

FSA20-EQU18.0, ITEM# 218

MOWER: 15 FT. Flex Wing Rotary Mower

WOODS BW15.50 15' STANDARD DUTY FLEX WING ROTARY MOWER

P/N	DESCRIPTION	QTY
1045750MF	1 3/8" 540 rpm CV drive, single row chain shield, single spring on center deck wheel yoke	1 EA
1017310	Dual hub kit	1 EA
1017030F	29" Foam-filled Used Aircraft tires	6 EA

Bid Specifications



Woods BW15.50 Batwing Rotary Cutter

General: The specification is to describe a 15' flexible wing rotary cutter suitable for highway right-of-way, ditch, and roadside vegetation maintenance. The unit shall incorporate two 5' wings and a 6' center section. The unit shall be equipped with four gearboxes, four wheels, swivel clevis type hitch, two hydraulic wing cylinders, one hydraulic cut height adjustment cylinder, and adjustable parking jack.

Deck and Frame: The cutter shall be a pull type with three (3) sections hinged together with 6" blade overlap between sections to provide a cut width of no less than 15'. The blades shall cut the full width of the unit, and shall be so designed that no uncut areas will exist between each section. The cutter must be equipped with greaseable "quick change" blade pins. The top of the deck shall be free of structural members to keep water and debris from accumulating on the deck top. The top deck sheets shall be of not less than (0.135") 10-gauge steel. The frame structure shall be on the underside of the deck. The frame structure shall consist of full boxed in perimeter with curved leading edge rolled structural tubing. The lateral structure of each cutter section shall extend the full width. The wing pivot pins shall be greaseless, heat treated and a minimum of 1" dia. solid steel. The two skid shoes on the center deck and each wing skid shoe shall be replaceable. The depth of the deck side frame shall be 13" from the deck to the bottom of the side skid shoes. The side frame material shall be .25" in thickness. The cutter shall be fully baffled, with .179" high-strength steel baffles welded to the frame. The baffles must be rugged enough to withstand all mowing conditions encountered in heavy use.

Gearboxes and Clutches: The cutter shall have an input gearbox horsepower rating of a minimum of 210 hp. The spindle gearbox shall have a horsepower rating of a minimum of 200 hp. The blade spindle output shaft on each gearbox shall be 2.00" in diameter. Each blade spindle shall be equipped with an independent slip clutch in the event that the blades contact an immovable object. The clutches shall utilize two (2) friction discs. Gearboxes shall carry a 6-year limited warranty which covers defect in material and workmanship and includes the seals. The gearboxes shall utilize tapered roller bearings throughout. The lower neck of each gearbox shall have the seals protected by an anti-wrap device. An oil level dipstick shall be threaded into each gearbox to allow for oil level inspection. The spindle gearbox shall have a removable oil drain on the lower neck. The spindle gearbox shall have a lower seal which incorporates additional protection for rubber seal.

Drive Lines: The input drive from the tractor to the center gearbox shall be ASABE Category 6 Constant Velocity drive and the drive from the center gearbox to the wings shall be ASABE Category 4 and contain in-line driveline grease fittings. All drives shall be of North American manufacture. Drive line shields shall be metal and easy opening without tools or knobs.

Blade Rotation: The blade tip speed shall be 15,000 ft/min at 540 RPM or 16,000 ft/min at 1,000 RPM input from the tractor. The right and center sections shall rotate counter clockwise and the left deck rotate clockwise as viewed from above the deck facing the tractor. The cutter shall be capable of cutting material up to 2.5" in diameter. The cutter shall include full round stump jumpers no less than (.179") 7-gauge steel. Cross bar shall be 1" thick with 2 free swinging heat treated alloy steel updraft ½" thick blades per cross bar.

Hydraulic Equipment: The unit shall utilize a 3" bore by 10" stroke tie rod type cylinder for raising and lowering each wing. A single 3.5" bore by 8" stroke tie rod type cylinder shall be used to raise and lower the unit for cut heights from 2" to 15". Hoses shall be provided to connect the cylinders to the tractor and raised above the deck.

