CHEMLINE PLASTICS
SUPERIOR FLOW SOLUTIONS

| PP-RCT & HDPE WELDING MACHINES & TOOLS |

chemline.com
## Welding Machine Size Range & Selection Tool

<table>
<thead>
<tr>
<th>Imperial</th>
<th>Metric</th>
<th>Contact Socket Fusion</th>
<th>Contact Butt Fusion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IPS inches</td>
<td>OD</td>
<td>Metric Pipe OD (mm)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.94</td>
<td>21.34</td>
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<tr>
<td>3/4&quot;</td>
<td>1.05</td>
<td>26.67</td>
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<tr>
<td>1&quot;</td>
<td>1.32</td>
<td>33.40</td>
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<tr>
<td>1-1/4&quot;</td>
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<td>1-1/2&quot;</td>
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<td>2-1/2&quot;</td>
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<td>3&quot;</td>
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<td>16&quot;</td>
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<tr>
<td></td>
<td>-</td>
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### Rental Rates

<table>
<thead>
<tr>
<th>Time</th>
<th>Daily</th>
<th>Weekly</th>
<th>Monthly</th>
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<tr>
<td>Daily</td>
<td>30.00</td>
<td>50.00</td>
<td>90.00</td>
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<tr>
<td>Weekly</td>
<td>120.00</td>
<td>200.00</td>
<td>360.00</td>
</tr>
<tr>
<td>Monthly</td>
<td>360.00</td>
<td>600.00</td>
<td>1,080.00</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Tool</th>
<th>Pipe size (mm)</th>
<th>daily rental</th>
<th>weekly rental</th>
<th>monthly rental</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustable Rollerstand</td>
<td>20 - 315</td>
<td>20.00</td>
<td>60.00</td>
<td>220.00</td>
<td>10</td>
</tr>
<tr>
<td>Pipe Chamfering Tool 1</td>
<td>16 - 75</td>
<td>20.00</td>
<td>60.00</td>
<td>180.00</td>
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<tr>
<td>Pipe Chamfering Tool 2</td>
<td>32 - 250</td>
<td>25.00</td>
<td>75.00</td>
<td>225.00</td>
<td>10</td>
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<td>315 Rotation Saw</td>
<td>110 - 315</td>
<td>100.00</td>
<td>380.00</td>
<td>1,150.00</td>
<td>11</td>
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<tr>
<td>Outside Debeader</td>
<td>110 - 160</td>
<td>10.00</td>
<td>30.00</td>
<td>110.00</td>
<td>11</td>
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<tr>
<td>Outside Debeader</td>
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<td>45.00</td>
<td>165.00</td>
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<tr>
<td>JIG Socket Tool</td>
<td>63 - 170</td>
<td>90.00</td>
<td>360.00</td>
<td>1,080.00</td>
<td>5</td>
</tr>
</tbody>
</table>

¹ Available in all socket formats. See socket welder data pages. ² May require use of the JIG socket tool.

**Key:** ✓ Conversion main clamp kit for imperial pipe, upon request
- DA range – metric pipe
- Both ranges overlap (with special parts for imperial pipe, upon request)

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Conversion main clamp kit for imperial pipe, upon request
- DA range – metric pipe
- Both ranges overlap (with special parts for imperial pipe, upon request)
Contact Socket Fusion
Handheld Welder 1

The **Handheld** contact socket fusion welder is a welding machine for the heating element socket welding of PE, PP and PVDF pipe and fittings from OD 20 to OD 63mm (1/2" to 2") in the workshop and in the field. It has removable male/female heating dies for different pipe sizes.

The Handheld welder comes with a table clamp for hands-free operation and an adapter for floor use. The electronically controlled heating element has an anti-stick coating and control lamps for system and interval checking. Temperature adjustment is integral to the heater handle. Timing of the welding operation is read off manual welding tables. The pipe chamfering tool makes assembly easier and inner beads smaller. A sheet steel box serves for the transport and the protected storage of the complete handheld contact socket fusion welding kit.

**features**

- Ideal for PE, PP and PVDF socket butt fusion piping systems
- Lightest welding tool available
- Convenient table clamp
- Imperial die sets available upon request

**welder kit components**

<table>
<thead>
<tr>
<th>Welding Machine</th>
<th>Handheld Socket Fusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating element</td>
<td>✓</td>
</tr>
<tr>
<td>Table-top clamp</td>
<td>✓</td>
</tr>
<tr>
<td>Floor use adaptor</td>
<td>✓</td>
</tr>
<tr>
<td>Metal carrying case</td>
<td>✓</td>
</tr>
<tr>
<td>Instruction manual</td>
<td>✓</td>
</tr>
<tr>
<td>Socket die bolts</td>
<td>✓</td>
</tr>
<tr>
<td>13mm nut driver (1)</td>
<td>✓</td>
</tr>
<tr>
<td>6mm allen key (1)</td>
<td>✓</td>
</tr>
<tr>
<td>M8x50mm socket head bolt</td>
<td>✓</td>
</tr>
<tr>
<td>M8 Nut (2)</td>
<td>✓</td>
</tr>
<tr>
<td>Pipe cutter</td>
<td>✓</td>
</tr>
<tr>
<td>Pipe chamfering tool</td>
<td>✓</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Socket Die Sets 20-63 mm (1/2&quot; to 2&quot;)</th>
<th>Handheld Socket Fusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>25mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>32mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>40mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>50mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>63mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>Shipping weight kg/lbs.</td>
<td>6.8/14.9</td>
</tr>
<tr>
<td>Crate size cm</td>
<td>46x36x14</td>
</tr>
</tbody>
</table>

