QUALITY
BORE REPAIR
SOLUTIONS

Professional bore welders, boring bars and accessories

BORE REPAIR
Systems, Inc.
THE BEST OR NOTHING

Value - Experience - Service - Support
www.borerepair.com - 603-835-2409 int'l - 800-650-1005 USA/CAN
Introducing our elegantly simple, ultra reliable bore welders and boring bars for top quality bore repairs on all types of machinery.

- The BOA-408i Bore welder

- The BOA-M1 Bore welder

Bore welder and boring bar are integrated with our center mount system. This gives unparalleled ease of setup and use on all makes, models and types of equipment.

- The EV Boring bar

The professional’s choice... worldwide.

Value - Experience - Service - Support

www.borerepair.com - 603-835-2409 Int’l - 800-650-1005 USA/CAN
Bore Repair Systems, Inc. equipment is designed by users, for users. This is why our systems are the only portable bore repair systems that are built with the TOP 10 most valuable features in the industry.

### TOP 10 LIST OF MOST VALUABLE FEATURES FOR EASY BORE REPAIR

1. Pass-thru drive design on both bore welder and boring bar - you will not have to re-mount the boring bar or welder drive when working on widely spaced bores on heavy equipment.

2. Telescoping and reversible welding gun - no clumsy welding gun extensions are required when welding multiple inline bores.

3. Center-mount bore welder to boring bar interface - simply attach your bore welder directly on centerline of boring bar with no centering or re-alignment needed.

4. Mechanical axial feed can never get out of calibration - no chance of weld penetration problems with a BOA.

5. Unique standard adjustable welding gun has the largest diameter range range in the industry - no need for multiple welding guns.

6. Welding gun nozzles are electrically isolated and will not ‘arc out’ when making contact with bore wall.

7. Standard welding guns utilize inexpensive and easy to change thread-on welding tips and nozzles.

8. Dual tool ports on boring bars - enables easy, accurate bore diameter measurements and tool adjustments, without having to remove bar or cutter.

9. Mechanical feed system on all boring bar drives - fixed or variable feed rates run in direct conjunction with bar rotation providing smoothest possible surface finishes.

10. Infinitely adjustable rotation speeds on boring bar drives enable use of wide variety of cutters including carbide, high speed steel and snap-ring cutters.

### CUSTOMER COMMENTS:

> *Rick from Smitty’s writes:*  
"We absolutely love our Bore Repair System. We’ve been doing lots of ID’s and OD’s and it just works great!"

> *MJ Carroll writes:*  
"I would not trade my BOA bore welder for anything, it is that good."

> *Turner Diesel writes:*  
"I am amazed at how great our BOA bore welder works, it’s been a real asset to our business."

> *Gary from Clark’s Repair writes:*  
"Man I love my Bore Repair System, it just works great."

> *Dan A. writes:*  
(After 5 years of ownership) "I use my BOA bore welder all the time and am considering adding a second machine soon...It has been an excellent addition to my business and always works for me and does a great job."

> *Joe L. writes:*  
"I purchased one of your BRS3 welding/boring systems from you and just wanted to let you know that it is everything you said it was, I am very pleased with it, and thank you."

> *Peter M. writes:*  
"The BRS3 boring and welding system I purchased from you works great. You have a very good product."

All of us at Bore Repair Systems, Inc. look forward to working with you and helping you with all your bore repair needs.

The professional’s choice...worldwide.

Value – Experience – Service – Support

www.borerepair.com - 603-835-2409 Int'l - 800-650-1005 USA/CAN
SETUP OF BORE REPAIR SYSTEM

#1. Center boring bar using centering kit & attach supports

#2. Insert boring bar drive and motor

#3. Machine the bore to clean and prepare for welding

#4. Insert BOA bore welder into support using interface kit

#5. Attach BOA bore welder to your MIG feeder and apply weld

#6. Slide boring bar back through supports and machine bore to size

Time is money and our integrated BRS systems saves you both. Cut welding time by 80% and machining time by 50% by using reliable, affordable Bore Repair Systems' integrated bore welder and boring bar systems.

The professional's choice...worldwide.

Value – Experience – Service – Support

www.borerepair.com - 603-835-2409 Intl - 800-650-1005 USA/CAN
Standard Boring Bar Setup

- Drive Motor: 115 or 240 volt
- Drive Gearbox
- Dual-port chrome plated Boring Bar
- Spider Support: #K94.51 (standard)
- (2) Universal Support: #K94.30 (standard)
- (2) Adjustable Sub-Plate: #K94.21 (optional)
- (2) Universal Support: #K94.30 (standard)
Inverted Boring Bar Setup

Dual-port chrome plated Boring Bar

Inverting support moves it closer to bore to be machined providing more rigid support and better machining

Drive Motor
115 or 240 volt

Drive Gearbox

Clamp Bar

Clamping Screw with Captive Nut; reversible for best access to socket head

(2) Universal Support
#K94.30 (inverted)

(2) Adjustable Sub-Plate
#K94.21 (optional)

(3) Side Adjustment Screw

(4) Leveling Screw
**Bore Welder Center Support**

- Tool-less, knurled Clamp Nut for telescoping Welding Gun
- Center Support Extender (long shown); Use short (not shown) to reach remote bores
- Bore being welded
- Boring Bar bearings remain in during welding
- Quick Connect Welding Gun
- Telescoping Tube - retract to weld Bore #2
- Plug-in Center Support w/calibrated dial fine tuning
- BOA-408i BoreWelder

**Typical Repair Sequence**

1. Align Boring Bar using cones for centering
2. Attach Bearing Supports
3. "Skin cut" bores to clean and make round
4. Remove Boring Bar leaving Supports in-place
5. Plug-in BoreWelder to Universal Support
6. Build up bores using BoreWelder
7. Remove BoreWelder
8. Reinstall Boring Bar
9. Machine bores to desired size
BarDrill Setup

Drive Motor 115 or 240 volt

Pilot Hole Drill w/ #3 Morse Taper

Dual-port chrome plated Boring Bar w/ number 3 Morse Taper for inserting Drills or Drill Chucks

Drive Gearbox

Manual Feed Wheel

Automatic Feed Rate Control

Adjustable Sub-Plate #K94.21

Dual Support #K94.32; Typical uses: BarDrill as shown - Blind holes - Extra bar support
Universal Support Kits K94.30 & K94.32
Mount Configurations

**K94.30 Standard Support Setup**
- **Hold-Down Stud**
- **Universal Offset Body**
- **Reversible Clamp Bolt**
- **Hold-Down**
- **Captive Clamp Nut**
- **Clamping Surface**
- **(4) Leveling Screw**

**K94.30 Inverted Support Setup**
- **Hold-Down Stud**
- **Universal Offset Body**
- **Reversible Clamp Bolt**
- **Hold-Down**
- **Captive Clamp Nut**
- **Clamping Surface**
- **(4) Leveling Screw**

**TYPICAL USES/FEATURES**

- **Standard Single Support**
  - Most outboard locations where bore is near mounting surface
  - Mount drive on either Outer or Inner Mounting Surface
  - Supports Spherical Bearing

- **Inverted Single Support**
  - Use when bore is inboard from mounting surface
  - Mount drive on either Outer or Inner Mounting Surface
  - Supports Spherical Bearing

- **Double Support**
  - Use when extra bar stiffness is needed, such as blind holes or bores located far from support
  - Can be used as a drill press with special Morse Taper Bar
  - Mount drive or bearing at either clamping location

- **Reversible Clamp and Joining Bolts**
  - Allows access to bolt head from either side
  - Clamp Nut captive on either side so second wrench not needed

- **Anchor Point (normally weld or use #K94.21 adjustable support)**

**K94.32 Dual Support Setup**
- **Hold-Down Stud**
- **Universal Offset Body**
- **Reversible Clamp Bolt**
- **Hold-Down**
- **Captive Clamp Nut**
- **Clamping Surface**
- **(4) Leveling Screw**

- **(3) Joining Bolt**
- **Spherical Bearing**
- **(3) Captive Joining Nut**

**Select Mount Configuration**
- Standard Single Support
- Inverted Single Support
- Double Support
- Reversible Clamp and Joining Bolts

**Use Cases**
- Most outboard locations where bore is near mounting surface
- Use when bore is inboard from mounting surface
- Use when extra bar stiffness is needed
- Can be used as a drill press with special Morse Taper Bar

**Detailed Configurations**
- Standard Single Support
- Inverted Single Support
- Double Support
- Reversible Clamp and Joining Bolts

**Component Details**
- **Hold-Down Stud**
- **Universal Offset Body**
- **Reversible Clamp Bolt**
- **Hold-Down**
- **Captive Clamp Nut**
- **Clamping Surface**
- **(4) Leveling Screw**
- **(3) Joining Bolt**
- **Spherical Bearing**
- **(3) Captive Joining Nut**

**Mounting Surfaces**
- **Outer Mounting Surface**
- **Inner Mounting Surface**
Spider Support K94.51
Mount Configurations

- **Clamp Lock Bolt** allows very rigid support
- **Tack Weld surface**
- **Leg - Pivot as needed**
- **Clamp Surface for Spherical Plain Bearing or Drive Gearbox**
- **Level Lock Nut**
- **Cone Nut Receiver Bevel**
- **Leveling Screw**
- **Cone Nut**
- **Attachment Radius 2.9” (73mm)**
- **Max. attachment radius 5.4” (137mm)**
- **Attachment radius 4.0” (102mm)**
- **Max. attachment radius 6.5” (165mm)**
The BOA-408i automatic bore welding system is designed for users who demand durability, ease of setup and precision without unnecessary complication.

