Innovation

Fluid Mixing: Is it art or science?

The answer is simple. Fluid mixing is science, pure and simple, end of story.

One problem is that so many people, doing so many different processes approach the solution to their mixing process without a clue where to begin and hence end up doing a lot of trial and error, with little or no expert direction. Complicating this artsy approach are usually issues such as incorrect tank size and shape, mounting options, scale up uncertainties, power source issues, etc.

The approach we take at Brawn is to do all that we can focus on the science. This always seems more complicated in the beginning, collecting information about fluid rheology, defining the application class and determining what parameters control the success of the process. We understand that a process will not scale up linearly. Therefore, once we have collected information, we can apply the scientific principles to arrive at the correct mixer for the job. The scientific approach saves time (trial and error), optimizes productivity and even reduces down time and maintenance of the mixer itself.