

## FASTER, BETTER, SAFER, Introducing the New RBL-G2 Clamshell Lathe

Our new RBL-G2 represents the next generation in clamshell lathes designed with safety as the top priority. Get faster, better performance with the durability customers have come to expect from Tri Tool.

- *Pinch points minimized for improved safety*
- *Patent-pending tool module ensures a smoother, cleaner cut*
- *Corrosion-resistant coatings increase tool durability for long lasting protection in the roughest environments*
- *Economical high speed carbide sever kit allows for sequential sever and bevel operations with minimal setup time*

Tri Tool examined every aspect of the RBL clamshell lathe design and improved performance, speed and ease of use while maintaining the power and durability our customers have come to expect. The newly redesigned RBL-G2 will now sever and bevel up to three times faster with a new high speed, in-line and right angle motor options in a single drive housing adding flexibility and reducing machining time without compromising power.

*"We've also simplified the tool bit setup which should save the operator time and reduce the amount of training needed to operate the machine"*

Ash Ferozepurwalla, P.E., Engineer

The new, economical high speed carbide sever kit allows for sequential sever and bevel operations with minimal set-up and without having to reposition the clamshell lathe.



Tri Tool's new RBL-G2 600 Series Clamshell delivers significant improvements on an already successful product, increasing operator safety, performance, durability and versatility.

Safety is a core value at Tri Tool and a primary goal of our engineers when doing both design and redesign projects.

*"We wanted to eliminate as many pinch points on the new RBL-G2 as possible. Our engineering team developed an innovative and patent-pending tool block design that allows for the tripper mechanism to remain in a fixed and low-profile location adjacent to the tapered drive housings. The result is significantly fewer pinch points throughout the entire usable range of the machine"*

Justin Tripp, P.E., Manager of Engineering

Our patent-pending tool module design along with the integration of the new fixed-position tripper mechanism minimizes pinch points for superior operator safety.

## Upcoming Shows & Events

Dec. 2 - 5, **OSEA 2014**

Marina Bay Sands, Singapore, [www.osea-asia.com](http://www.osea-asia.com)

Dec. 9-11, **Power-Gen International 2014**

Booth #1401 • Orlando, FL, [www.power-gen.com](http://www.power-gen.com)

## The Inside Story



### An ADA Compliance Project Benefits Eagle Scouts, Welding Training, the Disabled, and the Community

A major public sports complex located in Folsom CA needed to improve access for the elderly and disabled. The sports complex boasts an indoor soccer field, two basketball courts, three indoor volleyball courts, four indoor batting cages, and a pitching/hitting cage.

Community Eagle Scouts volunteered to take on this project that involved digging foundations, building forms, and pouring large concrete ramps. Metal handrails would also need to be designed, welded and installed. Finally, all of this would have to meet construction codes for public and ADA compliance in a community building.

The Scout Leader personally attempted to reach out to the community, asking for help for nearly 18 months, finally approaching the AWS - Sacramento Valley Section. The AWS contacted the Ironworkers Apprenticeship Coordinator for Local Union 118 who was very familiar with this type of work.

Along with AWS and union support, two local businesses agreed to support the project. GNB, an advanced vacuum chamber and valve manufacturer, and Tri Tool were eager to assist in any way, including material fabrication and welding.

The Eagle Scout idea was snowballing into reality. Union members began to organize the concrete work, and students and faculty from Yuba and Sierra community colleges and Sacramento's American River College were recruited to study the local construction codes for compliance and coordinate inspections and Building Department approval of the plans.

The valuable materials and steel were donated by GNB and Yuba College loaned a pipe bender for handrail forming. Cutting, fabrication and welding on the guard and handrails began during the evenings and weekends at GNB with welding professionals working alongside the Eagle Scout members who viewed this as a great learning experience (and a sure fire way to a Welding Merit Badge).

Finally, while construction was in progress inside, Sacramento Valley AWS representatives and others conducted hands-on, live welding demos and training sessions designed to foster welding education and inspire occupational consideration.

This noble project spanned over 4 weeks with on-site construction being completed to the satisfaction of the Folsom Parks and Recreation Department.

Most importantly, it benefited the appreciative elderly and disabled members of the community.

