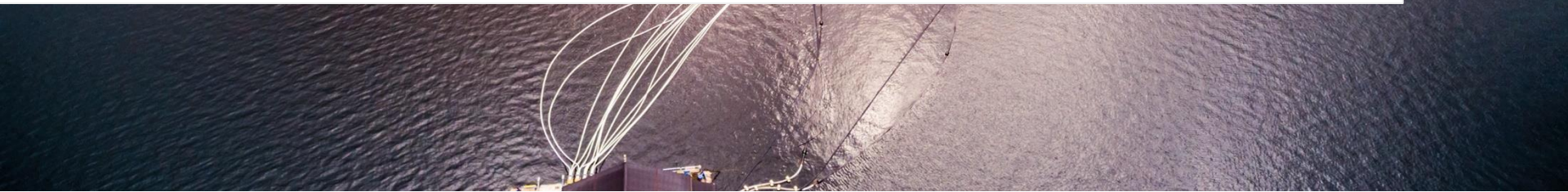


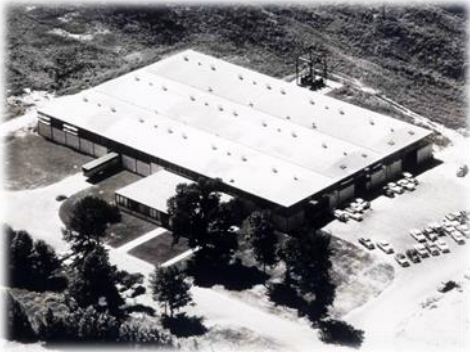


**wieland** Welcome to  
**Small Tube Products**  
Duncansville, PA



## Agenda

- Ownership
- WSTP's role in the supply chain
- Core Competencies
- Product Portfolio
- Markets we serve
- How we go to market



