

RESULTS-DRIVEN CONSTRUCTION SOLUTIONS

Maximize productivity. Optimize weld quality. Improve your bottom line.



SOLUTIONS DESIGNED FOR STRUCTURAL AND PIPE WELDING IN THE SHOP OR FIELD

Whatever and wherever you build, there are Miller, Hobart and Bernard solutions specifically developed to support you — so you can effectively manage your labor pool, achieve productivity goals, maintain quality and reduce expenses.

Structural welding

In the shop, the ability to handle a wide variety of ever-changing projects — and quickly adapt to new ones — is key to success. In the field, each jobsite has unique challenges that require versatile equipment and materials to get work done on time, under budget and according to spec. In either environment, you'll do the best work with equipment and solutions created with your success in mind.

Pipe welding

Fabricating pipe requires the flexibility to work with multiple material types and thicknesses while always producing excellent results. In the field, successfully making critical pipe welds that pass rigorous codes is a make-or-break situation where cost overruns must be avoided. Anywhere you weld pipe, versatility and consistent performance are essential.

You win the jobs. We provide the solutions to get them done.





INDUCTION HEATING

Fast, consistent heating

Traditional weld heating methods have numerous drawbacks. Open-flame heating carries significant fuel expenses, delivers inconsistent results and poses safety risks. Resistance heating requires long setup/teardown times with high maintenance costs. Trade in your torches to improve weld quality and your bottom line with Miller® induction heating.

Miller® ProHeat™ 35

This flexible induction heating system delivers more consistent results and improves safety while maximizing the productivity you need. It's available in three different configurations:

① Liquid-cooled cables

Ideal for applications that have higher-temperature requirements or complex geometries that favor flexible cable heaters over air-cooled blankets. These versatile cables can be used for preheating, post-weld heat treatment and hydrogen bake-out.

② Rolling induction system

A simple, cost-effective heating solution that delivers fast and consistent heat for pipe, plate and pressure vessel fabricators, as well as automated gantry or robotic systems. The rolling inductor quickly delivers up to 600 degrees Fahrenheit for preheat applications on moving parts, so welders can be more productive.

③ Air-cooled blankets and cables

Uniformly preheat pipe and plate up to 400 degrees Fahrenheit. Blankets apply easily and are available in a wide variety of diameters and lengths to fit most applications; rugged material withstands tough conditions in industrial and construction settings. Flexible cables are a more adaptable option for odd geometries or applications that favor them over liquid-cooled systems.



ArcReach® Heater

Save both time and money by placing your heating source close to the job. This portable air-cooled heating system is an accessory for select ArcReach welding power sources. It's ideal for preheat and bake-out applications up to 600 degrees Fahrenheit. Increase jobsite productivity and efficiency by eliminating time spent walking back and forth to the power source for adjustments.

① Powered by on-site welding power sources

ArcReach Heater uses the same equipment used for welding, so there's no need for additional resources. Utilizes standard weld cables for power and eliminates the requirement for expensive power drops.

② Integrated temperature recording

Automatically and accurately records joint temperature every time a heating cycle is completed. The ArcReach Heater Data Application turns those records into clear, time-stamped temperature charts for review and QA/QC.

For induction-heating inquiries:

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SUBMERGED ARC WELDING

Get the productivity and deposition rates you need for every submerged arc welding project with Miller® welding equipment and Hobart® submerged arc welding wires and fluxes.

Miller® SubArc Digital Series welders and accessories

Miller SubArc Digital Series equipment integrates quickly and easily, supporting advanced weld processes that can maximize productivity and help ensure proper weld deposition.

Miller® SubArc Digital Series welders

Offering both DC and AC/DC capabilities, SubArc Digital Series welders can handle submerged arc and electroslag (ESW) welding applications, from traditional DC single-arc to multi-wire tandem welding. In the case of ESW welding or other high-current demand, two or more power sources can easily be paralleled.

SubArc digital portable welding system

This self-contained system includes the power source, column and boom on a mobile platform, providing a compact, turnkey submerged arc welding solution that's ideal for welding pressure vessels and pipes.

SubArc 3-Wheel Tractor

Its compact size makes it easy to configure, allowing greater flexibility and additional SAW setup options. In addition, a new all-in-one interface lets welders control the tractor as well as the welding functions from the same panel, for improved ease of use.

