



ASAHI/AMERICA

Welding Equipment & Field Services

Butt Fusion | Socket Fusion | Electrofusion
IR/Beadless High Purity Fusion | Hot Air Welding

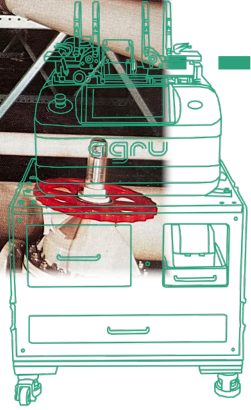
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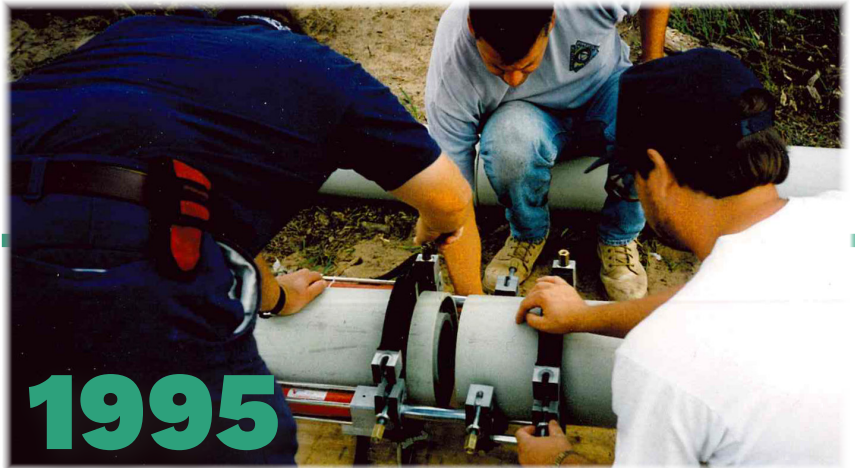
Asahi/America + AGRU

1984: Since the mid-1980s, Asahi/America has held a strong partnership with AGRU Kunststofftechnik GmbH of Austria to provide thermoplastic industrial and high purity piping for the United States market.



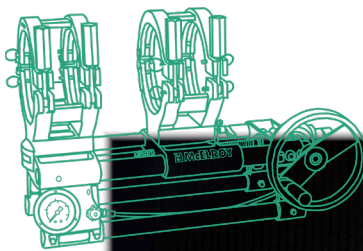
Field Assistance Program

1995: Asahi/America launched its Field Assistance Program, sending certified trainers to job sites to provide hands-on instruction for operators on the proper use of Asahi/America's fleet of fusion tools.



McElroy Partnership

2023: Asahi/America formed a partnership with McElroy of Tulsa, OK to provide a fleet of industrial butt and socket fusion tools available for purchase and rental.



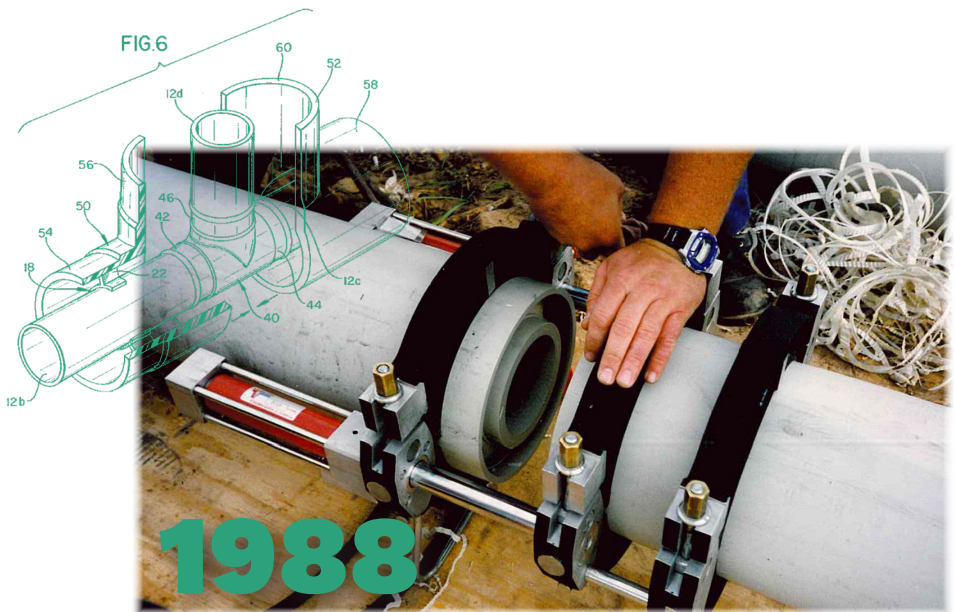
Tool & Rental Program

1985: Asahi/America's Tool & Rental Program started as a way to support safe, efficient thermoplastic piping installation by providing a full range of fusion equipment combined with expert support for a wide range of industries.



First Double Containment Weld

1988: Asahi/America applies and is granted a double contained Dogbone® fitting patent. Shortly after, Asahi/America pioneers thermoplastic double containment piping welding.



