Welding Equipment 2018

Butt Fusion • Socket Fusion • Electrofusion • IR/Beadless High Purity
# Welding Equipment Catalog #WEC-18

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For the most current information please visit: [www.asahi-america.com](http://www.asahi-america.com)
Asahi/America, Inc. maintains a large fleet of welding equipment for rental convenience. Our flexible rental terms can easily accommodate quick tie-ins or multi-phase projects. Most customers rent equipment for several months and simply return them when the project is completed.

Onsite training
Only trained personnel should operate welding equipment. Asahi can provide onsite training on operation of welding equipment and proper installation of our materials. Whether welding socket fusion by hand or non-contact infrared (IR) butt fusion the individual requirements vary. Therefore, it is critical to be certified by an Asahi/America, Inc. authorized representative according to our Weld Qualification Process (WPS).

Each operator that successfully completes the training will be issued a certification card which remains valid for up to 12 months.
Weld Types

Socket Welding
- Coupling
- Heater Inserts
- Pipe

Preparation of the Weld
- Alignment and Preheat
- Joining and Cooling

Electrofusion Welding
- Heated Area
- Initial Heating
- Molten Material

Joining and Cooling

Pipe

Completed Weld

Contact Butt Welding
- Pipe
- Heater
- Pipe

Initial Melt
- Molten Area Increases
- Heat Transferred to Surface of Pipe
- Which in Turn Begins to Melt

Joining and Cooling

Completed Weld

Non-Contact Infrared Welding
- Pipe
- Heater
- Pipe

Start of Heating
- Molten Area Increases
- Heat Transferred to Surface of Pipe
- Which in Turn Begins to Melt

Joining and Cooling

Completed Weld

Beadless Welding
- Pipe
- Heater
- Pipe

Balloons Alignment
- Balloon

Heat Head (ring)

Heat Soak

Completed Weld
Compact Manual Butt Fusion

**Features**
- Horizontal and vertical adjustment
- Compact design
- Ability to make angle welds and miter joints
- Built-in force gauge
- Removeable from base for field operation
- Supplied with hand ratchet planer

**Options**
- IPS inserts 1/2" - 3"
- 1"x3" annular heating element
- 2"x4" annular heating element
- Electric planer (PN 9706000) for easier planing

**Size Range**
20mm - 110mm (1/2" - 4")

**Piping**
Single and double wall

**Materials**
PE, PP, PVDF

**Power**
110V

**Dimensions**
21"x9"x14"

**Weight**
25 lbs.

**Shipping Dimensions**
48"x40"x24"

**Shipping Weight**
150 lbs.

**Manual Butt Fusion**

MaxiPlast® Shop 6

**Features**
- Horizontal and vertical adjustment
- Compact design
- Ability to make angle welds and miter joints
- Electric planer standard
- Built-in force gauge
- Removeable from base for field operation

**Options**
- 3"x6" annular mirror
- IPS inserts 1-1/2" - 6"

**Size Range**
50mm - 160mm (1-1/2" - 6")

**Piping**
Single and double wall

**Materials**
PE, PP, PVDF

**Power**
110V

**Dimensions**
20"x12"x16"

**Weight**
50 lbs.

**Shipping Dimensions**
48"x40"x32"

**Shipping Weight**
250 lbs.
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Shop 12 Manual

Manual Butt Fusion

Size Range 50mm - 315mm (1-1/2" - 12")
Piping Single and double wall
Materials PE, PP, PVDF
Power 110V

Dimensions 36"x28"x22"
Weight 315 lbs.
Shipping Dimensions 48"x40"x47"
Shipping Weight 450 lbs.

Options
• IPS inserts 3" - 10"
• 3"x6", 4"x8", 6"x10", 8"x12" annular heating element

Features
• Built-in force gauge
• Ideal for shop operation
• Horizontal and vertical adjustment

Note: Check Asahi/America’s welding tool selection guide (see page 26-27) as welding pressure may be above tools pressure limit.

Shop 12 Hydraulic

Hydraulic Butt Fusion

Size Range 90mm - 315mm (3" - 12")
Piping Single and double wall
Materials PE, PP, PVDF
Power 220V / 30A / 3ph
Plug Provided NEMA L15-30 P

Dimensions 51"x36"x50"
Weight 600 lbs.
Shipping Dimensions 54"x51"x49"
Shipping Weight 1650 lbs.

Options
• IPS inserts 3" - 12"

Features
• Electro-hydraulic force control
• Robust frame for shop installations
• Designed for SDR11 thick wall pressure pipe
• Ideal for shop fabrication of spools

Purchase Part Number 5722000
Rental Part Number 9722000

Shop 12 Hydraulic

Hydraulic Butt Fusion

Size Range 90mm - 315mm (3" - 12")
Piping Single and double wall
Materials PE, PP, PVDF
Power 220V / 30A / 3ph
Plug Provided NEMA L15-30 P

Dimensions 51"x36"x50"
Weight 600 lbs.
Shipping Dimensions 54"x51"x49"
Shipping Weight 1650 lbs.

Options
• IPS inserts 3" - 12"

Features
• Electro-hydraulic force control
• Robust frame for shop installations
• Designed for SDR11 thick wall pressure pipe
• Ideal for shop fabrication of spools

Purchase Part Number 5790000
Rental Part Number 9790000
**Halar® Bench 6**

**Manual Butt Fusion for Halar® (ECTFE)**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>IPS inserts 3&quot; - 12&quot;</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>High temp heating plate for Halar® welds</td>
</tr>
<tr>
<td></td>
<td>Lever action for quick change over time</td>
</tr>
<tr>
<td></td>
<td>Thin master clamps for keeping tight fabrication dimensions</td>
</tr>
<tr>
<td></td>
<td>Built-in force gauge</td>
</tr>
<tr>
<td></td>
<td>Ideal for shop operation</td>
</tr>
</tbody>
</table>

**Available for Rental Only**

- **Size Range**: 20mm - 160mm (1/2" - 6")
- **Piping**: Single Wall
- **Materials**: Halar® (ECTFE)
- **Power**: 110V
- **Dimensions**: 21"x23"x23"
- **Weight**: 80 lbs.
- **Shipping Dimensions**: 48"40"x32"
- **Shipping Weight**: 215 lbs.

