



A new product line of AFC-Holcroft

# EZ Lynks

TM

Flexible Heat Treatment  
for **LARGE** Components



*Innovative Products. Global Solutions.*



## Known for innovative products and global solutions...AFC-Holcroft introduces **EZ Lynks**, a flexible heat treatment system for large parts and components, expanding its already extensive offerings of thermal technologies.

### What is **EZ Lynks**?

**EZ Lynks** is a flexible heat treatment system for large parts or components in the alternate energy, mining, marine, earth moving and other industries that require carburizing, hardening and related heat treating processes.

Designed for easy installation into the traditional industrial plant, no modification is required to the existing infrastructure. Open and expandable designs allow more efficient production while maintaining part integrity.

### Who could benefit from **EZ Lynks**?

Companies looking for an alternative to pit furnaces because pits can't be installed or aren't desired, have height limitations and/or requiring process capacity up to 15,000 lbs (6,800 kg).

### Typically, what types of parts are processed in **EZ Lynks**?

Gears up to 84" \*diameter (2.1 m) and shafts to 70" long [high] (1.8 m). Any load configuration that can fit within the 84" L x 84" W (2.1 m L x 2.1 m W) x 36" (0.9 m) or 72" (1.8 m) high weighing up to 15,000 lbs (6,800 kg).

*\* Larger sizes can be accommodated upon request.*

### What are the benefits of processing parts in an **EZ Lynks System**?

Primary advantages over pit furnaces:

- Requires only 18.5 foot (5.6 m) ceiling height or less.
- No floor pits required.
- Since loads are not hung but placed on trays, no massive supporting structure is required; hence, very low fixture costs and weights.
- In some cases, large gears can be placed directly on the work support system.
- Loads are moved through the cell via an automated shuttle, eliminating the manual and risky manipulation of a bridge crane, and the associated cost and manpower.
- Quenching is automated and protected, so the flame usually associated with open tank oil quenching is drastically reduced.
- Utilizing the single layer concept, quench related distortion can be reduced with recipe-specific fluid flow, thereby saving many hours of post heat treat grinding.

- Overall processing is recipe-driven, much like a UBQ batch cell, through all process stations: carburizing, quenching, wash, temper and load and unload.
- Smaller loads than large pit furnaces allow more flexibility.
- Excellent process quality and consistency when transfer to quench in air is acceptable.
- Flexible quench media solutions.

### Is this design proven?

Yes. AFC-Holcroft has taken its over 90 years of experience in proven designs and incorporated the best attributes, functionality and features to create **EZ Lynks**.

### How does **EZ Lynks** work?

**EZ Lynks** takes automation of the UBQ batch cell and integrates large load heat treating into the manufacturing process by eliminating the awkward maneuverings of a bridge crane into and out of equipment.

An automated lift and place transfer shuttle moves the load through the heat treating cell with positive positioning at each location. Each process station is linked, via recipe, to load and unload each station according to the specific recipe. Equipment doors are designed to eliminate the need for extra height, as the oil quench is designed to eliminate the need for a pit.

### What equipment components create an **EZ Lynks System**?

The **EZ Lynks** System encompasses three to five equipment components, depending upon production requirements. Schematic drawings (plan view and elevation view) depict typical equipment.

