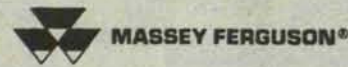


# AGCO POWER IN MICHIGAN

A SUPPLEMENT TO MICHIGAN FARM NEWS

March 30, 1997



## Massey Ferguson celebrates 150 years of service to the world of agriculture

Massey Ferguson is observing its 150<sup>th</sup> anniversary in 1997 – an achievement never envisioned by Daniel Massey when he opened his small machine shop in 1847 and began manufacturing farm implements.



so great that the company established factories in France and Germany to meet the increased demand.

In 1938, Massey-Harris introduced the world's first commercially available self-propelled combine harvester – the Self-Propelled No. 20. This new and revolutionary combine required only one man to operate it, freed a tractor for other work, opened the field without running down the crop, moved at speeds up to four miles an hour, and reaped, threshed and delivered a stream of grain from its elevated delivery spout in a single continuous automatic operation.

Today, Massey Ferguson is one of the biggest names in farm equipment. MF products are sold in more than 140 countries of the world.

Massey Ferguson tractors are the world's best-selling brand and the company has achieved this leadership role in tractor sales for the past 34 consecutive years. 1997 promises to be its 35<sup>th</sup> record-setting year.

Massey began to expand into global markets in the 1860s when its harvesting equipment was awarded First Grand Prize in field trials at the International Exposition in Paris, France. As a result, the Massey company began receiving orders from export markets in Europe well in advance of other North American manufacturers.

In 1891, the Massey Mfg. Co. and A. Harris, Son & Co., the two most successful agricultural companies in Canada, merged to form Massey-Harris Company Limited, and pursued a vigorous growth policy. By 1908, at least 48 percent of the company's sales were in foreign markets.

Following the end of World War I, a new era began as the tractor became recognized as a more economical form of power than the horse and, when used in conjunction with the reaper-thresher or combine, reduced by half the cost of harvesting and threshing.

Massey-Harris contributed to this new era of agriculture with its first gasoline-powered tractor in 1917, and continued to design and produce a line of productive and efficient tractors. In the 1930s, Massey-Harris introduced a four-wheel-drive tractor, a common sight on farms today, but ahead of its time in that era.

By the mid-1920s, the market for Massey Harris reaper threshers and mowers in Europe had become

The company followed this achievement with the No. 21 Self-Propelled Combine, a more efficient machine that proved its economy of operation during the Second World War when, to meet the need to feed the armed forces of the U.S. and Canada and their civilian populations, 500 Massey-Harris machines combined 1,019,500 acres, saved over 300,000 man hours and 500,000 gallons of fuel, and harvested over 25,000,000 bushels of grain, vegetables and other crops.

In 1945, to meet the growing demand for its products outside North America, the company began production at a factory in Manchester, England.

Massey-Harris and Harry Ferguson Limited of Coventry, England, merged in 1953 to become Massey-Harris-Ferguson Limited. The company name was shortened to Massey Ferguson in 1958. This merger gave Massey-Harris access to the revolutionary Ferguson System of tractor weight transfer with ground-engaging implements, making it possible for small, lightweight tractors to achieve the performance of machines twice their size.

Today, the majority of all tractors made in the world utilize this principle of weight transfer for increased power and traction, and the Coventry plant is the world's largest facility devoted solely to the production of tractors. More than three million tractors have been manufactured there since 1946.

In the 1980s, Massey Ferguson pioneered tractor electronics, introducing its exclusive Electronic Linkage Control for more precise and smoother control of three-point mounted and semi-mounted implements.

Massey Ferguson then introduced its exclusive Autotronic System of electronic control of many trac-

tor functions. Sensors provide direct automatic control of various transmission, PTO, four-wheel-drive, differential lock and hydraulic functions to relieve the operator of tiring, constant supervision, and the possibility of making errors or misjudgments.

At the same time, the exclusive MF Datatronic System was introduced. This automated system provides automatic wheelslip control combined with a wide range of information about the tractor's performance, which the operator can use to adjust operating techniques for maximum efficiency and productivity at minimum cost.

Massey Ferguson began development of a yield-monitoring system for MF combines in Europe in the 1980s, and by 1992 introduced combines with optional yield meters operating in sync with the Global Positioning System, making it possible to map yields in a field while harvesting.

AGCO Corporation, which became Massey Ferguson's parent company in 1994, is now preparing to introduce the FIELDSTAR advanced precision farming system in North America, based on MF's pioneering research and development in Europe.

The FIELDSTAR system will record yield information in the combine cab, produce yield and field application maps in the farm office, and control tractor-mounted implements for cultivation, seeding and fertilizer applications. Farmers using the FIELDSTAR system can match crop inputs to yield to improve profitability and reduce waste. The FIELDSTAR system is currently being tested on GLEAMER and Massey Ferguson combines in North America.

AGCO Corporation, headquartered in Duluth, Georgia, is one of the world's largest and most innovative manufacturers and distributors of agricultural equipment and replacement parts. AGCO offers a full product line of tractors, combines, hay tools, forage equipment and implements distributed under 13 product brands well-known to the farming industry for their productivity and reliability. The products are marketed through more than 7,000 independent dealers and distributors around the world.

AGCO's products are distributed under the brand names AGCO®Allis, Massey Ferguson®, Heston®, White, GLEANER®, White-New®Idea, SAME, Black Machine, AGCOSTAR™, Landini, Tye® Farmhand®, and Glencoe®. AGCO also provides retail financing through its Agricredit subsidiary in North America and through its Massey Ferguson Finance joint ventures in the U.K., France and Germany. In 1995 AGCO had sales of approximately \$2.1 billion.

### White combines planter and drill features in unique planting system

White offers the new 6800 Series Central Fill Planter, the latest in conservation and no-till planting technology. The 6800 Series replaces the no-till planter and no-till drill with one unit that does a superior job of performing both functions.

"The combination of seed placement accuracy, depth control and narrow row spacing in the 6800 Series is a concept that can significantly reduce your machinery investment and upkeep," says Randy Hoffman, general marketing manager, White Planters and Tillage.

The 6800 Series planters feature White's

proven row unit that singulates corn, soybeans and other seed for optimum placement in the seed trench at precise depths to increase yields. Excellent soil-to-seed contact is assured by a choice of planter row unit closing wheels.

The 6800 Series planters are available in two configurations with interplant capabilities providing 10-inch row spacing. Model 6818 offers six, 30" rows and 18, 10" rows while the larger 6824 offers eight rows with 24-row interplant capability. The unique rigid frame center fill planter positions row units at 30-inch row

widths for corn and 10-inch row widths for soybeans, wheat and other seeds.

The 6800 Series uses a microprocessor-controlled variable rate drive that offers infinite seeding rates. The ability to adjust the seeding rate on-the-go permits the operator to match seed population to the yield potential of the soil.

Other features include a 60-cu.-ft. central fill seed hopper with optional filling auger and pneumatic seed distribution system. An electronic monitoring system is standard equipment to keep the operator informed of critical planter functions.



MICHIGAN FARM BUREAU





# Improving drills the Tye way

## Tye 2000 NoTill Systems

For 1997, AGCO Tye has incorporated several new features in the 2000 NoTill Systems. "Tye has our farmer in mind when adding these new customer-requested changes," says Andy Anderson, Tye marketing manager. "We are offering him the most accurate and advanced NoTill System on the market complete with time saving and safety bonuses."

For superior seed placement, Tye has added heavier, 40 lb/in down pressure springs and smooth-sided EZ Adjust Press-wheels to the 2000 NoTill Systems. The pres-

sure on these springs can be quickly changed with three turnbuckle adjustments.

Tye's award-winning ADC2000 Automatic Depth Control option provides the operator with automatic seed depth control. The ADC2000 senses changes in the field surface and automatically adjusts the coulter depth for consistent seed placement in the seed track.

To save time and increase productivity, Tye has enlarged the grain box to hold 2.8 bu/ft or 323l/m. In addition to the larger grain box, the 2000 NoTill Systems feature a convenient 14"

wide fill opening, a new latchless rainguard lid, and a bin level indicator. The Tye grainbox is self-cleaning. For added safety, steps, hand-holds, lights, flashers, and towing safety chains are now standard equipment.