SubArc Hercules™ system

This unique submerged arc welding solution delivers outstanding improvements to deposition rates and travel speed with a combination of filler metal, torch and power source. On average, SubArc Hercules provides a 30% or higher deposition rate improvement from previous state-of-the-art welding processes.

Hobart® SubCOR™ wires

Cored wire requires greater wire feed speed to achieve given amperage when compared to a solid wire of the same diameter and welding contact-tip-to-work distance. As a result, cored wires can offer increased deposition rates without significantly changing amperage and voltage. When the deposition rate is increased, it's often possible to use higher travel speeds than with solid wires and still maintain a given weld size.

This presents an opportunity for improved productivity by speeding up the process and reducing the time it takes to complete a weld. Since labor is the largest cost of any welding operation, even a small reduction in cycle time can provide a huge cost savings in the long run — without sacrificing weld quality.

Hobart® fluxes

Available in active and neutral formulations, Hobart fluxes are available to meet a wide variety of submerged arc welding needs. Hobart SWX flux packaging is resistant to breaking and doesn't allow the flux to pick up moisture.

- 1 Active fluxes**
Ideal for single- or two-pass welds and often have a more easily removed slag. They are also more tolerant of rust and mill scale.
- 2 Neutral fluxes**
Preferred for welding on heavy, thick sections of materials that require multiple passes.





STRUCTURAL WELDING SHOP WORK

To meet tight timelines and deliver quality products, a shop must work precisely and efficiently. Achieving these targets requires power sources designed for big output and versatility, filler metals that optimize weld quality and equipment that can handle demanding conditions.

Miller® welders, Hobart® wire and Bernard® MIG guns deliver just that — the consistent, reliable performance you need to help your shop succeed.

XMT® 650 ArcReach® systems

Productivity, power and savings are all brought to the next level with the XMT 650. Give the operator complete control from hundreds of feet away without the control cable.

① Eliminates long cable runs

No need for control cables, which can be easily damaged and costly to repair or replace. With features like Cable Length Compensation (CLC™), eliminate any guesswork associated with voltage drop in long cable runs.

② Polarity selection

This optional feature lets you choose electrode-positive or electrode-negative self-shielded wire right at the wire feeder.

③ Easy process switching

When paired with an ArcReach 16 or an ArcReach stick TIG remote, you can switch between welding and gouging with the push of a button. No need to swap leads or make trips to the power source.

④ ArcReach® 16 shop cart

This preassembled shop cart model gives easy mobility around the shop, thanks to its low clearance and wide handles, which double as a convenient cable holder.



XMT® 400 multiprocess welder

The new XMT 400 multiprocess welder is built for performance and versatility. With Intellx™ wire feeder compatibility, advanced process capabilities and maximized productivity, this powerhouse keeps indoor crews efficient, flexible and in the zone all day.

① Scalable solutions

The XMT 400 is compatible with any Intellx wire feeder, meaning it can adapt to your needs with ease. The Intellx Pro enables Accu-Pulse®, while the Intellx Elite unlocks a full suite of advanced processes. Learn more at MillerWelds.com/AdvancedProcesses.

② Multiprocess

This all-in-one power source can help simplify your fleet by delivering MIG, TIG, stick and gouging capabilities in a single unit.

③ Easy to use

A familiar, user-friendly interface allows operators of all skill levels to quickly set up and switch between processes — allowing them to get right to the task at hand.

④ Increased duty cycle

Weld longer by minimizing downtime with an enhanced duty cycle of 400 amps at 60% duty cycle.

Metal-cored wires

Metal-cored wires offer higher deposition rates than solid wires with no increase in heat input, leading to increased productivity and reduced distortion.

Hobart® FabCOR® Elevate™

A high-productivity filler metal for automated and handheld welding with superior weldability and ease of use. It offers excellent mechanical properties at high deposition rates while reducing the need for post-weld cleanup and repair.

Gas-shielded flux-cored

Hobart® FabCO® Excel-Arc™ 71

This all-position wire is a great choice for mild steel applications often found in shop welding, either in single- or multiple-pass applications.

Hobart® FabCO® TR-70

Low smoke and spatter with excellent operator appeal for mild and low alloy steels.

Bernard® BTB semi-automatic air-cooled MIG guns

BTB means “Best of the Best”: MIG guns that use the best handles, necks, liners and cables for comfortable, smooth, reliable operation that can handle hard use and tough conditions. Combine with AccuLock™ consumables for fewer tip changes and less troubleshooting. Designed to solve problems, maximize productivity and improve your bottom line, these industrial-duty guns include an industry-leading one-year manufacturer’s warranty.





