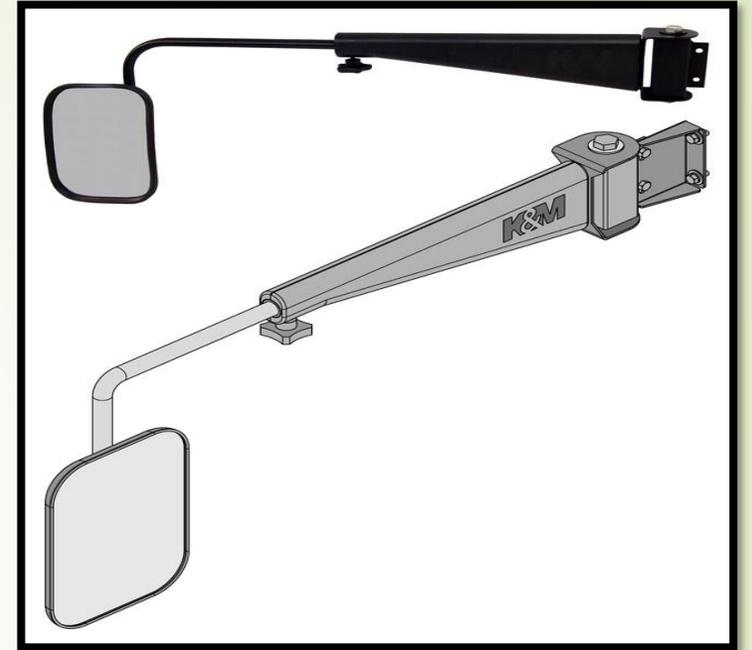


Air Hawk seat cushion



Skid steer air suspension

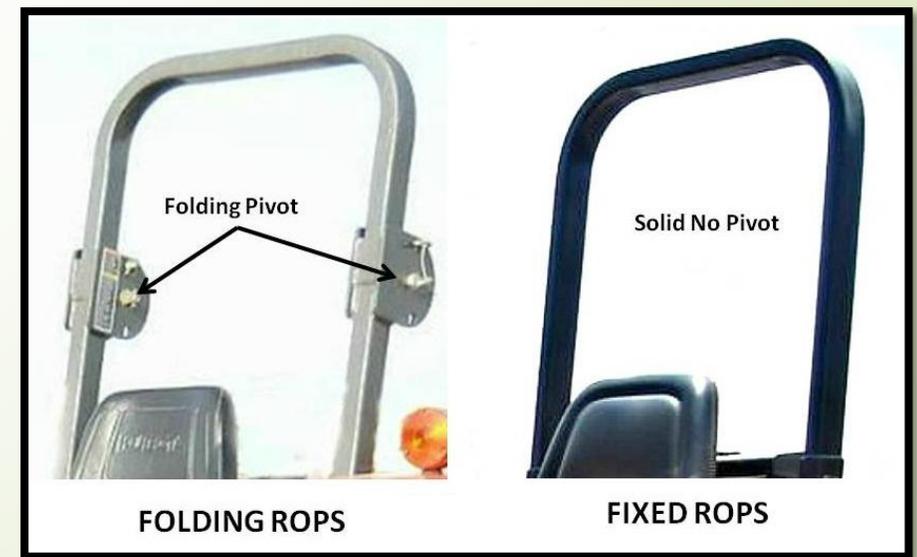
Extended Mirrors



Approx.: \$190



Protective Modifications



RZ Masks

- ▶ Two Types:
 - ▶ Neoprene mask: Made for cold weather protection
 - ▶ Mesh mask: Made more breathable keeping the user's face cooler in warm conditions
- ▶ Both have a dual-exhalation valve system that removes moisture and keeps unfiltered air out. Hook-and-loop closure system.
- ▶ Approximately \$30



