

FEED TECHNOLOGY SERVICES @ EVONIK ANIMAL NUTRITION



Handle micro-ingredients with ease and precision

Tiny proportions have huge effects. Whether medical additives, vitamins, enzymes or amino acids, micro-ingredients can make all the difference in feed. No wonder micro-ingredient dosing and handling are such critical factors in profitable feed production.

The globally leading animal nutrition specialists at Evonik have developed handling solutions (**AMINOSys® DOSING SYSTEMS**) and services to bring feed production up to the next level of efficiency. Based on the requirements for product dosing and handling – whether tiny proportions or full bulk deliveries – you can count on our local feed technology experts for the support you need to optimize your processes.

Adding a high number of different micro-ingredients directly to your feed composition allows fine-tuning of least-cost formulations that optimize animal performance according to the needs of the individual species and age groups. No wonder the number of micro-ingredients continues to increase in step with scientific advances in animal nutrition. Manual handling of bagged micro-ingredients is labor-intensive. Dosing may become a bottleneck and significant cost-driver for your process.

Evonik Animal Nutrition has the answer, with a dosing and handling portfolio that includes solutions and services for full bulk, big bag and – new – small bag deliveries to improve feed mill productivity and feed quality.

AMINOSys® DOSING SYSTEMS HELP OUR CUSTOMERS TO MANAGE THEIR DOSING PROCESSES

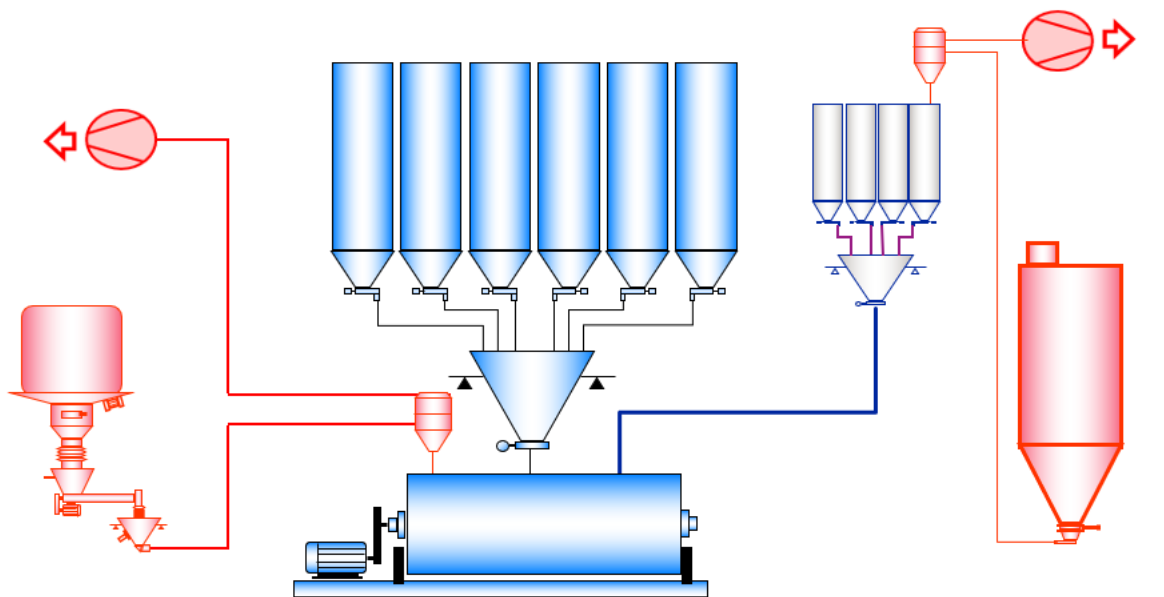
Evonik AMINOSys® dosing system provides our customers with several benefits. These include

- accurate and reliable amino acid dosage going into the mixer (+/- 50g per batch)
- storage, dosing and conveying of up to six micro ingredients
- fully automated dosing process (integrated into the feed mill process control system).
- long-term customer relationships for more than 30 years on six continents.
- Today over 700 systems are installed, running and linked with approximately 65 million tons of feed production per year.

AMINOSys® IS TAILORED TO YOUR NEEDS

- Evonik AMINOSys® provides solution for dosing and pure conveying systems

Dosing System

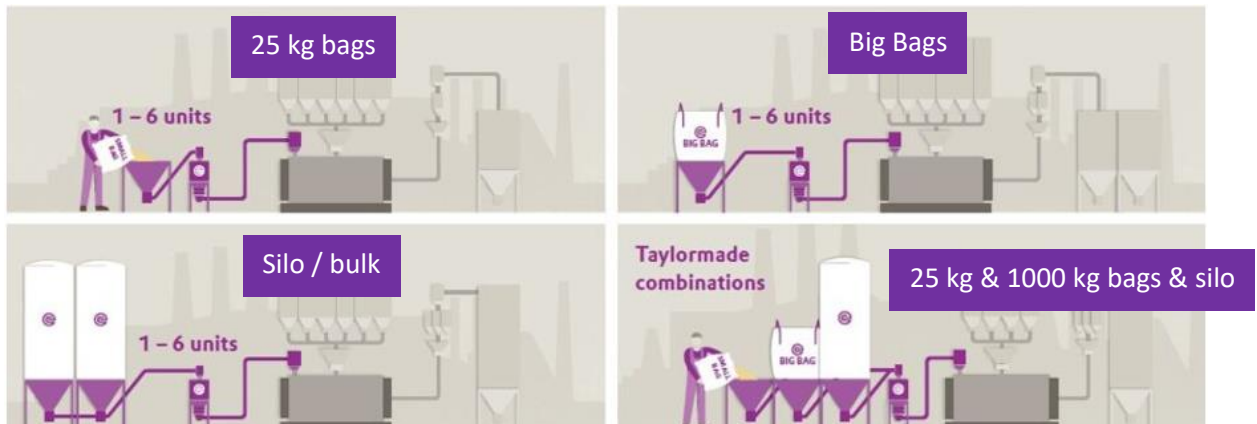


Conveying System

- Evonik AMINOSys® provides solutions for all packaging forms

Full Bulk	Small Silo	Big Bag	25kg Bag
			

- **Evonik AMINOSys®** is a flexible turnkey solution



- **Evonik AMINOSys®** is adjustable for every batch size

Dosing range of 1 – 150 kg			Dosing range of 0.1 – 10 kg		
Full Bulk	Big Bag	25kg Bag	Loss-In-Weight (25kg Bag)	1 Product (25kg Bag)	4 Product (25kg Bag)
					

BENEFITS AT a glance

- Evonik your “one-stop shop” with proven expertise (over 30 years) and excellence in amino acid handling
- Onsite surveys and consulting for process evaluation
- Handling solutions for multiple amino acids
- Precise, flexible and easy-to-integrate solutions
- Services tailored to your needs
- Technology engineered and manufactured in Germany
- Expert and reliable after-sales service globally

Simple, efficient – and tailored to your needs

Regardless of the size or type of feed mill or integrated livestock operation you run, applied feed technology services from Evonik will enhance your efficiency and profitability. Ask your local Evonik contact to find out more about how you can profit from our technical solutions. Let’s talk about

what our customized tools, services and know-how can do to take your business to the next level – and set you apart from competitors.

AMINOSys@evonik.com or via our website or microsite