Also available for 1997 2000 NoTill Systems is an optional Electronic Drill Monitor. The new monitor provides in-cab monitoring of grain bin levels, seeder shaft operation, and field and total acreage covered.

These new features and options are available on the complete line of Tye 2000 NoTill Systems. Available row spacings on the 10', 15' and 20' NoTill Systems are 6", 7", 7.5", 8", and 10". The 2000 NoTill row units feature heavy-duty coulters with four blade choices and 13.5" double disc openers. Horsepower requirements are determined by drill width - approximately 7 hp/ft. Other options available are row markers, harrows, and legume boxes.

Tye Drills are manufactured at the Tye factory in Lockney, Texas. Tye is a division of AGCO, a global manufacturer and distributor of agricultural equipment and replacement parts.

### Rugged, Heavy-Duty NoTill System



- Double 6x4 coulter bar has HD swivel coulters with 14" stagger
- Coulters cut through heavy residue and soils to accurately prepare the seed track
- HydraLevel with dual depth control cylinders provides on-the-go coulter depth adjustment
- Exclusive Trac-Drive assures positive drive even in the toughest NoTill conditions
- Internal flute seeders gently and accurately meter seed without grinding or cracking

## Safety: AGCO introduces the R.O.P.S. Promotional Program for older Massey Ferguson Tractors

The AGCO Corporation, Massey Ferguson's parent company, is excited to introduce its new R.O.P.S. Promotional Program. The goal of the program is to make available rollover protective structures and seat belts for older Massey Ferguson agricultural and compact tractors.

"To promote R.O.P.S. and seat belts, AGCO is offering the safety equipment to all dealers at cost," says AGCO's CEO and Chairman Robert Ratliff. "We are also encouraging dealers to install the equipment at their cost."

The AGCO R.O.P.S. Program consists of three important parts. First, AGCO will make R.O.P.S. available to all AGCO dealers at cost. Second, AGCO will encourage dealers to provide and install the R.O.P.S. and seat belts at cost. Last, promotional and educational materials will be distributed to reinforce the safety benefits of R.O.P.S. to dealers and users.

The R.O.P.S. kit, which includes the seat belt and rollover protective structure, will fit the 51 Massey Ferguson tractor models listed below:

130	205	235 Orchard	265	294	1010	1100
135	205-4	240	270	298	1020	1105
150	210	245	274		130	1130
165	210-4	245 N & O	275	360	1040	1135
175	220	250	282	375 Low Profile	1080	1150
180	220-4	253	283	390 Low Profile	1085	1155
184	230	254	285	398 Low Profile		
	235	255	290	399 Low Profile		

AGCO believes that farm safety should be a top priority and responsibility of the manufacturer, dealer and operator. By promoting the installation of R.O.P.S. at cost, AGCO is making a responsible effort in advocating farm safety.

According to AGCO Product Safety Manager for tractors, Tony Fox, installing a R.O.P.S. together with wearing the seat belt provided is one of the most significant moves a farmer can make towards personal safety in operating a farm tractor. "Statistics gathered by the National Safety Council show

that side and rear rollovers account for 55 percent of tractor related injuries in the United States," says Mr. Fox. "We believe that this initiative from AGCO will aid in achieving the goal of reducing these injuries."

While the R.O.P.S. Program is designed to provide safer equipment for current users, AGCO works to promote the importance of farm safety to young children through programs like Farm Safety Day Camps and Farm Safety 4 Just Kids. AGCO also supports the National Safety Council.

## AGCO Tye® introduces the New Automatic Depth Control System for 2000 Series Drills and NoTills

The ADC 2000 provides on-the-go depth control by continually sensing the field surface, even in fields with widely varying soil conditions.

A ground-sensing gauge wheel, mounted strategically in the coulter operating plane, quickly reacts to field surface changes. Transmitting the information to a specially engineered solenoid control valve, the tractor's hydraulic system provides oil flow through the hydraulic depth control cylinders to adjust optimum coulter depth. This unique depth control technology

assures optimum seeding depth for the drill's double disc row units.

A cab-mounted control console provides the operator with complete control and override options for fields where surface and soil conditions vary dramatically.

The ADC 2000 is designed to fit the new family of Tye 2000 NoTill Systems plus the existing Series V NoTills. See your AGCO Tye dealer for more information or call the Tye NoTill Hotline at 800-444-4893 for technical specifications and availability.

## HOW TO SURVIVE IN A DEMANDING FIELD: GET A TYE

### TYE BEAN DRILLS

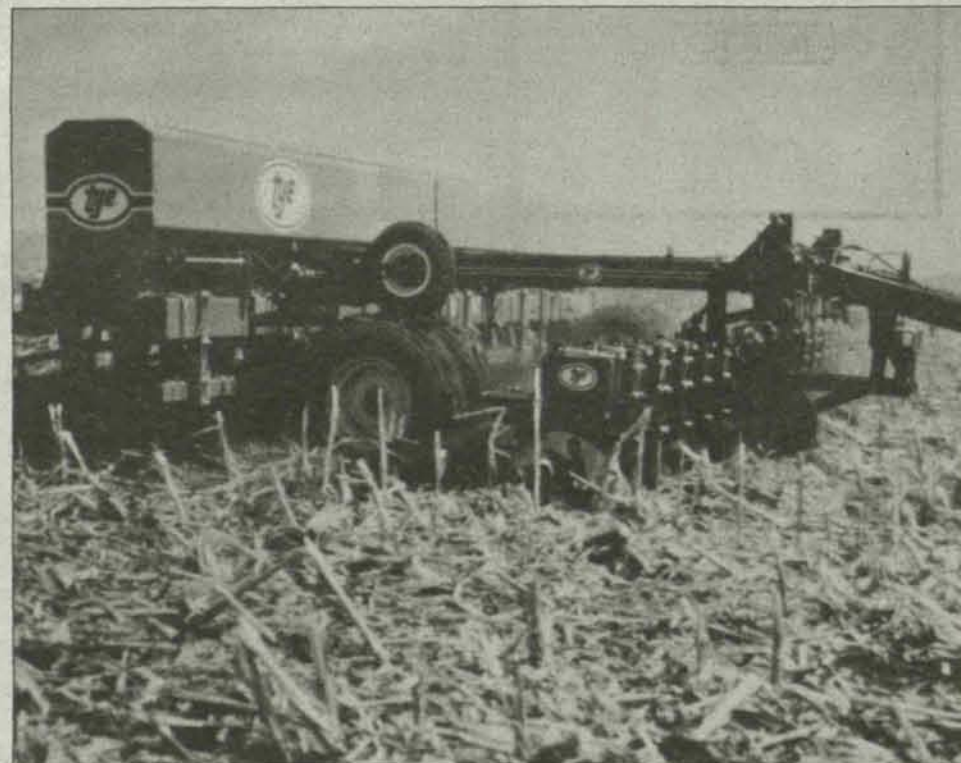
Delivering more perfect seed to the optimum soil environment at the fastest possible rate. This is what it takes to succeed in today's competitive environment. And Tye's state-of-the-art Bean Drill does just that with its exclu-

sive internal flute seeders for gentle, accurate metering, a new row unit design that delivers 7 1/2" row spacings and proven high speed capacity with planter accuracy. You'll cover more acres in a day with improved yield potential. And that's what survival is all about.



DIUBLE EQUIPMENT INC.  
Ann Arbor

NORTH CENTER FARM SUPPLY  
Armada







## **Farmhand provides greater visibility, increased maneuverability, and superior self-leveling performance with the introduction of the GL745 loader.**

"To improve visibility and maneuverability, Farmhand uses a low profile design that won't obstruct the operator's view and gives him the ability to move in and out of tight places," says Kevin Lund, marketing manager, Farmhand. "We are the only manufacturer to mount the optional, two-way hydraulic, self-leveling cylinders below the loader's arms to

give the operator fast, efficient leveling action."

The optional, field-installed, self-leveling system on the Farmhand GL745 is simple and trouble free. The 2-way hydraulic system automatically levels the attachment throughout the lift and lower cycles by moving oil to and from the self-leveling cylinders and the tilt cylinders.

Designed to fit up to 120 hp 2WD tractors and 90 hp FWA tractors, the Farmhand GL745 has a lift capacity of 3,100 pounds and a lift height of 11'8". The loader has a typical digging depth of 6", a 23° attachment rollback angle, and a 40° maximum dump angle.

