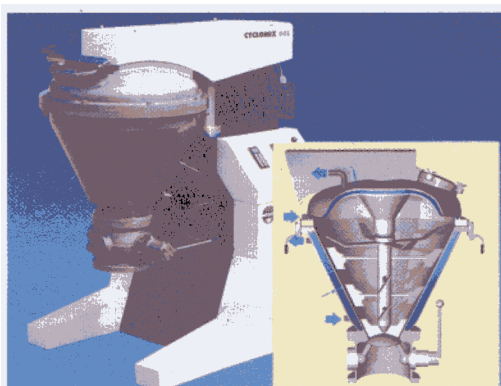


Materials Engineering

The Cyclomix, from Hosokawa Micron, has been specifically designed to intensively mix ultrafine powders without destroying the product by mechanical or thermal stress, thus preserving the product characteristics essential for new product development. The new, unique mixing principle of the Cyclomix offers process advantages, which



cannot be achieved by other mixing technologies and is recognised as a superior alternative to the use of plough shear mixers or impact mixers. Within the pharmaceutical industry, where it can operate as a GMP mixer and dryer, the Cyclomix has been highly successful in the coating of carriers with both liquid and solid active ingredients; the high intensity mixing of solids with liquids in one single vacuum mixing operation and the thermal agglomeration of solids with the maintenance of perfect temperature control. Available in a range of capacities from 5 to 500 l, the Cyclomix offers scale up potential for full production. The mixer is self-emptying through an aperture at the bottom of the mixing vessel for convenient discharge, whilst exchangeable mixing elements also ensure simple maintenance requirements.