

Maxim II Air Drill

Specifications and Options

Base Size	3 Frame Models		5 Frame Models	
	34' (10.36 m)	39' (11.89 m)	49' (14.94 m)	60' (18.29 m)
Weight (3 1/2" Steel Packers with Edge-On Shank)				
- 7 1/2" Spacing	17,039 lbs.	18,952 lbs.	25,257 lbs.	N/A
19.0 cm Spacing	7,745 kg	8,615 kg	11,480 kg	N/A
- 10" Spacing	15,025 lbs.	16,946 lbs.	22,550 lbs.	28,801 lbs.
25.4 cm Spacing	6,830 kg	7,703 kg	10,250 kg	13,091 kg
- 12" Spacing	14,151 lbs.	16,003 lbs.	20,909 lbs.	27,294 lbs.
30.5 cm Spacing	6,432 kg	7,274 kg	9,504 kg	12,406 kg
Working Width				
- 7 1/2" (19.0 cm) Spacing	34' 5" (10.49 m)	39' 5" (12.01 m)	49' 5" (15.06 m)	N/A
- 10" (25.4 cm) Spacing	35' (10.67 m)	40' (12.19 m)	50' (15.24 m)	60' (18.29 m)
- 12" (30.5 cm) Spacing	35' (10.67 m)	41' (12.50 m)	49' (14.93 m)	61' (18.59 m)
Number of Shanks				
- 7 1/2" (19.0 cm)	55	63	79	N/A
- 10" (25.4 cm)	42	48	60	72
- 12" (30.5 cm)	35	41	49	61
Frame Width				
- Main	14' 6" (4.42 m)	14' 6" (4.42 m)	14' 6" (4.42 m)	14' 6" (4.42 m)
- Inner Wing	10' (3.05 m)	12' 6" (3.81 m)	10' (3.05 m)	12' 6" (3.81 m)
- Outer Wing	N/A	N/A	7' 6" (2.29 m)	10' (3.05 m)
Overall Length	25' 8" (7.82 m)	25' 8" (7.82 m)	29' 7" (9.02 m)	29' 7" (9.02 m)
Transport Position				
- Width	19' 10" (6.03 m)	19' 10" (6.03 m)	22' 6" (6.86 m)	24' 6" (7.47 m)
- Height	14' 1" (4.29 m)	16' 7" (5.06 m)	17' 6" (5.33 m)	17' (5.18 m)
Tires				
- Main Frame Castor Wheel	(2) 11L x 15 FI Load Range D	(2) 11L x 15 FI Load Range D	(2) 11L x 15 FI Load Range D	(2) 12.5L x 15 FI Load Range F
- Inner Wing Frame Castor Wheel (2 per wing)	(4) 11L x 15 6 ply rating	(4) 11L x 15 6 ply rating	(4) 11L x 15 6 ply rating	(4) 11L x 15 6 ply rating
- Outer Wing Frame Castor Wheel (2 per wing)	N/A	N/A	(4) 11L x 15 6 ply rating	(4) 11L x 15 6 ply rating
- Main Frame Transport Wheels	(4) 11L x 15 FI Load Range D 6 Bolt Hub	(4) 11L x 15 FI Load Range F 8 Bolt Hub	(4) 11L x 15 FI Load Range F 8 Bolt Hub	(4) 12.5L x 15 FI Load Range F 8 Bolt Hub
Dual Castor Wheels on Wings	Standard			
Number of Ranks	7 1/2" (19.0 cm) Spacing - 4 row "Z" Pattern 10" (25.4 cm) & 12" (30.5 cm) Spacing - 4 row			
Trip Mechanism	400 lb (180 kg) Spring Cushion Trip with 1 (2.54 cm) x 2" (5.1 cm) shank			
Shank Options	Forged Edge-On Conventional 'C' Shank (1 3/4" (4.4 cm) hole spacing) (47 Degree tillage tools)			
Packer Wheel Options	3 1/2" (8.9 cm) Steel or Rubber - (7 1/2" (19.0 cm), 10" (25.4 cm) & 12" (30.5 cm) Spacing) 4 1/2" (11.4 cm) Steel or Rubber - (10" (25.4 cm) & 12" (30.5 cm) Spacing ONLY)			
Frame to Opener	Vertical Clearance - 27 1/2" with Regular Hoe Point - 30 1/2" with Double Shoot/Knife Openers			
Rank to Rank Spacing	24" (61.0 cm)			
Shank to Shank Spacing	30" (76.2 cm) on 7 1/2" (19.0 cm) & 10" (25.4 cm) spacing, 36" (91.4 cm) on 12" (30.5 cm) spacing			
Frame Depth	76" (1.93 m) (4 ranks)			
2-Bar Harrows	Optional (3 Row 10" (25.4 cm) Spacing ONLY)			
Packer Mud Scrapers	Optional (For both Steel and Rubber Packers)			
Rock Deflectors	Optional (7 1/2" (19.0 cm), 10" (25.4 cm) & 12" (30.5 cm) Spacing)			
Safety Lights	Standard			
Safety Chain	Standard			