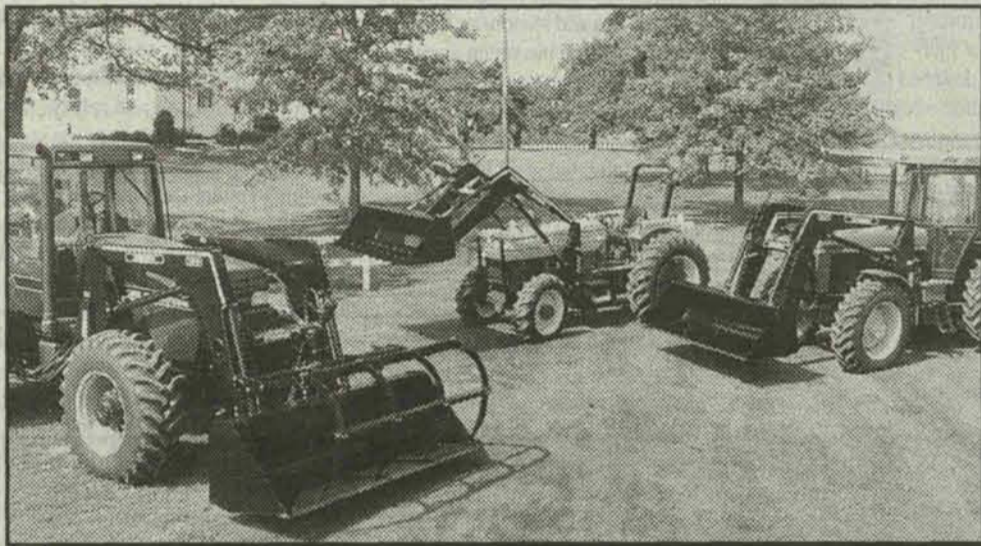
The Farmhand GL745 loaders come with

a standard Attachment Quick Coupler (AQC) for quick mounting of attachments. Optional attachments for the GL745 are pallet forks, combination buckets, heavy-duty buckets, single- and double-prong bale spears and manure forks.

Farmhand, a division of AGCO Corporation, markets a complete line of loaders, rotary cutters, grinding equipment, and rolling tillage.

### **FARMHAND® LOADERS**

## **EVERYONE'S A HARD WORKER!**



FARMHAND has loaders to fit tractors from 32 to 200 hp.



### **FARMHAND®**

4830 River Green Parkway  
Duluth, Georgia 30136

### **FARMHAND Family of Loaders**

- Complete line of loaders to fit the needs of today's producer.
- 2 and 22 Loaders are ideal for low GPM hydraulic pumps.
- GL520 Quick-Tach Loader mounts over 400 tractor models from 30-120 hp.
- 258 Loader fits most John Deere 75-150 hp 2WD tractors built since 1961.
- XL1140 Loader for 80-200 hp two-wheel drive or FWA tractors.
- XL1340 Loader lifts almost 2 tons to 16'.
- Plus additional models available to suit your needs.

**CARLETON FARM SUPPLY**  
Carleton

**DAN'S FARM SUPPLY, INC.**  
Adrian

**DIUBLE EQUIPMENT INCORPORATED**  
Ann Arbor

**HENGESBACH TRACTOR SALES**  
Portland

**HOFFERBERT SALES INC.**  
Bannister

**HUNT'S AG SUPPLIES, INC.**  
Hesperia

**MCCONNELL FARM SUPPLY INC.**  
Rosebush

**SYMONS TRACTOR & EQUIPMENT**  
Gaines



## Improvements for 1996 increase efficiency and productivity of White tractors



"With the new ELC, it is now possible to maintain consistent working depths, raising and lowering speeds and maximum height. The convenient control locations make hooking up implements much easier and more efficient for the operator," says Harlan Schwertfeger, AGCO sales engineer for White tractors. "The electronic three-point offers our customers the opportunity to use their time and their machinery in the most effective manner."

Also new for 1996

White has made new technological improvements on the 6100 and 6200 Series Powershift Tractors to increase their customers' productivity and field capabilities.

White introduced the addition of the electronic three-point lift control (ELC) system to the 1996 models. The new ELC provides easy, efficient control of three-point hitch attached implements. Controls for the ELC are located on the right hand console, the seat-mounted console and both rear fenders.

models is the Sculptured Engine Frame, designed for White 6175 PFA, 6195 and 6215 Workhorse Powershift Tractors. The new frame profile is sculpted inward four inches, adjacent to each side of the engine and ahead of the radiator, increasing the front tire turn angle when wheels are set at the narrow front tread adjustment.

"With the introduction of the Sculptured Frame on our three largest models, we now boast a turning radius that is one of the smallest in the

industry," says Steve Reiling, AGCO general marketing manager for White tractors. "With no alterations at all, the 6125 and 6145, as well as the 6124 and 6144 QuadraShift® models, feature a turning radius that is already shorter than most competitive models. Now we're in the same category with our

high-horsepower models. Most importantly, we've been able to maintain the integrity of our proven one-piece 'bathtub' frame. As a result, our customers now have the best of both worlds — solid construction and a reduced turning radius that saves time at endrows and headlands."

## A new utility tractor and new loader line add versatility to White tractor line

Already boasting an extensive line of mid-size and higher horsepower tractors, White is expanding their overall line-up by adding a utility tractor and full line of loader models.

A utility tractor with a low overall dimension, the White Model 6045 offers the features operators demand for grain, hay, and livestock operations, as well as for light industrial and commercial uses such as landscaping and mowing.

"Like the Model 6065 and the 6085 which have been field-proven for nearly three years now, the new Model 6045 offers such standard-equipment features as a synchronized transmission, planetary final drives, radial tires, hydrostatic power steering, mechanical differential lock and responsive hydraulics," says Steve Reiling, general marketing manager for White tractors.

The White 6045 is powered by a three-cylinder, naturally aspirated, 183 cubic inch (3.00 liter) diesel engine rated at 45 PTO horsepower. The advanced engine design features individual cylinder heads with swirl induction intake design. The 1000 Series engine offers modular design, longer life and easier servicing. Individually immersed injection pumps, mounted in the engine block, are operated by the camshaft for precise, fuel-efficient engine operation.

Two transmission options are available on the 6045. Both have a synchronized four-speed gearbox and synchronized forward-reverse shuttle shifting that allow the operator to make gear changes on-the-go. The standard 12F x 12R and the optional 16F x 8R transmission offer a wide selection of working speeds for all types of situations.

The new 6045 features a comfortable straddle mount chassis design and is available with two-wheel drive or a power-front-axle. The transmission, three-point hitch and hydraulic controls are at the driver's right and the two-post ROPS mounts to the rear axles providing a spacious, uncluttered platform.

Other features found on the new 6045 include the independent 540 rpm PTO, a high-capacity hydraulic system, power steering and wet disc brakes.

"With features and technology frequently offered only on larger models, the new Model

6045 not only represents a good value to the customer," Reiling says, "but it reinforces AGCO's commitment to support and expand the quality White product line for our dealers and customers."

### New White Loaders

The White 6045 is not the only new addition to the White tractor line. White has also introduced five new loader models, specially designed to fit the current lineup of White tractors and add versatility and productivity to any size operation. They include Models 656, 676, 676SL, 686, 686SL, and 696.

All five models feature heavy duty, box-frame construction and rely on the latest in manufacturing technology for strength and durability. They also feature a new sub-frame attaching system that minimizes interference with tractor serviceability and maneuverability.

A quick attach design and a built-in stand make the new line of White loaders easy to remove and reattach in a matter of minutes. Models equipped with the optional joystick remote valve also include a patented coupler kit that lets you quickly couple and uncouple the hydraulic hoses as a unit. On models without the optional joystick control, the operator simply attaches the hoses to the tractor remote valves.

Available attachments include heavy duty material and manure buckets, a grapple fork, bale spear and pallet forks.