### Tri Tool's PFM 4876 PIPEMASTER®

The PFM 4876 PIPEMASTER has proven to deliver both high performance and versatility, with incredible precision on 48" to 76" facing for high-volume pipeline production.



*A PFM 4876 being setup and factory calibrated prior to shipment.*

### Dale Flood, Tri Tool Welding Program Mgr. Named as AWS Vice President Elect

In recognition of his life-long commitment to the development of new welding technologies, his tireless efforts in assisting individual welders through personal training, and the advancement of the welding profession through promoting the AWS mission on a local and national level, Dale Flood has been selected as the incoming Vice President Elect for the AWS.

Congratulations Dale!





# Safety Focus: Safety Considerations When Renting Portable Machinery

Tri Tool’s cost-effective equipment rental is an effective alternative for construction, maintenance, emergency outages, and non-typical machining applications.

When renting equipment, the operator is often required to use a type of machinery they have either never used, or have limited experience with.

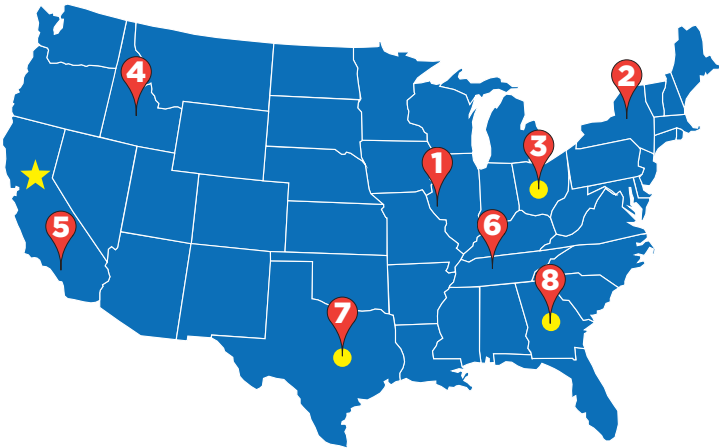
Portable machine tools have unique safety concerns in both how they mount and while operating. Wear safety glasses. The closing gap between moving and stationary parts can grab, pinch or cause serious injury. Machinery, the pipe, or cutoffs can slip, separate, lurch, or fall before, during, or after equipment use. Cutting debris is sharp and can be very hot so use extreme care clearing debris from machine or tooling path. Equipment and all required attachments must be fully operational, properly maintained with sharp bits and with all safety features intact. Do not deliberately over-ride safety triggers or machine controls. Organize and prepare your complete work area to be “safe and secure.”

To ensure safety the operator must read and fully comprehend the equipment’s Operation Manual before using any Tri Tool machinery.

Please call with any questions regarding safe machine operation, and available safety training, before you cut!

## Regional Customer Support

Contact your regional representative for more assistance:



**1 - IN: Don Pangburn - 916-288-6100**

**2 - NY: Bob Davies - 315-343-0192  
Mobile 201-665-6316**

**3 - OH: Tom Emmerling - 440-914-0033  
Mobile 412-897-5136**

**4 - ID: Brian Evans - 208-542-5142  
Mobile 916-712-8506**

**5 - CA: Greg Fontes - 714-964-3564  
Mobile 916-761-0342**

**6 - TN: Aaron Hutson - Mobile 731-924-8735**

**7 - TX: Robert Korey - Mobile 817-368-9309**

**8 - GA: Gary Watson - Mobile 404-915-3375**

**★ Corporate HQ    ● Regional Facility**

## TECH TIP: Get Maximum Life and Performance With Your Premium Tri Tool Bits

Your purchase of high quality Tri Tool bits is the first step to ensuring that you produce excellent machining results each and every time. In addition to well-crafted bits, the manner and techniques of the use of the bits can make a significant difference. Factors such as surface cutting speed and feed pressure can greatly affect cutting results.

Developing experienced tactile feed pressure awareness is something that assists all machine operators in “feeling the cut” intuitively. The feel, appearance and sounds that occur during cutting are all good indicators to help in determining an optimal feed rate.

You should have a full clear bit path before starting the cut, without contact with the work. Start with a light pressure until a continuous cut is established. This is very important for long bit life when machining an interrupted end as an irregular flame-cut, or out-of-square tube or pipe end.