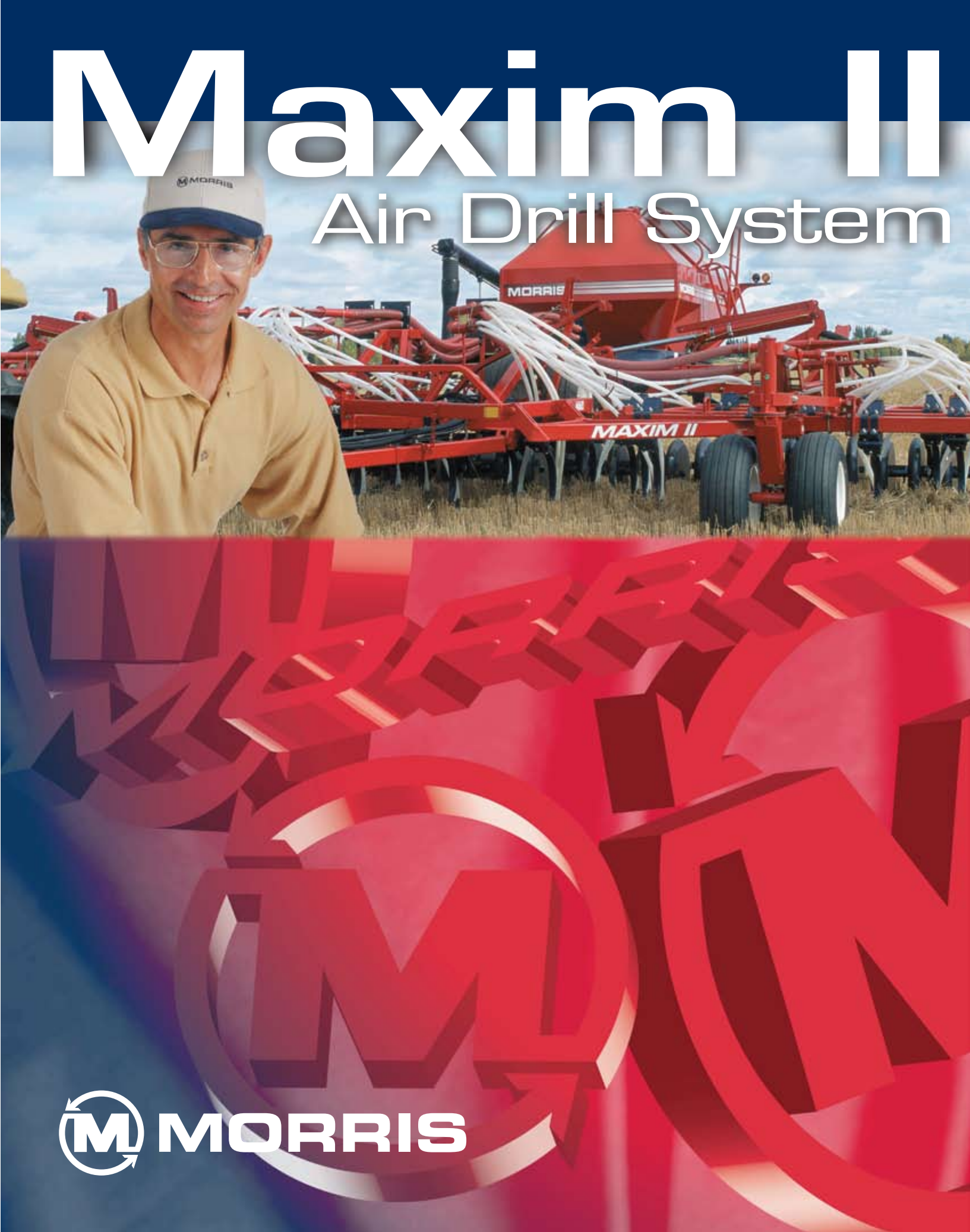
CORPORATE OFFICE & TRAINING CENTRE - 2131 Airport Drive, Saskatoon, SK Canada S7L 7E1

