CASE IH AGRICULTURE

TIGER-MATE® 255

FIELD CULTIVATOR

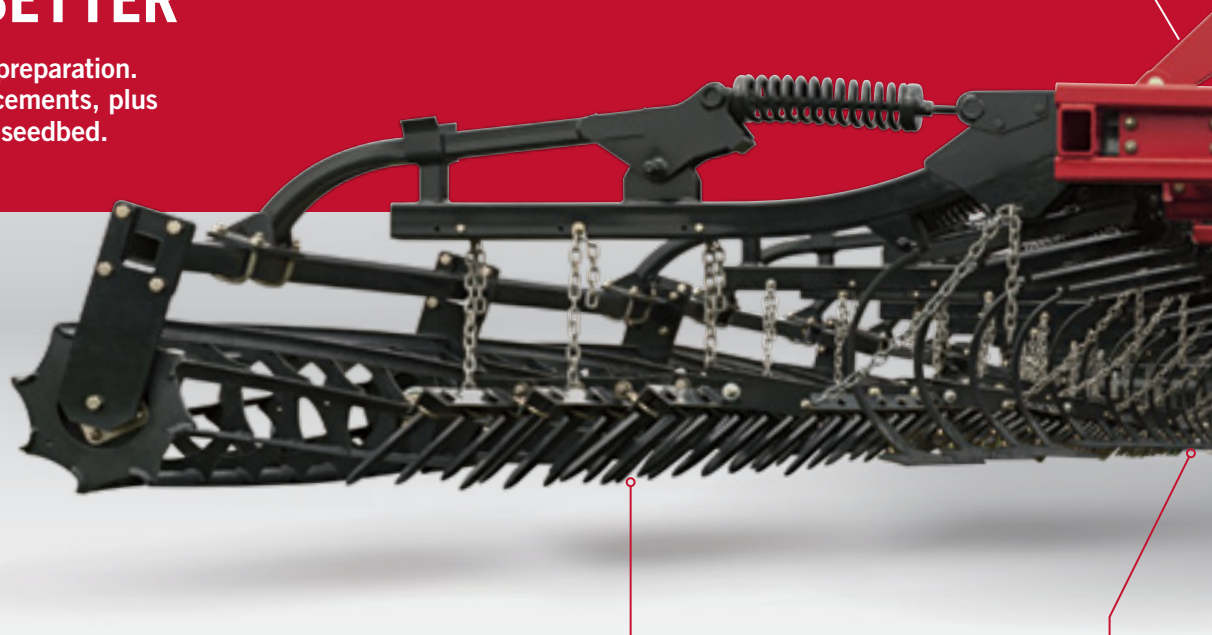
RETHINK SEEDBED PRODUCTIVITY

The new Tiger-Mate 255 field cultivator creates a high-efficiency seedbed for the most accurate seed placement. This next-generation field cultivator series delivers agronomic advantages with each pass, helping you capitalize on your planter's ideal productivity levels to achieve maximum yield potential.

HOW WE MADE THE INDUSTRY'S LEADING FIELD CULTIVATOR BETTER

Case IH Tiger-Mate field cultivators set the standard for seedbed preparation. The new Tiger-Mate 255 builds on this legacy with several enhancements, plus added features and capabilities that help create a high-efficiency seedbed.

The split-the-middle sweep pattern combined with a 16.5 cm (6.5 in.) shank spacing and 19 cm (7.5 in.) or 22.9 cm (9 in.) sweeps ensures 100 percent coverage for maximum crop residue mixing in the soil profile, along with thorough chemical incorporation.



- Greaseless bearings in the wing-wheel walking tandem beam, plus greaseless poly bushings in all wing and rockshaft pivots reduce maintenance and increase uptime.

- Equip double-fold units with a new wing wheel retraction feature to reduce transport width by up to 22.9 cm (9 in.). It is standard on 11.4, 12.4 and 14 meter (37.4-, 40.6- and 46-foot) models and optional on 15.7, 16.8 and 18.3 meter (51.6-, 55.1- and 60.1-foot) versions.