Custom Pre-Fabrication

Today, Asahi/America takes pride in being a full-service provider, delivering end-to-end project support—from design and project management to logistics, pre-fabrication, tool rentals, and on-site field assistance.



BUTT WELDING

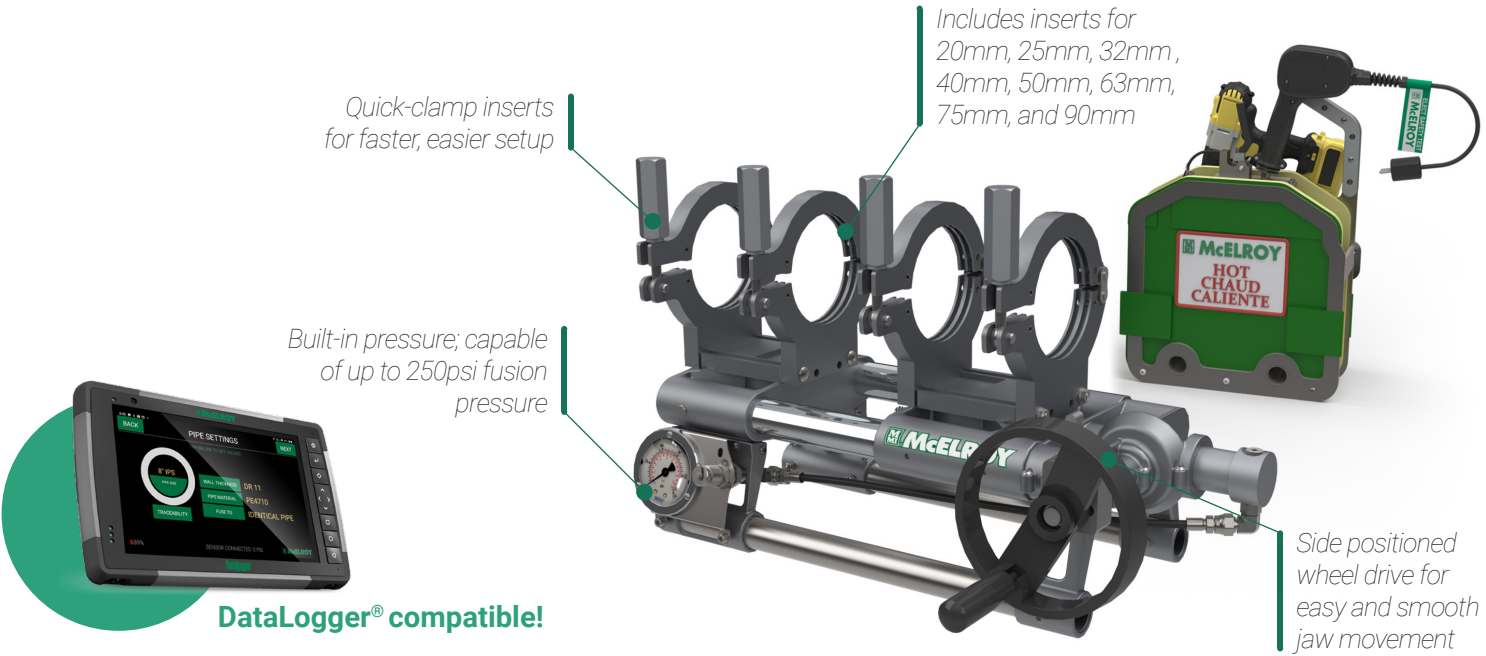


Scan the QR code to check out our [Welding Selection Chart](#) and find out which tool suits your needs!

POLYGON™ TOOLS

MINIPLAST® SYSTEM POWERED BY MCELROY POLYGON™ LT

The Miniplast® System powered by the McElroy Polygon™ LT is a compact tool with a fast open/close time to perform butt fusions on 20mm to 110mm pipe (1/2" - 4" nominal). Includes a port for DataLogger® connection (see page 7).



Quick-clamp inserts for faster, easier setup

Built-in pressure; capable of up to 250psi fusion pressure

Includes inserts for 20mm, 25mm, 32mm, 40mm, 50mm, 63mm, 75mm, and 90mm

Side positioned wheel drive for easy and smooth jaw movement

DataLogger® compatible!

MAXIPLAST® SYSTEM POWERED BY MCELROY POLYGON™

The more robust Maxiplast® System powered by the McElroy Polygon™ allows installers the flexibility to complete butt and miter fusions from zero- to 45-degree angles. Its simple design and light weight make this tool the ideal prefabrication tool for 63mm to 160mm pipe installs. Includes a port for DataLogger® connection (see page 7).



Manually-powered fusion carriage and battery-operated facer drill means only minimal power required for the 1,600-Watt heater

Save time and money by navigating around obstructions with a tool that can fuse miter angles on the job

Side-positioned, quick open/close wheel drive for easy carriage and smooth jaw movement

Pivoting jaws lock in at exact angles from 0 to 45 degrees for fast and easy setup

DataLogger® compatible!