*Skilled Producers of  
Copper and Brass Tubing  
Since 1947*



# Wieland Acquisition – August 1, 2023





**Business Unit**  
**Thermal Solutions**

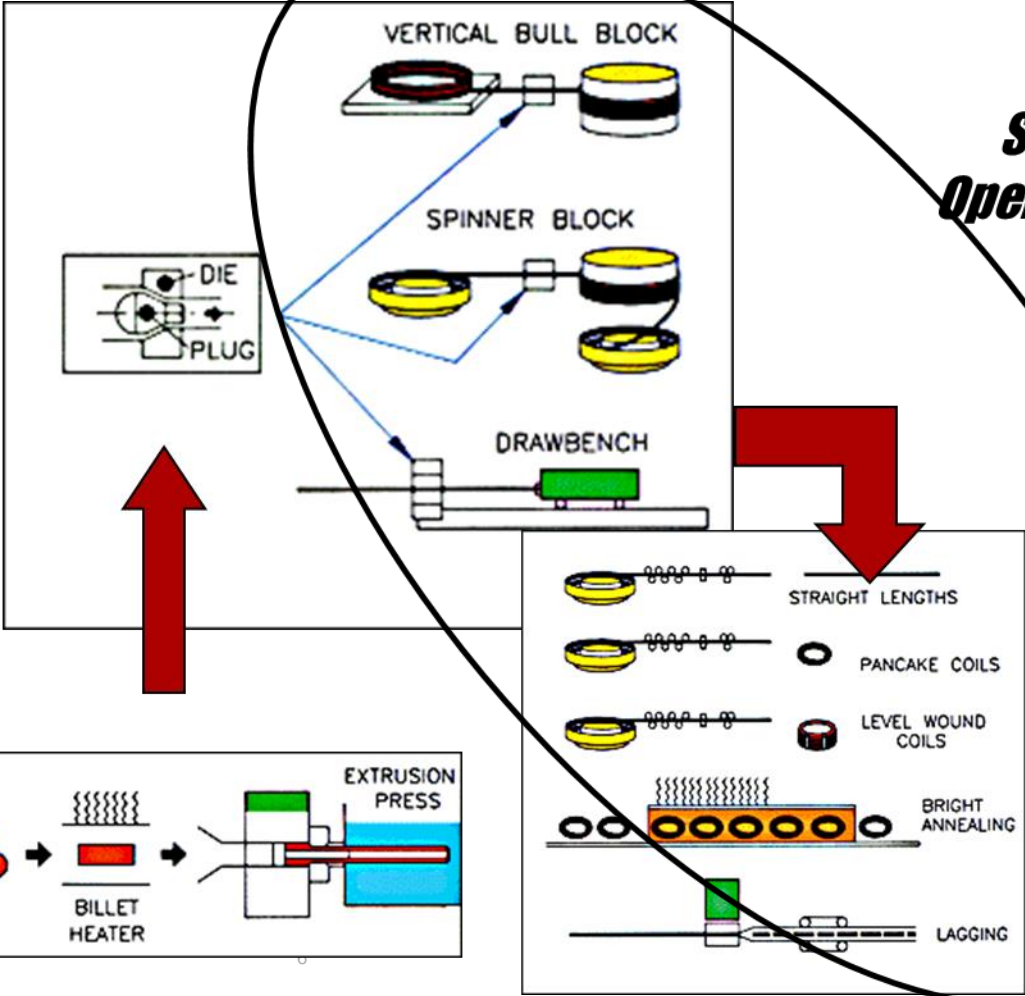
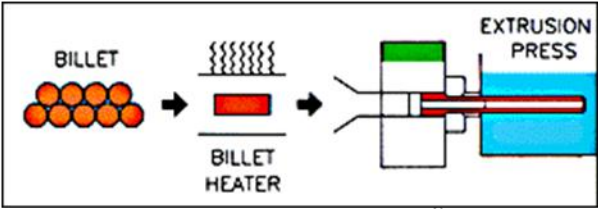
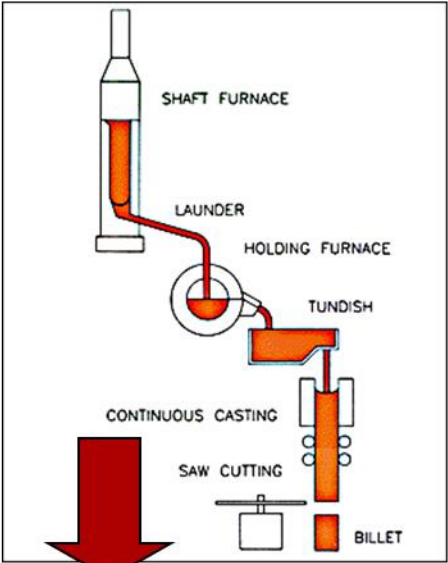
The background features four vertical, teardrop-shaped elements against a black background, representing different states of matter or thermal processes. From left to right: a bright yellow and orange flame, a blue plasma-like glow, a clear liquid droplet with internal reflections and bubbles, and a translucent ice droplet with internal crystalline structures.