Coupled with one of Bore Repair Systems’ boring bars and new Center Support System, it will provide you with a means of repairing worn bores on all types of equipment in the fastest, most efficient way possible. Awarded numerous design patents, owners of our BOA systems quickly realize they made the right decision when choosing Bore Repair Systems’ products. The BOA systems are the simplest to set up, the simplest to use and offer the highest levels of precision all at very reasonable prices.

The BOA-408i is conveniently offered in 5 packages, ranging from the basic BOA-408i S1 for internal bore buildup to the fully loaded BOA-408i S5 which features all the upgrades available including long stroke, auto-skip, face welding, outside diameter welding and even a BOA-M1 compact bore weld drive head and gun assembly.

The BOA-408i bore welder system is also offered in complete, turnkey kit form with integrated boring bar system. See our BRS2-BRS7 integrated bore welding and machining systems.

Already own a boring bar system but need to automate your bore welding process? The BOA-408i is for you too. Any BOA-408i system is available with boring bar interface kits to fit any brand boring bar system that you may now own.

Bore Repair Systems, Inc. offers many convenient purchase plans including rent-to-own and lease finance options. Contact us today at 603-835-2409 or visit our website at www.borerepair.com.
BOA-M1 Bore Welding System
(our most compact and affordable bore welding system)

The BOA-M1 basic bore welding system is Bore Repair Systems’ most compact and affordable bore welder. The welder drive and spindle assembly will fit nearly anywhere at just under 280mm (11.0”) long.

The BOA-M1 basic package is extremely versatile. With standard components, it can reach bores nearly 610mm (24”) away from its’ mount location, or bores over 1.2m (48”) apart from one another when mounted between bores.

The BOA-M1 design is elegantly simple and extremely durable, very easy to set up and operate. It utilizes the same gun and conduit system as the BOA-408i so parts are interchangeable.

While the BOA-M1 bore welding system is a popular choice with our existing BOA-408i and BOA-550HD customers who are interested in a second bore welder that can fit in tight, restricted access bore repair jobs, it is also very popular with our new customers who are just starting out who need a bore welder that will give top quality professional results at the lowest possible entry price.

The BOA-M1 comes complete with a hand feed wheel and rotation speed timer with chart. This ensures smooth, even weld bead application every time. The BOA-M1 can also be easily driven automatically with a basic hand drill or for maximum versatility you can add our automatic stepper drive kit.

Please call us today at 603-835-2409 or visit our website at www.borerrepair.com Several purchase and leasing options are available.

Www.BoreRepair.com
STANDARD GUN (for 308i) - A113
STANDARD GUN (for 408i & M1) - A313
SHORT GUN (for 408i & M1) - A328

Standard Guns Diameter range: 1.25 to 8" (32 to 203mm)
Short Gun Diameter Range: 1.25 to 4" (32 to 101mm)
Short Gun 3" (76mm) shorter than standard for use in tight locations.

FEATURES OF ALL OF OUR GUNS:
- Quick install on BOA-308i, 408i, 450HD, M1 & L34 Bore Welders
- High electrical & thermal conductivity to help maintain an efficient and safe operating temperature
- Lightweight aluminum construction
- Weld in any position
- Covered by several USA Patents
- Electrical isolation of nozzles and use of standard tips for all bores larger than 1.2" (30mm)

OD GUN (for 308i) A114
OD GUN (for 408i & M1) A317
Diameter range: 1 to 12" (25 to 305mm)
Custom sizes available

HI-AMP GUN (for 308i) A135
HI-AMP GUN (for 408i, M1 & L34) A344
Minimum Diameter - 4" (101mm)

LARGE DIAMETER GUN (for 308i) A115
LARGE DIAMETER GUN (for 408i & M1) A310
Diameter range: 8 to 15" (200 to 380mm)
Diameter range with extenders: to 48" (1220mm)

HAND-HELD GUN (for 408i & M1) A333
Easily connects to Bore Welder conduit, eliminating the need to carry an extra gun and conduit.

BORE REPAIR SYSTEMS, INC.
web: borerepair.com
(800)650-1005 & (603)835-2409
FACE GUN - K13.10

**FEATURES:**
- Lightweight
- Adjusts easily to the desired welding position
- Weld either inward or outward
- Weld faces up to 24\" diameter
- Quick install on 308i, 408i & M1
- High electrical and thermal conductivity to maintain a low operating temperature
- Covered by USA Patent No. 6,486,438 et al

GUN DIAMETER EXTENSIONS K13.12

**FEATURES:**
- Comes with 2 extensions
- Each extension adds 5" (127mm) to the maximum diameter capability of the gun
- Gun liner removal not required
- Use with Large Diameter Gun

BEAM GUN - K13.11

**FEATURES:**
- Aluminum tube construction makes the torch extremely rigid and durable yet lightweight
- Can weld both ID's and OD's (48" maximum)
- Quick install on 308i, 408i & M1
- High electrical and thermal conductivity to maintain a low operating temperature

GUN REACH EXTENSIONS

A309 [6" (152mm)]
A335 [10" (254mm)]

**FEATURES:**
- Liners contained in extensions
- Can be used with all guns on 408i and M1 machines
- Quick connection and angular orientation with captive nuts
- Constructed with light, highly conductive aluminum with brass fittings
BORE WELDER SUPPORT OPTIONS

FULLY ADJUSTABLE BASES
"T" BASE (for 408i) - K11.11
"A" BASE (for M1) - K31.21
Allows full adjustment to bore:
- Leveling
- Centering
Also repeatable angular positioning

UNIVERSAL HEX MOUNT for BOA-M1 - K31.10
- Compact and easy to use
- Can be aligned directly from boring bars

QUICK CONNECT CENTER SUPPORT KIT
for BOA-408I - K11.21 | for BOA-M1 - K31.11
- Set-up quickly with no guesswork
- Centers directly from boring bar bearing mounts
- Adjustments made directly using off-set dial

BORE REPAIR SYSTEMS, INC.
web: borerepair.com
(800)650-1005 & (603)835-2409
The Bore Repair Systems, Inc. BOA-C45 portable line boring systems are simple to use in the field and shop, rugged and extremely accurate. From the C45 precision hardened and chromed boring bars with staggered dual tool ports and morse taper end to the unique external ratcheting, variable rate cam feed, tuneable ID bar support bearings and standard cone tightening system, the BOA-C45 line boring system will provide you with the features needed to quickly and accurately repair worn bores from under 1” to over 10” diameter on all types of equipment in a variety of industries. And while the BOA-C45 series line boring system features a powerful 3.3hp reversible, variable speed motor, the standard bar drive is a compact 15” wide* including the feed screw. The C45 system also features the popular pass-through drive design allowing placement between bores, in tight-access spots, or to be used on tricky “blind bore” jobs or jobs where there are multiple bores in a line. The unique, dis-engagable feed arm allows simple tool repositioning without removing the tool from the bar….a feature not possible with old-fashioned traditional end-drive boring systems. Add one of Bore Repair’s automatic bore welding systems for maximum efficiency and productivity on all your bore repair jobs.

**BOA-C45 boring system includes the following standard equipment:**

- 3.3Hp reversible, adjustable drive motor (120v or 240v)
- 1.75” x 72” long chrome, dual-tool ported boring bar
- (2) one-arm adjustable boring bar / boring bar gearbox / bore welder drive supports including (2) bearing inserts
- (1) compact boring bar / boring bar gearbox / bore weld drive support
- Sharpened cobalt/HSS cutting bit (1/2”) for ID and faces
- Quick-change feed screw
- Mounting plate kit for use with one-arm supports
- Star-drive motor to gearbox interface

**BOA-C45 boring system optional accessories:**

- BOA-408i and BOA-M1 integrated bore welding kit
- Large range bore head (for cutting to 356mm (14”) bores
- Small bore kit (for cutting down to 35mm (1.4”) bores
- Micro bore kit (for cutting down to 25mm (1”) bores
- Internal automatic snap-ring groove cutting system
- Automatic, low-profile face-machining kit
- Manual compact “plunge” face-machining kit
- Pass-through, reversible, variable axial feed boring bar drive gearbox
- Centering cone package with tightened kit
- Extended range boring head
- Diamond plate carry/storage case
- Tool kit including allen wrench set and nut driver
- Protective sleeve with thread-off ends for boring bar
- Metric/Imperial scale
- Setup manual in print and DVD
- One-year warranty
- Upgrade from electric to hydraulic drive any time

**MADE IN THE U.S.A.**

See more at: www.borerepair.com

Pat. 6,137,076 Pat. 6,448,531 Pat. 6,737,608
Pat. 6,284,995 Pat. 6,486,438

Bore Repair Systems, Inc.

08/2017

Langdon, NH 03602 USA

Tel: (603) 835-2409
Fax: (603) 835-2609
The Bore Repair Systems, Inc. model BB6 portable line boring system is simple to use, rugged and extremely accurate. From its precision hardened and chromed boring bars with dual tool ports to the adjustable, remote-mountable mechanical feed gearbox, tunable ID bar support bearings and standard cone tightening system, the BB6 line boring system will provide you with the tools needed to repair worn bores from under 1.4” to over 18” diameter on all types of equipment with ease and precision. And while the BB series line boring system features a powerful 3.3hp reversible, variable speed motor, the bar drive is a compact 12” wide. The BB6 system also features the popular pass-through drive design allowing placement between bores, or to be used on tricky “blind bore” jobs or on jobs where there are multiple bores in a line, the feed arm allows simple tool repositioning without removing the tool from the bar…a feature not possible with traditional end-drive boring systems. Add one of Bore Repair’s automatic bore welding systems for maximum efficiency and productivity on all your bore repair jobs.