Easy-to-view pressure gauge

ACROBAT™ TOOLS

ACROBAT™ 160, 180 MED FORCE, 250, 315, & 315 EXTENDED RANGE

The Acrobat™ series of fusion machines offers the best capabilities for butt fusion in today's most advanced piping systems. With its optimal weight and compact design, the Acrobat™ is an easy machine to manipulate whether you're fusing pipe in the ceilings, the walls, or the ground. The Acrobat™ 180 Med Force fusion machine is ideally suited with a higher pressure hydraulic system for welding Asahi/America's HDPE Fluid-Lok® double contained pipe systems. Includes a port for DataLogger® connection (see page 7).

Hard-anodized surfaces and inserts for corrosion resistance

Tool-less conversion from 4-jaw to 3-jaw carriage for tight work spaces

Microprocessor-controlled heater with built-in thermometer and anti-stick plates

Electric facer offers fast, efficient facing with advanced blade design for long life and smooth face-off



DataLogger® compatible!



Acrobat™ 315 shown for reference

ACROBAT™ 355/400, 450/500, & 560/630 QUIKFIT® PACKAGE TOOLS

McElroy's Acrobat™ machines that feature the QuikFit® carriage are size-specific and are composed of lightweight, modular components so that the upper and lower jaws can be assembled around the pipe by hand. This eliminates the difficulty of lifting and fitting an entire carriage into a small space. It will fuse pipe in any orientation that is required on plumbing, mechanical, and HVAC installations, including vertical and overhead. Includes a port for DataLogger® connection (see page 7).

Lightweight, interchangeable pieces for optimal close-quarter fusion

Tool-less conversion from 4-jaw to 2-jaw carriage for tight work spaces

Jaws made-to-fit, don't require inserts to clamp pipe



DataLogger® compatible!

Facer blade orientation allows shavings to fall inside or outside the pipe



Note: McElroy QuikFit® Core Package required for each of the size-specific QuikFit® tools (all 355/400, 450/500, 560/630 tools) and Productivity Package.

BUTT WELDING



Scan the QR code to check out our [Welding Selection Chart](#) and find out which tool suits your needs!

Patented Centerline Guidance System for equal distribution of force around the joint



Serrated jaws and inserts keep pipe from slipping during fusion

Removable 3- or 4-jaw carriage for in-ditch use

Industry standard semi-automatic hydraulic control system



DataLogger® compatible!

HYDRAULIC TOOLS

PIT BULL® 412 & ROLLING 618

Bridging the gap between small and large diameter fusion, McElroy's Pit Bull® 412 and Rolling 618 hydraulic tools offer consistent and high quality results, and feature a versatile 4-jaw or 3-jaw convertible carriage for compact in-ditch use or overhead applications, respectively. Includes a port for DataLogger® connection.



BUTT FUSION MACHINES	SIZES - INCHES (MM)																		
	1/2 (20)	1 (32)	1-1/2 (50)	2 (63)	2-1/2 (75)	3 (90)	3-1/2 (100)	4 (110)	6 (160)	8 (200)	10 (250)	12 (315)	14 (355)	16 (400)	18 (450)	20 (500)	22 (560)	24 (630)	
MINIPLAST® SYSTEM POWERED BY MCELROY POLYGON™ LT																			
MAXIPLAST® SYSTEM POWERED BY MCELROY POLYGON™																			
ACROBAT™ 160																			
ACROBAT™ 250																			
PIT BULL® 412																			
ROLLING 618																			
ACROBAT™ 315																			
ACROBAT™ 315 EXTENDED RANGE																			
ACROBAT™ 355/400																			
ACROBAT™ 450/500																			
ACROBAT™ 560/630																			

Tools available for purchase or rental
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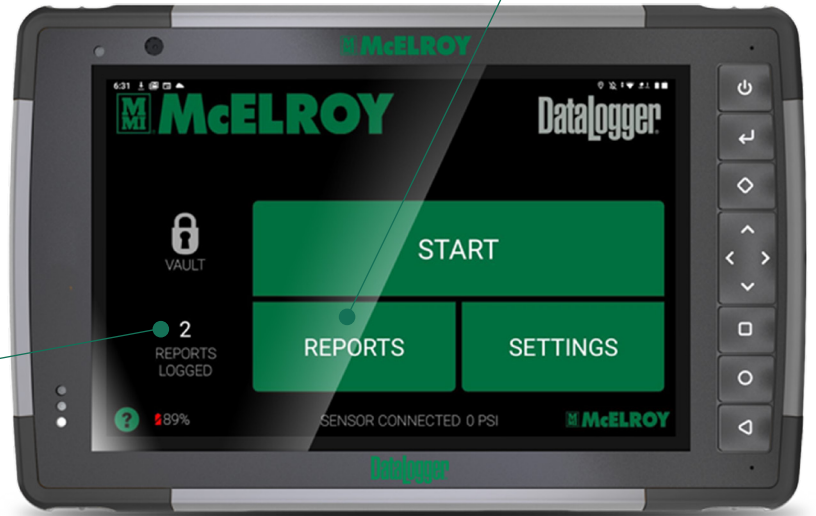
OPTIONS & ACCESSORIES

DATALOGGER™

With growing demands for record keeping and accountability in pipeline construction, ASTM F3124 sets standards for collecting fusion data. The DataLogger® 7 meets these requirements by capturing key fusion information, enabling traceability and assurance before pipelines go into service. Records can be securely stored, sorted, and shared via the Vault™, a secure online server.