#### Equipment Key:

 **Furnace:** Single Layer or Tall Single Layer Furnace

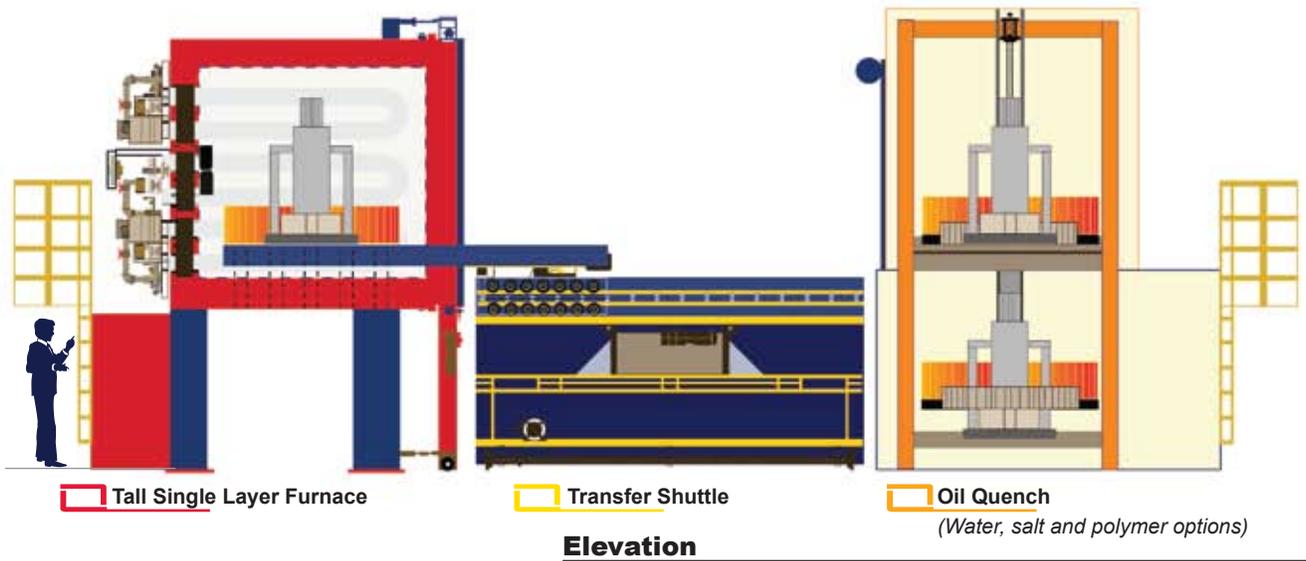
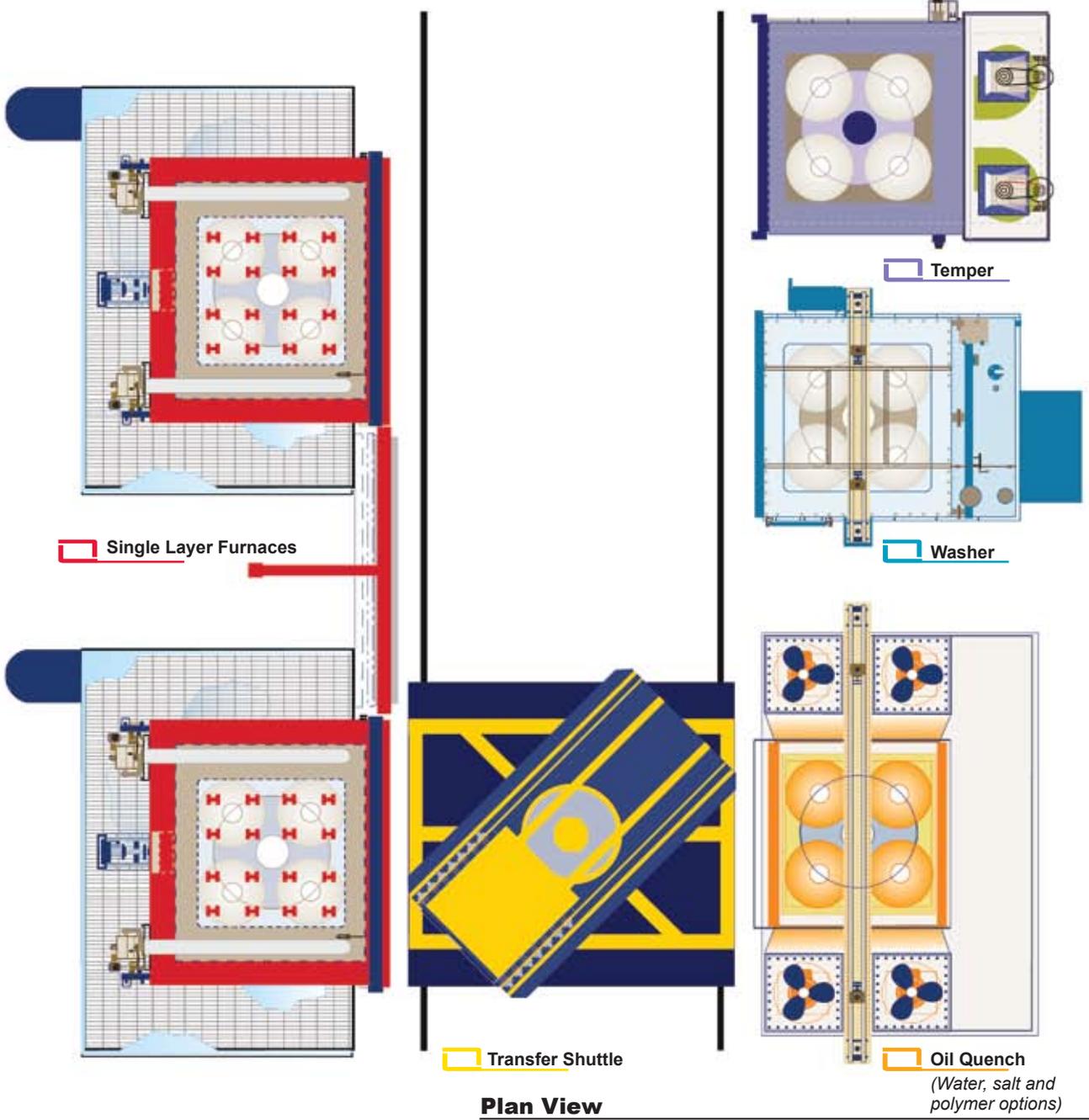
 **Transfer Shuttle**