Distributed By Aetna Plastics

www.aetnaplastics.com
Field welding equipment is specifically designed for use within trenches or in pipe rafters where space is limited. Hydraulic control of the clamp movement limits user influence during the joining process.

Each tool consists of outside master clamps and a thin set of inserts that attach to the master clamps, which allows welding of multiple sizes on one piece of equipment.

Tools available for sizes larger than 6 foot diameter pipe, Asahi’s standard rental fleet consists of the following equipment:

**Features**
- Compact design
- Rugged light weight frame
- Adjustable speed control
- Adjustable temperature heating element
- Powerful planer with auto shut-off
- Vertical and horizontal welds

**Piping**
- Single wall - PE, PP, PVDF
- Double wall - Duo-Pro®, Poly-Flo®, Fluid Lok®

**Options**
- IPS inserts for Fluid-Lok® or single wall PE
- Datalogger add-on unit for recording weld data*

<table>
<thead>
<tr>
<th>Tool</th>
<th>Power</th>
<th>Plug (Provided)</th>
<th>Size Range</th>
<th>Purchase Rental</th>
<th>Tool Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field 6</td>
<td>230V /1ph 20A</td>
<td>NEMA L6-20P</td>
<td>50mm –160mm (1-1/2” - 6”)</td>
<td>5792000</td>
<td>24”x14”x13” (50 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9792000</td>
<td>48”x40”x28” (260 lbs.)</td>
</tr>
<tr>
<td>Field 10*</td>
<td>110V /1ph 20A</td>
<td>-</td>
<td>75mm – 250mm (2-1/2” - 10”)</td>
<td>5793100</td>
<td>29”x18”x18” (90 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9793100</td>
<td>48”x40”x38” (450 lbs.)</td>
</tr>
<tr>
<td>Field 12*</td>
<td>230V /1ph 20A</td>
<td>NEMA L6-20P</td>
<td>90mm – 315mm (3” - 12”)</td>
<td>5793000</td>
<td>33”x21”x22” (140 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9793000</td>
<td>48”x40”x38” (645 lbs.)</td>
</tr>
<tr>
<td>Field 12/IPS</td>
<td>110V /1ph 20A</td>
<td>-</td>
<td>90mm – 315mm (3” - 12” IPS)</td>
<td>5793001</td>
<td>33”x21”x22” (140 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9793001</td>
<td>48”x40”x38” (645 lbs.)</td>
</tr>
<tr>
<td>Field 14</td>
<td>230V /1ph 20A</td>
<td>NEMA L6-20P</td>
<td>90mm – 355mm (3” - 14”)</td>
<td>5793140</td>
<td>48”x29”x24” (360 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9793140</td>
<td>62”x49”x42” (1020 lbs.)</td>
</tr>
<tr>
<td>Field 20</td>
<td>230V /3ph 30A</td>
<td>NEMA L15-30P</td>
<td>200mm – 500mm (8” - 20”)</td>
<td>5676000</td>
<td>45”x32”x32” (285 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9676000</td>
<td>57”x53”x58” (1100 lbs.)</td>
</tr>
<tr>
<td>Field 24</td>
<td>230V /3ph 30A</td>
<td>NEMA L15-30P</td>
<td>315mm – 630mm (12” - 24”)</td>
<td>5677000</td>
<td>56”x42”x36” (500 lbs.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9677000</td>
<td>70”x60”x54” (1300 lbs.)</td>
</tr>
</tbody>
</table>

* SPA data logger PN 9793999 available currently for Field 6,10, 12.
Consult factory for other sizes.
Hand Held Socket 2

Purchase Part Number 5687001
Rental Part Number 9687001

Features
• Lightest welding tool in our fleet
• Convenient table clamp
• Ideal for field operation

Features
• Compact design
• Rugged lightweight frame
• Adjustable speed control
• Adjustable temperature heating element
• Powerful planer with auto shut-off
• Vertical and horizontal welds

Piping
• Single wall - PE, PP, PVDF

Options
• Heater bushings sold separately (page 23)
• PREP tool for PE and PP (page 13)

Includes
• Hand held heater paddle
• Table clamp
• Storage case

Dimensions
20"x10"x6"

Weight
3.5 lbs.

Shipping Dimensions
20"x17"x17"

Shipping Weight
16 lbs.

Hand Held Socket 4

Purchase Part Number 5687004
Rental Part Number 9687004

Features
• Ideal for remote socket welder (page 10)

Features
• Lightest welding tool in our fleet
• Convenient table clamp
• Ideal for field operation

Features
• Lightest welding tool in our fleet
• Convenient table clamp
• Ideal for field operation

Piping
• Single wall - PE, PP, PVDF

Options
• Heater bushings sold separately (page 23)
• PREP tool for PE and PP (page 13)

Includes
• Hand held heater paddle
• Table clamp
• Storage case

Includes
• Hand held heater paddle
• Table clamp
• Storage case

Dimensions
21"x14"x5"

Weight
7.5 lbs.

Shipping Dimensions
24"x19"x17"

Shipping Weight
25 lbs.
Remote Socket Welder

Purchase Part Number 5687222
Rental Part Number 9687222

Remote Socket Welding Jig

Features
- Easy operation in tight spaces
- Adapts to multiple sizes
- Includes clamp and base only

Note:
- Hand held socket welder required (see page 9)

Size Range 63mm - 125mm (2" - 4-1/2")
Piping Single wall
Materials PE, PP, PVDF

Dimensions 14"x15"x18"
Weight 15 lbs.
Shipping Dimensions 32"x23"x14"
Shipping Weight 50 lbs.

