

## Aftermarket & Life Cycle Management

With a long history in single screw extruder aftermarket services, our team will help you determine the most cost effective way to restore your older machine to its original performance or upgrade that machine to perform as well as the best modern extruders on the market today.

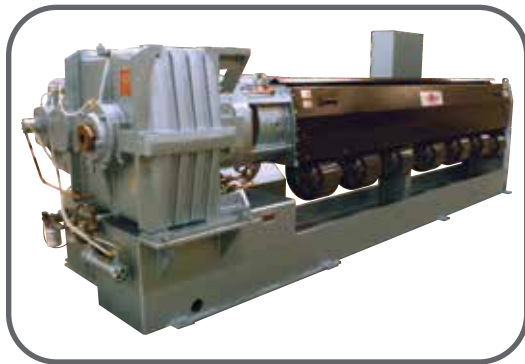
130mm 30:1 L/D Water to Air Cooling Conversion    Conversion from 3.5" 24:1 L/D to 100mm 24:1 L/D



**Before**



**Before**



**After**



**After**

If you need to expand capacity and a new extruder is not in the budget, we can help you evaluate and select the best possible candidate and then upgrade it for a fraction of the price of new. Contact your Regional Manager to learn more.

- Gearbox Rebuild or Replacement
- Water to Air Cooling Conversions
- Increase Barrel Diameter
- Modify Barrel Length
- Drive/Motor Replacement
- Controls Upgrade
- For Any Brand Extruder

## Electrical Packages

Our electrical upgrade packages enable you to cost effectively repair, convert, and/or update any brand of existing extruder and any type of controls in order to improve performance and your bottom line.

- **Drive replacements:** Upgrade to energy efficient AC drive, permanent magnet motors, compact motor gear (CMG) or direct drive configurations (gearless)
- **Control faceplate replacement for discrete or modular/rack mount systems:** Replace the external operator devices and/or internal components for easier operator interface and greater reliability and performance
- **Complete control panel replacement:** Eliminate old unreliable controls and environmentally hazardous mercury contactors and replace the entire panel with state of the art components
- **Coordinated line drive packages for multiple extruders and/or downstream drives:** Control and trim multiple extruder and downstream drives with a single master reference for more efficient operation
- **XC100, XC200 or XC300 Navigator control:** Choose from three customizable levels of touch screen systems configured specifically for your application



## Complete Foam Line Rebuild with 120mm & 150 mm Extruders



*Before*



*After*

## New Gearbox and Drive on 2.5" 24:1 L/D



*Before*



*After*

## 3/4" 24:1 L/D Conversion for FEP Corrosion Resistance



*Before*



*After*

## 6" Gearbox Replacement for Blown Film



*Before*



*After*

We offer a full range of aftermarket services to repair, convert, and/or upgrade any brand of existing extruder in order to cost effectively improve its performance and your bottom line.

Additional services are also available including use of our extrusion lab, technical training of your personnel, plant audit services, borescoping, installation/relocation services, etc.

## Mechanical Packages

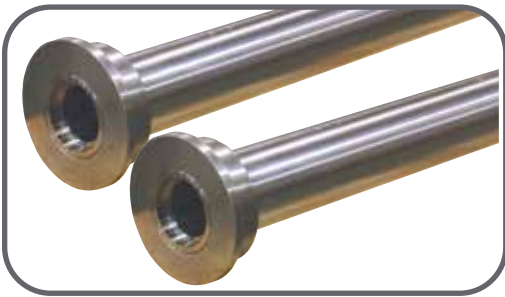
Mechanical repair, rebuilding, and upgrading services can be performed in our York, PA facility. We can service **any brand and size** single screw extruder and will custom tailor our work to provide you the best value and return on your investment. Some of our most popular aftermarket projects include:

- **Gearbox rebuilding or replacement:** We can repair or replace most brands of extruder gearboxes with a modern gearbox to provide higher torque and greater reliability
- **Increase barrel diameter:** Our Internal Barrel Diameter Increase (IBDI) upgrade can increase your output with a moderate investment and little or no additional floor space
- **Water to air barrel cooling system conversion:** Convert your high maintenance, poor performing water cooling system to our proprietary Turbo-Air Cooling System (Ask for our ANTEC® paper comparing the performance of various cooling systems)
- **Modify barrel length (L/D):** Increase the barrel length for enhanced output, add venting, or reduce barrel length, including our Steward Barrier Screw for "No Risk" guaranteed performance



## Screws

With a very large data base of screws performing for thousands of customers in the field, we are able to offer proven screw designs for processing a wide variety of polymers. This experience and expertise enable us to provide screw performance assurance related to output rate, melt homogeneity, melt temperature, and drive torque required.



## Barrels

We can provide replacement barrels for **any brand and size** single screw extruder. Standard liners, high tungsten, or low/no iron are also available for abrasive and corrosive wear applications.



## Service

We offer a full range of aftermarket services for any brand extruder to cost effectively improve its performance.

- Repair
- Convert
- Upgrade
- Installation
- Relocation
- Extrusion Lab
- Technical Training
- Plant Audit
- Borescoping



## Parts

For many well known brands of extruders, we can supply common spare parts including:

- Rupture Discs
- Barrel Heaters/Coolers
- Barrel Thermocouples
- Pressure Transducers
- Die Thermocouples
- Temperature Controllers
- Breaker Plates
- Screen Packs
- Thermocouple Adapters
- Clamp Heaters
- Barrel Blower Motors
- Solid State Relays