

Sealed Bearing Solutions

Self-lubricating bearings for agricultural and construction machinery



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Self-lubricating, maintenance-free and environmentally-friendly

Today's heavy-duty industry is driven by efficiency and effectiveness, yet given the rising awareness for our environment it seems obvious that grease-free solutions are the way to go to preserve our nature.

While grease not only provides lubrication, but is also used for corrosion protection and cleaning purposes by pushing dirt out of the joint, self-lubricating bearings have to invert the process to keep the dirt and corrosion out of the joint in the first place.

DEVA® now introduces the highest performing composite material deva.tex® into the heavy-duty market combining performance, low maintenance and durability. Eliminating the need for continuous greasing and maintenance of joints.

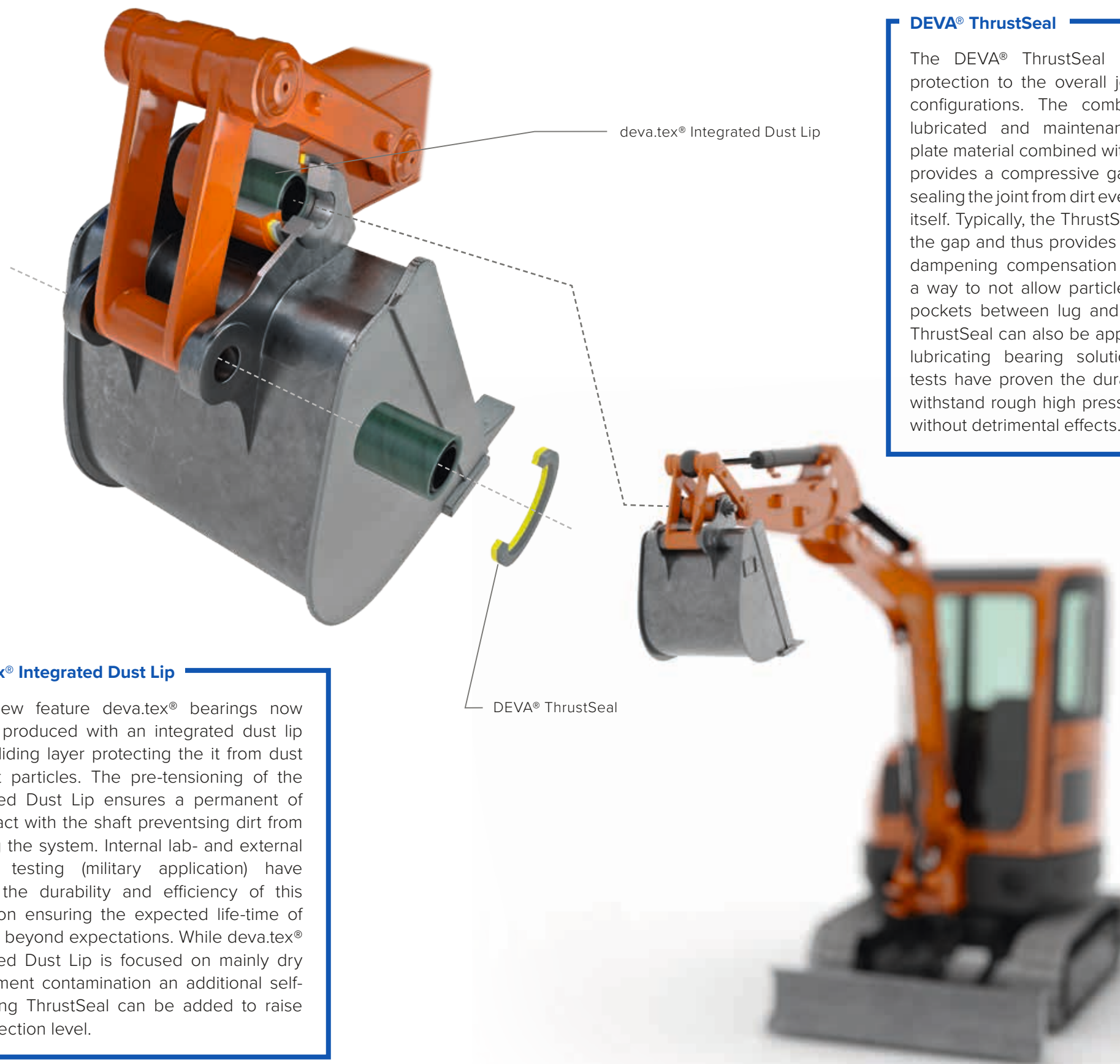
We have made good experiences with intense testing on real excavators applying our composite deva.tex® including newly developed sealing-systems, proving the applicability and effectiveness under real conditions.

DEVA® is now able to offer high performance plug & play composite system-solutions even for exposed joints that will no longer need greasing whilst addressing the life-time expectations of your customers. Our patented sealing-solutions that can either be used together or separately depending on the necessity of the application.



deva.tex® Integrated Dust Lip

As a new feature deva.tex® bearings now can be produced with an integrated dust lip in the sliding layer protecting the it from dust and dirt particles. The pre-tensioning of the Integrated Dust Lip ensures a permanent of its contact with the shaft preventing dirt from entering the system. Internal lab- and external real-life testing (military application) have proven the durability and efficiency of this protection ensuring the expected life-time of the joint beyond expectations. While deva.tex® Integrated Dust Lip is focused on mainly dry environment contamination an additional self-lubricating ThrustSeal can be added to raise the protection level.



DEVA® ThrustSeal

The DEVA® ThrustSeal provides extensive protection to the overall joint of lug & clevis configurations. The combination of a self-lubricated and maintenance free deva.tex® plate material combined with flexible elastomer provides a compressive gap-bridging solution sealing the joint from dirt even getting to the joint itself. Typically, the ThrustSeal not only bridges the gap and thus provides an axial movement/dampening compensation but is designed in a way to not allow particles to accumulate in pockets between lug and clevis. The DEVA® ThrustSeal can also be applied with other self-lubricating bearing solutions. Practical field tests have proven the durability and ability to withstand rough high pressure cleaning action without detrimental effects.



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