Mobility

- Freedom Chair
- Track Chair



Ice Cane



Approx.: \$10

Briggs Healthcare 800.247.2343

Shoe Ice Grips



Price Range: \$20-\$45



Yaktrax 1.866.925.8729

Drive Through Gates





Bump N' Drive Gate

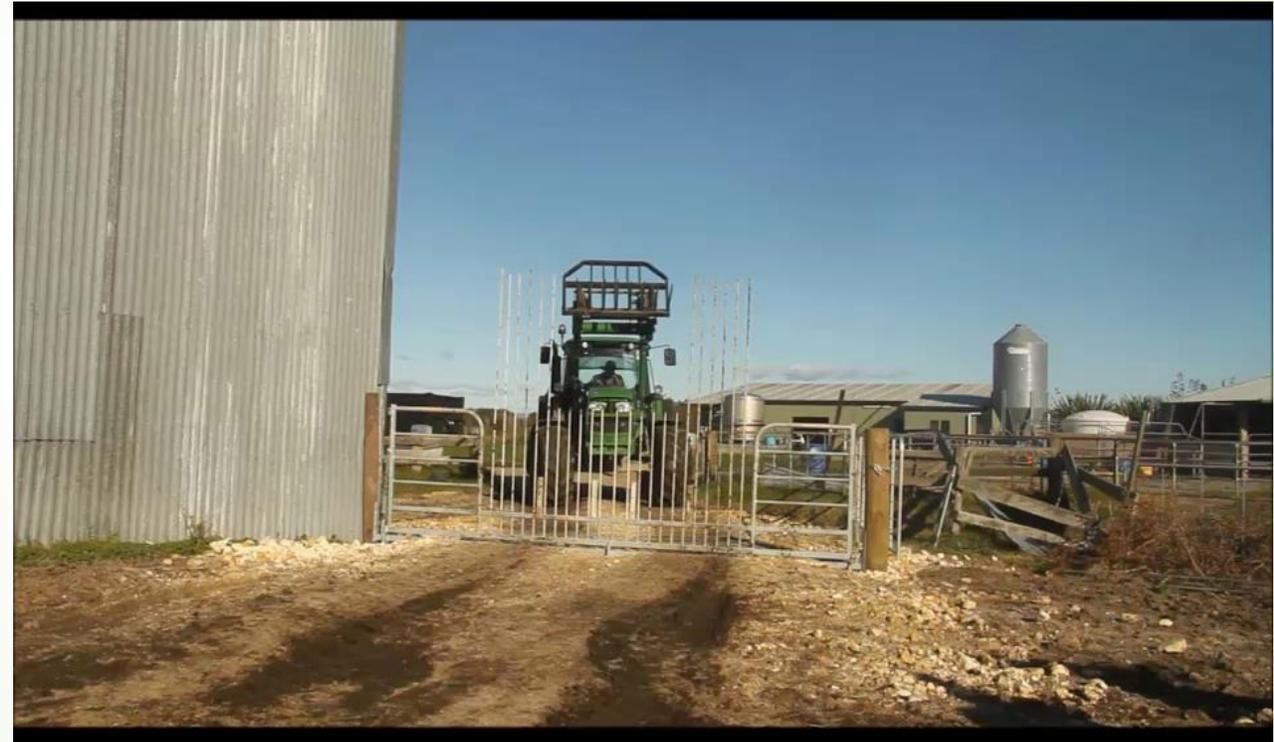


BUMP N' DRIVE ?

