

MIXING OF POWDERS AND PASTES

Mixer with a rotating chamber – Tumbler

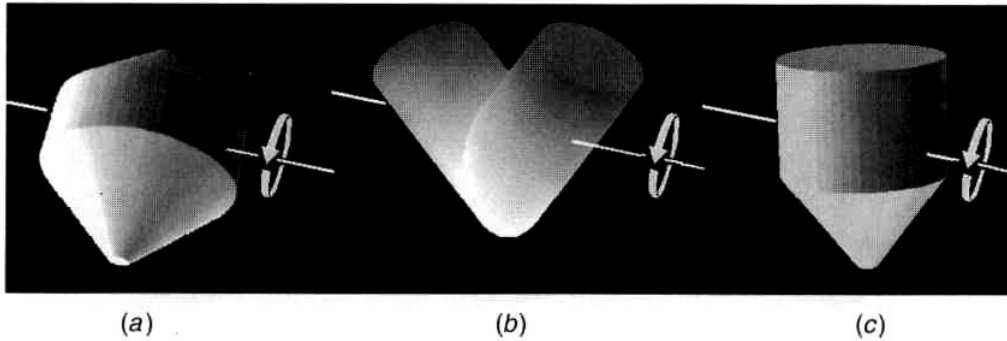
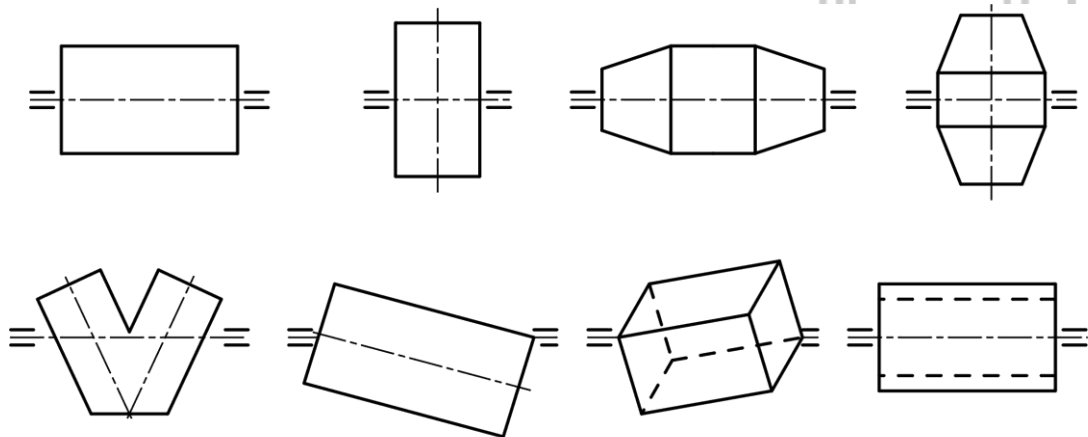


Figure 15-19 Three common tumbler designs: (a) double cone, (b) V, and (c) tote or bin blenders. Video clips of these mixers are provided on the Visual Mixing CD affixed to the back cover of the book.



