

ARC Welding Systems

$$Ceq = C + Mn/20 + Si/30 + Cr/20 + Mo/15 + 2P + 4S$$

Projection Welders

Service Worldwide

Seam Welders

Laser Welding

Ladle Cars

Coil Joining

Work Handling

Induction Heating

**Taylor
Winfield**

Technologies, Inc.

Automation

Custom Engineered Solutions

Walking Beams

Melt Shop

**Metal Joining and
Handling Equipment**

Spot Welders

$$Ceq = C + (Mn + Cu + Cr)/20 + Si/30 + Ni/60 + Mo/15 + V/10 + (5 \cdot B)$$

COIL JOINING • MELT SHOP • INDUCTION HEATING • HOT & COLD MILL EQUIPMENT • ARC WELDING SYSTEMS

METAL JOINING & HANDLING SOLUTIONS

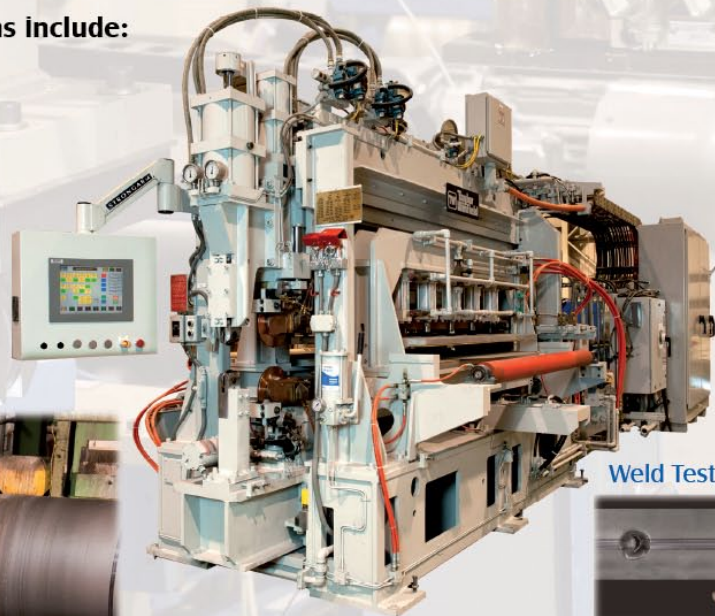


Taylor-Winfield's "Team of Experts" includes product management teams working in collaboration with our mechanical, electrical, control and software engineers to bring comprehensive solutions to our customers' metal joining and material handling equipment needs. Our multi-functional teams have experience in application review, material analysis, process concept and development, machine design, engineering and manufacturing.

Whether providing a standard machine or designing and engineering either a single machine solution or complex fully-integrated multifunctional system, T-W combines diverse technologies to solve the most complex manufacturing problems.

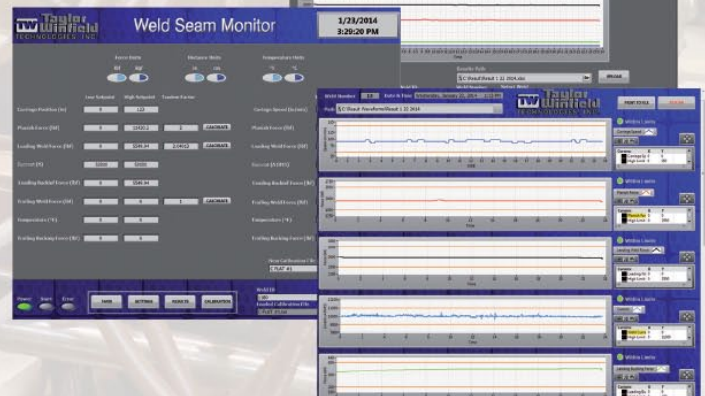
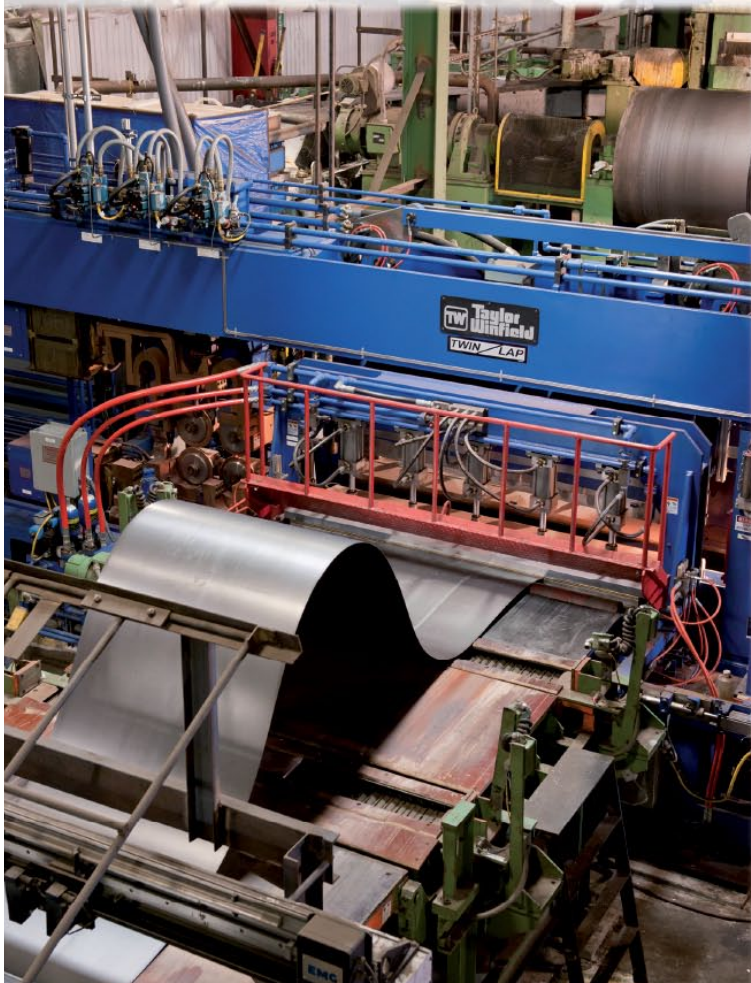
T-W's Material Joining and Handling Solutions include:

- COIL JOINING – ARC, FLASH, LASER, SEAM, AND SPOT WELDING SYSTEMS
- BILLET & STRUCTURAL MILL EQUIPMENT
- COIL HANDLING
- MELT SHOP EQUIPMENT
- ROLL SHOP EQUIPMENT
- PLATE HANDLING
- DESIGN IMPROVEMENTS
- WORLDWIDE FIELD SERVICE



Weld Test Sample

T-W's coil joining welders and material handling systems perform in processing lines throughout the world. Building on over a century of capital equipment manufacturing; our machines include advanced control systems and process monitoring feedback features that link to SPC/SQC systems, enabling our machines to meet the demands of the world's most modern processing lines.



COIL JOINING

T-W has been a worldwide leader in the supply of coil joining welders since the beginning of the steel industry. Our coil joining welders include the most advanced process control and data gathering systems required by the most sophisticated process lines built throughout the world.

T-W's patented TwinLap welder is the most technically advanced narrow lap seam welder available. The TwinLap is capable of joining full-hard and complex phase materials including Silicon, HSLA, IF and today's "Automotive Grade" Advanced High Strength Steels (Dual Phase, TRIP and high Boron) with a single pass of the welding process, near "0" joint over-thickness and fast machine cycle times.

T-W has the solution to your coil joining needs and more. Choose from our complete line of welding machines, many of which are customized for unique customer requirements.

