

Press Release

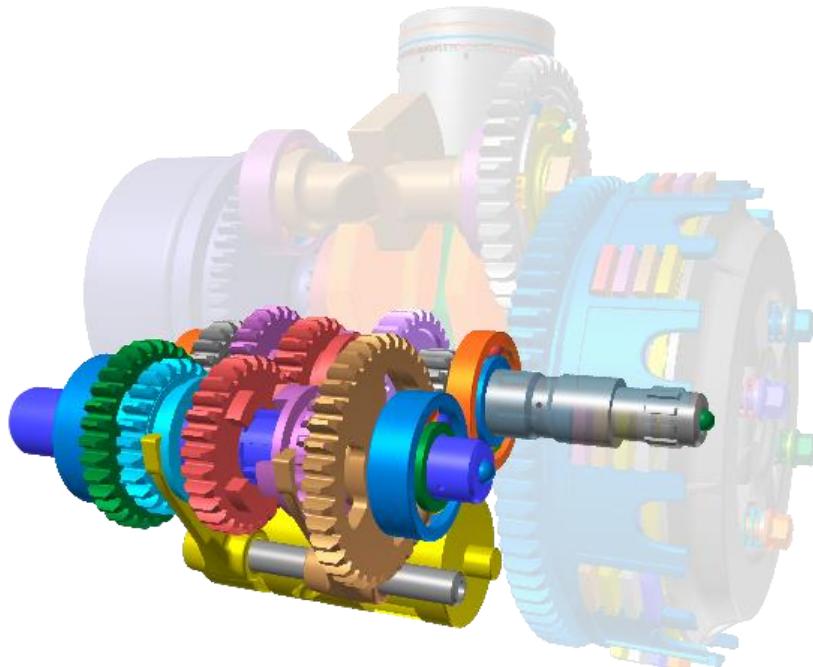
FunctionBay and KISSsoft have been working together since several years to combine their forces and create synergies: Now, we are proud to present our joint RecurDyn toolkits called GearKS and BearingKS.

These new products enable the engineers to improve the accuracy of the gear and bearing models when simulating the dynamic behavior of gearboxes. This improvement is necessary to stay on top of nowadays needs to reduce noise and vibration in transmissions and drive trains. With the two toolkits, RecurDyn allows to calculate the dynamic transmission error of a complex system, for following up a frequent request from our customers.

RecurDyn/GearKS provides a seamless access to the KISSsoft contact analysis for spur and helical gears. While performing the dynamic calculation in RecurDyn, GearKS determines the forces, moments and stiffnesses relevant for the modeling of gear pairs in each iteration step, based on the well proven model of Weber/Banaschek. The definition of the gear set can be entered either by reading in a KISSsoft file or by using the user interface of KISSsoft allowing a high level of detail. GearKS also provides the simplified user interface to create the gear pairs in RecurDyn.

With RecurDyn/BearingKS, RecuDyn utilizes the bearing calculation of KISSsoft which is based on the approach of ISO 16281 and determines the contact situation of each rolling element in each iteration step. In addition, BearingKS comes with the extensive bearing library of KISSsoft with the definition of several ten thousand bearings, covering 8 global bearing brands and 15 different types of bearings.

Both toolkits come with all software needed for the execution in RecurDyn environment, so there is no external KISSsoft installation necessary.



"Recently, as customers' interest in drivetrain increases, many users have requested the high-fidelity gear and bearing solution." says Michael Jang, CEO of FunctionBay. "Our collaboration with KISSsoft answers those needs and many customers are very interested in these new products. I believe that our new products using the dynamic analysis of RecurDyn and high-fidelity gear and bearing calculation using KISSsoft can bring greater insights and result in increased design accuracy and reduced prototyping costs."

Dr. Stefan Beermann, CEO of the KISSsoft company, added: "FunctionBay helps us leverage our technology in areas where we do not have direct access. With the combined competence of the two companies we can create tools that give the engineer a real benefit beyond the current state of the art."

About RecurDyn

RecurDyn is a Computer Aided Engineering (CAE) software focused on Multi-Body Dynamics (MBD), with extended multiphysics capabilities. The effectiveness of RecurDyn really comes out when approaching large scale multibody models, including multiple contacts and flexible bodies.

If you want more information about GearKS and BearingKS, you can find them under the [info website](#) of RecurDyn/DriveTrain.

About KISSsoft

KISSsoft is a calculation program for sizing, optimizing and verifying designs for machine components such as gears, shafts and bearings, screws, springs, joining elements, belts as well as complete gearboxes. KISSsoft can also be integrated in all popular CAD or CAE programs.

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