WELCOME TO







SMALL TUBE PRODUCTS

DUNCANSVILLE, PA U.S.A.







Skilled Producers of Brass and Copper Tubing Continuing the Excellence Established in 1947



Contents

- Ownership
- STP's Role in the Supply Chain
- Statistics / Capabilities
- STP Core Competencies
- Served Markets
- Alloys and Tube Sizes
- Tooling
- Markets Served
- Packaging Forms
- Shapes / Fabrication Department
- Plant Layout





Virtus Industries, Inc.

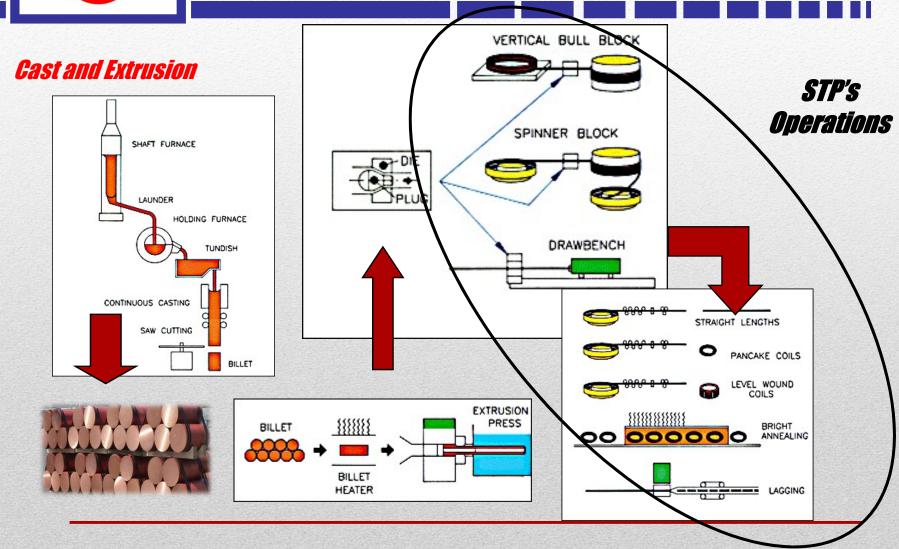
Small Tube Products

- Purchased by Waybill UK LTD in Nov. 2018
- Virtus Industries Inc. new U.S. corporate entity established Oct .2019
- 1 of 5 manufacturing facilities owned by this ownership group
- Of the 5 facilities, STP remains the most diverse manufacturing facility within the group organizations.



