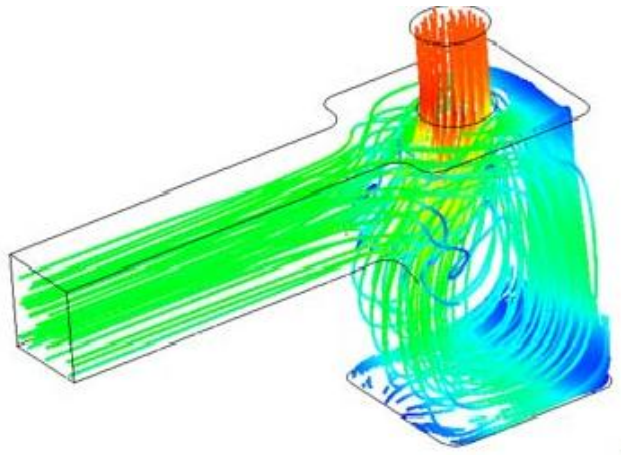




Quantum Age executes high-end Multiphase Fluid Flow simulation projects using CFD simulation tools. These include simulation of

- Drug inhalation devices - flow passage simulation, design and optimization
- Fluid – Particle / Multiphase Mixtures
- Deagglomeration Quantification

We have domain expertise in modeling *multiphase mixing phenomenon* including particle mixtures. Our CFD specialists can handle particle to *particle force quantification* and can extend a CFD simulation result set into a product design metrics for *design optimization* based on flow passage effectiveness to achieve fluid stream objectives.



Typical Application Scenarios:

1. **Inhalation:** You have an inhalation device using which you want to ensure specific drug delivery and de-agglomeration of fine drug particles from the carrier particles. You want to have the device flow passage design before you proceed with prototypes. 
2. **Atomisation:** You have an aerosol mix and you wish to achieve certain atomization. 
3. **Mixing and Dissolution:** You want to know how the drug particle mixing and settling on a surface would happen once mixed with liquid from a capsule or tablet and also in a given liquid phase how the dissolution of a tablet or capsule carrying drugs would happen. 

Write to us describing your product design needs against flow related phenomenon and we will get back to you with the right CFD simulation based approach to solve your specific problem.

You could use our domain expertise in controlling turbulence and enhancing effects of turbulence in your flow passages.

We have innovated geometric shapes to achieve specific design objectives in fluid dynamics field.