# Burnips

## EQUIPMENT CO., INC.

### BURNIPS USED TRACTORS

#### AGCO

MF 35  
MF 40  
MF 1805  
White 2-135  
White 2-155  
White 4-210  
Deutz 4006  
Deutz Allis 9130 4WD  
AC B w/ plow  
AC CA w/ tools  
AC 170 gas w/ loader  
AC 8050

#### Misc.

Kubota B7100 DT  
Kubota L2850 4WD  
Kubota L245 DT  
Belarus 825 4WD w/loader

#### Skid Steer

NH L553  
NH L555  
NH L775 Deutz diesel  
NH L779 diesel  
NH L785 diesel  
Hydra Mac 1600  
Case 1845 C



#### Ford-New Holland

(2) 8N  
8N w/ loader  
Jubilee w/ loader  
800 diesel  
800 gas  
901 narrow front  
901 wide front  
2600 diesel w/ loader  
3000 gas  
1220 w/ belly mower  
1720 w/ loader & backhoe  
1910 w/ loader  
(7) 3415 300-500 hrs.  
2810  
4610 w/ cab, air  
5600  
6600  
6600 w/ loader  
9600 w/ cab  
9030 bi-directional  
TW 10 w/ cab  
TW 30 4WD  
340A tractor loader  
545D 4WD tractor loader 110 hrs.  
545D 4WD tractor loader 280 hrs.  
7700 cab  
555C tractor loader backhoe

#### Ford New Holland Continued

555D tractor loader backhoe  
555B tractor loader  
8670 Genesis 400 hrs.  
8770 4WD 375 hrs.  
8770 4WD 800 hrs.  
8770 4WD 1000 hrs.  
8870 4WD 540 hrs.

#### John Deere

750 w/ belly mower  
2440 w/ loader  
2840 w/ cab  
440 tractor loader backhoe  
2010 gas  
350 dozer 6-way blade  
420 w/ 3 pt.  
4000 Synchro

#### Case IH

Farmall cab  
Farmall 340 w/loader  
David Brown 990 w/ loader  
Case 2390  
Case DC  
CIH 7140, 106 hrs.

Burnips Equipment Company  
3260 142nd  
Dorr, Michigan 49323  
616-896-9190

Burnips Equipment Company  
18612 Northland Drive  
Big Rapids, Michigan 49307  
616-592-1200

## H.F.S. TRACTOR

### Sales & Service



White 6200 Series



White 6000 Series

8644 Stevensville - Baroda Road  
Baroda, MI 49101  
(1/4 Mile North of Baroda)  
616-422-1753

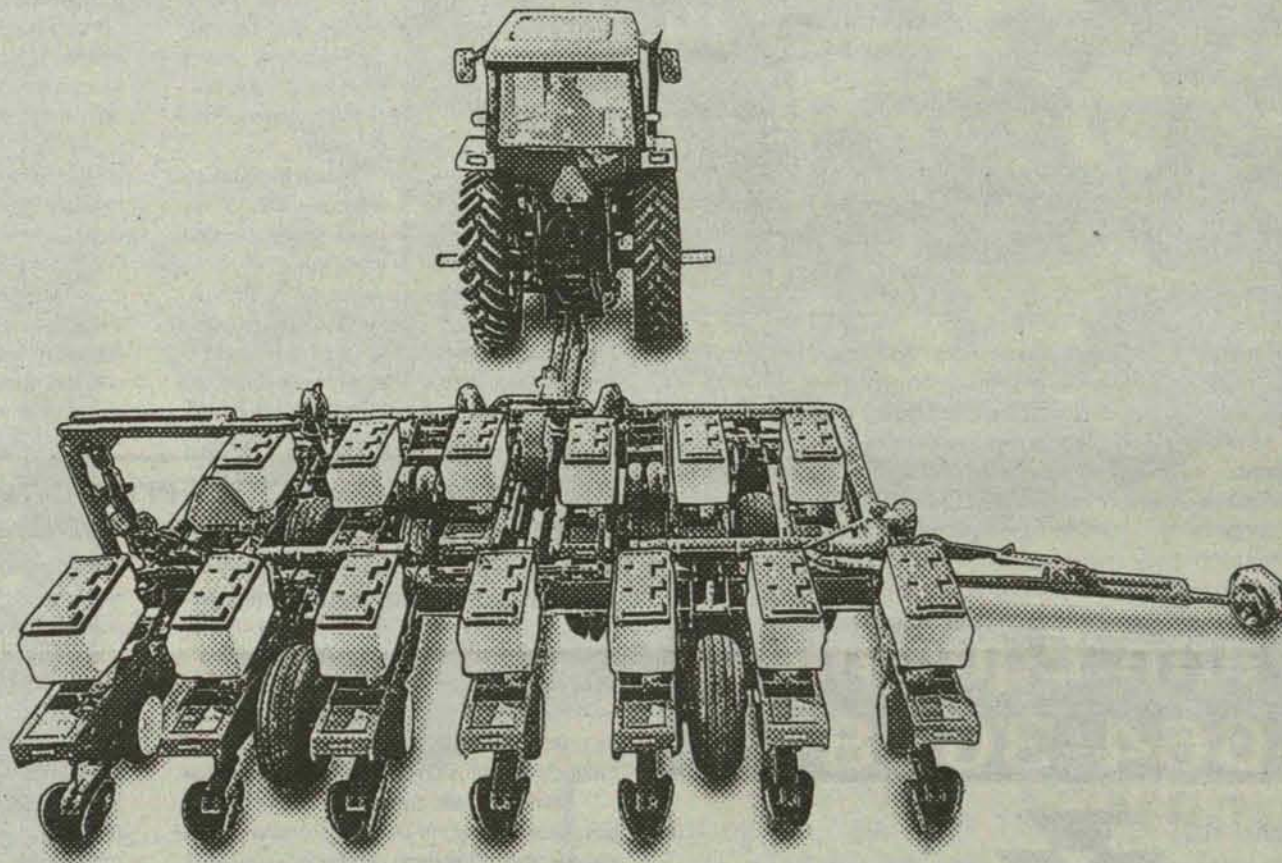


1216 S. 11th St.  
Niles, MI 49120  
(across from McDonald's)  
616-683-7272





# Farmers used to say, "There aren't enough hours in the day."



## Then White introduced its 6200/6300 Series Planters.

■ 12/13 Row Rigid

■ 12/13 Row Flex

■ 16/17 Row Flex

Now farmers talk about how they can plant 30-inch rows of corn and, in a flash, fold the patented hydraulic frame to precision-plant 15-inch rows of soybeans. They say they've finally found the planter that can reduce changeover time between crops. They remark about its unique air metering system, which promises accurate, gentle seed placement. They note how quickly and easily it

prepares for transport to other fields. And they stand amazed at how – whether conventional, mulch-till, min-till or no-till – the 6200/6300 series planters have the rock-solid mainframe to get the job done ... well before the sun goes down.

Stop by your AGCO White dealer and find out how the 6200/6300 series planters can help you get the most out of your planting system.