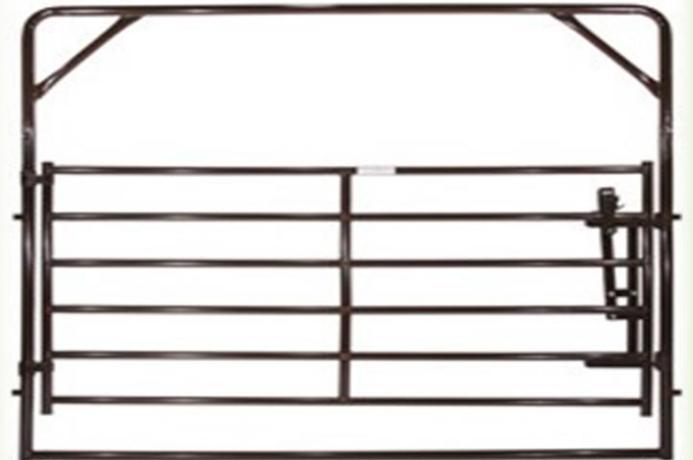
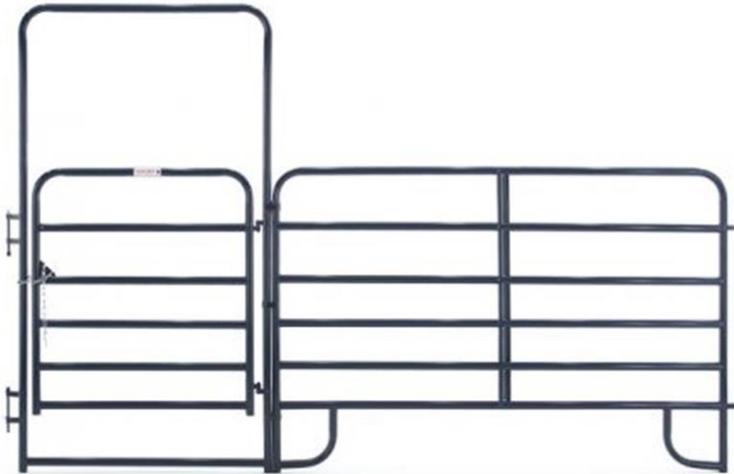
Powered Gate



