

FunctionBay Unveils RecurDyn: Redefining Gear Simulation in Engineering

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[/EINPresswire.com/](https://EINPresswire.com/) -- In mechanical engineering, the significance of Gear System Simulation cannot be overstated. As industries evolve and technology advances, the demand for precise and efficient solutions in gear



simulation becomes increasingly critical. FunctionBay, one of the leading engineering simulation software innovators, is set to redefine the engineering simulation software industry with its innovative, next-generation RecurDyn multi-body dynamics software specifically designed for high-performance gear simulation. RecurDyn Multibody Dynamics Software is set to revolutionize how engineers and product designers around the world design, analyse, and optimize gear systems.

With the emergence of Electric Vehicles (EVs), Hybrid Electric Vehicles (HEVs), and similar technologies, power source noise has decreased significantly. However, with this decrease, new challenges have emerged in terms of noise and vibration control within drivetrain systems. Recognizing the importance of these new challenges, RecurDyn's Gear Simulation Toolkit package, DriveTrain, emerges as a game-changer.

At the core of DriveTrain lies RecurDyn's multi-flexible body dynamics technology prowess, offering unparalleled performance in gear system simulation. DriveTrain provides specialized tools, such as GearKS and BearingKS, as well as Shaft, to help engineers and companies perform diverse gear simulations effectively across industries.

GearKS allows you to model and simulate gear systems with precision. BearingKS offers tens of thousands of bearing libraries from world brands, allowing you to evaluate system stability. Shaft accurately models and optimizes shafts using Multi Flexible Body Dynamics technology.

DriveTrain facilitates entire system simulation, providing comprehensive analysis, including the gear system's behavior. Time efficiency is crucial in product development, and RecurDyn delivers fast results, enabling rapid iteration and refinement of gear systems, thereby reducing development times and costs significantly.

RecurDyn integrates seamlessly with a wide range of engineering disciplines, providing a holistic view of system behavior that goes beyond gear simulation. Trusted by the world's leading companies, the reliability and performance of RecurDyn have made it the go-to solution for engineers and designers facing complex gear system challenges.

RecurDyn is essential for engineers and businesses looking for accurate and efficient gear simulation. As the leading-edge tool in gear simulation, RecurDyn sets the industry standard with innovative solutions.

About RecurDyn

RecurDyn is a Computer-Aided Engineering (CAE) software focused on Multi-Body Dynamics (MBD), with extended Multiphysics capabilities. Its effectiveness shines in large-scale multibody models, featuring multiple contacts and flexible bodies. For more information about GearKS and BearingKS, visit the RecurDyn/DriveTrain [info page on gear simulation](#).

For more information about RecurDyn Multi-Body Dynamics Software and how it can revolutionize your gear simulation capabilities, please visit <https://support.functionbay.com/en/page/single/60/recurdyn-multi-flexible-body-dynamics>

About FunctionBay, Inc.

FunctionBay, Inc. is a premier developer of CAE simulation software for flexible and rigid body dynamics simulation. Our engineering solutions cater to diverse industries, including automotive, shipbuilding, railway, robotics, heavy industry, and military vehicles.

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