

# BW1000 AUTOBOREWELDER

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BW1

## Automated Spiral Welding System for Bore, Flange and Valve Repair

The Climax BW1000 AutoBoreWelder is an automated spiral welding system that provides high quality bore welding technology in a ruggedly constructed, highly portable and easily affordable package.

Now you can:

- Increase both your welding and machining productivity.
- Dramatically reduce repair time and costs.
- Repair equipment on-site.
- Maximize equipment uptime.
- Extend the working life of your capital equipment.

### Lightweight & Portable:

- Weighs just 17 lb (7.7 kg).
- Easy to transport from the shop to the field.

### Extremely Versatile & Easy to Operate:

- Welds in any axis: vertical, horizontal or inverted.
- Operation is extremely simple.
- Interfaces with most wire feeders.



### One setup for Both Welding & Boring:

The Climax Bore Welder Interface Kit simplifies your boring and welding setup process:

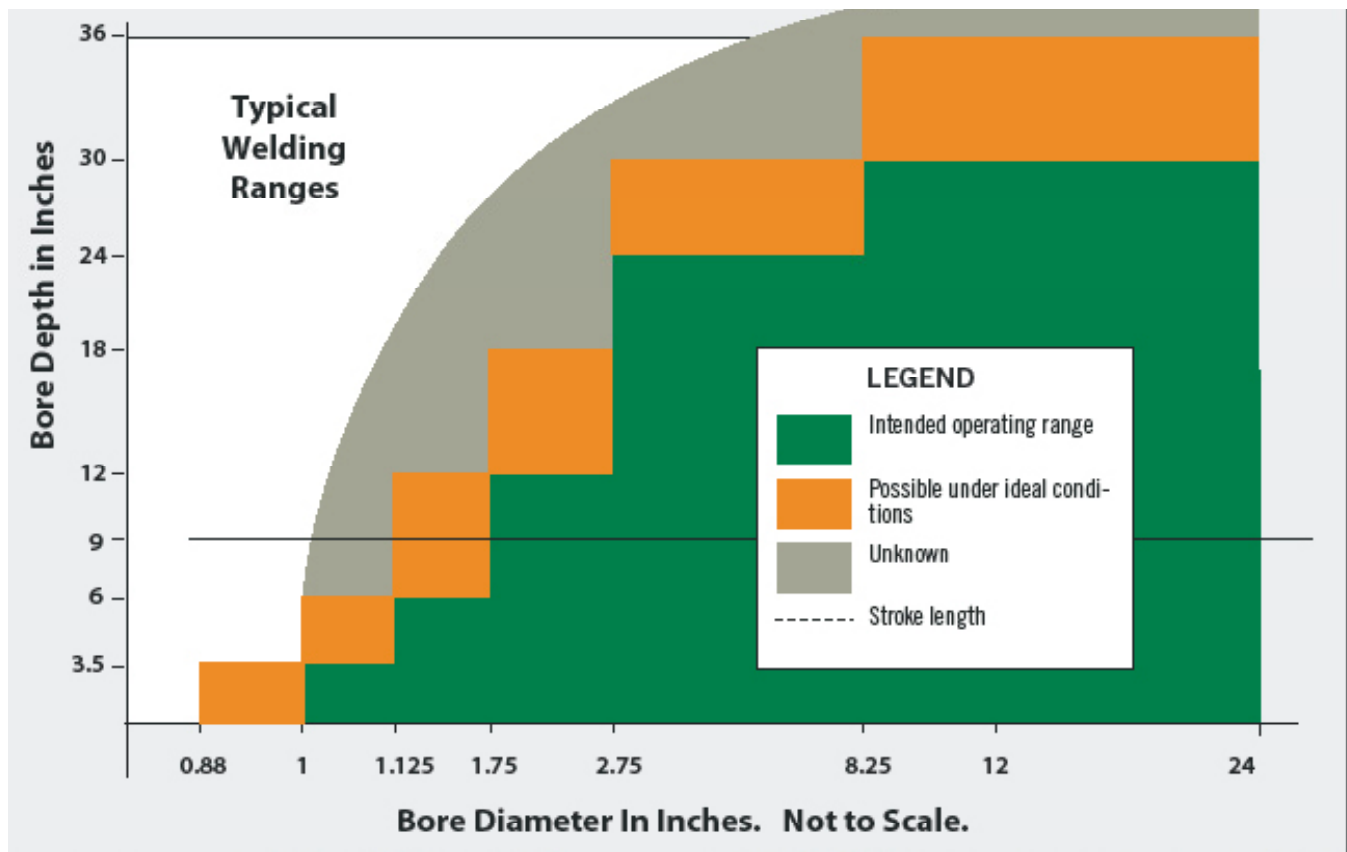
- Allows quick attachment of the BW1000 AutoBoreWelder directly to the Climax BB3000, BB4500 or BB5000 Boring System mounting fixtures.
- Ensures perfect alignment for both welding and machining.
- One setup for both welding and boring saves time, and helps you get your job done quickly.