Push N' Drive Gate



Walk-Through Gate



Calf Cart



Approx.: \$480



Calf Catcher



Price Range: \$2,100-\$2,545



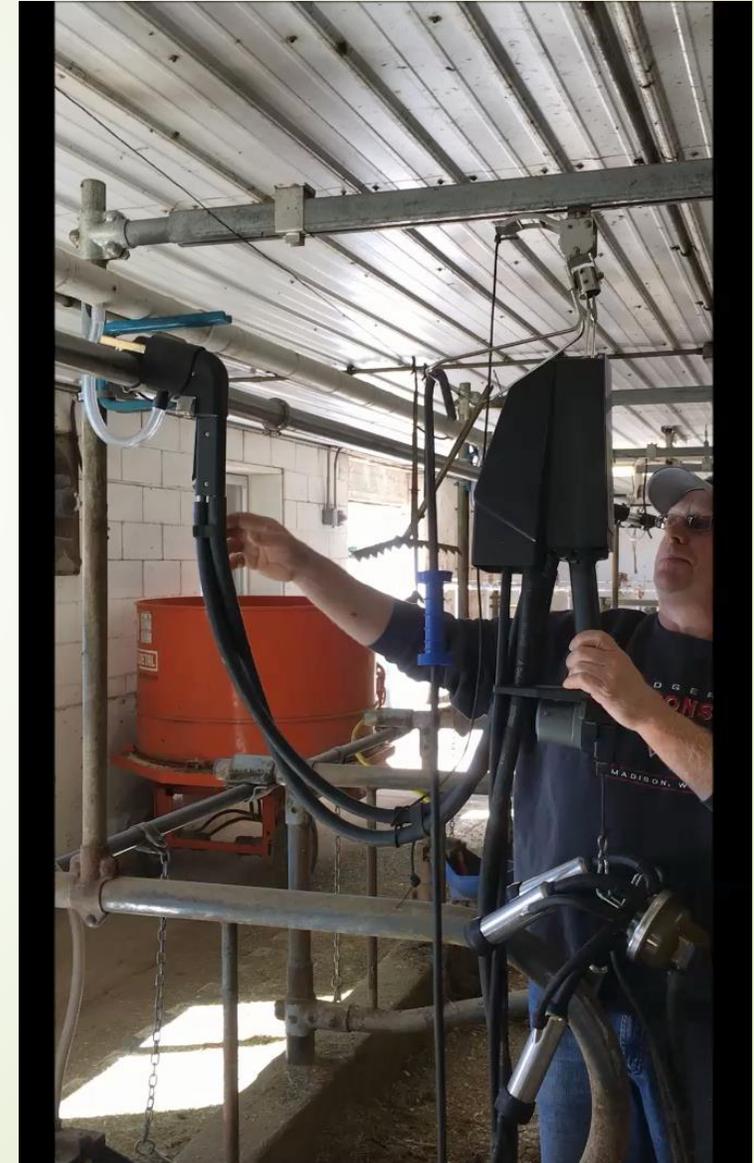
Alley, Cow, & Parlor Mats



Track System



Track System



Power Loader

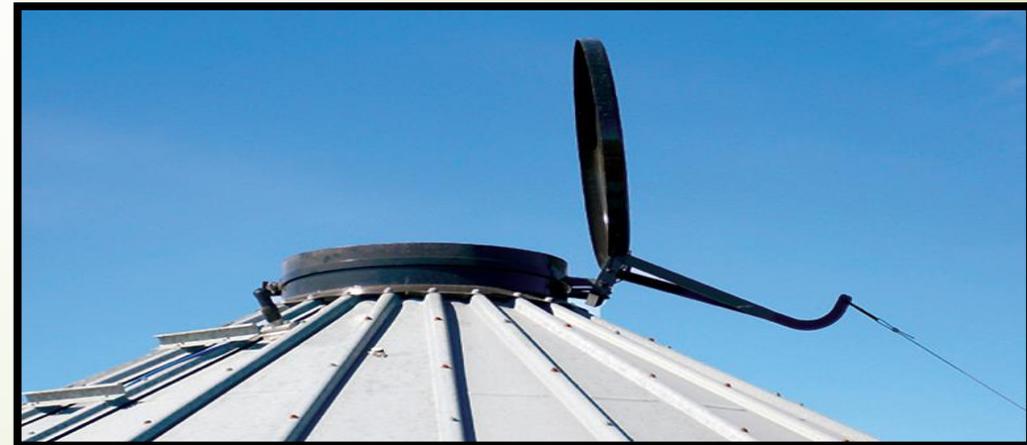
- ▶ Powered by a factory-installed, or an after-market winch
- ▶ At the push of a button, the telescopic lifting arms retract and curl to move loads up to 350 lbs. from the ground to a “Locked and Loaded” position
- ▶ Installs on any 4-wheeled ATV, golf cart, or utility vehicle
- ▶ Approximately \$340; UTV brackets extra \$88