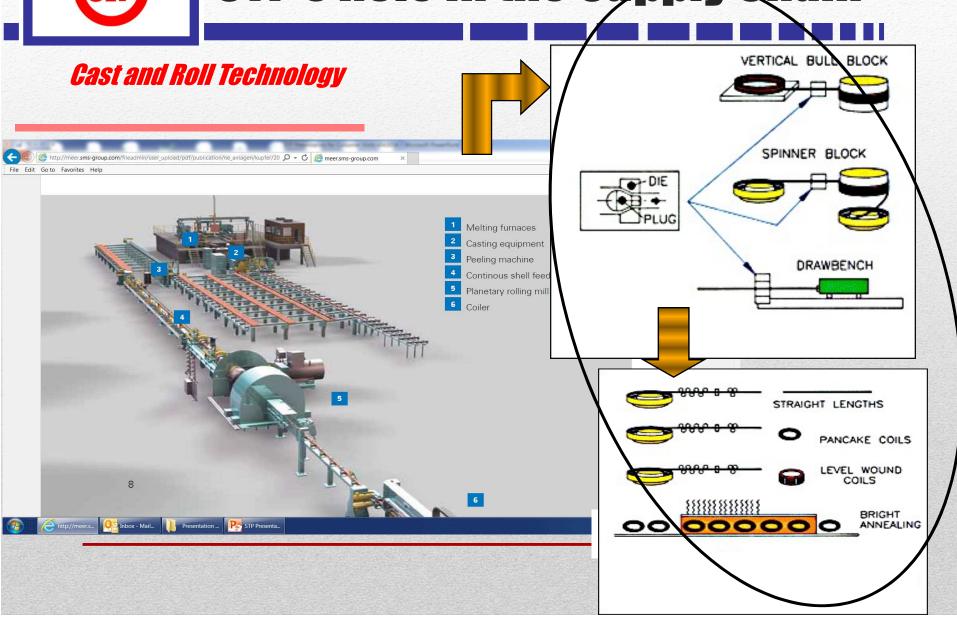


STP's Role in the Supply Chain





STP's Role in the Supply Chain





Plant Data / Capabilities

•Plant Information:

- 170 employees
- 210,000 sq. ft.
- 3 shifts / 5 day weeks

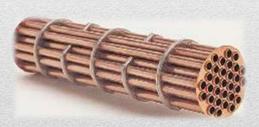
ISO 17025 Accredited Laboratory

- Dimensional
- Mechanical -tensile, yield, elongation, hardness
- Microstructural Analysis grain
- Residual Stress
- Conductivity
- Optical Emission Spectrometry (OES) chemical analysis

On-site Customer Service:

- Servicing customers' needs at the production site
- Gateway for customer to STP's commercial and technical services
- Quotation requirements
- Order Processing / Expediting





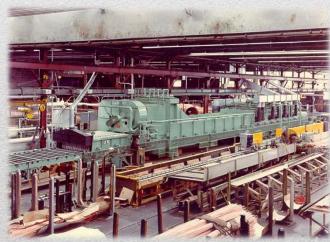


STP Core Competencies

Precision redrawing of metals

- 22 different copper alloys, 2 Aluminum alloys
- Die profiling expertise
- Precision straightening
- •Shapes (>1000 architectural combinations)
- Short Cut-To-Length
- •Small lot sizes 100 lb. minimum
- ISO 9001 registered facility
- •ISO 17025 accredited lab
- Non-union, experienced workforce
 (18 year average tenure)
- Continuous Improvement Culture







Large Selection of Alloys

(listed by UNS Numbers)

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

Aluminum

- A91100
- A93003





Precision cutting -0.125" to 42 foot lengths

Other Alloys may be available upon request



Tube Size Ranges

COILS-

ALLOY	OD	WALL THICKNESS
•Copper	. 040"8 75"	.005"200"
•Brass	.040"875"	.010"065"
•Copper Nickel	.040"875"	.010"070"
•Aluminum	.040"875"	.012"065"

STRAIGHT LENGTHS

ALLOY	<u>OD</u>	WALL THICKNESS
•Copper	.040" - 2.625"	.004"367"
•Brass	.125" - 2.625"	.010"175"
•Copper Nickel	.125" - 2.625"	.010"175"
·Leaded Brass	.109" - 1.375"	.010"200"
Phos Bronze	.200"875"	.004"045"
•Aluminum	.040" - 2.000"	.012"200"









STP In-House Tooling

Largest Die/Plug



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

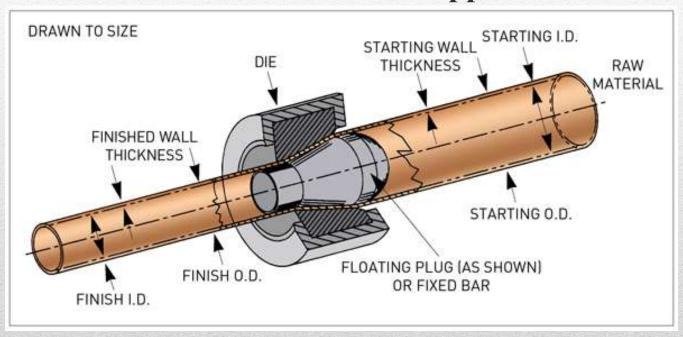
Superior abilities with:

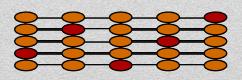
- Die and plug profiling
- Maintenance of Shape Tools
- Saw blade sharpening
- Gage maintenance and design
- Problem Solving for drawing issues
- Tube straightening
- Short cut lengths



