Custom designs

Competitive pricing

High-quality construction

Durable, proven technology
Process Engineering and Fabrication designs and manufactures high quality custom stainless steel conveyor systems and other food processing equipment solutions essential to economical, space efficient, continuous processes.

Our spiral systems are customizable, easy to maintain, durable, and long lasting. PEF can supply clients with spirals that process between 500 to 50,000 lbs an hour. Since spiral conveyors use vertical space instead of precious horizontal floor space, they integrate seamlessly into existing factory floor plans to save our customers time, space, and money.

We design and build all spirals onsite in our 13,000 square foot facility in Afton, Virginia. PEF engineers will come to you to survey your facility and gain firsthand knowledge of your needs and your installation site. We will work with you through the initial quote, design, and installation process to ensure that you get the perfect spiral to suit your requirements.

Industries that use PEF spirals include:

- Seafood processing
- Protein processing
- Bakeries
- Vegetable processing
- Pharmaceuticals
- Other manufacturing applications that require continuous process production methods.

PEF spiral conveyor systems are in operation in plants across North and South America.

www.ProcessEngineeringInc.com
PEF designs spirals for a variety of commercial and industrial applications. Though typically used in the food processing industry for applications from freezing to chilling, we have also designed custom spirals for the pharmaceutical, adhesives, and cosmetic industries.

Our custom spirals are modular and adaptable to your future requirements. PEF keeps simplicity and maintenance in mind on all of our custom built spiral conveyors. A large range of infeed and discharge options, as well as multi-conveyor or double-tower spirals, are available for diverse production needs.

Spiral Features
- Freon, ammonia, liquid nitrogen, or CO2 refrigeration packages
- 3-phase power according to the facility voltage
- Stainless steel mesh overlay conveyor belt is the most common, but we provide many types of belts, including acetal.
- Common refrigerant temperatures range from -40°F to 0°F, selected for a balance between speed and energy efficiency.
- Fast air defrost, hot gas, electrical or hot water are possibilities.
- Adaptable for any plant layout

Customizable Configurations
- Numerous infeed and discharge options
- Multi-product or multi-flow processing
- Variable speed conveyors
- Controllable temperature and humidity zones

Spiral Applications
- Freezing
- Chilling
- Cooling
- Proofing
- Curing
- Cooking
- Blanching
Durable and long lasting welded construction

- Stainless Steel (T-304/A2) and UHMW plastic
- Wide range of high quality stainless steel and plastic belting available
- Sturdy NEMA4X rated control panels

Easy to maintain and service quickly with non-proprietary components

- Fully wash down ready installations
- Belt washers, clean in place, and defrost capabilities

Additional options include:

- Advanced Internet ready control panels
- HEPA filters
- Belts with side guards and additional product positional aids

Installation and Technical Support

- Variety of installation options
- Installation worldwide
- Preventative maintenance contracts available
- Onsite service
- We service and maintain all manufacturers' spirals
- Engineering consultations
- Retrofitting of existing spirals for new applications
- Extensive belt replacement and service.