Wheels and Tires: Each unit shall be equipped with four (4) each 29" 5-bolt, foam-filled, used aircraft tires mounted on 5-hole, split pressed steel rims. The center section shall be equipped with single spring loaded wheel arm and wheels on each wheel arm with the ability to add an additional one wheel to each arm for dual center section wheels. The wing shall be equipped with a single wheel that shall trail within the cut width with the ability to add an additional one wheel for dual wing wheels.

Hitch: The hitch shall be a swivel clevis type self level-lift hitch. Dual 3/4" dia. leveling rods allow the deck to maintain proper cut attitude at all cut heights. The unit shall be equipped with a CV lift assist feature to add connecting input CV PTO shaft to tractor.

Parking Jack: A retractable pin-on type, hand operated, screw jack shall be provided to assist in the attachment of the cutter to the tractor. The jack attached to the tongue shall be perpendicular to the ground at any cut height. A second mount shall also be provided above the deck for jack storage when the cutter is attached to the tractor.

Bid Specifications



Safety: The unit shall be equipped with 5/16" chain guards located away from the front leading edge for durability and to adequately control thrown objects. All front and rear openings shall be covered with bolt-on chain guards that extend at least 1" below the blade line. The wings shall have a .75" pin to lock each wing in the upright position for transport. The unit shall also have a 1.25" pin to lock the center section in the raised position for transport. The mechanical transport locking mechanisms shall withstand the full weight of the components and relieve all stress from the hydraulic cylinders.



Woods BW15.50 Batwing Rotary Cutter Specifications

Cutting width	180"
Overall width	189"
Overall length	195"
Transport width	96"
Cutting height	2-15"
Cutting height adjustment	hydraulic cylinder
Cut capacity	2.5"
PTO hp minimum	45 hp
Weight	4,340 lbs
Tongue weight	1,200 lbs
Hitch	swivel clevis self level-lift
Deck type	smooth, sloped
Deck thickness	10-gauge (.135")
Side frame thickness	.25"
Side frame depth	13"
Deck shielding, front and rear	5/16" chain guards
Material flow system	fully baffled deck
Blade tip speed 540 rpm	15,000 fpm
Blade tip speed 1,000 rpm	16,000 fpm
Blade carrier	Round stump jumper, 1" cross bar
Blade type	.5"x4" quick-change blade pins
Blade overlap	6"
Wing flex	90° up, 22° down
Wing leveling adjust	turnbuckle
Hinge rod diameter	1" full length
Driveline rating: Main	Cat 6 CV
Driveline rating: Wing	Cat 4, slip clutch
Output shaft diameter	2.00"
Gearbox rating splitter	210 hp
Gearbox rating spindle	200 hp
Gearbox warranty	6-year
Suspension	single spring on center deck wheel yoke