Remote Socket Welding Machine

Purchase Part Number 5687111
Rental Part Number 9687111

Features
- Easy operation in tight spaces
- Adapts to multiple sizes
- Ideal for overhead tie-ins

Note:
- Hand held socket welder required (see page 9)

Size Range 63mm - 125mm (2" - 4-1/2")
Piping Single wall
Materials PE, PP, PVDF

Dimensions 14"x15"x18" (Open)
Weight 15 lbs.
Shipping Dimensions 32"x23"x14"
Shipping Weight 50 lbs.
Bench Socket 4

Bench Top Socket Welding Machine

- Size Range: 20mm - 125mm (1/2" - 4-1/2")
- Piping: Single wall
- Materials: PE, PP, PVDF
- Power: 110V
- Dimensions: 28"x22"x14"
- Weight: 100 lbs.
- Shipping Dimensions: 48"x40"x37"
- Shipping Weight: 240 lbs.

Features:
- Smooth operation with rack-and-pinion
- Heating element is built into the machine
- Adjustable depth stop
- Ideal for shop operation
- Includes pipe beveler size 32mm-125mm (1" - 4-1/2")

Note:
- Heater bushings sold separately (see page 23)
- Available in metric DVS Type A or B, and IPS

Bench Socket 2

Bench Top Socket Welding Machine

- Size Range: 20mm - 75mm (1/2" - 2-1/2")
- Piping: Single wall
- Materials: PE, PP, PVDF
- Power: 110V
- Dimensions: 17"x15"x13"
- Weight: 66 lbs.
- Shipping Dimensions: 19"x25"x14"
- Shipping Weight: 95 lbs.

Features:
- Smooth operation with rack-and-pinion
- Adjustable depth stop
- Heating element removable for hand held welds

Note:
- Heater bushings sold separately (see page 23)
- Available in metric DVS Type A or B, and IPS
SMARTFAB 125

Socket Welder

Size Range
20mm - 125mm (1/2” - 4-1/2”)

Piping
Single wall

Materials
PE, PP, PVDF

Dimensions
16"x40"x31"

Weight
145 lbs.

Features
- Innovative inserts that reduce ovality in pipe and fittings
- Heater pivots 180º so the machine, pipe and fitting never has to be repositioned
- Jaws clamp individually and are size independent, allowing a greater combination of pipe and fittings
- Outer jaw spacing is adjustable – allowing greater flexibility, support and alignment while fusing fittings and assemblies
- Outer fixed jaw is removable for added clearance
- Positive stop at full stab depth to fabricate at exact dimensions
- Rack and pinion drive provides smooth, steady fusion force
- Drive handle positioned so that unit can operate on any flat surface

Note:
- Includes 20-125mm heater adapter, adapter storage box and shipping container
- Must specify DVS Type A, B or IPS
Socket Welding PREP Tool

**Peel**

**Remove**

**Edge**

**Plane**

Required for all socket welding of Proline®, PolyPure®, Chem Proline® and Air-Pro®

Natural oxidation occurs on polyolefin thermoplastics and must be removed in order to achieve the best bonding between pipe and socket fittings. Asahi’s PREP tool effortlessly removes oxidation while planing and adds a bevel to the insertion face of the pipe. An added benefit of the one-step process is the marking of the desired insertion depth.

### Features
- Quickly “PREP” pipe for socket welding
- Easy-to-use, impossible to misuse
- Marks insertion depth directly on pipe
- Maintenance-free operation
- Completely removes surface oxidation from PE, PP
- Reduces installation time with only one operation
- In accordance with DVS Type B socket standards used on Proline®, PolyPure®, Chem Proline® and Air-Pro®

### Peel, Remove, Edge, Plane

**Socket Welding**

**PREP Tool**

Required for all socket welding of Proline®, PolyPure®, Chem Proline® and Air-Pro®

Natural oxidation occurs on polyolefin thermoplastics and must be removed in order to achieve the best bonding between pipe and socket fittings. Asahi’s PREP tool effortlessly removes oxidation while planing and adds a bevel to the insertion face of the pipe. An added benefit of the one-step process is the marking of the desired insertion depth.

### Complete Kit

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mm-63mm Kit</td>
<td>581156000</td>
</tr>
</tbody>
</table>

### Complete Kit includes:
- 20mm-63mm PREP tools with blades
- Manual handles (2 piece)
- Driver nut
- Storage case

### Hand Unit

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>20</td>
<td>1/2</td>
</tr>
<tr>
<td>25</td>
<td>3/4</td>
</tr>
<tr>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>1-1/4*</td>
</tr>
<tr>
<td>50</td>
<td>1-1/2*</td>
</tr>
<tr>
<td>63</td>
<td>2*</td>
</tr>
</tbody>
</table>

*Includes 2 pc handle set

### Spare Blades (ea)

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>20</td>
<td>1/2</td>
</tr>
<tr>
<td>25</td>
<td>3/4</td>
</tr>
<tr>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>1-1/4</td>
</tr>
<tr>
<td>50</td>
<td>1-1/2</td>
</tr>
<tr>
<td>63</td>
<td>2</td>
</tr>
</tbody>
</table>

*Includes 2 pc handle set
Polymatic*

Electrofusion Welder

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size Range</strong></td>
<td>All electrofusion fittings up to 48 volt</td>
</tr>
<tr>
<td><strong>Piping</strong></td>
<td>Single wall</td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td>PE, PP</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>110V</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>16”x13”x13”</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>50 lbs.</td>
</tr>
<tr>
<td><strong>Shipping Dimensions</strong></td>
<td>48”x40”x24”</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>120 lbs.</td>
</tr>
</tbody>
</table>