Access to all of Asahi/America's welding parameters for both single and double wall piping systems

Ability to track and report all welding fusion data



SOCKET WELDING



Scan the QR code to check out our [Welding Selection Chart](#) and find out which tool suits your needs!

HAND SOCKET TOOLS

HAND HELD FUSION KITS (2" & 4")

Socket fusion kits are ideal for installing fittings for pipe diameters from 20mm to 110mm. These tools are designed specifically to socket fuse polypropylene (PP), polyethylene (PE), and polyvinylidene (PVDF) pipe and fittings. The use of a hand socket tool is only recommended for 20mm-32mm, larger sizes require a SmartFab™ bench socket or the Spider™ tool for the force required.



Heaters offer microprocessor control to precisely set and monitor heater temperature in all field conditions

20-Foot power cord to minimize electrical connections

Asahi offers the required heater bushings for DVS Type B socket welding

Table clamp/stand for easy and accessible heat soak process

SPIDER™ 125

The Spider™ 125 with universal clamping system is the preferred equipment for quick and accurate socket fusion field installations of 63mm to 125mm polypropylene pipe. The Spider™ 125 is used with the above hand held heater units, and provides the required force to make the weld.

The lightweight, compact device features a worm gear drive with parallel link system to bring pipe and fittings together evenly and under control. It features a universal clamping system that can accommodate any size of pipe or coupling, eliminating the need for inserts.

The Spider™ 125 has proven to be an exceptional tool for performing socket fusions in overhead, vertical and tight work spaces.

Strong gearbox and self-locking drive handle

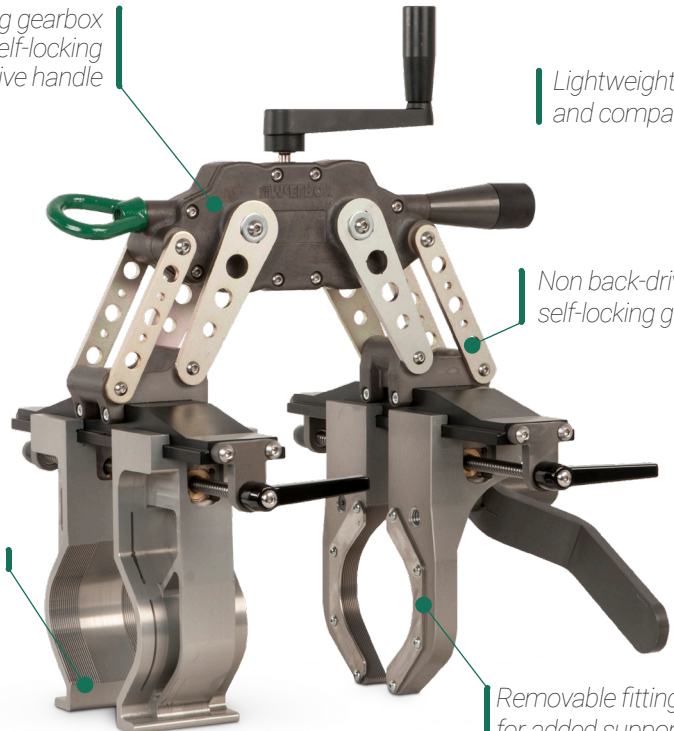
Lightweight and compact

Universal clamping jaw fits many piping materials & fittings

Non back-drivable, self-locking gearing

No inserts necessary

Removable fitting stops for added support and fusion capability





BENCH SOCKET WELDING

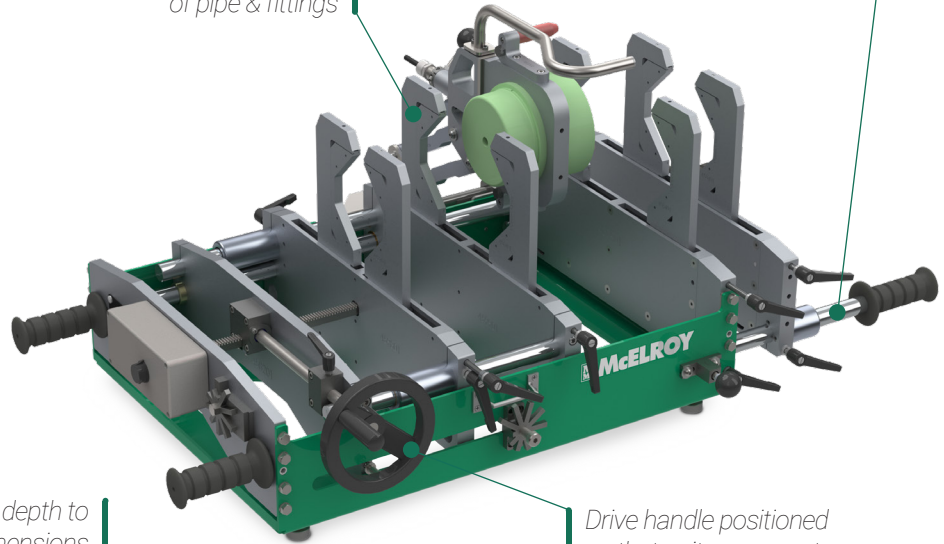
SMARTFAB™ 125

The SmartFab™ 125 benchtop machine design allows it to be positioned on any flat surface for precise prefabrication, providing versatility in the shop as well as the field.

