

Swift

Swift Mosaic is a software created by Spin.

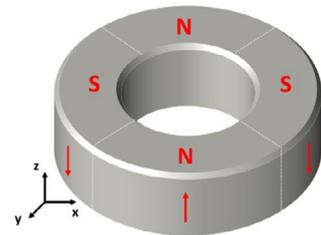
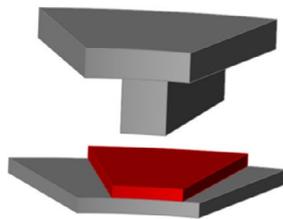
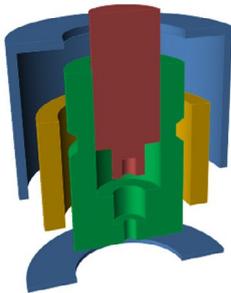
Our philosophy is that our clients needs are our priority. We decided to develop a project that can support them in pre-design applications. This is a light take on the software world, because we want to give the quickest and simplest solution to our clients.

Swift is made up with different fast, reliable and easy calculation tools that can estimate the performance of any device. Calculations are based on analytic models solved with Compose and Activate, from Altair Suite.

Avoid surprises on the test bench. Use Swift!

What are Swift's benefits?

Simple	A user-friendly interface makes possible for everyone to use it
Fast	Just a few minutes divide you and the results
Accurate	Reliable analysis
Convenient	Dvoids you the need of buying a FEM software
Custom	Swift can be whatever you want and more, based on your needs



Swift's applications: Electromagnet, Axial Motor e Magnet

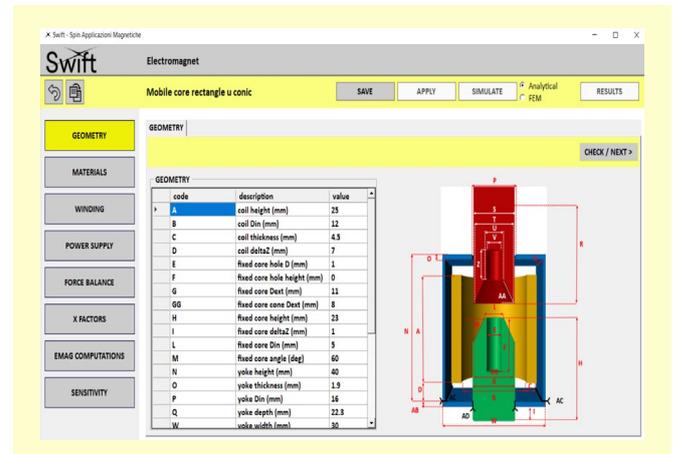
At Spin we are fans of the practical approach: that's why Swift can be personalized on your needs.

Discover Swift's applications: **Electromagnet, Axial Motor e Magnet**

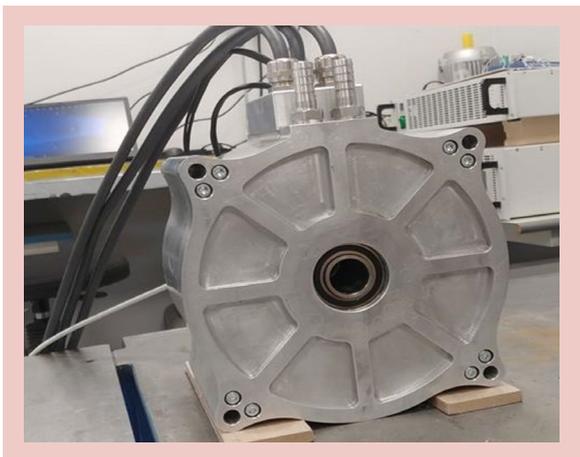
Swift Electromagnet

Electromagnet is all about linear electromagnetic actuators analysis.

The electromagnet operation involves so many physics inputs such as thermal, electromagnetics, dynamics. And most of the software can only analyze these inputs separately! But with Swift Electromagnet it is possible to have all the tools to manage the inputs, on the same software. Swift Electromagnet will make calculation process automatic and it is possible to connect software from the Altair Suite, developing a deep and multidisciplinary analysis.



Swift Electromagnet layout



Prototype produced with Swift Axial Flux Motor

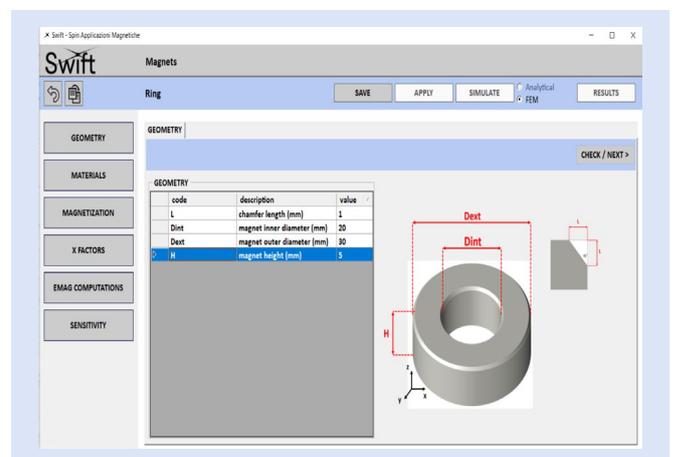
Swift Axial Flux

Axial Flux Motor is the application for Electric Motors with Axial Flux.

These kind of motors often need 3D calculation software, with long and complex analysis. With Swift Axial Motor you can manage with accuracy analytics models, concentrated parameters and FEM 3D (for device electromagnet and thermal analysis). We know lots of the specifics can change during the process and **Swift Axial Motor** is with you for every step. Swift Axial Motor can be combined with Compose (electromagnetic calculation) and Activate (thermal analysis).

Swift Magnet

Magnet is the application to size magnetic sensors of coupled magnets. It achieves an accurate calculation of the device both in standard conditions and in a set tolerance portion. In these cases, it is useful to considerate both the configured nominal device and the dimensional tolerance effects/material proprieties. Swift Magnet can be used with Flux, a software for deep electromagnetic analysis



Swift Magnet layout