### Weld & Bore at the Same Time:

Because the BW1000 AutoBoreWelder uses the same mounting fixtures as the Climax BB3000, BB4500 or BB5000 Boring Systems, you can weld up one section of your job and bore out another section at the same time. Simply use an extra set of bearing mounts to line bore one set of bores while bore welding another...cuts your work time!

# SPECIFICATIONS, WELD RANGE INFO

	US	Metric
Axial feed per revolution:	8TPI – 0.125 inch	8TPI – 3.3 mm
Welding process:	MIG (GMAW)	
Axial travel:	9.0 inch	228.6 mm
Wire diameter range:	0.030 - 0.045 inch	0.76 - 1.14 mm
Amperage rating:	140 A Continuous	
Length of standard pkg extension arms:	1 each: 3, 6, and 12 inch arms	1 each, 76.2, 152.4, and 304.8 mm arms
Max. reach without support:	40 inches	101.6 mm
Standard package torches:	Swivel #1, Swivel #2	
Torch range:	2.75 to 12 inches	69.9 to 304.8 mm
Power Supply Requirements:	120 VAC 50/60Hz or 230 VAC 50/60Hz, 175 Amp Rating CV power source (power supply not included in AutoBoreWelder 1000 System package).	



# TOOL CONFIGURATIONS

## Configure your BW1000 AutoBoreWelder in ten easy steps.

To configure your BW1000 AutoBoreWelder:

- 1 Select a Base Unit
- 2 Select a Swivel Torch Assembly
- 3 Select Swivel Torch Options
- 4 Select Additional Swivel Torch Consumables
- 5 Select a Standard Torch Adapter
- 6 Select Standard Torches
- 7 Select Standard Torch Consumables
- 8 Select Additional Torch Extensions
- 9 Select a Mounting Option
- 10 Select a Conduit Assembly

To configure the AutoBoreWelder you require, simply select the option you need in each step, then contact your Climax representative.