1 Optional, extra charge
2 Socket type must be determined when ordering. Socket types are:
   - "A" = ASTM "A" metric
   - "PS" = DVS type "A" metric
   - "SC" = DVS type "B" metric
   - "NS" = IPS
Contact Socket Fusion Handheld Welder 2

**Welder Components**

- Heating element
- Table-top clamp
- Floor use adaptor
- Metal carrying case
- Instruction manual
- Socket die bolts
- 13mm nut driver (1)
- 6mm allen key (1)
- M8x50mm socket head bolt
- M8 Nut (2)
- Pipe cutter
- Pipe chamfering tool

**Socket Die Sets 75-125 mm (2-1/2” to 5”)**

<table>
<thead>
<tr>
<th>Socket Size</th>
<th>Handheld Socket Fusion</th>
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<tbody>
<tr>
<td>75mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>90mm socket die set</td>
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</tr>
<tr>
<td>110mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>125mm socket die set</td>
<td>✓</td>
</tr>
<tr>
<td>Shipping weight kg/lbs.</td>
<td>14.0/30.0</td>
</tr>
<tr>
<td>Crate size cm</td>
<td>53x41x16</td>
</tr>
</tbody>
</table>

The **Handheld** contact socket fusion welder is a welding machine for the heating element socket welding of PE, PP and PVDF pipe and fittings from OD 75 to OD 125mm (2-1/2” to 5”) in the workshop and in the field. It has removable male/ female heating dies for different pipe sizes.

The Handheld welder comes with a table clamp for hands-free operation and an adapter for floor use. The electronically controlled heating element has an anti- stick coating and control lamps for system and interval checking. Temperature adjustment is integral to the heater handle. Timing of the welding operation is read off manual welding tables. The pipe chamfering tool makes assembly easier and inner beads smaller. A sheet steel box serves for the transport and the protected storage of the complete handheld contact socket fusion welding kit.

**Features**

- Ideal for PE, PP and PVDF socket butt fusion piping systems
- Lightest welding tool available
- Convenient table clamp
- Imperial die sets available upon request

**Socket Type**

- “A” = ASTM “A” metric
- “PS” = DVS type “A” metric
- “SC” = DVS type “B” metric
- “NS” = IPS

1 Optional, extra charge

2 Socket type must be determined when ordering. Socket types are:

**Contact Socket Fusion Welder 2**

PE | PP | PE | PP-RCT | PP-RCT

**Sizes:** 75 – 125 mm (2-1/2” – 5”)

**Voltage:** 110 VAC /1 Plug
**JIG Socket Tool**

The **JIG Socket fusion tool** is designed for welding in place or in difficult to access areas. The JIG is equipped with a prismatic operating set of Master Clamps covering size ranges from 63mm to 170mm, movable fitting alignment plates to ensure proper installation in any position, fitting support bracket to fix fitting in place during fusion process, fast turning Screw Drive for quick, easy opening and closing in tight field positions. The light weight, rugged, design gives the capability to make socket welds in the toughest of places. The combination of being easy to handle and easy to use makes this tool a must have for contractors and installers putting together socket welded piping systems. Designed to weld pipe and socket fittings from OD 63 – OD 170 mm, it is operated with a cordless drill and 6mm allen wrench for fast, smooth operation during the welding process. Everything is packed in the rugged, wheeled, carrying case that is easy to transport, protects the tool and built to last.

The newly revised JIG Tool featuring the new Hand Wheel and newly designed hex drive screws. This new light weight accessory allows to operate the tool in tight field positions. It also controls the amount of pressure that can be applied to the face of the fitting, thereby preventing ovalization of the fitting that is being welded and assuring a good weld. The new design of the hex drive screws allows for optimal operation by giving the installer the option of using both a cordless drill or the manual hand wheel. The combination of being easy to handle and easy to use makes this tool a must have for contractors and installer putting together socket welded thermoplastic piping systems.

**welder kit components**

**Welding Machine 20-170 mm**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic machine</td>
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</tr>
<tr>
<td>Transport case</td>
<td>✔</td>
</tr>
<tr>
<td>Instruction manual</td>
<td>✔</td>
</tr>
<tr>
<td>Shipping weight kg/Lbs.</td>
<td>22.72/50</td>
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<tr>
<td>Crate size cm</td>
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</tr>
</tbody>
</table>

- Ideal for PE, PP and PVDF socket fusion piping systems
- Horizontal and vertical use
- Compact design
Contact Socket Fusion
W3511 Bench Welder

The W3511 bench socket fusion tool is ideal for socket fusion of larger diameter pipe and fittings. It is capable of socket welding PE, PP and PVDF pipes and fittings from OD 20mm to OD 125mm (1/2” to 5”) in the workshop or in the field. Special angled clamps simplify pipe and fittings clamping. A simplified process means little change out is required when switching sizes. Mechanical stops automatically set the socket depth for a perfect weld every time.