**DAMM'S INC.**  
Pigeon

**DIUBLE EQUIPMENT INC.**  
Ann Arbor

**G&L FARM & LAWN EQUIPMENT**  
Quincy

**HEINDL IMPLEMENT SALES, INC.**  
Reese

**HOFFERBERT SALES INC.**  
Bannister

**MC CORMICK EQUIPMENT, CO.**  
Portland

**NORTH CENTER FARM SUPPLY**  
Armada

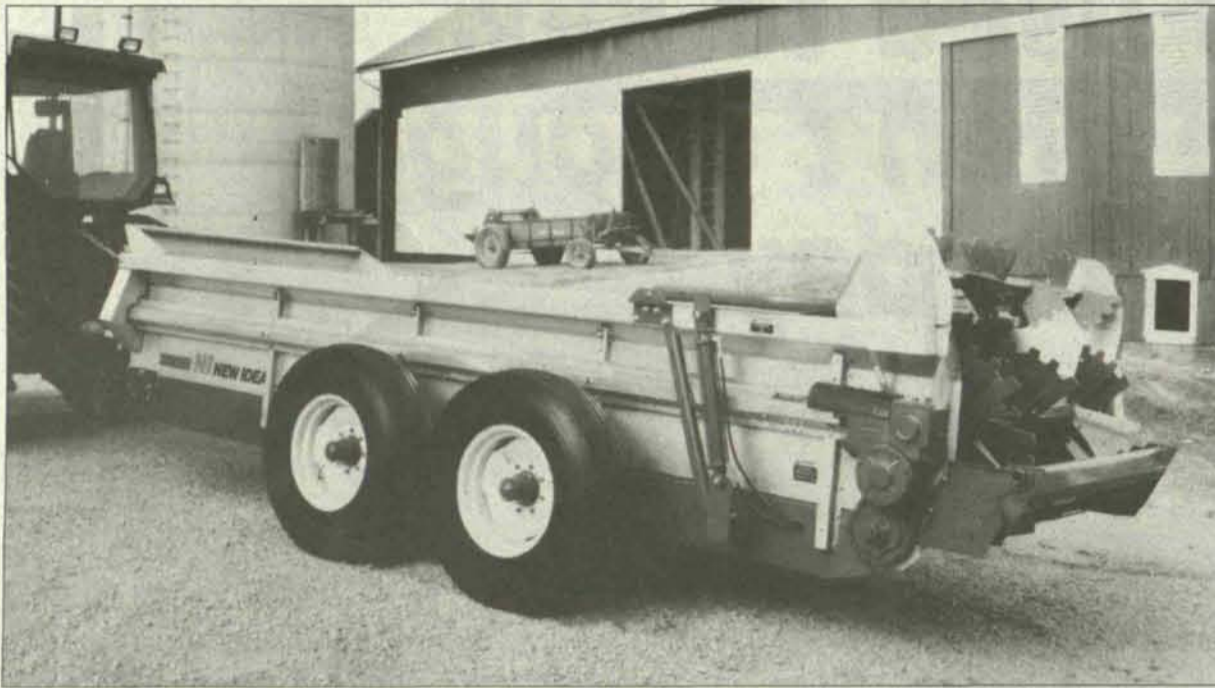
**PELL'S FARM SERVICE**  
Fremont

**WHITE**





## New Idea engineers state-of-the-art spreader line



Continuing the tradition of innovative engineering and long lasting design, the new 3700 Series Box Spreaders by New Idea® offer the features and options producers demand to customize their waste management programs.

"With eight different sizes to choose from, including the new 430-bushel model 3743, operators can choose the exact size they need for their operation," says Randy Hoffman, AGCO general marketing

manager for New Idea. "And because New Idea offers an extensive line of options, our customers are assured of getting a spreader that matches their waste management program perfectly."

New for the 3700 Series, the optional hydraulic conveyor drive provides the operator with a choice of speeds ranging from 0 to 8.4 feet-per-minute on Models 3726-3739 and 0 to 7.1 feet-per-minute on Model 3743. Available on the four largest

models, this option provides the operator with an unloading rate to match any load, ground speed and application rate required.

Owners can further customize application rates by using a combination of two conveyor speeds and two slow-down options for a total of six conveyor rates. The standard application rate unloads at 8.4 feet per minute (4.4 feet per minute in low gear).

New Idea's optional features offer customers the flexibility needed to meet their specific requirements. The upper beater option helps

level the load and shred clumps to provide a wider, thinner layer during unloading. For operations which commonly handle sloppy manure, the hydraulic end-

gate and slurry pan reduce spills and improve distribution. Other options include a hydraulic gearbox control, slip clutch, heat treated paddle tips, front box extension and flotation tires.

New Idea spreaders are well-known for their quality and durability. "The rugged one-piece, welded tongue and frame provides the strength required for the heaviest loads. The one-piece sides are made of copper bearing steel with a culvert-grade galvanized coating so they won't rust or leak," says Craig Hoskinson, AGCO sales engineer for New Idea. "We also use a one-piece, seven-ply, fir veneer floor coated with polyethylene to resist manure acids and stay slick. Our posi-lock conveyor chain is one of the strongest available with a 17,000 pound minimum tensile strength and the conveyor slats are corrosion-resistant rail steel to resist bending."

A truck-mount version of the four larger models (3726, 3732, 3739, and 3743) is available for dealers to mount to the customer's truck. A tandem axle truck is recommended for all models. The spreader gearbox is powered off the transmission PTO.

All New Idea box spreaders are backed by a full ten-year warranty against rot- and rust-through on the floor and sides. The gearbox and conveyor are covered by a two-year warranty. All other components are covered by a one-year warranty.

### AGCO New Idea 3600 Series offers options operators demand for customization

New Idea 3600 Series box spreaders feature options allowing the spreader to be customized for your operation. For instance, the upper beater option helps level the load during unloading and shred clumps for a fine blanket. The upper beater has an optional sprocket to speed the upper beater for a wider, thinner layer. Other options include a hydraulic endgate, slurry pan and a front extension.

Owners can also customize conveyor (application) rates by using one of the two conveyor speeds and one of two slow-down options for a total of six conveyor rates allowing you to customize manure application rates. The standard setup (heavy application rate) unloads at 8.4 feet per minute (4.4 feet per minute in low gear). The 20% torque reduction kit slows the conveyor speed to 7.1 feet per minute (3.6 feet per minute in low gear) for medium manure application rates. The 50% torque reduction kit slows the conveyor speed down to 4.8 feet per minute (2.4 feet per minute in low gear) to break apart heavy pen-pack manure or to spread a thin, even layer of waste.

A truck-mount version is available for dealers to mount the spreader to the customer's truck. A

tandem axle truck is recommended for 3626 (260 bu.) and larger models. The spreader gearbox is powered from the transmission PTO.

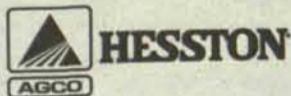
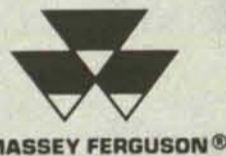
New Idea spreaders are well-known for their durability and quality. The rugged one-piece, welded tongue and frame provides the strength required for heavy loads. The one-piece sides are made of copper bearing, culvert-grade, galvanized steel so they won't rust or leak. The one-piece floor resists rotting, pitting and warping and is coated with polyurethane to stay slick. The 17,000 pound minimum tensile strength T-bar conveyor chain is the strongest available and the conveyor slats are corrosion-resistant rail steel to resist bending.

All box spreaders are backed by a full ten-year warranty on the floor and sides. The gearbox and conveyor are covered by a two-year warranty. All other components are covered by a one-year warranty. The New Idea spreader warranty covers both parts and labor. Most competitive warranties do not include labor.

The smallest model, 3609 (90 bu.), lists for \$3700, while the largest model, 3639 (390 bu.), lists for \$8395.

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**I**ntroducing the New Idea® 3700 Series Spreaders. Eight new models with capacities ranging from 59 (1.7m<sup>3</sup>) to a full 270 cu. ft. (7.65m<sup>3</sup>) struck level. There's a 3700 Series Spreader for every job.

New features enable the 3700s to handle even the toughest conditions while carefully controlling spread rate and maintaining a consistent spread pattern.

- Staggered main beater provides aggressive shredding with uniform distribution.
- Optional hydraulic conveyor drive lets you easily match unloading rates to field conditions.
- Upper beater speed has been increased 33% for improved shredding and unloading.

**STOP BY YOUR AGCO® NEW IDEA DEALER TODAY AND PUT A 3700 SERIES SPREADER TO WORK FOR YOU.**



**NEW IDEA®**





## Glencoe incorporates new 3-point mounted field cultivators into its product line

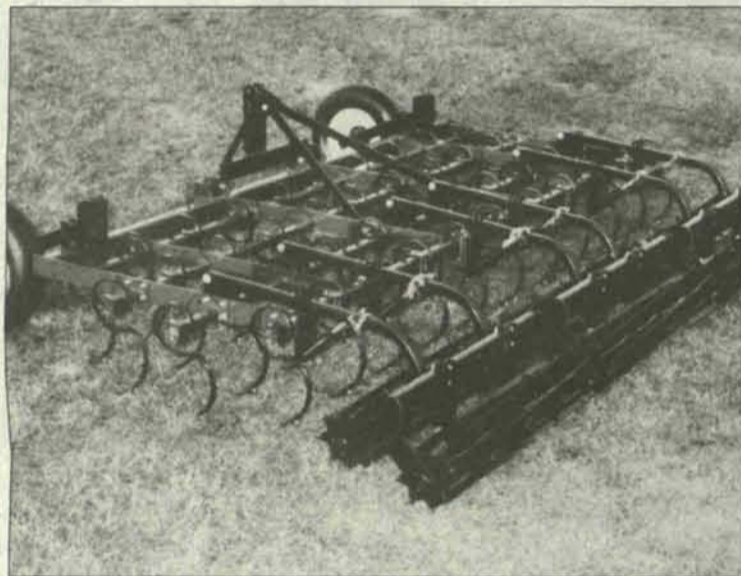
Glencoe introduces two new 3-point mounted Field Cultivator/Incorporators, the FC870 and FC875, that effectively incorporate chemicals into the soil while preparing a smooth seedbed. These new machines add another dimension to Glencoe's full line of tillage equipment.