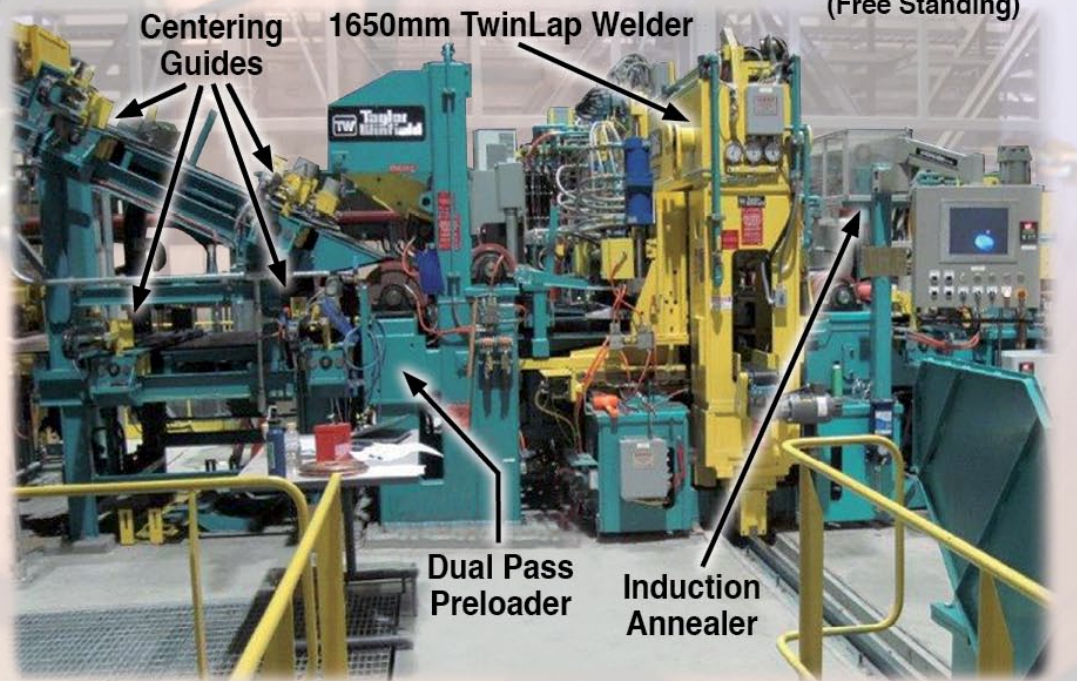
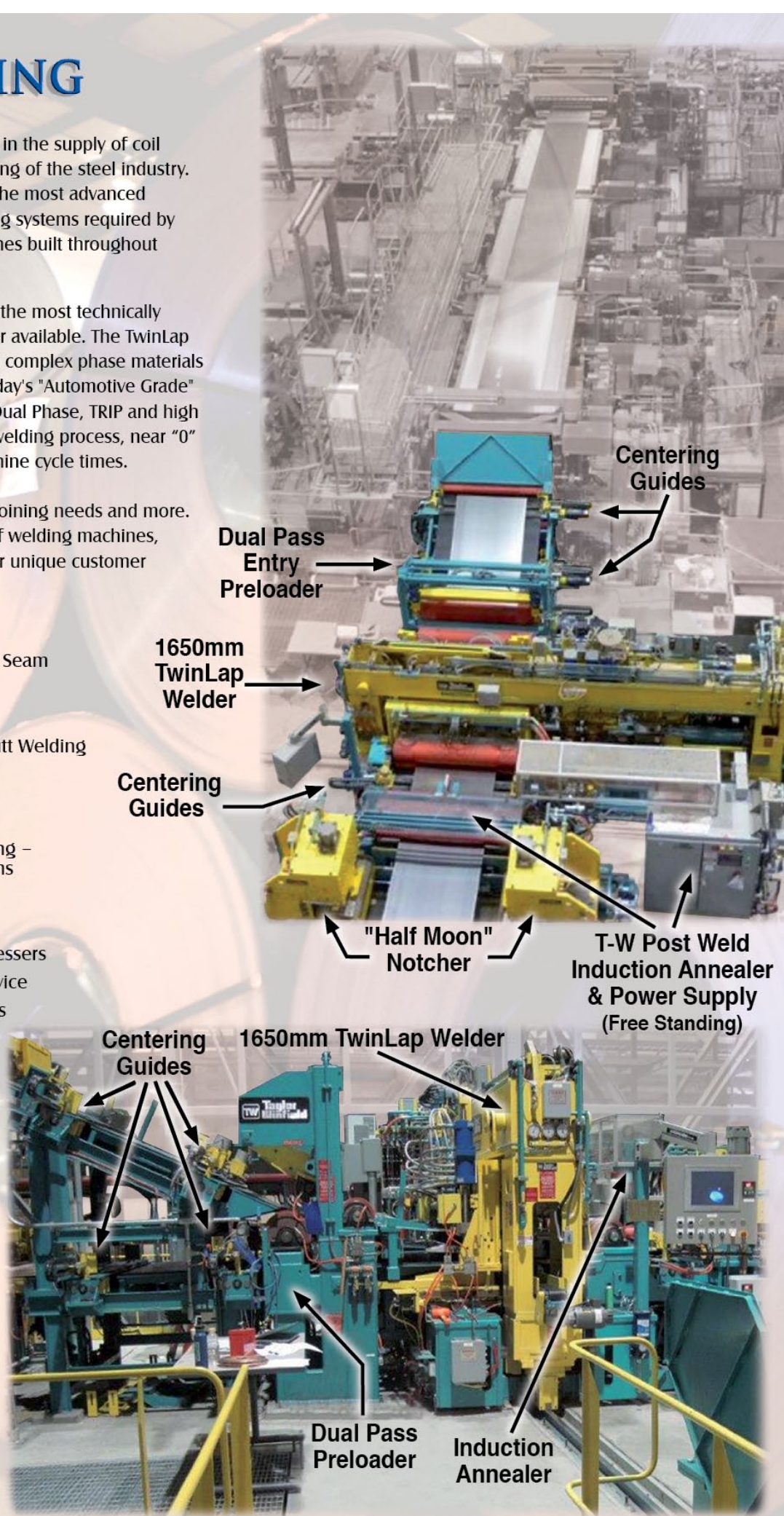
- ✓ Flash Butt Welders
- ✓ Narrow Lap Resistance Mash Seam
- ✓ Laser-Seam or Spot Welding
- ✓ Multi-Gun Spot
- ✓ ARC - Continuous Seam or Butt Welding
- ✓ Others