The supplied shipment crate doubles as a convenient stand for mounting the equipment.

features

- Ideal for PE, PP, PVDF and PPR socket fusion piping systems
- Motion of the slides is controlled by a rack-and-pinion mechanism
- Heating element is built into the machine
- Adjustable stops assure quality welds through size range
- Die sets available for various socket formats

welder kit components

<table>
<thead>
<tr>
<th>Basic element</th>
<th>Instruction manual</th>
<th>Socket die bolts</th>
<th>13mm nut driver (1)</th>
<th>6mm Allen key (1)</th>
<th>M8x50mm Socket head bolt</th>
<th>M8 Nut (2)</th>
<th>Shipping weight kg/lbs.</th>
<th>Crate size cm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90.4/200</td>
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</table>

Heater Die Sets* 20-125mm (1/2” to 5”)2

<table>
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<tr>
<th>20mm Heater inserts</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm Heater inserts</td>
<td>Optional</td>
</tr>
<tr>
<td>32mm Heater inserts</td>
<td>Optional</td>
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<tr>
<td>40mm Heater inserts</td>
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<tr>
<td>50mm Heater inserts</td>
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<tr>
<td>63mm Heater inserts</td>
<td>Optional</td>
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<tr>
<td>75mm Heater inserts</td>
<td>Optional</td>
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<tr>
<td>90mm Heater inserts</td>
<td>Optional</td>
</tr>
<tr>
<td>110mm Heater inserts</td>
<td>Optional</td>
</tr>
<tr>
<td>125mm Heater inserts</td>
<td>Optional</td>
</tr>
<tr>
<td>Pipe cutter</td>
<td>Optional</td>
</tr>
<tr>
<td>Pipe chamfering tool</td>
<td>Optional</td>
</tr>
</tbody>
</table>

* This tool will only function properly with specified Silverstone heater inserts. Heater inserts are included with tool purchased as a kit. If tool is rented, heater inserts are not included and must be purchased separately.

1 Optional, extra charge
2 Based on specific socket type, to be determined when ordering. Socket types are:
   “A” = ASTM “A” metric
   “PS” = DVS type “A” metric
   “SC” = DVS type “B” metric
   “NS” = IPS
The Maxiplast is a welding machine for heating element butt welding PE, PP, PVDF and ECTFE pipes and fittings from OD 50 to OD 160 mm (1-1/2” to 6”) in the workshop or in the field. It has two large aluminum pipe clamps which accept reducers for different pipe sizes, as well as two narrow fitting clamps for fittings with short legs. The clamps also swivel up to 15° on each side for the fabrication of segmented bends.

Due to the special construction of the pressure build-up device, the welder can be mounted directly onto very short pipe ends on walls or sheets. Due to its light and compact construction as well as due to the horizontal and vertical motion, the machine is ideally suited for use in pipeline systems and for installation work. In the case of stationary use, the Maxi can be fixed in a vice or in the table support. The light and compact removable manual planer is operated by means of a ratchet, and an electric planer is optional.

The electronically controlled heating element has an anti-stick coating and control lamps for system and interval checking. Temperature adjustment is integral to the Maxi heater handle. Timing of the welding operation is read off manual welding tables and pressure is applied via handwheel with built-in pressure scale. The electric planer has been optimized for easy handling. A heat-protected box is provided for the safe storage of the planer and the heating element. A wooden box serves for the transport and the protected storage of the complete Maxiplast welding kit. Optional split heating elements for dual-containment staggered welding in 1x3 (90mm/32mm), 2x4 (110mm/63mm) and 3x6 (160mm/90mm).

**features**
- Ideal for PE, PP, PVDF and ECTFE butt fusion piping systems
- Horizontal and vertical adjustment
- Compact design
- Ability to make angle welds
- Built in force gauge

### Welding Machine 50-160 mm

<table>
<thead>
<tr>
<th>Component</th>
<th>Max/Plast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic machine</td>
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<tr>
<td>Planer electric</td>
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<tr>
<td>Heating element</td>
<td>✔</td>
</tr>
<tr>
<td>Protection box</td>
<td>✔</td>
</tr>
<tr>
<td>CNC unit or SPA controller</td>
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</tr>
<tr>
<td>Control unit for IR heating element</td>
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</tr>
<tr>
<td>Table clamp</td>
<td>✔</td>
</tr>
<tr>
<td>Transport case</td>
<td>✔</td>
</tr>
<tr>
<td>Pipe support</td>
<td>✔</td>
</tr>
<tr>
<td>Instruction manual</td>
<td>✔</td>
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</tbody>
</table>