Mixer with a stationary chamber – convective mixers

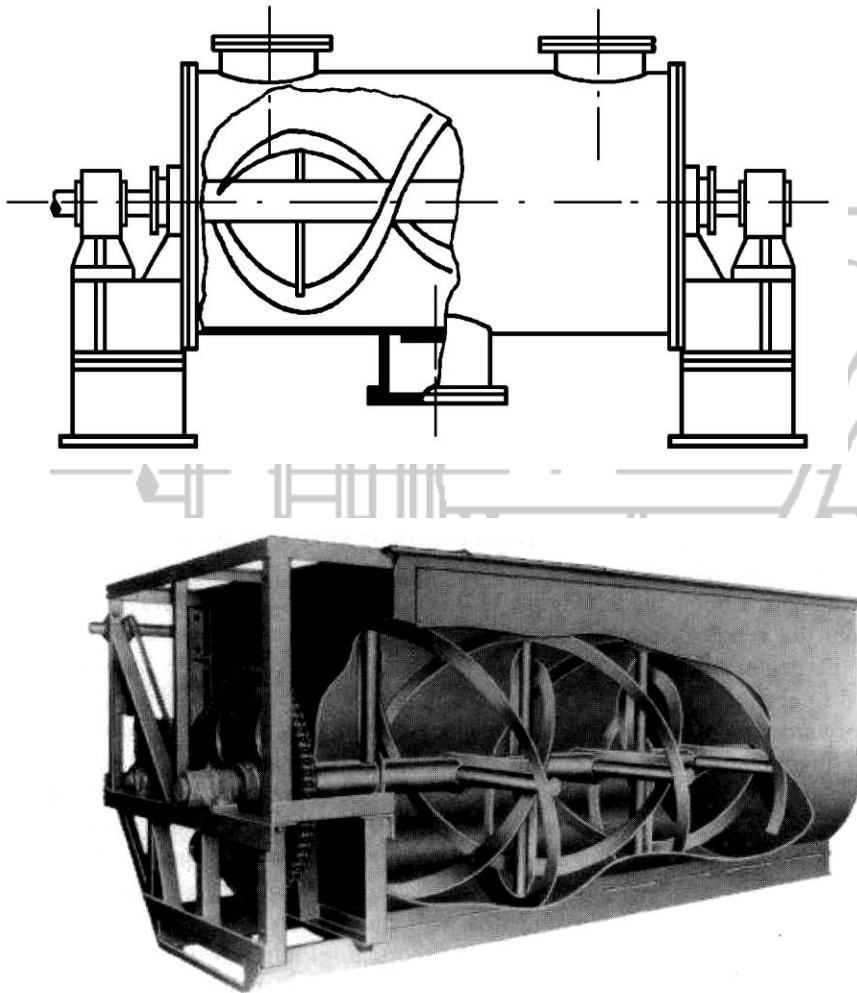


Figure 15-23 Schematic of a ribbon blender, consisting of a cylindrical vessel swept out by a rotating helical impeller blade. (Courtesy of H.C. Davis Sons Manufacturing Co., Inc., Bonner Springs, KS, printed with permission.)

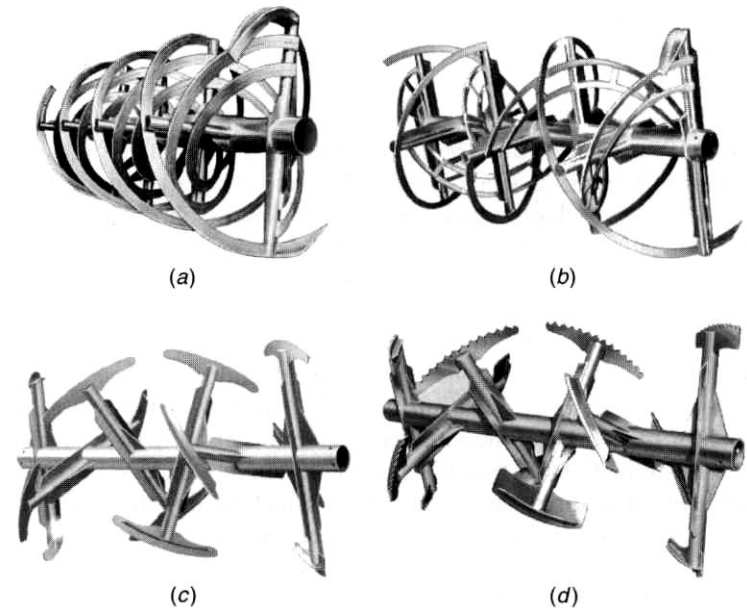
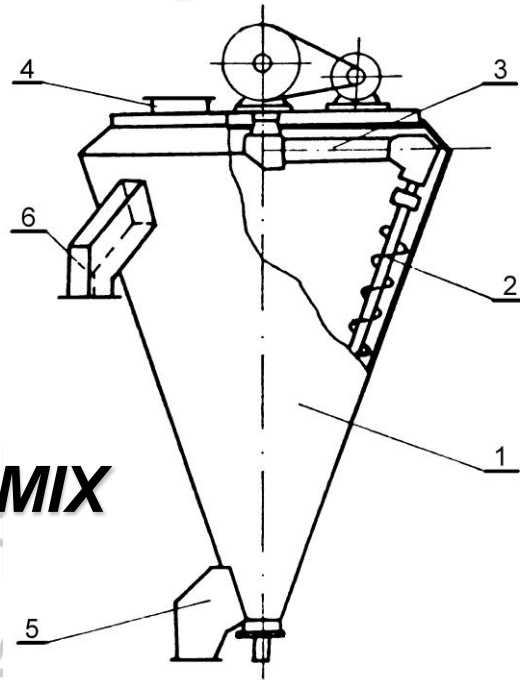


Figure 15-24 Four convective blender impellers: (a) double ribbon agitator; (b) center-discharge ribbon agitator; (c) paddle agitator; (d) sawtooth paddle agitator. (Courtesy of H.C. Davis Sons Manufacturing Co., Inc., Bonner Springs, KS, printed with permission.)

Internal orbiting screw mixer



NAUTA-MIX



R6MN1165

Screw mixer – for bins