WOODS BATWING® CUTTERS



We not only build the toughest Batwing®,
we build the only Batwing®

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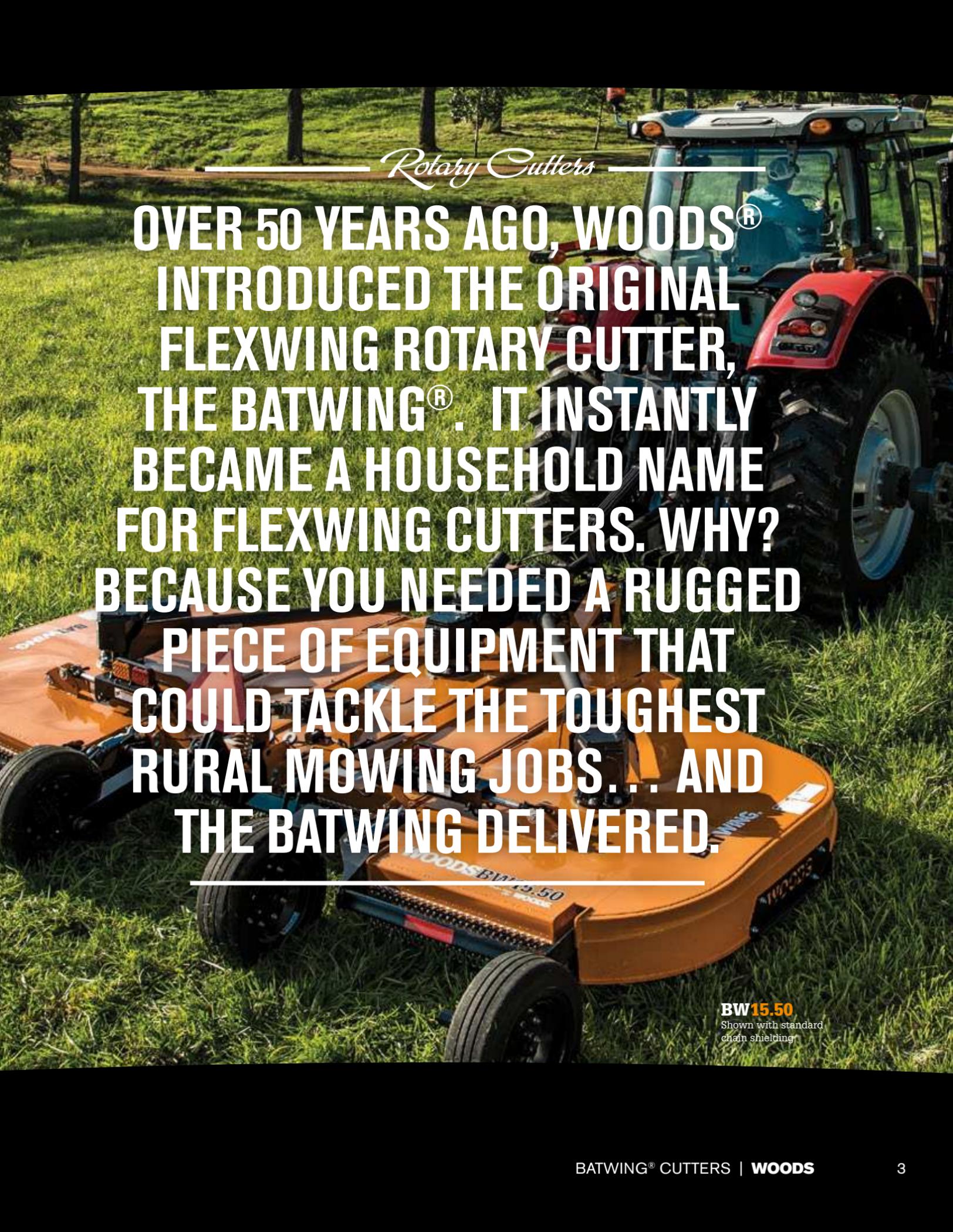
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Rotary Cutters

**OVER 50 YEARS AGO, WOODS®
INTRODUCED THE ORIGINAL
FLEXWING ROTARY CUTTER,
THE BATWING®. IT INSTANTLY
BECAME A HOUSEHOLD NAME
FOR FLEXWING CUTTERS. WHY?
BECAUSE YOU NEEDED A RUGGED
PIECE OF EQUIPMENT THAT
COULD TACKLE THE TOUGHEST
RURAL MOWING JOBS... AND
THE BATWING DELIVERED.**

BW15.50

Shown with standard
chain shielding

Batwing® Cutters



BW12
Shown with standard chain shielding



SPECIFICATIONS

MODEL	BW12
Tractor PTO HP	35 - 75
Cutting Height	2" - 12"
Cut Capacity (inches)	1.5"
Cutting Width (inches)	144"
Blade Tip Speed	14,300 fpm center / 14,900 fpm wing
Weight	2450 lbs
Tongue Weight	750 lbs
Center Deck / Wing Deck	12 gauge
Side Skirt Thickness	7 gauge
Side Skirt Depth	11"
Transport Width	96"
Stump Jumper	oval
Flex	90° up / 22° down
Driveline Rating	CAT 4 CV main CAT 3 wing
Splitter Gearbox Rating	160 hp
Wings Gearbox Rating	75 hp
Output Shaft Size	1.57" dia.
Gearbox Warranty	6 years

TRACTOR PTO HP RANGE: MINIMUM 35 HP

Model

BW12 | 12-foot Dual-wing Cutter for compact/utility tractors

Requiring a minimum of 35 hp, the BW12 gives you Woods quality and performance in a sleek, round-front design and our industry-leading sloped deck.

- Total weight 2,450 lbs with 750 lb tongue weight, ideal for use on lower horsepower compact and utility tractors.
- Twelve gauge, high-strength steel and smooth, sloped deck provide durability for long life.
- Fully baffled deck, ensures better distribution of cut material, and the performance you expect.
- Six-year gearbox warranty including seals, for confidence in your purchase decision.
- Standard chain shielding for added safety and peace of mind.
- Retail financing available to qualified buyers.

