BW5000 AUTOBOREWELDER

3 2014 BW5

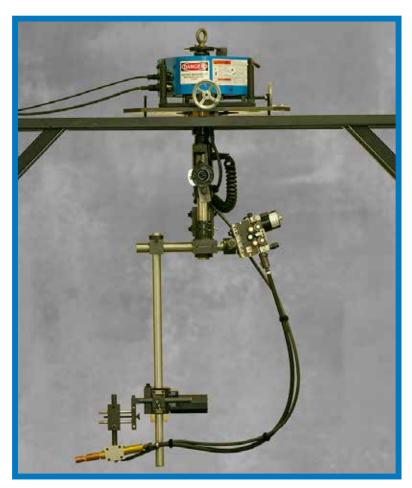
A powerful welding and cladding system that rotates around the work piece.

High Quality

- The Climax BW5000 AutoBoreWelder with Auto-Skip is an affordable, highly configurable, circumferential weld cladding system, which provides a durable platform for multiple configurations of weld overlay
- The BW5000 rotates around stationary parts.
 The wire feed, step, and weld wire rotate together under the stationary head unit, retaining consistent wire placement as the machine rotates
- The BW5000 allows for a wide range of exotic alloys with multiple configurations to meet your needs
- The BW5000 utilizes a CLX step feed system, allowing 100% coverage, creating precision welds of any thickness required between 0.125 and 0.35 inches. (3.175 and 8.89 mm)

Flexible and Dependable Performance

- The modular BW5000 system allows efficient and rapid shifts in various configurations like welding bores, facing outside diameters, and conical seats
- Any commercially available alloy can be used, such as Inconel[™], Hastelloy[™], Monel[™], or stainless steel
- The step process reduces waste while maintaining 100% coverage of the bore and allowing weld overlay thickness to be as large or as small as needed
- Flange faces, gasket surfaces and conical seats can also be welded automatically by utilizing an optional variable angle for conical seats
- The BW5000 can interface with most CV power supplies that are remote interconnect capable, and 350 Amp, 100% duty cycle.
 Clad transfer modes include GMAW-S (short circuit), GMAW-P (pulse waveform), and FCAW-G (gas shielded flux core). All GMAW transfer modes are supported by the BW5000.



Minimize Cost, Waste and Downtime

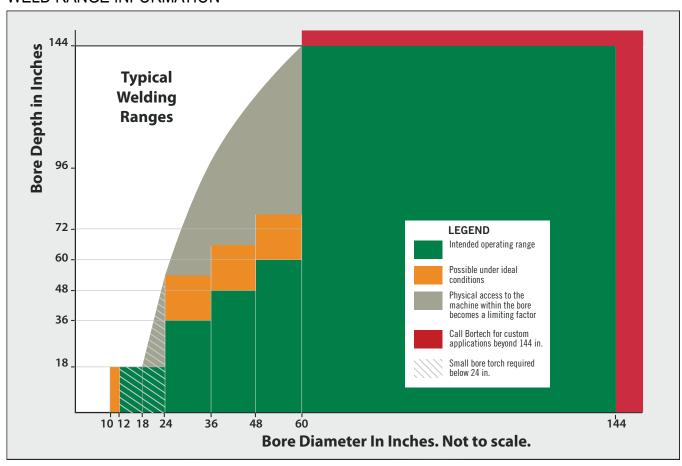
- The BW5000 allows large parts to be welded without rotating them, making it ideal for field work, setting up on large equipment that could never be rotated, and gets the job done 75% faster than traditional hand welding methods.
- After welding operations are complete, the BW5000 packs up to require only 1 cubic yard of storage space.
- The BW5000 can deposit 12 pounds of metal per hour — hour after hour
- Increase both the welding and production capacity
- Build up or clad bores from 12 to 144 inches (304.8 to 3657.6 mm)





	US	Metric	
Welding Process	Metal - Inert - gas (MIG) Short Arc, Pulse, or Spray		
Max. Wire Spool Size	2 inches ID x 14 inches OD	50.8 mm ID x 381 mm OD	
Stroke	10, 20, 30, 40 and 50 inches	254, 508, 762, 1016 and 1270 mm	
ID Diameter Range	12 to 144 inches	304.8 to 3657.6 mm	
O.D. Welding Diameter Range	12 to 120 inches	304.8 to 3048.0 mm	
Conical Seat Capability: Capable of tracking conical seats &	10 inch stroke cones from 12 to 144 inches in diameter	254.0 mm stroke 304.8 to 3657.6 mm diameter	
Small Bore Diameters	12 inches	304.8 mm	

WELD RANGE INFORMATION



All dimensions should be considered reference. Contact your Climax Representative for precision dimensions. Specifications are subject to change without notice. There are no systems or components on this machine that are capable of producing hazardous EMC, UV or other radiation hazards. The machine does not use lasers nor does it create hazardous materials such as gasses or dust.