### Clamping Inserts 50-160 mm

<table>
<thead>
<tr>
<th>Insert Size</th>
<th>Max/Plast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe clamp set 160mm</td>
<td>✔</td>
</tr>
<tr>
<td>Fitting clamp set 160mm</td>
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</tr>
<tr>
<td>Reducer inserts 50mm</td>
<td>✔</td>
</tr>
<tr>
<td>Reducer inserts 63mm</td>
<td>✔</td>
</tr>
<tr>
<td>Reducer inserts 75mm</td>
<td>✔</td>
</tr>
<tr>
<td>Reducer inserts 90mm</td>
<td>✔</td>
</tr>
<tr>
<td>Reducer inserts 110mm</td>
<td>✔</td>
</tr>
<tr>
<td>Reducer inserts 125mm</td>
<td>✔</td>
</tr>
<tr>
<td>Reducer inserts 140mm</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Shipping Weight kg/lbs.**
- 72/159

**Crate size cm**
- 78x52x63
Contact Butt Fusion
W Series Welders

The **W Series** is a hydraulic welding machine for heating element butt welding PE, PP, PVDF and ECTFE pipes and fittings for use on building sites and in trenches. The pipe clamps accept reducers for different pipe sizes.

The W Series hydraulic welder is a double clamping machine with two pipe clamps fastened to the steel pipe frame on either side of the weld area, the fixed side and the movable side guided by hydraulic cylinders. The outer fixed side clamp and base can be easily detached in order to weld in badly accessible places, such as piping repair work in trenches or branches of T-pieces. The electro-hydraulic unit moves the right-hand clamps, controls the welding forces and has a pressure backup for supporting the welding force during the cooling down, using two quick-disconnect hoses attached to the movable side of the welder. It also has a pressure gauge for the exact indication of the pressure. The planer is operated by suspending in the welder guide shafts, has a housed chain drive, a security micro switch with lock and an automatic external chip removal. The electronically controlled heating element is also operated by suspending in the guide shafts, has an anti-stick coating, digital display, control lamps, an on/off switch and a connection cable with shock-proof plug. The built-in separating device prevents the heating element from sticking to the pipe after the heating process. Both the heater and planer plug into the electro-hydraulic control box for convenience, avoiding multiple extension cords.

A heat-protected box is provided for the safe storage of the planer and the heating element. A metal box serves for the transport and the protected storage of the complete W-Series welding kit.

Optional split heating elements for dual-containment staggered welding are available for model W4900 in 6x3 (160mm/90mm), 8x4 (200mm/110mm), 10x6 (250mm/160mm) and 12x8 (315mm/200mm). For model W5500 in 14x8 (350mm/200mm) and 16x10 (400/250mm).

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**features**

- Ideal for PE, PP, PVDF and ECTFE butt fusion piping systems
- Compact design, ideal for inside trenches
- Breaks down to 3 clamps for tight spaces
- Rugged frame for industrial applications
- Adjustable speed to control change over time
- Adjustable heating element temperatures
- Powerful planer with safety shut-off switch
- Can do vertical or horizontal welds

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**SERIES:** W

**MODEL:**
- W4400: 50 – 160mm (1-1/2" – 6")
- W4600: 75 – 250mm (2-1/2" – 10")
- W4900: 90 – 315mm (3" – 12")
- W5100: 200 – 500mm (8” – 20”)
- W5500: 200 – 500mm (8” – 20”)
- W6100: 315 – 630mm (12” – 24”)

**VOLTAGE:**
- W4400: 115 VAC/1 Phase/1 Plug
- W4600: 115 VAC/1 Phase/1 Plug
- W4900: 115 VAC/1 Phase/1 Plug
- W5100: 220 VAC/3 Phase/1 Plug
- W5500: 220 VAC/3 Phase/1 Plug
- W6100: 220 VAC/3 Phase/1 Plug
W Series Contact Butt Welders

## Welder Kit Components

<table>
<thead>
<tr>
<th>Welding Machine / Clamping Inserts</th>
<th>4/00</th>
<th>4/00</th>
<th>4/95</th>
<th>5/00</th>
<th>5/50</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity in mm</strong></td>
<td>50-160</td>
<td>75-250</td>
<td>90-315</td>
<td>200-500</td>
<td>200-500</td>
<td>315-630</td>
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<tr>
<td>Basic machine</td>
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<tr>
<td>Planer electric</td>
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<td>Heater/planer caddy</td>
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<td>CNC unit or SPA controller</td>
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<td>Electric hoist</td>
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<tr>
<td>Basic clamping tool</td>
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<td>✔️</td>
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<tr>
<td>Reducer inserts 50mm</td>
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<tr>
<td>Reducer inserts 63mm</td>
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<tr>
<td>Reducer inserts 110mm</td>
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<td>✔️</td>
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<tr>
<td>Reducer inserts 125mm</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Reducer inserts 140mm</td>
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<td>Reducer inserts 160mm</td>
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<td>Reducer inserts 250mm</td>
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<tr>
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<tr>
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<tr>
<td>Reducer inserts 500mm</td>
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<tr>
<td><strong>Shipping weight kg/lbs.</strong></td>
<td>44/97</td>
<td>45/99</td>
<td>106/234</td>
<td>145/320</td>
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<td><strong>Crate size cm</strong></td>
<td>84x84x57</td>
<td>95x85x57</td>
<td>123x83x57</td>
<td>183x145x125</td>
<td>183x148x125</td>
<td>228x160x140</td>
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</tbody>
</table>
Welder Tools

adjustable rollerstand

The adjustable rollerstands reduce the amount of force required to align pipes during welding. They are robust, resistant to dirt and easy to move with skid-plate bottoms similar to those on the W-series welders. They consist of two overlapped angled rollers which create a valley for stable support and easy movement of the piping. Rollerstands have large handles for easy moving or repositioning and can support up to 500 Kg / 1100 lbs. Size 1 is 15/25/90cm and 11.0 Kg / 24.3 lbs).