Tel: 306.933.8585 Fax: 306.933.8626 U.S.A. Toll-Free: 1.866.663.8515

www.morris-industries.com Questions? email: info@morris-industries.com

The policy of MORRIS INDUSTRIES LTD. is one of continuing improvement, therefore, the company reserves the right to change any specification without notice.

PRINTED IN CANADA 1010.500



Morris Industries
meets and exceeds
customer needs
and expectations
by providing superior
value through
leading-edge, highest
quality products
and services.

A 70 Year Legacy of Quality & Value

Morris Industries' focus on and commitment to understanding the needs of farm customers has propelled the Company to the forefront of air seeding and tillage technology.

For over 70 years, Morris has been "Doing the right thing at the right time." From the invention of the automatic trip release in the late twenties, to the revolutionary Morris Seed-Rite hoe drill, to today's innovative, state-of-the-art air drills and seeding systems, Morris has led the way.

This legacy continues with the next generation of Morris air drill, the Maxim II. Based on the superb features of our single pass Maxim Air Drill, the Maxim II raises the bar on accuracy and dependability.

Even greater accuracy of seed and fertilizer placement is realized by the introduction of offset dual gauge wheels on the wing sections as well as the main frame. Morris' dual wheels walk right over clumps and rocks, reducing frame bounce for consistent, even seeding depth.

The Maxim II's new, heavy-duty one inch shank keeps the ground openers parallel and in the ground for optimum seed placement and superior product separation when using Morris' dual shoot openers.

Customers will appreciate the adjustable packer brackets that make side to side levelling a quick and simple adjustment.

New stronger frames and trusses, combined with the Morris one inch shank and field proven Morris 400 lb. spring cushion trip, will provide years of trouble free service on the toughest terrain.

For convenience and safety, a new single point wing latch securely fastens the wings in transport. The locking mechanism is safely located at the rear of the machine.

Like its predecessor, the Maxim II delivers on value, versatility, and dependability. The Maxim II is adaptable to no-till, minimum-till and conventional tillage practices. By changing options, the Maxim II moves easily from one discipline to the next.

Morris has the right ground opener/packer combinations to plant virtually any crop in any type of soil. And with the ability to seed, fertilize and pack in one operation, the Maxim II significantly cuts input costs and labor.

The Maxim II is built to last longer. Heavier packer tubing, improved wing lift geometry and added hitch trussing on the larger units provide greater strength and reliability. It not only looks tough, it's built tough.

The Morris Maxim II offers the latest in design and workmanship. Higher corrosion resistant hardware, precision fit laser cut components and robotic welding all add to the overall integrity and durability of this state-of-the-art seeding system.



Patented Frame Coupling for unmatched **Flexibility**

Morris has engineered the most flexible air drill on the market, far exceeding the competition. With its patented frame coupling system, the Maxim II Air Drill assures farmers the ultimate in contourability.

Individual frames are attached to the tow bar by a single universal ball joint. Rear stabilizers ensure proper tracking in work position for fully flexible front-to-back and side-to-side contouring. The result is reliable, optimum seed and fertilizer placement to get your crop off to a healthy start.

The Maxim II's short contour length coupled with a true floating hitch allows the frame to accurately follow uneven land.

The Maxim II Air Drill is available in three and five frame models to meet the needs of your farming operation.



"Quick Adjust" packer brackets make levelling a quick and simple task.



Offset dual gauge wheels walk right over clumps and rocks, reducing frame bounce for consistent seed depth.



Patented frame coupling provides incredible contourability.

Locked in Depth Control

For Consistent Results



Depth stop collars ensure precise depth setting across the entire machine.

