CASE IH AGRICULTURE

SPEED-TILLER™

465/475 HIGH-SPEED DISK

AGRONOMIC DESIGN™

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SPEED-TILLER 465 / 475 HIGH-SPEED DISK

2 Models | Working Widths From 5 ft. 9 in. – 41 ft.

Spring or fall, create a high-efficiency seedbed with **the industry's only agronomically correct high-speed disk**. The Speed-Tiller 465/475 high-speed disk cuts, sizes and incorporates high levels of crop residue, creating a healthy soil environment that helps plants thrive.

The Speed-Tiller high-speed disk is built rugged to withstand the harshest soil conditions. It **delivers agronomic performance** at your speed, in your conditions. And with indexed, independently mounted blades, it's designed to work every inch of your soil profile. The result? A high-efficiency seedbed and industry-leading productivity that Case IH is known for.

CREATING A POSITIVE ENVIRONMENT FOR AGRONOMIC PERFORMANCE.

The Speed-Tiller high-speed disk creates a better seedbed without agronomic compromise. Field-tested and proven to be the only high-speed disk on the market worthy of the Case IH Agronomic Design™ badge, the Speed-Tiller has performance and productivity that sets it apart from the rest.

CROP RESIDUE MANAGEMENT.

The Speed-Tiller high-speed disk aggressively cuts, sizes and mixes crop residue to reduce erosion and increase production capacity. Its **industry-exclusive** constant-level design puts usable weight on the blades to penetrate the hardest soil conditions and run deeper — from 2 to 6 inches — controlling weeds and destroying root balls. This effective crop residue management allows you to increase organic matter content in the soil.

SOIL TILTH.

Ideal soil composition — known as soil tilth — is 50% soil and 50% pore space, with water and air equally distributed throughout. To achieve healthier soil, the Speed-Tiller high-speed disk delivers deeper soil penetration and moves more soil than traditional high-speed compact disks. Unmatched agronomic performance maximizes weed control and water penetration for optimal soil composition.

SEEDBED CONDITIONS.

The Speed-Tiller high-speed disk optimizes seedbed conditions, providing desired soil levelness and a smoother seedbed floor. With indexed, independently mounted blades, the Speed-Tiller effectively works the entire soil profile, eliminating compacted valleys and humps between where blades run below the surface. Effective weed control and clod sizing maximizes seed-to-soil contact for better stands and higher-yielding plants.

DON'T JUDGE A SEEDBED BY ITS SURFACE.

In addition to mixing crop residue evenly throughout the soil, a level seedbed is key to maximizing yields. However, a seedbed consists of more than just the soil surface. It includes the entire layer of soil where the seed is placed and germinates, including the seedbed floor. It's the seedbed floor that impacts the planter's ability to place seeds at the desired depth and spacing — ultimately affecting yield.

SEEDBED ASSUMPTION.

The seedbed surface is the most important aspect of seedbed preparation.

When properly set, nearly all high-speed disks provide a smooth surface appearance — and it's often assumed that if the surface appears properly prepared, it's ready for the planter. However, most competitive units on the market lack in creating a subsurface floor that is complementary to young seedling growth and development — instead, they create a ridged and compacted floor.

SEEDBED REALITY.

The seedbed floor impacts even plant emergence and is fundamental in maximizing yields.

In addition to surface levelness and residue mixing, the Speed-Tiller high-speed disk helps achieve a smoother, more level seedbed floor to optimize planter row unit ride and seed placement accuracy. This in turn leads to more uniform crop germination and even emergence.

AGRONOMIC ADVANTAGES.

- While properly mixing crop residue and increasing soil organic matter, the Speed-Tiller high-speed disk delivers a more level, uncompacted soil profile and smoother seedbed floor.
- Proper residue cutting and mixing contributes to healthier soil, encourages water and nutrient penetration, as well as plant growth.
- The smooth subsurface maximizes planter productivity to place seeds at the desired depth and spacing. This helps to achieve uniform germination, rapid emergence and increased yields.

AGRONOMIC DESIGN:

CREATING A HIGH-EFFICIENCY SEEDBED.