<b>1 Base Unit</b>		
Tool Kit ,Weld Head 9 inch (228.6 mm) Stroke, Rod, Collar, Standard Torch Extension Kit, Consumable Package, Power Cord, Radial Mount, Liner & Pelican Case		<b>70198</b>
<b>2 Swivel Torch Assembly</b>		
Swivel Assembly		<b>35603</b>
<b>3 Swivel Torch Options</b>		
Swivel Torch #1, 2.75 to 8.2 inch (70.0 to 208.0 mm) Dia.		<b>39725</b>
Swivel Torch #2, 8 to 12 inch (203.0 to 305.0 mm) Dia.		<b>39726</b>
Swivel Torch Kit #1 & #2 2.75 to 12 inch (69.9 to 304.8 mm) Dia.		<b>70200</b>
<b>4 Swivel Torch Consumables</b>		
Welding Tip 0.035 inch (0.9 mm)		<b>69865</b>
Welding Nozzle, Standard (For All Torches Except #0 & #00)		<b>69866</b>
Welding Diffuser		<b>69778</b>
<b>5 Standard Torch Adapter (Swivel to Standard)</b>		
Torch Adapter, Standard Torches to Swivel Assembly		<b>33804</b>
Small Bore Kit 0.88 to 3 inch (22.4 to 76.2 mm), Includes Standard Torch Adapter		<b>36750</b>
<b>6 Standard Torches</b>		
(Must have torch adapter or small bore kit)		
Torch bearing clearance package 12 to 27 inch (304.8 to 685.8 mm)		<b>63916</b>
#00 Torch (requires torch adapter, standard to swivel) Size range: 0.88 - 1.8 inches (22 - 46 mm) dia.		<b>29063</b>
#0 Torch (requires torch adapter, standard to swivel) Size range: 1.75 - 3 inches (44 - 76 mm) dia.		<b>28448</b>
#1 Torch (requires torch adapter, standard to swivel) Size range: 2.75 - 5.5 inches (70 - 139 mm) dia.		<b>29064</b>
#2 Torch (requires torch adapter, standard to swivel) Size range: 4.5 - 7.5 inches (114.3 - 190.5 mm) dia.		<b>29032</b>
#3 Torch (requires torch adapter, standard to swivel) Size range: 6 - 9 inches (152 - 228 mm) dia.		<b>29033</b>
#4 Torch (requires torch adapter, standard to swivel) Size range: 8-11 inches (203.2 - 279.4 mm) dia.		<b>29034</b>
#5 Torch (requires torch adapter, standard to swivel) Size range: 10 - 13 inches (254 - 330 mm) dia.		<b>29035</b>
#6 Torch (requires torch adapter, standard to swivel & torch counterbalance) Size range: 12 - 15 inch (304.8 - 381.0 mm) dia.		<b>31792</b>
#7 Torch (requires torch adapter, standard to swivel & torch counterbalance) Size range: 14 - 17 inches (356 - 432 mm) dia.		<b>31792</b>
<b>6 Standard Torches, continued</b>		
#8 Torch (requires torch adapter, standard to swivel & torch counterbalance) Size range: 16 - 19 inch (406.4 - 482.6 mm) dia.		<b>31792</b>
#9 Torch (requires torch adapter, standard to swivel & torch counterbalance) Size range: 18 - 21 inches (457 - 533 mm) dia.		<b>30710</b>
Trammel OD torch package up to 14 inch (355.6 mm) dia.		<b>27013</b>
Trammel torch 28 inch (711.2 mm) maximum OD capability Torch counterbalance		<b>38506</b> <b>30756</b>
<b>7 Standard Torch Consumables</b>		
Welding tip #00, 0.035 inch (0.9 mm)		<b>69521</b>
Welding tip #00, SPEZ Feed 0.045 inch (1.2 mm)		<b>69554</b>
Welding tip #0, Standard 0.035 inch (0.9 mm)		<b>69520</b>
Welding tip #0, Large Radius 0.035 inch (0.9 mm)		<b>67997</b>
Welding tip #0, Standard Radius 0.045 inch (1.2 mm)		<b>68622</b>
Welding tip #0, SPEZ Feed 0.045 inch (1.2 mm)		<b>69555</b>
Welding tip, 0.035 inch (0.9 mm)		<b>69865</b>
Welding tip, 0.045 inch (1.2 mm)		<b>70149</b>
Welding tip, 0.030 inch (0.8 mm)		<b>70150</b>
Welding tip, 0.035 inch (0.9 mm) Chromium/Zirconium		<b>62642</b>
Welding tip #00, 0.035 inch (0.9 mm) Chromium/Zirconium		<b>69891</b>
Welding Tip #0, Standard 0.035 inch (0.9 mm) Chromium/Zirconium		<b>70204</b>
Welding Tip 0.045 inch (1.2 mm) Dia. Chromium/Zirconium		<b>70205</b>
Welding Nozzle (For All Torches Except #00 & #0)		<b>69866</b>
<b>8 Additional Torch Extensions</b>		
Torch Extension Kit 3 to 18 inch (76.2 - 457.2 mm), Includes 3, 6, 12 & 18 inch (76.2, 152.4, 304.8 & 457.2 mm)		<b>69895</b>
Torch Extension 3 inch (76.2 mm)		<b>29038</b>
Torch Extension 6 inch (152.4 mm)		<b>29039</b>
Torch Extension 12 inch (304.8 mm)		<b>29040</b>
Torch Extension 18 inch (457.2 mm)		<b>29065</b>
Torch Extension Support		<b>40877</b>
<b>9 Mounting Options</b>		
Adjustable Base		<b>29037</b>
Adapter Kit to BB3000 1-1/4 inch (31.8 mm) Bar		<b>26795</b>
Adapter Kit to BB4500 1-3/4 inch (44.5 mm) Bar		<b>43731</b>
Adapter Kit to BB5000 2-1/4 inch (57.2 mm) Bar		<b>26518</b>
Tool Alignment for BB3000 1-1/4 inch (31.8 mm) Bar		<b>26656</b>
Tool Alignment for BB4500 1-3/4 inch (44.5 mm) Bar		<b>36062</b>
Radial Mount 5 inch (127.0 mm), Radius Standard Spacer		<b>28208</b>
Radial Mount 10 inch (254.0 mm), Radius Spacer		<b>35006</b>
Weld Head Support Rod		<b>30773</b>
Mounting Rod Extender		<b>30831</b>
<b>10 Conduit Assembly</b>		
Conduit Switch Assembly for Miller		<b>37688</b>
Conduit Switch Assembly for Euro		<b>36862</b>
Conduit Switch Assembly for Tweco		<b>39408</b>
Conduit Switch Assembly for Lincoln		<b>43071</b>
Conduit Switch Assembly for Hobart & Thermal Arc Hefty II		<b>69282</b>