**Features**
- Barcode gun reads fitting label
- Safe and reliable fusion
- Tough thermoplastic housing that resists damage due to moisture
- Ideal for shop or field operation

**Note:**
- Requires couplings (see pages 24-25)
- Not for use with PVDF, EF/HPF couplings
- Scraper is included with rental, must specify size (see page 15)

*Scraper is included with rental, must specify size (see page 15)

XTR400*

Electrofusion Welder

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size Range</strong></td>
<td>20mm - 400mm (1/2” - 16”)</td>
</tr>
<tr>
<td><strong>Piping</strong></td>
<td>Single wall</td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td>PE, PP</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>110V</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>20”x17”x9”</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>50 lbs.</td>
</tr>
<tr>
<td><strong>Shipping Dimensions</strong></td>
<td>20”x17”x9”</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>50 lbs.</td>
</tr>
</tbody>
</table>

**Features**
- Barcode gun reads fitting label
- USB input for downloading up to 500 complete welds
- Large display with easy manual input

**Note:**
- Requires couplings (see pages 24-25)
- Not for use with PVDF, EF/HPF couplings
- Scraper is included with rental, must specify size (see page 15)

*Scraper is included with rental, must specify size (see page 15)
**Pipe Beveller SME-1**

**Part Number 5686003**

**Beveling Tool**

The SME-1 tool is ideal for beveling the ends of plastic pipe up to 63mm (2") that will be inserted into a socket fusion fitting.

Size range 32mm-125mm (1" - 4-1/2")

Note: Beveller used in place of PREP tool after mechanical scraping is performed.

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**Rotational Scrapers**

**PFR 110 - Part Number 5831110**

**PFR 225 - Part Number 5832225**

**Electrofusion Scraping Tool**

Asahi/America offers a wide range of scraping tools for a variety of sizes and applications. Please consult us for the best recommendation.

**Size Ranges**

<table>
<thead>
<tr>
<th>Tool</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFR 110</td>
<td>20mm - 125mm (1/2&quot; - 4-1/2&quot;)</td>
</tr>
<tr>
<td>PFR 225</td>
<td>90mm - 225mm (3&quot; - 9&quot;)</td>
</tr>
</tbody>
</table>

**Features**

- Adjustable depth
- Self-feeding

Example of scraped pipe
Hot Air Welder

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>21&quot;x27&quot;x19&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>5 lbs.</td>
</tr>
<tr>
<td>Shipping Dimensions</td>
<td>21&quot;x27&quot;x19&quot;</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>5 lbs.</td>
</tr>
<tr>
<td>Options</td>
<td></td>
</tr>
<tr>
<td>• Various sizes and style tips available</td>
<td></td>
</tr>
<tr>
<td>• Tri-tip for 5x7mm triangular welding rod</td>
<td></td>
</tr>
<tr>
<td>available with tool part number</td>
<td></td>
</tr>
<tr>
<td>- purchase (5638005)</td>
<td></td>
</tr>
<tr>
<td>- rental (9638005)</td>
<td></td>
</tr>
</tbody>
</table>

Features
- Built-in motor with air cooler
- Adjustable from 20 - 600°F (68 - 1112°F)
- Ideal for light fabrication
- Supplied with combo speed tacking tip 4mm round (5/32")

Extrusion Welder

<table>
<thead>
<tr>
<th>Size Range</th>
<th>3mm-5mm (1/8&quot; - 3/16&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>PE, PP, PVDF</td>
</tr>
<tr>
<td>Power</td>
<td>230V</td>
</tr>
<tr>
<td>Plug Provided</td>
<td>L6-20P</td>
</tr>
<tr>
<td>Dimensions</td>
<td>35&quot;x28&quot;x13&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>Shipping Dimensions</td>
<td>48&quot;x40&quot;x19&quot;</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>150 lbs.</td>
</tr>
</tbody>
</table>

Features
- Built-in motor with variable welding speed
- Ideal for fabrication of PP, PE and PVDF
- Includes DT-10 blower
Welding Equipment Catalog #WEC-18

SP 110-S V3

Purchase Part Number 5863001
Rental Part Number 9863001

Fully Automated IR Butt Welding Tool

Size Range
20mm - 110mm (1/2” - 4”)

Piping
Single and Double Wall

Materials
PP, PPn, PVDF, PE 100-RC, ECTFE, PFA

Power
Transformer Plug: 110V
Tool: 230V / 15A

Dimensions
30”x52”x37”

Weight
550 lbs.

Shipping Dimensions
30”x61”x43”

Shipping Weight
835 lbs.

Features
• Increased automation with 10% time savings
• Integrated tool work box and bench
• New planer position provides greater weld area access
• New power transformer provides added protection
• Latest electronic hardware and bigger touch screen
• Increased weld data storage to 20,000 weld logs
• Smartphone app for weld data
• Additional data fields on weld labels
• Poly-Flo® double wall weld parameters

Options
• PFA capable tool

Fully Automated Welding Process

Full View of Welding Area

Magnetic Clamp Inserts
**SP 110-S**

**Fully Automated IR Butt Welding Tool**

- Size Range: 20mm - 110mm (1/2" - 4")
- Piping: Single wall
- Materials: PP, PPn, PVDF, ECTFE
- Power: Transformer Plug: 110V, Tool: 230V / 15A
- Dimensions: 27”x33”x27”
- Weight: 180 lbs.
- Shipping Dimensions: 60”x39”x43”
- Shipping Weight: 675 lbs.

