

ECOLO-TIGER® 870

CASE IH
AGRICULTURE



EVERY SINGLE DAY, YOU DEMAND MORE. MORE FROM THE LAND. MORE FROM YOURSELF. MORE FROM YOUR EQUIPMENT. THAT'S WHY WE DELIVER MORE. MORE POWERFUL AGRONOMIC ADVANTAGES. MORE PRODUCTIVITY-BOOSTING FEATURES. MORE APPROACHABLE AND KNOWLEDGEABLE CASE IH EXPERTS IN THE FIELD TO CONSULT WITH YOU AND DELIVER BOTTOM-LINE RESULTS. WE DO ALL THIS TO BETTER SERVE YOU AND YOUR OPERATION. WE LISTEN... WE DELIVER.

AS A CARETAKER OF THE SOIL, YOU WANT TO CREATE OPTIMAL SOIL CONDITIONS THAT ALLOW FOR AN EARLY SPRING FIELD ENVIRONMENT THAT PROMOTES CROP GROWTH AND YOU NEED TO DO IT QUICKLY AND EFFICIENTLY. BUT, YOU'RE ALSO DEALING WITH TOUGHER RESIDUE AND MORE OF IT. THAT'S WHY THE CASE IH ECOLO-TIGER 870 COMBINES INDUSTRY-LEADING PRODUCTIVITY, AGRONOMIC ADVANTAGES FOR SUPERIOR SOIL AND THE RUGGED DURABILITY YOU EXPECT FROM CASE IH.



FOR THOSE WHO DEMAND MORE

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Cover more ground with industry-leading operating speed up to 11 kph (7 mph) to save time and optimize available horsepower.

Welded, heavy-duty frame provides rugged durability. And unlike competitors, the 870 doesn't rely on tractor hydraulics to cut residue – its own weight provides all of the cutting pressure required.

The 870 matches a wide range of available horsepower with 4-, 6-, 7- and 8-m (14-, 18-, 22- and 26-ft.) widths.

Save time, fuel and tractor engine hours. The Ecolo-Tiger 870 performs crop residue management, compaction control and seedbed preparation in one productive pass.



Current Crop Trends

Trend-line corn yields are rapidly moving toward 12 tonnes per hct and beyond, resulting in a substantial increase in residue biomass.

Today's Bt corn hybrids result in residue, containing between 18 - 28 percent more lignin (the tough, glue-like substance that holds the plant cells together).

A uniform, level seedbed is critical to success with the earlier planting dates generally needed to generate higher yields.

870 Innovations

The innovative 870 design includes 910-mm (36-in.) underframe clearance, and ample room between shanks and running gear for smooth flow in the heaviest residue conditions.

Aggressive 61 to 66-cm (24 to 26-in.) disks are designed to cut and mix (not just bury) the toughest stalks and thickest, heaviest residue.

A patented double-edged reel on the 870 rear leveling system sizes clods and levels soil in the Fall setting the stage for more successful emergence in the Spring.

The Ecolo-Tiger 870 is designed to meet challenges that increasing residue brings.

LEADING THE INDUSTRY

DELIVERING AGRONOMY, PRODUCTIVITY, DURABILITY.

THE FIRST STEP TO BETTER CROPS, HIGHER YIELDS
AND MORE PROFIT IS IMPROVING YOUR SOIL.



▲ **Future Crop Trend:** Current record corn yield grown in Manchester, Iowa (shown here) resulted in approximately 10 tonne hct of corn residue.



▲ **Fracture root-limiting compaction** and create good soil tilth with 18 cm (7 in) tiger points®. Case IH tiger points perform a unique lift, twist and roll action that restores pore space and enables nutrient cycling in healthy soil.



Striking the right balance between healthy soil tilth, crop residue management and a seedbed consistency is no simple task. As the most aggressive disk harrow on the market, the Case IH Ecolo-Tiger 870 efficiently sizes and mixes the toughest, heaviest residue, while also leveling the soil out the back for a smooth seedbed in the spring.

It's built to be configurable throughout with attachment options and adjustability to match your cropping practices and field conditions. All of which means more yield potential and more profit.

BETTER SOIL, QUICKLY

PRODUCTIVE PERFORMANCE AND AGRONOMIC RESULTS.

THE ECOLO-TIGER 870 DISK RIPPER IS DESIGNED WITH BOTH SOIL SCIENCE AND TOUGH FIELD CONDITIONS IN MIND.

Up front, the 870 sizes and mixes residue for P and K availability and carbon buildup. Then the heavy-duty shanks shatter root-limiting compaction to take full advantage of all available nutrients. Out the back, multiple leveling system options are tailored to field conditions to prepare for the optimal seedbed.

