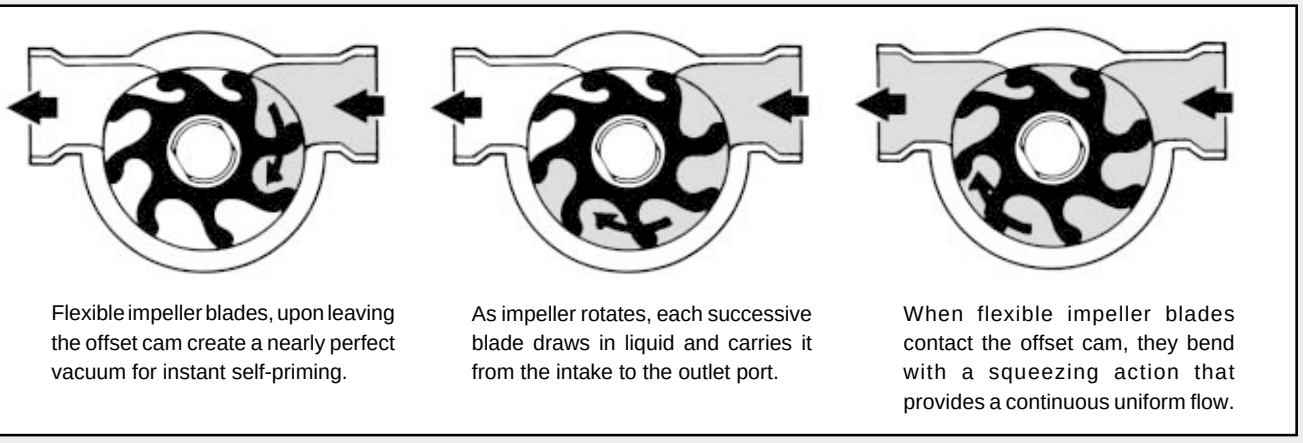
WHY CHOOSE A FLEXIBLE IMPELLER PUMP?

Flexible impeller pumps combine the self-priming features of positive displacement pumps with a material handling flexibility not found in other pump types to deliver one of the most versatile fluid handling solutions. These workhorses will pump thin or viscous liquids, can handle a wide range of solids in suspension, provide low shear fluid handling, can operate at high or low speeds, and can be mounted in any orientation. Flexible impeller pumps have only one moving part – the flexible impeller itself – with no metal to metal contact or gears to jam, clog, or become noisy. In general, they require less space in most applications because they deliver greater flow for weight, size, and price than any other pump.



Flexible impeller blades, upon leaving the offset cam create a nearly perfect vacuum for instant self-priming.

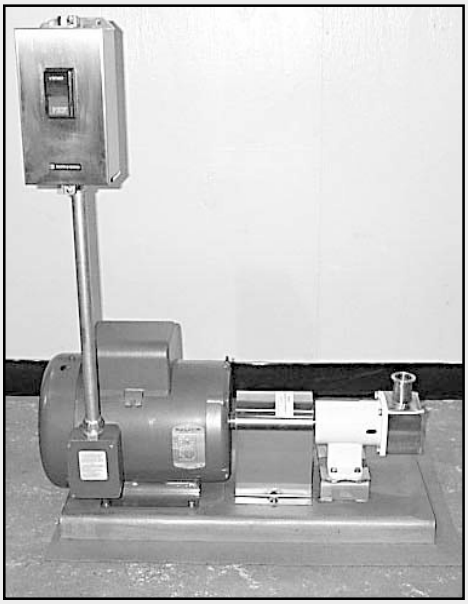
As impeller rotates, each successive blade draws in liquid and carries it from the intake to the outlet port.

When flexible impeller blades contact the offset cam, they bend with a squeezing action that provides a continuous uniform flow.

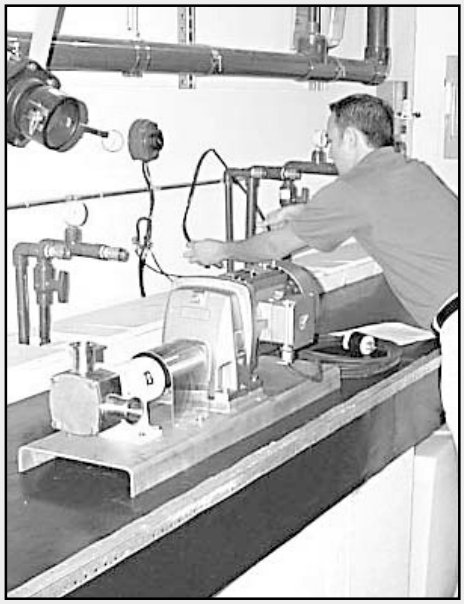
The basic flexible impeller pump consists of a circular housing with one section of the sidewall offset as a cylindrical cam (see above). As the impeller rotates, the cam compresses its flexible blades, reducing the space between them. When the blades leave the cam at the inlet port, the space between them expands to create a vacuum for instant self-priming. The impeller continues to rotate, and each successive blade draws in liquid and carries it from the intake to the outlet port. Here the flexible blades again contact the cam and bend with a squeezing action that provides continuous uniform flow.

Call our application engineers for help in selecting the right flexible impeller pump for your job at 800-446-1656

FLEXIBLE IMPELLER SUCCESS STORIES!



This sanitary FIP (flexible impeller pump) allows a small company to economically make batches of dressings and sauces. By running this pump for a predetermined length of time they are able to consistently ratio their ingredients.



This assembly (shown on our test bench) is one of several FIP sanitary pumps used by a tanning lotion manufacturer to transfer their various products. A variable frequency drive allows speed adjustment to match the viscosity of the product being handled.

A small winery needed an economical and portable variable speed system. Using a DC motor with SCR controller allowed us to do the job within budget. He liked it so much, he bought a second one!