**Model: BB6**

**Bore machining package—for machining bores from 1.4” to 18”**

(Order #K09.15) Package (shown in photo above) includes:

- 3.3Hp reversible, adjustable drive motor (120v or 240v)
- Pass-through, remote mount adjustable feed gearbox
- (3) boring bar / boring bar drive supports
- Setup sleeve for support alignment
- Sharpened cobalt/HSS cutting bits (1/2” and 3/8”)
- (2) bar kit, 6’ x 1.75” and 1.25” diameter with reducers
- Pass-through, reversible boring bar drive gearbox
- Centering cone package with tightener clamp
- (6) Extended range boring heads
- Necessary wrenches
- Diamond plate carry/storage cases
- Adjustable feed travel stop arm

**TIP: Don’t need to machine any bores smaller than 2.5”? Bore Repair Systems, Inc. also offers the BB6 Boring system is also available without the small (1.25”) bar package.**

Popular accessories to further enhance your BB6 line boring system include: # 9260 face machining head, #K94.21 adjustable base plate kit, #K92.10 ID bore measure kit and #K93.26 digital tool bit adjuster kit and bore welding package.
**BORE MEASURING KIT**

**K92.10**

Features:
- Kit Diameter Range: 1.7 to 14 inches (42 to 355mm)
- Additional spacers available for larger diameters
- Works in 3/8 and 1/2 inch, and 10, 12, 16mm tool holes
- Durable large diameter plungers
- Stainless steel construction
- No tools needed for most bores
- Comes in durable case with special nesting and adapters for two tooling sizes

**Easy to Use:**
1. Insert measuring tool through a tool hole in the boring bar
2. Extend the tool into the bore
3. Snap open the measuring tool
4. Retract the bar
5. Measure the tool length

**TIGHT BORE MEASURING KIT**

**K92.20**

Features:
- Measure bore diameters equal to bar size, to bar size plus .3 inches (12mm)
- Durable large diameter plungers
- No tools needed
- Kits for all bar and tool sizes available
- Patent Pending

**MULTI-FUNCTION TOOL ADJUSTER**

Pull Tool Configuration

Available for the following Tooling Sizes:
1. 1/4" square > K93.05 (Body Only #A903)
2. 3/8" square > K93.11 (Body Only #A904)
3. 1/2" square > K93.12 (Body Only #A905)
4. 10mm square > K93.13 (Body Only #A906)
5. 12mm square > K93.14 (Body Only #A907)
6. 15mm round > K93.15 (Body Only #A908)
7. 3/8" & 1/2" sq > K93.16

All kits include a Tool Adjuster Body, a Barrel Micrometer, a Multi-Function Tool Adjuster Support, and a Carrying Case and Tools

Push Tool Configuration (Single Tool Hole Bar)

**CARBIDE TOOLING KIT**

Features:
- Special low-profile design works with Bore Repair K93 tool adjuster
- Available in 3/8" and 1/2" square
- A variety of carbide grades are available allowing various materials to be machined

3/8" Tool - K91.10 | 1/2" Tool - K91.11

**PRE-SHARPENED HIGH-SPEED STEEL BITS**

Features:
- Wide cutting edge allows both ID and spot facing for easy face touch-up
- Design of the grind offers easy sharpening using a standard bench grinder
- Special grind for longer edge life and cleaner cut

3/8" Square Bit - #9088 | 1/2" Square Bit - #9087

**BORE REPAIR SYSTEMS, INC.**

www.borerepair.com
(800)650-1005
(603)835-2409
BORING BAR SUPPORT KIT
(K94.20)*

KIT INCLUDES:
(2) A910 Drive Support & Spherical Support Adjuster Plate Assemblies
(1) 9194 Alignment Sleeve

Set-Up Steps:
1. Tack weld or clamp the Adjuster Plate Assemblies adjacent to the bores to be repaired. (The plates should be approximately perpendicular to the bore axis, and with the clamping bolt 5° from the bore centerline.)
2. Attach the Drive Support as shown, and the Spherical Support (not shown) to the Adjuster Plate.
3. Adjust as necessary using the "jack" bolts to achieve the desired bore alignment.
4. Insert the Alignment Sleeve into the Drive Support as shown.
5. Slide the Boring Bar through the Alignment Sleeve and the Spherical Support.
6. Tighten the Strap Clamp.

Kit Assembled on Drive-End

(1 3/4"x6"

Arm With Bore to be Repaired

Strap Clamp

Alignment Sleeve

Drive Support Plate; Tack Weld In-Place

FOR THE FOLLOWING SIZE BARS
1 1/4" Bars 1 3/8" to 5 1/2" Bore K94.10
1 3/4" Bars 1 7/8" to 10" Bore K94.11
1 1/4" & 1 3/4" 1" to 10" Bore K94.12
2" Bars 2 1/8" to 10" Bore K94.13
2 1/4" Bars 2 3/8" to 10" Bore K94.14

BORING BAR ALIGNMENT KIT

Set-Up Step #1:
1. Assemble 2 sets of Rings, Standoffs, and Screws as shown.
2. With the Rings on the Boring Bar, tack weld Standoffs to the Bore Faces so that the Rings are approximately centered.

FEATURES
- Low Profile
- Easy Alignment to Other Bores
- Allows Precision Alignment
- Great for Alignment to Out-of-Round Bores

Set-Up Step #2:
1. Retract the Adjuster Screws from the Threaded Holes in the Adapter Ring and rotate the Adapter Ring until the Adjuster Screws are no longer aligned with the Thread Holes.
2. Align the Boring Bar as required using the Adjuster Screws. (If the Bore is round, it is sometimes helpful to insert a Cutting Tool and measure the distance from the Cutting Tool to the Bore in order to assure proper alignment.)

FOR THE FOLLOWING BAR SIZES
1 1/2" Bars K96.10
1 3/4" Bars K96.11
2" Bars K96.12
2 1/4" Bars K96.13

ID GROOVE CUTTER

FEATURES
- Cutter fits in 1/2" tool holes in boring bars
- High speed steel cutting bits
- Cuts grooves in bores from 2.5" to 6" (64 to 152mm)
- Very compact - can be used in confined spaces

BORER REPAIR SYSTEMS, INC. (800)650-1005 & (603)835-2409
web: borerepair.com
## BOA-408i Bore welder packages

### Equipment list 8/2017

<table>
<thead>
<tr>
<th>BOA-408i S5 Auto BoreWelder</th>
<th>BOA-408i S4 Auto BoreWelder</th>
<th>BOA-408i S3 Auto BoreWelder</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Capabilities:</strong></td>
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</tr>
<tr>
<td>I.D. Weld range: 20mm-1.2m (8.48&quot;)</td>
<td>I.D. Weld range: 20mm-914mm (8-48&quot;)</td>
<td>I.D. Weld range: 20mm-914mm (8.31&quot;)</td>
</tr>
<tr>
<td>O.D. Weld range: 20mm-1.02m (8-40&quot;)</td>
<td>O.D. Weld range: 20mm-914mm (8-36&quot;)</td>
<td>O.D. Weld range: 20mm-305mm (8-12&quot;)</td>
</tr>
<tr>
<td>Face Welding: 20-610mm (8.4&quot;&quot;) diameter</td>
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<td>Face Welding: 20-610mm (8.4&quot;&quot;) diameter</td>
</tr>
<tr>
<td>Stroke: 318mm (12.5&quot;&quot;)</td>
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</tr>
<tr>
<td>Long-duration welding at high amperage</td>
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</tr>
<tr>
<td>Auto-weld skip for partial bore welding</td>
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<td>Auto-weld skip for partial bore welding</td>
</tr>
<tr>
<td>Can weld in compact spaces (use BOA-M1 drive)</td>
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</tr>
<tr>
<td>Can weld two bores at once (2 feeders needed)</td>
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</table>

