

# AUTOBREWELDER 3000

FEATURES • SETUP & OPERATION  
COMPONENTS & ACCESSORIES • TECHNICAL DATA

## Advanced Automated Step Welding System

For Bore, Flange and Valve Repair

The Climax AutoBoreWelder 3000 automated step welding system provides you with a new degree of welding performance and precision. Your weld time will decrease dramatically while you produce precise, uniform, high quality welds as compared to hand welding techniques.

**Patented "Step" Process:** Our patented "step" technology provides complete weld coverage at the start and finish of the bore and infinite weld bead placement from 1mm to 5.6mm (.040" to .220"). This process gives you precise control of weld placement throughout the application. It also offers a wide range of travel speeds and amperage which provides the flexibility you need for challenging in-field conditions or when working with exotic metals.

**"Auto-Skip" Feature:** Our unique Auto-Skip function allows you to designate "weld-only" or "skip-weld" areas. This feature is essential for the rapid completion of work on out-of-round bores, or bores containing keyways. The AutoBoreWelder 3000 features four operating modes: Standard, Auto-Skip, Pie, and Carriage Return.

**Microprocessor Based Control Center:** Our innovative microprocessor based control center provides adjustment of all welding functions from one central location. You can quickly adjust "step" size & direction, rotation speed & direction, wire feed rate, arc voltage, arc interrupt, contactor control, gas purge and extended utilization of the Auto-Skip function.

**Extremely Versatile:** The AutoBoreWelder 3000 welds in any axis...vertical, horizontal or inverted. You can select either clockwise or counter-clockwise rotation with "push-button" ease. Even more flexibility is provided by a patented "offset head" which provides radial adjustment of the torch while maintaining the proper torch angle in relation to the work piece.



**One setup for Both Welding & Boring:** The Climax Bore Welder Interface Kit simplifies your boring & welding setup process. The interface kit allows you to quickly attach the AutoBoreWelder 3000 directly to the Climax BB5000, BB4000 or BB3000 Boring System mounting fixtures. This process ensures perfect alignment for both welding and machining. And one setup for both welding and boring saves time and helps you get your job done fast.

**Weld & Bore at the Same Time:** Get your jobs done quicker. Since the AutoBoreWelder & the Climax BB5000, BB4000 & BB3000 Boring System utilize the same mounting fixtures; 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 in half!

**Rugged, Fitted Protective Case For Quick, Safe Transport:** The AutoBoreWelder 3000 includes a heavy-duty, shock-resistant case for safe, dust & water-proof storage, convenient organization and easy transport of the AutoBoreWelder 3000 System components.

**Product Warranty:** Climax warrants that all new machines are free of defects in materials & workmanship for a period of one year after delivery. Within the warranty period, Climax will, at its option, either repair or replace the defective machine.

**Product Training:** AutoBoreWelding training classes are offered by the Portable Machining Training Institute located at Climax World Headquarters in Newberg, Oregon. Contact Climax for a Training Institute Brochure.



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Portable Machine Tools, Inc.

Bringing the solution to you.

### Ordering Information

**40016** AutoBoreWelder 3000 Package-152mm (6") stroke, 120/230 VAC 50/60 Hz, Auto Sensing

#### Includes:

- BoreWelder with auto-skip & wire feeder
- Premium torch pkg.: #00, #0, #1, #2, #3, #4, #5
- Control Box
- Cables & conduits
- Adjustable base & mounting hardware
- Extension arms: 1 each: 76mm (3"), 152mm (6"), 305mm (12"); 2 each: 457mm (18")
- Operating manual
- Tool Kit
- Starter consumables package
- Welding gloves
- Heavy-duty carrying case
- This package provides a torch range of 22-330mm (0.88-13") Optional torches can be ordered to extend this range.

The AutoBoreWelder 3000 comes standard in a 152mm (6") stroke model. This AutoBoreWelder can be converted to a 305mm (12") stroke using the extended stroke accessory (PN 29627) listed below. This accessory must be added when placing your initial order.

### Accessories

#### Torches

- 27013** Trammel O.D. Torch Package
- 28186** Face Torch Package
- 28020** Conical Seat Torch Package
- 38506** Ext. Diameter Trammel Torch

#### Torch Accessories

- 36170** Adapter: Standard Torch to Trammel & Face Torch
- 30756** Torch Counterbalance
- 33256** Torch Extension Support
- 32699** Hand Held MIG Gun
- 36169** Stick Electrode Holder

#### Torch Extensions

- 29038** 76mm (3") Extension
- 29039** 152mm (6") Extension
- 29040** 305mm (12") Extension
- 29065** 457mm (18") Extension

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#### Corporate Headquarters

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### Specifications

Welding Process: . . . . .MIG (GMAW)

Axial Travel: . . . . .152mm (6.0") or 305mm (12.0") with extended stroke accessory listed below (PN 29627)

Step Range: . . . . .1mm - 5.6mm (0.040" - 0.220")

Wire Diameter Range: . . . . .0.58mm - 1.14mm (0.023" - 0.045")

Amperage Rating: . . . . .175A

Continuous Length of Standard

Package Extension Arms: . . . . .1 each: 76mm (3"), 152mm (6"), 305mm (12"); 2 each: 457mm (18")

Total Extended Reach: . . . . .145mm (57") Standard

Package Torches Included: . . #00, #0, #1, #2, #3, #4, #5;

Torch Range: 22mm (0.88") to 330mm (13") (Range can be extended to 1,372mm (54") with optional torches

Control Box Power Requirements: 120 VAC 50/60Hz or 230 VAC 50/60 Hz

Wire Feeder: 4-roll drive system accepts standard 13.6 Kg (30lb) spools

Power Supply Requirements: Recommended 300 Amp Rating CV power source with remote voltage control capability (power supply not included in AutoBoreWelder 3000 System package)

#### Other Accessories

- 30792** Welding Wire, Cast Controlled, 0.035, 33 lb Spool National Standard -ER70-S6
- 28209** Diffusers - Pack of 5
- 40424** Liner .023/.045, 4.8M (16') length
- 40439** Set-up & Operations Video
- 38276** Welding Ground Wire with Clamp, 11.3m (37 ft)
- 28018** Push/Pull Power Feed System
- 34387** Gas Regulator
- 29627** Extended Stroke Accessory: Extends Stroke from 152mm (6") to 305mm (12")(other lengths available)

#### Tips

- 34399** .030 - Pack of 25
- 31893** .035 - Pack of 25
- 34926** .045 - Pack of 25
- 29769** #00 .035 - Pack of 5
- 34925** #00 .045 - Pack of 5
- 29770** #0 .035 - Pack of 5
- 34586** #0 .045 - Pack of 5

#### Nozzles

- 29771** Standard - Pack of 5
- 36530** #00 - Individual
- 36531** #0 - Individual

#### Boring Machine Interface Kits

- 26795** Climax BB3000 Boring Machine Interface Kit
- 36059** Climax BB4000 Boring Machine Interface Kit
- 26518** Climax BB5000 Boring Machine Interface Kit

#### Mounting Hardware

- 29037** Adj. Base 30773 Mounting Rod
- 30831** Mounting Rod Extender
- 28208** Radial Mount 127mm (5")
- 31411** Radial Mount Opposite
- 35006** Radial Mount - 254mm (10mm)

#### Power Supplies

- 38906** Power Supply, 208-575V, 50/60 Hz
- 38907** Power Supply, 208-575V, 50/60 Hz as above but with w/Aux 120V Outlet



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