A simple, adjustable collar depth stop system ensures precise and uniform product placement across the entire air drill. A single turn of the depth stop adjustment equals $\frac{3}{16}$ " working depth change. Once set, consistent depth is locked in across the width of the machine.

With transport wheels elevated, depth is controlled by strong, durable front gauge wheels and rear packer wheels. The result is excellent depth control with the advantage of on-row packing for all seeding conditions.

What you get is consistent results and the best possible start for your crops.



The Maxim II's clean, unobstructed under carriage allows heavy trash to flow through.

The Clear Choice for Clearance

The move to more conservation tillage has created another challenge for farmers - trash or residue build-up which can greatly effect seeding depth and consistency.

Morris engineers have met this challenge head on by designing in-frame transport wheels that elevate above the frame in field position, resulting in a clean, unobstructed underframe. When lowered, these wheels provide excellent clearance while travelling on crowned roads.

A unique trip pattern on a four-row configuration, combined with the use of Morris Edge-on shanks, provides optimum trash flow in heavy stubble or surface residue conditions.



Safety in Transport

For operator convenience and safety, a single point wing lock securely fastens the wings in transport. The locking mechanism is engaged by a lever safely located at the rear of the machine.

In transport, the in-frame dual wheel arrangement greatly reduces the load on the front gauge wheels. Optimized geometry on the wing lift mechanism reduces stress on the components for longer life and reduced maintenance.

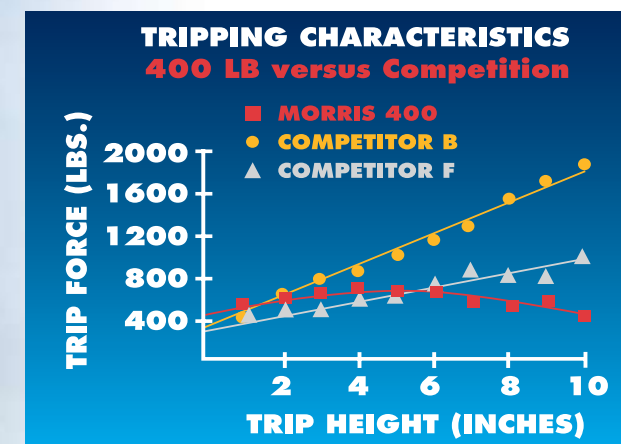


Wing locking lever is safely and conveniently located at the rear of the machine.

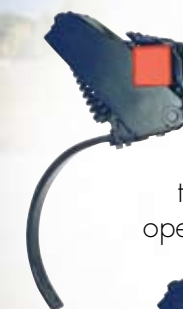
New One Inch Shank for Added Durability

After millions of acres, the Morris 400 lb. Spring Cushion Trip has proven its versatility and durability. With the addition of Morris' new one inch shank, you now have a trip assembly that can take the punishment of the toughest field conditions.

The trip assembly is ideally suited for direct seeding, minimum tillage or conventional seeding operations. The unique tripping characteristic of the Morris Spring Cushion Trip reduces stress on the trip components and frame, extending the service life of your machine.

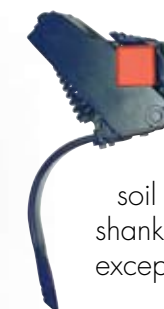


Starting with a trip force of 400 lbs. and building to a maximum of 600 lbs. at a four inch tripping height, the force drops to 370 lbs. at a maximum trip height of 10 inches.



"C" Shank

Morris offers a choice of shank styles to best suit your needs. The conventional "C" shank facilitates the use of many traditional sweeps and openers available on the market.



"Edge-On" Shank

For heavy surface residue conditions and minimum soil disturbance, the "Edge-on" shank slices through trash, providing exceptional trash clearance.

Morris Openers

Ensure Accurate Placement & Separation

Single Shoot "Edge-on" Openers



ACRA POINT OPENER (S32350)

The Acra Point opener is used on the forged "Edge-on" shank. This opener has a replaceable chrome tip (Eagle Beak). The Eagle Beak makes a "V" opening for minimal seed spread. Use this opener in most soil conditions and with either 2", 3 1/2" or 4 1/2" packer wheels. This assembly allows the interchange of the Eagle Beak or cast sweep.