### Standard equipment:

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<thead>
<tr>
<th>BOA-408i S5 Auto BoreWelder</th>
<th>BOA-408i S4 Auto BoreWelder</th>
<th>BOA-408i S3 Auto BoreWelder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding gun drive 120v/240v AC automatic</td>
<td>Welding gun drive 120v/240v AC automatic</td>
<td>Welding gun drive 120v/240v AC automatic</td>
</tr>
<tr>
<td>Long stroke telescopic ball spindle</td>
<td>Long stroke telescopic ball spindle</td>
<td>Long stroke telescopic ball spindle</td>
</tr>
<tr>
<td>Standard weld gun assembly</td>
<td>Standard weld gun assembly</td>
<td>Standard weld gun assembly</td>
</tr>
<tr>
<td>Heavy duty conduit with remote weld switch</td>
<td>Heavy duty conduit with remote weld switch</td>
<td>Standard conduit with remote weld switch</td>
</tr>
<tr>
<td>Standard extension tube assembly</td>
<td>Standard extension tube assembly</td>
<td>Standard extension tube assembly</td>
</tr>
<tr>
<td>Micro weld gun assembly</td>
<td>Micro weld gun assembly</td>
<td>Micro weld gun assembly</td>
</tr>
<tr>
<td>Weld gun extensions, 152 &amp; 254mm (6 &amp; 10&quot;)</td>
<td>Weld gun extensions, 152 &amp; 254mm (6 &amp; 10&quot;)</td>
<td>Weld gun extensions, 152 &amp; 254mm (6 &amp; 10&quot;)</td>
</tr>
<tr>
<td>Bore welder support tube</td>
<td>Bore welder support tube</td>
<td>Bore welder support tube</td>
</tr>
<tr>
<td>Radial support arm</td>
<td>Radial support arm</td>
<td>Radial support arm</td>
</tr>
<tr>
<td>Necessary tools</td>
<td>Necessary tools</td>
<td>Necessary tools</td>
</tr>
<tr>
<td>Deluxe consumables kit</td>
<td>Deluxe consumables kit</td>
<td>Standard consumables kit</td>
</tr>
<tr>
<td>Diamond plate carry case</td>
<td>Diamond plate carry case</td>
<td>Diamond plate carry case</td>
</tr>
<tr>
<td>Users and setup manual</td>
<td>Users and setup manual</td>
<td>Users and setup manual</td>
</tr>
<tr>
<td>Outside diameter welding gun</td>
<td>Outside diameter welding gun</td>
<td>Outside diameter welding gun</td>
</tr>
<tr>
<td>Adjustable “T” base and tack plate kit</td>
<td>Adjustable “T” base and tack plate kit</td>
<td>Adjustable “T” base and tack plate kit</td>
</tr>
<tr>
<td>Large diameter welding gun</td>
<td>Large diameter welding gun</td>
<td>Large diameter welding gun</td>
</tr>
<tr>
<td>Large diameter welding gun extenders (2)</td>
<td>Large diameter welding gun extenders (2)</td>
<td>Large diameter welding gun extenders (2)</td>
</tr>
<tr>
<td>Radial extenders for large diameter reach (3)</td>
<td>Radial extenders for large diameter reach (2)</td>
<td>Radial extenders for large diameter reach (2)</td>
</tr>
<tr>
<td>Face welding gun kit</td>
<td>Face welding gun kit</td>
<td>Face welding gun kit</td>
</tr>
<tr>
<td>Handheld welding gun with quick connect</td>
<td>Handheld welding gun with quick connect</td>
<td>Handheld welding gun with quick connect</td>
</tr>
<tr>
<td>Beam gun kit for large ID and OD welding</td>
<td>Beam gun kit for large ID and OD welding</td>
<td>Beam gun kit for large ID and OD welding</td>
</tr>
<tr>
<td>Low-speed kit for precision control in large bores</td>
<td>Low-speed kit for precision control in large bores</td>
<td>Low-speed kit for precision control in large bores</td>
</tr>
<tr>
<td>BOA-M1 compact bore welder</td>
<td>BOA-M1 compact bore welder</td>
<td>BOA-M1 compact bore welder</td>
</tr>
<tr>
<td>Hex BOA-M1 borerwelder support kit</td>
<td>Hex BOA-M1 borerwelder support kit</td>
<td>Hex BOA-M1 borerwelder support kit</td>
</tr>
<tr>
<td>Compact gun extension tube assembly</td>
<td>Compact gun extension tube assembly</td>
<td>Compact gun extension tube assembly</td>
</tr>
<tr>
<td>Standard conduit assembly</td>
<td>Standard conduit assembly</td>
<td>Standard conduit assembly</td>
</tr>
<tr>
<td>Short telescopic ball spindle</td>
<td>Short telescopic ball spindle</td>
<td>Short telescopic ball spindle</td>
</tr>
<tr>
<td>Stub weld gun assembly</td>
<td>Stub weld gun assembly</td>
<td>Stub weld gun assembly</td>
</tr>
<tr>
<td>Auto-Skip feature installed for partial bore weld</td>
<td>Auto-Skip feature installed for partial bore weld</td>
<td>Auto-Skip feature installed for partial bore weld</td>
</tr>
</tbody>
</table>

### Order

<table>
<thead>
<tr>
<th>BOA-408i S5 Auto BoreWelder</th>
<th>BOA-408i S4 Auto BoreWelder</th>
<th>BOA-408i S3 Auto BoreWelder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order #K01.50</td>
<td>Order #K01.40</td>
<td>Order #K01.30</td>
</tr>
</tbody>
</table>

### Note:

All BOA-408i bore welder systems feature the pass-through drive system design. This enables simple bore-to-bore transitions by simply telescoping or retracting the bore welder gun extension assembly. The BOA-408i may also be mounted between a set of bores, and can weld our either end of the bore welder. This is a very handy feature for working on bores such as those found on the front of a pay loader because by center mounting the BOA-408i drive, only one setup is required to weld both left and right side bores. Diameter adjustment is a snap with the BOA torch pivot mechanism, also included with all BOA-408i bore welder systems.

All BOA-408i bore welder systems may be equipped with the bore welder to boring bar interface for true plug and play simplicity. Once the Bore Repair Systems, Inc. boring bar is set up, the bore welder simply plugs in to the boring bar support.

All BOA-408i bore welder systems feature self-lubricating, maintenance-free, self lubricating spindle bearings, clutched chain drive and simple, durable on-board control eliminating the need for control cables or control box.

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Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438

Bore Repair Systems, Inc.
97 Lower Cemetery Road
Langdon, NH 03602 USA
Borerrepair.com - 603-835-2409
Fax: 603-835-2609
## Equipment list 8/2017

<table>
<thead>
<tr>
<th>BOA-408i S2 Auto BoreWelder</th>
<th>BOA-408i S1 Auto BoreWelder</th>
<th>BOA-M1 BoreWelder</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Capabilities:</strong></td>
<td><strong>Standard Capabilities:</strong></td>
<td><strong>Standard Capabilities:</strong></td>
</tr>
<tr>
<td>I.D. Weld range: 20mm-533mm (.8-21&quot;)</td>
<td>I.D. Weld range: 20mm-356mm (.8-14&quot;)</td>
<td>I.D. weld range: 32mm-203mm (1.2—8.0&quot;)</td>
</tr>
<tr>
<td>Stroke: 178mm (7&quot;)</td>
<td>Stroke: 178mm (7&quot;)</td>
<td>Stroke: 260mm (10.25&quot;)</td>
</tr>
<tr>
<td>Standard-duration welding</td>
<td>Standard duration welding</td>
<td>Standard amperage operation</td>
</tr>
<tr>
<td>Standard amperage welding</td>
<td>Standard amperage operation</td>
<td>Ability to weld in compact spaces</td>
</tr>
<tr>
<td>Adjustable mounting feature enabling stand-alone operation or use with any boring bar</td>
<td>Stationary mounting (system usually purchased with optional boring bar and boring bar adapter)</td>
<td>Ability to weld from either end or side of gun drive</td>
</tr>
<tr>
<td>Pass-through gun drive with tool-less telescoping feature and full, tool-less reversibility</td>
<td>Pass-through gun drive with tool-less telescoping feature and full, tool-less reversibility</td>
<td>Reach: 965mm (38&quot;) (from one end) (1.19m (76&quot;) total reach if gun extender is reversed)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Standard equipment:</strong></th>
<th><strong>Standard equipment:</strong></th>
<th><strong>Standard equipment:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding gun positioner 120v/240v AC, automatic</td>
<td>Welding gun positioner 120v/240v A/C, automatic</td>
<td>Welding gun positioner, semi-automatic</td>
</tr>
<tr>
<td>Standard stroke telescopic ball spindle</td>
<td>Standard stroke telescopic ball spindle</td>
<td>Standard stroke ball spindle</td>
</tr>
<tr>
<td>Standard weld gun assembly</td>
<td>Standard weld gun assembly</td>
<td>Standard weld gun assembly</td>
</tr>
<tr>
<td>Standard conduit with remote weld switch</td>
<td>Standard conduit with remote weld switch</td>
<td>Standard gun extension tube assembly</td>
</tr>
<tr>
<td>Standard gun extension tube assembly</td>
<td>Standard gun extension tube assembly</td>
<td>Necessary tools</td>
</tr>
<tr>
<td>Micro weld gun assembly</td>
<td>Micro weld gun assembly</td>
<td>Gun rotation handwheel</td>
</tr>
<tr>
<td>Weld gun extension 254mm (10&quot;)</td>
<td>Weld gun extension, 152mm (6&quot;)</td>
<td>Adjustable Hex mounting base kit</td>
</tr>
<tr>
<td>Bore welder support tube</td>
<td>Bore welder support tube</td>
<td>Remote control wire feeder contactor</td>
</tr>
<tr>
<td>Radial support arm</td>
<td>Radial support arm</td>
<td>Rotation speed timer tool</td>
</tr>
<tr>
<td>Necessary tools</td>
<td>Necessary tools</td>
<td>User’s and setup guide</td>
</tr>
<tr>
<td>Standard consumables kit</td>
<td>Standard consumables kit</td>
<td>Carry case with custom nesting</td>
</tr>
<tr>
<td>Diamond plate carry case</td>
<td>Diamond plate carry case</td>
<td>Standard consumables kit</td>
</tr>
<tr>
<td>Users and setup manual</td>
<td>Users and setup manual</td>
<td></td>
</tr>
<tr>
<td>Adjustable “T” base and tack plate kit</td>
<td>(auto compact stepper motor drive kit available)</td>
<td></td>
</tr>
<tr>
<td>Large diameter welding gun</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8’ Radial extender for large diameter reach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handheld welding gun with quick connect</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Order #K01.20 | Order #K01.10 | Order #K03.10**

**NOTE:**

All BOA-408i bore welder systems feature the pass-through drive system design. This enables simple bore-to-bore transitions by simply telescoping or retracting the bore welder gun extension assembly. The BOA-408i may also be mounted between a set of bores, and can weld our either end of the bore welder. This is a very handy feature for working on bores such as those found on the front of a gay loader because by center mounting the BOA-408i drive, only one setup is required to weld both left and right side bores. Diameter adjustment is a snap with the BOA torch pivot mechanism, also included with all BOA-408i bore welder systems.

