# What's your thing... simulating Machines or Bulk Materials? How do you relate one to the other? What if they simply were unified...

Good engineers have a rich perspective on reality. They see that things are dynamically interconnected. They see that the total is greater than the sum of its parts. And they know, that this sets them apart.

Now, consider this. gravel, ore, cement, pellets and soil don't do much on their own; and dump trucks, feeders, mixers, pelletizing drums and excavators aren't meant to run empty. Instead, **machines** and **bulk materials** interplay dynamically - in **Algoryx Momentum Granular**. This is the engineering tool where system-level dynamics comes together and these engineers get to show their true colors.

- Know your design, and be brilliant -



MOMENTUM GRANULAF

www.algoryx.se - contact@algoryx.se







Strongly coupled Multibody Dynamics and Non-smooth Discrete Element Modeling (NDEM) State-of-the-art CAD (ANSYS SpaceClaim) AGX Dynamics unified physics technology



UMIT Research Lab





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# Algoryx Momentum Granular 2.0

### - New and improved features -

Python Scripting - Gain deep control of your design and cumulate your inhouse algorithms and techniques

Language... what would humans be without it? Language is how we stand on the shoulders of giants, make sense of the world, formulate and implement our insights; and it's how we accelerate our collective knowledge and ability. Now, Python is a *language* too - a scripting language that is exceptionally popular among modern engineers. Python gives you access to invaluable engineering algorithms created by a vast and vibrant expert community, helps you decipher the intricacies of your engineering system, lets you implement and leverage your deepest insights; and it cultivates the engineering vitality of your team and becomes an unbounded carrier of your shared professional legacy. Python is here to liberate you further and nudge you toward seizing your true potential.

# - Observer Frames - Gauge, probe and control from any location

These nifty objects lock on to the mechanical parts of your design, and serve as dynamic vantage points that enable complete access and control. Do with them, what you want.

#### - Contact Forces - Measure and design

Automatic dynamic elastic frictional 3D contacts are naturally still a part of the Algoryx Momentum Granular paradigm; and now you can measure the transient forces that they endure.

#### - Additionally improved -

Post-processing, video generation, managing granular matter, solver iteration control etc.

# Agoryx®

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