3 1/2" shovel (S32010)

This 3 1/2" shovel has a replaceable chrome tip for extended wear capacity. The seed spread is 3" with this opener. With the increased seed bed utilization, higher rates of nitrogen can be placed with the seed. Use this opener in most soil conditions with 3 1/2" or 4 1/2" packer wheels. This assembly allows the interchange of the Eagle Beak or cast sweep.

HOE POINT OPENER (S30495)

The Hoe Point opener has a chrome tip for added wear life. The Hoe Point opener has a seed spread of approximately 1 5/8". Use this opener in all soil conditions and with either 2", 3 1/2", or 4 1/2" packer wheels.



Double Shoot "Edge-on" Openers



"GUMBO BOOT" - Paired Row (S28158) - "Edge-on" Shank

This paired row dual shoot opener has a replaceable chrome tip, which is adjustable for wear and fertilizer placement. The fertilizer is placed between and at an adjustable depth of 3/4" - 1 1/2" - 2 1/4" below the seed rows. A replaceable deflector plate opens the soil for the seed, at the same time closing the fertilizer opening, ensuring seed/fertilizer separation. The seed is placed in two rows 2 1/2" apart with a seed spread of approximately 1". Use this opener in all soil conditions and with 3 1/2" or 4 1/2" packer wheels.

Double Shoot "C" Shank Openers



"GUMBO BOOT" - Side Band (S29000) - "Edge-on" Shank

This dual shoot opener has a replaceable chrome tip, which is adjustable for wear and fertilizer placement. The fertilizer is placed 1 1/4" to the side and at adjustable depths of 3/4" - 1 1/2" - 2 1/4" below the seed rows. A replaceable deflector plate opens the soil for the seed, at the same time closing the fertilizer opening, ensuring seed/fertilizer separation. The seed spread is approximately 1" with this opener. Use it in all soil conditions and with either 2", 3 1/2" or 4 1/2" packer wheels.

"GUMBO BOOT" - Paired Row (S25962) - "C" Shank

This paired row dual shoot opener fits all shanks with a 1 3/4" or 2 1/4" hole spacing. It features a replaceable chrome tip which is adjustable for wear and fertilizer placement. The fertilizer is placed between and at an adjustable depth of 3/4" - 1 1/2" - 2 1/4" below the seed rows. A replaceable deflector plate opens the soil for the seed, at the same time closing the fertilizer opening, ensuring seed/fertilizer separation. The seed is placed in two rows 2 1/2" apart with a seed spread of approximately 1". Use this opener in all soil conditions with 3 1/2" or 4 1/2" packer wheels.

"GUMBO BOOT" - Side Band (S29140) - "C" Shank

This dual shoot opener fits all shanks with a 1 3/4" or 2 1/4" hole spacing. It has a replaceable chrome tip, which is adjustable for wear and fertilizer placement. The fertilizer is placed 1 1/4" to the side and at an adjustable depth of 3/4" - 1 1/2" - 2 1/4" below the seed rows. A replaceable deflector plate opens the soil for the seed at the same time closing the fertilizer opening, ensuring seed/fertilizer separation. The seed spread is approximately 1". Use this opener in all soil conditions and with either 2", 3 1/2" or 4 1/2" packer wheels.

SIDE PLATE KIT (S30927) - "C" Shank (S30928) - "Edge-on" Shank

The Side Plate Kit is designed for existing Morris Gumbo Boots (S25962, S28158, S29000, S29140) & (S25962C, S28158C, S29000C, S29140C). The side plates will protect the sides of the openers in abrasive soil conditions, greatly extending the life of the opener body. Each kit includes a left and right side plate, two longer bolts and flange lock nuts.

The application of anhydrous or liquid fertilizer is available with Morris double shoot openers. Note: Safe levels of actual nitrogen will vary with soil conditions at the time of application. Consult your local agronomist for recommended levels in your area.

For "Edge-on" shank openers a grommet insert provides a positive seal for the 1/2" poly tube. On conventional "C" shank openers the poly tube inserts down the standard fertilizer tube providing a positive seal.

On-Row Packing For Excellent Seed-To-Soil Contact



Morris offers a full range of durable rubber and steel packer wheels with reinforced hubs to give you the flexibility to operate in a variety of soil and moisture conditions. Choose from widths of 2", 3 1/2" and 4 1/2". Rubber packer wheels are effective in heavy or sticky soil conditions, helping prevent soil build-up.