Available in a wide range of working widths, the FC870 and FC875 come in rigid frame and hydraulic folding frame models. Working widths of the

rigid frame models are 10', 12', 14', and 19', while the larger hydraulic folding models have 19' and 22' working widths with a 15' transportation width. Hydraulic cylinders with hoses are standard on the folding models.

The FC870 and FC875 feature four ranks spaced 17" apart on a 2"x2" bar. A 4" shank spacing with 16" between adjacent shanks insures good residue and soil flow. To ensure smooth seedbed preparation and complete

chemical incorporation, the field cultivator/incorporators are equipped with ultra-high vibration tines with a choice of points or shovels. Reversible points and 2-3/4", 4", or 7" sweeps are available. Dual, floating 12" rolling baskets with spiral blades finish incorporating while firming the seedbed. The rolling baskets are supported by flexible spring loaded mounting arms.



Regreasable sealed ball bearings in the rolling baskets increase the durability and life of the machines.

Additional features include gauge wheels with 7.60 x 15 six ply tires with turnbuckle or

pin-type adjustments on the rigid units. Turnbuckle adjustment is standard on the folding units. Gauge wheels can be repositioned outside the tractor duals with an optional gauge wheel extension kit.

## Massey Ferguson adds four-wheel drive to 67 hp utility/chore tractor

New features increase productivity

John Sargeant, Massey Ferguson product marketing manager stated, "The 67 PTO horsepower MF 283, a reliable, productive utility tractor in use by farmers across North America, now offers greater versatility and improved productivity with four-wheel drive and new high-performance features."

"The MF 283 can easily handle primary tillage jobs on small and specialty farms, and light tillage, haying, hauling and chores on larger farms," added Sargeant. "It's also a proven performer in hard usage applications by rental firms, construction and grounds maintenance operations, and manufacturing and building companies."

The new four-wheel-drive model has a single cast center beam front axle for excellent loading capacity and longer life, even with front loader use. The axle also provides a sharp 55 degree turning angle for tight turns in close quarters.

A parallel drive design places the drive shaft along the left hand side of the engine and chassis to achieve a low overall profile and low center of gravity for stability, and a shortened wheelbase for improved turning.

Four-wheel drive is engaged by the operator on-the-go by simply pushing down on a T handle control located to the left of the seat. No clutching

is required, there is no power interruption to the wheels, and productivity and convenience are maintained.

The MF 283 features a Perkins 67 PTO HP four-cylinder, direct-injection diesel engine with a proven record of easy starting, high torque backup, and outstanding fuel economy. Perkins engines have a unique long-stroke design that develops high torque at low engine rpm. This "torque backup" gives the MF 283 added lugging power to pull through difficult job conditions without having to constantly change gears.

An 8-speed manual-shift transmission and auxiliary hydraulics are standard equipment on the MF 283. A simple gear pump, driven by the PTO shaft, provides 9.5 gpm flow only to the auxiliary hydraulics. Power steering and Category II three-point hitch flows are provided by other separate pumps.

For improved convenience and productivity, factory installed hydraulics now have two spring return-to-neutral spool valves located at the rear of the tractor behind the operator's seat, with control levers to the operators right. A tethered PTO shield has been added for improved convenience and easy implement hook up.

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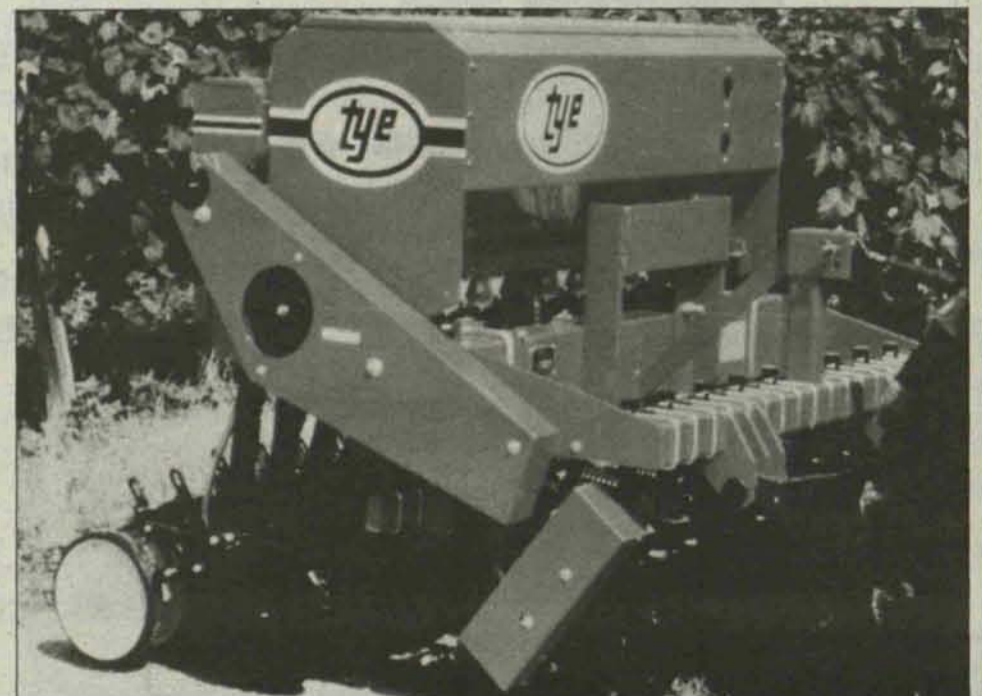
## Fifth generation Pasture Pleasers® plant no-till crops with precision

Tye's Pasture Pleasers plant no-till grain and legumes in a single pass, increasing cropland profitably through renovation and interseeding. The fifth generation of Tye Pasture Pleasers feature the new "Trac-Drive," heavier frame, self-cleaning two bushel per foot grain box and the latest state-of-the-art precision seeding system.

The new "Trac-Drive" provides a positive, simple and trouble-free drive located on top for maximum visibility. The high capacity, easy-to-fill

grain box has a narrow two-and-three-quarters box bottom which is self-cleaning. The precision planting system features new cutting coulters, heavy duty row units and E-Z Adjust presswheels. The heart of Tye's Pasture Pleasers is the proven nine-flute internal seeder.

Tye's new seven foot and ten foot models plant a full seven inch and ten inch swath, wider than competitive models. The narrow, seven inch row spacing allows optimum planting of new hybrids.







## Glencoe brings new disc harrows to the field

**G**lencoe introduces a full line of field proven disc harrows. The new line includes two rigid frame finishing discs (TD350/TD351), two flex frame finishing discs (TD580/TD590), and one offset primary tillage disc (OD650).

The new Glencoe line is designed to match any size operation with a wide range of wide and narrow frame tandem discs. The non-folding discs have a cutting width of 8' to 18' while the folding models have a cutting width of 13' to 32'.

For great cutting action, the four finishing discs offer a choice of 20" or 22" cut-out or smooth disc blades. The TD350/351 offers a 7-1/2" or 9" disc

spacing while the TD580/590 offers a 8" or 9" disc spacing. The OD650 offset disc features 24" or 26" cut out or round disc blades with a choice of 9" or 10-1/2" disc spacing. The average weight exceeds 100 pounds per blade (170lbs/blade on the OD650's). Scrapers are standard on all models. The end blades on all models are tapered by 2" to leave a smooth, level finish.

Built to provide years of dependable service, the Glencoe discs come equipped with triple lip seal ball bearings with an option of rigid or flexible bearing hangers. For added durability, end bearings are never more than one blade from the end of the

gang. For more aggressive tilling action, the TD350/351 and OD650 feature an adjustable gang angle that ranges from 15° to 26°. The TD580/590 has a non-adjustable gang of angle of 18°.

