



# EXCELLENCE

in Bulk Solids Metering for  
Pharmaceuticals & Nutraceuticals



  
**AccuRate**<sup>®</sup>  
BULK SOLIDS METERING  
A Unit of  SCHENCK AccuRate.



## Dry Ingredient Metering Solutions For Over 35 Years

For more than three decades, AccuRate® screw feeders, vibratory feeders, weighbelt feeders, and bulk bag discharging systems have been the products of choice for pharmaceutical processes worldwide. Whether it is tablet coating, multi-ingredient batching, intermediate bulk packaging or jet milling, AccuRate® has the right bulk metering solution. Through close working relationships with our customers, we've excelled at inventing and advancing award-winning product and system designs that feature the quality, versatility, cleanability, and performance required by today's pharmaceutical and nutraceutical processes.

## Design, Quality, & Versatility

We know that pharmaceutical and nutraceutical processes involve a wide range of materials, material characteristics, and feed rates. Additionally, active ingredients, fillers, coatings, etc. vary widely in bulk density, particle size, and flowability. That's why we offer products based around several metering technologies including auger metering, vibratory metering, and even belt metering. That versatility lets us focus on what's best for you and the application. Whether your materials are powders or tablets, free-flowing or not, we have a solution for feed rates ranging from 5 gm/m or 300 gm/hr to 1,137 ft³ (32,200) l/hr.

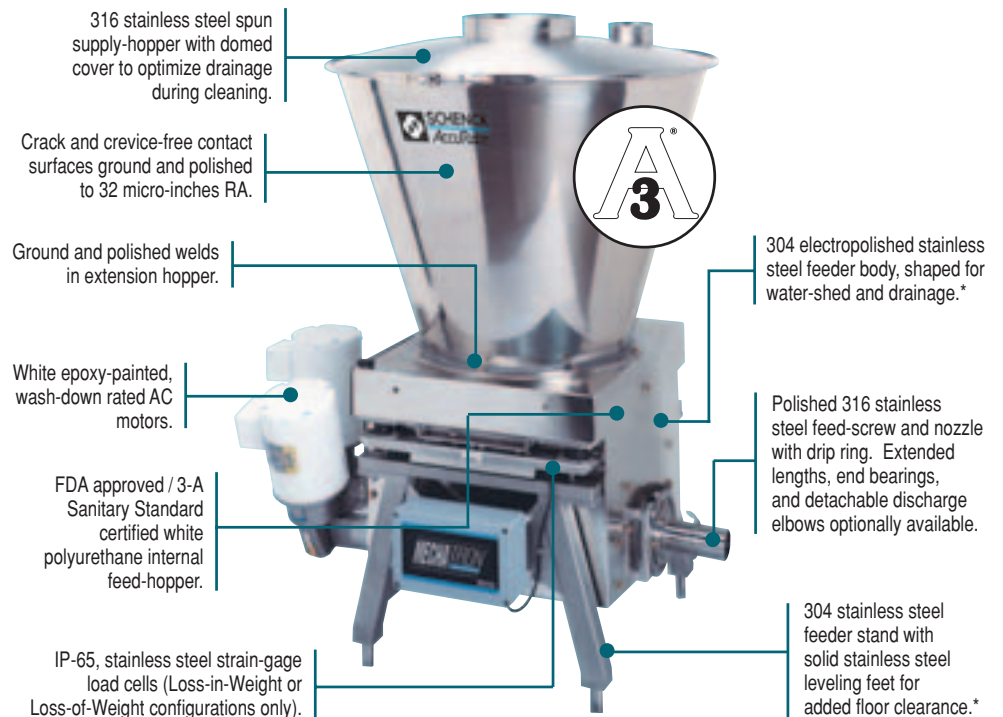
AccuRate® products are also designed to meet the wide variation in sanitary criteria present in the pharmaceutical and nutraceutical industries. Whether your application is classified as low-level sanitary, 3-A Sanitary Standard level or a level unique to your firm and process, we have product contact and non-contact materials, weld quality, surface finishes, and gasket materials to suit it.

**MECHATRON®** feeders allow you to quickly reconfigure, clean, or service from non-process side



## 3-A SANITARY FEEDER

Volumetric and gravimetric (weight-controlled) configurations available.



NOTE: Electropolishing, passivation, and other surface preparations are optionally available.  
\* 316 or 316L stainless steel is optionally available.

# Pharmaceutical & Nutraceutical Applications

## Metering Performance & Accuracy

Versatility is also evident in the control packages supplied with AccuRate® products and systems. For feeding jet mills and tablet coaters, there are volumetric control packages with or without 4-20 mA analog inputs and outputs. For weight-based continuous feed applications, batching applications or packaging applications, DISOCONT®-based gravimetric control packages deliver 24 million counts of resolution, refill control, statistical process control (SPC), and DeviceNet, Profibus, Modbus or EtherNet upstream and downstream communications capability. When it comes to 21 CFR Part 11, we are ready to provide pertinent process information in the format that works best for you.

