



# Murray Percival

A Percivalized Experience  
Across the Board

*Get connected to a proactive partner  
that will optimize your PCB assembly  
process to its full potential while keeping  
it online and on time.*

Call Percival to...  
- Improve quality  
- Increase my production Rate  
- Save \$  
(800) 405-1730

# Assembly Equipment

Assembly equipment available throughout numerous states in the midwest, supported by our fast and friendly team.



## Selective Soldering



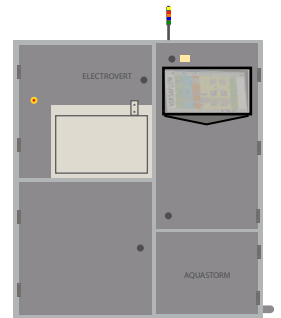
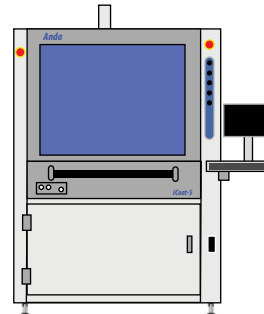
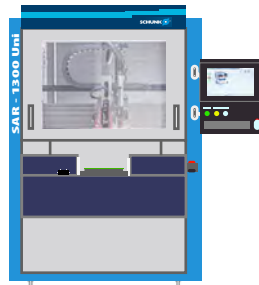
## Board Routing



