

Ripper Designed For One-Pass Deep Tillage

MOLINE, Ill. — John Deere has announced its new 510 disk ripper that sizes residue, deep tills to 15 inches, and leaves a level soil profile — all in one pass.

Available in 12-foot 6-inch and 17-foot 6-inch working widths, the 510 disk ripper features front tandem disk gangs set at a 20-degree angle followed by five or seven spring-reset standards, depending on working width. Rear tandem disk gangs, adjustable to either an 18- or a 16-degree angle for heavy or light soils and residues, respectively, complete the design.

The disk-ripper-disk arrangement provides several performance benefits. The front gangs size residue, kill weeds, and mix organic matter into the soil. The standards shatter hardpan and open the soil for aeration and better water infiltration. The rear gangs continue residue sizing, weed killing, and mixing organic matter into the soil, plus they level the soil profile to eliminate the need for a leveling pass prior to chemical incorporation in the spring. The 510 disk ripper does not need a separate leveling

attachment.

The ability to properly position the ripper standards relative to the hardpan optimizes productivity, fuel efficiency, and the wear-life of ground engaging components. The 510 disk ripper's new intermediate standard features a three-position adjustment that provides the flexibility to match ripping depth to field conditions while maintaining desired disk gang depth. For example, with the disk gangs set to run six inches deep, the standard's underframe clearance settings of 34-1/2, 36, and 37-1/2 inches position the standard point 12, 13-1/2, and 15 inches deep, respectively.

The standard has a trip height of 13 inches and is shearbolt-protected beyond 13 inches. The standard's parabolic shape and 2,300-pound trip force enable it to hold depth better than other standards with higher trip forces.

The 1-1/4 x 3-inch standards are mounted on 30-inch spacings for optimum soil disturbance between the standards in all soil types and conditions. The standards are equipped with 2-1/4-inch points. Optional 7-inch

ripper sweeps extend the shattering action between the standards and give more complete weed kill.

The 24-inch-diameter disk blades are mounted 11 inches apart. This spacing reduces the potential for plugging, yet sizes residue to flow through secondary-tillage tools. Heavy-duty combination scrapers provide non-stop operation in wet or dry conditions. A one-blade taper on the front and rear gangs and integral furrow filler on the rear gangs help ensure a level soil profile across the field.

The disk gangs operate to a maximum depth of 6 inches and feature C-spring mounting that helps maintain a consistent depth, yet provides flexibility for protection.

Single-point depth control makes setting operating depth fast and easy. The level-lift hitch keeps the frame level at all operating depths and in transport.

The backbone of the 510 disk ripper features 6x6x3/8-inch steel tubing, for strength and durability to handle the demands of deep-tillage applications. On the larger, 7-standard machine, welded,



The John Deere 510 Disk Ripper sizes residue, deep tills to 15-inches, and leaves a level soil profile — all in one pass. The 510's disk-ripper-disk design features five spring-reset ripper standards on the 12-foot 6-inch model, seven on the 17-foot 6-inch model.

4x6x5/16-inch side members also contribute to frame strength and rigidity. The 12-foot 6-inch model weighs 7,500 pounds and has a transport width of 14 feet 9 inches. The 17-foot 6-inch model weighs 10,000 pounds and has a 20-foot transport width.

Power requirements range from

185 to 275 horsepower for the smaller model and 260 to 385 horsepower for the larger one, depending on working depth and soil conditions.

The factory is scheduled to begin shipments of the 510 disk ripper in July 1994.

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