



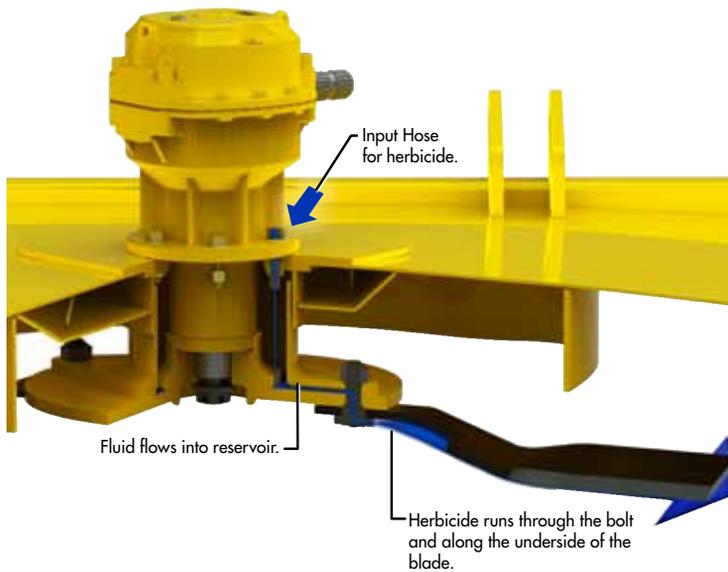
CUTTING EQUIPMENT



SPRAY WEEDS...WITHOUT THE SPRAY.

DEGELMAN LIQUIFIRE

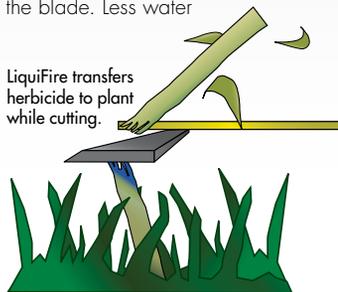
The patented Degelman LiquiFire system reduces operating costs by mowing and applying herbicide simultaneously. A unique delivery system allows you to apply herbicide in sensitive areas without running the risk of airborne drift or contamination.



EFFECTIVE TREATMENT

The treatment is applied without drift or ground soak. Instead, herbicide is delivered from a hermetically sealed fluid reservoir, via centrifugal force, through the blade bolt to the underside of the blade. Less water

is used. Less chemical is used. Less risk of drift. More efficient use of time and resources. Independent studies conclude LiquiFire treatments are effective control of Canada Thistle, for example and this method of application is dramatically more effective than mowing only or traditional foliar applied applications. Grass is cut and weeds are killed at the source.



PRACTICAL SOLUTION

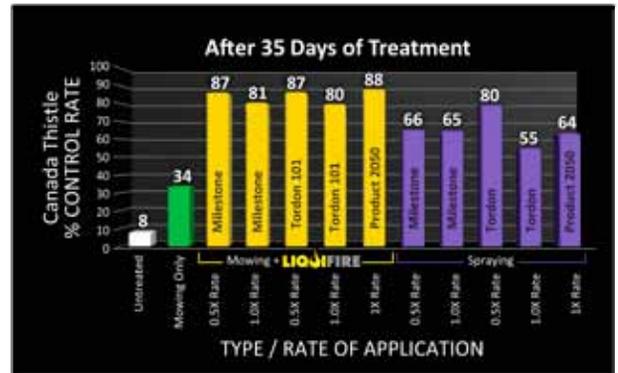
Unlike competitors, LiquiFire's patented technology can be used on standard Degelman REV cutter gearboxes without compromising drive shaft strength or risk gearbox contamination and failure. LiquiFire is the only cost effective and practical solution for roadside vegetation management. Period.



Showing cut and herbicide application.

APPLICATION

Herbicide is brushed on the stem of the plant with a wiping motion. Wiping the chemical on the stem after cutting is the most effective way to achieve a high kill rate.



RESULTS

The plant absorbs the herbicide down into the vascular system before scabbing over. The plant dies and will not re-sprout.