## Conformal Coating



## Cleaning



## Bare Boards



## Solder



## Printing



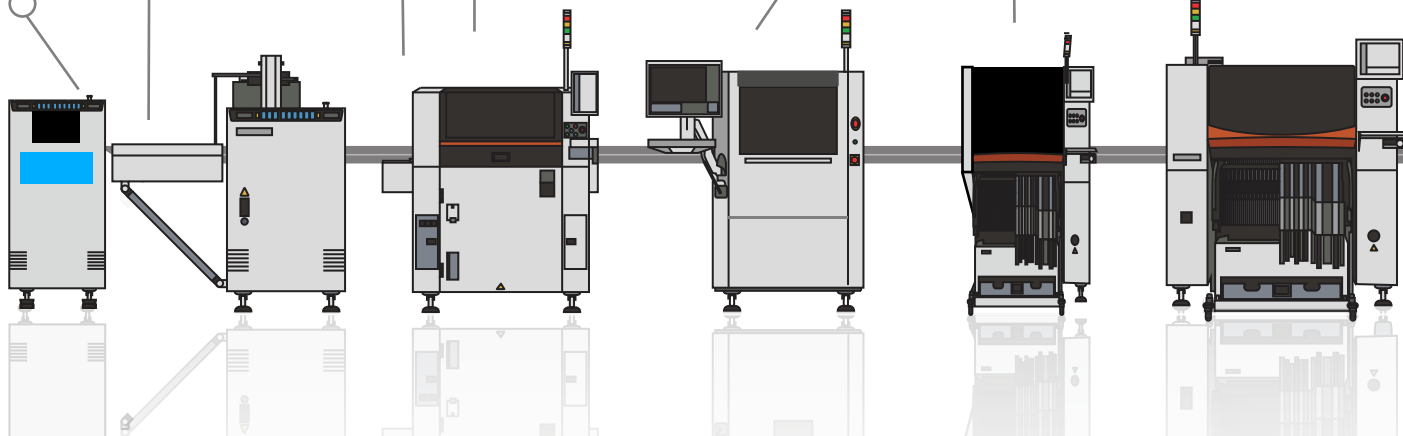
## Dispensing



## Component Placement



## Bare Board Cleaner



# Other Processes

## Robotic Soldering



## Nitrogen Generation



## BGA Rework



## Vapor Phase



## Thermal Profiling



## Component Management



## Processes Control / Traceability



## Wire Processing & Stripping



## X-Ray



## Board Support



## Programming & Testing



## Wave/Reflow Soldering



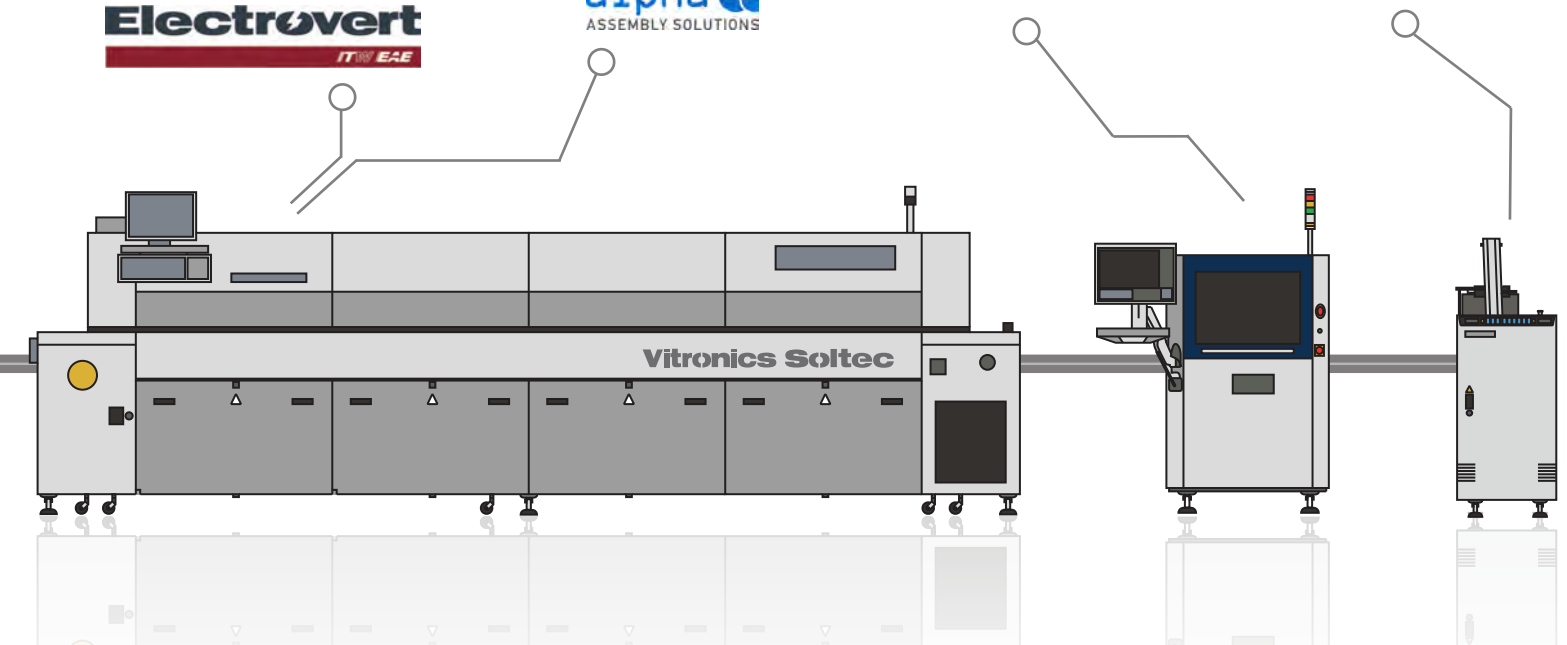
## Fluxing



## SPI/AOI



## PCB Conveying



# Production Supplies

- 

Pneumatic and electric screwdrivers, screw feeders, and torque measuring systems.
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Bar solder, cored wire solder, solder paste, solder preforms, fluxes, cleaners, potting, conformal coating and dross recycling services.
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Soldering solutions including soldering pots, irons and accessories.
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Vacuum sealers and assisted thermal bag sealing systems.
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Tapes and masking boots for industrial manufacturing processes.
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High performance and industrial tools for microscopy, inspection, and precision assembly.
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ESD, laboratory and clean room chairs/stools.
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Bare Printed Circuit Boards including rigid, rigid-flex, flex, and aluminum circuit.
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Polyimide adhesive tapes and films.
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ESD control products including grounding devices, mats, smocks, shielding bags, floor finish, ionizers, monitors and testers.
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Stencil roll wipes, desoldering braid & solder accessories.
- 

Smart ESD process control including monitors, ionization, test & measurement equipment and software.
- 

Cleaners for electronic circuit assemblies and components for both batch and inline cleaning systems.
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Electropneumatic dispensing systems, two-part mixing systems, syringes and needles.
- 

Durable industrial workstations, workbenches, packing tables, lab furniture and seating.
- 

Labeling solutions including blank thermal transfer labels, printers, pre-printed labels, screen-printed overlays, die cut parts and wire making solutions.
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Economical digital and stereo microscope solutions.
- 

Soldering tools - stations, rework, hot air, handpieces irons, cartridges and tips.
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Environmentally responsible cleaning solvents, presaturated wipes, stencil roll wipes and squeegee blades.
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Soldering stations, BGA inspection, solder baths and rework systems.