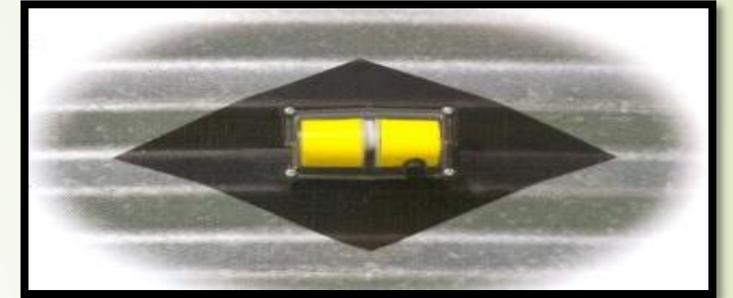
Bale Slicer



Remote Grain Bin Lid Opener



Grain Level Indicators



Upper Hand Devices



Questions



Credits

- Action Trackchair. *Action Track Chair in Standing Position* [Image]. Retrieved from <http://actiontrackchair.com/funding-information/>
- AgrAbility PA. (2019). *Agri-Speed Hitch Demonstration* [Video]. Retrieved from <http://www.youtube.com/watch?v=8BQ8hZ7XfFk>.
- Amazon. *ICEtrekkers Shoe Diamond Grip* [Image]. Retrieved from https://images-na.ssl-images-amazon.com/images/I/517jxir%2BKjL._AC_.jpg
- Angus TV. (2015). *Safety Zone Calf Catcher* [Video]. Retrieved from <https://youtu.be/QCp-4AYWwFY>
- BayWa Livestock Farming. *Comfort mats and cow mattresses* [Image]. Retrieved from https://www.baywa.de/typo3temp/_processed_/xcs/_Stallsysteme_DeLaval_Kuhmatte_791c313612.jpg.pagespeed.ic.-C3c6woJjq.jpg
- Bergman Manufacturing. *Agri-Speed Hitch product video* [Video]. Retrieved from <https://www.bergmanmfg.com/Video/Basic42sec.mp4>
- Bergman Manufacturing. *Agri-Speed Hitch* [Image]. Retrieved from <https://www.bergmanmfg.com/pictures.html>
- Bump N' Drive. *Would you benefit from a Bump N' Drive gate?* [Video]. Retrieved from <https://youtu.be/mqFYTv6ILIM>
- CARiD. *Voyager Backup Cameras, Monitors, Systems & Parts* [Image]. Retrieved from <https://www.carid.com/images/voyager/pages/top-gallery/heavy-duty-waterproof-observation-system.jpg>
- Coach Lift. *Farming and Construction- Tractor Lift* [Video]. Retrieved from <https://www.coachlift.com/farm-lift/>
- Dakotamicro. (2010). *AgCam Summer 2010- John Deere Round Baler* [Video]. Retrieved from <https://youtu.be/x8vwogvl4EU>
- Disability Work Tools. (2014). *Skid loader porch front* [Video]. Retrieved from <https://youtu.be/1VQ8xp-xBS4>
- Disability Work Tools. (2017). *Spring Loaded Step* [Video]. Retrieved from <https://youtu.be/7JPMVQ9chLQ>
- Disability Work Tools. *Loader Bucket Step* [Image]. Retrieved from https://2adv7m3a3hapkt44a2r98msr-wpengine.netdna-ssl.com/wp-content/uploads/2019/04/bucket_1.jpg
- Disability Work Tools. *Step John Deere Tractor* [Image]. Retrieved from https://cdn.shortpixel.ai/client/q_lossless,ret_img,w_600,h_600/https://disabilityworkconsulting.com/wp-content/uploads/2019/04/jd_step_before.jpg
- DIY Trade. *Cow milking Parlor mat* [Image]. Retrieved from https://img.diytrade.com/cdimg/951959/10247437/0/1251351055/Cow_milking_Parlor_mat.jpg
- Ecklund Drive Thru Gates. *Ecklund Drive Thru Gates* [Image]. Retrieved from <https://lh3.googleusercontent.com/proxy/wnT6w28JlfUsZPkCymyxxANmPwEH2QMzPg33L-bckSNddvEUKrxFXnbbFj9SIZDcyJU-TFAROFWCSd5f3Kd7wFWWclTwzPrZfFVI7qzYxqvmHBxJfzSi2yiw3-WClw>

Credits Cont.

FARM SHOW Magazine. (2010). *"Pistol Grip" Hydraulic Hose Handles* [Image]. Retrieved from https://www.farmshow.com/images/resize.php?w=300&img=/images/articles/34/5/10160_l.jpg

FARM SHOW. (2015). *Rear View Mirrors For Skid Loaders*, p. 17. Retrieved from https://www.farmshow.com/a_article.php?aid=28670

FARMRANCHSTORE. *Calf Cart with Scale* [Image]. Retrieved from https://images.squarespace-cdn.com/content/v1/5155b95fe4b0fc0d946557e2/1379690680445-QM4XGJV4MMV5VFCDF9KQ/ke17ZwdGBToddI8pDm48kOyctPanBqSdf7WQMpY1FsRZw-zPPgdn4jUwVcJE1ZvWQUxwkmyExglNqGp0lvTJZUJFbgE-7XRK3dMEBRBhUpwwQlrqN0bcqL_6-iJCOAA0qwytzcs0JTq1XS2aqVbyK6GtMIM7F0DGeOwCXa63_4k/calfincart_lg.jpg

FARMRANCHSTORE. *Rough Stock Arena Bow Gate* [Image]. Retrieved from https://images.squarespace-cdn.com/content/v1/5155b95fe4b0fc0d946557e2/1499966053447-TUH0PCR6LGHHIIT3F0DF/ke17ZwdGBToddI8pDm48kPBG1zPIIm3HksliPI2jFCE17gQa3H78H3Y0txjaiv_ofDoOvxcdMmMKkDsyUqMSsMWxHk725yiiHCCLfrh8O1z5QPOohDlaleljMHgDF5CVIOqpeNLcJ80NK65_fV7S1UQJVpUpTtffLds_zDAI74v9ibZ9vQsCpKQKfenTzNVyuM5AcYPAfDpeu_8_E2r3jw/RSABG109GY1.jpg?format=750w

Feed&Grain Magazine. *LevAlert Steel Bin Level Indicator* [Image]. Retrieved from http://fgcdn-c86c.kxcdn.com/images/uploads/_framed/levalert-steel-bin-level-indicator-650-823-041654a3c2cc397ee14befeac83204c1.png