# CLIMAX GLOBAL LEARNING CENTER

Climax has been teaching the fundamentals and fine points of portable machine tool operation for practically as long as we've been inventing and building the tools.

At the Global Learning Center situated in our corporate headquarters near Portland, Oregon, we provide training for machine tool operators on portable machine tool safety and machine setup and operation. Trainees also receive technical tips and tools to improve operational efficiencies, with the vast majority of every program devoted to hands-on activities and skill development.

The Climax instructional team includes specialists in shipbuilding, power generation, civil engineering, bridge re-building, petrochemical and other industries.



Whether it's a regularly scheduled course at the Global Learning Center, or custom curriculum conducted at your facility, your machinists will benefit from courses developed by some of the most respected authorities in the business.

Call us today to register for a regularly scheduled class, or talk to us about how we can customize a training program for your specialized application.

## Call Climax for:

### On-site Training

Need some refresher courses in setting up and operating your Climax machine tool?

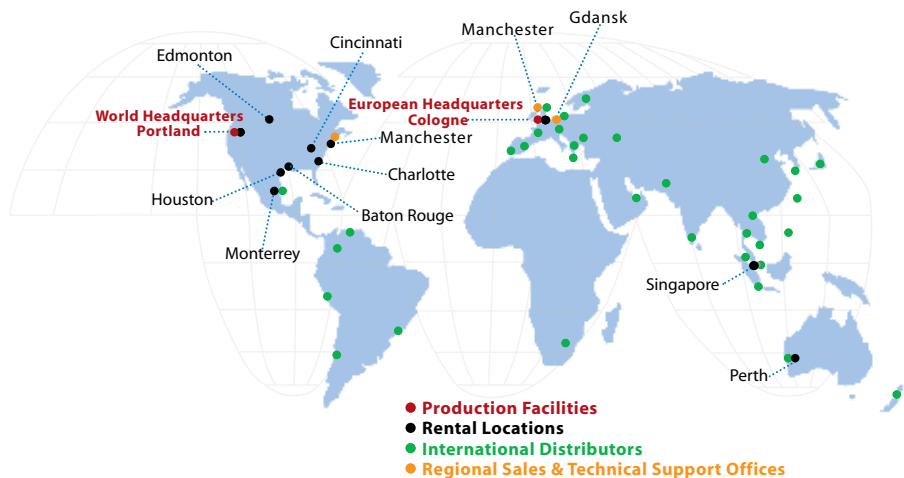
### Special Projects

Climax has been solving complicated on-site machining and welding problems for our customers since 1964.

### Rentals

With 16 worldwide rental depot locations, you are never far away from a Climax portable machine tool.

## Climax Global Locations



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