Part Number: 320500KP

pipe chamfering tool

The pipe chamfering tool is used to remove some material from the outer leading edge of pipe in socket welding. This space allows for some of the extra molten plastic to accumulate without causing a restriction of the pipe inner diameter. It consists of a V-shaped holder and speed handle as well as a rolling inner pin, which are both adjustable for different pipe sizes and wall thickness. The pipe is held firmly but allowed to spin towards the angled knife blade. The speed handle allows its use in a similar fashion to a large pencil sharpener. The chamfering tool is available for different pipe size ranges:

Size 1: Chamfer Tool 1 is used on 25 to 75mm pipe (0.75 kg/1.7 lbs.)
Size 2: Chamfer Tool 2 is used on 32 to 250mm pipe (1 kg/2.2 lbs)
Welder Tools

315 rotation circular saw
The 315 rotation circular saw is used to square-cut pipe from OD 110mm up to OD 315mm with a maximum wall thickness of 40mm. It is kept on the pipe by means of an adjustable J-support bar. The saw comes complete with a clamping lever for attachment to the pipe, adjusting hand wheel crank, guide handles, j-bar / prism, fastening belt, saw blade cover and transport case. Pipe supports must be provided separately. The 315 RC saw operates on 110VAC with 1 plug. The saw and transport case is 48/48/67 cm and weighs 25.0 Kg / 55.0 lbs.
Part Number: 315-SAW

outside deheader
The outside deheader is an ultra-light device for the safe and easy removal of the outside PE, PP and PVDF welding beads after butt welding. The compact construction of the device allows its use on pipes still clamped in the welding machine, i.e. during cool down time without a time consuming removing of the clamping tools being necessary.

The outside deheader is available for different pipe size ranges:
Size 1: Part Number 5650160 is used on 110 to 160mm pipe (0.5 kg/1.1 lbs.)
Size 2: Part Number 5650315 is used on 180 to 315mm pipe (1.36 kg/3.0 lbs)
Smaller sizes are per specific pipe size: Part Number 56500xx (where xx is the pipe size)
Welder Certification Program

Chemline’s Welder Certification Program qualifies students to weld various plastics using various welding machines in accordance with ASME B31.1, B31.3 and CSA B51. The Welder Certification Program allows students to weld plastics, perform basic visual checks of welds, and understand basic piping layout. Certification documents such as the Fusion Procedure Specification (FPS), Fusing Procedure Qualification Record (PQR), Fusing Machine Operator Qualification Record (FPQ), are used to facilitate the official registration of pressure piping systems with local authorities for total quality control during projects.

Welder 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. Chemline will attempt to combine machines with freight allowed pipe orders but won’t guarantee this service.

Rental Rates:
• Daily Rates – are per day, excluding weekends or National holidays.
• Weekly Rates – are per calendar week or any part of it. We will not prorate partial weeks.
• Monthly Rates – are per calendar month or any part of it. We will not prorate partial months.

Welder 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. Chemline 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 Chemline until it leaves our facility. All rental and purchased equipment is photographed as packaged for freight pick up. Chemline is not re-sponsible for the condition of the tool upon arrival on site. Chemline 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 Thornhill ON, 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.

Chemline 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 Thornhill, Ontario headquarters at 1-905-889-7890.
The person or corporation named as customer on the reverse side of this Rental Agreement (the “Customer”) shall rent the equipment (the “Equipment”) described or more particularly described on the reverse side of this Rental Agreement and that such equipment (“Equipment”) constitutes the entire agreement between the parties and supersedes all prior agreements, understandings, negotiations and discussions whether oral or written, of the parties and there are no warranties, representations or other items more particularly described on the reverse side of this Rental Agreement the Equipment) in accordance with the following terms and conditions:

1. Term. Chemline shall rent to the Customer, the Equipment for a term set forth on the reverse side of this Rental Agreement commencing on the date on which the Equipment is shipped to or picked up by the Customer. The date of shipment or pickup of the Equipment shall be deemed to be the commencement date on the reverse side of this Rental Agreement if that date differs from the Shipment date on the reverse side of this Rental Agreement.