**Features**
- Automated planing depth feature
- Automated fusion process
- Internal validation program
- Printer and cleanroom labels
- Ideal for shop operation
- New power transformer for added protection

**Options**
- PFA capable tool
- SP 110-S operator card

*Limited availability please consult factory*

**Purchase Part Number 5861001**

**Rental Part Number 9861001**

---

**SP 63-S Mobile**

**Remote IR Butt Welding Tool**

- Size Range: 20mm - 63mm (1/2" - 2")
- Piping: Single wall
- Materials: PP, PPn, PVDF
- Power: Transformer Plug: 110V, Tool: 230V / 15A
- Dimensions: 22”x15”x13”
- Weight: 70 lbs.
- Shipping Dimensions: 48”x40”x37”
- Shipping Weight: 500 lbs.

**Features**
- Compact design for tight spaces
- Removable from base
- Force controlled welding
- Automated clamp movement and control
- Printer and cleanroom labels
- New power transformer for added protection

**Note:**
- Recommended for final tie-ins only.

**Purchase Part Number 5861063**

**Rental Part Number 9861063**

---
Welding Equipment Catalog #WEC-18

SP 250-S

Fully Automated IR Butt Welding Tool

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Automated planing depth feature</td>
<td></td>
</tr>
<tr>
<td>Automated fusion process</td>
<td></td>
</tr>
<tr>
<td>Internal validation program</td>
<td></td>
</tr>
<tr>
<td>Printer and cleanroom labels</td>
<td></td>
</tr>
<tr>
<td>Ideal for shop operation</td>
<td></td>
</tr>
<tr>
<td>SP 250-S operator card</td>
<td></td>
</tr>
<tr>
<td>208V to 400V power converter included. (see page 20)</td>
<td></td>
</tr>
</tbody>
</table>

**Size Range**  
110mm - 250mm (4” - 10”)

**Piping**  
Single wall

**Materials**  
PP, PVDF

**Power**  
208V / 3ph / 30A

**Dimensions**  
37”x56”x56”

**Weight**  
1550 lbs.

**Shipping Dimensions**  
39”x58”x57”

**Shipping Weight**  
1650 lbs.

---

SP 315-S

Fully Automated IR Butt Welding Tool

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
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<td>Automated planing depth feature</td>
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<td>Automated fusion process</td>
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<td>Internal validation program</td>
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</tr>
<tr>
<td>Printer and cleanroom labels</td>
<td></td>
</tr>
<tr>
<td>Ideal for shop operation</td>
<td></td>
</tr>
<tr>
<td>SP 315-S operator card</td>
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</tr>
<tr>
<td>208V to 400V power converter included. (see page 20)</td>
<td></td>
</tr>
</tbody>
</table>

**Size Range**  
110mm - 315mm (4” - 12”)

**Piping**  
Single wall

**Materials**  
PP, PVDF

**Power**  
208V / 3ph / 30A

**Dimensions**  
47”x67”x58”

**Weight**  
1650 lbs.

**Shipping Dimensions**  
48”x68”x57”

**Shipping Weight**  
1825 lbs.
Welding Equipment Catalog #WEC-18

Power Transformer*

SP 250-S/SP 315-S Power Transformer - 15 KVA

Dimensions
26”x16”x21”
Weight
275 lbs.
Shipping Dimensions
40”x48”x27”
Shipping Weight
300 lbs.

Terms of usage
• Use with a dedicated line
• Must be wired by a licensed electrician
• Contact Asahi/America for further information on installation
• Must be ordered at time of tool rental
• Ideal for shop operation

Power
208V / 3ph / 30A

Required receptacle
208, 3 phase

Comes with NEMA L15-30P

Purchase Part Number 5869003
Rental Part Number 9869003

*Model shipped may differ from pictured unit above based on availability.
Beadless Welding Fusion Machine

- Internal validation program
- Provides several QA sources
- Printer and cleanroom labels
- Ideal for shop operation
- 110 - 230 VAC power converter

Features

Size Range: 20mm - 110mm (1/2" - 4")
Piping: Single wall
Materials: PP, PPn, PVDF
Power:
  - Transformer Plug: 110V
  - Tool: 230V / 15A

Dimensions: 27"x36"x34"
Weight: 225 lbs.
Shipping Dimensions: 69"x39"x43"
Shipping Weight: 725 lbs.

Notes:
Requires balloons for PP or PVDF (see page 23)
SP 110-B machine requires specific size head to operate.
Please consult chart below for sizes and part numbers.

---

SP 110-B Beadless Heads

<table>
<thead>
<tr>
<th>Size</th>
<th>Purchase Part Number</th>
<th>Rental Part Number</th>
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<tr>
<td>mm</td>
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<td>5786150</td>
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<td>63</td>
<td>2</td>
<td>5786163</td>
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<tr>
<td>75</td>
<td>2-1/2</td>
<td>5786175</td>
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<tr>
<td>90</td>
<td>3</td>
<td>5786190</td>
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<tr>
<td>110</td>
<td>4</td>
<td>5786111</td>
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</tbody>
</table>
Beadless Electrofusion

Size Range: 20mm - 63mm (1/2” - 2”)

Piping: Single wall

Materials: PVDF

Power:
- Plug: 110V
- Tool: 230V / 15A

Dimensions: 17”x12”x12”

Weight: 35 lbs.

Shipping Dimensions: 48”x40”x37”

Shipping Weight: 475 lbs.