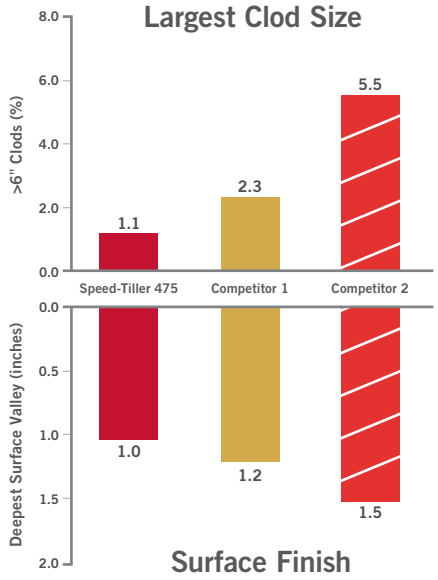
Every Case IH soil management tool must contribute to a high-efficiency seedbed to earn the Agronomic Design badge — but that designation doesn't come easy. Extensive multi-season field tests conducted by Case IH agronomists proved the Speed-Tiller high-speed disk to be the only agronomically correct machine of its kind on the market. In field tests, competitive disks proved to only work some of the soil, while the Speed-Tiller worked the entire soil profile. The Speed-Tiller thoroughly tills the soil while cultivating weeds, aerating the soil and mixing residue. It creates a smoother, more level subsurface floor, complementing accurate seed placement and young root development.

DIGS LIKE A DISK. FINISHES LIKE A FINISHER.

- In fall, set the Speed-Tiller to run deeper (3 to 6 inches) while the **exclusive** constant-level design puts usable weight on the blades to penetrate the hardest soil conditions.
- In spring, work at shallower depths and choose from three conditioner options to meet the needs of different soil types and conditions.
- Hydraulically positioned conditioner allows the operator to lift the conditioner roller in muddy conditions. A mechanically adjusted conditioner option is also available for simple and easy adjustment of pressure.

SOIL QUALITY FOR STAND AND PLANT PERFORMANCE.

- Maximizing yield potential starts with soil quality — Case IH research has shown that growers can dramatically reduce the risk of emergence problems in the spring by reducing both clod and valley sizes out the back of a tillage pass.
  - The Speed-Tiller delivers aggressive residue sizing and mixing for more rapid nutrient cycling, effectively handling today's realities of high plant population, tough *Bt* corn residue and earlier planting dates.
- Below the surface of the soil, competitive high-speed disks often create compacted ridges due to the angle and positioning of the front and rear blades.
  - Compacted ridges can hurt young seedling growth and development and lead to inconsistent emergence — impacting yields.



Case IH field tests have proven that the Speed-Tiller high-speed disk delivers industry-leading clod sizing and creates a smoother field finish compared to competitors.

Note: *Field tests conducted by Case IH agronomists evaluated residue coverage, residue sizing, levelness, clod sizing and seedbed floor. Conditions in your area may differ.*

Independently mounted 1.25-inch-thick disk arms and indexed blades work the entire soil profile.

YOUR SPEED. YOUR CONDITIONS.

- Designed to create a high-efficiency seedbed at a wide range of speeds and in nearly every field condition.
- Unlike competitive high-speed disks, the Speed-Tiller can perform in tough field conditions that don't allow for high speeds.
- The Speed-Tiller high-speed disk is designed with proper blade indexing and backside pressure to effectively eliminate ridges and grooves below the surface. This design contributes to smoother subsurface floor and more consistent, uniform emergence.

ROBUST, RUGGED DESIGN.

- Rugged frame is built and proven to withstand some of the hardest soil conditions.
- Standard 1.25-inch-thick disk arms are the heaviest and strongest on the market — nearly double the thickness of competitive units.
- Five-bolt disk bearings and hubs use unitized double taper roller bearings and a seven-lip cartridge seal for superior reliability and longer use.
- Single-point depth adjustment for both machine depth and level allows for ease of use, regardless of field conditions.

RIGID-MOUNTED CONFIGURATIONS.

- The Speed-Tiller 465 provides unmatched agronomic benefits in a compact, cost effective option that is ideal for specialty and diversified operations.
- Heavy duty, robust and reliable, the rigid-mounted model comes in a range of sizes to accommodate your tractor horsepower needs.

AGRONOMIC DESIGN. PRODUCTIVE PERFORMANCE.

Just like you work to make sure every inch of your fields are prepped for productivity, every inch of the Speed-Tiller high-speed disk is thoughtfully designed and precisely engineered with agronomics in mind. Each component and feature works in harmony to create a high-efficiency seedbed.

Wing Flex Torsion System

Exclusive design allows for wing flexibility (7 degrees up/7 degrees down) yet provides adequate down pressure to achieve maximum soil penetration. *(27′/31′/41′ only)*

Conditioner Attachment Options

Choose from three attachment options to help you achieve a field finish that fits your soil management practices:

- Round bar crumbler roller
- Spring conditioner
- Rubber roller

Earth Metal® Blades

Uniquely formed and heat-treated, Case IH Earth Metal blades provide exceptional endurance and break resistance for longer equipment life. Blades are notched and available in two configurations to accommodate your soil conditions: 22-inch notched, shallow concavity or 24-inch notched, standard concavity.