One month after mowing and herbicide treatment.



Cut with Degelman LiquiFire system.



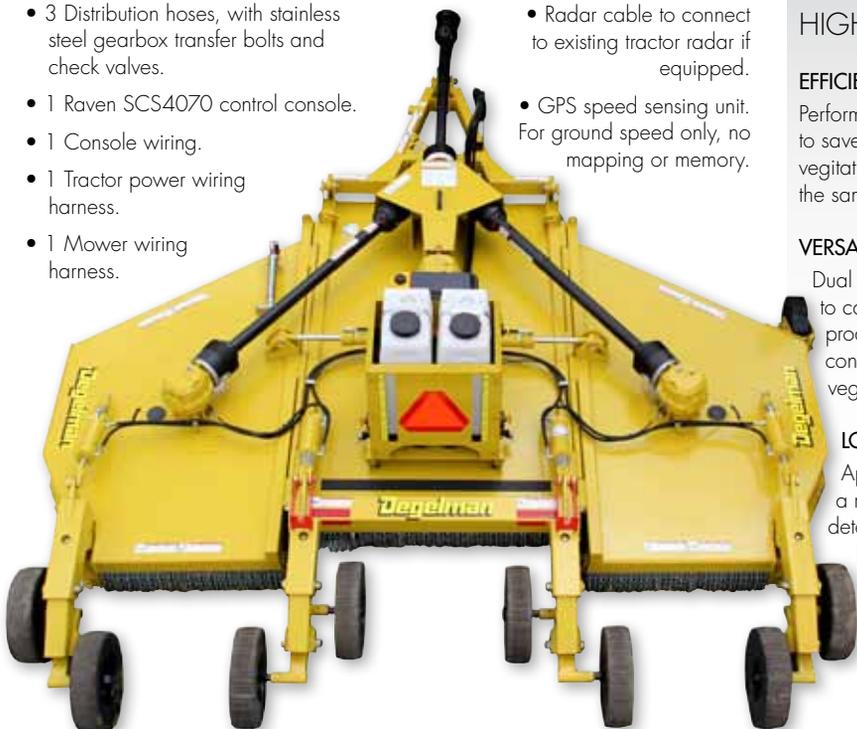
INCLUDED COMPONENTS

- Steel enclosure containing the following:
 - 2 Chemical tanks, white poly.
 - 1 Chemical injection pump with intergrated motor speed controller and calibration tube.
 - 3 polypropylene ball valves.
 - 3 inline 80 mesh strainers
 - aluminium distribution manifold.
 - manual storage box.
 - spill kit and emergency shovel.
 - Chemwash, freshwater tank, yellow poly with checkvalve protection to chemical tanks & front spigot valve for quick access.
- 3 Blade mounts with built in reservoir & distribution channels.
- 6 Fluid transfer blade bolts. (Purchaser may choose to purchase more, as these are wear items).
- 6 Cutting blades, 5" wide x 25-1/2" long x 1/2 in thick.
- 3 Dust seal mounts, required for reservoir blade mount.
- 3 Teflon, double lip dust seals. (Purchaser may choose to order an extra set as these are wear items).
- 3 Distribution hoses, with stainless steel gearbox transfer bolts and check valves.
- 1 Raven SCS4070 control console.
- 1 Console wiring.
- 1 Tractor power wiring harness.
- 1 Mower wiring harness.



OPTIONAL COMPONENTS

- Sidearm wiring harness, 27 ft long.
- Radar stand-alone kit with cables.
- Radar cable to connect to existing tractor radar if equipped.
- GPS speed sensing unit. For ground speed only, no mapping or memory.



