



CENTURY EXTRUSION

Your Partner in Productivity

Corporate Capabilities

Twin Screw Extruders, Replacement Parts, and Services

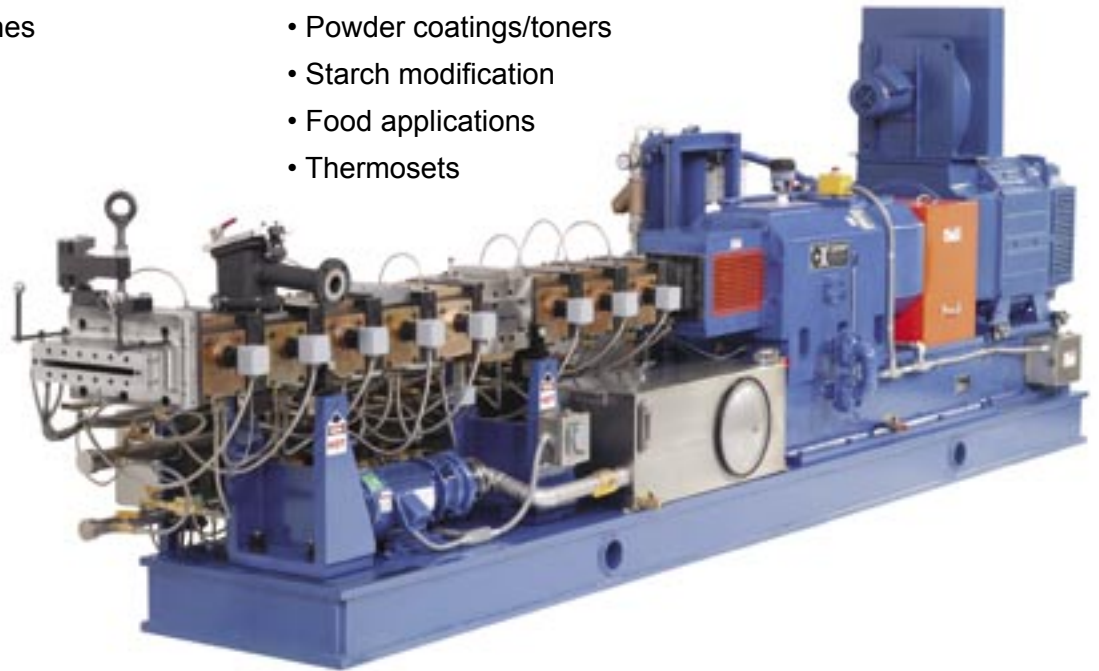


Twin Screw Extruders: The Century CX Series

The twin screw compounding extruder uses co-rotating, intermeshing screws with a self-wiping profile, which assures highly efficient conveying, mixing, and pressure control.

The processing section's modular design allows unlimited flexibility in screw design and process layout. This makes the machine a universal processing system that will handle the most demanding thermoplastic, thermoset, chemical, reactive, and food process applications:

- Compounding of fillers/reinforcements
- Color concentrates
- Functional masterbatches
- Polymer alloying
- Reactive extrusion
- Devolitzation
- Recycling
- Stabilization and viscosity modifications
- Continuous processing of chemicals
- Powder coatings/toners
- Starch modification
- Food applications
- Thermosets



Industry Standard Processing Section

The Century Extrusion CX series standard and high speed/high torque models utilize the world's most common twin screw geometry. The CX series design incorporates the industry standard 1.55 Do/Di ratio allowing customers to take advantage of the Century Extrusion value proposition without shouldering the high costs of qualifying a new process section geometry.

Reliability

The CX series twin screw extruder is among the most robust machines available today. All components contributing to reliability have been designed to stand up to the most demanding production environments.

As the leading global supplier of high performance replacement parts, Century Extrusion has developed the most wear resistant screw and barrel materials available. Century Extrusion CX model extruders are shipped with proprietary 10V-12 HIPped powder alloy screw elements and Tungsten Carbide lined barrels.

Century Extrusion also utilizes cold-forming technology to ensure the highest torsional loads in the industry.

High Speed/High Torque Gearbox

Century Extrusion's high speed/high torque gearbox was co-developed with one of the world's leading suppliers of twin screw gearboxes.

