

ROUTING

Buyer	_____
Mfg Engr	_____
Engr Mgr	_____
Mat Mgr	_____
Production	_____
Marketing	_____
Other	_____
Return to	_____

The Gateway

Keeping New England Purchasing Decision Makers Informed.

Published Monthly
New England Edition

Issue No. 47
May, 2003

FREE SUBSCRIPTIONS

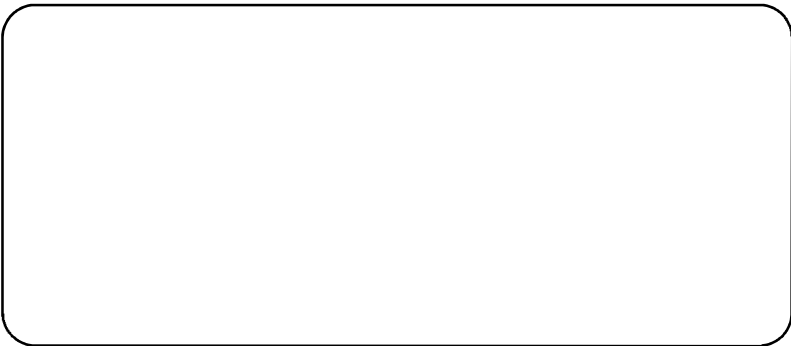


BORTECH CORPORATION Keene, NH

**Reprinted Feature Story from The Gateway Magazine
May 2003 Issue.**

REQUESTED
SERVICE
CHANGE

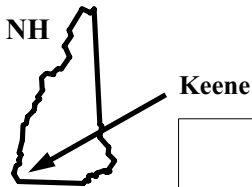
PRSRT STD
U.S. POSTAGE
PAID
FARMINGTON, N.H.
PERMIT No. 5



**Want to introduce yourself to
New England buyers?
We can feature your company.
It is FREE and it is easy!**

Call us at 603-755-9232

The Gateway
336 Governors Road
Milton, NH 03851



BOORTECH CORP.

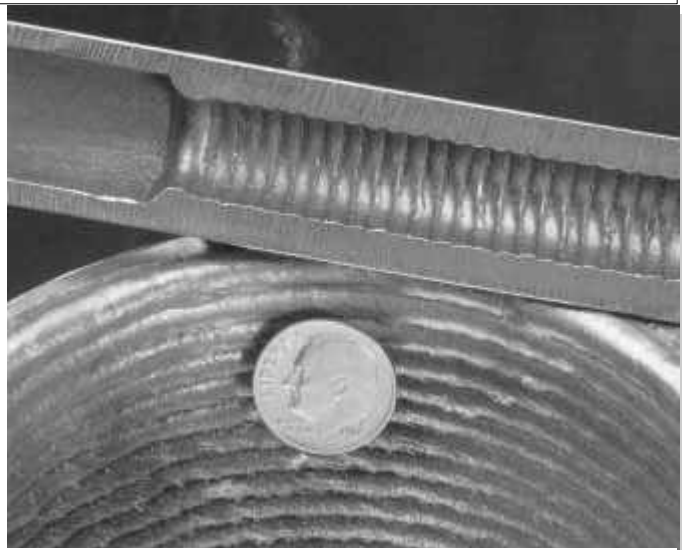
The Bortech BoreWelder was invented, designed and built by Rees Acheson out of a need to repair worn holes in large pieces of equipment. Rees owned and operated a machine shop that served several heavy equipment companies in and around Keene. He was often faced with a problem of worn, over enlarged holes that were not easy to repair and too costly to replace. So, Rees needed a better solution and the first Bortech BoreWelder was developed.



The Bortech BoreWelder in operation is ideal for repairing worn diameters without bushings.

Before this revolutionary piece of equipment existed, one of the common repair methods was to bore out the hole to a larger diameter and press a bushing into the hole to restore its original ID. The drawback to this method was that the original base material was often compromised and weakened in the boring process. Each time this happened, the hole would be made larger and more material removed, causing more weakening in the original material. It was a time consuming, tedious and expensive process for Rees and the customer.

