



# CROSSWIND EXTRUSION SOLUTIONS



## Designed to feed innovation

Extrusion is a highly versatile and cost-effective means of production. It also provides precise control to ensure consistently high-quality pet foods and treats.

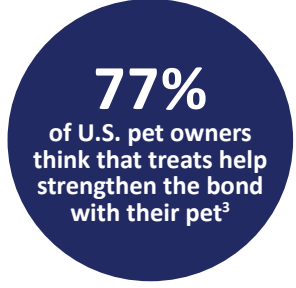
With the demand for better nutrition, superior palatability and safer pet food, extrusion is an ideal solution and key element to meet the complexities of today's growing pet food and treat market.

### ABILITY. AGILITY. ADAPTABILITY.

Each is a key ingredient in developing successful, high-quality pet products at a great value.

Combining a legacy of manufacturing expertise with decades of collective ingredient knowledge and service, Crosswind Industries provides custom pet product processing, fueled by R&D innovation and an extensive pantry of pet-appropriate ingredients.

Our team's knowledge of extrusion machinery and processing systems means we not only understand the perfect blend of ingredients for your product, we recognize the best way to make it.



<sup>1-3</sup>Euromonitor, 2020



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## Agile Manufacturing Expertise

Crosswind is an agile innovation partner with the ability to move proactively, giving you flexible manufacturing that drives more finished product options and greater operational efficiency. We have the deep technical know-how to adapt any process to create a targeted solution and to understand how ingredients are affected by the extrusion process, helping you develop specific types of products from pet treats to packaged pet foods, and every extruded thing in between.

- Ability to efficiently retool production lines to meet the needs and expectations for your products
- Expertise to accommodate manufacturing of multiple different products, each made with several different process flow setups



Expertise, service and customization—they're all here for you.



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## Novel textures and ingredients

Choose from a large pantry of ingredients—ranging from traditional corn, oilseeds and wheat products to functional ingredients used as sources of protein, fat, energy, fiber and carbohydrates—to meet a variety of dietary and consumer needs. ADM is on the leading edge of evolving pet food trends, so we can offer you a full range of starches, ancient grains, alternative proteins, non-GMO and certified organic products.



- ALTERNATIVE PROTEINS
- AMINO ACIDS
- ANCIENT GRAINS
- ANTIOXIDANTS
- COLORS FROM NATURE®
- FRUITS & VEGETABLES
- GUMS & GELS
- LECITHIN
- MINERALS
- NON-GENETICALLY MODIFIED INGREDIENTS
- ORGANICALLY CERTIFIED INGREDIENTS
- PRE-COOKED BEANS
- PROTEIN CONCENTRATES
- SOY FLOUR & SOY GRITS
- SPECIALTY TVP
- STARCHES
- VITAMINS



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## Engaging Expertise and Collaboration

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When you partner with ADM and Crosswind, you benefit from vast research and development capabilities in the hands of our application experts and food scientists, who are focused on new and innovative extrusion solutions.

We're building upon the ADM legacy of innovation at our new industry-leading, customer-focused Food Application Center and Animal Nutrition Technology Center, both located in Decatur, Illinois. Both centers provide capabilities to enhance customer collaboration and develop fully-tailored nutrition solutions, with the collective knowledge of our food scientists and engineers.

**The Animal Nutrition Technology Center is specifically designed to serve the needs of the broad animal nutrition market, with a focus on developing ingredient and nutritional solutions for pet foods and treats. It features state-of-the-art technology, including:**

- A pilot extrusion facility, fully equipped to run multiple small batches in a single day to assess ingredient functionality in extruded pet products
- A pet food culinary kitchen, providing an interactive experience for customers to aid in product development and product performance evaluations
- A feed evaluation laboratory with specialized screening, including in vitro and simulated digestion analyses
- An enzyme analysis laboratory to support the development of novel feed enzymes

# More Applications, More Benefits

Create more consumer appeal with versatile extrusion solutions in your:



## CLAIMS AND CERTIFICATIONS:

**AFIA® AMERICAN FEED INDUSTRY ASSOCIATION**

**FAMI-QS BY SGS**

**USDA APHIS ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

## ADM DELIVERS FOR YOU

A vertically integrated global pet nutrition solutions provider, ADM Pet Nutrition has specialized in formulating and manufacturing custom premixes and ingredient blends for more than 40 years. We offer the most comprehensive range of products and value-added services in the pet food industry, leveraging the resources and unmatched expertise of one of the world's largest agricultural processors and food ingredient solutions providers. Choose from a variety of custom blends such as vitamin premixes, trace mineral premixes, and dry ingredients blends, carefully selected from our pantry portfolio of ingredients to meet your application needs.



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