NOTE: All Batwing® models pass all applicable safety standards for thrown object without chain shielding. However, if these units will be used in areas where the possibility of thrown objects could be hazardous to persons or property, it is strongly recommended that standard chain shielding be used for extra protection.



TRACTOR PTO HP RANGE: 45 - 200 HP

Model

BW10.50/BW15.50 | 15-foot flex-wing rotary cutter

The BW15.50 is ideal for cutting tall grasses and saplings up to 2 1/2 inches in diameter.



Here are just a few features exclusive to Woods that rotary cutter users like you told us were important in our 15-foot series.

- New patent-pending driveline lift assistance system makes it easy to hook up. Standard on all models.
- Rounded wings easily maneuver around obstacles and slice through tall brush while the curved leading edge shrugs off impact.
- New gearbox seal technology reduces leaks and downtime and is backed by our six-year gearbox warranty, which includes the seals.
- A steel tube around the perimeter absorbs shock and creates a stronger, longer-lasting machine.
- Chain shielding is integrated with the frame to prevent damage.
- Greasable Quick-Change blade pins are easy to remove.



Designed with input from users like you, the BW15.50, BW15.60, BW15.70, and their one-winged models, set a new industry standard for durability, reliability, performance and ease. We think you'll agree that it's the best Batwing ever.

SPECIFICATIONS

MODEL	BW10.50* / BW15.50
Tractor PTO HP	45-200
Cutting Height	2" - 15"
Cut Capacity (inches)	2.5" dia
Cutting Width (inches)	126" / 180"
Blade Tip Speed	15,000 fpm at 540 rpm 16,000 fpm at 1000 rpm
Weight	4,040 lbs / 4,340 lbs
Tongue Weight	1,200 lbs
Center Deck / Wing Deck	10 gauge
Side Skirt Thickness	1/4"
Side Skirt Depth	13"
Transport Width	96"
Stump Jumper	round
Flex	90° up / 22° down
Driveline Rating	CAT 6 CV main CAT 4 wing
Splitter Gearbox Rating	210 hp
Wings Gearbox Rating	200 hp
Output Shaft Size	2" dia
Gearbox Warranty	6 years
Options	<ul style="list-style-type: none"> ▪ double row chain shielding ▪ dual wheels ▪ LED lights

*Single-wing

BW15.50

Shown with standard chain shielding



TRACTOR PTO HP RANGE: 55 - 275 HP

Models

BW10.60/BW15.60 | 15-foot flex-wing rotary cutter

The BW15.60 easily powers through tall brush and trees up to 4 inches in diameter.

TRACTOR PTO HP RANGE: 65 - 300 HP

Models

BW10.70/BW15.70 | 15-foot flex-wing rotary cutter

The rugged BW15.70 can tame the harshest conditions – heavy brush and trees up to 4.5 inches in diameter. Ideal for professional and contract cutting.

1 | Sloped Deck

Smooth and sloped seven-gauge steel decks shed water and debris; deck design and baffling helps recut material, ensuring a finer shred and more even distribution

2 | Gearboxes

Massive, heavy-duty gearboxes with 3-inch output shaft deliver more cutting power and performance with a six-year limited warranty



BW15.60

Shown with standard chain shielding

The new customer-designed 15-foot Batwing

SPECIFICATIONS		
MODEL	BW10.60* / BW15.60	BW10.70* / BW15.70
Tractor PTO HP	55-275	65-300
Cutting Height	2" - 15"	
Cutting Capacity (inches)	4" dia	4.5" dia
Cutting Width (inches)	126" - 180"	
Blade Tip Speed	15,700 fpm at 540 rpm 16,000 fpm at 1000 rpm	
Weight	4,400 lbs / 4,600 lbs	5,290 lbs / 5,500 lbs
Tongue Weight	1,350 lbs	1,490 lbs
Center Deck / Wing Deck	7 gauge	1/4"
Side Skirt Thickness	1/4"	
Side Skirt Depth	13"	
Transport Width	96"	
Stump Jumper	round	
Flex	90° up / 22° down	
Driveline Rating	CAT 6 CV main CAT 4 wing	CAT 6 CV main CAT 5 wing
Splitter Gearbox Rating	275 hp	
Wings Gearbox Rating	225 hp	
Output Shaft Size	3" dia	
Gearbox Warranty	6 years	
Options	<ul style="list-style-type: none"> ▪ double row chain shielding ▪ dual wheels ▪ LED lights ▪ shredding kit ▪ deck ring ▪ spring axle ▪ full walking tandem axles 	