2. Affirmations. Where the Customer is not the person signing the Rental Agreement on the Customer’s behalf, the person signing this Rental Agreement represents and warrants that he or she has the authority of the Customer to sign this Rental Agreement on the Customer’s behalf and to pay the credit of the Customer. The Customer is a corporation is a representation that the person signing this Rental Agreement is a duly appointed signing officer of the Customer, duly authorized by the Customer to sign this Rental Agreement on its behalf and the Customer to rent the Equipment under this Agreement. The persons signing this Rental Agreement shall be jointly and severally liable with the Customer for the performance of all the terms of this Rental Agreement and of this Rental Agreement. In the event that more than one Customer is named in this Rental Agreement, the liability of each shall be joint and several.

3. Purchase Order. In the event that the provisions of the Customer’s purchase order conflict with the terms of this Rental Agreement, this Rental Agreement shall govern and supersede the terms of the Customer’s purchase order. Notwithstanding that this purchase order is accepted, acknowledged otherwise executed by or on behalf of Chemline.

4. Title. Chemline shall retain all right to ownership and title to the Equipment. No ownership or title to the Equipment is transferred or assigned to the Customer under this Rental Agreement.

5. Acts inconsistent with Title of Chemline. The Customer shall not do or act or permit any other person to do any act or permit any act which would be inconsistent with Chemline ownership and title in the Equipment. Without limiting the generality of the foregoing statement, the Customer shall not permit any party to obtain an interest in the Equipment by way of lien, charge, encumbrance, right of possession or otherwise.

6. Location. The Customer shall keep the Equipment at the location specified on the reverse side of this Rental Agreement. The Customer shall not remove the Equipment from this location without the prior consent of Chemline.

7. Delay. Chemline shall not be liable to the Customer in any way for any delay in supplying the Customer with the Equipment, replacements of the Equipment or in any servicing or repairing of the Equipment.

8. Inspection and Removal of Equipment. Chemline may enter upon the premises of the Customer where the Equipment is located or where Chemline believes the Equipment to be located. The Customer may permit these entries without notice to the Customer at any time to examine the Equipment. Chemline may enter such premises and remove the Equipment for the purposes of repairing and maintaining the Equipment or for exercising the rights of the Customer under this Rental Agreement without notice to the Customer. Any removal of the Equipment by Chemline shall thereby not constitute the termination of this Rental Agreement. Chemline shall not be liable to the Customer for any loss, damage or expense incurred by the Customer including but not limited to interruption of business, property damage or loss of profit caused by the inability of Chemline on such premises or the removal of the Equipment under the terms of this Rental Agreement.

9. No Infringements or Representations Given by Chemline. The Customer acknowledges that it has selected the Equipment as a result of its own investigations and without relying on any representations or warranties given by Chemline.

10. Compliance with OHSA, Regulations. The Customer confirms that the Equipment is in good condition that it is safe to operate, and that the Equipment is in compliance with any and all Occupational Health and Safety legislation and regulations that apply to it, and in particular, to the equality intended usage and of the Equipment. The Customer shall indemnify and save Chemline harmless from any cost, expense or damage incurred by Chemline in making a claim against any representation or warranty made by a manufacturer or supplier of the Equipment.

11. Use. The Customer shall operate, maintain or store the Equipment in a clean, safe, secure place. The Customer shall operate, maintain or store the Equipment in the manner contemplated by the manufacturer and the user of the Equipment. The Customer shall use the Equipment only for uses for which it was manufactured and only in accordance with all applicable laws, by-laws, rules and regulations affecting the use of said equipment but not limited to the Occupational Health and Safety Act.

12. Payment of Charges. The Customer shall pay to Chemline on the terms set out on the reverse:

a) rent for the Equipment at the rates set out on the reverse side of this Rental Agreement.

b) any and all costs for shipping the equipment to the customer.

c) the costs, charges and expenses of replacement or repair or restoration of the Equipment, and the Equipment are returned to the Customer under a rental Agreement.

d) any and all costs, charges and expenses or expensed incurred by Chemline in exercising its remedies hereunder other than the Customer, including solicitors fees on a substantial indemnity basis, collection fees, disbursements, bailiff's fees and transportation charges.

13. Loss or Damage. The Customer shall use the Equipment at its own risk and shall indemnify and save Chemline harmless from and against any and all liability, loss, damage, expense, causes of action, suit, costs or costs of any nature or on the full or partial or in whole or in part the death, or injury connected with the alleged or actual use, operation, delivery or transportation of the Equipment or its location or condition. Any amounts payable by the Customer's insurer's, or by any third party for equipment loss or damage to be made payable to Chemline, and the Customer shall pay to Chemline the difference between the invoice amount and the amount otherwise paid, immediately, in full.

14. Insurance. Subject to paragraph 15, the Customer shall, at its own expense:

a) maintain equipment against all perils and risks at an amount equal to the current and new cost of the equipment; and

b) place and maintain insurance against liability for any loss, costs, injury and/or damage resulting from any way caused by the use, operation, maintenance or possession of the equipment or the ownership hereof by Chemline in such amounts as would be placed and maintained by a prudent owner of the equipment.

15. Liability. The Customer shall be liable for all loss or damage from acts or omissions that are negligent as determined by Chemline, in its sole discretion. Chemline will inspect the equipment on return to its warehouse to assess normal wear and tear, identify any missing parts including the original shipping container and determine if there is excessive damage. Customer will be invoiced the cost of rectifying heating elements that are returned having excessive scratches or surface damage, the cost of any missing parts and damages as determined by Chemline.