# Global organization with functions tailored for your needs



# WSTP's Role in the Supply Chain

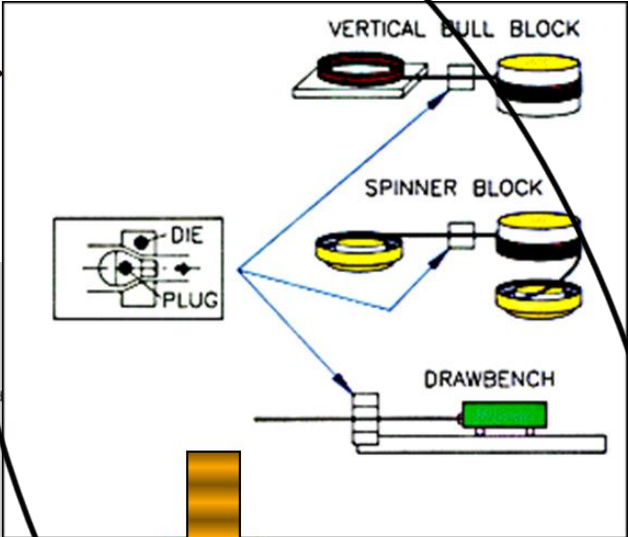
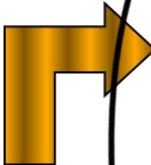
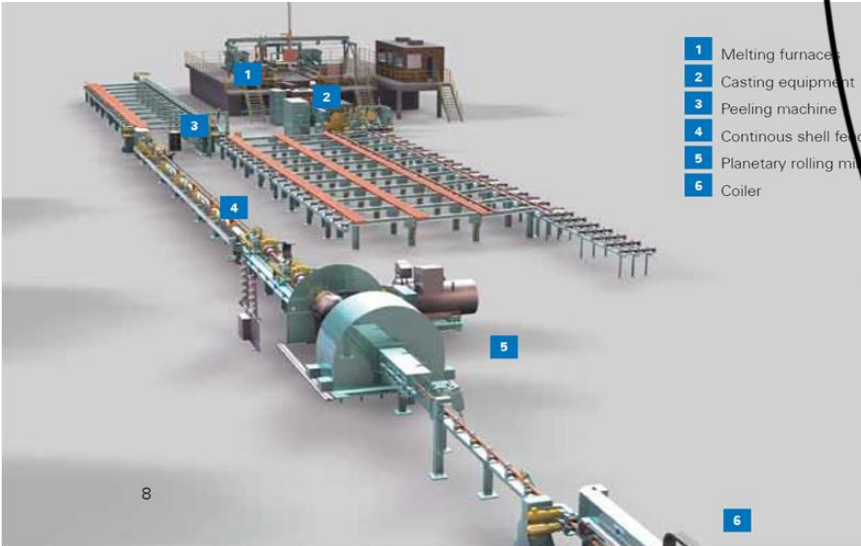
## Cast and Extrusion