Typically, a depth of cut of .003” to .006” (.08 mm to .15 mm) per revolution is ideal to establish a continuous cutting chip. It is best to remember: If the feed is too LIGHT, only light stringer chips will be removed.

If the feed is too HEAVY, the drive will start to overload (the chip will have a rough or torn look). Metals including Stainless can “work harden” from the heat and friction of cutting. It is important to use enough feed pressure to stay under the work-hardened surface where the metal is softer.

Also, never allow the bit to burnish the surface, which adds to the difficulty of the cut.

If you notice a chatter sound, reducing the feed travel speed will usually correct this problem.

A good rule of thumb is to try and generate chips that are .0025” (.064 mm) thick per revolution. Actual measurements will indicate a pseudo thickness of .006” (.15 mm) unless a pin micrometer is used for measuring. Also, be aware of the distance that the feed handle or feed mechanism advances the bit per revolution.

Primary Criteria	For Stainless steels in general when no coolant is allowed.  For all heavy-wall tube and some chrome/molybdenum steels.	Mild steels and some thin-wall stainless steels when coolants are permitted and applied.	Thin-wall mild steel and tube with coolants.  Aluminum.
Surface travel per minute	200 In.	250 In.	300 In.
Surface travel per minute (Metric)	508 cm	635 cm	762 cm



Joe Wernette accepts the 2014 IOW award from Mr. Jim Horvath of Victor Technologies, Chair of the Image of Welding Committee.

## Tri Tool is Recognized by the AWS with the 2014 "Image of Welding" Award

Tri Tool has been recognized as a leading designer and manufacturer of quality portable machining products that prep the tube or pipe for welding for over 40 years.

*"For a company to design products around prepping the pipe for welding, it was imperative that we have an intimate knowledge of the process of welding as well,"*

Dr. George J. Wernette, President of Tri Tool and AWS Member since 1980.

To this end, Tri Tool took a progressive role in welding research, and as early as 1991 became active corporate proponents of welding and welding technology. This research culminated in the development and launch of the patented AdaptARC® orbital multi-process mechanized welding system after years of intense R&D.

As the company became more active in national welding organizations and hired more seasoned welders, senior management within Tri Tool sponsored and supported employees taking leadership roles within their

local sections. Local commitment continued to grow as employees presented white papers, joined welding competitions, and supported local organizations with their community projects. In 2008, in conjunction with the AWS Foundation, they started the Tri Tool Inc. – Sacramento Section Named Scholarship that continues to provide student scholarships each year.

Tri Tool is proud to be honored with the prestigious Image of Welding award in the small business category by both The American Welding Society (AWS) and The Welding Equipment Manufacturers Committee (WEMCO) and will continue to support and promote that image in the future.

*"They are involved with community development in education, training and humanitarian efforts. Their philanthropic efforts have provided many students in this area the ability to accomplish goals that would otherwise be unattainable. There are few individuals and companies in this industry that have not been touched in some way by their work, effort and passion to excel."*

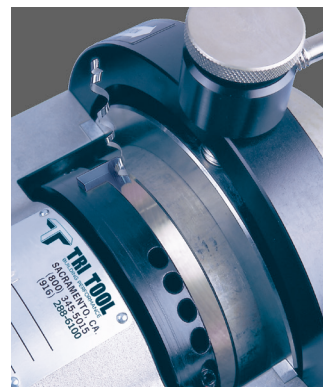
Ken Morris, Former AWS Sacramento Valley Section 174 Chairman

## End of Year Special: FREE HIGH PERFORMANCE DURABITS!

Tri Tool customers that purchase Models 301E, 301SP, 302, and 304 tube squaring machines between now and Dec 31, 2014 will receive Free DURABIT tool bits.

Call for more information on this limited time offer.

Get a great deal on our best squaring solutions!



- PORTABLE PRECISION MACHINE TOOLS
- MECHANIZED WELDING SYSTEMS
- ON-SITE CONSTRUCTION SERVICES
- CODE WELDING
- PIPELINE EQUIPMENT
- RENTAL EQUIPMENT
- CUSTOM EQUIPMENT DESIGN & MFG

3041 Sunrise Blvd.  
Rancho Cordova, CA 95742  
916-288-6100 • 800-345-5015  
www.tritool.com