

Resource  
Magazine's

**OUTSTANDING  
INNOVATIONS  
2004**



Oxbo International Corporation, Patent Owner  
Exhibit 2010  
H&S Manufacturing Company, Inc. v. Oxbo  
International Corporation  
IPR2016-00950

# AE50 2004

Products winning the 2004 AE50 awards represent the best and the brightest developed throughout the world for the agricultural, food, and biological systems industries.

The innovations highlighted in this issue were chosen from numerous entries in the competition sponsored by *Resource*. The judges who chose the winners represent all factions of the agricultural, food, biological, and related systems engineering professions. The expert panel selected the best of products first introduced to the marketplace during 2003. These products are expected to save producers time, costs, and labor while improving user safety.

Problem solving is a major goal in designs whether one is developing a better way to spread manure, water a golf course, or monitor weather conditions. Environmental concerns must also be factored in while keeping production and operating costs low.

The annual AE50 program has been honoring engineering achievements for more than a decade. Past winners include companies of all sizes throughout the world.

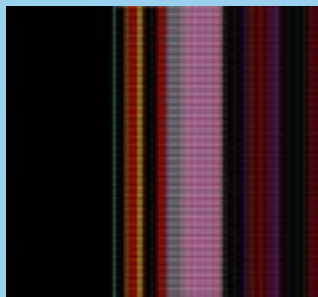
Many of the new ideas are patented and their names trademarked. Some may become household words in the future. Others will be improved upon as technology advances.

From improved tractors and implements to computer software and high-tech electronic measuring devices, the 2004 AE50 winners cover a gamut of devices.

The AE50 is the only awards program of its kind to reward companies for developments in specific areas of agricultural, food, and biological systems.

For information on how to enter next year's competition, please contact Sandy Rutter at 269-429-0300 ext. 345 or [rutter@asae.org](mailto:rutter@asae.org).

Information on the AE50 and *Resource* magazine is also available on the ASAE Web site at [www.asae.org](http://www.asae.org).



## ● Pow'r Trak finely shreds



The Flory Model WS900 Pow'r Trak shredder is a self-propelled, rubber-tracked hammer mill developed to effectively shred orchard prunings as large as 100 millimeters (4 inches) in diameter. Friendly to the environment and the grower, this machine eliminates the necessity of burning prunings and monitoring agricultural burn days, thereby contributing to cleaner air. The resulting finely shredded material remains on the orchard floor where it decomposes, promoting healthier soil. The front-feed design eliminates driving over prunings, and the rubber-track drive allows continuous operation in all weather conditions. Features include a fuel-efficient 425-horsepower

Caterpillar engine, automatic reversing engine fan to keep radiator clean, and low ground compaction. Other user conveniences include the "Comfort Cab," which is both heated and cooled for the comfort of the operator; hydrostatic drive for smooth variable speed control; and easily replaceable shredding hammers and cutting inserts.

**Flory Industries**, Salida, California USA; 209-545-1167, [www.FloryIndustries.com](http://www.FloryIndustries.com)

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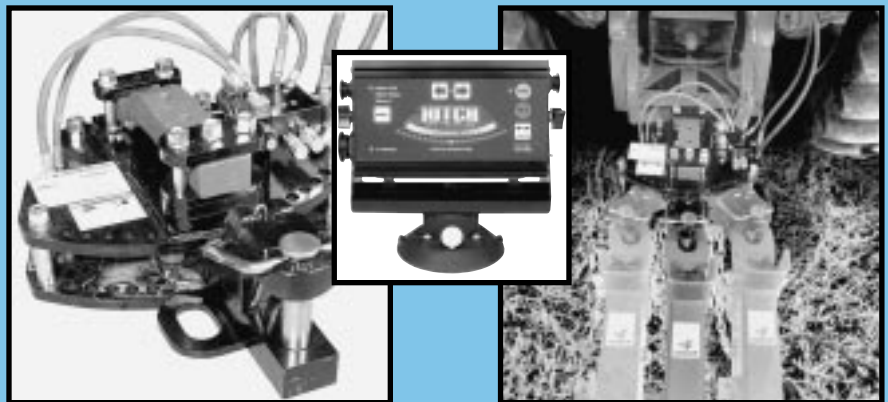
INNOVATIONS 2004

## ● Outback® Hitch gives automatic, instant correction

Outback® Hitch is an automatic drawbar hitch attachment which receives and responds to GPS guideline information. It automatically and instantly corrects inadvertent driving error. Even if the tractor is not following the GPS guideline, Outback® Hitch seeks to place the hitch pin directly over the guideline. In addition, Outback® Hitch has a "Match Tracks" mode which seeks to match the implement track

lines to the tractor tracks when operating in curves and hillsides. For example, when side-dressing standing crop, "match tracks" will allow the driver to follow rows with the tractor and be confident his implement is also tracking the same rows without damaging crop.