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Cleaning solutions for all parts of the SMT process including stencil cleaners, reflow cleaners, wave solder finger cleaners, pallet cleaners and more.
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Dispensing pump bottles, ESD brushes, ESD document holders and work station organizers.
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Carts, storage racks, and PCB material handling systems.
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PCB cleaning solutions that are fast, efficient, safe and cost effective during rework, repair and assembly.
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Illuminated magnifiers, microscopes and industrial lighting.
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Production soldering irons, SMT repair systems, solder training and fume extraction equipment.
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Soldering iron tips, sponges, desoldering wick and accessories.
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Static protective storage containers for PCBs and components.
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Fume extraction solutions for numerous processes including; hand soldering, cleaning systems, conformal coating, reflow ovens, wave and selective soldering, adhesive applications and laser marking.
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Plastic storage containers as well as bin and wire shelving systems.
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Precision dispensing equipment including robots, valves, dispensers, tips, syringes and more.
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RTV Silicone based materials for gluing, sealing, potting and conformal coating.
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Universal splicing products and equipment including, covertape leader tape extenders, double splice tape, carrier tapes, bulk splicing shims, splice tools and more.
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Static control garments including lab coats, smocks, polos and aprons.
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Cleaners, coatings & other chemicals and tools that improve efficiency, safety and performance in PCB assembly.
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Products that detect, protect, eliminate and monitor electrostatic charges.
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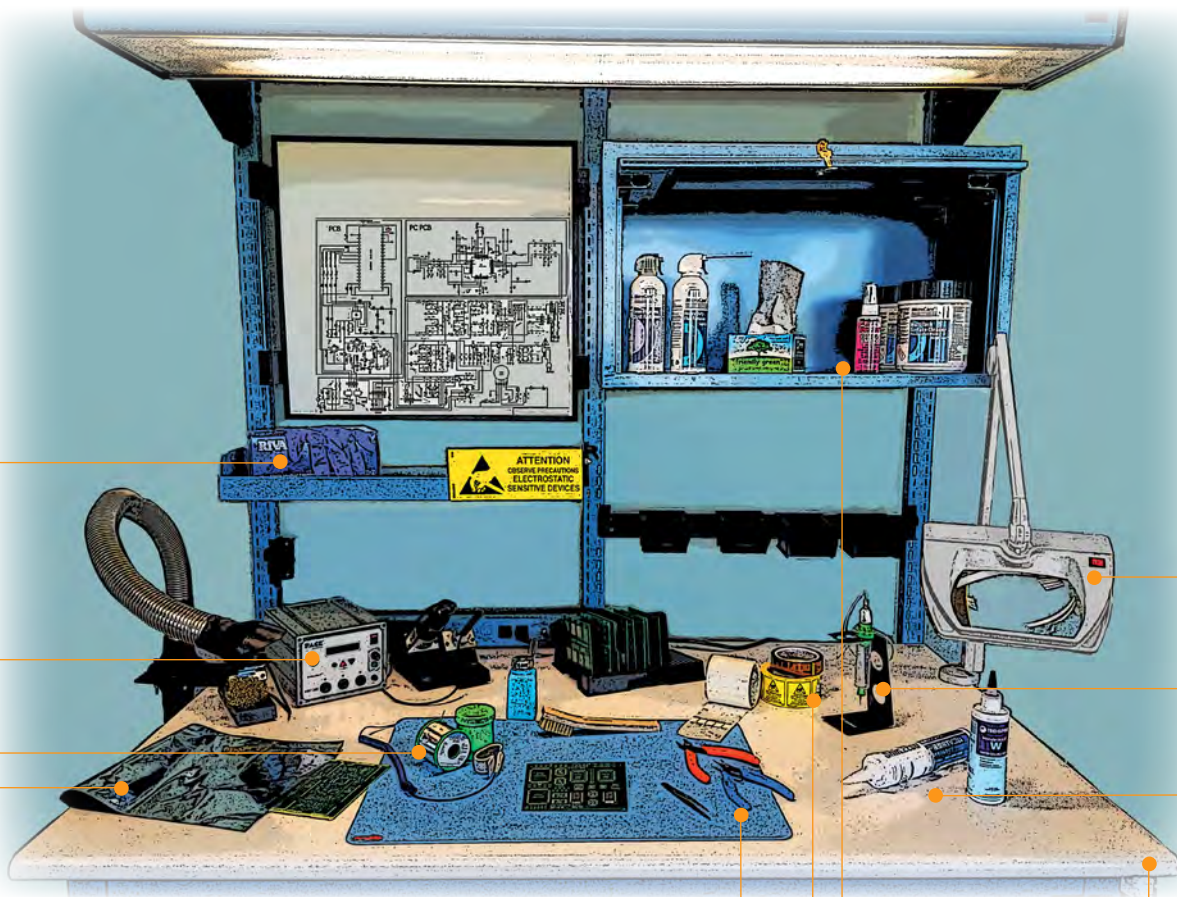
Precision, U.S. made, high performance cutting tools and pliers for electronics and wire harness manufacturing.
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Cleanroom supplies including; gloves, wipers, apparel (lab coats, coveralls, shoe covers, face masks), adhesive mats and documentation.
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Anaerobics, cyanoacrylates, epoxies, urethane and ultra-violet adhesive technologies.
- 