Features:
- Ideal for final remote tie-in welds
- Uses HPF couplings
- Weld with or without balloons
- 25’ leads available upon request
- Control unit
- 110 - 230 VAC power converter
- Planer, clamp, base and storage case

Required:
- PVDF couplings (see page 24)
- Balloons available in 9 sizes (see page 23)

Purchase Part Number: 5786200
Rental Part Number: 9786200
### Beadless Balloons

<table>
<thead>
<tr>
<th>Size</th>
<th>PP Balloons</th>
<th>Part Number</th>
<th>PVDF Balloons</th>
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<td>25</td>
<td>3/4</td>
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<td>1</td>
<td>5788410</td>
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<td>5788310</td>
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### Socket Heater Bushings

#### Asahitec™ Type A

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#### Proline® Type B

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<td>5797020</td>
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<tr>
<td>75</td>
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<td>5797030</td>
</tr>
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</table>
## Electrofusion Couplings

### Purad® PVDF EF/HPF Coupling

<table>
<thead>
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<th>Size (mm)</th>
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### Proline® PP Electrofusion Coupling

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<td>250</td>
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<td>315</td>
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## Electrofusion Couplings

### Chem Proline® Electrofusion Couplings

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<thead>
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### Air-Pro® Electrofusion Couplings

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<tr>
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<td>200</td>
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<td>250</td>
<td>5817100</td>
</tr>
<tr>
<td>315</td>
<td>5817120</td>
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</table>
# Welding Equipment Selection Guide

**Manual Machines**

<table>
<thead>
<tr>
<th>Welding machine</th>
<th>Miniplast®</th>
<th>Maxiplast®</th>
<th>Halar® 6 W900</th>
<th>Shop 12 W2500</th>
<th>Field 6 W4400</th>
<th>Field 6 LF for PVDF</th>
<th>Field 6 Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rental PN</td>
<td>9730000</td>
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<td>PRO150 PP-Pure® SDR11</td>
<td>1/2-4&quot;</td>
<td>1 1/2-6&quot;</td>
<td>1 1/2-9&quot;</td>
<td>1 1/2-6&quot;</td>
<td>50-160mm</td>
<td>50-225mm</td>
<td>3-10&quot;</td>
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<td>50-315mm</td>
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<td>50-125mm</td>
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<td>50-200mm</td>
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<td>Climatec™</td>
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<td>20-110mm</td>
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<td>2x4-3x6&quot;</td>
<td>2x4-4x8&quot;</td>
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<td>Poly-Flo® PPR</td>
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<td>1x1.5-4x6&quot;</td>
<td>1x1.5-4x6&quot;</td>
<td>2x3-4x8</td>
<td>63x110-110x200</td>
<td>63x110-90x160</td>
<td>4 x 6</td>
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<tr>
<td>Poly-Flo® PE100RC</td>
<td>1x1.5-2x3&quot;</td>
<td>1x1.5-4x6&quot;</td>
<td>1x1.5-4x6&quot;</td>
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<td>63x110-110x200</td>
<td>63x110-90x160</td>
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<td>3x2x4&quot;</td>
<td>2x4-3x6&quot;</td>
<td>2x4-4x8&quot;</td>
<td>2x4-3x6&quot;</td>
<td>63x110-90x160</td>
<td>63x110-90x160</td>
<td>4x8-6x10&quot;</td>
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<tr>
<td>Fluid-Lok® HDPE IPS SDR11x11</td>
<td>*1x3</td>
<td>*1x3-</td>
<td>*2x4</td>
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<td>2x4</td>
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<td>Fluid-Lok® HDPE IPS SDR11x17 and higher</td>
<td>*1x3</td>
<td>*1x3-</td>
<td>*2x4-</td>
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<td>4x8</td>
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<td>1-4&quot;</td>
<td>1-10&quot;</td>
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**Hydraulic Machines**

<table>
<thead>
<tr>
<th>Welding machine</th>
<th>Miniplast®</th>
<th>Maxiplast®</th>
<th>Halar® 6 W900</th>
<th>Shop 12 W2500</th>
<th>Field 6 W4400</th>
<th>Field 6 LF for PVDF</th>
<th>Field 6 Repair</th>
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</table>
## Welding Equipment Selection Guide