SPECIFICATIONS

PRODUCT TANK CAPACITY	Two tanks, 24 US gal. each with deep sump for 100% cleanout.
RINSE TANK CAPACITY	Single 5.25 US gal. Tank with integrated storage container.
DELIVERY SYSTEM	Raven direct injection, positive displacement piston pumps.
CONTROL SYSTEM	Raven SCS 4070 console
DIRECT INJECTION PUMPS	Controlled output volume from 5 to 200 oz/min.
MAXIMUM OPERATING PRESSURE	150 psi. (Typically operates under 20 psi.)
TYPICAL APPLICATION RATES	1 gal/acre to 3 gal/acre, as desired by operator.
DIMENSIONS	32" x 32"x 44" (w x l x h)
DRY WEIGHT	325 lbs.

CONFIGURATION

- Uses standard Degelman mower blades with specifically designed blade bolts.
- Stainless steel fittings, check valves and fluid transfer bolts.
- High pressure, urethane coated delivery hoses for chemical resistance and durability.
- Heavy duty blade mount reservoir with internal channels for chemical delivery.
- Replaceable Teflon dust seal around blade reservoir to eliminate contamination.



RAVEN CHEMICAL INJECTION SYSTEM.

HIGHLIGHTS

EFFICIENT

Perform two operations simultaneously to save time and cut costs by mowing vegetation and applying herbicide at the same time.

SAFE

Herbicide can be applied to sensitive areas with very low risk of drift or contamination compared to a sprayer or spray truck.

VERSATILE

Dual product tanks allow the user to carry and apply two different products for targeting, and controlling a broader range of vegetation.

EFFECTIVE

Independent test results show on average that using Liquifire is 240% more effective than mowing only and 20% more effective than spraying only.

LOW PROFILE

Applying herbicide by means of a rotary cutter may go nearly undetected, as big spray tanks, spray booms and clouds of spray are neither visible or present.

DATA COLLECTION

Available connections supplied for add-on GPS data logging.



sidearm

CUT WHERE YOU'VE NEVER CUT BEFORE.

With the Degelman Sidearm® an operator can cut where it's never been possible to cut before - safely. The operator can stay on the highway and position the cutter 50 degrees on either side of the road. Cut from the right, the left or straight back.



The Sidearm® completely eliminates the fear of tractor rollovers when encountering steep embankments because it allows the tractor to stay on the road - level and safe - while operating.

THE SIDEARM ADVANTAGE

In-line drive train... heavy-duty hitch... wide open shielding... all the components we put into the Sidearm® are unequalled in design and quality. The result is a tool that maximizes the control the operator has over cutting ditches while minimizing the stress and danger associated with challenging angles and hard-to-get to places.

WIPE OPEN ACCESS

Operators access components without tools in seconds making routine maintenance easy. Wide open shielding has two doors that swing open at least 180° and is around all input and output shafts.

COMPATIBLE

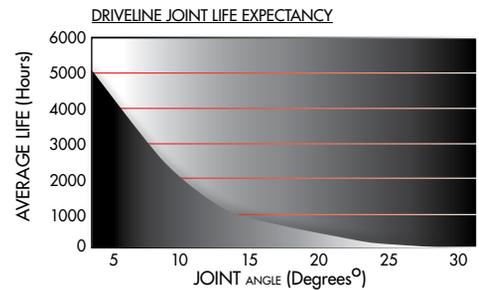
Quickly connects to any 10', 15' or 20' delta wing cutter with a simple adapter plate.

TIGHT TURNING RADIUS

Radical tight turning radius with in-line feature. Cut to the right of signs and power poles saving time and money from secondary cuts and passes.

DRIVE STRAIGHT. STRAIGHT DRIVE.

To increase the life of the Sidearm® even more, all our drive shafts are in-line to each other. This design feature significantly reduces wear and tear of the components and ensures a direct transfer of power without wearing drive train components. As the cutter is always directly in-line with the Sidearm's output shaft, the life expectancy of the input drive of the cutter is extended



exponentially. This increases the versatility of the equipment and keeps everything straight no matter what direction the