Advanced features of the SmartFab™ 125 provide more efficiency with innovative inserts that reduce ovality in pipe and fittings. The heater pivots to easily accommodate fittings situated on either side of the machine, which eliminates having to reposition the entire machine. Its four jaws adjust to any desired spacing and each jaw clamps individually to the desired pipe and fitting size.

Jaws clamp individually and are size independent, allowing a great combination of pipe & fittings

Outer jaw spacing is adjustable, allowing greater flexibility, support and alignment while fusing fittings & assemblies



Positive stop at full stab depth to fabricate at exact dimensions

Drive handle positioned so that unit can operate on any flat surface

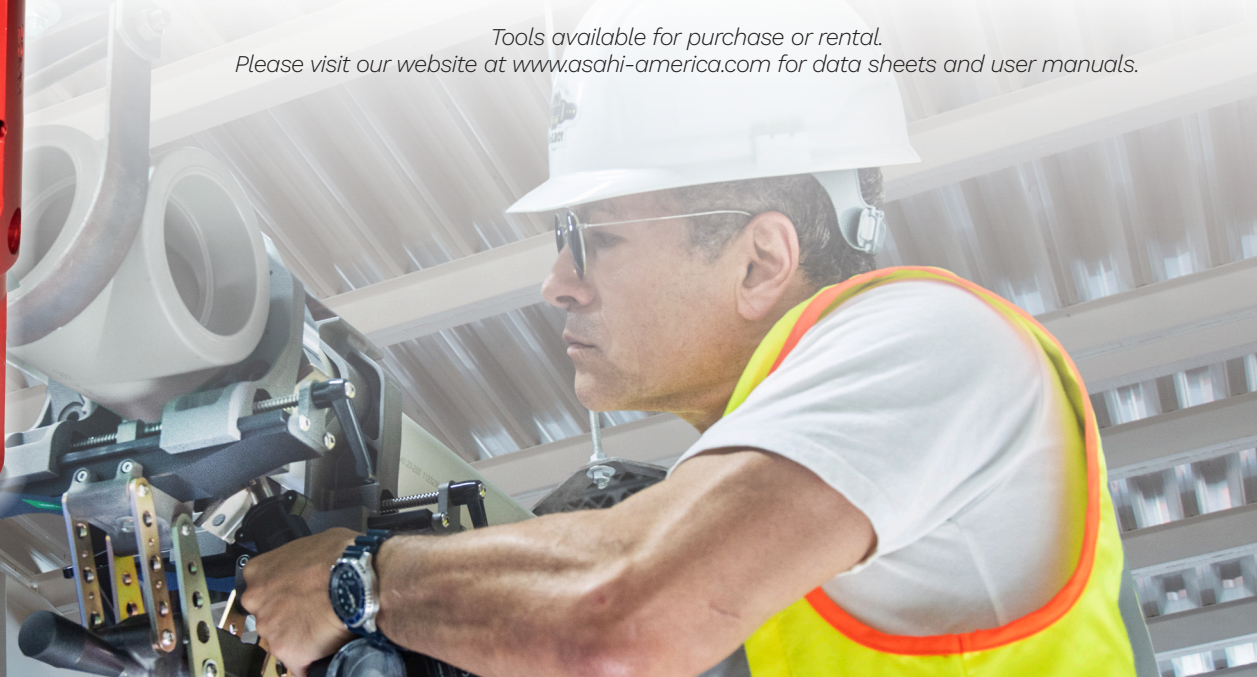
Meet: The PREP Tool!

The pipe PREP tool is used for socket welding by removing oxidation while planing and adds a bevel to the insertion face of the pipe.



SOCKET FUSION MACHINES	SIZES - INCHES (MM)										
	3/8 (16)	1/2 (20)	3/4 (25)	1 (32)	1-1/4 (40)	1-1/2 (50)	2 (63)	2-1/2 (75)	3 (90)	3-1/2 (100)	4 (110)
HANDHELD SOCKET FUSION KITS											
SPIDER™ 125											
SMARTFAB™ 125											

Tools available for purchase or rental. Please visit our website at www.asahi-america.com for data sheets and user manuals.





Scan the QR code to check out our [Welding Selection Chart](#) and find out which tool suits your needs!

IR FUSION WELDING

SP-110S V3.1 IR WELD TOOL

The next generation of IR technology, the SP 110-S V3.1 controls all equipment movements and parameters during each phase of the welding process (heating, change over, joining and cooling). The heating element and clamps are precisely controlled and moved by the welding equipment. This full automation eliminates operator influence during the fusion process and provides unmatched repeatability.