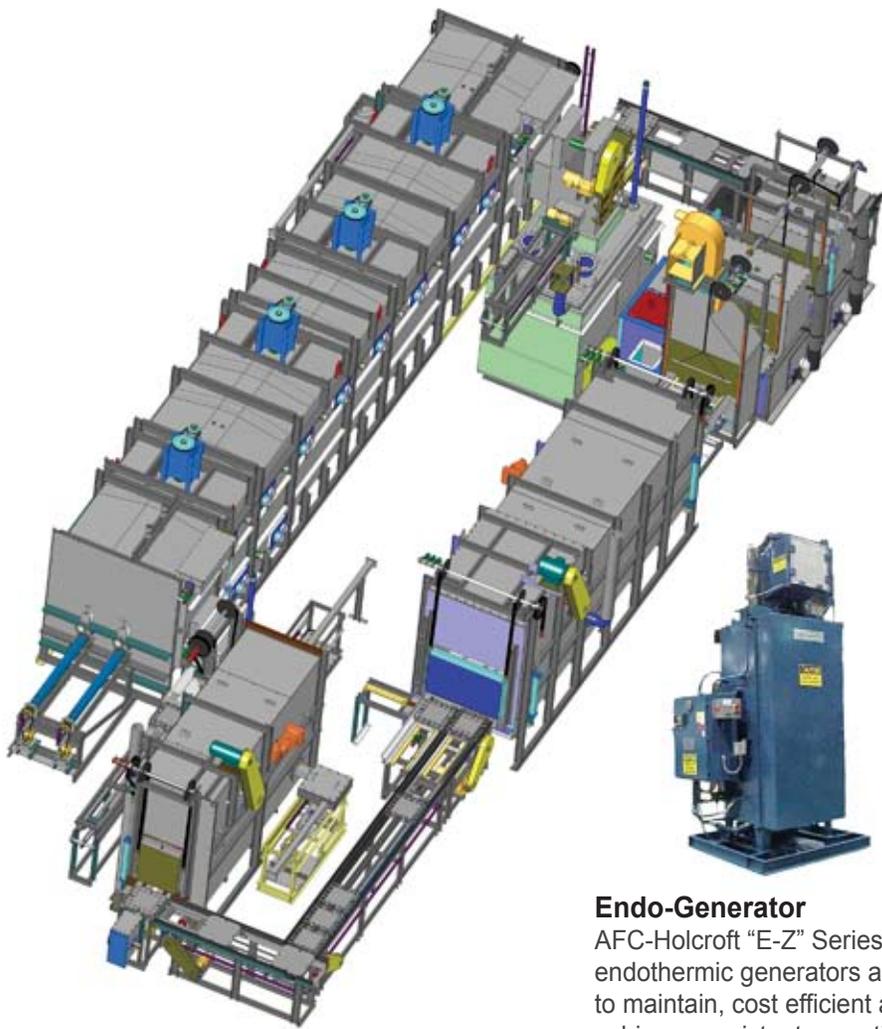
 **Oil Quench** (Water, salt and polymer options)

 **Washer**

 **Temper**







### Pusher Furnace System

Synonymous with AFC-Holcroft, our pusher furnaces achieve high part quality at maximum production levels. Design features include separate temperature and atmosphere control zones, strategic location of circulating fans, drop arches, and gas inlets. High-volume atmosphere circulation allows each furnace zone to be individually controlled during heating, carburizing, or diffusion phases.

**Trust AFC-Holcroft**  
for its proven innovative  
product design and experience  
in every market.

It's equipment  
you can  
believe in.



### Endo-Generator

AFC-Holcroft "E-Z" Series endothermic generators are easy to maintain, cost efficient and achieve consistent operating results. Additional features include:

- Endoljector™ system provides automatic 5:1 turndown
- Automatic dew point control
- Modular designs: 1800 cfh –13,500 cfh (51-382 cmh)
- Hinged maintenance door—easier and lower height requirements
- Recuperative type combustion system saves energy
- Air cooled - no water required



### Universal Batch Quench Furnace (UBQ)

The UBQ is AFC-Holcroft's most popular equipment line, meeting tough performance standards. Known for its product and process flexibility; shorter heating rates; reliable user-friendly controls system; superior quench system; vertically mounted radiant tubes; excellent temperature uniformity; and maintenance-friendly design.

*Innovative Products. Global Solutions.*



A Global Manufacturer of Thermal  
Processing Technologies for  
over **90 Years.**

#### AFC-Holcroft

49630 Pontiac Trail  
Wixom, MI 48393-2009  
Phone: 248.624.8191  
Fax: 248.624.3710  
E-mail: sales@afc-holcroft.com

#### AFC-Holcroft Europe

Route de France 17  
2926 Boncourt, Switzerland  
Phone: +41 32 475 56 16  
Fax: +41 32 475 55 70  
Email: europe@afc-holcroft.com

[www.afc-holcroft.com](http://www.afc-holcroft.com) for more information.