Another 'fix method' was to manually build up weld in the hole's ID to close up the opening, then bore out or machine the excess weld. That works if you have excellent access to the damaged hole, and if the hole is



A close up view of the built up repair that a Bortech unit can repair. Notice the non-porous build up that can be machined and return the worn part to like new condition.

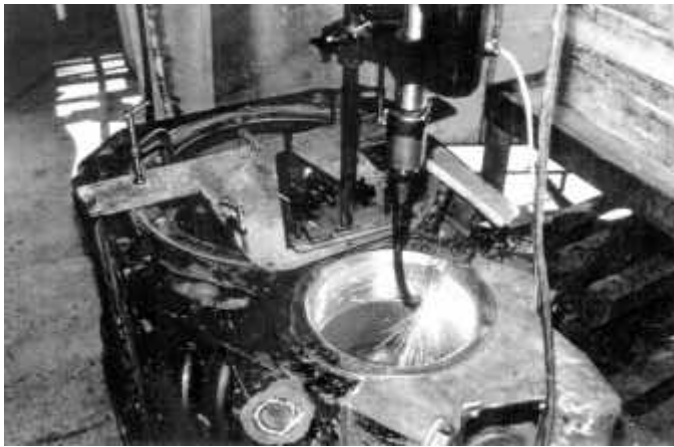
physically big enough to weld in. But once the weld was applied manually, it would not be uniform. Machining was difficult because of the irregular weld buildup.

Rees realized there had to be a better way and experimented with many ideas to perfect his design which is now known as the Model 306-P. He said, "Continual refinements in design have resulted in the Model 306-P, which combines optimum features for both ease of use and simplicity in manufacture. Patents have been granted." The product has now been expanded to weld both IDs, ODs, faces and conical seats. In fact, any circumferential surface can be handled with the Bortech BoreWelder.

There are many other uses for this machine which primarily repairs bores, pins, valves or faces; and any



Here a large flywheel is repaired with a Bortech unit. Not only saving money but actually improving versus using a bushing type repair.



Another example of a Bortech save.

machine shop that works on heavy equipment could benefit from the machine. In fact, any manufacturer that repairs their own equipment, or products, requiring circumferential welding, needs to take a look at this machine. The BoreWelder can also clad a component with an Inconel or Stellite overlay.

Bortech is unique in another way as well. They are the only company in the US that can use 'stepping' technology which provides unequalled, exceptional control of the welding process. With the stepping process the machine welds a complete 360o rotation, then 'steps up' a fraction of an inch before welding the next 360o rotation. By allowing independent adjustments of the wire speed, step size, and rotation speed, exceptional control of the welding deposit and placement can be achieved. Machines that use a 'spiral' method versus Bortech's stepping operation, provide much less flexibility.

The company is solidly built around servicing customers and offering total support from the first telephone contact to in the field use. And for them, it really does start at the first contact. They want to make sure each customer is getting the right machine for the cus-



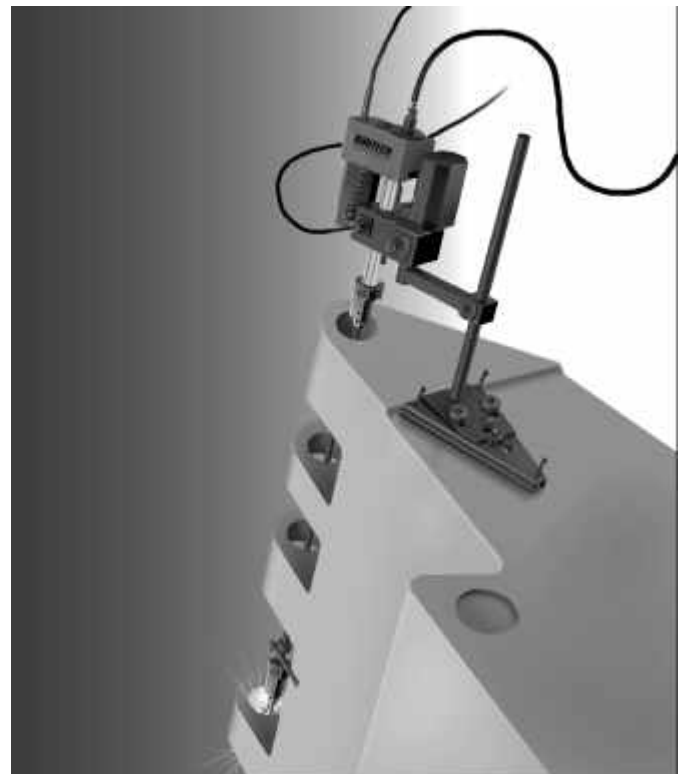
Another Bortech repair.