Built-in mechanical system for precise alignment, adjustment and control

Wireless weld transfer data

High level of weld quality and repeatability due to the full automated process

Printer, cleanroom labels, and adjustable clamps all stored in one convenient location

Suitable for cleanrooms - including cleanroom capable wheels

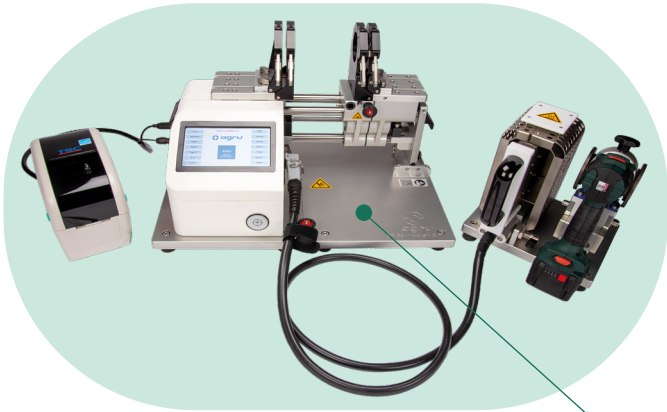




IR FUSION WELDING

SP 63-S V3, SP 250-S V3, SP 315-S V3

Along with our partner, AGRU Kunststofftechnik G.m.b.H., we are pleased to provide the SP-S series of infrared (IR) equipment. The SP-S series of IR weld equipment precisely controls all movements and parameters of the heating element and pipe clamps during each phase of the welding process. This full automation eliminates operator influence during the fusion process and provides unequalled repeatability.



Fully automated weld data recording and weld label provide 100% traceability

Computer-controlled welding process with intelligent sensors for repeatable weld results



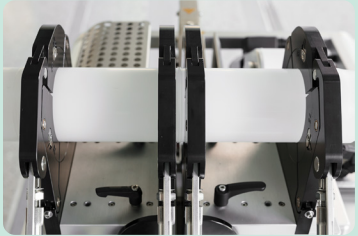
RFID identification recognizes certified welding operators

Mobile design of the 63-S tool for remote connections and final tie-in welds



Ideal for shop or cleanroom operation

Comes with printer and cleanroom labels



SP SERIES FUSION MACHINES	SIZES - INCHES (MM)											
	1/2 (20)	1 (32)	1-1/2 (50)	2 (63)	2-1/2 (75)	3 (90)	3-1/2 (100)	4 (110)	6 (160)	8 (200)	10 (250)	12 (315)
SP 63-S V3 MOBILE												
SP 110-S V3												
SP 250-S V3												
SP 315-S V3												
EF 110-B*												
SP 110-B												

Tools available for purchase or rental
Please visit our website at www.asahi-america.com for data sheets and user manuals

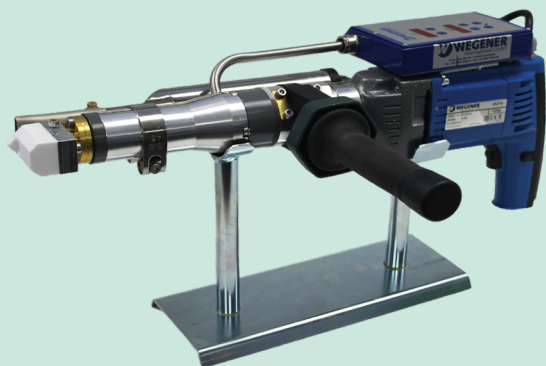


Scan the QR code to check out our [Welding Selection Chart](#) and find out which tool suits your needs!

HOT AIR & EXTRUSION WELDING

HOT AIR WELDER

Hot air welders are available for welding centralizer discs for our double contained piping systems and for welding the socket hub of our Pro-Vent® piping system. The standard weld tip is a combo/tacking tip, which allows welding of our PP, PE, or PVDF welding rod, available in 3mm (1/8") and 4mm (5/32") sizes. We also have a tri-tip welder available for use with our PP 5mm x 7mm triangular welding rod, which is best suited for Pro-Vent® fittings 355mm (14") and above. A special version of the tool is also available for welding ECTFE centralizer discs.



EXTRUSION WELDER

Extrusion welders are available for larger surface welds during fitting fabrication or for installing our large-diameter double contained centralizer disc. The extrusion welding tool uses any 3mm to 5mm round welding rod made of PE, PP, or PVDF. Frequently used for low-pressure fitting fabrication such as Pro-Vent® skids (below).



REMOTE BEADLESS WELDING

EF 110-B REMOTE BEADLESS

The EF 110-B beadless electrofusion welding machine is ideal for final remote tie-in welds and uses HPF couplings. You can weld with or without balloons. For use on 1/2" to 2" single wall PVDF piping systems. The EF 110-B welding machine comes with the control unit, the power transformer, planer, clamp, base and storage case.