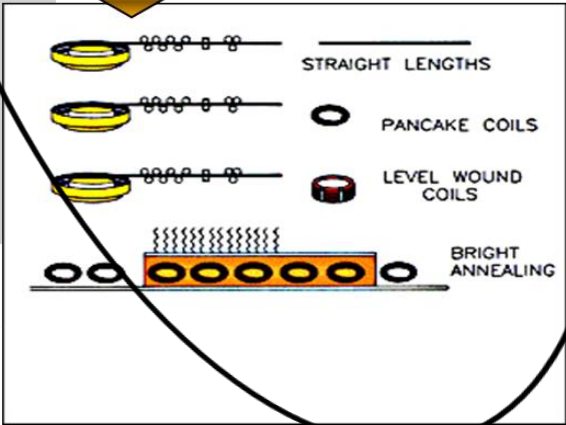
**STP's  
Operations**

# WSTP's Role in the Supply Chain


## Cast and Roll Technology




**STP's  
Operations**




# Our People

 180 employees

 Experienced workforce with 15 years avg service

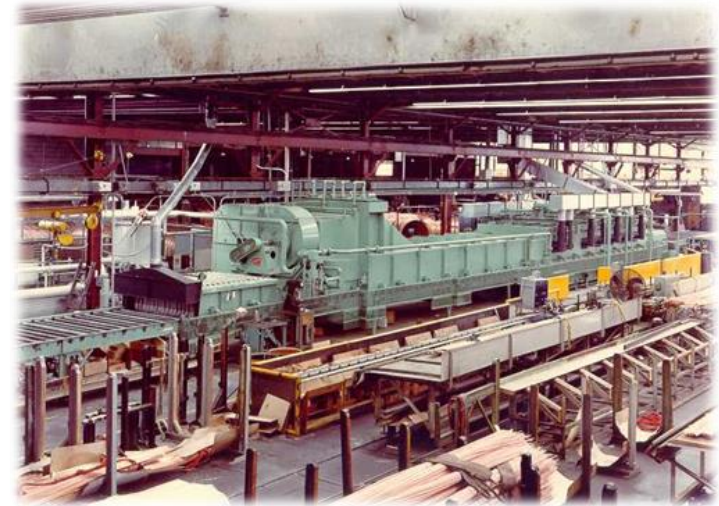
 Dedicated to craftsmanship

 On-Site customer service

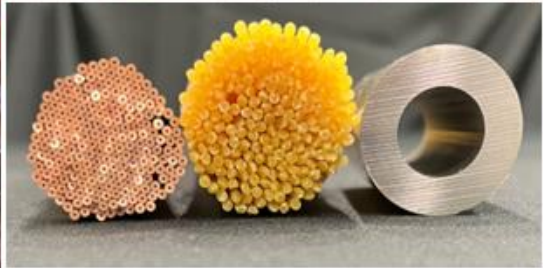


## The WSTP Advantage

- Precision redrawing of metals
- 22 different Cu alloys, 3 different Al alloys
- Die profiling expertise
- Precision straightening
- Shapes (>1,000 architectural combinations)
- Short cut-to-length
- Small lot sizes – 100lb minimum
- ISO 9001 QMS
- ISO 17025 Accredited Lab



# The WSTP Advantage



Diameter Range & Control



Critical Cut Lengths



World Class Straightness



Value Added Fabrication

## Complex Shapes



Hex/  
Round



Duplex



I - Shape

## Alloy Portfolio

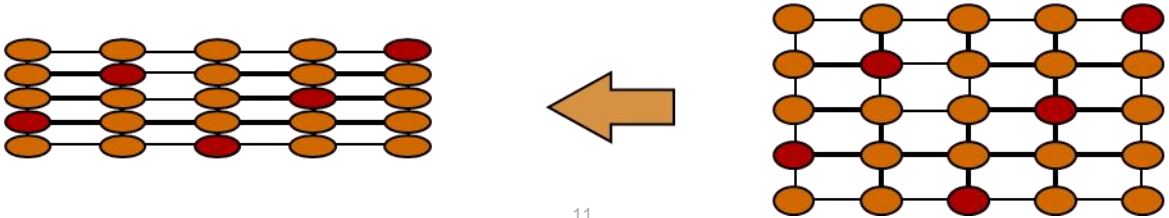
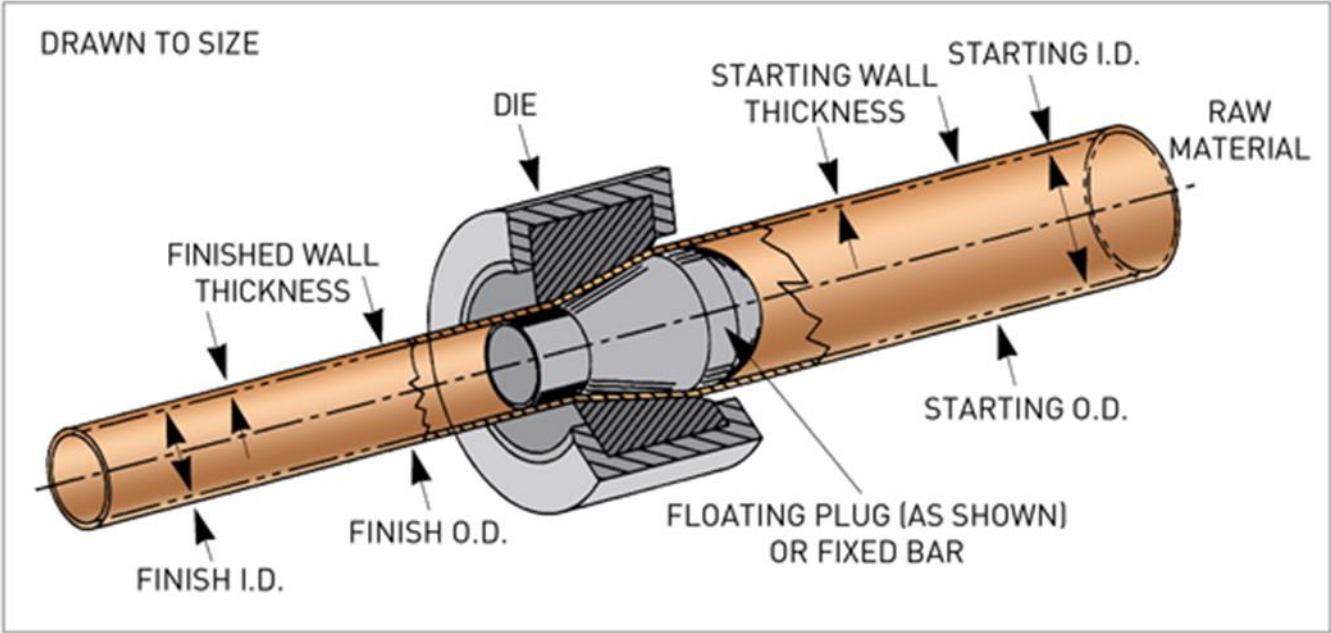
24 Alloys  
= 1-STOP SHOP