Several specifications are standard throughout the line. All models feature high flotation wheels, spring rod leveling systems, and heavy-duty welded tubular frames. The hydraulic cylinders and hoses are standard on all folding models.

Middle Buster attachments, furrow filler attachments, gang connectors, and gang bolt wrenches are available as options with the finishing disc harrows.



# HOW TO PRODUCE QUALITY SEEDBEDS IN YOUR HIGH RESIDUE FIELDS!

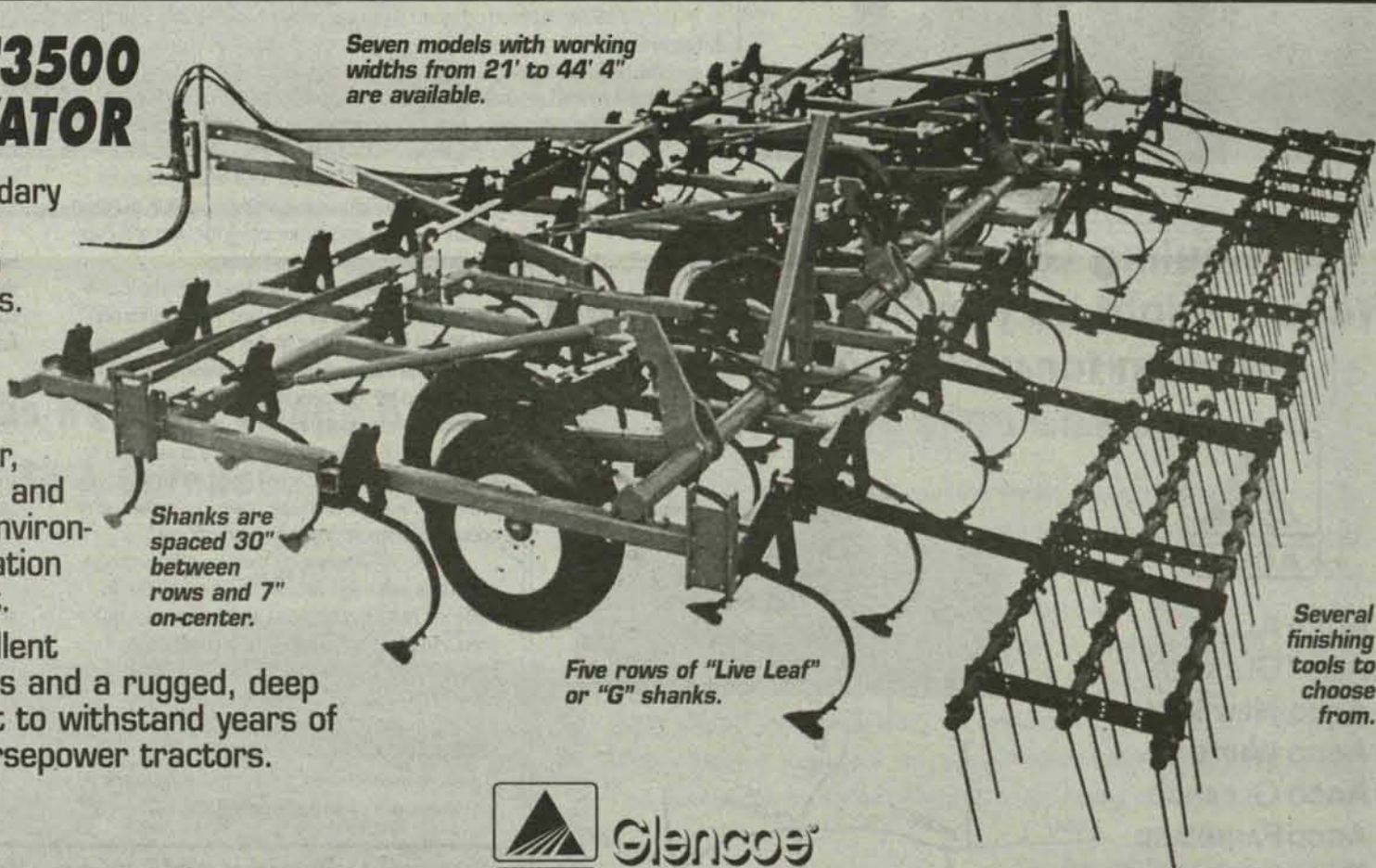
## GLENCOE® FC3500 FIELD CULTIVATOR

Here's the ideal secondary tillage tool for working high residue fields into level, uniform seedbeds.

The FC3500 Field Cultivator thoroughly incorporates herbicides and fertilizer, mixes and aerates soil and creates an excellent environment for seed germination and plant development.

The FC3500 has excellent flow built-in with 5 bars and a rugged, deep main frame that's built to withstand years of hard use with high horsepower tractors.

Seven models with working widths from 21' to 44' 4" are available.



Shanks are spaced 30" between rows and 7" on-center.

Five rows of "Live Leaf" or "G" shanks.

Several finishing tools to choose from.



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## 3,000,000 tractors produced at Massey Ferguson Coventry plant in just 50 years

Fifty years ago this year, at what is now Massey Ferguson's plant in Coventry, England, a new tractor came off the assembly line that was to change the face of mechanization on farms throughout the world.

The tractor was the renowned TE20 with its revolutionary Ferguson System of tractor weight transfer with ground-engaging implements, making it possible for small, lightweight tractors to perform like machines three times their size.

On October 15, 1996, tractor no. 3,000,000, an MF375, 60 PTO horsepower, high-performance tractor, was produced at the Massey Ferguson Banner Lane, Coventry, plant, the single largest factory in the western world devoted solely to tractor production.

The success of the early TE20, enabling farmers to cultivate and produce crops more efficiently, economically and safely than ever before, laid the founda-

tion for the remarkable record Massey Ferguson tractors hold today.

Massey Ferguson tractors are the world's best-selling brand and the company has achieved this leadership position for the last 33 consecutive years.

Ninety percent of the tractors produced at the Coventry plant are exported to world markets and it is estimated that over one million MF tractors are currently at work throughout the world.

This year, Massey Ferguson celebrates its 150<sup>th</sup> anniversary.

## Massey Ferguson High-Performance Tractors Receive Awards for Innovative Technology

The 1996 AE 50 Award for outstanding innovation in product technology is the latest award received by Massey Ferguson's MF 6100 and MF 8100 high-performance tractors, 86 to 180 PTO horsepower.

The AE 50 recognition program is conducted annually by the American Society of Agricultural Engineers to emphasize the role of new products and systems in transferring technology to the marketplace.

An earlier award received by the MF 6100 and MF 8100 series tractors, the OEMmie Award for innovative design and performance, was announced at the annual Society of Automotive Engineers (SAE) Off-Highway Conference.

The OEMmie Award recognized the MF 6100 and MF 8100 series tractors for their innovative features that set them apart from others in North America, and for advancing the state of the art and increasing equipment performance.

"These new tractor ranges have taken the lead in the competitive battle for increased 'power efficiency,'" said Wifred Boyle, director, Massey Ferguson Operations, "and this was a key factor in earning these awards." The MF 6100 and MF 8100 series tractors are designed to minimize power losses through the transmission and deliver up to 90 percent of their engine horsepower to the wheels and PTO," explained Boyle. "With more engine power available as 'usable power', everyday tractor operations are more productive and efficient."

These award-winning tractors offer a choice of horsepower and two or four-wheel-drive to meet the requirements of a wide range of applications and types of farms. They include:

FM 6150 - 86 PTO hp	MF 8140 - 145 PTO hp
MF 6170 - 97 PTO hp	MF 8150 - 160 PTO hp
MF 6180 - 110 PTO hp	MF 8160 - 180 PTO hp
MF 8120 - 130 PTO hp	

All models feature a synchronized shuttle transmission, new extra-large wet clutch, new 55°

steering 4WD front axle, new Electronic Linkage Control with Transport Control to cushion 3-point implement "bounce" in transport, new QuietView Cabs, and new Autotronic and Data-tronic electronic performance monitoring and information systems.

All tractors have independent PTO systems as standard equipment and the 6100 series includes Economy PTO, allowing full PTO speed at lower engine RPM, saving fuel and increasing tractor life.