### Hydraulic Machines

<table>
<thead>
<tr>
<th>Welding machine</th>
<th>Field 12 Repair</th>
<th>Field 12 W4900</th>
<th>Widos 4001 (Shop Tool)</th>
<th>Widos 4002 (Shop Tool)</th>
<th>Field 12 IPS</th>
<th>Field 20 W5500</th>
<th>Field 24 W6100</th>
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<td>PRO150 PP-Pure SDR11</td>
<td>3-12&quot; 90-315mm</td>
<td>3-12&quot; 90-315mm</td>
<td>3-12&quot; 90-315mm</td>
<td>3-12&quot; 90-315mm</td>
<td>8-20&quot; 200-500mm</td>
<td>12-24&quot; 315-630mm</td>
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<tr>
<td>PRO45 PP SDR33</td>
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<td>3-12&quot; 90-315mm</td>
<td>3-12&quot; 90-315mm</td>
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<td>Asahitec™ Solid Wall SDR 7.4</td>
<td>3&quot;-4-1/2&quot; 90-125mm</td>
<td>3&quot;-4-1/2&quot; 90-125mm</td>
<td>3&quot;-4-1/2&quot; 90-125mm</td>
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<tr>
<td>Asahitec™ Solid Wall SDR 11</td>
<td>3&quot;-10&quot; 90-250mm</td>
<td>3&quot;-12&quot; 90-315mm</td>
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<td>12-20&quot; 315-500mm</td>
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<td>Climatec™</td>
<td>3&quot;-10&quot; 90-250mm</td>
<td>3&quot;-12&quot; 90-315mm</td>
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<td>8&quot;-20&quot; 200-500mm</td>
<td>12-20&quot; 315-500mm</td>
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<td>Air-Pro®/PE100 SDR11 Butt</td>
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<td>8-20&quot; 200-500mm</td>
<td>12-24&quot; 315-630mm</td>
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<td>Chem Proline® SDR11 Butt</td>
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<td>3-12&quot; 90-315mm</td>
<td>8-20&quot; 200-500mm</td>
<td>12-24&quot; 315-630mm</td>
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<td>Super Proline®/Purad® PVDF SDR21 20-280mm/ SDR33 63-400mm</td>
<td>3-12&quot; 90-315mm</td>
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<td>8-20&quot; 200-500mm</td>
<td>12-24&quot; 315-630mm</td>
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<tr>
<td>Ultra Proline® Halar® (ECTFE) * with Halar mirror</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
<td>8x12-12x16&quot; 200x315-315x550</td>
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<tr>
<td>Duo-Pro® Pro150x150 SDR11x11</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
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<td>Duo-Pro® Pro150x45 SDR11x33</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
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<td>8x12-16x20&quot; 200x315-400x500</td>
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<tr>
<td>Duo-Pro® Pro45x45 SDR33x33</td>
<td>4x8-8x12&quot; 110x200-200x315</td>
<td>4x8-8x12&quot; 110x200-200x315</td>
<td>4x8-8x12&quot; 110x200-200x315</td>
<td>8x12-16x20&quot; 200x315-400x500</td>
<td>315x400-500x630</td>
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<td>Poly-Flo® PPR</td>
<td>4 x 6 110-160mm</td>
<td>4 x 6 110-160mm</td>
<td>4 x 6 110-160mm</td>
<td>8x-12x8x12 80-300</td>
<td>12x16-20x24&quot; 315x400-500x630</td>
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<td>Poly-Flo® PE100RC</td>
<td>4 x 6 110-160mm</td>
<td>4 x 6 110-160mm</td>
<td>4 x 6 110-160mm</td>
<td>8x-12x8x12 80-300</td>
<td>12x16-20x24&quot; 315x400-500x630</td>
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<tr>
<td>Chem Prolok® SDR11x11 and 11x33</td>
<td>4x8-8x12&quot; 110x200-200x315</td>
<td>4x8-8x12&quot; 110x200-200x315</td>
<td>3x6-8x12&quot; 90x160-200x315</td>
<td>8x12-12x16&quot; 200x315-315x550</td>
<td>315x400-500x630</td>
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</tr>
<tr>
<td>*32x90 available in 11x11, other sizes are 11x33 as standard</td>
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<td></td>
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</tr>
<tr>
<td>Fluid-Lok® HDPE IPS SDR11x11</td>
<td>3x6-8x12 8x-12 80-300</td>
<td>3x6-8x12 8x-12 80-300</td>
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<td>8x12-12x16&quot; 200x315-315x550</td>
<td>315x400-500x630</td>
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<tr>
<td>* with IPS clamp inserts</td>
<td>3x6-8x12 8x-12 80-300</td>
<td>3x6-8x12 8x-12 80-300</td>
<td>3x6-8x12 8x-12 80-300</td>
<td>8x12-12x16&quot; 200x315-315x550</td>
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<td>Fluid-Lok® HDPE IPS SDR11x17 and higher</td>
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<td>315x400-500x630</td>
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<td>* with IPS clamp inserts</td>
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<td>3-12&quot; 90-315mm</td>
<td>8-12x16 200x315-315x550</td>
<td>315x400-500x630</td>
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<tr>
<td>* with IPS clamp inserts</td>
<td>3-10&quot; 90-315mm</td>
<td>3-10&quot; 90-315mm</td>
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<td>8-12x16 200x315-315x550</td>
<td>315x400-500x630</td>
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* with IPS clamp inserts
## Spare Parts

### Planer Blades

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<thead>
<tr>
<th>Tool</th>
<th>Unit of Measure</th>
<th>Part Number</th>
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<tbody>
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<td>Miniplast®</td>
<td>2 pc -set</td>
<td>5720002</td>
</tr>
<tr>
<td>Maxiplast®</td>
<td>4 pc -set</td>
<td>5622005</td>
</tr>
<tr>
<td>4&quot; Bench Socket Beveler</td>
<td>1 pc</td>
<td>5711001</td>
</tr>
<tr>
<td>Shop 12</td>
<td>4 pc -set</td>
<td>5609120</td>
</tr>
<tr>
<td>Shop 12 Hydraulic</td>
<td>4 pc -set</td>
<td>5761140</td>
</tr>
<tr>
<td>Field 6</td>
<td>2 pc -set</td>
<td>5761060</td>
</tr>
<tr>
<td>Field 10</td>
<td>2 pc -set</td>
<td>5761110</td>
</tr>
<tr>
<td>Field 12</td>
<td>2 pc -set</td>
<td>5761120</td>
</tr>
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<td>Field 14</td>
<td>4 pc -set</td>
<td>5761140</td>
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<td>Field 20</td>
<td>4 pc -set</td>
<td>5761130</td>
</tr>
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<td>Field 24</td>
<td>4 pc -set</td>
<td>5761150</td>
</tr>
<tr>
<td>SP 63-S / EF 110-B</td>
<td>4 pc -set</td>
<td>5874063</td>
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<td>SP 110-S / V3</td>
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<td>SP 250-S</td>
<td>2 pc -set</td>
<td>5874250</td>
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<tr>
<td>SP 315-S</td>
<td>2 pc -set</td>
<td>5874315</td>
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<tr>
<td>Polymatic / PF Rotate Scrapers</td>
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### SP Tool Accessories

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<td>Printer Ribbon</td>
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<tr>
<td>RFID/Bar Code Operator Card</td>
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<td>5786104</td>
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</table>

Consult factory for sizes or SDR's not listed prior to ordering tool. 355mm metric and 14" IPS clamps are same size.
Welding Equipment Catalog #WEC-18

Welding Equipment Rental Policy

All rental equipment requires a rental agreement to be signed and completed at the time of order prior to shipping. Rental agreement is to be signed by distributor only.

Please allow 4-5 days from receipt of PO to process all rental equipment orders for shipment.

Freight: Customer pays freight from factory to the job site and job site to factory. NO exceptions. Asahi will attempt to combine machines with freight allowed pipe orders but won’t guarantee this service.