## Small Quantities

100# min

# The Essence of Tube Drawing

How *Cold Work* is applied



## In-House Tooling



### The essence of STP's quality tubing:

- Tooling expertise
- In-house maintenance and engineering
- Skilled manufacturing people and processes

### Extensive training program for tool room personnel

### Superior abilities with:

- Die and plug profiling
- Maintenance of Shape Tools
- Saw blade sharpening
- Gage maintenance and design
- Problem Solving for drawing issues
- Tube straightening
- Short cut lengths
- 3-D Printing Technology

19.02.2024

## Large Selection of Alloys

### Coppers

- C10100
- C10200
- C12000
- C12200
- C14200 (special order)
- C19400

### Copper-Nickel

- C70600
- C71000 (special order)
- C71500

### Brasses

- C22000
- C23000
- C26000
- C27000
- C33000
- C33200
- C43500
- C44300
- C68700 (special order)

### Phos Bronze

- C51000
  - C52100
- ### Nickel-Silver
- C74000
  - C75200 (special order)

### Aluminum

- A91100
- A93003
- A96061



Other Alloys may be available upon request

Precision cutting 0.125" to 42 foot lengths

# Diameter Range & Control

## COILS

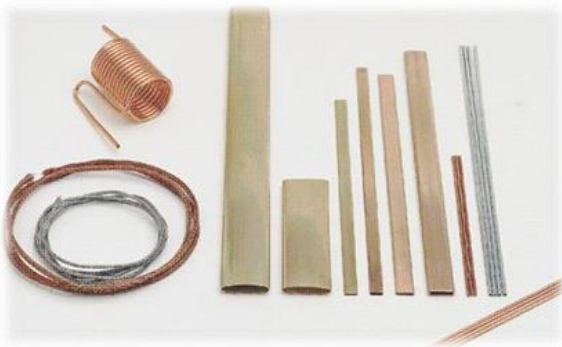
<u>ALLOY</u>	<u>OD</u>
▪ Copper	.040" - .875"
▪ Brass	.040" - .875"
▪ Copper Nickel	.040" - .875"
▪ Aluminum	.040" - .875"

<u>WALL THICKNESS</u>
.005" - .200"
.010" - .065"
.010" - .070"
.012" - .065"