All BOA-408i bore welder systems may be equipped with the bore welder to boring bar interface for true plug and play simplicity. Once the Bore Repair Systems, Inc. boring bar is set up, the bore welder simply plugs in to the boring bar support.

All BOA-408i bore welder systems feature self-lubricating, maintenance-free, self lubricating spindle bearings, clutched chain drive and simple, durable on-board control eliminating the need for control cables or control box.

Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438
# Lineboring bar systems

## Equipment list 8/2017

### AM7 Lineboring bar system
- **Standard Capabilities / Features:**
  - 1.D. Bore machining range 35-816mm (1.5-32”)
  - Hydraulic powered—120v, 240v or 480v pump
  - Standard reach 2.4m (96”)
  - Stroke: 280mm (11”) (infinitely re-indexable)
  - Pass-through, mount anywhere drive system
  - Dual tool ports in boring bars (enables use of optional ID snap gage w/o tool removal)
  - RPM range allows use of optional snap-ring groove cutter and face machining head
  - Smooth, simple rotation-based feed ensures smoothest possible finishes in your bores
  - Fully reversible—use left or right grind bits

### BB6 Lineboring bar system
- **Standard Capabilities / Features:**
  - 1.D. Bore machining range 35-816mm (1.5-32”)
  - Electric powered—your choice 120 or 240vac*
  - Standard reach 1.82m (72”)
  - Stroke: 457mm (18”) (infinitely re-indexable)
  - Pass-through, mount anywhere drive system
  - Dual tool ports in boring bars (enables use of optional ID snap gage w/o tool removal)
  - Broad RPM range allows use of optional snap-ring groove cutter and face machining head
  - Smooth, simple adjustable rotation based feed ensures smoothest possible finishes in your bores
  - Fully reversible—use left or right grind bits

### BB6L Lineboring bar system
- **Standard Capabilities / Features:**
  - 1.D. Bore machining range 35-816mm (1.5-32”)
  - Electric powered—your choice 120 or 240vac*
  - Standard reach 1.82m (72”)
  - Stroke: 457mm (18”) (infinitely re-indexable)
  - Pass-through, mount anywhere drive system
  - Dual tool ports in boring bars (enables use of optional ID snap gage w/o tool removal)
  - Broad RPM range allows use of optional snap-ring groove cutter and face machining head
  - Smooth, simple adjustable rotation based feed ensures smoothest possible finishes in your bores
  - Fully reversible—use left or right grind bits

## Standard equipment included:

### Order #K09.16
- Keyed, modular bar drive
- Bar axial feed arm w/ wear compensation adjustment feature
- 120v / 240v hydraulic pump unit w/10' hose kit
- (4) spherical bar supports
- (2) adjustable bar / gearbox supports
- Centering cone pack with compressor sleeve
- (4) Steel support legs & (8) Securing clamps
- Remote control pendant
- 1/2” pre-sharpened tool bit with facing grind
- Setup and users manual with video CD
- Custom carrying/storage case
- 3/8” pre-sharpened tool bit with facing grind
- Centering cone pack for 32mm (1.25”) bar
- 32mm Reducer kit for bearings & drive
- Extended range boring head package
- (3) 32mm (1.25”) diameter bars: 4”, 6” and 8” long
- (3) 50.8mm (2”) diameter bars: 4”, 6” and 8” long
- (2) hydraulic motor kit winintegrated mounting
- (all bars come with aluminum storage tubes)

### Order #K09.15
- Keyed, modular bar drive
- Bar axial feed unit with variable feed
- 120v / 240v motor with variable RPM gearbox
- (1) compact, adjustable support (spherical)
- (2) full-size, adjustable supports (spherical)
- Centering cone package
- Steel support brackets
- Integrated control box mounted on motor
- 1.8m (6”) long, 57mm (2.25”) dia. boring bar
- 1/2” pre-sharpened tool bit with facing grind
- Setup and users manual
- Custom aluminum diamond-plate case
- Remote mount kit to allow feed and rotation gearbox to be mounted independently
- Centering cone pack for 32mm (1.25”) bar
- (3) 32mm (1.25”) diameter bars: 4”, 6” and 8” long
- (3) 50.8mm (2”) diameter bars: 4”, 6” and 8” long
- (2) hydraulic motor kit winintegrated mounting
- (all bars come with chrome plated & strengthened)

### Order #K09.15L
- Keyed, modular bar drive
- Bar axial feed unit with variable feed
- 120v / 240v motor with variable RPM gearbox
- (1) compact, adjustable support (spherical)
- (2) full-size, adjustable supports (spherical)
- Centering cone package
- Steel support brackets
- Integrated control box mounted on motor
- 1.8m (6”) long, 57mm (2.25”) dia. boring bar
- 1/2” pre-sharpened tool bit with facing grind
- Setup and users manual
- Custom aluminum diamond-plate case
- Remote mount kit to allow feed and rotation gearbox to be mounted independently
- Centering cone pack for 32mm (1.25”) bar
- (3) 32mm (1.25”) diameter bars: 4”, 6” and 8” long
- (3) 50.8mm (2”) diameter bars: 4”, 6” and 8” long
- (2) hydraulic motor kit winintegrated mounting
- (all bars come with chrome plated & strengthened)

## OPTIONAL ACCESSORIES:
- Automatic bore welder & interface kit
  - ID snap gage kit
  - Tool bit adjuster package
  - Shorter boring bars (all diameters)
  - Longer boring bars (all diameters)
  - Face machining kit
  - Snap-ring groove machining kit
  - Bar coupling kit
  - Perimeter-mount bearing and machine sup.

### Equipment list 8/2017

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**Bore Repair Systems, Inc.**
97 Lower Cemetery Road
Langdon, NH 03602 USA
Borreparepair.com - 603-835-2409
Fax: 603-835-2609
### BOA-C45 Lineboring bar system

**Standard Capabilities / Features:**
- I.D. Bore machining range 24-254mm (1.8-10”)
- Electric powered—your choice 120 or 240vac
- Standard reach 1.82m (72”)
- Stroke: 280mm (10”) (infinitely re-indexable, and longer stroke options available)
- Pass-through, mount anywhere drive system
- Dual tool ports on 32 & 44mm (1.25 & 1.75”) bars (enables use of optional ID snap gage w/o tool removal)
- 10-270 RPM range allows use of optional snap-ring groove cutter and face machining head
- Smooth, simple rotation-based variable feed ensures smoothest possible finishes in your bores
- Fully reversible—use left or right grind cutter bits

Order #K09.01

<table>
<thead>
<tr>
<th>Standard equipment included:</th>
<th>Standard equipment included:</th>
<th>Standard equipment included:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyed, modular bar drive gearbox w/variable feed</td>
<td>Keyed, modular bar drive gearbox w/variable feed</td>
<td>Keyed, modular bar drive gearbox w/variable feed</td>
</tr>
<tr>
<td>Axial feed coupler with quick-engage feature</td>
<td>Axial feed coupler with quick-engage feature</td>
<td>Axial feed coupler with quick-engage feature</td>
</tr>
<tr>
<td>Morse taper star-drive motor gearbox interface</td>
<td>Morse taper star-drive motor gearbox interface</td>
<td>Morse taper star-drive motor gearbox interface</td>
</tr>
<tr>
<td>(2) universal one-arm system supports</td>
<td>(2) universal one-arm system supports</td>
<td>(2) universal one-arm system supports</td>
</tr>
<tr>
<td>(2) adjustable bar support bearing inserts</td>
<td>(2) adjustable bar support bearing inserts</td>
<td>(1) adjustable bar support bearing inserts</td>
</tr>
<tr>
<td>(1) universal compact triangle support</td>
<td>Centering cone package with compressor sleeve</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>(2) Steel universal support clamp bars</td>
<td>(2) Steel universal support clamp bars</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>Integrated control box mounted on motor</td>
<td>Integrated control box mounted on motor</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>1.8m (6”) 44mm (1.75”) dia. chrome bore bar</td>
<td>1.8m (6”) 44mm (1.75”) dia. chrome bore bar</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>1/2” pre-sharpened tool bit with facing grind</td>
<td>1/2” pre-sharpened tool bit with facing grind</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>Large-bore cutter head</td>
<td>Large-bore cutter head</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>Standard tack plates for use with universal sup</td>
<td>Standard tack plates for use with universal sup</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>Setup sleeve for universal support</td>
<td>Setup sleeve for universal support</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>Tool kit: Allen wrench set &amp; 7/16” nut driver</td>
<td>Tool kit: Allen wrench set &amp; 7/16” nut driver</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>10” feed screw</td>
<td>10” feed screw</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>Metric/Imperial stainless steel scale</td>
<td>Metric/Imperial stainless steel scale</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>BRS logo baseball cap</td>
<td>BRS logo baseball cap</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
<tr>
<td>3.3hp heavy duty 120v / 240v motor/gearbox</td>
<td>Variable-speed hydraulic power package</td>
<td>Centering cone package with compressor sleeve</td>
</tr>
</tbody>
</table>