Machine upgrades include:

- ✓ Post Weld Induction Annealing – Inline & Free-Standing Systems
- ✓ Weld Seam Monitoring
- ✓ Welder Control Systems
- ✓ Weld Testers/Weld Wheel Dressers
- ✓ Machine Reconditioning Service
- ✓ Punching/Notching Machines
- ✓ Cross-Cut Flash Trimmers



Above: Flash Butt Welder
At Right: TwinLap Welder -
AHSS Processing Line



MATERIAL HANDLING SOLUTIONS FOR HEAVY INDUSTRIES WORLDWIDE

- Structural
- Coil Handling
- Melt Shop - ladle cars, degassers & more
- Roll Shop - dechockers, roll transfer cars & more
- Plate Handling
- Hot & Cold Mill
- Design Improvements
- Reverse Engineering



Product Line Focus

T-W's material handling product line designs and manufactures robust equipment for ferrous and non-ferrous material handling. Our engineers use state-of-the-art Finite Element Analysis (FEA) and 3-D design/modeling software to create high quality solutions.

Working together as a "Preferred Supplier," our customers rely on us for:

- Design and build of new equipment
- Modernization of existing material handling systems for improved operation
- Reverse engineering of existing equipment and parts for new supply
- Upgrades to existing machines
- Rebuilding services for existing machines
- Specialty equipment for unique applications & needs

Our skilled craftsmen assemble, wire and test new and rebuilt equipment in our modern manufacturing plant located in Youngstown, Ohio.



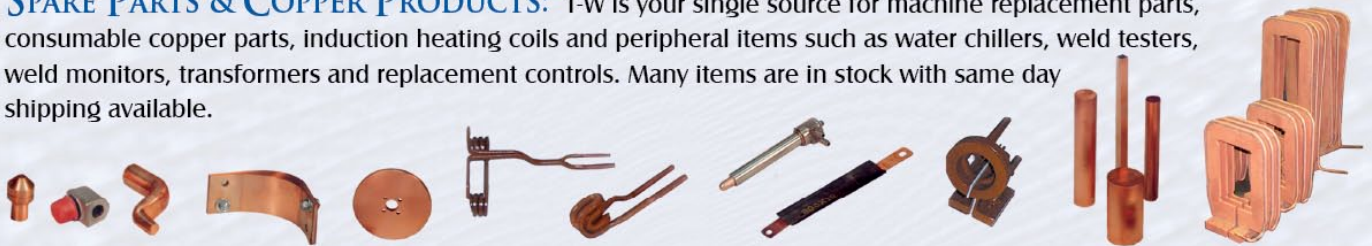
OTHER CAPABILITIES

RESEARCH & DEVELOPMENT LABORATORY: Equipped with state-of-the-art resistance, arc, plasma, laser and robotic welding systems, as well as induction heating power supplies and testing/qualifying equipment, our experienced staff of professionals are dedicated to achieving your production goals.

MACHINE UPGRADES & REBUILDS: T-W will evaluate machine operations and recommend upgrades to improve performance. Our comprehensive machine rebuild services bring existing machines back to like-new condition.

WORLDWIDE FIELD SERVICE & SUPPORT: Our qualified technicians have mechanical, electrical, and programming skills that enable them to supervise and/or perform on-site machine evaluations, repairs and upgrades.

SPARE PARTS & COPPER PRODUCTS: T-W is your single source for machine replacement parts, consumable copper parts, induction heating coils and peripheral items such as water chillers, weld testers, weld monitors, transformers and replacement controls. Many items are in stock with same day shipping available.



Taylor Winfield
Technologies, Inc.

COIL JOINING • MELT SHOP • INDUCTION HEATING • HOT & COLD MILL EQUIPMENT • ARC WELDING SYSTEMS

Mill Process Equipment

Coil Joining

Spot Welders

Innovator of World-Class Metal Joining & Handling Equipment

Walking Beams



Since 1882, the Taylor-Winfield name has been found on production machines and processing lines in manufacturing facilities throughout the world. We are dedicated to bringing advanced manufacturing technologies and processes that enable our customers to compete in today's ever changing markets.

You can count on T-W for experience, quality craftsmanship and innovative engineered solutions to metal joining and handling needs. By providing simple to complex solutions with ongoing field service and replacement parts support, Taylor-Winfield remains the company customers can trust into the future.

For more information call or e-mail us today!

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**Taylor
Winfield**

Technologies, Inc.

"Our Customer's Success is Our Success"

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RESISTANCE WELDING • BAR & PIPE MILL • ARC WELDING SYSTEMS • COIL HANDLING SYSTEMS • ROLL TABLES