## Award-Winning Cleanability

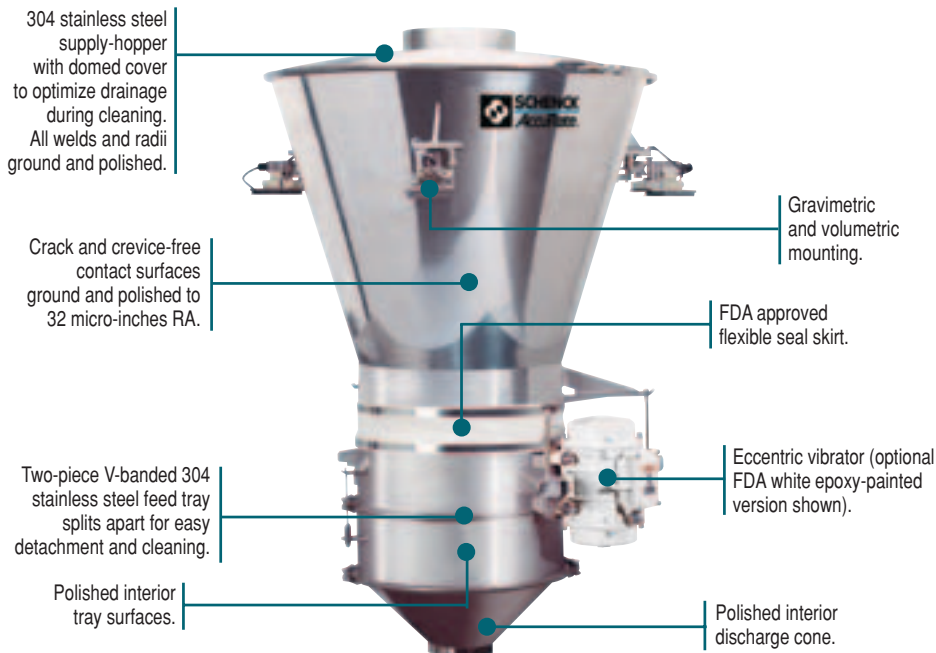
Ease of disassembly, cleanability, and serviceability have been primary design objectives for all AccuRate® products. Take MECHATRON®. The feeder totally disassembles for cleaning or service from the non-process side. Our sanitary grade SolidsFlow® louvered vibratory feeders feature a unique 2-piece V-banded tray design that splits apart to make cleaning very easy and quick.

## Validation-Ready Documentation

The right documentation is at least as important as the right equipment for completing a dry ingredient-metering project successfully. That's why we've chosen to work with industry professionals to make sure the certifications, certificates of conformity, IQs, OQs, PQs, SOPs, and FATs associated with our equipment could be provided quickly and cost efficiently. We understand their significance.

## SANITARY GRADE LOUVERED VIBRATORY FEEDER

Volumetric and gravimetric (weight-controlled) configurations available.



NOTE: 316 or 316L stainless steel, electropolishing, passivation, and other surface preparations are optionally available.

NOTE: All sanitary grade SolidsFlow® 2000 feeders are designed and manufactured to 3-A Sanitary Standards. However, as there is no 3-A Sanitary Standards category for vibratory feeders, a 3-A certification symbol cannot be assigned.



SolidsFlow® feeders allow easy, quick disassembly for cleaning and servicing



## Sample Applications

### TABLET COATING

AccuRate® screw feeders are routinely used to meter the powdered materials for coating beads and tablets. AccuRate® DEA weighfeeders are used to meter the tablets themselves in coating processes.



### SIZE REDUCTION

Our volumetric and gravimetric feeders routinely meter materials into jet mills used to do fine grinding. By accurately and consistently charging the jet mill, the milling process and particle size uniformity are optimized.



### SINGLE & MULTI-INGREDIENT BATCHING

Accurate® feeders are perfect for recipe-based batching applications. Automated sequential or simultaneous multi-ingredient batching eliminates manual weighing, allows for product containment eliminating exposure risks, and provides the batch weight and time data needed for verification. Discharge and meter materials are supplied in bulk bags, paper bags, or drums. The DG-2000™ Group Manager makes ratio batching and recipe set-up simple and straightforward.

### INTER & INTRA-PLANT INGREDIENT PACKAGING

Package individual materials and material blends in bags, boxes, or drums for movement within or between plants or parts of the manufacturing process. Improve batch accuracies. Track and verify material movement by weight. Eliminate exposure risks. Using AccuRate®'s SolidsFlow® louvered vibratory feeders, you can bulk package tablets or beads without breakage.

## ROI – The Bottom Line

As with all businesses, we know, return on investment (ROI) is what's important when selecting capital equipment. Given the unique R&D, pilot production, ramp-up, and validation costs associated with pharmaceutical and even nutraceutical manufacturing, nowhere is that more true. That's why our focus has been on maximizing your ROI by supplying high quality, high performance, and versatile dry ingredient metering equipment that installs easily and performs flawlessly for years. For ROI and the lowest cost of ownership in the industry, AccuRate® is your best choice.

**AccuRate® – Committed to quality, versatility, performance, service, and the lowest cost of ownership in the industry.**



**BULK SOLIDS METERING**

A Unit of **SCHENCK AccuRate**

746 E. Milwaukee St., P.O. Box 208

Whitewater, WI 53190

(800) 558-0184 • (262) 473-2441

Fax: (262) 473-4384

[www.accuratefeeders.com](http://www.accuratefeeders.com)

E-mail: [mktg@accuratefeeders.com](mailto:mktg@accuratefeeders.com)

©2004 SCHENCK AccuRate®