Case IH engineers took into account not only today's realities of high plant populations, tough Bt corn residue and earlier planting dates, but also created a machine that will handle future changes in genetics and biomass handling by maximizing material flow at an industry-leading 11 kph (7 mph) operating speed.



▲ Operating at 11 kph (7 mph), the Ecolo-Tiger 870 will till 12 - 22 acres/hour. Combined with **AFS AccuGuide™ autoguidance**, farmers will potentially see labor, fuel and machinery savings.



▲ **Individual mounted front disks** feature 610-mm (24-in.) blades on 381-mm (15-in.) centers. This configuration is better suited to extreme rocky or muddy conditions.



▲ **Cushion Gang disk option** features 660-mm (26-in.) blades on 305-mm (12-in.) centers. Narrower blade spacing provides better residue sizing.



▲ **Patented leveler** features opposing blades on one common mount keeping the 870 shorter than competitors for better handling and performance in uneven terrain. Cast iron leveler arm provides added strength.



▲ **The double-edged reel adjusts easily** to suit the field conditions. The three settings for the reel are an adjustable down pressure mode, a float mode and pinned up.

Underframe clearance of 910 mm (36 in.)
maximizes material flow and minimizes
plugging, contributing to the 870's high-
speed performance.



RUGGED DESIGN

BETTER BUILT.

PART OF THE CASE IH ECOLO-TIGER FAMILY, THE 870 IS LIKELY TO BE THE FIRST RIPPER IN THE FIELD AND THE LAST OUT.

At up to 8 m (26 ft.) wide, the Ecolo-Tiger 870 is the largest full-size combination ripper in the industry. It sports a welded, heavy-duty frame for improved durability. And unlike competitors, it doesn't rely on tractor hydraulics to cut residue – its own weight provides all of the cutting pressure required.



▼ **Patented, double-edged reel components** are much stronger than flats, shed wet soil, and resist over-penetration that plugs competitive reel designs.

Model	Transport Width
7-Shank	4.88 m (16 ft. 0 in.)
9-Shank	5.10 m (16 ft. 9 in.)
11-Shank	5.07 m (16 ft. 8 in.)
13-Shank	5.47 m (17 ft. 11 in.)

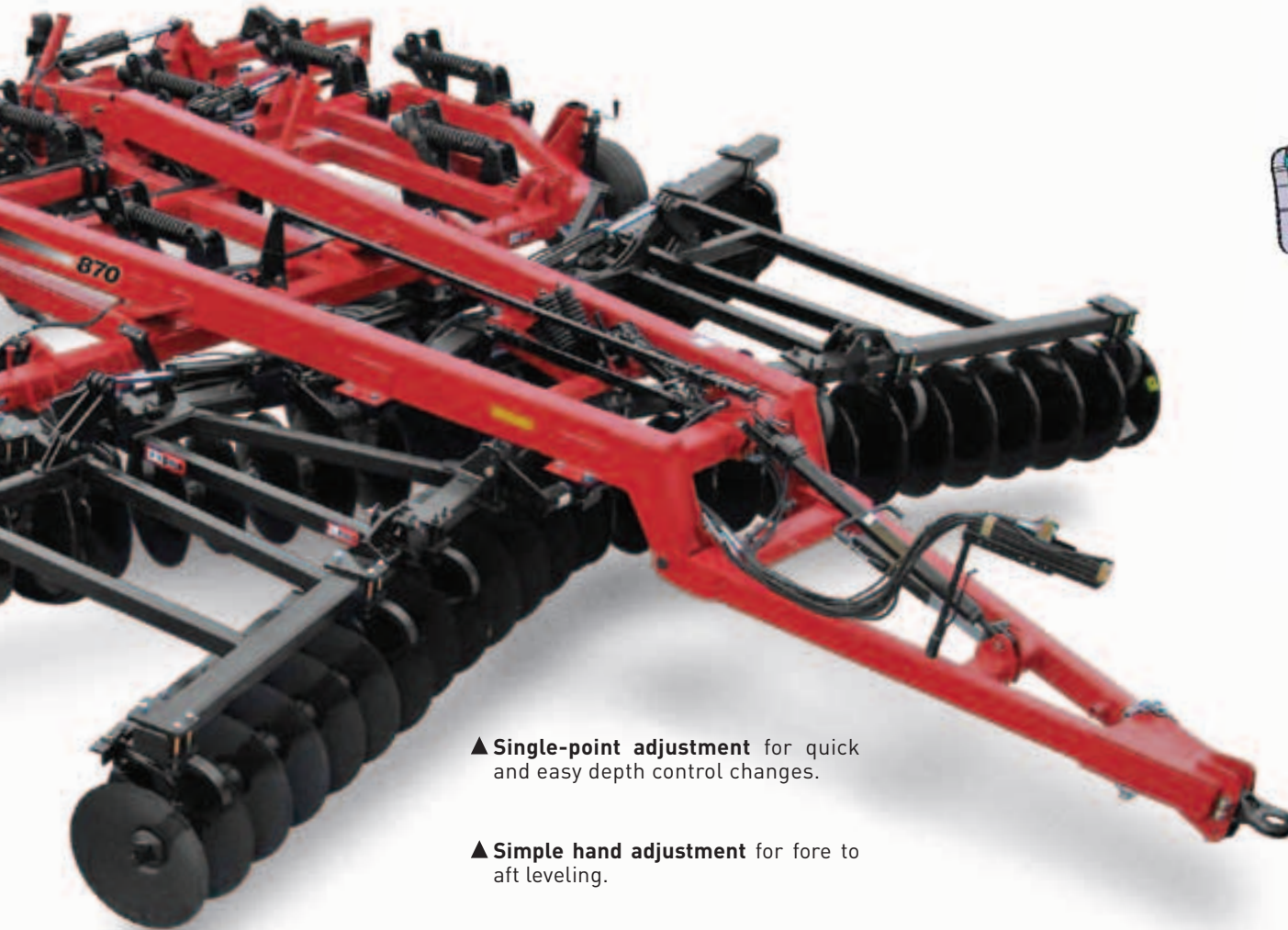
◀ **Narrow transport width** gets you from field to field easier. All Ecolo-Tiger 870 configurations fold to less than 5.5 m (18 ft.) – narrow enough to fit inside the tires of most matching 4WD tractors.