### BOA-C45-HY Lineboring bar system

**Standard Capabilities / Features:**
- I.D. Bore machining range 24-254mm (1.8-10”)
- Hydraulic powered—your choice 120 or 240vac pump unit. (comes with 10” hose kit)
- Standard reach 1.82m (72”)
- Stroke: 280mm (10”) (infinitely re-indexable, and longer stroke options available)
- Pass-through, mount anywhere drive system
- Dual tool ports on 32 & 44mm (1.25 & 1.75”) bars (enables use of optional ID snap gage w/o tool removal)
- 5-200 RPM range allows use of optional snap-ring groove cutter and face machining head
- Smooth, simple rotation-based variable feed ensures smoothest possible finishes in your bores
- Fully reversible—use left or right grind cutter bits

Order #K09.01-HY

### BOA-C45L Lineboring bar system

**Standard Capabilities:**
- I.D. Bore machining range 24-254mm (1.8-10”)
- Electric powered—your choice 120 or 240vac
- Standard reach 1.82m (72”)
- Stroke: 280mm (10”) (infinitely re-indexable, and longer stroke options available)
- Pass-through, mount anywhere drive system
- Dual tool ports on 32 & 44mm (1.25 & 1.75”) bars (enables use of optional ID snap gage w/o tool removal)
- 10-270 RPM range allows use of optional snap-ring groove cutter and face machining head
- Smooth, simple rotation-based variable feed ensures smoothest possible finishes in your bores
- Fully reversible—use left or right grind cutter bits

Order #K09.10L

### Optional Accessories:

- Universal compact triangle support
- Extra large boring head for 10-14” diameters
- Large boring head for 6-10” diameters
- Automatic bore welder & interface kit
- Extra large boring head for 10-14” diameters
- ID thru-bar bore measure snap gage kit
- Automatic bore welder & interface kit
- Tool bit adjuster package
- ID snap gage kit
- Shorter boring bars (all diameters)
- Tool bit adjuster package
- Longer boring bars (all diameters)
- Shorter boring bars (all diameters)
- Face machining kit
- Longer boring bars (all diameters)
- Face machining kit
- Snap-ring groove machining kit
- Face machining kit
- Bar coupling kit
- Snap-ring groove machining kit
- Small & micro bar kits for bores down to 1” dia
- Bar coupling kit
- Compact & extra long quick-change feed screws
- Perimeter-mount bearing and machine sup.
- Welding / Boring systems below share the same mount for easy one-step setup and boring to welding transitions
- Systems below all feature dual tool / accessory ports on bar. This feature, when used with snap gage and digital tool adjuster gives you the easiest and most accurate means of measuring the bore with the tool bit and bar still in place, and the most accurate way to adjust your tool bit for precise final cuts with .0001” precision.
- Systems below feature the centering cone tighten kit. This unique kit makes the job of centering your bar and keeping the cones tight by yourself a breeze. Kit includes its own spanner wrench.
- All systems below feature the unique pass-through drive design. This design, unlike the old fashioned end-mounted designs of other brands offers users far superior setup versatility. The pass-through design is excellent for bores that are spaced apart and for parts that have blind bores. These bores are commonly found on construction machinery.
- All packages below may be customized as you need. Packages below may swap the BOA-408i for the BOA-M1 for $2875. pkg. discount

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COMBINATION BORE WELDING &amp; MACHINING KIT DESCRIPTION</th>
<th>PACKAGE PRICE</th>
</tr>
</thead>
</table>
| BRS2c (Electric drive) | BORING SYSTEM MODEL: BOA-C45 Pass-Thru Drive Electric- FOR BORES 47-254mm (1.8-10") DIA  
KIT DESCRIPTION: Bar included; (1) Chromed 1 3/4” x 72” long w/ dual tool holes, 115v or 220v, Hi Torque 3.3 hp. Reversing Var. Elec. Drive (15-270 RPM) with reversing feed mechanism, centering cone set w/ lightener kit, 2 spherical bar support bearings, 3 machine supports, aluminum custom case, tool bit, BOA-408i bore welder package w/center support kit. (upgradable drive can run 7/8” and 1.25” dia bars)  
OPTIONS AVAILABLE: Thru-bar measuring tool, carbide insert tool package, small bar options (for boring down to 1” or 1 3/8” Ø (depends on kit selected), facing tool, digital tool bit adjuster kit, snap-ring groove cutter, extended diameter range cutting heads, tapered bars for blind end-drilling/milling operations. | (Comes with BOA-408i bore welder and direct mount interface) Order # K05.110901 |
| BRS3c (Electric drive) | BORING SYSTEM MODEL: BOA-C45 Pass-Thru Drive Elec.- FOR BORES 35-254mm (1.4-10") DIA  
KIT DESCRIPTION: 2 Bar set: (1ea.) 1 3/4” & 1 1/4” Ø Chrome Bars x 72” long w/ dual tool ports, 115v or 220v, Hi Torque 3.3 hp. Reversing Var. Elec. Drive (15-270 RPM) with reversing feed mechanism, centering cone set w/ lightener kit, 2 spherical bar support bearings, 3 machine supports, aluminum custom case, machine mount, 2 tool bits, BOA-408i bore welder package w/center support kit.  
OPTIONS AVAILABLE: Thru-bar measuring tool, carbide insert tool package, small bar options (for boring down to 15/16” Ø, facing tool, custom length bars & tool ports, digital tool bit adjuster, snap-ring groove cutter, extended diameter range cutting heads, tapered bars for blind end-drilling/milling operations. | (Comes with BOA-408i bore welder and direct mount interface) Order # K05.110902 |
| BRS4c (Electric drive) | BORING SYSTEM MODEL: BOA-C45H Pass-Thru Drive Elec. - FOR BORES 24-254mm (1-10") DIA  
KIT DESCRIPTION: 3 Bar set: (1ea.) 1 3/4” & 1 1/4” Ø Chrome Bars x 72” long w/ dual tool ports.  
(1) 7/8”Ø Chrome Bar x48”, 115v or 220v, Hi Torque 3.3hp. Reversing Var. Elec. Drive (15-270 RPM) with reversing feed mechanism, centering cone set w/ lightener kit, 2 spherical bar support bearings, 3 universal machine supports, tool bit, custom storage case. BOA-408i automatic bore welder package w/center support kit.  
OPTIONS AVAILABLE: Thru-bar measuring tool, carbide insert tool package, facing tool, digital tool bit adjuster kit, snap-ring groove cutter, extended diameter range cutting heads, custom length bars & tool ports, morse tapered bars for blind end-drilling/milling operations. | (Comes with BOA-408i bore welder and direct mount interface) Order # K05.110914-C45 |
| BRS5 (Hydraulic drive) | BORING SYSTEM MODEL: BOA-C45Hy Pass-Thru Drive Hydraulic- FOR BORES 36-305mm (2”-10”) DIA  
KIT DESCRIPTION: Bar included: 1 3/8”Ø x72” long, 115v or 220v, 2.5hp vari-speed hydraulic drive, centering cones w/lightener kit, 2 spherical bar support bearings, 3 universal machine supports, tool bit, custom storage case. BOA-408i automatic bore welder package w/center support kit.  
OPTIONS AVAILABLE: Electric drive, small and or micro bar kits for small boring applications, facing head, ID bore measuring tools, snap-ring groove cutter, custom length bars, digital tool adjustment kit, morse tapered bars for blind end-drilling/milling operations. | (Comes with BOA-408i bore welder and direct mount interface) Order # K05.110915 |
| BRS6 (Electric drive) | BORING SYSTEM MODEL: BB 6 Pass-Thru Drive Electric FOR BORES 36-610mm (1.4-24”) DIAM.  
(expandable to over 610mm (24”) Diameter capability)  
KIT DESCRIPTION: 2 ¾”Ø Bar x 72” long, 1.25”Ø Bar x 72” long w/dual tool ports, 3.3 hp electric drive option, alignment cones, tooling, tool extensions, 3 adjustable bar/machine supports, tool kit & custom storage case, BOA-408i bore welder package w/bore welder adapter kit.  
OPTIONS AVAILABLE: Lg. bore kit (up to 24”Ø), facing head, carbide tooling kit, pneumatic drive, 10 hp hydraulic drive, custom length bars, digital tool adjustment gage, ID bore measuring gage kit, snap ring groove cutting kit. (also available without 1.25” dia bar package—call for price) | (Comes with BOA-408i bore welder and direct mount interface) Order # K05.110916 |
| BRS7 (Hydraulic drive) | BORING SYSTEM MODEL: AM 7 Pass-Thru Drive Hydraulic FOR BORES 36-610mm (1.4-24”) DIAM.  
(expandable to 782mm (30”) Diameter capability)  
KIT DESCRIPTION: 6 bar package: 2” & 1.25”Ø Bars x 96”, 72” & 48” long, 1.5 hp hydraulic drive,  
(110v/220v pump) alignment cones w/lightener, tooling, 2 spherical bearings & 2 machine supports, cases, BOA-408i bore welder package w/center support kit.  
OPTIONS AVAILABLE: Lg. bore kit (up to 30”Ø), facing head, carbide tooling kit, custom length bars, digital tool adjustment kit, thru-bar ID measure kit, snap ring cutting tool, 5hp hydraulic drive upgrade | (Comes with BOA-408i bore welder and direct mount interface) Order # K05.110916 |
## Consumable parts (welding)