16. Return of Equipment. The Customer shall at the sole expense of the Customer return the Equipment to Chemline at the location and on the return date specified on the reverse side of this Rental Agreement in the same condition in which the Equipment was received by the Customer, save and except for reasonable wear and tear to the Equipment for the Equipment and the Equipment for the Equipment had been returned in an undamaged condition or in accordance with the terms of this Rental Agreement and that the signature shall not act as a waiver of any Chemline rights under this Rental Agreement against the Customer.

17. General Indemnity. All parties to this Agreement shall be deemed to be in default under this Rental Agreement if any of the following events occurs:

a) The Customer is in breach of any term or provision of this Rental Agreement;

b) The Customer commits an act of bankruptcy, makes an assignment for the benefit of creditors or consents to the appointment of a receiver, trustee or liquidator of itself or any part of its property, or ceases or threatens to cease to carry on business in the ordinary course;

c) The Customer permits a judgment against it to remain unpaid for a period of ten (10) days after the date of judgment;

d) Any proceedings in bankruptcy, receivership or insolvency or for the reorganization or liquidation of the Customer are commenced against the Customer or the property of the Customer.

18. Effect of Default. Upon the occurrence of an event of default under section 17 of this Rental Agreement:

a) All rent and other charges thereafter payable by the Customer to Chemline under this Rental Agreement shall immediately accelerate and become due and payable to Chemline without notice and the Customer shall pay any late charges and administrative fees.

b) The Customer shall forthwith at its sole expense return the Equipment to Chemline to the address of Chemline set out on the reverse side of the Rental Agreement or to such other address as Chemline shall give notice to the Customer.

c) In the event the Customer fails to return the Equipment as described in subsection (b), Chemline may take possession of the Equipment and Chemline may enter upon any premises without notice or demand for the purpose of removing or to remove the Equipment from such premises. Chemline shall not be liable to the Customer in any manner for such immobilization or removal.

d) Notwithstanding the immobilization and removal of the Equipment, the Customer shall be liable to Chemline for the following amounts:

i. the amounts due and unpaid by the Customer to Chemline under this Rental Agreement;

ii. the amount of rent payable under this Rental Agreement for the period from the sale of the Equipment and/or removal to the date on which Chemline rents to another person all the Equipment and not just a portion thereof;

iii. all costs and expenses incurred by Chemline arising as a result of or in connection with the removal of the Equipment or in any servicing or repairing of the Equipment.

iv. interest on the then outstanding amounts due and owing by the Customer to Chemline under this Rental Agreement at the rate of 1.5% per month (18% per annum).

19. General Indemnity. The Customer shall indemnify and save Chemline harmless from all claims, demands and lawsuits arising from:

a) the issuance of a warrant for the amount of the Customer under this Rental Agreement;

b) any action of Chemline, including self-help, used by Chemline to get the Equipment back or otherwise enforce the terms of this Rental Agreement, and

c) any action against Chemline arising from the customers breach of any term or provision of this Rental Agreement.

20. Assignment. Chemline may assign its rights under this Rental Agreement and transfer its title and interest in the Equipment to any party and/or any person or persons or corporation or corporation as it may determine. Chemline may not assign any of its rights and obligations under this Rental Agreement without the prior written consent of Chemline.

21. Sublett and Assignment. The Customer shall not sublet the equipment or any part thereof or assign this Contract without the prior written consent of Chemline, which permission may be withheld arbitrarily.

23. Miscellaneous.

a) This Rental Agreement shall be construed and enforced in accordance with the laws of Canada applicable therein;

b) Any assignments attached to this Rental Agreement form part of this Rental Agreement;

c) No waiver by Chemline of any of the terms of this Rental Agreement shall be deemed a waiver of any other term of this Rental Agreement or to constitute a continuing waiver of that term of the Rental Agreement;

d) Any notices required to be given under this Rental Agreement shall be given in writing at the address of each party set out on the reverse side of this Rental Agreement or to such other address as either party may by notice in writing inform the other. Notices shall be deemed to have been effectively mailed on the day upon which they are deposited for mail delivery as prepaid ordinary mail;

e) The Customer who occupies leased premises must provide Chemline with the name and address of the lessor of the leased premises;

f) In construing this Rental Agreement the singular shall include the plural and vice versa, and words importing the masculine shall include the feminine and the neuter genders and vice versa and words implying the singular shall include the plural and vice versa and words importing the singular shall include the plural and vice versa and words implying the plural shall include the singular and vice versa and words implying the singular shall include the plural and vice versa.

