



# ADMIRAL



## HEAVY-DUTY SPEED DISC

*Not your ordinary speed disc!*

# ADMIRAL

## MANAGING CROP RESIDUES PROFITABLY

Maschio Gaspardo engineers know the importance of planting into the best possible seed bed to achieve early, even crop emergence that is key for increased profitability. This is the reason why they designed the ADMIRAL speed disc to accomplish several actions in the field:

- **Residue sizing** – Aggressive notched blades (24-in. discs with 22° of inclination) with an overall spacing of 20-in. slice through crop residue to effectively size it for rapid decomposition.
- **Residue blending** – The high-speed rotation of discs turns the soil while chopping residue. This results in an ideal mixture of tilled soil with properly sized residue.
- **Oxygen introduction/warming** – As the soil and residue are mixed, oxygen enters the tilled zone and in cooler soils the action also warms the seed zone for rapid crop rooting and emergence.
- **Activation of soil bacteria** – Thanks to the concave discs action the soil is warmed and oxygen is introduced, soil bacteria become active and feed on crop residue. During this process, the residue decomposes and the nutrients become available for new planting.
- **Finishing** – Consolidating the soil/residue mix helps bacteria break down residue better, producing an ideal seedbed, preventing erosion and creating a capillary effect to preserve moisture.



# NOT YOUR ORDINARY SPEED DISC

## VERSATILITY FOR VARYING TILLAGE NEEDS

Whether you need primary tillage for the heaviest soils or secondary tillage for uniform seedbed preparation — or a dual-purpose speed disc for both — the all-new Maschio ADMIRAL Series has the right tool for you.

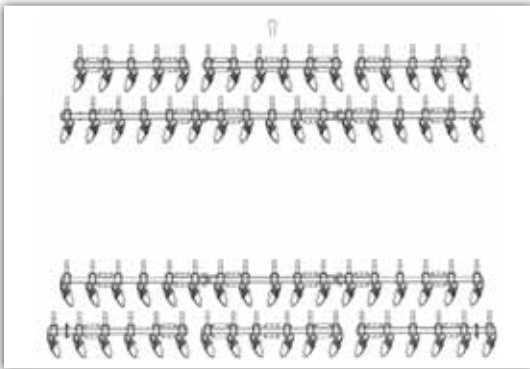
ADMIRAL is available with a working width of 28-ft. the individually mounted large discs (Ø 24-in.), with their inclination (22°) and low concavity, are arranged in a unique 'X disposition' for aggressive sizing and chopping ability in tough residue at high speed (8-12 mph) with no clogging issues. The 'grand finale' is a matter of beauty; thanks to the coil tine harrows and the rear roller (blade or cage), you will see a consistent finish across the entire width of the unit.

### MAXIMUM VERSATILITY

**CORN****SOYBEAN****WHEAT****RICE****COVER CROPS****SOIL REFINEMENT**

# ADMIRAL

## SUPERB CHOPPING AND INTENSE MIXING



### Discs lay-out

ADMIRAL 850 Series features with 68 discs individually mounted on 4 gangs and 20-in. spaced. The huge tool bar clearance ensures a smooth residue flow, even on the highest yielding fields or wet, sticky soils, eliminating any clogging issues. The great 'X-layout' of the discs, with the blades split in the center that throw out to both sides in the front and throw in from both sides in the back, prevents any drift effects.



### Disc diameter and concavity

The 24-in. diameter solid, notched discs and are 1/8-in. thick. They are made in high tensile boron steel and have a soil contact which is four times wider than the smaller diameter discs. The discs concavity ensures better soil straw mixing, even on a very high density residues, then conventional vertical discs.



### Perfect cutting angle

The 22° cutting angle, the disc shape and spacing ensure an optimal cutting quality even in the toughest working conditions.