### Equipment list 8/2017

### Welding Tips

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stub tip, .8mm (.030&quot;)</td>
<td>#1058</td>
</tr>
<tr>
<td>Stub tip, .9mm (.035&quot;)</td>
<td>#1059</td>
</tr>
<tr>
<td>Stub tip, 1.2mm (.045&quot;)</td>
<td>#1060</td>
</tr>
<tr>
<td>Standard tip, .8mm (.030&quot;)</td>
<td>#1061</td>
</tr>
<tr>
<td>Standard tip, .9mm (.035&quot;)</td>
<td>#1062</td>
</tr>
<tr>
<td>Standard tip, 1.2mm (.045&quot;)</td>
<td>#1063</td>
</tr>
<tr>
<td>Hi-amp tip, .9mm (.035&quot;)</td>
<td>#2040</td>
</tr>
<tr>
<td>Hi-amp tip, 1.2mm (.045&quot;)</td>
<td>#2041</td>
</tr>
<tr>
<td>Hi-amp tip, 1.3mm (.052&quot;)</td>
<td>#2042</td>
</tr>
<tr>
<td>Micro-gun tip, .8mm (.030&quot;)</td>
<td>#1255</td>
</tr>
</tbody>
</table>

### Welding Nozzles

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini nozzle, insul. ceramic 32-50mm (1.25-2.00&quot;)</td>
<td>#1092C</td>
</tr>
<tr>
<td>Mini nozzle, brass 32-50mm (1.25-2.00&quot;)</td>
<td>#1092B</td>
</tr>
<tr>
<td>Stub nozzle (use for dia. to 50mm (2.00&quot;))</td>
<td>#1066</td>
</tr>
<tr>
<td>Standard nozzle (use for dia. Over 127mm (5.0&quot;))</td>
<td>#1067</td>
</tr>
<tr>
<td>Hi-amp nozzle (for use on beam &amp; hi-amp gun)</td>
<td>#2067</td>
</tr>
<tr>
<td>Hi-amp stub nozzle (use on beam &amp; hi-amp gun)</td>
<td>#2074</td>
</tr>
<tr>
<td>Micro-gun nozzle body</td>
<td>#1258</td>
</tr>
<tr>
<td>Hand-held gun nozzle</td>
<td>#1308</td>
</tr>
</tbody>
</table>

### Welding Diffusers

<table>
<thead>
<tr>
<th>Diffuser Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini diffuser</td>
<td>#1093</td>
</tr>
<tr>
<td>Standard diffuser</td>
<td>#1057</td>
</tr>
<tr>
<td>Hi-amp diffuser</td>
<td>#2068</td>
</tr>
<tr>
<td>Hi-amp stub diffuser</td>
<td>#2075</td>
</tr>
<tr>
<td>Hi-amp diffuser to gun adapter, 9-12mm</td>
<td>#1251</td>
</tr>
<tr>
<td>Hi-amp diffuser to gun adapter</td>
<td>#2080</td>
</tr>
</tbody>
</table>

### Liner & Conduits

<table>
<thead>
<tr>
<th>Conduit Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liner, conduit replacement</td>
<td>#1038</td>
</tr>
<tr>
<td>Liner (1.5m (5') section, trim to fit)</td>
<td>#1039</td>
</tr>
<tr>
<td>Conduit assembly, standard duty QC</td>
<td>#A315</td>
</tr>
<tr>
<td>Conduit assembly, heavy duty QC</td>
<td>#A337</td>
</tr>
<tr>
<td>Conduit assembly, extra heavy duty QC</td>
<td>#A338</td>
</tr>
</tbody>
</table>

### Welding wire

<table>
<thead>
<tr>
<th>Wire Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large cast bore welder wire, .8mm (.030&quot;)</td>
<td>#1103</td>
</tr>
<tr>
<td>Large cast bore welder wire, .9mm (.035&quot;)</td>
<td>#1202</td>
</tr>
</tbody>
</table>

(superior weld bead tracking with this wire)
# Borewelder parts & acc.

## Welding Guns
- Gun, short QC #A328
- Gun, standard QC #A313
- Gun, micro QC for ID’s 20-50mm (.8”-2.0”) #A336
- Gun, large dia. for ID’s 200-380mm (8”-15”) QC #A310
- Gun, outside dia. for 25mm-305mm (1”-12”) QC #A317
- Hi-amp gun #A209

## Specialty Guns
- Extra heavy duty gun, ultra hi-amp #A404
- Heavy duty gun extender #K23.10
- Face welding gun kit #K13.10
- Beam gun kit (adjustable ID and OD welding) #K13.11
- Hand held gun assembly QC #A333

## Gun Extenders
- Gun extension assembly 150mm (6”) #A309
- Gun extension assembly 250mm (10”) #A335
- Gun diameter extension kit (125mm (5”) x2 #K13.12

## Welder Supports
- “T” Base with tack plate #K11.11
- “A” Base with tack plate and tool (compact) #K31.21
- Universal Hex mount (use with BOA-M1 only) #A329
- Radial support, BOA-M1 #A308
- Support tube (BOA-M1) #3099
- Center support kit (BOA-M1) #K31.11
- Center support kit (BOA-408i) #K11.21
- Radial support extension 102mm (4”) #A118
- Radial support extension 204mm (8”) #A119
- Centering tube & cone kit (45-160mm(1.8-6.4”)) #K11.12

## Drive Spindles
- Spindle assembly, 250mm (10”) (BOA-M1 only) #A320
- Spindle assembly, 356mm (14”) #A325
- Spindle assembly, 457mm (18”) #A319
- Spindle assembly, 610mm (24”) #A326

## Telescoping weld gun Extension Assemblies
- Telescoping tube assembly, 305mm (12”) #A339
- Telescoping tube assembly, 483mm (19”) #A316
- Telescoping tube assembly, 610mm (24”) #A340
- Telescoping tube assembly, 915mm (36”) #A341

Bore Repair Systems, Inc.
97 Lower Cemetery Road
Langdon, NH 03602 USA
Borerepair.com - 603-835-2409
Fax: 603-835-2609
## Misc. bore repair parts

### BOA 408i upgrades
- Low-speed gearset kit  
  - #K12.14
- Standard-speed gearset kit  
  - #K12.13
- Std/Low-speed gearset kit  
  - #K12.12
- Auto-skip upgrade  
  - #A129

### Boring bar supports, centering, etc.
- Boring bar base-plate support kit, adjustable  
  - #K94.21
- Bearing spherical bearing insert assembly, 1.75"  
  - #A922
- Support, universal adjustable one-arm boring bar  
  - #K94.30
- Support kit, 2x one-arm w/bearing & joiner bolts  
  - #K94.32
- Support, universal compact triangle kit  
  - #K94.51
- Boring bar align kit (low-profile) for 1.25" dia bars  
  - #K94.10
- Boring bar align kit (low profile) for 1.75" dia bars  
  - #K94.11
- Boring bar align kit (low profile) for 1.25 & 1.75"  
  - #K94.12
- Boring bar align kit (low profile) for 2.0" dia bars  
  - #K94.13
- Boring bar align kit (low profile) for 2.25" dia bars  
  - #K94.14
- Alignment spider kit, 6"-10" diameter bores  
  - #K94.15
- Alignment spider kit, 10"-14" diameter bores  
  - #K94.16
- Tool extender arm, 3" - for 6"-10" dia. boring  
  - #K91.20
- Tool extender arm, 5" - for 10" - 14" dia boring  
  - #K91.21

### Boring bar related accessories
- ID bore measure gage, standard model  
  - #K92.10
- ID bore measure gage, tight bore model  
  - #K92.20
- Multi-function tool bit adjuster kit for 1/2" sq.  
  - #K93.12
- Multi-function tool bit adj. kit for 1/2 & 3/8" sq.  
  - #K93.16
- Multi-function tool adj. kit for 1/2, 3/8 and 1/4" sq.  
  - #K93.17
- Tool adjuster body, for 1/4" sq. bits  
  - #A903
- Tool adjuster body, for 3/8" sq. bits  
  - #A904
- Multi-function tool bit adjuster kit for 10mm sq. bit  
  - #K93.13
- Multi-function tool bit adjuster kit for 12mm sq. bit  
  - #K93.14
- Multi-function tool bit adj. kit for 1/2 & 3/8" sq. digital  
  - #K93.26
- Cutting bit, HSS w/5% cobalt, pre-sharp 1/4" sq.  
  - #9085
- Cutting bit, HSS w/5% cobalt, pre-sharp 3/8" sq.  
  - #9088
- Cutting bit, HSS w/5% cobalt, pre-sharp 1/2" sq.  
  - #9087
- Cutting bit kit, carbide 3/8" square low-profile  
  - #K91.10
- Cutting bit kit, carbide 1/2" square low-profile  
  - #K91.11
- Bit, repl’l. carbide insert  
  - #9130
- Groove cutting kit for 1.75" dia bars, ex model  
  - #K96.16
- Groove cutting kit for 2.0" dia bars, ex model  
  - #K96.17
- Groove cutting kit for 2.25" dia bars, ex model  
  - #K96.18

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Note: Also available for your boring bar system are various length bars, face machining kits, two-arm mounting kits, morse-tapered bars (allowing end-of-bar drilling operations) and more. Call us for any of your special applications.