Harrow options include a new 3-bar, spike-tooth Advanced Conditioning System (ACS) harrow paired with the Case IH TigerPaw™ Crumbler® rolling reel. Other options include a 2-bar Tiger-Tine harrow with ACS roundbar crumbler or a 4-bar Tiger-Tine harrow.

The swept-back, high-concavity shank design helps soil explode higher, breaking tough clods and providing more consistent residue movement and better mixing.

- The unique bridge construction frame is designed for strength and durability yet able to flex through the most difficult terrain.

A new single-point hydraulic depth control is quick and easy to fine-tune depth to varying fields and conditions. Adjustments are holistic across the unit.

- Only Case IH offers these exclusive, reliable, long-lasting radial tires. The industry's first stubble-resistant radial tires that feature reduced compaction, improved flotation and durability in the field and during transport.

- A new floating-hitch option — available on double-fold units — allows the field cultivator to run independent of the tractor so it better follows the ground contour for improved depth consistency.



WELCOME TO HIGH-EFFICIENCY FARMING

High-efficiency farming ensures seedbed preparation and seed placement accuracy are matched with the ideal speed for your individual field conditions and yield goals. It's not simply working faster. It's about finding the perfect match of tractor, tillage tool and planter to get the most from every field, every season. Taking care of your seedbed is a year-round job. From crop residue distribution out the back of the combine to fall tillage to improving soil tilth, each step in the process leads you closer to the perfect seedbed, a high-efficiency seedbed, if you will.

Seedbed conditions affect germination, plant development and, ultimately, yield potential. When you pull your planter through the gate, you expect a field that looks ready to plant — a field with a smooth, consistent soil surface. But the ideal seedbed reaches much deeper. What you cannot see is as important as what you can see.

On the surface, the perfect seedbed is level, adequately firm and covered with small clods or a light mulch of crop residue to protect against soil erosion. Below ground, the subsurface floor where your planter places the seed should be even more level, smooth and consistent than the field surface. In between, look for moisture throughout the seedbed depth.

You also need soil that is well-mixed, providing the right soil-air-water balance and reliable incorporation. That's exactly what you get with the new Tiger-Mate 255 field cultivator — a tillage tool that readies your fields faster and more efficiently than any tillage tool you've experienced.

CASE IH TIGER MATE. LOOK DEEPER.

WHERE FORCE, DURABILTY AND FLEXIBILITY MEET

When it's time to make the final pass ahead of planting, the Tiger-Mate 255 field cultivator can take the field conditions you're dealt on any given day and create the optimal seedbed, regardless the conditions.

In high levels of crop residue, it handles more residue at higher speeds and provides even distribution for a level soil surface. In hard, crusted or cloddy soils, the wider shank positioning and 100 percent sweep coverage effectively mix soil particles and break down clods. In fields with uneven, varying soil types and tough soil profiles, the Tiger-Mate provides the force and flexibility necessary for a consistent, smooth subsurface floor for more precise seed placement.

The Tiger-Mate wider shank spacing allows a wider range of operating speeds. Hence, the 16.5 centimeter (16.5 in.) shank spacing improves crop residue flow and distribution across the Tiger-Mate 255. This spacing also allows room for larger, high-flotation tires without sacrificing the split-the-middle sweep pattern or increasing plugging. Plus, 35.6 centimeters (14 inches) of trip height clearance for rocks and other obstacles helps you work the toughest fields, and that helps to get your fields worked and your planter rolling.

The swept-back, high-concavity shank design helps soil ramp up and explode higher. This breaks down tough clods and provides more consistent residue movement and more thorough mixing. Better mixing also improves incorporation for more consistent results and a better return on your fertilizer and ag chemical investment.

CASE IH TIGER-MATE. BUILT TOUGH.

ADVANTAGES.

- Rugged design that allows to take on the toughest conditions
- Wide range of operating speeds
- Effective clod break down

A Hardened, dual greaseless pivot-point bushings last longer and require less maintenance. Plus, they help ensure the pivot point doesn't gall and wear out, which could allow the shank to move laterally, creating an uneven subsurface floor.

B The shank stop, which initially positions the sweep parallel to the ground, is positioned for precise consistency and durability.