STRUCTURAL WELDING FIELD WORK

Welding in the field presents many challenges that can decrease productivity and limit your ability to get quality work done on schedule and within budget — from excessive walks to the power source and time-consuming rework to unreliable MIG guns and the high cost of fuel to operate engine-driven welders. Count on Miller, Hobart and Bernard to deliver the flexible solutions you need for high-quality, profitable, safer field work.

Miller® Trailblazer® and Big Blue® engine-driven welders with ArcReach® technology

These powerful engine-driven welders are ideal for multiprocess field structural welding — whether you have a need for the smaller, lighter-weight Trailblazer or quieter and fuel-efficient Big Blue.

Trailblazer® 330 Gas/Diesel/Air Pak™

These engine-driven welders deliver an unbeatable arc performance — the smoothest and most stable in the industry. Trailblazer-exclusive technologies like advanced Auto-Speed™ and optional Excel™ power deliver superior runtimes, increase fuel efficiency and improve engine-driven welder performance. You'll have productive, profitable, quieter jobsites because no other compact machine in the 300-amp class delivers more welding power or more auxiliary power with better fuel efficiency and less noise.

Big Blue® 400/500 Pro

Durable machines designed for heavy industrial applications where fuel efficiency and less noise are a priority over machine footprint. The 400 model delivers 10,000 watts of generator power, while the 500 Pro provides 20,000 watts — so you can plug in an extra inverter-based power source for a second welding arc. Superior arc control makes it easier to fine-tune for hard-to-weld materials.



Miller® XMT® 400 & 650 ArcReach® systems and XMT 650 ArcReach® with Polarity Reversing

Unnecessary trips to the power source cost thousands each year. XMT 400/650 ArcReach with polarity reversing keeps welders at the arc for better quality and productivity. The ArcReach 16 field roller adds integrated rollers, spool cover, bail and cable holder — built to move easily over pan decking and tough surfaces.

- 1 Cable Length Compensation (CLC™)**
Automatically adjusts voltage based on weld cable length — the voltage you set is the voltage you get.
- 2 Auto-Process Select™ and Auto-Process Reversion**
Automatically switches to the right process for the accessory connected, so operators never leave the joint. Restores the original setting when the accessory is removed — reducing errors and improving efficiency.
- 3 Auto-Line™ technology**
Automatically connects to any input from 208–575V, single- or three-phase, 50/60 Hz. No manual linking needed. It handles “dirty” power, managing dips and spikes for smooth, powerful arcs.

CST™ 282

Designed for welding pipe and plate in the construction industry, this compact, 35-pound, goes-anywhere welder delivers 280 amps of superior stick and TIG performance with Auto-Line™ technology to utilize nearly any source of primary power on the jobsite.

Miller® Venture™ 150 S

A portable battery powered stick/TIG welder designed to eliminate costly setup delays and power sourcing hassles. Swappable battery packs engineered for welding keep crews working efficiently, saving up to 250 hours per year. With a compact and durable design, no generators and minimal setup, the Venture 150 S delivers power and mobility exactly where you need to be — welding.

Bernard® IronPro™ self-shielded FCAW guns

Designed to withstand the toughest welding conditions, this MIG gun offers excellent durability, making it ideal for rough use in demanding environments.

① Built for comfort and safety

The sealed trigger design keeps slag and spatter from entering the trigger area, reducing maintenance downtime and ensuring long-lasting performance. Additionally, an optional heat shield helps protect welders' hands from extreme heat, enhancing comfort and safety on the job.

② Optimized for maneuverability and ease of maintenance

A short handle design provides better control and improved joint access in tight spaces. Two neck sizes accommodate different length and bend radius needs. Internal trigger leads eliminate the risk of cords getting caught on surrounding objects. Plus, the replaceable power cable liner allows for quick and easy power cable maintenance to minimize downtime and keep operations running smoothly.

Hobart® 418 stick electrodes

This general-purpose electrode is formulated to minimize hydrogen formation and help eliminate cracking. It's easy to use in all positions and delivers excellent arc stability, low spatter levels and easy slag removal.

Hobart® Fabshield® XLR-8™ self-shielded FCAW wires

A self-shielded, flux-cored wire designed especially for outdoor applications. XLR-8 offers an H8 low-hydrogen designator along with excellent CVN toughness. This product meets D1.8 seismic requirements and offers excellent welder appeal in all positions and in both single- or multiple-pass applications.