▲ **Heavy-wear parts** like shins and tiger points are easily replaceable.

▲ **Improved shank assembly** gives higher clearance and excellent protection against rocks.

▲ **Gang-mounted scraper system** offers added strength and better penetration.

▼ **Stable running gear** – 8- or 10-bolt wheels, high-performance tires and heavy-duty replaceable spindles – are designed for heavy loads.



▲ **Single-point adjustment** for quick and easy depth control changes.

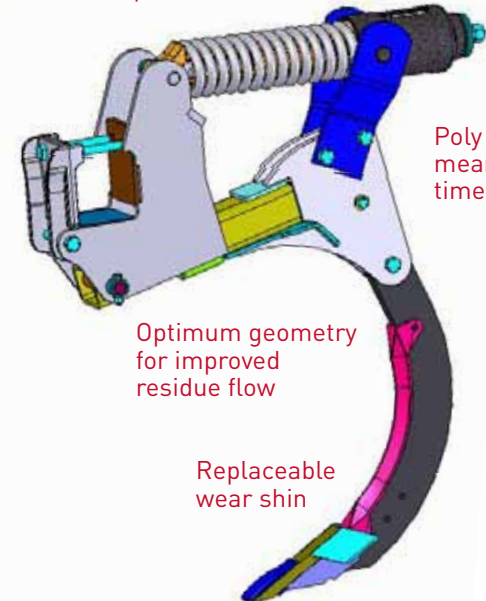
▲ **Simple hand adjustment** for fore to aft leveling.

▲ **Case IH crimped-center, Earth Metal® blades** with cast nodular spools provide unmatched strength and clearance.

▲ **Fewer bearings and moving parts** than other models. High quality, V-seal bearings increase the grease interval.

AUTO-RESET SHANK

Auto-resetting rock protection



Poly bushings mean less time greasing

Optimum geometry for improved residue flow

Replaceable wear shin

Tiger points® improve soil structure and overall soil health

◀ **Perfect hitch and big A-frame** allow for easy hookup.

CUSTOMER SUPPORT

PARTS & SERVICE



Maintain the productivity of your investment. Case IH and its dedicated dealer network provide excellent support when you take delivery of your new machine and whilst it remains in your ownership. On the farm, you can rely on trained service professionals to maintain the productivity of your investment.

Protect the value of your investment. Behind every Case IH product stands an extensive parts logistics organisation, stocking parts for products both old and new. Choosing to fit genuine Case IH parts will maintain the safety, value and performance of your original investment.



DEALER



Skilled business advisor at your dealership. Demand more from your Case IH dealership.

Purchasing a standalone piece of new equipment? Keeping a whole fleet up-to-date? Whatever your size of operation, contact your local Case IH dealership for professional advice on your business needs. Case IH knows your farming needs best.