Gempler's. *Canopy* [Image]. Retrieved from https://cdn.shopify.com/s/files/1/0073/1797/9225/products/19ML48_AA01_1800x1800.jpg?v=1553274887

Gempler's. *RZ Mask Environmental Mesh Dust Mask* [Image]. Retrieved from https://cdn.shopify.com/s/files/1/0073/1797/9225/products/G3375_01_1800x1800.jpg?v=1553281521

Gempler's. *RZ Mask Environmental Neoprene Dust Mask* [Image]. Retrieved from https://cdn.shopify.com/s/files/1/0073/1797/9225/products/G3357_03_1800x1800.jpg?v=1553281520

Great Day Inc. (2009). *Great Day's Power Loader* [Video]. Retrieved from <https://youtu.be/EhZA6120DH8>

Gyllenhaalfan, J. *Side Step Truck Great Day Steps Front Bumper Stubby* [Image]. Retrieved from <https://jakegyllenhaalfan.com/p/2019/11/side-step-truck-great-day-steps-ts300-lifestyle-jeep-wrangler-tj-front-bumper-stubby-liberty-rear-with-tire-carrier-renegade-winch-jk-rubicon-wk-light-bar-kk-off-road-back-iron-cross-1092x1432.jpg>

Hansen, M. (2017). *Rear view tractor camera* [Image]. Retrieved from <https://youtu.be/hW8KGz3qufk>

Hovest, R. (2011). *Remlinger Bale Slicer* [Video]. Retrieved from <https://youtu.be/50XUtCOBWSg>

K&M Manufacturing. *John Deere 6000-7000 Series Mirror* [Image]. Retrieved from <https://www.tractorseats.com/images/product/large/395.jpg>

K&M Manufacturing. *KM Seat & Air Suspension* [Image]. Retrieved from <https://www.tractorseats.com/images/product/large/1024.jpg>

Credits Cont.

- K&M Manufacturing. *KM136 Uni Pro Seat & Air/Mechanical Suspension* [Image]. Retrieved from <https://www.tractorseats.com/images/product/large/1087.jpg>
- Karrn Cares. (2012). *Skid Loader Transfer for persons in wheelchairs* [Video]. Retrieved from <https://www.youtube.com/watch?v=OUmFL-LbGQM>
- Kinder World. (2018). *Mother Cow Protects Baby Calf, Attacks Dairy Farmer* [Video]. Retrieved from <https://youtu.be/L9WQaxr3lrA>
- Koehn Marketing, Inc. *Drive Through Electric Gates* [Image]. Retrieved from https://www.koehnmarketing.com/image/cache/catalog/Products/gate_650x250-500x500.jpg
- Lakeland Farm and Ranch. *Push and Drive over gate* [Image]. Retrieved from https://www.lakelandfarmandranch.com/wp-content/uploads/2018/03/pushndrive_2.jpg
- Lensing, P. (2013). *The Tailgate Ladder* [Video]. Retrieved from <https://youtu.be/5Ly8gVj31CQ>
- Northern Tool & Equipment. *AIRHAWK Comfort Cushioned Seating System* [Image]. Retrieved from https://www.northerntool.com/images/product/400x400/174/174005_400x400.jpg
- Northern Tool. *John Deere Tractor Step and Handrail Kit* [Image]. Retrieved from https://www.northerntool.com/images/product/400x400/216/21619_1_400x400.jpg
- Ovink, W. (2015). *Goliath Ride Over Gate* [Video]. Retrieved from <https://youtu.be/WISC51G4wdk>
- Pinterest. *5 Prong Ice Grip for Canes* [Image]. Retrieved from <https://i.pinimg.com/564x/16/67/f5/1667f5d223cb77c0d65ebe80f06d9472.jpg>
- Pinterest. *life essentials lifts* [Image]. Retrieved from <https://i.pinimg.com/564x/c3/bd/ca/c3bdca4f26761389c8c3f645c33ca1ec.jpg>
- QC Supply. *LevALERT Grain Level Indicator* [Image]. Retrieved from https://media.qcsupply.com/media/catalog/product/cache/1ea8695a80ddf05fd83621e0128e54b2/3/1/312037_2.jpg
- Raczynski Sales. *LevALERT Bin Level Indicators* [Image]. Retrieved from https://www.grainsystems.ca/images/levelalert/bin_level_indicator2.jpg
- Remlinger. *PFM Series 600 Bale Slicer Remlinger* [Image]. Retrieved from <https://www.remlinger-mfg.com/wp-content/uploads/2019/01/baleSlicer-1.jpg>
- Rural King. *K and M Mfg International Harvester 88 Series Left Hand Tractor Cab Step Kit 3333* [Image]. Retrieved from https://www.ruralking.com/media/catalog/product/cache/42187d0e88869b8d3e32e3ab9ae41fff/k/m/km_ih_88_series_lh_tractor_cab_step_kit_3333.jpg
- Rural King. *Tarter 8 foot economy panel with 4 foot walk thru arch gate* [Image]. Retrieved from https://www.ruralking.com/media/catalog/product/cache/85a2ff1fd26a63a70fc941a4bb756a97/a/f/af869fb15fd24323645437c5ea5e0eaac2bb0da7_130711895_130711895_image_130711895.jpg