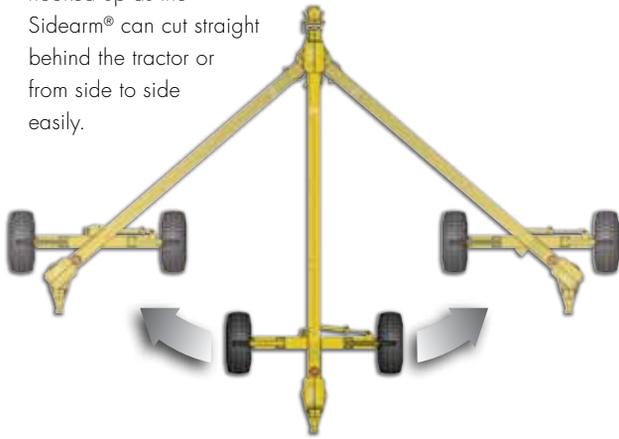


STAY HOOKED UP

With the Sidearm® there's no need to unhook to move from mowing offset to straight. It can remain hooked up as the Sidearm® can cut straight behind the tractor or from side to side easily.

MANEUVERABLE

A fast-steering mechanism gives the entire unit a secure, safe and quick response to turns.



HEAVY-DUTY HITCH

The Sidearm® is equipped with a standard, heavy-duty V-Clamp compatible to more than 30 different makes and models of tractor drawbars.

OVER-SIZED FRAME

It's made up of quarter-inch steel and 8"x12" hollow-structural tubing. It's big. It's wide. And it's strong.



HIGH CARBON SHAFTING

We use cold-rolled, high carbon hex shafting for maximum torque transmission. To increase the ease of maintenance, we designed the shafting and the bearings as one sub-assembly. That means they're both contained in the same tray. If long term servicing is required, the entire bearing tray can be pulled out.

When the tractor's on the road, it's not pressing down the grass making it harder

to lift and cut. Using the Sidearm® means all the grass is cut evenly without patches or strips.

REDUCED OPERATOR FATIGUE

Drive level and smooth. By being straight on the road and out of the ditch, the operator also benefits from increased visibility and full command over the cutter.

QUICK CONNECTIONS

Quick disconnect features are standard throughout the Sidearm®, including a quick disconnect coupler in between the gearboxes. We include three sets of hoses that can be adapted easily to a four-hose arrangement if needed. And switching from one wing to the other can be done at the touch of a switch.

BACK UP WITH EASE

Signs... fence posts... culverts... if operators find themselves in a tight spot, the Sidearm® gives them the maneuverability to back up easily and get out quickly.

EASY MAINTENANCE

All driveline bearings and cross-joints are easy to service. Drivelines are in-line and designed for handling misalignment and therefore require less servicing. Parts are easily replaceable such as spindles that can be removed with just one bolt. The frame swivel points and wheel axle



are sandwiched between two layers of low wear composite for smooth operation and easy maintenance.

Long-term off-level operation is hard on a tractor's transmission and engine lubrication. By remaining level and out of the ditch, tractors last longer. Less vibration. Less damaged tires and rims.



HIGH HORSEPOWER GEARBOXES

Our gearboxes are made right here in Canada using a splined shaft design versus a keyway. The splined shaft increases the surface area of all contact points for increased strength, power transfer and life expectancy. To go even further, we use gearboxes with a 1:1 ratio - the maximum strength that can be extracted from a gearbox.

SIDEARM® 1820 - SPECIFICATIONS & OPTIONS

Overall Dimensions:	
Overall Height	74"
Overall Width (with wheels)	116"
Overall Length	22'-6"
Weight: Standard	3607 lbs
Hitch Weight: (standard)	1500 lbs
Hitch Weight: (cutter attached)	approx. 450 lbs
Angling:	Maximum 50° (left or right)
Offset:	166" (drawbar centre to cutter centre)
Main Frame Construction:	8" x 12" (.250 wall)
Hitch:	Swivel Type
Pivoting Points:	Protected by Nylon Bushings/discs
Grease Fittings:	Easy Access
Tires:	16.5 x 16.1 All Terrain
Hydraulic Cylinder:	2-1/2" x 16"
PTO requirement:	(100 or 540 PTO)
Drivelines:	Weasler
DIL Gear Box:	1 : 1 ratio
Drive Shaft:	1-1/2" Hex Bar
Heavy Duty Shielding:	Easy Swing-Away
Optional Accessories:	
Light Kit, Selector Valve Kit, Strobe Kit, Trailer Coupler, Cutter Adapter	

REV 1500

INTRODUCING THE NEXT REVOLUTION OF CUTTERS.