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Covered under Pat. Nss 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438

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Bore Repair Systems, Inc.  
97 Lower Cemetery Road  
Langdon, NH 03602 USA  
Borerepair.com - 603-835-2409
# Equipment list 8/2017

<table>
<thead>
<tr>
<th>Specialty equipment</th>
<th>Specifications:</th>
<th>Specifications:</th>
<th>Specifications:</th>
</tr>
</thead>
</table>
| BOA-550HD borewelder | - Stroke: 410mm (16")  
- Reach: 1780mm (70")  
- Min. diameter HD Std.: 89mm (3.5")  
- Min. diameter HD Opt.: 63mm (2.5")  
- Max. diameter Std.: 762mm (30")  
- Max. diameter Opt.: 1830mm (72")  
- AutoSkip: Standard  
- Weld Modes: ID, OD and Faces  
- Max. Step: 6.4mm (.25")  
- Max. Amperage Std.: 225  
- Max. Amperage Opt.: 300  
- QC Conduit System  
- QC Gun System  
- Variable Mechanical Feed  
- BOA-408i Compatible  
- Input Volts: 115/240v AC | - Max Extension: 250cm (100")  
- Stroke: 860mm (34")  
- Min. Step: 2.5mm (.1")  
- Max. Step: 6.4mm (.25")  
- Feed: Mechanical  
- Min. Diameter: 25mm (1")  
- Max. Diameter: No Limit  
- Max. Amperage: 300  
- QC Conduit System  
- QC Gun System  
- BOA-408i Compatible  
- Input Volts: 115/240v AC | - Min. Diameter: 44mm (1.75")  
- Max Diameter: 260mm (10.25")  
- Stroke Stops: Quick Set  
- Attaches to: Boring Bar or Stand Alone base  
- Stones: Roughing and Finishing  
- Driveshafts: 4 lengths  
- Removal Rate: .025 (.01")/minute  
- Vertical Operation Weight Assist |

- Order #K02.10  
- Order #K04.10  
- Order #K07.10

## Standard equipment includes:

<table>
<thead>
<tr>
<th>BOA-550HD borewelder</th>
<th>BOA-L34 linear welder</th>
<th>BOA-SIZER bore finisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustable Base</td>
<td>Leveling Base</td>
<td>HD Drive Motor</td>
</tr>
<tr>
<td>SS Support Rod</td>
<td>Activation Switch</td>
<td>#6 and #7 Sizer Head</td>
</tr>
<tr>
<td>Radial Extension Arms</td>
<td>Heavy Duty Gun</td>
<td>Driveshafts (5)</td>
</tr>
<tr>
<td>Conduit Support Tube</td>
<td>Heavy Duty Consumables Kit</td>
<td>Universal Joint Assembly</td>
</tr>
<tr>
<td>Heavy Duty Gun</td>
<td>Drive System</td>
<td>Anti-Torque Backbone Assembly</td>
</tr>
<tr>
<td>Gun Extenders (2)</td>
<td>Conduit Assembly</td>
<td>In/Out Stop Rod Kit</td>
</tr>
<tr>
<td>Tool kit</td>
<td>Aluminum Diamond Plate Case</td>
<td>Carrying Case</td>
</tr>
<tr>
<td>Heavy Duty Consumables Kit</td>
<td>User’s Manual</td>
<td>Sizing Oil</td>
</tr>
<tr>
<td>Aluminum Diamond Plate Case</td>
<td>1 year warranty</td>
<td>User’s Manual</td>
</tr>
<tr>
<td>User’s Manual</td>
<td>1 year warranty</td>
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<tr>
<td>Drive System</td>
<td></td>
<td></td>
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<tr>
<td>Conduit Assembly</td>
<td></td>
<td></td>
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<tr>
<td>1 year warranty</td>
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</tr>
</tbody>
</table>

## OPTIONAL ACCESSORIES:

- Boring bar system
- Face welding system
- Small diameter HD gun
- Extended range / reach components
- MIG wirefeeder adapter
- Beam Gun Kit (for larger ID and OD work)

- Part rotation turntable
- MIG wirefeeder adapter
- Custom welding gun

- Automatic boring bar kit
- Automatic bore welder kit

## Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438
L-34 Linear Welder

Specifications
Max. Extension - 100" (250cm)
Stroke - 34" (860mm)
Min. Step - .1" (2.5mm)
Max. Step - .25" (6.4mm)
Feed - Mechanical
Max. Dia. - No Limit
Min. Dia. - 1" (25mm)
Max. Amperage - 300
Welding Process - MIG (GMAW)
Suggested Transfer - Spray
QC Conduit System
QC Welding Gun System
BOA-408i/550HD Compatible
Input Volts - 115/240

Typical Repair Applications
Hydraulic Cylinders
Rock Crushers
Steel Mill Bearing Housings
Chemical Tanks
also for cladding or buildup of new
Chemical Tanks, Pipes or Nozzles
Valve Bodies or Seats

Copyright © 2023 Steelman, Inc.
The BOA-550HD automatic bore welding system is designed for users who demand durability, ease of setup and precision without unnecessary complication.

The patented BOA-550HD bore welder features a unique variable feed mechanical drive system that gives users the option of varying the distance between weld beads. Due to the design features of the feed system, and the fact that it does not require a second motor for axial feed, the machine is very simple to operate and does not require feed recalibrations. This also means that you do not have to worry about bead to bead spacing and possible lack of weld bead fusion to the base metal.

The BOA-550HD is designed to weld at amperages as high as 300, and a feed rate of up to 6.4mm (.25”). This allows vary high weld deposition rates and minimal cycle time. Also, the 410mm (16”) stroke allows long duration welds without stopping.

The BOA-550HD is user friendly, simple to operate, extremely durable and is designed to be easily setup and operated.

Weighing just 14Kgs (30 Lbs) the BOA-550HD drive is easily and safely setup and handled by one person. Bores, faces and outside diameters up to 1.8m (72”) can be welded with the BOA-550HD.

Bore Repair Systems, Inc. offers many convenient purchase plans including rent-to-own and lease finance options. Contact us today at 603-835-2409 or visit our website at www.borerepair.com.
BOA-SIZER
PORTABLE BORE FINISHER

THE SOLUTION
FOR STRESS-FREE PRECISION BORE FINISHING

Use the BOA-SIZER after align boring to reliably achieve a perfect bore diameter and finish...every time.

Innovation • Value • Experience • Support
WHY THE BOA-SIZER WAS DEVELOPED

The BOA-SIZER portable bore sizing machine, developed by Bore Repair Systems, Inc., solves the age-old problem that anyone involved in equipment bore repairs can relate to....how to reliably machine the bore to the desired precise size, finish and consistency, every time using only a traditional single-point cutting tool and boring bar. Factors such as boring bar deflection, bar support play, and tool decay make it very difficult to achieve perfect bores on a regular basis using only traditional means. A mistake such as an over-cut often requires starting over, and several additional unplanned hours on the job—not something to look forward to. The solution to the problem is the BOA-SIZER. The BOA-SIZER finishing machine is the best way to achieve perfect bores every time. Bore re-work and the stress of trying to set your single-point boring bar tool accurately for that final cut is history. The BOA-SIZER, with its consistent grinding action means the bore will be finished with accuracy from start to finish. There will be no diameter fluctuations throughout the bore, and the finish will be smooth and free of typical single-point cutter grooves which can impair bushing press fits and proper pin fits.

SYSTEM FEATURES

#7 Sizing head with large racks installed for finishing of bores up to 260mm (10.25") in diameter.

BOA-SIZER stop rod with fully adjustable stops ensure safe operation by eliminating dangerous over-travel of sizing head. The stop system may be installed on either side of the BOA-SIZER for easy left or right handed operation.
Portable Bore Finisher

The final step in the bore repair triangle

We've listened to what you want and our innovative, reliable and easy to use BOA line of portable bore repair equipment is the answer.

STEP 1
BORE WELDING

STEP 2
BORE REPAIR Systems, Inc.

STEP 3
BORE SIZING

The BOA-SIZER completes the bore repair triangle. It is the stress-free way to achieve perfect bores on all your bore repair jobs...every time.

Bore Repair Systems, Inc.—Langdon, NH U.S.A.
#7 Sizing head with standard rack set installed for finishing of bores from 70mm (2.75") to 95mm (3.75")

Knurled coarse and fine stone pressure adjusters are located at end of sizing head. Universal joint offers easy, self-correcting alignment.

A wide variety of mounting adapters are available. Hook up your BOA-SIZER directly to your boring bar support or use the universal mount anywhere.

**BOA-SIZER STANDARD SYSTEM—**
**BORE DIAMETER RANGE: 46-260mm (1.75-10.25")**

**SYSTEM COMPONENTS**

- Traveling assembly
- 110V drive motor
- Quick-lock power cord
- #6 sizer head kit
- #7 sizer head kit
- (1) 76 mm (3") drive shaft
- (1) 152 mm (6") drive shaft
- (1) 305 mm (12") drive shaft
- (2) 610 mm (24") drive shaft
- Large diameter stone extenders
- Universal joint assembly
- Hitch pin
- Boring bar interface bracket
- (2) 1/2" wrenches
- (1) 3/4" wrench
- 8 oz sizing oil
- Carrying case
- User’s manual / setup guide

The BOA-SIZER features a unique "weight compensation" feature for easy vertical under or over-head use.