**DO NOT RISK YOUR MACHINE'S LIFE.
BUY CNH ORIGINAL PARTS!**



SPECIFICATIONS

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TRACTOR REQUIREMENTS

PTO Horsepower	44 to 49 kW/m (18 to 20 Hp per ft.)
	86 to 98 kW/m (35 to 40 Hp per shank)
Operating Speed	8 to 11 km/h (5 to 7 mph) recommended

DISK BLADES

Individual Option	610 mm (24 in.) diameter concave individually mounted on 381 mm (15 in.) centers
Trunion Gang Option	660 mm (26 in.) diameter concave gang mounted on 305 mm (12 in.) centers

SHANKS

Shear Bolt Shank Protection	610 mm (24 in.) effective spacing, ideal for rock-free fields. Optional cover boards available.
Auto-Reset Shank Protection	610 mm (24 in.) effective spacing, ideal for rocky conditions. Optional cover boards available.

SHANK ASSEMBLIES

Auto Reset	330 mm (13 in.) of trip clearance, hardened pins and composite bushings
Shanks	32 x 102 mm (1-1/4 x 4 in.), with wear shin
Shank Points	Chromium carbide capped Tiger Points

BLADE PROTECTION

Cushion mounted blades in addition to a frame that lifts against a spring loaded relief that automatically resets when obstruction is cleared

Individual Mounted Blades	1 C-hanger per blade
Gang Mounted Blades	Multiple C-hangers per gang

SOIL FINISHING

Hydraulic Disk Leveler plus Double-edge, mounted reel	Excels in well-drained soil conditions
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TRANSPORT SIZE

Main Frame / Overall Length with Reel	7-Shank / 10.19 m (33 ft. 4 in.)
	9-Shank / 10.19 m (33 ft. 4 in.)
	11-Shank / 10.59 m (33 ft. 9 in.)
	13-Shank / 10.59 m (33 ft. 9 in.)
Working Width / Transport Width	4.27 m (14 ft.) / 4.88 m (16 ft. 0 in.)
	5.49 m (18 ft.) / 5.10 m (16 ft. 9 in.)
	6.71 m (22 ft.) / 5.07 m (16 ft. 8 in.)
	7.92 m (26 ft.) / 5.47 m (17 ft. 11 in.)

WEIGHT

Approximate with Disk Gangs, S/R Shanks and Reels	7-Shank Machine	6 560 kg (14,470 lb)
	9-Shank Machine	9 070 kg (20,000 lb)
	11-Shank Machine	11 440 kg (25,220 lb)
	13-Shank Machine	12 790 kg (28,200 lb)



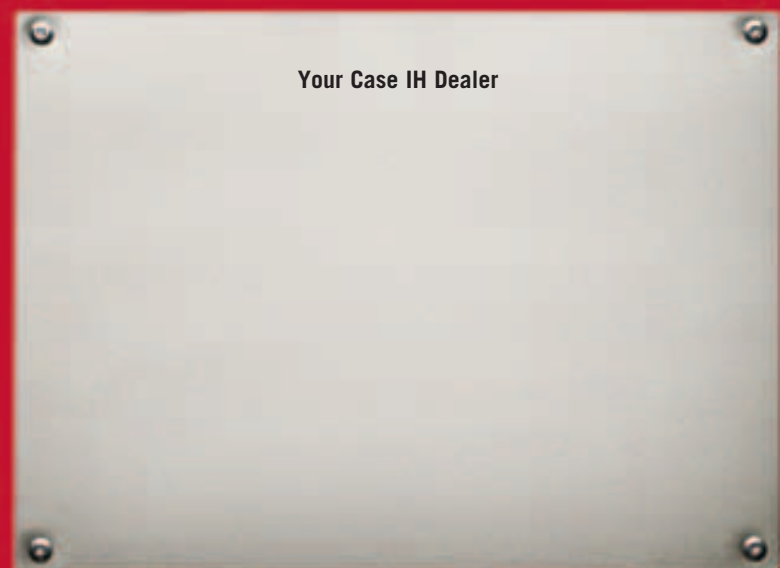
SAFETY NEVER HURTS!™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly.

Follow the product safety signs, and use any safety features provided.

This literature has been published for worldwide circulation. The standard and optional equipment and the availability of individual models may vary from one country to the next. Case IH reserves the right to undertake modifications without prior notice to the design and technical equipment at all times without this resulting in any obligation whatsoever to make such modifications to units already sold. Whilst every effort is made to ensure that the specifications, descriptions and illustrations in this brochure are correct at the time of going to press, these are also subject to change without prior notice. Illustrations may show optional equipment or may not show all standard equipment.

Case IH recommends **AKCELA™** lubricants

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