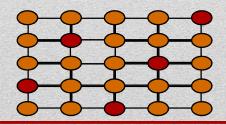
The Essence of Tube Drawing

·How Cold Work is applied



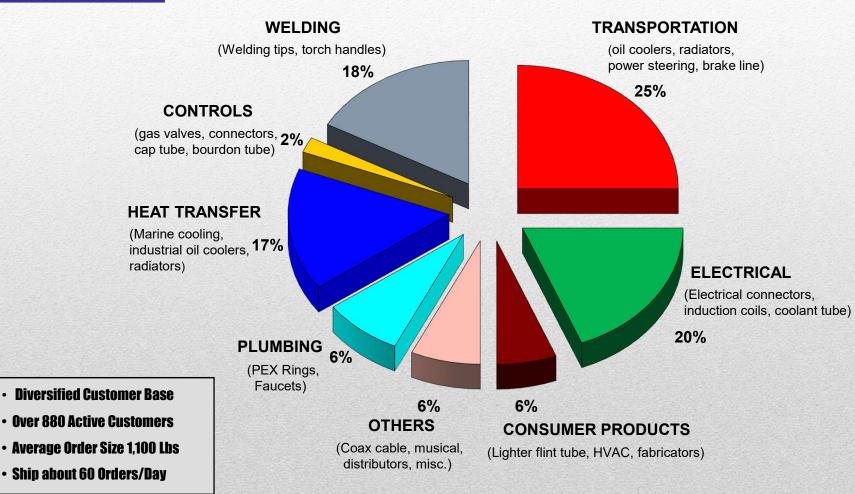








STP Served Markets





Examples of Shapes



D-Shape
B-Shape
Doghouse
Mailbox
I-Shape

Leak Detector Tube



More than 1,000 different shapes and sizes!





Straight Length Packaging





Coil Forms and Packaging

Bunch or Pancake Coils in Octagonshaped cardboard box





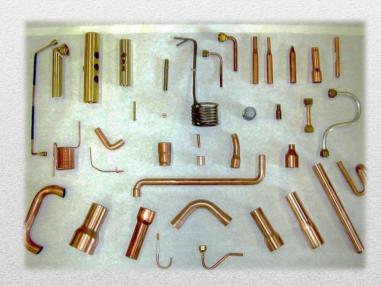






Tube Fabrication

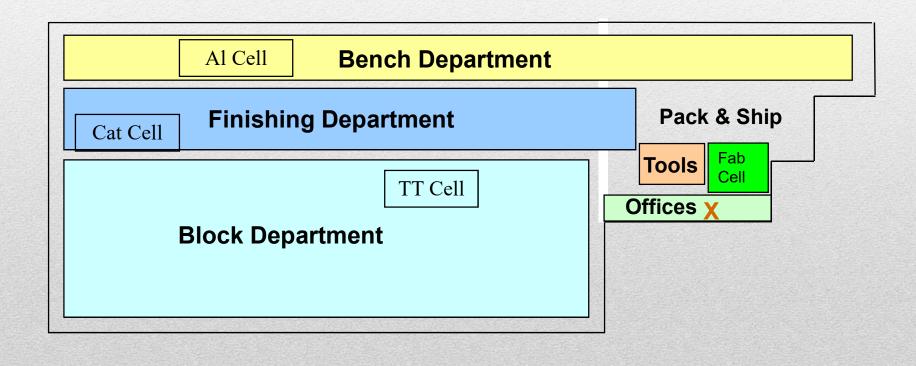
- All Copper Alloys, Brasses, Bronzes, Copper Nickels
- Consult mill for production of similar items.
- Expanding
- Reducing
- Counter Boring
- Beading
- Flaring
- Hole Punching
- Spinning



- Chamfering
- Facing
- Dimpling
- Roll Grooving
- Threading
- Slitting
- Angle Cutting



Plant Floor Layout





Product Display





End of Presentation