25. Termination. This Rental Agreement shall be binding unless executed in writing by both parties.

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Fusion Welded Piping Systems

### Polypropylene
- **for:** Pure Water, Chemicals, Slurries
- **applications:**
  - Aggressive industrial chemicals up to 90°C (194°F)
  - Slurries
  - Universities and hospitals
  - Deionized water systems
  - Reverse osmosis water systems
  - Food industry
- **size range (ODmm):** pipe: 12 – 1,400
  - butt fusion fittings: 20 – 630
  - socket fusion fittings: 20 – 710
  - electro fusion fittings: 20 – 630
- **temp. range °C (°F):**
  - PP-H: –5 to 90°C (23 to 194°F)
  - PP-R: –20 to 90°C (–4 to 194°F)

### Unpigmented Polypropylene
- **for:** USP Purified Water, Food
- **applications:**
  - Universities and hospitals
  - Deionized water systems
  - Reverse osmosis water systems
  - USP purified water systems in pharmaceutical plants
  - Electronics industry chemical distribution systems
  - Semiconductor manufacturing drain systems
- **size range (ODmm):**
  - pipe: 20 – 110
  - butt fusion fittings: 20 – 110
  - socket fusion fittings: 20 – 63
  - flanges: 20 – 110
- **temp. range °C (°F):** –20 to 90°C (–4 to 194°F)

### PVDF
- **for:** Purified Water for Semiconductors, Strong Acids, Organic Chemicals, Abrasive Slurries
- **applications:**
  - Chemical process piping
  - Concentrated acids
  - Organic chemicals
  - Ultrapure water for semiconductor manufacturing
  - Food industry
- **size range (ODmm):**
  - pipe: 16 – 400
  - butt fusion fittings: 20 – 315
  - socket fusion fittings: 20 – 110
  - flanges: 20 – 315
- **temp. range °C (°F):** –40 to 121°C (–40 to 250°F)

### ECTFE (Halar®)
- **for:** Sodium Hypochlorite, Hot Caustic Solutions, Purified Water for Semiconductors
- **applications:**
  - Best overall chemical resistance
  - Excellent resistance to mineral and oxidizing acids like PVDF but recommended for chlorine and hot alkalai solutions where PVDF is not
  - Chemical feed systems
  - High-purity water systems
  - Chemical process piping
- **size range (ODmm):**
  - pipe: 20 – 110
  - butt fusion fittings*: 20 – 110
  - socket fusion fittings: 20 – 63
  - flanges: 20 – 110
  - valves: 20 – 110
- **temp. range °C (°F):**
  - –76 to 150°C (–105 to 302°F),
  - short term exposure to 170°C (338°F)
  - * size range depends on the specific fitting

### Advanced PE
- **for:** Sodium Hypochlorite
- **applications:**
  - Sodium hypochlorite services
  - Chemical feed systems
  - Process piping
- **size range (ODmm):**
  - pipe: 20 – 315
  - butt fusion fittings: 32 – 315
  - socket fusion fittings: 20 – 25
  - valves: 20 – 110
- **temp. range °C (°F):**
  - –50 to 60°C (–58 to 140°F)
Fusion Welded Piping Systems

Blue PE
for: Compressed Air

- Size range (ODmm):
  - Pipe: 20 – 315
  - Butt fusion fittings: 125 – 315
  - Socket fusion fittings: 20 – 110
  - Electro fusion fittings: 20 – 110
  - Valves: 20 – 110
  - Flanges: 20 – 315
- Temp. range °C (°F):
  - -30 to 60°C (-32 to 140°F)

applications
- Food
- Packaging
- Mining
- Engineering
- Automotive
- Transportation
- Construction
- Laboratories
- Maintenance workshops
- Other manufacturing and processing operations
- Semiconductor

PP-RCT
for: Drinking Water
HVAC

- Size range (ODmm):
  - Pipe: 20 – 500
  - Butt fusion fittings: 160 – 500
  - Socket fusion fittings: 20 – 125
  - Electro fusion fittings: 20 – 450
  - Valves: 20 – 63
  - Temperature range °C (°F):
  - -20 to 95°C (-4 to 203°F)

applications
- Potable water
- HVAC, hot and cold water
- Hydronics
- Commercial buildings
- Universities and hospitals

NoFire™ PP-RCT
for: Fire Attenuation Sprinkler Systems

- Size range (ODmm):
  - Pipe: 20 – 160
  - Socket fusion fittings: 20 – 160
  - Grooved pipe fittings: 50 – 160
  - Threaded fittings: 20 – 110
  - Valves: 20 – 160
  - Temperature range °C (°F):
  - -20 to 95°C (-4 to 203°F)

applications
- Fire attenuation wet pipe sprinkler systems
- Commercial buildings
- Residential apartments, houses

Dual Containment
for: “Maximum Safety” Chemical Containment

- Size range (ODmm):
  - Pipe: 90/32 – 315/250
  - Butt fusion fittings: 90/32 – 315/250
  - Dog bones: 90/32 – 315/250
  - Support discs/spider clips: 90/32 – 315/250
  - Temperature range °C (°F):
  - Refer to individual material for specific operating temperatures

applications
- Often used for piping hazardous fluids underground or over a walkway in a plant
- Municipal water and wastewater treatment plant chemical lines
- Steel mills and plating shops
- Industrial waste treatment
- Bulk storage of chemicals
- Sulfuric, nitric, and hydrofluoric acids for wet stations in semiconductor plants
- Sewage systems for pharmaceutical wastewater