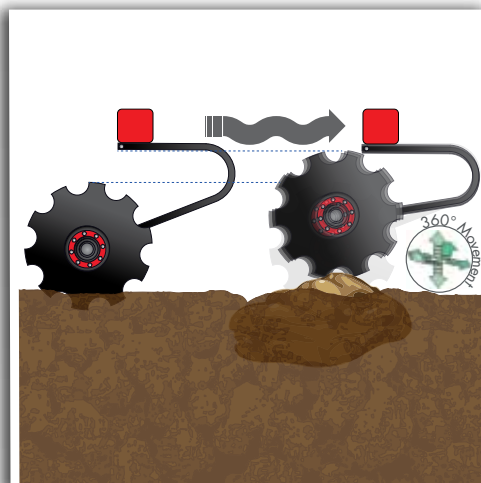
### Adjustable side retaining discs

Easily adjustable side discs (in depth and inclination) allow a perfect soil retention even with heavy crop residues, preparing an optimal seed bed and leaving a nice flat finish (no side ridges or furrows). The special bolt-on side supports limit the containing disc oscillations, reducing frame damages and wearing.



### C-shaped spring

Each disc hub is mounted on an individual heavy-duty C spring support. The special C shape produces a permanent 3D vibration which improves soil refinement and residues incorporation. The spring arm allows an independent action of each disc and compensates for varying ground conditions as discs can move upwards and sideways.



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## LONG LASTING PERFORMANCE MAINTENANCE FREE

### CULTIHUB UNIT: 5-YEAR WARRANTY



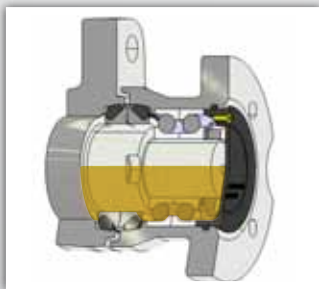
#### External cap

External cap ensures total protection against dust and moisture.



#### Special bearings

The disc hub is fitted with angular contact ball bearings which increase load capacity by 20% in relation to other makes.



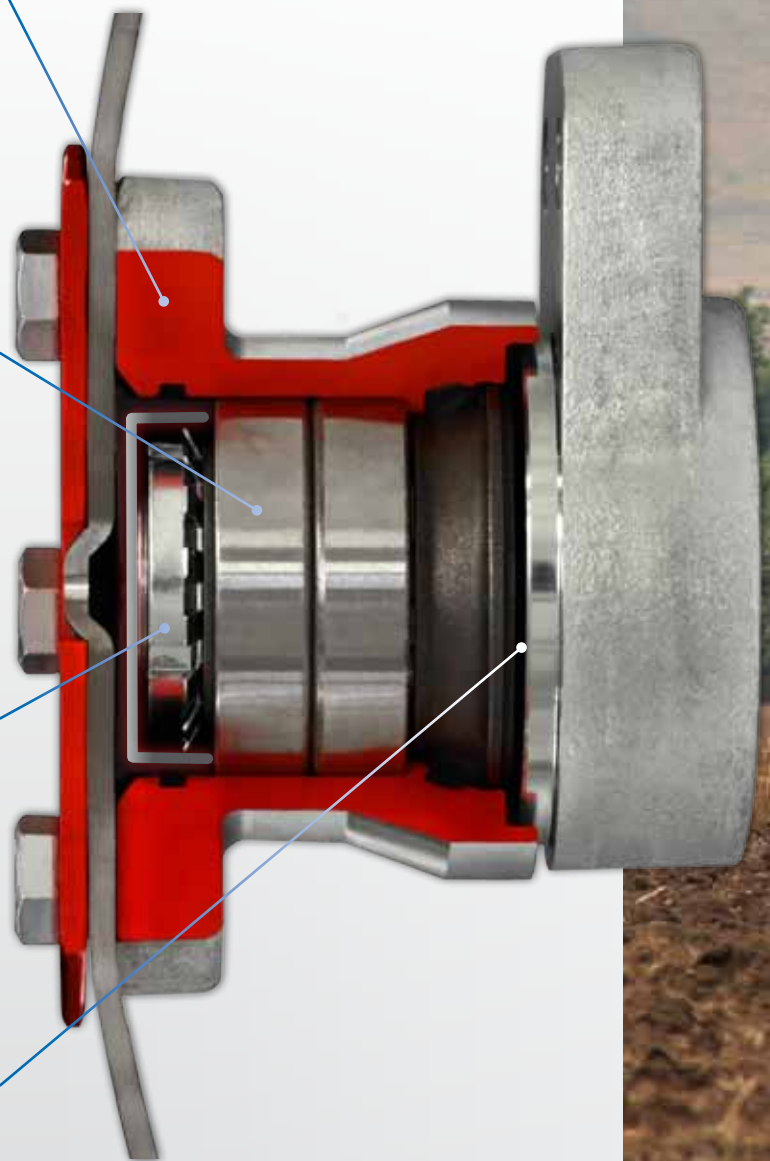
#### Oil bath lubrication

The sealed hub is in oil bath which enhances seals and bearings performance allowing maintenance free operations: no need to pump grease!



