



- High containment solutions
- Reduced down time
- Optimized product recovery
- Safety
- cGMP / ATEX compliance
- Reduced capital cost
- Optimized processes
- Advanced cleaning features
- Process development

# Micronizing Integrated Solutions & Consultancy



The qualities of products that require micronizing have countless variables, so advice on ensuring the optimum process parameters and particle size distribution curve manipulation for each product is invaluable.

Dec takes a product, assesses its particle size characteristics, conducts initial analyses in the laboratory, then develops and optimizes the process at production level, recommending the best machine for the production rates required. Alongside this, appropriate containment within process isolators can be implemented, considering cGMP standards, including sterile or non sterile processing for both the US and Europe.

The service includes material components evaluation and ensures the control

of process conditions from temperature to humidity or even cryogenic conditions, if the product requires it.

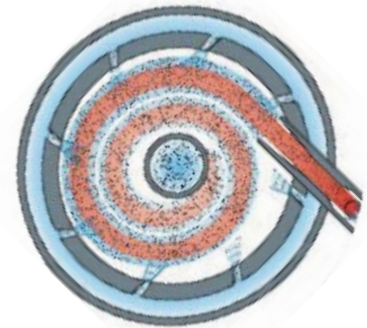
Dec makes the jet mills to suit difficult products, with top and bottom exit systems and intermediate cyclones for particle fractionation if required, including vertical milling where appropriate.



Special inserts for very hard products

## Services / Capacities

- Micronizing down to 0.5 microns
- Optimized product recovery > 99%
- Product analyses
- Process development
- Process optimization
- Process conditions control
- Containment strategy



Examples of difficult products successfully processed:

Pharmaceutical field:

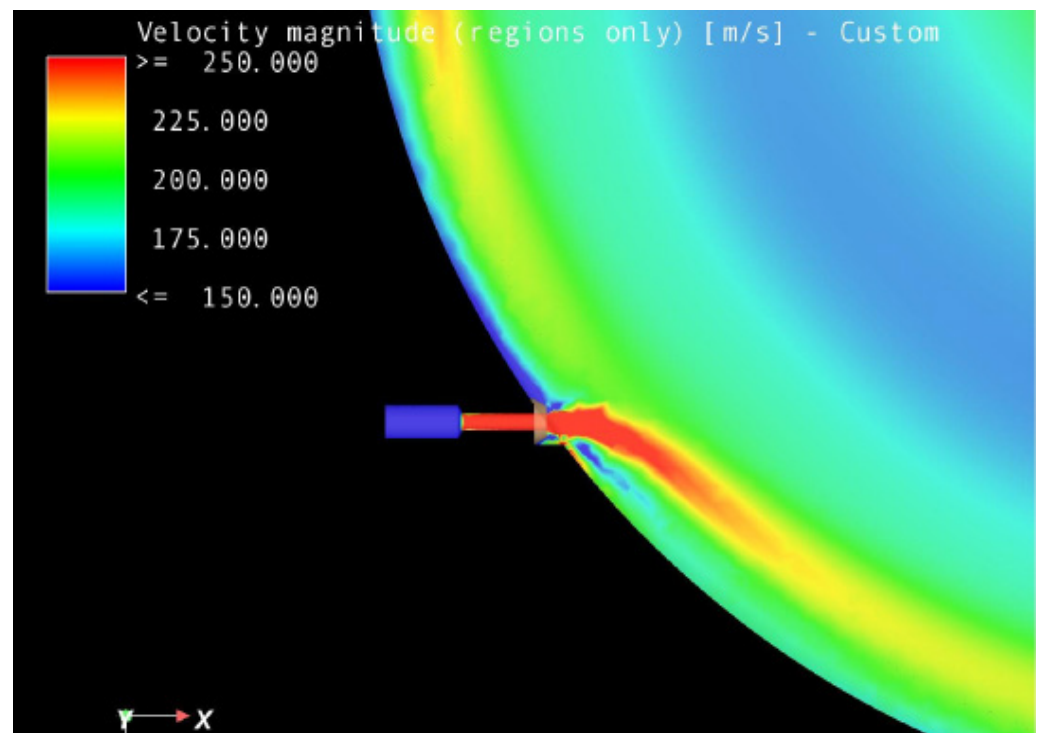
- Triam family of products
- Fluticasone
- Orlistat

Cosmetic field:

- Titanium oxide
- Zinc / Iron oxide
- Ultramarines
- Boron Nitride

Industrial field:

- Industrial diamonds



MC DecJet® - patented technology

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