Rental Rates:
• Daily Rates-Are per day, includes weekends or National holidays.
• Weekly Rates-Are per calendar week or any part of it. Prorated for partial weeks.
• Monthly Rates-Calendar month, prorated for partial month.
• Rental billing starts upon receipt of delivery.
• Rental stops the day equipment is loaded on the return truck.

Asahi/America Welding Equipment Freight Insurance Policy Clarification

Due to the high value of these machines, and the sensitivity of the computers and electronics on them, damage during transportation can become very expensive. Asahi/America recommends insuring all welding equipment to the full replacement value and always accept the package from freight carriers with “possible concealed damage”.

The condition of the welding equipment is the responsibility of Asahi until it leaves our facility. All rental and purchased equipment is photographed as packaged for freight pick up. Asahi is not responsible for the condition of the tool upon arrival on site. Asahi will offer customer assistance with procuring this machine insurance at time of order if requested. Customers can also choose their own carriers and insurance companies at time of order, at their cost.

All welding tools/machines are FOB Lawrence MA, regardless of whether they are for purchase or rental. All freight costs for all machines are the responsibility of the customer. This includes to and from the job site for rental equipment.

Asahi is always willing to work with our customers to keep costs down in today’s competitive market. Tool freight costs can be minimized if tools ship with material orders that meet the standard “freight allowed” policy. (Tools ship with orders based on availability) Insurance protocols will still be in effect for automated tools even if shipped with material orders.

If you have any questions regarding this policy please contact your District Manager, or call Customer Service at our Lawrence, MA headquarters at 1-800-343-3618.
Availability: Proweld® equipment is available for rental to authorized distributors only. Please allow up to 5 days from receipt of order confirmation to prepare and ship rental equipment. Availability is not guaranteed.

New Orders: Purchase orders must include start date and expected duration. Each new order requires a signed rental agreement prior to equipment shipment.

Rental Billing: Billing starts when the tool is delivered and ends upon proof of return shipment is provided or the equipment arrives at Asahi. Charges are processed monthly and billed according to quoted rental rates.

- Daily: Monday through Sunday, including holidays
- Weekly: calendar week, prorated for rentals longer than 1 week
- Monthly: calendar month, prorated for rentals longer than 1 month

Freight: Insured transportation on all outgoing and incoming rental equipment must be provided by the distributor. Equipment may be combined with other shipments to reduce overall cost. If outgoing shipment is freight allowed, Asahi will only charge for additional insurance if not already covered. Please inspect delivered equipment for damage upon receipt from the freight company. Failure to identify freight damage will transfer liability from the freight company to the distributor.

Consumables: All consumable items must be purchased. These items include, but are not limited to printer labels and ribbon, beadless balloons, planer blades.

Warranty: Please call Asahi immediately if the equipment is not operating properly. Routine maintenance is recommended every six months. Equipment may be field serviced by Asahi authorized personnel or returned to Asahi. All freight and/or field service charges must be paid for by the distributor.

Jobsite Transfer: Equipment transfer between jobs is not allowed. Written approval must be given by Asahi and a new signed rental agreement must be completed. No warranty can be provided for equipment not originating from Asahi’s facility.

Damage: An initial evaluation upon return will identify any abnormal damage. Equipment requiring excessive cleaning and/or repair will be billed at current shop labor rates. Broken or missing components will be billed at current replacement costs. Customers may be billed for the entire cost of new equipment if returned equipment is unrepairable. Damaged equipment will be disposed of by Asahi or returned to customer upon request.

Please fill out and return the signed agreement to: fax (978) 686-2391 or jmartignetti@asahei-america.com
Asahi’s current Proweld® agreement and additional information can be obtained from www.Asahe-America.com/Rental

Project Name: 

Contractor: 

Materials: 

Trainer: 

Sizes: 

Training Date: 

I hereby understand and accept all terms and conditions,

Distributor Name: 

Signature: 

Date:
Welding Equipment Catalog #WEC-18

Asahi Pipe and Fittings Warranty

WARRANTY AND LIMITATIONS
1.1 These Limited Representations and Warranties are applicable to all end-customers purchasing Asahitec pipe and fittings manufactured by AGRU - Kunststofftechnik GmbH and are subject to Asahi’s standard Terms and Conditions of sale. Asahi warrants that for the warranty period, the products will be free from defects in materials and workmanship under normal and proper use, and will conform to manufacturer published specifications. This warranty is subject to the proper storage, handling, transportation, installation, use and maintenance of the products by both the installer and final customer. This warranty does not include defects due to normal wear and tear or deterioration.

1.2 Customer shall provide written notice of any non-conformities or visible defects regarding the products within 14 business days of discovery. Failure to provide prompt notice shall void this warranty.

1.3 The sole obligation under the foregoing warranty is, at Asahi’s discretion, to repair, to replace or exchange the product or to refund the purchase price. Any repaired, replaced or exchanged products shall be subject to the warranty set forth in 1.1 following the repair, the replacement or the exchange. If the Company has received notification from customer, and no defects of the product could be discovered, customer shall bear the costs that the company incurred as a result of the notice.

1.4 The company also makes no warranty that the supply of custom fabricated products manufactured according to customer’s specification do not infringe upon the intellectual property or other proprietary rights of any third party and customer is solely responsible for assuring that such products do not so infringe.

1.5 The “warranty period” for all Pipe and Fittings shall be 1 year from the date of invoice. Installation of Pipe and Fitting products must be performed by a properly trained and qualified installer utilizing proper welding equipment.

1.6 The Company does not authorize any person or party to assume or create for it any other obligation or liability in connection with the products except as set forth herein.

1.7 All requests and notices under this warranty shall be directed to:

Asahi/America, Inc.
Attn: Customer Service
655 Andover Street,
Lawrence, MA 01843
Tel: 781-321-5409 • Fax: 978-685-3010