#### Face contact seals

Two metal sealing rings floating in position and two elastomeric load rings provide positive sealing contact allowing lubricant retention and excluding any contamination.





### **Reduced downtime**

The ADMIRAL employs cast iron elements and hard tempered pins reduce friction and wear in rough field conditions, improving reliability and reducing service time. This speed discs features with fewer grease points than major competitors resulting in less, time-extensive maintenance and improving field productivity.



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## MAKING THE PERFECT SEEDBED

Maschio has discovered that growers can dramatically reduce the risk of emergence problems in the spring by reducing clod sizes and ridges during seed preparation process. That's why we equipped ADMIRAL with levelling coil tine harrows and spring-loaded rear rollers to provide the most levelled and finished seedbed at your planter.

- **3-bar coil-tine harrow**

The 3-bar coil-tine harrow is integrally mounted into the frame. This makes a much stronger mount – eliminating additional torsional stress on the gang tubes. The spring-dampened parallelogram connection system ensures superior soil adaptation and levelling/firming actions.

- **Blade or cage roller**

The crumble roller has durable blades to size any remaining large clods before planting. The blade angle is pre-set for optimum performance for both spring and fall. Thanks to the special bar pitch, the cage roller offer a perfect soil refinement in tough, dry conditions, and moderate firming of soil.





# EASY SETTINGS

A **single-point depth control** maintains a constant blade operating depth for a planter-ready seed bed. Adjust it using a simple hand crank located conveniently at the front of the machine.



The **inclination of the tine harrows** can be adjusted easily by pins. The straightest position is suggested for dry conditions with few residues typical of spring operations while the most angle one for fall tillage in presence of many wet straws.



You can easily adjust the **roller down force** to match field conditions thanks to a logical pin system.



# ADMIRAL

## BUILT TO TAKE EVERY CONDITION



### **TOOLBAR**

The main frame is formed from 7" x 7" Tubular steel to provide strength and rigidity. The one-piece center frame rocker assembly between the central walking tandems reduces frame stresses providing a more positive lifting force.



### **FLOATING WINGS**

ADMIRAL wings can float up and down to insure a consistent tillage depth.



### **WALKING TANDEM**

On mainframe and wings to offer more consistent depth control, better handling in wet or soft soil and a smoother ride: less stress on the frame.



### **FORWARD WHEELS**

Wheels have a forward action, close to the front gangs, for precise depth control and reduced gouging in terraced or rolling conditions.

# TECHNICAL SPECIFICATIONS

## ADMIRAL 850

### GENERAL

Work. Width (ft.)	28
Transport Width (ft.)	15
Transport Height (ft.)	15
Overall Length (with harrow and roller, ft.)	36
Hitch	IV
Weight (no harrow and roller, lbs.)	22,000
Wheels	n.4: 19.0/45 - 17
Wing Tires	n. 4: 13.0/65 - 18
Operating speed (mph)	8-12
Transport Locking System	Mechanical

### DEPTH ADJUSTMENT

Depth Control Single Point	Single Point Mechanic
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### DISC SECTION

Gang Mounts	C-Spring
Disk blade Size (in.)	24
Disk Blade Spacing (in.)	20
Disk Bearings	CultiHub
Front & Rear Gang Disk Angle	22°
Operating Depth (in.)	0-6

### POWER REQUIREMENT

Engine power (hp)	330-450
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### OPTIONAL EQUIPMENT

3-bar Coil Tine Harrow	Optional, for excellent residue handling capabilities
Blade Roller (in., n° blades)	17, n.6
Cage roller (in., n° bars)	17, n. 10

#### A smart drawbar

The newly-designed hitch (towing eye cat. IV) features an increased section of pull plates and thicker walls for added durability. The heavier springs provide solid stability for transport and minimize "rocking." There is no need to re-level the machine when changing from field use to transport position.



**MASCHIO**



**MASCHIO GASPARDO**

**the winning team**

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DEALER:

**COMPANY WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
= ISO 9001:2008 =**