

SUCCESS STORY

Where ROSTA made the difference



HOW TO ENHANCE MACHINE QUALITY



Customized product

John Deere

John Deere is the brand name of Deere & Company, an American corporation that manufactures agricultural, construction, and forestry machinery, diesel engines, drivetrains (axles, transmissions, gearboxes) used in heavy equipment, and lawn care equipment. The company also provides financial services and other related activities. Employees: 60 500, Turnover: 30 Mrd. US-Dollar



CONTACT

John Deere GmbH & Co. KG
John Deere Vertrieb
John-Deere-Str. 8
DE-76646 Bruchsal
Phone +49 7251 924 0
Fax +49 621 829 8300
27Information@JohnDeere.com
www.deere.de



The harvester in action

THE INITIAL SITUATION

John Deere is a brand with a solid reputation. In order to further solidify their quality reputation, John Deere was looking for a technically superior solution for the current vulcanised sockets that are pressed into the conventional swing arm.

The new solution had to meet three requirements:

- higher technical quality
- cost reducing
- the exchange must be possible without redesign

THE SOLUTION

In collaboration with John Deere the arm was redesigned to meet the required specifications. The ROSTA element is a torsional rubber spring with an operation range of $\pm 30^\circ$. The inner square is held by the very high biasing force of the elastomers (natural rubber). Rubber and metal are not glued or vulcanized. Torsion work takes place in the elastomers thus, no shear forces occur. The results from the field test were very successful.

BENEFITS

- Increasing lifetime
- Increased yield
- 1 : 1 retrofittable
- Protection of investment



Fritz Lauer
Engineer /
Combine Functions
John Deere

“ Thanks to the ROSTA elements, it was possible to improve quality and reduce costs without redesign. ”

PRODUCTS USED

The ROSTA custom lever arm incorporates two DR-S elements. Since the dimensions are equivalent to the previously used component, every sold harvester can be retrofitted with the new ROSTA designed solution.



ROSTA



ROSTA GmbH
Wiedenhaufe 3, 58332 Schwelm, Germany
Phone: +49 (0)2336 47 95 80
info.de@rosta.com, www.rosta.de