

# AVEKA

**SPECIALISTS IN PARTICLE TECHNOLOGY  
TOLL MANUFACTURING**



## HIGHLIGHTS

- BEAD MILLING
- HIGH PRESSURE PROCESSING
- BALL MILLING
- HIGH SHEAR MIXING
- DISPERSION CHARACTERIZATION
- PROCESS DEVELOPMENT
- TOLL PROCESSING

## DISPERSION PROCESSING SERVICES

AVEKA has the Research and Development infrastructure and production capabilities to optimize and produce dispersions to meet your market needs.

## METHODS

AVEKA has three primary methods of generating dispersions:

- Bead milling
- High-pressure processing
- High-shear mixing

Each of these different processes has specific strengths and can be employed to make stable, ultra-fine dispersions for a variety of applications.

## R&D, PILOT & MANUFACTURING

AVEKA offers

- Full team of R&D Engineers and Dispersion Specialists
- Formulation adjustment, and process development/optimization
- High-shear mixing
- Dedicated analytical laboratory
- Versatile processing equipment
- Contract manufacturing committed to highest quality and customer satisfaction

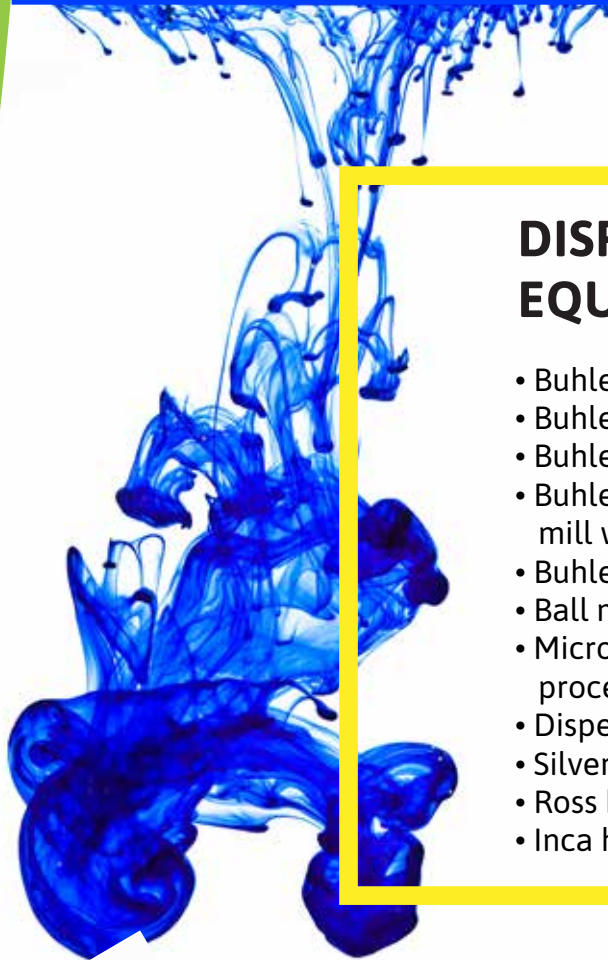
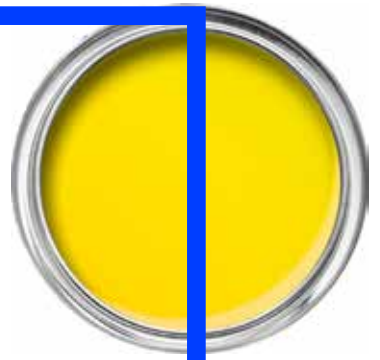


# DISPERSION

## UNDERSTAND YOUR DISPERSION

Full range of analytical tools to measure and understand critical behavior in dispersions.

- Particle size measurement
- Particle charge through zeta-potential
- Surface area
- Rheology
- Solid content



## DISPERSION PROCESSING EQUIPMENT

- Buhler K8 - conical bead mill
- Buhler Advantis high-energy bead mill
- Buhler COSMO high-shear bead mill
- Buhler PML-HV high-capacity disc mill with multiple grind chambers
- Buhler K60 pilot & production mill
- Ball mills (dry and wet)
- Microfluidizer M110Y (high-pressure processing)
- Dispermat cowles disperser
- Silverson - rotor stator mixer
- Ross high torque mixer
- Inca high-speed disperser

## APPLICATIONS

- Inkjet inks
- Specialty coatings
- Emulsions
- Agrochemicals
- Food ingredients
- Cosmetics
- Nutraceuticals
- High-tech ceramics
- Fuel cell and battery applications
- Electronics components and much more