C The larger main shank pivot bolt holds tight to maintain consistent spring pressure for a level subsurface floor.

D Stronger compression spring holds sweep in place during work, while adding protection to the assembly during rocky conditions. Compared to a stretch spring, the compression spring retains holding power throughout its life.

E The shank channel guard provides stability and even side-to-side loading for enhanced shank durability.

F The shank on the Tiger-Mate 255 is thicker, at 1.75 cm (11/16 in.) versus the previous 1.59 cm (5/8 inch).

The shank assembly design on the Tiger-Mate 255 not only provides the consistent, flat subsurface floor necessary for fast germination and even emergence but also helps you complete the task faster and more efficiently.

However, operating at higher speeds — up to 16.1 km/h (10 mph) — means faster-changing conditions across the field. Therefore, we balanced this beefier shank with a proportional increase in spring thickness, so it flexes prior to spring compression and provides a 20 percent increase in holding power. This balanced flexing helps maintain a consistent depth and keep sweeps parallel to the ground and on a level plane from nose to wing even through those compacted areas left by the combine or grain cart.

CREATING THE OPTIMAL SEEDBED

1. Maxxi-Grip™ sweep
2. Maxxi-Point Plus™ sweep
3. Maxxi-Point™ sweep

Every component of the Tiger-Mate works in harmony to create a high-efficiency seedbed. It takes the right design, spacing and alignment to achieve success and our Tiger-Mate series is widely recognized as one of the most agronomically sound field cultivators available.

Our split-the-middle sweep pattern ensures 100 percent coverage for maximum crop residue mixing in the soil profile. This thoroughness also provides complete nutrient and chemical incorporation. With the 5-bar cut pattern, the sweeps in the first three rows take out a full cut. The last two rows take a smaller cut, removing the middles. As the sweep pattern turns every bit of soil, it promotes better soil tilth and healthy root development.

The five-rank split-the-middle sweep pattern, 16.5 cm (6.5 inch) shank spacing and 63.5 centimeters (25 inches) of underframe clearance provide space for greater residue flow with reduced plugging. It's an unbeatable combination that provides maximum soil, residue mixing and distribution and chemical incorporationg in all residue environments. The first three ranks of sweeps are spaced farther apart than the rear two ranks to help more residue to flow.

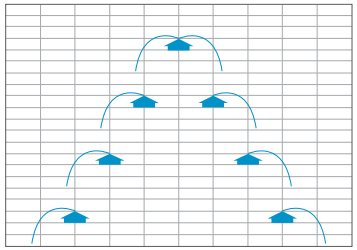
Whether you choose to outfit your field cultivator with the Maxxi-Point™, Maxxi-Grip™, or Maxxi-Point Plus™ sweep, their Earth Metal® alloy steel composition delivers increased toughness and longer wear life as it is heat-treated during manufacturing to prevent brittleness and loss of elasticity. This process allows Earth Metal® sweeps to withstand the impact of hitting rocks or other obstacles in the field without bending or breaking. That means less time spent replacing broken or worn sweeps and more time preparing the ideal seedbed.

Case IH Tiger-Mate. Keeping you rolling.

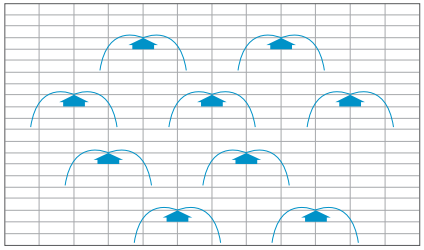
ADVANTAGES

- Sweeps improve soil tilth
- Complete, consistent coverage creates the ideal seedbed
- Split-the-middle sweep pattern provides maximum soil/residue mixing and distribution in all environments
- Tougher sweeps for a longer life

