



SAWMILL ALIGNMENT

Improve recovery, quality, saw and machine center performance

Sawmills everywhere are faced with demands for tighter tolerances and increased production, while using aging machinery. But one common problem is often overlooked in this quest for higher performance: machine alignment. Poorly aligned equipment is a hidden drain on time and money. It is a major contributor to breakdowns, lost production and waste. Now, an affordable in-house solution is available.

OPTICAL ALIGNMENT

Innovators in the lumber industry are adopting the tools and techniques used by the paper, steel and power generation industries for precision alignment of their equipment. It's called Optical Alignment and is favored among professionals who need precise, verifiable alignment of large machine centers. You'll appreciate the easy set-up, simple operation and consistent performance of the Optical Alignment process. The work moves quickly and the highly precise results bring a long list of advantages and benefits.

THE BASICS

A precision optical instrument called a jig transit is mounted on a stable platform. The jig transit is aligned with reference targets to produce an accurate and repeatable optical plane for the alignment of all machine components. All measurements are made using tried-and-true visual optical techniques that you can see, understand and verify. It's simple and very accurate.

IT PAYS FOR ITSELF

Customers tell us our systems pay for themselves within months, with cost benefits continuing to grow month after month, year after year. The system is simple and the results are precise. Alignments are easily managed by your own people on your schedule.

A CLOSER LOOK

The Brunson jig transit is accurate to within .002" at distances up to 34' in horizontal and vertical planes...no wires, no plumb bobs or levels, nothing to plug in. Real people view and verify the results, not computers. Plus it quickly generates repeatable data, which is critical to ensure your machine adjustments are correct.

On vertical quad primary breakdown lines (see diagram on back), the machine centerline is defined by the sharp chain that delivers logs and cants to the cutting section. A jig transit is aligned to the centerline and sweeps an extremely precise vertical

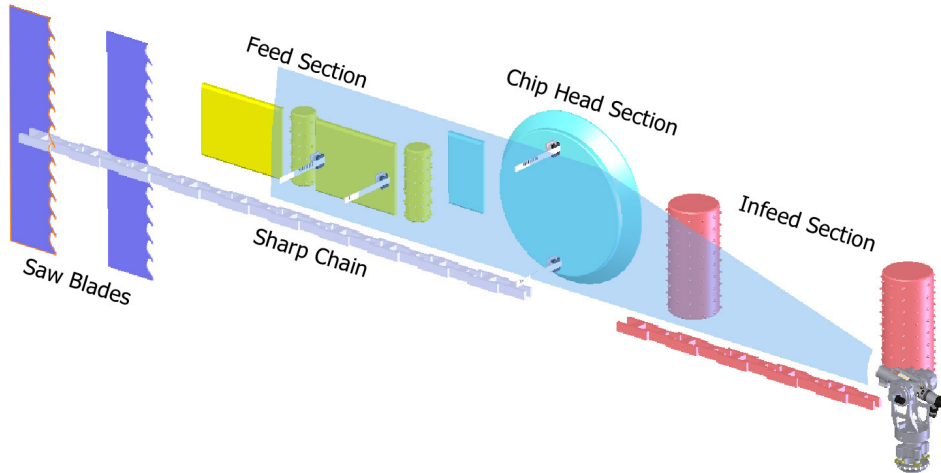
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- » Improve recovery
- » Saws cut straighter and last longer
- » Eliminate wedge
- » Reduced deviation improves output quality, adding value to every board foot
- » Thin kerf saws increase output volume without increasing wood costs
- » Less vibration causes less wear and tear on machinery

plane throughout the machine center. Key components like the chip heads, feed module anvils, spike rolls and band saws are precisely aligned for plumb, straightness and centerline using the jig transit. Real-time measurements and adjustments with our precision scale that mounts to each machine component. For components like rollers and machine ways, the jig transit also sweeps precise horizontal planes.

Jig transits and their related accessories are a natural fit in a sawmill environment. There are no wires to break or trip over, no worries about wind, light, temperature or humidity affecting results. The optical alignment technique described here provides all required measurements quickly and accurately in one set-up.



The Brunson alignment service group will help align mills and train employees to perform alignments



COMPREHENSIVE TRAINING

Never worked with optical instruments? We want you to confidently and successfully use your Brunson Optical Alignment solution. That's why training and ongoing support is available for every saw mill alignment kit. And, if you'd like to study Optical Alignment theory in more depth, we offer week-long courses that can take place at our facility in Kansas City, MO or at your place of business.

SAWMILL ALIGNMENT KIT (9105)



Brunson offers a complete kit to align your entire mill. The kit includes:

- Jig Transit
- 5" (127 mm) Scale
- 10" (250 mm) Scale
- 20" (500 mm) Scale
- V-block/scale holder
- Additional magnetic scale holder
- Cross slide
- Shaft Squareness Target
- Rugged, rolling case

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