*Single-wing

- Rounded wings easily maneuver around obstacles and slice through tall brush while the curved leading edge shrugs off impact.
- New gearbox seal technology reduces leaks and downtime and is backed by our six-year gearbox warranty, which includes the seals.
- A steel tube around the perimeter absorbs shock and creates a stronger, longer-lasting machine.
- Chain shielding is integrated with the frame to prevent damage.
- Greaseable Quick-Change blade pins are easy to remove.

Plus,

- Beefy, heavy-duty skid shoes prevent gouging and protect the deck.
- Strategically placed, welded baffles cut and distribute debris evenly.
- Center and wing decks feature high-strength 7 gauge steel (.60) or .26 inch thick steel (.70) for added durability.
- The side skirt is 13 inches deep and made of .25 inch thick steel for greater material capacity and the strength to manage it.
- For added toughness in extreme conditions, the .60 and .70 models have a 3-inch gearbox output shaft and optional deck ring.
- Other options include LED lights, double row chain shielding, dual wheels, and for the .60 and .70 models, a shredding kit for added versatility.

3 | Driveline

New patent-pending driveline lift assistance system makes it easy to hook up

4 | Skid Shoes

Bolt-on, heavy-duty skid shoes with an "approachable" leading edge reduce sod damage when turning

BW15.70

Shown with standard chain shielding

***NOTE:** Woods Batwing® models pass all applicable safety standards for thrown object and blade contact without chain shielding. However, if these units will be used in areas where the possibility of thrown objects could be hazardous to persons or property, it is strongly recommended that optional chain shielding be used for extra protection.

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Batwing® Cutters

THE BEST BATWING® YOU EVER DESIGNED.

BEST BATWING EVER



You told us what you wanted in a rotary cutter and we delivered. It's more reliable, more durable, easier to use, easier to maintain and built to perform better. A variety of Woods-exclusive features make it outstanding in its field.

“I WANT A QUICK AND EASY TRACTOR HOOK-UP”

Steve McCullough, Watseka, Illinois
Third Generation Family-owned Dealership and
Batwing® Designer

EASY-TO-USE

- ① New patent-pending driveline lift assistance system makes it easy to hook up - and is standard on all models.



“I WANT A MACHINE THAT WILL LAST”

DURABILITY

- ① Steel Tube Frame Absorbs Shock
- ② Integrated Chain Shielding Prevents Damage
- ③ Heavy-Duty Skid Shoes

RELIABILITY

- ① New, advanced gearbox seal technology, designed for harsh conditions, reduces leaks and downtime and is backed by our six-year gearbox warranty - which includes the seals.

“I WANT TO CUT MORE AND MAINTAIN LESS”

Ben Faivre, Polo, Illinois
Farmer and Batwing® Designer



EASY MAINTENANCE

- ① Industry Leading Smooth, Sloped Deck
- ② Raised Components and Protected Hoses
- ③ Hinged, Easy-open Metal Shields
- ④ Easy-to-reach Grease Fittings
- ⑤ Greasable Quick-Change Blade Pins



“I WANT TO GET RID OF DEBRIS COLLECTING ON THE DECK”

Shawn Schaaf, Rock City, Illinois
Rock Run Township Highway Commissioner
and Batwing® Designer



“KEEP THE GREAT CUT QUALITY AND HELP ME MOW CLOSER TO TREES AND POLES”

PERFORMANCE

- ① Rounded Wings
- ② Curved Leading Edge
- ③ Optional Shredding Kit Adds Two Blades
- ④ Calculated Positioning of Welded Baffles



Batwing® Cutters

1 | Greasable Pivot Pins

Greasable pivot points are located on turnbuckle and axle arms to increase durability and reduce wear