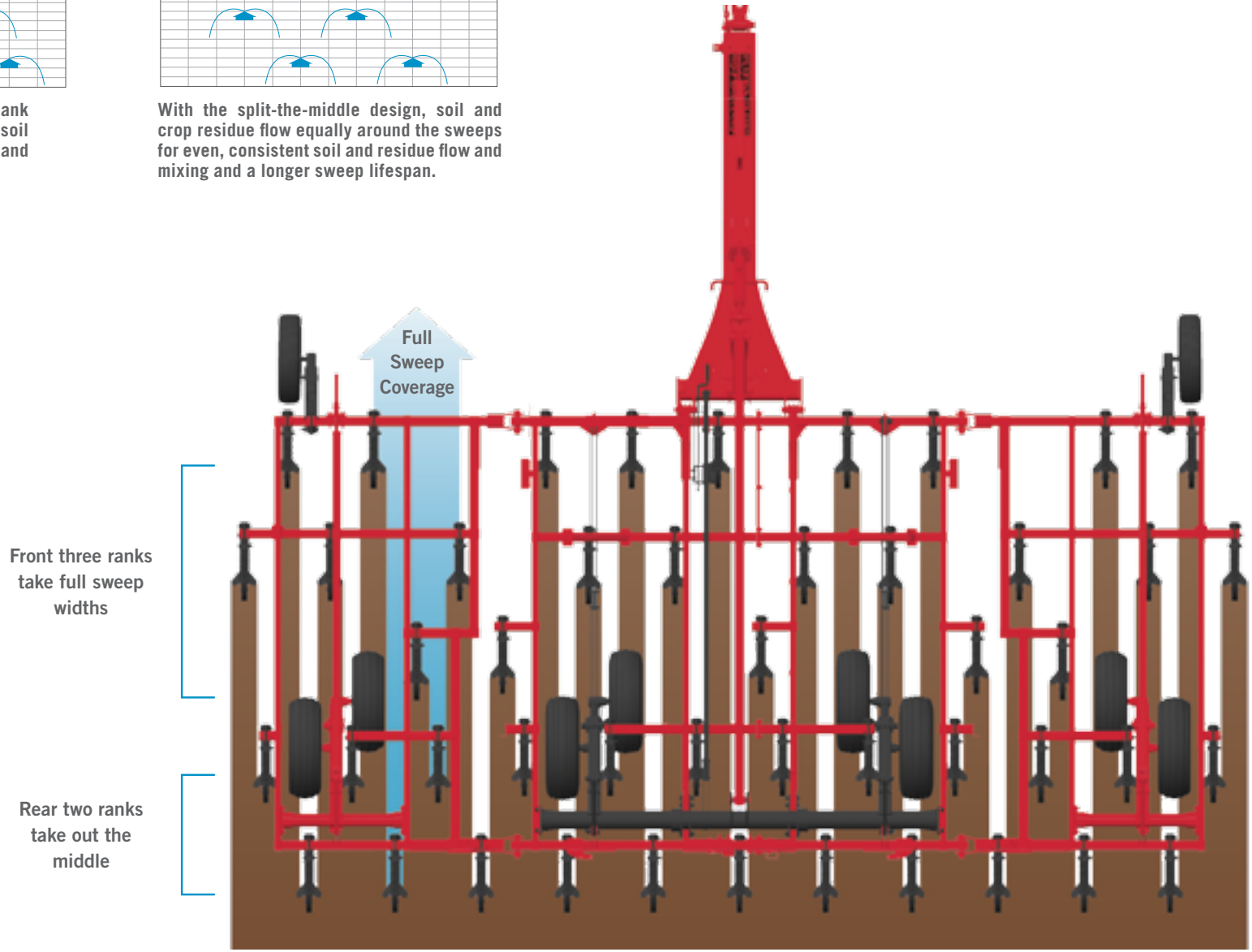
EARTH METAL®



The standard V-pattern shank alignment causes uneven soil and residue flow and mixing and unbalanced sweep wear.



With the split-the-middle design, soil and crop residue flow equally around the sweeps for even, consistent soil and residue flow and mixing and a longer sweep lifespan.



DURABILITY AND CONVENIENCE WITHOUT SACRIFICE

Our engineers tested and analyzed every component of the Tiger-Mate 255 frame against rigid standards to develop a stronger construction, with greater flexibility.

The single-point hydraulic depth control lets you quickly and easily adjust for fast-changing conditions within a field or across your farm and maintains equal depth across the entire field cultivator, including the wings. In addition, the tool-free turnbuckle provides easy leveling of the wings to the mainframe. On units equipped with the constant-level hitch a separate tool-free turnbuckle provides convenient fore and aft leveling to adjust to tractor hitch height.