Optional rock deflector and mud scrapers are available. The Maxim II's packer wheel systems assure excellent seed-to-soil contact for quicker and more uniform germination. And, thanks to the design of individual gang packer wheels and the use of narrow openers, weed competition between the seed rows is greatly reduced.

Narrow packer wheel gangs allow better seed-to-soil contact and superior contouring. The packer wheel gangs feature a simple and very durable pivoting system for low maintenance and added life. With heavier 4" x 6" x 1/4" packer tubes, the Maxim II is built for durability and lasting service.

The 2" packer wheels are designed to be used with narrow openers, for minimum and no-till operations. The 3 1/2" and 4 1/2" packer wheels complement a full range of Morris paired-row openers and broadcast openers that you can incorporate in your seeding operations.

4 1/2" Packer Wheels

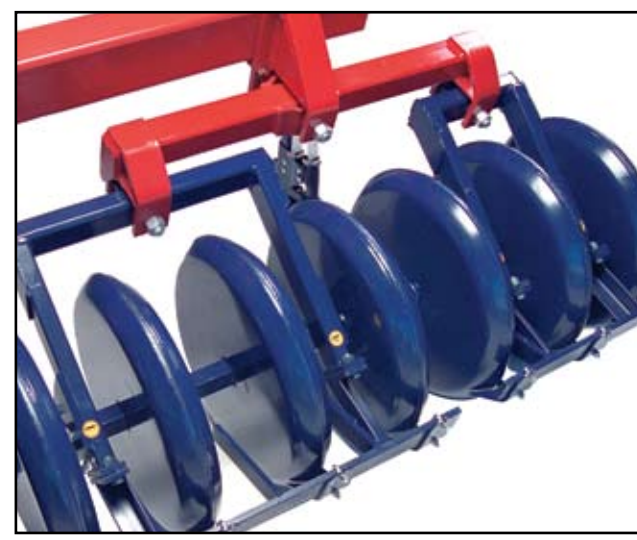


3 1/2" Packer Wheels



Rock Deflectors

Maximize your machine's life with a solid rock deflector attachment, designed to prevent rock intervention and damage to the packer wheels.



Mud Scrapers

The mud scraper option eliminates build-up on packer wheels which may affect seeding depth and result in uneven germination. Mud scrapers are available for both steel and rubber packer wheels.

Customer Specific Needs

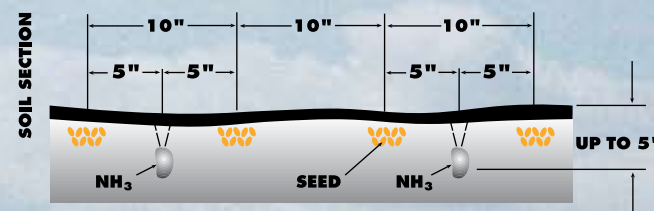
New Angle Disc Fertilizer Coulter

The Morris Angle Disc Fertilizer Coulter is a minimal disturbance ground opener used to apply high rates of fertilizer in a positive and safe location relative to the seed, thus allowing you to apply the product where it will do the most good.

The Morris Maxim II, equipped with these coulters, provides the best in center-placed banding. Available on machines with 10" spacing, the coulters are mounted on the front two rows, wherever possible, to allow the soil flow created by the trailing seed boots to cover the slot created by the 20" angle disc. Tine closers are used when this is not possible. The assembly can be configured to apply NH_3 , liquid or granular fertilizer. Fertilizer depth is controlled by the soil retaining wheel with a simple ratchet assembly for precise incremental adjustment.

The unique scraper design allows application of high rates at higher speeds, leaving a tight band of fertilizer where it's required.

When not required, the Angle Disc Fertilizer Coulter can be pinned up in a simple one step operation, eliminating unnecessary wear. The coulters will operate with all the ground openers currently offered for the Maxim II.



Levelling Harrows

Two-bar bent or straight tine levelling harrows, mounted to the rear bar, are available for Maxim II Air Drills with 10" spacing. The harrows allow you to level out surface residue common in minimum till practices, and provide excellent levelling in conventional tillage situations. The levelling harrows, combined with tillage tools, eliminate the need to pre-work your fields for weed kill prior to seeding, saving time and labor.