REV 1500 rotary cutter from Degelman. The deck is made from a 3/16 inch impact resistant steel formed to create a smooth sloping deck. This curved shape deck is manufactured with continuous welds and without pockets that collect debris. As the cutter operates, debris sheds off. Maintenance is quick, easy and weeds are not transferred from one location to another.

OVER-SIZED GEARBOXES

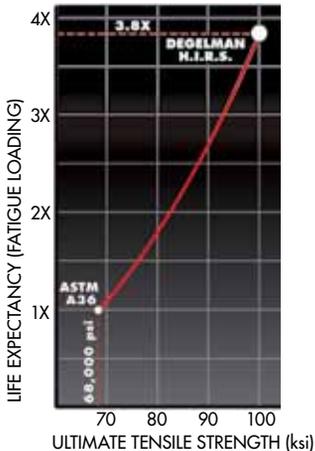
Designed with exacting standards for maximum life expectancy. Convenient sight glass to check lubricant level at a glance. Industrial split case design for easy and accurate assembly and gear mesh setting. Highest torque rating for rotary cutter applications worldwide.



of standard grade A36, resists rust and shock loading better. As a result, the cutter lasts longer, endures more punishment and retains a higher resale value.

HIGH IMPACT RESISTANT STEEL

The tougher the steel the tougher the deck. Improved impact resistant steel has three to four times the lifespan



HEAVY-DUTY 3/4" BLADE CARRIERS

A blade carrier that is tight, tough and safe. Plate of 3/4 inch steel that is four times thicker than most pans. Four-blade mounting locations utilize exclusive square and tapered bolt to eliminate movement.

SQUARE IS BETTER

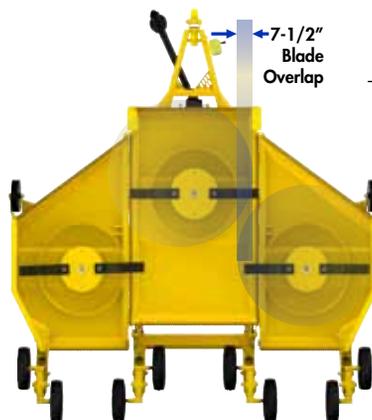
Why do all impact and socket wrenches use square adaptors? - Torque. Again, we go a step further. For

easy blade replacement and increased resiliency, we use hardened square bolts. Because of the increased surface area, the square blade bolts have a tighter tolerance and a better contact fit than keyed or hex shaped bolts. This prevents the bolts from spinning and wearing out sooner. Because of this smart design, replacing our bolts is truly a one-person job.



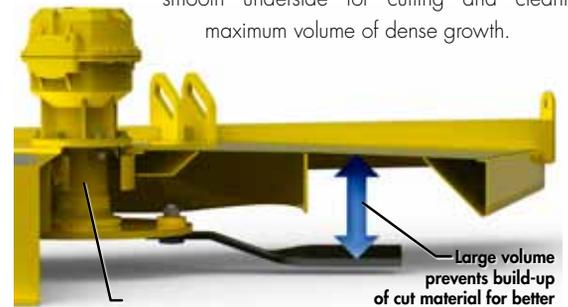
AR400 SKID SHOES

Our AR400 plated skid shoes boast eight times the abrasion resistance of regular steel. They are also replaceable.



MAXIMUM VOLUME UNDER DECK

Thirteen inches of side depth combined with a smooth underside for cutting and clearing maximum volume of dense growth.



LONG LASTING 5" TWIST BLADES

Heavy-duty 5 inch wide, twist blades are longer lasting and more resistant to bending and breaking.