On the main frame and wings, walking tandems and gauge wheels provide a smooth ride and reduce compaction, wing bounce and nosing. Their design offers balance and stability for a more consistent seedbed. On every wing section, stabilizer wheels provide further stability and levelness over obstacles. The pivoting stabilizer wheel on wing sections is a good choice for contour farming (optional on constant-level hitch units). The durable construction and welded cylinders mean greater reliability than on competitive field cultivators that rely on 10.1 x 10.1 cm (4-by-4-inch) tubes and butt-end welds.

In order to further increase uptime, the wing wheel pivots are equipped with greaseless bushings. Hence, greaseless bearings and bushings displace over 40 grease points on the double-fold unit and over 20 points on the single-fold models. Remaining grease points require only annual grease intervals, so you spend your time in the field, rather than maintaining your Tiger-Mate field cultivator.

The Tiger-Mate comes standard with a new T-bone hitch (on all models) that allows for sharper, more efficient turning and a tighter turn radius. A new floating-hitch is available on double-fold units (in option). It allows the Tiger-Mate 255 to operate independently of the tractor. The hitch pivots with the tractor over tough spots, but it lets the implement follow the ground for more consistently accurate depth across uneven terrain.
The best hitch for you depends on your field conditions, the floating hitch is best for rougher, extreme rolling terrain, waterways, ditches and terraces, as well as uneven ground. On the other hand, the constant-level hitch works seamlessly in relatively consistent rolling terrain and level terrain.

New radial tires are standard and exclusive to the Tiger-Mate 255. Extremely reliable and stubble-resistant, they provide up to a 70 percent increase in footprint, compared with Bias Ply tires (9.5L × 15). Larger footprint means improved flotation and reduced soil compaction. The durability of these radial tires pays off in the field and during transport.


CASE IH



THE PERFECT FINISH

When it comes to tillage equipment, there may be no more personal choice than the finishing tool on the back of the unit. We let you pick the option that best provides the finish you desire. Select from our lineup of harrows to put the finishing touches on your seedbed.

Among the options we offer is the new 3-bar, spike-tooth Advanced Conditioning System (ACS) harrow paired with the Case IH TigerPaw Crumbler rolling reel. The ACS combination aggressively breaks up clods, evenly distributes crop residue and levels the soil for a smoother surface finish. The front rank of spikes is adjustable to match ground conditions. Then comes the TigerPaw Crumbler, which features a formed bar for greater clod-busting power and excellent durability. This combination is the best choice for tough clods in forest soils prone to clodiness.

The 2-bar Tiger-Tine harrow with ACS roundbar crumbler provides moderate clod sizing and seedbed firming and features indexed tines to improve soil leveling. The combination of parallel linkage and non-linked tine bars eliminate depth and level setting. This option is ideal for mellow or sandy loam soils found in prairie type soils.

Lastly, you may opt for the 4-bar Tiger-Tine harrow. With three tine angle position adjustments and indexed tines that improve soil leveling. Parallel linkage and non-linked tine bars eliminate depth and level setting.