Heavy-Duty Double Taper Roller Bearing

Industry-leading, greaseless, heavy-duty disk bearing assemblies have superior durability and a five-bolt hub that uses double taper roller bearings meant for hard and tough conditions. A seven-lip seal between the bearing and hub provides extra protection from dirt and debris.

Hydraulic Conditioner Roller

Stay productive with the ability to lift the conditioner roller in muddy conditions. Unique rubber torsions provide protection and flexibility to follow the ground contour to provide a high-efficiency seedbed finish.

Single-Point Depth Adjustment

Regardless of field conditions, adjustments for both machine depth and levelness are quick and easy to make.

Constant-Level Hitch

Exclusive constant-level design puts usable weight on the blades for superior penetration.

Easy Transport

Narrow transport widths make it possible to get from field to field faster. Choose from trailing or rigid-mounted configurations to fit your operation size and horsepower range.

Indexed, Independently Mounted Blades

Exclusive indexed, independently mounted blades are laterally adjustable to work the entire soil profile. Rear blades are perfectly positioned to eliminate compacted valleys and humps below the soil surface. Unique blade position also reduces plugging in wet soil conditions with high volumes of residue.

Heavy-Duty Rubber Torsions

Made of high-density rubber, this industry-leading torsion system allows blades to hold their position through rough conditions at a range of speeds — and are malleable enough to lift and travel over rocks and other obstructions. Adding to the ruggedness, the 2-inch-thick torsions are mounted with six bolts to ensure optimal spacing and indexing.

Robust Disk Arms

Exclusive 1.25-inch-thick disk arms come standard and are the heaviest and strongest on the market — nearly double the thickness of competitive units. The disk arms are also rounded and formed to match blade concavity and provide maximum residue throughput.

Rugged Frame

Built for the harshest farming conditions and high speeds, the disk arms are mounted on 4-inch square tubing while most competitors can be 25% smaller in size.

WELCOME TO HIGH-EFFICIENCY FARMING.

When you consider all the factors that go into raising a top-yielding crop, High-Efficiency Farming, simply put, means making the most of soil, seed and equipment to maximize yield potential.

HERE'S ONE EXAMPLE OF HOW CASE IH CAN HELP BRING TOGETHER THESE ELEMENTS ON YOUR FARM AND CREATE A HIGH-EFFICIENCY SYSTEM.

Step 1 — Harvest: Even crop-residue distribution with your **Axial-Flow® series combine**

Step 2 — Fall Tillage: Break up large clods and manage residue with your **Speed-Tiller high-speed disk**

Step 3 — Spring Preparation: Run at shallower depths and create a smoother, more level seedbed with your **Speed-Tiller high-speed disk**

Step 4 — Plant: Accurately place seed with your **2000 series Early Riser® planter**

Step 5 — Feed and Protect: Precisely apply with your **Nutri-Placer® applicator, Patriot® series sprayer or Trident™ 5550 liquid/dry combination applicator**

Small improvements can yield big dividends. Consider how an efficient, agronomic tillage regimen might improve planter productivity. Or consider how more efficient horsepower across even just a few hundred acres can cut fuel expenses.

High-Efficiency Farming encompasses every aspect of your operation. From managing inputs to maximizing outputs, and from breaking through the status quo to shattering long-held assumptions, High-Efficiency Farming is about making the most of your season, soil and equipment.