SPECIFICATIONS			20-FOOT BATWING	
MODEL	BW240X		BW240XHD	
Tractor PTO HP	70-200 hp		70-300 hp	
Cutting Height	2" - 15"			
Cut Capacity (inches)	2"		3"	
Cutting Width (inches)	240"			
Blade Tip Speed	15,450 fpm at 540 rpm 16,300 fpm at 1000 rpm			
Weight	6,510 lbs		6,600 lbs	
Tongue Weight	1,950 lbs		1,980 lbs	
Center Deck / Wing Deck	10 gauge			
Side Skirt Thickness	1/4"			
Side Skirt Depth	13.25"			
Transport Width	123"			
Stump Jumper	Round			
Flex	90° up / 22° down			
Driveline Rating	CAT 6 CV main CAT 4 wing			
Splitter Gearbox Rating	250 hp			
Wings Gearbox Rating	120 hp		205 hp	
Output Shaft Size	2"		2.38"	
Gearbox Warranty	6 years			
Options	<ul style="list-style-type: none"> double row chain shielding dual wheels LED lights full walking tandem axles 		<ul style="list-style-type: none"> double row chain shielding dual wheels LED lights full walking tandem axles shredding kit 	



BW240X

Shown with standard chain shielding

TRACTOR PTO HP RANGE: 70 - 200 HP

Model

BW240X | 20-foot Dual-wing Cutter

- Main driveline: Cat 6 CV
- Cuts brush up to 2 inches in diameter
- Walking tandem axle available

2 | Deep Side Frame

Side frame depth 13.25 inches — the deepest in the industry

TRACTOR PTO HP RANGE: 70 - 300 HP

Model

BW240XHD | 20-foot Dual-wing Cutter

- Maintain driveline: Cat 6 CV
- Cuts brush up to 3 inches in diameter
- Side frame depth of 13.25 inches — the deepest in the industry
- Optional shredding kit



TRACTOR PTO HP RANGE: 70 - 300 HP

Models

BW1620X | 13.5-foot Single-wing Cutter (162-inch cutting swath)

BW2400X | 20-foot Dual-wing Cutter (240-inch cutting swath)

- Main driveline: Cat 6 CV
- Deck plate has two layers of .135" plate
- Cuts brush up to 4 inches in diameter
- Side frame depth of 12.5 inches
- Optional dual tires available for wings
- Optional shredder kit or optional
- Optional blade ring
- Six-year gearbox limited warranty

BW240XHD

Shown with standard chain shielding

Features a double deck, built extra heavy to handle a host of rugged applications.



3 | Quick-change Blade System

Woods' exclusive Quick-Change blade system allows for easy changing of blades from the top of the deck

SPECIFICATIONS		20-FOOT BATWING	
MODEL	BW1620X*		BW2400X
Tractor PTO HP	70–300 hp		
Cutting Height	2" - 15"		
Cut Capacity (inches)	4"		
Cutting Width	162"	240"	
Blade Tip Speed	15,450 fpm at 540 rpm 16,300 fpm at 1000 rpm	15,450 fpm at 540 rpm 16,650 fpm at 1000 rpm	
Weight	8,500 lbs	7,740 lbs	
Tongue Weight	2,250 lbs	2,320 lbs	
Center Deck / Wing Deck	10 gauge double		
Side Skirt Thickness	1/4"		
Side Skirt Depth	13.25"	12.50"	
Transport Width	123"	100" / 123"	
Stump Jumper	Round		
Flex	90° up / 22° down		
Driveline Rating	CAT 6 CV main CAT 5 wing		
Splitter Gearbox Rating	250 hp		
Wing Gearbox Rating	210 hp		
Output Shaft Size	2.38"		
Gearbox Warranty	6 years		
Options	<ul style="list-style-type: none">▪ double row chain shielding▪ dual wheels▪ LED lights▪ full walking tandem axles▪ shredding kit▪ deck rings	<ul style="list-style-type: none">▪ double row chain shielding▪ dual wheels▪ LED lights▪ full walking tandem axles▪ shredding kit▪ deck rings	

*Single-wing

NOTE: All Batwing® models pass all applicable safety standards for thrown object without chain shielding. However, if these units will be used in areas where the possibility of thrown objects could be hazardous to persons or property, it is strongly recommended that chain shielding be used for extra protection.



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