FRAME TYPE	SINGLE FOLD (CONSTANT-LEVEL HITCH)					DOUBLE FOLD (CONSTANT-LEVEL HITCH)						DOUBLE FOLD (FLOATING HITCH)					
WORKING WIDTHS	**6.8 m (22 ft. 2 in.)**	**7.8 m (25 ft. 6 in.)**	**8.7 m (28 ft. 8 in.)**	**9.8 m (32 ft.)**	**10.7 m (35 ft. 2 in.)**	**11.4 m (37 ft. 5 in.)**	**12.4 m (40 ft. 7 in.)**	**14 m (46 ft.)**	**15.7 m (51 ft. 6 in.)**	**17 m (55 ft. 10 in.)**	**18.3 m (60 ft. 1 in.)**	**11.4 m (37 ft. 5 in.)**	**12.4 m (40 ft. 7 in.)**	**14 m (46 ft.)**	**15.7 m (51 ft. 6 in.)**	**17 m (55 ft. 10 in.)**	**18.3 m (60 ft. 1 in.)**
Main Frame Width	3.5 m (11.5 ft.)				4.1 m (13.5 ft.)	3.5 m (11.5 ft.)			4.1 m (13.5 ft.)			3.5 m (11.5 ft.)			4.1 m (13.5 ft.)		
Wing Size	1.8 m (6 ft.)		2.4 m (8 ft.)	3 m (10 ft.)		2.4 m (8 ft.)		3 m (10 ft.)		3.4 m (11 ft.)		2.4 m (8 ft.)		3 m (10 ft.)		3.4 m (11 ft.)	
Transport Width (At Outer Shank / At Wing Tandems When Folded)	4.5 m (14 ft. 11 in.) / N/A				5.2 m (17 ft.) / N/A	4.8 m (15 ft. 7 in.)			17 ft. 9 in. (5.4 m) / 19 ft. (5.8 m)	5.4 m (17 ft. 10 in.) / 5.7 m 18 ft. 7 in.		4.8 m (15 ft. 7 in.)			5.4 m (17 ft. 9 in.) / 5.8 m (19 ft.)	5.4 m (17 ft. 9 in.) / 5.7 m (18 ft. 7 in.)	
Transport Width w/ Narrow Transport (Wing Wheel Retraction) Option	N/A					4.8 m (15 ft. 7 in.)			5.4 m (17 ft. 10 in.)			4.8 m (15 ft. 7 in.)			5.4 m (17 ft. 9 in.)		
Transport Height	3.1 m (10 ft. 2 in.)	3.4 m (11 ft. 1 in.)	3.8 m (12 ft. 6 in.)	4.3 m (14 ft. 2 in.)		3.7 m (12 ft. 3 in.)		4.1 m (13 ft. 5 in.)		4.7 m (15 ft. 6 in.)		3.7 m (12 ft. 3 in.)		4.1 m (13 ft. 5 in.)		4.7 m (15 ft. 6 in.)	
Length (w/o Harrow)	7 m (23 ft. 1 in.)					7.86 m (25 ft. 10 in.)			7.9 m (6 ft.)			9 m (29 ft. 8 in.)			9.1 m (29 ft. 11 in.)		
Max. Length (w/Harrow)	8.78 m (28 ft. 10 in.)					9.6 m (31 ft. 7 in.)			9.7 m (31 ft. 10 in.)			10.9 m (35 ft. 6 in.)			10.9 m (35 ft. 7 in.)		
Number of Shanks	41	47	53	59	65	69	75	85	95	103	111	69	75	85	95	103	111
Weight	3 828 kg (8,440 lbs.)	3 946 kg (8,700 lbs.)	4 291 kg (9,460 lbs.)	4 500 kg (9,920 lbs.)	4 736 kg (10,440 lbs.)	7 133 kg (15,725 lbs.)	7 189 kg (15,850 lbs.)	7 893 kg (17,400 lbs.)	8 310 kg (18,320 lbs.)	8 958 kg (19,750 lbs.)	9 149 kg (20,170 lbs.)	8 142 kg (17,950 lbs.)	8 292 kg (18,280 lbs.)	8 623 kg (19,010 lbs.)	9 067 kg (19,990 lbs.)	9 734 kg (21,460 lbs.)	9 916 kg (21,860 lbs.)
Drawbar Hitch Category	III				IV				V			IV			V		
Main Frame Tire Options	Standard: high-flotation 280/70R15 radial (Qty. 4) Optional: 9.5L-15 FI (Qty. 4) 6 bolt hubs					Standard: high-flotation 380/60R16.5 radial (Qty. 4) Optional: 12.5L-15 FI (Qty. 4) 8 bolt hubs			Standard: high-flotation 380/60R16.5 radial (Qty. 4) 8 bolt hubs			Standard: high-flotation 380/60R16.5 radial (Qty. 4) Optional: 12.5L-15 FI (Qty. 4) 8 bolt hubs			Standard: high-flotation 380/60R16.5 radial (Qty. 4) 8 bolt hubs		
Wing Tire Options	Standard: high-flotation 280/70R15 radial (Qty. 4) Optional: 9.5L-15 8-ply (Qty. 4) 6 bolt hubs					Standard: high-flotation 280/70R15 radial (Qty. 8) Optional: 9.5L-15 8-ply (Qty. 8) 6 bolt hubs						Standard: high-flotation 280/70R15 radial (Qty. 8) Optional: 9.5L-15 8-ply (Qty. 8) 6 bolt hubs					
Stabilizer Wheels	All wing sections: standard non-pivoting 5.90×15 (4-ply tubeless) tire size/optional: single-direction pivoting 7.60×15 (6 PR tubeless)					All wing sections: standard non-pivoting 5.90×15 (4-ply tubeless) tire size/ optional: single-direction pivoting 7.60×15 (6 PR tubeless)						Main frame and all wing sections: standard castoring high-flotation - 280/80R15 radial/ optional castoring 9.5L×15 FI (Main Frame), 8-ply (wings) tires					
Hitch System	Constant-level T-hitch with easy adjust front turnbuckle; swinging hose stand with operators manual storage											Floating T-hitch with easy adjust turnbuckle adjustment at each wing and mounted wrench on main frame; swinging hose stand with operators manual storage					
Wing Wheel Retraction (For Narrow Transport)	N/A					Standard			Optional			Standard			Optional		