Unique ergonomic stereo microscopes and non-contact measuring systems utilizing eyepiece-less optical technology.

When it comes to MRO materials the Murray Percival Co. is your one stop shop. See below to view our production materials



#### ESD control

Wrist straps, heel grounders, testing equipment, smocks, bags, mats, hand lotion

#### Solder Materials

Bar solder, solder paste, wire solder, preforms, flux & flux paste, wave soldering aids

#### Solder Equipment

Soldering & desoldering systems, tips, fume extraction, handpieces, desoldering braid

#### Clean Room & Safety

Gloves, face masks, smocks, adhesive floor mats, footwear protection, lab coats

#### Tools

Cutters, tweezers, pliers, bits, drivers, torque testers, heat guns, wrenches

#### Labels, Tapes & Masking

Blank labels, preprinted labels, ribbons, tapes, dispenser & printers, custom label solutions

#### Cleaning Supplies

Flux cleaners, degreasers, wipes & swabs, stencil cleaners, brushes, aerosols

#### Material Handling

Bins & storage, shelving, carts & racks, component handling

#### Adhesives & Coatings

Conformal coatings, bonding & potting, gasketing, lubricants & sealants, thread lockers, thermal management

#### Dispensing

Robots, needles & nozzles, syringes & cartridges, manual & pneumatic dispensing, valves

#### Visual Inspection

Magnifiers, lighting & illuminations, microscopes, video inspection



# Who are we?

We are the Murray Percival Company; we are a third generation family owned business that was founded in 1960 by Murray Percival Sr. This company was built off the core business principles of honesty, integrity, loyalty and just plain doing what's right.



## We make a difference by living our core values

- **Rooted in Loyalty** - Our reputation, dedication and long history of serving our customers, vendors and industry remains deeply rooted by our loyalty and dedication towards making the difference and always doing the right thing, regardless of the outcome.
- **Driven to Believe** - We welcome adversity and are faithfully driven by the belief that working with and through others, we can conquer and solve most anything
- **Connected Through Hard Work** - Our team is deeply connected through passion and hard work

When you choose the Murray Percival Co., you benefit from a proven technical sales force to answer your questions and offer solutions; and most importantly, a partner with over 60 years of experience to save you time, reduce your costs and improve your processes.

[www.murraypercival.com](http://www.murraypercival.com)

[www.mp-weknowhow.com](http://www.mp-weknowhow.com)

## Meet Our Inside Team



Murray Jr.



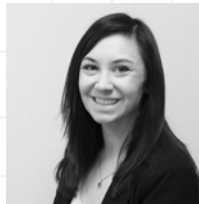
Mark Sr.



Mark Jr.



Laura



Becky

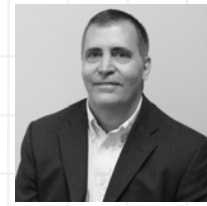


Mike

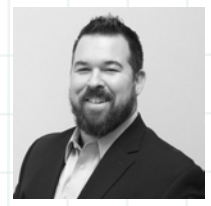
## Meet Our Outside Team



Matt



Dave



Murray III



Rayne



Bruce



Josh



*We're Responsive with Definitive Answers*



*We Take Personal Responsibility*



*Authentic Team Support*