TOOL CONFIGURATIONS

Configure your BW5000	ווו כ) simble	stebs:
-----------------------	-------	----------	--------

- 1 Select a Base Unit
- 2 Select Machine Ranges
- 3 Select Controls
- 4 Select Feed Stroke (Auxiliary Slide Guide Rod)
- 5 Select Line Bar
- 6 Select Power Supply Cables
- 7 Select Accessories
- 8 Select Consumables

To generate the correct part number for the machine you require, simply select the part number needed in each step as appropriate, and contact your Climax representative.

NOTE: Configuration options shown are for vertical axis welding. Please contact us for configuration options to enable horizontal axis (out of position) welding.

1 Base Unit <u>71991</u>

Includes: Weld Head, Wire Feed, Wire Feed Conduit & Control Cable, 12 inch (304.8 mm) and 36 inch (914.4 mm) Line Bars, Standard Torch, Stepping Unit, Tool Kit, Packaging, Consumables Package, Positive Weld Cable 25 feet, Shield Gas Hose, and Extra Liner.

2 Machine Ranges

Radial Rod Kit for Welding Range: 24 - 72 inch (609.6 - **72079** 1828.8 mm) ID / 24 - 48 inch (609.6 - 1219.2 mm) OD, (includes one each 16, 24 & 38 inch (406.4, 609.6 & 965.2 mm Radial Rod).

Radial Rod Kit for Welding Range: 24 - 96 inch (609.6 - **72068** 2438.4 mm) ID / 24 - 72 inch (609.6 - 1828.8 mm) OD, (includes one each 16, 24, 38 & 60 inch (406.4, 609.6, 965.2 & 1524.0 mm) Radial Rod).

Radial Rod Kit for Welding Range: 24 - 120 inch (609.6 - 3048.0 mm) ID / 24 - 96 inch (609.6 - 2438.4 mm) OD, (includes one each 16, 24, 38 & 60 inch (406.4, 609.6, 965.2 & 1524.0 mm) Radial Rod).

Radial Rod Kit for Welding Range: 24 - 144 inch (609.6 - **71990** 3657.6 mm) ID / 24 - 120 inch (609.6 - 3048.0 mm) OD, (includes 1 each 16, 24 & 38 inch (406.4, 609.6 & 965.2 mm), two 60 inch (1524.0 mm) Radial Rods and one 96 inch (2438.4 mm) Wirefeed Conduit).

3 Controls

120V Controller with Plastic Connectors 71037 230V Controller with Plastic Connectors 71105

4 Feed Stroke (Auxiliary Slide Guide Rod) Cannot be Combined to Increase Length.

Auxiliary Slide Guide Assembly, 10 inch (254.0 mm) travel
Auxiliary Slide Guide Assembly, 20 inch (508.0 mm) travel
Auxiliary Slide Guide Assembly, 30 inch (762.0 mm) travel
Auxiliary Slide Guide Assembly, 40 inch (1016.0 mm) travel
Auxiliary Slide Guide Assembly, 50 inch (1270.0 mm) travel
70104

5 Line Bar (Depth Into Bore)

Bars cannot be combined for additional length. Base Unit comes with 12 & 36 inch (304.8 & 914.4 mm) line bars.

Line Bar 72 inch (1828.8 mm)

67544

Line Bar 96 inch (2438.4 mm)

72071

6 Power Supply Cables

ESAB 350MPI 14 Pin, 25 feet (7.6 m)	69916
Eutectic Pulsarc 6000 or ESAB LAI 550P, 25 feet (7.6 m)	45490
Lincoln Multi Weld 6 pin, 25 feet (7.6 m)	55327
Lincoln 14 pin, 25 feet (7.6 m)	32042
1 ' ' '	46670
1 , ()	34217
Miller 14 pin w/100V Pigtail, 25 feet (7.6 m)	29824
Miller Deltaweld 5 pin, 25 feet (7.6 m)	69918
Blank one end, 25 feet (7.6 m)	36874
Universal, 25 feet (7.6 m)	69920