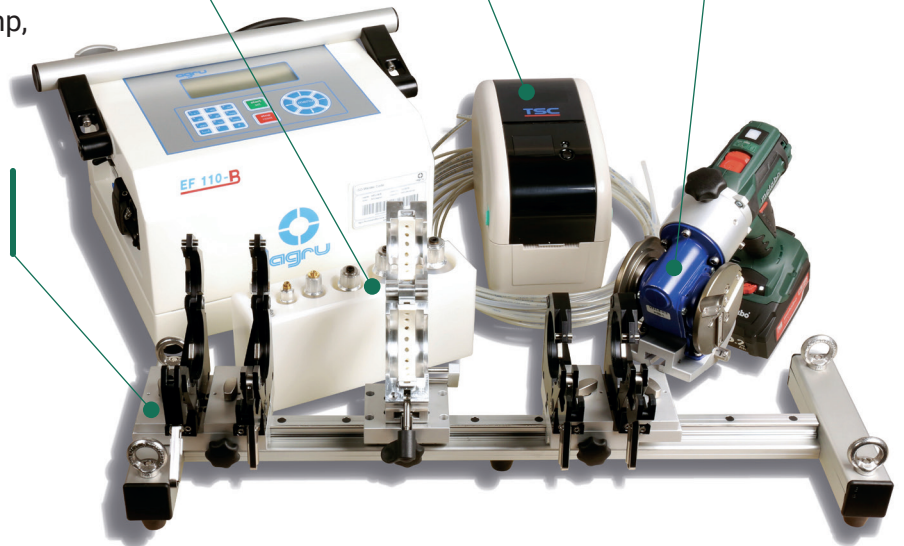
GREAT FOR REMOTE TIE-IN WELDS!

Lightweight, mobile aluminum frame construction

HPF couplings and balloons prevent weld beads when required

Printer for convenient weld labeling ability

Battery-powered planer with spare battery and charger



The SP 110-B stores all weld data that is accessible for the user and can be downloaded to an external storage device

SP 110-B BEADLESS WELDING TOOL

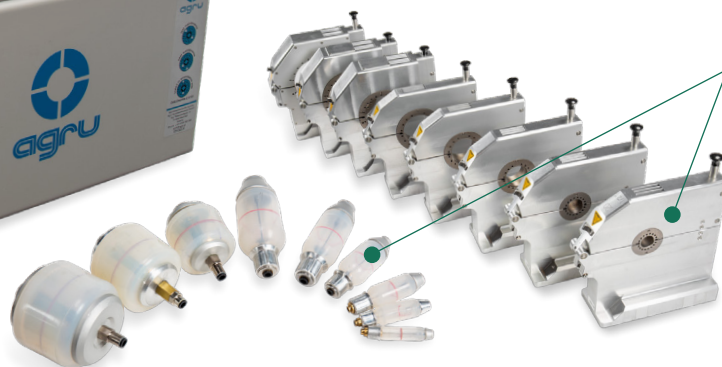
Beadless welding is a common requirement in the life sciences and pharmaceutical industry. With no weld bead or crevice in the joint, it eliminates a potential location for bacteria and biofilm buildup inside the piping system. The SP 110-B welds pipe, valves, and fittings from 1/2" to 4". This tool uses an outer diameter heater and pressurized balloon to eliminate the weld bead. Like the rest of Asahi/America's SP tools, all critical parameters are automated, saving time and producing consistent welds.

Note: Balloons must be purchased with tool rental or tool purchase.



Tool will automatically identify pipe diameter based on heater head selected & installed

Outer diameter heater and pressurized balloons eliminate the weld bead



USABILITY & ACCESSORIES

FIELD ASSISTANCE & CERTIFICATION

We are committed to supporting you in your use of our products to ensure optimal performance and reliability, offering training and technical assistance to help you and your team become familiar with our products, including best practices for handling, setup, initial operation, and use of installation equipment such as welding equipment. Our commitment includes on-site guidance to support the proper implementation of our products in your project.

However, we must emphasize that while we provide this level of support, our role does not extend to executing or overseeing the actual installation. We believe this approach allows us to maintain the quality and integrity of our product support while leaving installation responsibility to your selected professionals.



Leak detection startup training includes welding requirements for a cable leak detection system, wire pull, connector/cable installation, and the final panel startup/commissioning.

TOOL & RENTAL PACKAGING

All rental tools ship in heavy duty wooden shipping boxes to protect the equipment during transit. Checklists (like the one to the right) are included as well to ensure all parts are returned with the tool.



Easy packing/unpacking

Metal hinges and corner guards help keep the box intact

Robust wooden construction

Design is custom-fitted for each tool

Acrobat 315 90-315 Version 9793315MC Checklist

Project Name:	Machine # 24641
Client:	Customer #
Attention:	Telephone
Address:	Fax #
Rental— X	Purchase—
COB	PCB

Basic Unit Includes:	McElroy PN	Quantity	Sent Out	Returned
Welding Machine SHW C160173	A316P1624001			
Hydraulic Unit SH # C161288	716605	1	X	
Electric Planer	216P1634462	1	X	
Electronic Mirror	A1242168	1	X	
Planer Carrying Frame	T1201101	1	X	
Mirror Carrying Frame	316P16091	1	X	
Hydraulic Hose (attached to Hydt Unit)	716700	1 Set	X	
Inserts:				
200mm 1 1/2" Clamp & Fitting Inserts	31603794	6x2	X	
250mm 1" Master Clamps & Fitting Inserts	31603804	6x2	X	
225mm 2" Clamp & Fitting Inserts	2603818	6x2	X	
200mm 2" Clamp & Fitting Inserts	2603819	6x2	X	
180mm 2" Clamp & Fitting Inserts	2603818	6x2	X	
160mm 2" Master Clamp & Fitting Inserts	2303812	6x2	X	
125mm 4 1/2" Clamp & Fitting Inserts	716602	6x2	X	
110mm 4" Clamp & Fitting Inserts	716604	6x2	X	
90mm 3" Clamp & Fitting Inserts	716608	6x2	X	
Additional Included				
Manual		1 Each	X	