In addition to the highest power and safety factors available, the Century Extrusion gearbox offers a main bearing life of up to 50,000 hours.

Since the series was developed, there has never been a failure in the field.

CXSF Side Feeders

The Century Extrusion CXSF employs screws with a self-wiping profile to provide optimum feeding properties for a wide range of raw materials such as mineral fillers, fiberglass, pellets, and most powder type additives.



Controls

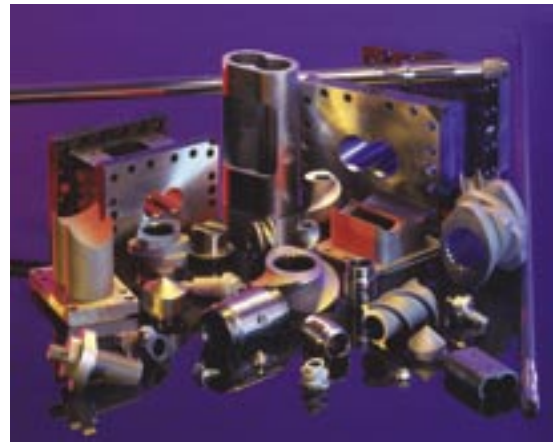
Century Extrusion control systems are based on industry standards, incorporating Rockwell Automation Control System and Allen Bradley SLC-500 PLC™ architecture. Recipe storage and machine setup parameters including temperature, motor speeds, alarm set points, and feeder specifications are all at the user's fingertips.



Replacement Parts

In addition to providing high performance replacement parts for its own CX model, Century Extrusion manufactures high performance replacement screws, shafts, barrels, and accessories for more than 25 brands of twin screw extruders including:

- Coperion (Werner & Pfleiderer)
- Berstorff
- Davis Standard
- Leistritz
- Buhler
- Clextral
- APV/Baker Perkins
- B&P Process Equipment
- Entek
- Toshiba
- Many more



Century replacement parts are designed to meet or exceed OEM specifications in every way. We can offer industry standard materials of construction or very specialized alloys enabling you to optimize your equipment and reduce downtime in even the most specific applications.

In addition, we are committed to offering the best *cost-per-wear* solutions available today.

In support of our commitment, Century Extrusion places a very high priority on the continuous improvement of our manufacturing processes and on the development of advanced materials of construction. To date, Century Extrusion has provided parts manufactured from more than 64 different materials including:

- Nitrided
- D2
- Cast Chromium
- PM 9V, 10V, and 15V
- Century 10V-12
- Specialized powdered metal alloys
- Tungsten Carbide
- Numerous HIPped materials



Equipment Upgrades

Century Extrusion has the capability to help you get the most of your twin screw investment. Century Extrusion offers the following upgrades to help you increase throughput, improve product quality, and advance the safety of your twin screw extruder.

- Complete refurbishment
- Conversion to high speed/high torque
- Process section extensions and/or modifications
- Gearbox replacements
- Controls



Support Programs and Services

Century Extrusion has developed a host of services to help you minimize your downtime and reduce the resources required to run and maintain your equipment.

- Millions of dollars in spare parts inventory
- Parts inventory stocking and management programs
- Part inspection services
- Barrel refurbishment
- Stacking/destacking service



Consulting and Troubleshooting

Process Design

- Screw design
- Translation
- Custom equipment

Wear Analysis

- Mechanical integrity
- Metallurgical analysis (failure analysis, properties testing, and application support)

Process Development and/or Troubleshooting

- Theoretical
- Process laboratories

Extrusion Training Programs

- Twin screw technology
- Operation, preventative maintenance, and best practice

Field Services

- Startup and commissioning
- Troubleshooting
- Wear audits
- Equipment audits

Customer Support 24/7

- Century Extrusion's team members are knowledgeable, responsive, and trained to provide solutions. Whether you need us to check the status of an order, or recommend the most appropriate materials of construction for your application, we are here to help.
- Century maintains a 24-hour emergency service hotline that will cover you all day every day.
- As part of the CPM global network, Century Extrusion is now able to offer supporting services in the Americas, Europe, and Asia.



Our Commitment

Century Extrusion understands the unique challenges that processors face. We work continually on the development of new technologies that enable companies to increase their productivity and business success.



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