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## From tractors to seed drills, reliable and robust bearings and bearing units NTN-SNR, a world player at the service of the agricultural world

NTN-SNR has been a major figure in the agricultural world from the outset. Widely represented in North America and Asia, NTN-SNR is also one of the top three European companies in the field, both for tractor axle and transmission bearings and for bearings and bearing units for towed agricultural implements. NTN-SNR has developed a very broad range of self-aligned bearing units to meet all market needs and offers innovative bearing seal systems able to withstand the rigours of working the soil and meet the requirements of the farming community.

### A global presence for all agricultural machines

#### Axle and transmission bearings with a big following among tractor drivers



NTN-SNR has a complete and adaptable range of bearings for the entire agricultural sector. From the United States to Asia via Europe. NTN-SNR is present in the design offices of all the major tractor manufacturers, supplying tapered roller bearings, ball bearings and cylindrical roller bearings for transmission. The goal is always the same: to provide the robust and reliable parts. That is how NTN-SNR has become the key supplier to the biggest tractor manufacturers in the United States and Europe.

#### Reducing maintenance costs for towed implements



NTN-SNR is a leading figure in Europe in the self-aligning bearing units market for agricultural equipment. The company works with the entire sector, and is the main supplier to the biggest towed agricultural implements manufacturer in the world.

For more than 40 years NTN-SNR has been meeting the sector's requirements, which are particularly demanding when it comes to withstanding the pollution, mud and corrosion that this type of equipment is exposed to. It does this by offering bearings and bearing blocks that provide top performance in tough conditions. All these products are designed to contribute to reducing maintenance costs and increasing the service life of equipment.

## Meeting all towed implement requirements

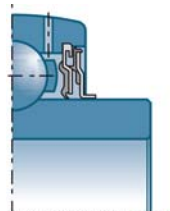
### A complete range of self-aligning bearing units

NTN-SNR's self-aligning bearing units range is one of the biggest on the market. With two series of dimensions (200 and 300), it meets European and Asian standards to fit all towed agricultural implements. Bearing blocks come in cast iron, steel plate and stainless steel and also in thermoplastic for specific applications. They are available with cylindrical bores and also with the square and hex bores often used in farming equipment. All are designed to be used in temperatures ranging from - 20° C to + 100° C.



### Innovative seals for top performance

NTN-SNR has developed various innovative seals suitable for the particularly difficult environment in which agricultural machinery is deployed. The difficulty lies in finding the ideal balance between the efficiency of the seal and its capacity to cope with high rotation speeds farming equipment needs to ensure machine functions with the required precision. That is why NTN-SNR has perfected the L4 sealing system which, due to its compact design, does not increase the outer ring width. Two radial contact seals are incorporated into a labyrinth system comprising two support plates. Another axial contact seal is placed between the plates, thus strengthening the labyrinth effect without creating additional friction. All the components are treated with rustproof chrome galvanizing including the inner ring, the outer ring and the seal support plates. This level of sealing has already proved its worth in numerous agricultural machines such as seed drills, harvesters and balers.



This L4 bearing insert helps increase the service life of bearing blocks and the time lapse between servicing.

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*NTN-SNR ROULEMENTS is part of NTN Corporation, the third largest bearings group in the world. Specialising in the manufacture of bearings for the automotive, industry and aerospace sectors, NTN-SNR ROULEMENTS also develops maintenance solutions and services through its Experts&Tools Department and thus provides a global offer. NTN-SNR ROULEMENTS employs 5,128 people and has 11 production sites in Europe and Brazil, and 23 commercial branches around the world.*



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