Comments: NEW TOOL

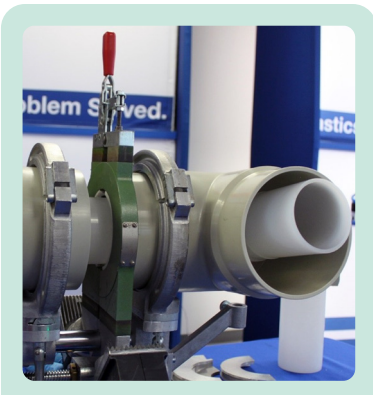
Checked By: Stephen Lam Date Complete: 9/22/2025

Partial Acrobat 2025 Rev A 03/10/23

UNIQUE ACCESSORIES

ANNULAR MIRROR

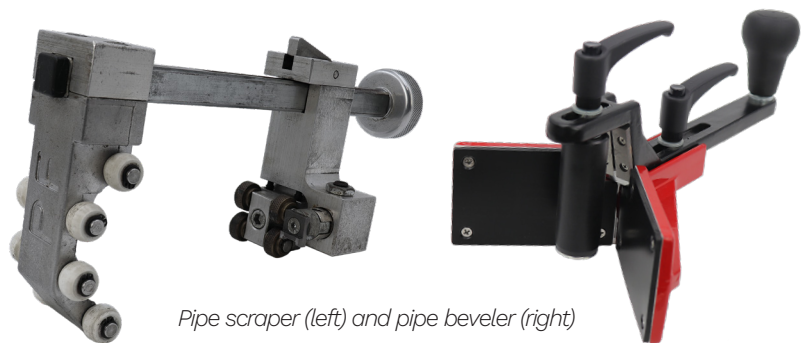
An annular mirror is used to weld the inner (carrier) pipe in double contained piping systems when the carrier is a different material than the outer pipe.



Enables staggered welding on double-contained piping systems

PIPE SCRAPER & PIPE BEVELER

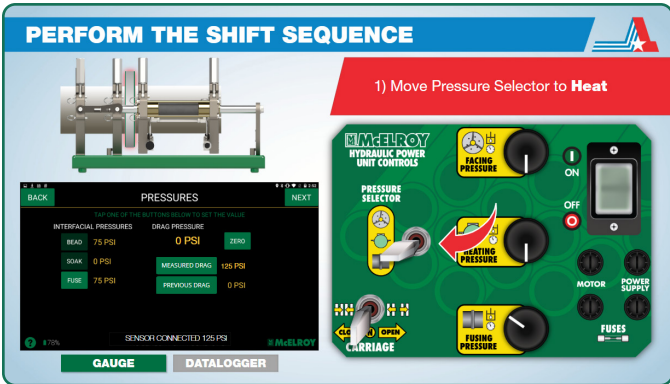
Pipe scrapers are required to "peel" the outer layer of pipe or fittings to prepare it for electrofusion (EF) welding. The pipe beveler is used to "chamfer" the end of a pipe before a socket weld, preventing the pipe from pushing molten plastic into the fitting during the weld.



Pipe scraper (left) and pipe beveler (right)

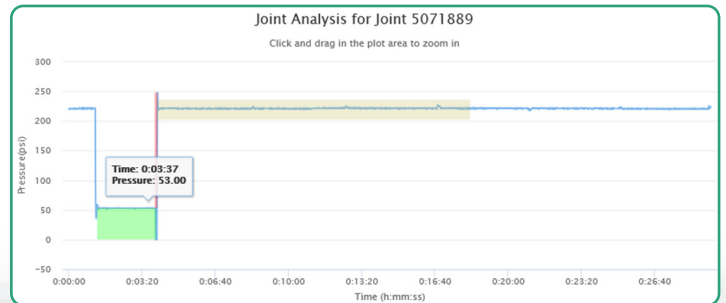
ONLINE TRAINING PROGRAMS

Asahi/America's online training consists of several formats and training topics. Our welding tool training modules, developed with McElroy, are available for remote training and are recommended before our trainers arrive on site. They have interactive segments (shown below) that allow the trainee to virtually operate a hydraulic butt fusion process.



McELROY VAULT

The McElroy Vault™ allows more data to be associated with each joint report that's collected on your job site. The easy-to-use interface quickly shows the number of jobs associated with your account and the number of joints recorded on each individual job site. The records can be sorted by job, operator, machine used, and more to gain greater insights into your operations. The operator can also add photos of the finished weld. Once the customer has uploaded their weld records to their vault account, they can share them with anyone: QA/QC inspectors, welding tool suppliers, piping material suppliers, etc. This accessibility allows full weld inspection remotely from anywhere. Weld reports can be downloaded as PDFs or spreadsheet files that can be shared with customers, owners, or those without access to the Vault.



PIPE. VALVES. FITTINGS. ACTUATORS. CUSTOM FABRICATION.



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