PIPE WELDING / SHOP WORK

A successful pipe fabrication shop handles a wide variety of projects and processes to produce excellent welds every time — but outdated welding equipment and less productive welding processes can keep you from achieving productivity goals and completing quality work.

Pipe fabrication solutions from Miller, Hobart and Bernard can maximize your shop's productivity and weld quality to give you a real competitive edge.

Maxstar® 400

The Maxstar 400 series is a powerful, compact DC TIG/stick power source capable of welding up to 5/8-inch material. High-speed pulse control provides maximum productivity and weld quality while conserving energy.

1 Easy-to-understand interface

A big 7-inch LCD display helps ensure proper machine setup and parameter selection.

2 Program memory

Easily name, save and recall favorite weld settings — up to 99 different entries.

3 Locks and limits

Provides control of weld parameter ranges to minimize deviation from the welding procedure specification (WPS).



PipeWorx 400 welding system

This simplified system delivers fast setup and process changeovers to reduce training time. Weld processes are optimized to deliver superior arc performance and stability specifically for root, fill and cap passes on pipe.

1 Simple to set up and save processes

Requires just a few basic steps to set up a new weld process, with clearly labeled controls in easy-to-understand welder terminology. The memory feature stores four programs for each selection: stick, DC TIG and MIG (left and right side of feeder), which is beneficial when using multiple procedures, process parameters or welders.

2 Quick process changeover

No manual switching of polarity, cables or hoses between processes. Simply push a process selection button and PipeWorx Quick-Select technology automatically selects the correct welding process, polarity, cable outputs, gas solenoid and welding parameters to reduce setup time and costly reworks.

3 Conventional and advanced processes

MIG, flux-cored, stick and DC TIG (Lift-Arc™ or HF start) — plus pulsed MIG and Regulated Metal Deposition (RMD®). RMD easily bridges gaps up to 3/16-inch wide and creates more consistent root reinforcement on the inside of the pipe. Pulsed MIG reduces the risk of burn-through on thin pipes and improves results on stainless steel. Utilizing RMD for the root pass and pulsed MIG for the remaining passes also saves time, since one wire and gas can be used from root to cap.

Hobart® FabCO® Triple 7 wire

An all-position wire that makes hard work easier. Thanks to its forgiving arc, it brings welders a wider window of operation, making it a great choice for welders of any skill level since it helps lay down expert welds. Its expanded mechanical properties mean it can be used in both T-01 and T-9 applications.

Hobart® MEGAFIL® wire

These seamless wires are available in both metal-cored and flux-cored options. By eliminating the seam in flux-cored wires, there's little to no opportunity for moisture pickup, resulting in extremely low diffusible hydrogen values and reducing the chance for hydrogen cracking. The use of the MEGAFIL metal-cored wires offers a one-wire solution from root to cap with exceptional mechanical properties.



Bernard® PipeWorx MIG guns

Designed for use with all PipeWorx welding systems, these versatile guns can be used on MIG, pulsed MIG and flux-cored processes.

- 1 Easy to use**
Compact and lightweight to reduce welder fatigue.
- 2 Designed for visibility**
The combination of tapered tips and nozzles plus a 60-degree neck provides excellent visibility on pipe joint root passes.
- 3 High-amperage capability**
Improves productivity and handles big jobs.

Hobart® 7018 XLM

This extra low-moisture high deposition rate iron powder electrode is designed for DC reverse polarity or AC operation in all positions. Operators love its quiet arc, minimal spatter and good restrike capabilities. Good slag removal and an easily controlled weld puddle allow outstanding ease when welding vertically or overhead.

Pipemaster® Pro-60

Specially designed to provide outstanding arc stability, penetration and wash-in for use on API 5L steels such as grade A, B, X-42, X-46, X-52, X-56 and for the root pass on material up to X-80.





Field conditions present unique challenges to pipe welding. Welders often must work long distances from their power sources, making parameter changes more difficult. Outdated machines that don't support advanced processes reduce productivity and weld quality. And filler metals that are prone to moisture absorption can cause hydrogen cracking in the weld.

There's a better way — get the improvements in productivity and weld quality you need with advanced solutions from Miller, Hobart and Bernard.

Maxstar® 210/280 series TIG welders

This series is a powerful combination of capability and portability. The DC TIG/stick power sources feature an energy-efficient inverter design and Auto-Line™ technology.