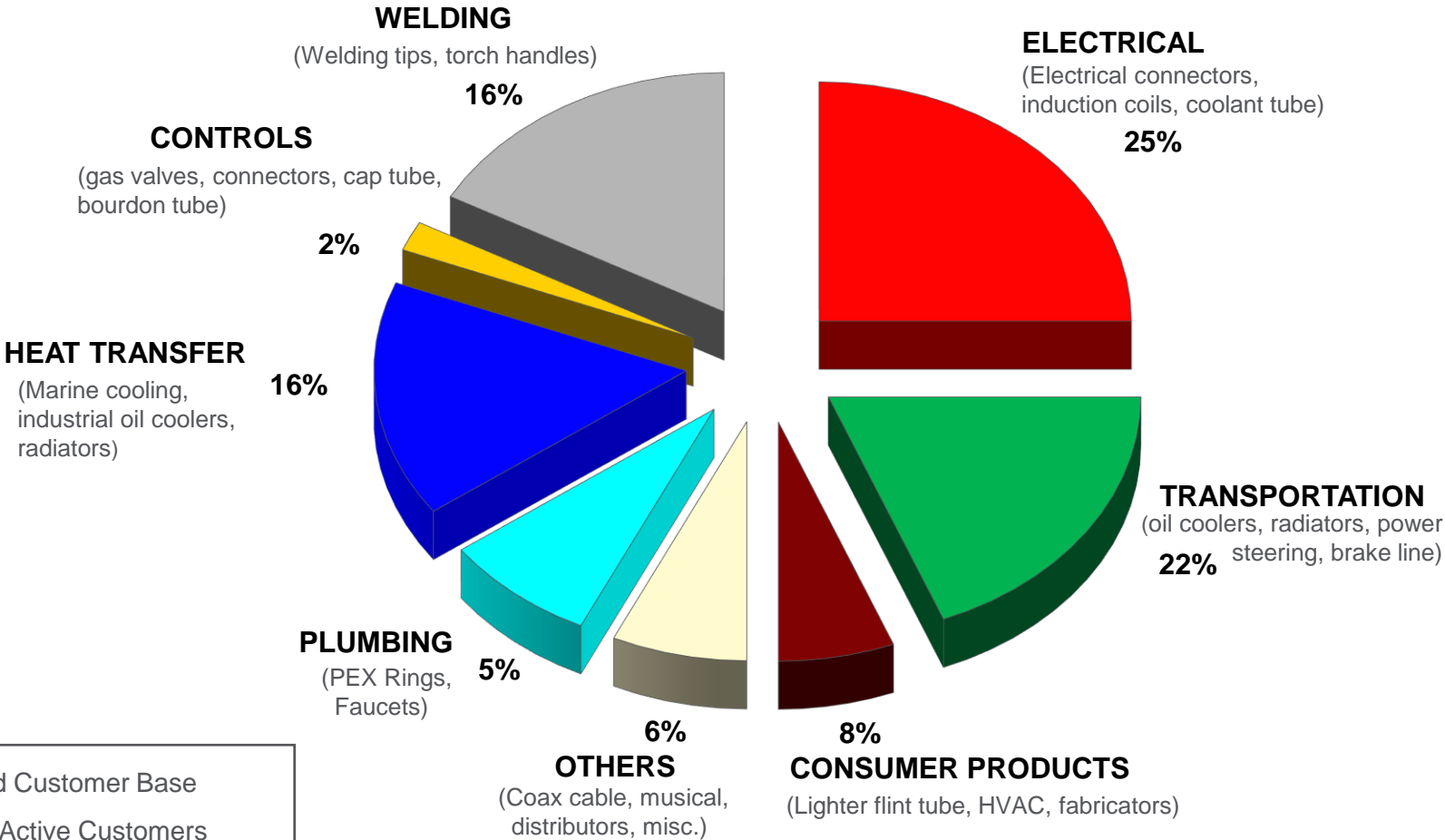
## STRAIGHT LENGTHS

<u>ALLOY</u>	<u>OD</u>
▪ Copper	.040" - 2.625"
▪ Brass	.125" - 2.625"
▪ Copper Nickel	.125" - 2.625"
▪ Lead Brass	.109" - 1.375"
▪ Phos Bronze	.200" - .875"
▪ Aluminum	.040" - 2.000"

<u>WALL THICKNESS</u>
.004" - .367"
.010" - .175"
.010" - .175"
.010" - .200"
.004" - .045"
.012" - .200"



# 2022 Portfolio



- Diversified Customer Base
- Over 900 Active Customers
- Average Order Size ~1,400 Lbs.

# Examples of Shapes

Hourglass/Figure 8



Keyhole



Leak Detector Tube



More than 1,000 different shapes and sizes!