3/4" Heavy-Duty Blade Carrier

Tapered fit for Nut & Bolt Mounting

Square fit bolt

TAPERED BOLTS. TIGHT FIT.

It's an engineering fact that two perfectly-machined conical surfaces will centre to each other (a design the automotive industry uses for tie-rods). We applied this thinking to our nuts and bolts. Tapering centers the nut and the bolt, thus eliminating play and reducing wear.



PRECISION HITCH

Our single bolt clamp hitch is machined and heat-treated from hardened steel to make our hitch superior in quality. Most grease points are designed for easy through-



the-head access. Added safety comes into play with our lock up pin connection so one person can do the hook up without worry of hand injury.

NORTH AMERICAN MADE SOLID STEEL SPLINED DRIVE TRAIN

The REV1500 has been improved to incorporate an end to end Weasler engineered drive train. Weasler's heritage is all about quality, safety and precision manufacturing. Solid high tensile steel spline shafts are unrivalled for torque, shock loads and sliding ability. Rotary cutters put tremendous stress on the drive



lines. The REV is protected from the wide angle drive shafts to the heat dissipating preset friction torque limiters. The multi-patented 80° ball and socket constant velocity joint distributes loads evenly, retains lubricant, reduces wear and keeps contaminants out. And for safety the patented articulated guard system maintains full coverage with the mating guard bell.



1.78" Solid high tensile steel spline shaft

DEGELMAN HYDRAULIC CYLINDERS

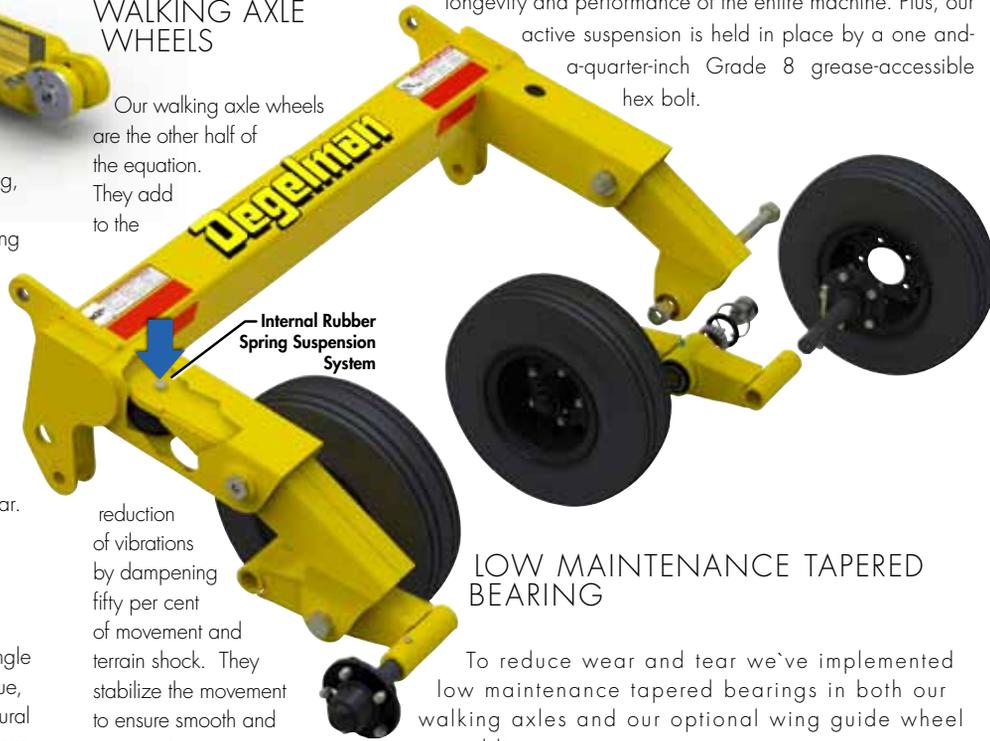
We manufacture our own industrial cylinders with induction hardened chrome shafting, urethane seals and wear bands to eliminate scarring and oil contamination. Shorter strokes translate into rapid movements and more wear, so we developed our center cylinder with a longer, smoother stroke to increase life expectancy and reduce wear and tear.



rotary cutter we've integrated a series of vibration dampening systems that collectively absorb the vibrations.