Maxstar® 210 (Standard, DX, STR)

The perfect combination of sophisticated inverter technology and advanced features. Weighing only 38 pounds, it's an extremely versatile DC TIG/stick power supply.

Maxstar® 280 (Standard, DX, Multipurpose)

Energy-efficient advanced features for heavier field applications. It weighs only 47 pounds and can weld up to 3/8-inch thick material. Multiprocess variant is also available (compatible with ArcReach 8 or 12 SuitCase® feeders).

Miller® Big Blue® engine-driven welders

These powerful engine-driven welders are an ideal choice for reliable, high-amperage pipe welding in the field.

Big Blue® 400 PipePro®

Delivers ease of use, reliability and fuel economy with up to 400 amps of welding power at 100 percent duty cycle, in addition to 10,000 watts continuous/12,000 watts peak generator power. Dynamic DIG is a Miller-exclusive technology that automatically adjusts the amount of current required to clear a short. Created specifically with the pipe welder in mind, it results in a smoother, more consistent arc.

Big Blue® 800 Duo Pro

The most powerful T4F diesel engine-driven welder in the industry, offering robust output for welding and power generation. Provides multi-welder capabilities for labor-intensive jobsites with limited space. Capable of running 800 amps for a single welder or 400 amps each for two welders — with 20,000 watts of continuous three-phase auxiliary power and 12,000 watts of single-phase power available at the same time.



ArcReach® Smart Feeder

Provides full remote-control capabilities for RMD®, pulsed MIG and flux-cored welding at the weld joint, including control of weld process selection, material type and wire diameter, gas type, wire feed speed and voltage. Impact-resistant case and elimination of feeder control cables deliver a durable solution in harsh environments.



Hobart® Quantum Arc™ 6 wire

Designed to withstand the toughest welding conditions, this MIG gun offers excellent durability, making it ideal for rough use in demanding environments.

1 Built for comfort and safety

The sealed trigger design keeps slag and spatter from entering the trigger area, reducing maintenance downtime and ensuring long-lasting performance. Additionally, an optional heat shield helps protect welders' hands from extreme heat, enhancing comfort and safety on the job.

2 Optimized for maneuverability and ease of maintenance

A short handle design provides better control and improved joint access in tight spaces. Two neck sizes accommodate different length and bend radius needs. Internal trigger leads eliminate the risk of cords getting caught on surrounding objects. Plus, the replaceable power cable liner allows for quick and easy power cable maintenance to minimize downtime and keep operations running smoothly.

Learn more about RMD at
[MillerWelds.com/
AdvancedProcesses](http://MillerWelds.com/AdvancedProcesses)



Miller® ArcReach® technology and accessories

Unnecessary trips to the power source waste time, money and productivity. Miller ArcReach technology fixes that by giving welders remote control of the power source — no extra cords needed. Using existing weld cables, ArcReach sends parameters between the power source and accessories, so welders can stay at the joint, work faster and reduce unnecessary jobsite risks.

Greater productivity and safety, improved weld quality and more control at the weld joint — all with ArcReach. Power source controls are also locked out to prevent accidental changes, while Auto-Process Select™ automatically senses polarity and engages the correct mode, saving time on-site.



① Accessories for structural welding

The ArcReach SuitCase® wire feeder delivers smooth, reliable wire feeding across a wide voltage range. The ArcReach stick/TIG remote gives welders full parameter control at the joint, with quick adjustments to amperage and arc control.

② Accessories for pipe welding

The ArcReach Smart Feeder provides full remote control for RMD, pulsed MIG and flux-cored welding, with rugged durability and no extra feeder cables. The ArcReach stick/TIG remote with Polarity Reversing lets welders adjust heat, tune arc characteristics and change polarity with the push of a button. For heating applications, the ArcReach Heater offers a portable, air-cooled induction solution up to 600°F (315°C), delivering fast, uniform heating with greater safety and efficiency.

Learn more about
ArcReach technology at
MillerWelds.com/ArcReach





OPTIMIZE YOUR WELDING OPERATION

Despite the different demands within the construction world, some of the same challenges exist: maintaining a skilled labor pool, controlling costs, meeting deadlines and producing the results your customers demand. You can meet those challenges. Help your workers maximize productivity, minimize expenses and get jobs done on time with exceptional quality by using the best welding equipment and consumables.



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