The Electronic Linkage Control system, pioneered by Massey Ferguson in North America, features a new MF digital system that responds even faster to changing conditions for the most precise, fingertip control of implement operations.

Electric Linkage Control functions are fully integrated and automated for quick soil engagement, sensitivity adjustment, rate of drop, and the ATC (Active Transport Control). ATC automatically senses the weight of any implement being carried on the linkage and smoothes out "bounce" when equipment is being transported.

QuietView cabs for the 6100 and 8100 series tractors are totally new with wider door openings and 30 percent more space. Pneumatic swiveling seats and a tilting/telescoping steering column are standard. All main controls, including a new electronic linkage panel, PTO control knob, auxiliary valves, throttle and gearshift are grouped on a right-hand console.

## Award-winning self-propelled rotary-disc windrower is known for power and performance

Designed specifically for large-acreage hay and forage producers, Hesston's Model 8500 Self-Propelled Rotary-Disc Windrower boasts advanced rotary-disc cutting technology.

The Model 8500 offers numerous features that provide power and performance in all types of field conditions. The stable footing improves performance and comfort over rough terrain. Cutterbed flotation and angle are both hydraulically controlled and monitored from the cab. Hydrostatic control of ground speed and cutterbed disc speed allow the operator to match crop conditions and terrain. The 8500 is powered by a 359-cubic-inch, Cummins six-cylinder diesel engine for high torque rise and exceptional power.

According to Hesston's general marketing manager, Ron Hess, the 8500 represents years of hard work and planning. "We determined that large acreage hay

and forage producers wanted increased productivity while retaining clean cutting and aggressive conditioning. So we gave them the best of both worlds with a 15-foot, three-inch header, a modular disc mower cutterbed and wide conditioner rolls."

Service and maintenance were made easier on the Hesston 8500, too. All engine shields are hinged to open for easy access to the engine and hydraulics.

The Model 8500 self-propelled windrower was a 1995 recipient of The AE 50 award. The AE 50 recognition program is conducted each year by Resource: Engineering & Technology for a Sustainable World to emphasize the important role of new products and systems in transferring technology to the marketplace for application by a wide spectrum of users in food and agriculture.

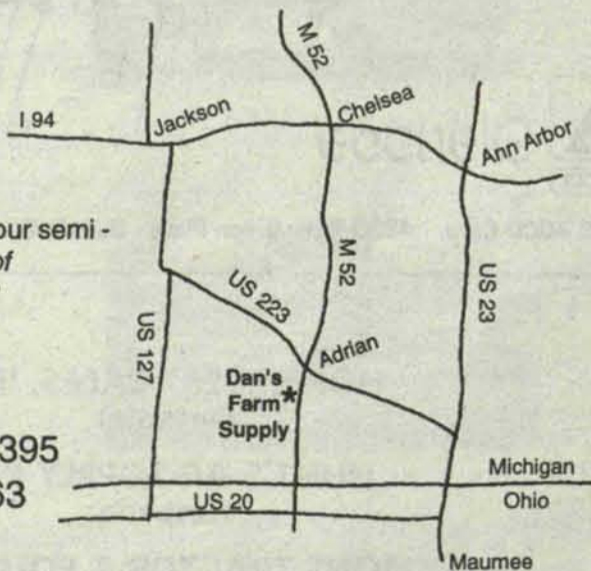
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## Newest addition to Hesston baler line features conventional or silage baling

**H**esston® introduces the Model 4755 Rectangular Baler, a state-of-the-art technological advancement in the baling industry. The 4755 has the capability to bale conventional dry bales as well as high-moisture silage bales.

"As farm size as well as the number of custom operators grows each year, the large baler segment of the market continues to grow also," says Ron Hess, AGCO general marketing manager for Hesston. "With the new 4755, producers have the ability to bale the crop as dry hay or they can bale it as high-moisture hay and seal it in silage bale tubes or plastic wrap."

The 4755 is engineered for the challenges presented while baling silage. The heavier feeder drive system is designed for the increased load of high moisture hay and the bale chute has been equipped with rollers to provide more support and ease of movement of a heavier silage bale. A set of wipers on the twine needles has also been added to help reduce gum build-up.

"The most unique feature of the 4755 is a set of teeth in the bottom of the bale chamber that are used to eject the last bale," explains Bob Granaas, AGCO sales engineer for Hesston. "Whether the teeth are used at the end of the field or the end of the day, they assure the operator that a high-moisture bale is not going to

swell in the chamber and create problems."

The four rows of teeth are spring loaded to lay down as a bale passes over them. They can be repositioned forward or rearward in the chamber to move a bale in any position out of the chamber.

The 4755 requires 90 horsepower to produce bales weighing up to 1,000 pounds, and bales measure 31.5 inches wide by 34.4 inches high by up to 98 inches long.

"This machine is versatile enough to fit the needs of everyone from custom operators to dairy operations to custom livestock producers," says Hess. "And in today's agricultural economy, the ability to fulfill more than one role is a valuable attribute to any machine."



## Hesston® puts a wrap on baling needs

**I**n response to the move to baling silage, or high moisture crop, HESSTON® is expanding its hay systems to include the BW 40 and BW 45 Bale Wrappers. Baling silage is gaining popularity because it improves efficiency, provides greater flexibility in dealing with weather, and can enhance nutritional value of feed.

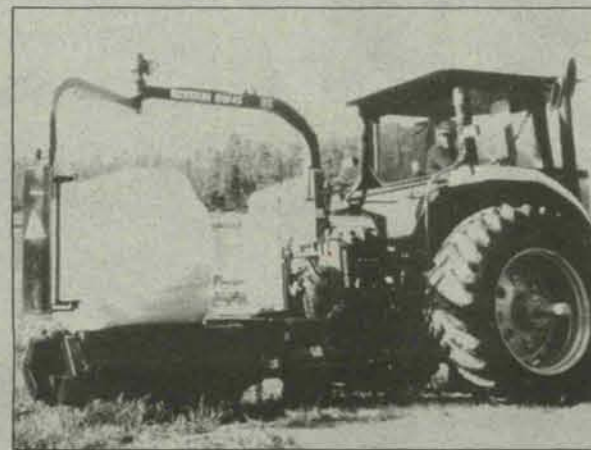
"The introduction of these two models recognizes the trends in the hay business," says Ron Hess, HESSTON general marketing manager. "HESSTON wants to satisfy all of the farmer's haying needs and the bale wrapper is simply an extension of our current product lineup."

Both models can handle either a round or square bale with a diameter/length of 5 feet and weighing up to 2,600 pounds. The more economical BW 40 features a rotating platform on a 3-point mounted frame. The operator uses the tractor's hydraulics to perform all tasks. A set of four rollers on the platform cradles the bale and turns it smoothly for an even wrap. As the table rotates, the plastic film is applied up to 22 revolutions per minute. Once completed, the platform tips, and the bale gently rolls onto the ground.

The self-loading BW 45 features a stationary platform with rotating rollers. As the bale turns

on the rollers, a rotating arm circles the bale to tightly seal it in film. A programmable control unit on the BW 45 allows the operator to wrap each bale the same number of times with equal overlap. The control unit also displays the number of bales wrapped, the revolutions per minute of the wrapping arm, and other functions of the machine.

Because all functions are controlled electronically, the BW 45 offers several safety features. For example, all functions of the machine will cease by pressing the "stop" button on the control panel. In addition, a safety bar, which orbits ahead of the wrapping arm, stops the arm when it contacts an object or person in its path.



## Only Hesston® Has Hay And Silage Baling Down To A Science.



### Stop by your Hesston dealer to find out more about the new 4755 rectangular baler.

*It's the mid-size baler that requires as little as 90 PTO horsepower to power its way through high-moisture silage as well as high-density dry hay. You'll get the most out of special features like rugged drives and a unique bale chamber ejection system. And, for maximum versatility, bales measure 31.5 inches wide by 34.4 inches high by up to 98 inches long. That makes them the ideal size for feeding on your own farm or for loading a truck to maximum payload. Stop by your Hesston dealer for a look at the new 4755. You'll agree, there's only one manufacturer that has hay and silage baling down to a science.*



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\*Mfr's. est. engine horsepower.



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