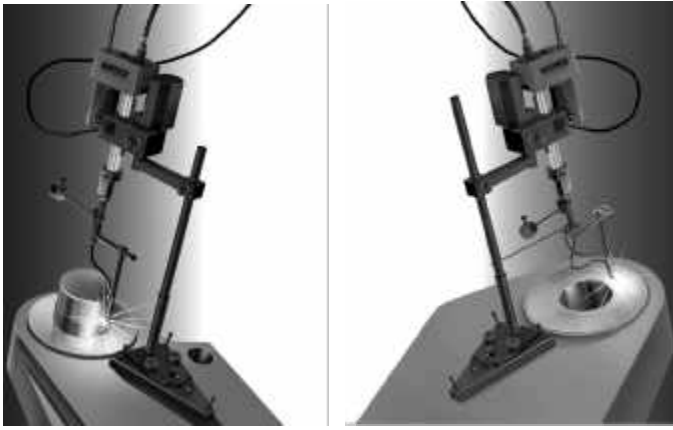
Portable units take the repair to the problem and solve it on large or even often minute size parts.

tomers' application and not just another sale. Once the customer decides on purchasing the machine, Bortech will most often ship product the same day. Bortech always ships each machine with a sample of that machine's welded bore, which demonstrates the machine is in working order and meets all product parameters prior to shipping. Then, Bortech offers and provides free factory training for every user.

Quality is very important to Bortech, since usually when a customer needs to use their BoreWelder it's be-



Flexibility to reach hard-to-reach areas is possible.



*Inside a hole, outside a part, or flat surface buildup.
Bortech can offer solutions for all types of needs.
Even partial build up as seen below*



cause their expensive equipment needs repair and the BoreWelder will keep them from experiencing expensive downtime. For that reason, Bortech

has a thorough quality control program to make sure each machine is going to be ready to work at a moment's notice.

That's what Bortech offers - - - more profitable method of fast repairs, consistent welds for consistent machining, which produces consistent great results and saves the customer time and money. When an expensive piece of machinery breaks down, the cost of the machinery is usually insignificant to the loss of productivity and labor. Bortech gets the machinery working again to minimize those losses.

In addition to the standard machine line of BoreWelders, Bortech also can manufacture specialty welding lathes and complete torch indexing heads for rotating positioners. In fact, there are many types of unique applications that Bortech may be able to answer for your company.

Nineteen years ago Bortech was incorporated and is today owned and operated by Leo White. Michael Wright is the Sales Manager. If you have questions or help, there are several technicians available to assist you.

BORTECH CORPORATION

66 Victoria Street
Keene, NH 03431

Tel: 603-358-4030 Fax: 603-358-4007
www.bortech.com

Do You Weld Any Circumferential Surfaces? Do You Repair Bores? Pins? Valves? Cylinder Eyes?

Then You Need BoreWelders from Bortech For Automated MIG Welding

Portable, automated BoreWelders provide precision welding on circumferential surfaces. Bores, pins, conical seats all can be welded and repaired, in the field. Features include:

- ? ?MIG pulse and short arc process capabilities
- ? ?Auto-Skip feature fills worn sections or skips keyways
- ? ?Quick disconnect components speed up set-up and replacement of consumables
- ? ?Diameter ranges from .5" to 12", with deposition radii from .040" to .375"

Borewelding systems are easily installed on all major models are available to ship within 24 hours. Welding torch indexing heads for rotating positioners can be manufactured.



Bortech Corporation
6 Victoria Street Keene, NH 03431
603-358-4030

www.bortech.com

**Ask about our
New Inconel
package!**