Oval-Shaped, Fluted OD



Square/Round



Square OD and ID

Duplex

Fluted OD/Round ID

Rectangle

# Straight Length Packaging



Bundle Pack Options



Wooden End Cardboard Boxes



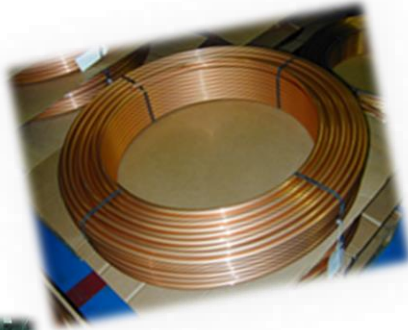
All Cardboard Boxes



All Wood Boxes

## Coil Form Packaging

Bunch or Pancake  
Coils in Octagon-  
shaped cardboard  
box



Smaller diameter bunch or pancake  
coils in square cardboard box



Large Level Wound Coils packed in  
cardboard box or shrink wrapped



# Fabricated Products

Full Portfolio of copper and aluminum alloys  
Focused leadership dedicated to value-add fabrication



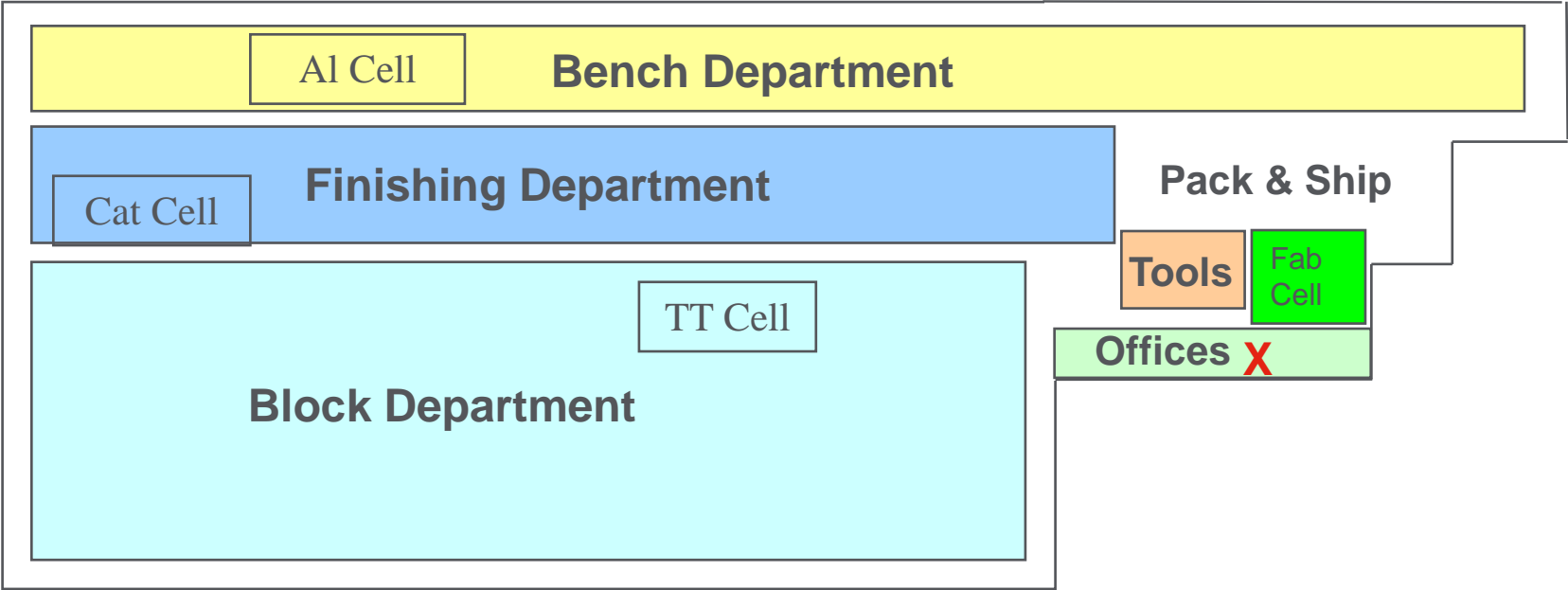
Bending  
Swaging  
Spinning  
Beading

Expanding  
Counterboring  
Incising  
Special coiling

And More...



# Plant Floor Layout



# WSTP Portfolio