**RHS, Inc.**, Hiawatha, Kansas USA; 800-247-3808, [www.outbackguidance.com](http://www.outbackguidance.com)



## ● Square Baler performs with top auger pickup



This large, square baler with pre-cutter option has significant performance and capacity improvements with newly designed top auger pickup. The full-width, cross-top auger takes control of the crop in most hay and straw baling conditions as crop is transferred from the pickup reel. It allows large, low-density crops, such as straw, to move quickly from the outside of the pickup into the narrow center feed area of the baler. This powered auger also helps higher-density crops with greater friction (like hay silage) to move across the pickup. It adds additional power to feed the crop into the baler quickly and smoothly. Because the crop is moved into the baler more uniformly, other feeding elements behind the pickup perform more efficiently. The pre-cutter baler performance has been improved considerably through these synergies with the addition of the top auger to the pickup.

**AGCO Corp.**, Duluth, Georgia USA;  
770-813-9200, [www.agcocorp.com](http://www.agcocorp.com)

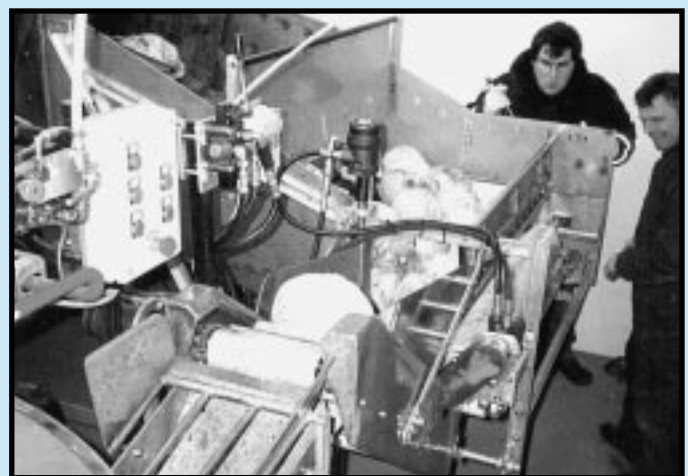
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## ● The Olden Cabbage Trimmer triples output

The Olden Cabbage Trimmer eliminates all hard, manual labor and triples output per man-hour. Cabbages are delivered on the carousel, where the stalks are cut and necessary leaves removed. This is followed by an inspection, after which the cabbages are automatically placed in marketing crates. The Olden Cabbage Trimmer is made of stainless steel and hot-galvanized mill steel. All functions are hydraulically powered and all speeds are infinitely adjustable. A pneumatic adjustable system blows off desired quantity of leaves and holds the heads in place during operations. Electronics are used to operate the hydraulic system and to regulate the flow of cabbages, the level of filling in marketing crates, and the monitoring of safety systems. The unique combination of known techniques combined with the innovative carousel and lifting/turning mechanism has made a successful automatic cabbage trimmer. Electric power supply: 7.5 kilowatt (10 horsepower). Air supply at 10 atmosphere bar (14.5 pounds per square inch), 1.4 cubic meter (50 cubic feet) per minute.



**Olden Maskinfabrik ApS**, Houvej 139, 9370 Hals, Denmark; +45-9825-4866, [www.olden-maskinfabrik.dk](http://www.olden-maskinfabrik.dk)

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## ● Solar Mini-Pivot System reduces energy and water consumption



Greenfield Irrigation Systems, developed by Lindsay Manufacturing, are leaders in intelligent water utilization focused specifically on high-value crops such as vegetables, hay, alfalfa, small grains, and turf grown on fields that are less than 32 hectares (80 acres) in size. The principal uses for the Greenfield Solar Mini Pivot are in crop areas that do not have developed rural electrical power, areas where the cost to run electrical power is prohibitive, and areas set aside for environmental conservation of electricity and fuel. This solar-powered machine is as full-featured and capable as its single and three-phase AC counterparts, therefore providing significant potential for underdeveloped countries. No special tools or heavy machinery are needed to erect the equipment, and it is simple and easy to use requiring no special skills for

operation. The Greenfield Solar Pivot System reduces energy and water consumption over non-pivot irrigation systems and improves yields as well.

Lindsay Manufacturing Co., Omaha, Nebraska USA; 800-829-5300,  
[www.lindsaymanufacturing.com/default\\_greenfield.asp](http://www.lindsaymanufacturing.com/default_greenfield.asp)

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## ● 200 V/P Series supplies specialty market with high technology and comfort

AGCO Corp.'s FENDT® 200 V/P Series 50-80 horsepower, 2WD or 4WD, cab or foldable ROPS brings high technology and comfort to the specialty, orchard, and vineyard tractor market. Operators are comfortable and in control with up to six mid-mount and rear electrohydraulic SCVs with flow controls for 73.8 liters (19.5 gallons) per minute, shock-load stabilizing, and patented side-shift and tilt adjustment three-point hitch controls – all located on the right console. A Tier 2 engine powers 540/540Economy/1,000 rpm rear PTO speeds and optional 1,000 rpm front PTO for front three-point hitch work. Push-button automatic 4WD and differential locks with a tight 58-degree turning angle make the compact series nimble in tight areas.

AGCO Corp., Duluth, Georgia USA; 800-767-3221, [www.fendt.com/index\\_US.html](http://www.fendt.com/index_US.html)



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