SPEED-TILLER 465 / 475 HIGH-SPEED DISK SPECIFICATIONS

SPECIFICATIONS	SPEED-TILLER 465 RIGID MOUNTED MODEL									SPEED-TILLER 475 TRAILING MODEL			
Operating Width	5.7 ft. (1.75 m)	6.5 ft. (2 m)	7.4 ft. (2.25 m)	8.2 ft. (2.5 m)	9.8 ft. (3.0 m)	11.5 ft. (3.5 m)	13.1 ft. (4.0 m)	14.8 ft. (4.5 m)	18 ft. (5.5 m)	20.5 ft. (6.25 m)	27 ft. (8.25 m)	31.2 ft. (9.5 m)	41 ft. (12.5 m)
TRACTOR REQUIREMENTS													
Engine HP Range	70–90 HP (50–75 kW)	80–95 HP (60–71 kW)	80–105 HP (60–80 kW)	90–120 HP (66–88 kW)	110–140 HP (81–103 kW)	130–150 HP (96–110 kW)	150–220 HP (110–162 kW)	210–270 HP (154–199 kW)	260–290 HP (191–213 kW)	240–340 HP (179–254 kW)	320–400 HP (238–298 kW)	350–500 HP (260–372 kW)	425–600 HP (317–447 kW)
Remote Hydraulic Valves	N/A									4 (Fore/Aft Tilt, Main Lift, Wing Fold, Crumbler circuit)			5 (Fore/Aft Tilt, Main Lift, Wing Fold, Crumbler, Hyd. Jack)
Hydraulic Pressure	N/A									2,800 psi (19 000 kPa)			
OVERALL MACHINE													
Transport Width	6.9 ft. (2.05 m)	7.8 ft. (2.35 m)	8.1 ft. (2.5 m)	9.6 ft. (2.9 m)	11.2 ft. (3.4 m)	12.7 ft. (3.9 m)	14.2 ft. (4.4 m)	15.9 ft. (4.9 m)	19.4 ft. (5.9 m)	9.6 ft. (2.9 m)	10.7 ft. (3.2 m)	12.6 ft. (3.8 m)	15.7 ft. (4.8 m)
Transport Height	N/A									11.8 ft. (3.6 m)	12.2 ft. (3.7 m)	13.1 ft. (4 m)	
Weight	3,263 lb. (1 480 kg)	3,375 lb. (1 532 kg)	3,629 lb. (1 646 kg)	3,947 lb. (1 790 kg)	4,516 lb. (2 048 kg)	5,195 lb. (2 356 kg)	6,205 lb. (2 814 kg)	7,654 lb. (3 472 kg)	9,233 lb. (4 188 kg)	16,535 lb. (7 500 kg)	21,300 lb. (9 660 kg)	27,250 lb. (12 360 kg)	35,650 lb. (16 170 kg)
Depth Control	N/A									Cylinder stops for Wheels and Rollers and single point depth control for fore/aft tilt		Separate single point depth control for Wheels and fore/aft tilt	
Wing Down Pressure	N/A										Hydraulic down pressure w/ heavy duty rubber torsion system		
GANGS AND BLADES													
Blade Mounts	Individually mounted, heavy duty 1 ¼ in. (32 mm) thick arm with 2 in. (51 mm) high density rubber torsion system; lateral front gang adjustment												
Blade Bearings	Greaseless heavy duty double taper rolling bearing												
Blade Spacing	10 in. (250 mm) spacing on each gang; 5 in. (125 mm) effective cut spacing												
Blade Diameter (Standard / Optional)	Std. 22 in. (559 mm) shallow concavity blades / Opt. 24 in. (610 mm) std. concavity blade									Std. 24 in. (610 mm) std. concavity blades / Opt. 22 in. (559 mm) shallow concavity blade			
Blade Thickness	6 mm (0.236 in.)												
Blade Design	Earth Metal Serrated front and rear blades												
Number of Blades	14	16	18	20	24	28	32	36	44	50	66	76	100
WHEELS AND TIRES													
Main Frame (Standard / Optional)	N/A									Qty. 2: 560/45×22.5	Qty. 2: 600/50R22.5	Qty. 2: 600/50R22.5 GY flotation tires / Qty. 2: 425/65×22.5	Qty. 4 Rigid: 600/50R22.5 GY flotation tires / Qty. 4 Rigid: 425/65×22.5
Wing Frame (Standard / Optional)	N/A										Mechanically adjusted Stabilizer Wheel - 400/60 × 15.5 (Qty. 1 per wing)	Qty. 2 (one per wing): 600/50R22.5 GY flotation tires / Qty. 2 (one per wing): 425/65×22.5	
REAR ATTACHMENTS													
Mounting (Standard / Optional)	Mechanically positioned with heavy duty rubber torsion and heavy duty bearings / Hydraulically positioned with heavy duty rubber torsion with heavy duty bearings (14.8 ft. (4.5 m) & 18 ft. (5.5 m) only)									Hydraulically positioned with heavy duty rubber torsion system and heavy duty bearings / Mechanically positioned with heavy duty rubber torsion system and heavy duty bearings			
Crumbler	16.5 in. (420 mm) diameter with 1 3/16 in. (30.2 mm) rifled round bar crumbler						19 in. (480 mm) diameter with 1 7/16 in. (36.5 mm) rifled round bar crumbler						
Rubber Roller	N/A									21 in. (533 mm) diameter rubber roller with mud scrapers			
Spring	22 in. (550 mm) diameter heavy duty steel spring roller												

Transport widths are approximate due to front tool bar slide adjustment. Weights listed are for standard units, they can vary according to disk and roller options.

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