SPECIFICATIONS

Main Frame	Bridge frame construction. Five ranks of 76 × 102 mm (3 × 4 in.) side-to-side and double 51 × 51 mm (2 × 2 in.) and 51 × 76.2 mm (2 × 3 in.) fore/aft structural members. Minimum rank spacing is 762 mm (30 in.) Total front to rear main bar is 3 327 mm (131 in.)
Shanks	Split-the-middle sweep pattern. 165 mm (6.5 in.) shank spacing. 17.5 × 44.45 mm (11/16 in. × 1-3/4 in.) shanks. Compression spring design with 68 kg (180 lbs.) trip force and 356 mm (14 in.) trip height. Replaceable, double-hardened bushings used at shank pivot and spring slide area. Standard HD shank support channel
Sweeps	Standard: 190.5 mm (7.5 in.) Maxxi-Grip knock-on, optional: 185.4 mm (7.3 in.) long nose Maxxi-Point bolt-on, 185.4 mm (7.3 in.) Maxxi-Point Plus knock-on; 228.6 mm (9 in.) Maxxi-Grip knock-on, 236.2 mm (9.3 in.) long nose Maxxi-Point bolt-on
Depth Control System	Hydraulic single-point depth control. Maximum working depth 152.4 mm (6 in.)
Leveling System	Turnbuckle adjustment (no tools required)
Hydraulics	206.8 bar (3,000 psi) hydraulic welded cylinders, hoses and fittings. Male ISO couplers on hydraulic hoses to tractor
Transport Lighting	ASABE standard LED warning and taillights with 7-pin connector. SMV emblem and reflectors. ASAE highway transport chain
Hubs and Spindles	Walking beam axles on both mainframe (greaseable) and wings (greaseless). Replaceable spindles on all walking beam axles
Horsepower Requirements	Varies with soil conditions and depth of tillage. 5-10 engine hp per foot or 2.5-5.5 engine hp per shank.
Recommended Operating Speeds	Recommended operating speed is 8.9 - 16.1 kph (5.5 – 10 mph). ACS harrows only, Field conditions must be evaluated before operating above 12.9 kph (8 mph).
Harrow Options	4-bar coil tine (40.6 cm (16 in.) Tiger-Tine), ACS 3-bar spike with TigerPaw Crumbler [90.6 - 121.9 kg per meter (60 – 80 lbs. per ft.) down force], or ACS 2-bar Tiger-Tine w/ round bar rolling Crumbler [90.6 - 121.9 kg per meter (60 – 80 lbs. per ft.) down force]

CASE IH Tiger Mate 255 – 02/2017 Code 17MEAC7002_COMINB – Printed in AUSTRIA

www.caseih.com
CNH Industrial Österreich GmbH, Steyrer Straße 32, A-4300 St. Valentin – Austria
Free phone: 00 800 22 73 44 00