WALKING AXLE WHEELS

Our walking axle wheels are the other half of the equation. They add to the



reduction of vibrations by dampening fifty per cent of movement and terrain shock. They stabilize the movement to ensure smooth and even cutting.

RUGGED KNEE ACTION SUSPENSION

For absorbing and reducing impact the rubber we use is top of the line, self-dampening and UV-protected to ensure the longevity and performance of the entire machine. Plus, our active suspension is held in place by a one and-a-quarter-inch Grade 8 grease-accessible hex bolt.

VIBRATION CONTROL

Vibration. The largest single contributor to metal fatigue, stress-cracking and structural failures. In the design of our

LOW MAINTENANCE TAPERED BEARING

To reduce wear and tear we've implemented low maintenance tapered bearings in both our walking axles and our optional wing guide wheel assemblies.

REV1500 ROTARY CUTTER - SPECIFICATIONS & OPTIONS 1000 model specs. shown in {}'s.

Field Position:	
Cutting Height	1" to 16"
Cutting Width	180" (123")
Overall Width	189" (138")
Overall Length	198"
Side Depth	13"
Transport Position:	
Overall Height	84"
Overall Width (no wheels)	96" (92")
Overall Width (with wheels)	122" (105")
Overall Length	198"
Ground Clearance: 15"	
Weight: Standard	5830 lbs (5780 lbs)
Hitch Weight:	
Field Position	1975 lbs (1970 lbs)
Transport Position	1925 lbs (1920 lbs)
Wing Flex:	22° down, 88° up
Deck Thickness:	3/16" High Impact Resistant Steel
Skid Shoes:	
Wing	3/8" x 3" AR400
Center Section	3/8" x 5-1/2" AR400
Deck Rings:	Standard
Side Skirt Thickness:	Laminated up to 7/16" thick
Minimum Tractor PTO Power:	80 hp
Recommended Tractor PTO Power:	100 hp
Drivelines:	
540 RPM Machine Gearcases	
Tractor to Transfer	CAT 6 with 80° CV
Transfer to Center/Wing	CAT 5
1000 RPM Machine Gearcases	
Tractor to Transfer	CAT 5 with 80° CV
Transfer to Center/Wing	CAT 5
Driveline Protection: Preset Friction Torque Limiters	

Gearcase Power Rating:	
Transfer Gearcase:	200 hp - continuous 250 hp - peak
Center and Wing Gearcase:	175 hp - continuous 200 hp - peak
Brush Cutting Capacity: 4"	
Blade Holder:	Standard - 3/4" Blade Carrier
Blades:	Milled, 7-1/2" Overlap
Standard	1/2" x 5"
Optional	1/2" x 4"
Blade Tip Speed:	
540 PTO	Center 17,960 ft/minute Wing 17,030 ft/minute
1000 PTO	Center 17,670 ft/minute Wing 15,950 ft/minute
Wing Lift Hydraulics:	Standard - Single acting individual circuits
Hitch (Self-leveling):	
Standard	1-1/4" Precision Clamping System
Optional	1-1/8" Clevis Hitch
Suspension:	
Center:	Walking Axle and Rubber Spring
Wings: Standard	Single Wheel and Rubber Spring
Optional	Walking Axle and Rubber Spring
Wheels/Tires:	
Standard	5 Bolt 20x5.5 Laminated
Optional	5 Bolt 22x6.6 Aircraft (foam filled)
Optional	5 Bolt 22x6.6 Aircraft (air filled)
Chain Shield:	
Standard Double Row	5/16" GR 30
Optional Cable through Chain	1/4" Cable
Optional Accessories:	Light Kit, Wing Gauge Wheel, Toolbox



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