7 Accessories

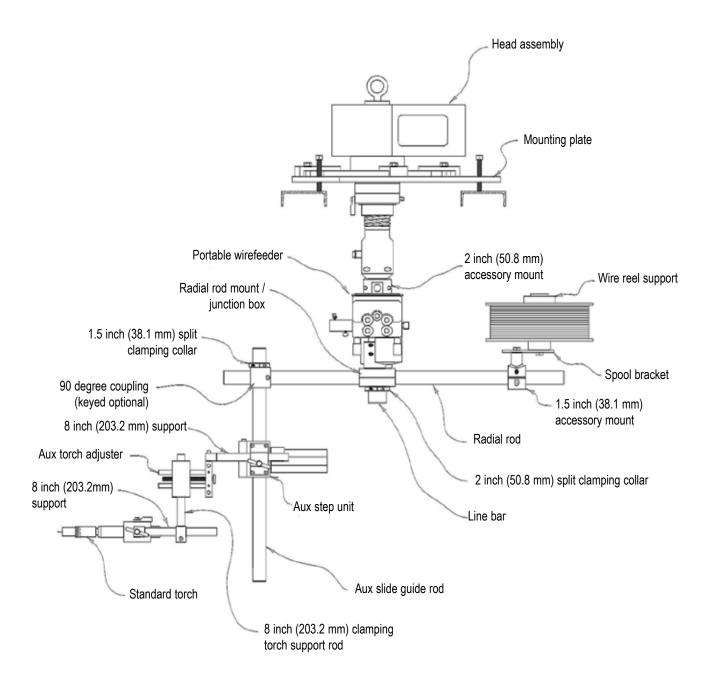
Small Bore Kit, 12 - 24 inch (304.8 - 609.6 mm) ID	71988
Conical Seat Step Mechanism, 10 inch (254.0 mm)	
Stroke (Taper Seat Welding)	70193

8 Consumables

71989

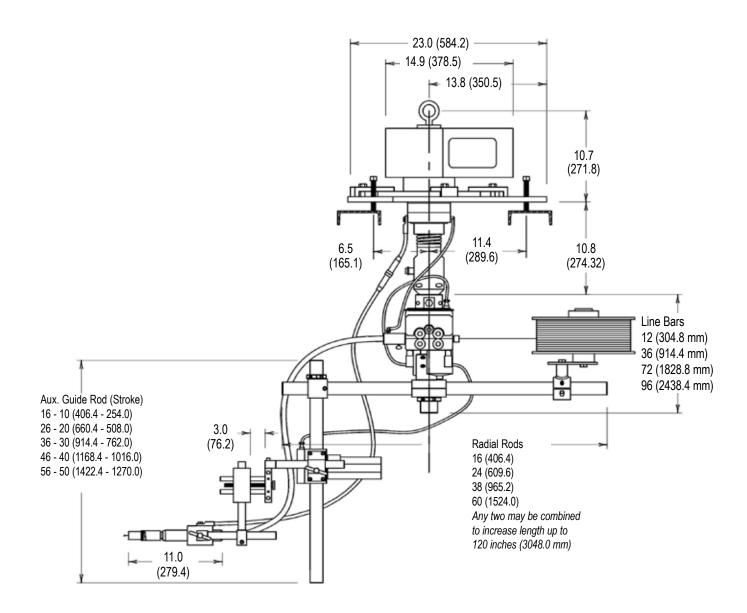
Consumables _	
Gas Diffuser for Torch	67547
Nozzle for Torch	67548
Insulator for Torch	67549
Contact Tip 0.045 inch (1.1 mm)	67555
Contact Tip 0.062 inch (1.6 mm)	67557
Feed Roll V-Groove 0.045/0.062 inch (1.1/1.6 mm)	67453
Feed Roll V-Groove 0.045/0.052 (1.1/1.3 mm) + 1/16 Knurled	70488

OPERATIONAL DIMENSIONS





Dimensions in Inch (mm)



CLIMAX GLOBAL LOCATIONS



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 tool.

Connect with us:



Distributed by:

Practical Tools Inc.

P.O. Box 233, Aurora, Ontario L4G 3H3

905-727-0014 / 888-847-8880

email: practicaltools@bellnet.ca

World Headquarters

2712 E. Second Street Newberg, Oregon 97132 USA

Copyright © 2014 CLIMAX Portable Machining & Welding Systems. All Rights Reserved. Climax has taken reasonable measures to ensure the accuracy of the information contained in this document. However, Climax makes no warranties or representations with respect to the information contained herein; and Climax shall not be held liable for damages resulting from any errors or omissions herein, or from the use of the information contained in this document