Credits Cont.

- Safety Care. *Yaktrax Ice Walkers* [Image]. Retrieved from <https://www.safetycare.ie/image/cache/catalog///yaktrax-walker-500x500-228x228.png>
- Shortline Ag, Inc. *Bin Lids & Reducers* [Image]. Retrieved from https://lh3.googleusercontent.com/proxy/H94F1NenzcTBnGzo5evCDhvcqCDnGWJ_bjzSrdl-VVYImDgnm78YHQBw4Gn6neWbtZSY6TiKM7CoDfQU
- Shoup. *Hydra Grip* [Image]. Retrieved from <https://www.shoupparts.com/uploadedImages/Products/Hydra%20Grip%202.gif>
- Silo Sealing Waterproofing. *Safe, ground operated action* [Image]. Retrieved from <http://silosealing.com.au/wp-content/uploads/2010/10/DSCF2215.jpg>
- Silo Sealing Waterproofing. *Silo Safe lid openers* [Image]. Retrieved from <http://silosealing.com.au/wp-content/uploads/2017/12/lidopener-600x450.jpg>
- Thomson Linear. *Quick Attach* [Image]. Retrieved from https://www.thomsonlinear.com/micro/moh_eng/img/quick-attach.jpg
- Tough-T MFG. *Tough-T Grain bin lid opener* [Image]. Retrieved from <http://www.tough-t.com/ezCover/img/bintop4.jpg>
- Tractor PTO Link. (2018). *Animation & Story* [Video]. Retrieved from <https://www.youtube.com/watch?v=PmJAYGfcksA>
- Trentco Innoventions. *Before and After Pro Handle* [Image]. Retrieved from <http://www.prohandle.com/images/how-anima.gif>
- VH Mfg, Inc. *Calf Corral* [Image]. Retrieved from http://www.calfid.com/calfcorral/gallery/pictures/calf_corral1.jpg
- VH MFG, Inc. *Extended Length Hitch for Utility ATV's* [Image]. Retrieved from <http://www.calfid.com/calfcorral/gallery/pictures/Utility5.jpg>
- Washburn Company. *Custom Built 12 V HD Linear Actuator Skidsteer Blank Back, Any hook up* [Image]. Retrieved from <https://hayspear.com/custom-built-12v-hd-linear-actuator-skidsteer-blank-back-any-hook-up>
- Western Saddle. *Mighty Mule Gate Opener* [Image]. Retrieved from <https://electricfarmgateopeners.homestead.com/FM200-ls.jpg>
- Woods Equipment. (2018). *Woods PTO Assist Lift* [Video]. Retrieved from <https://youtu.be/P0n3k0PxxV4>
- Z399y. (2010). *Dropping off an empty wagon and hitching up a full one. Rush River, MN* [Video]. Retrieved from <https://www.youtube.com/watch?v=bKrBNgOZK6c>
- Zaire, I. *Calf Cart* [Image]. Retrieved from <https://image.slideserve.com/1400531/the-calf-cart-wee-n.jpg>