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 Electric drives in agricultural machinery. Linde Hydraulics demonstrates the advantages of using electric drives in agricultural machinery - both for manufacturers of work machinery and for their users. Two examples: When the conveying screw and ejector of a fertilizer spreader are driven by compact, speed-controlled electric motors, the quantity and the spreading distance of the fertilizer ...
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 John Deere wants to establish electric drives in agriculture. The agricultural machinery manufacturer is now showing a world premiere: a fully electric, autonomous tractor in operation on the field. Electrive.com was given an exclusive release. John Deere developed the new electric agricultural machine through the GridCON research project in a development consortium that includes B.A.U.M ...
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 Over the past 15 years there have been prototypes of all-electric farm tractors and even one-off models of "locomotive-type" diesel electric tractors, but by autumn, U.S. and Canadian farmers will be able to buy a 26,400-pound, 360 horsepower diesel-electric tractor ...
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 Diesel-electric tractors. The electrical systems within the X Concept - dubbed the Powerbus - can provide up to 174 hp. to implements through a compact power socket. The system also provides power to the internal tractor, including the electrical fan drive and the coolant pumps. To see how this prototype could work on the farm, ...
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 It uses the three-phase power to drive spreader motors, while 12 V power drives the agitators and two electric actuators. The spreader offers a clear example of the benefits of electric drives. Drive speeds are controlled independently of tractor ground speed or rpm. Speeds are easy to adjust and hold constant.
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 In published reports, the current chair of the AEF committee, Harald Dietel of Germany's Sensor-Technik Wiedemann GmbH, says the growing use of electric drives in agricultural machinery is a "historic chance" to use decentralized electric motors to overcome the limitations of mechanical and hydraulic systems.
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 John Deere unveils latest all-electric tractor prototype for zero-emission agriculture. While the company dabbled in alternative fuel sources for its full-size agricultural tractors in the past, including a hybrid electric version, this concept called SESAM (Sustainable Energy Supply for Agricultural Machinery) is the first fully powered by a battery pack.
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