



BRUNSON INSTRUMENT COMPANY

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CLIMAX
Portable Machining & Welding Systems

Big Parts, Big Headaches?

One of the most common yet challenging set-ups in field machining is to bore straight holes over the long lengths associated with today's large equipment. Traditional set-ups require guesswork to remove sag from a long, heavy boring bar or some exotic fabrication to stage an optical device for aligning the boring bar bearings. Neither method is timely, convenient, or effective, resulting in higher maintenance costs and shorter uptime cycles.

Climax Portable Machine Tool engineers and Brunson engineers worked together to develop a simple system that produces precision results. Now the Climax 2.25" spherical bearings can be aligned precisely over distances up to 50 feet with an easy-to-use system that fits in a small carrying case. No more long, heavy bars; no more instrument staging logistics.

The precision Brunson alignment telescope slides into to an adjustable fixture that clamps to Climax 2.25" spherical bearings on one side of the equipment to be bored. Specially designed open-wire targets mount in bearings on both sides, and the telescope is used to establish a perfect line-of-sight axis that the bearings can be adjusted to. Within minutes the bearings can be accurately aligned and boring can get underway.

Avoid Equipment Damage and Production Delays

The Brunson boring alignment system provides accuracy required to prevent accelerated wear and related equipment failure and downtime.

- Designed by experts to overcome common field boring problems.
- No long boring bars are required.
- The Brunson system is highly portable, and can be used by single worker.
- Provides easy and accurate set-up, even in rough field conditions.
- Best system for wide span boring.



Brunson Alignment System for Climax Portable Boring Bars

The Brunson Alignment System for the Portable Boring Bar is a compact, highly portable precision measurement tool kit developed to assist in bearing alignment prior to boring operations. The alignment telescope is used to establish an optical reference line through the center of two Climax 2.25" spherical bearings, below.



When viewing through the Brunson alignment telescope, the far side target will be distinguished from the near side with the use of a custom designed open wire target. The unique 45° "clocking wire" is easily visible up to distances of 50 feet.



Alignment System Components

The following components make up the Portable Boring Bar Alignment System:

- 1 – Brunson Model 2062 Alignment Scope
- 1 – Scope Adjusting Fixture with focus knob guide, 2 adjustable handles (for securing the ring to the bearing flange), and 4 adjustment screws (for making scope position adjustments)
- 2 – #795-SS 2.25-in. Open Wire target with a stepped reticle pattern
- 1 – #509 DC (battery-powered) LED Light source
- 1 – #509-B Backlight for 2.25-in. Open Wire targets
- 1 – Custom-fitted weatherproof protective case
- 1 – Alignment System User Guide

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