

Pinpoint

Laser Systems

Straight to the Point!

Why Laser Alignment?



Special points of interest:

- Measuring—old and new
- Good for profits and the environment.

For years, engineers, maintenance teams, and production people have wrestled with fishing cord and piano wire drawn between machines for checking straightness and other alignments. PI tapes, tram bars, and other mechanical

devices help some, but they tend to sag and twist. Optical scopes have improved accuracies over long machinery runs, but are heavy, bulky, and cumbersome to use. Three operators may give you three different results when using an optical scope. For decades, industry has muddled by with these traditional and limited methods.

Introduced in the late 1960s, the laser has been an amazing innovation for industrial alignment bringing accuracy, range, and ease of use directly to industry. Initial systems came out of laboratories and in addition to being expensive, they were poorly packaged and experienced frequent breakdowns in the field. With the development of laser diodes and microprocessor based electronics, laser alignment systems have become a great source for industrial alignment.

Since the early 1990s, Pinpoint has carried this evolution one step further by packaging its state of the art laser alignment technology in a durable, easy-to-use form that fits right onto machinery and can be used by anyone right on the factory floor. Robust aluminum housings, precision glass optics, compact portable design all at an affordable price makes Pinpoint's Microgage line a valuable tool for any company. An assortment of attachments and add-ons allow engineers, maintenance, and production personnel to adapt this laser alignment capability to almost any industrial application. You will find the Pinpoint Microgage at work on long paper machines and aircraft wings, down inside mines, in hospitals, and semiconductor plants fine tuning precision equipment.

With laser alignment, you can measure and align machinery over great distances and resolve very small motions and alignment errors. Readings are shown in simple numbers taking the guesswork out of the process and leading to better machinery alignment, less downtime, and

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Industry Aligned

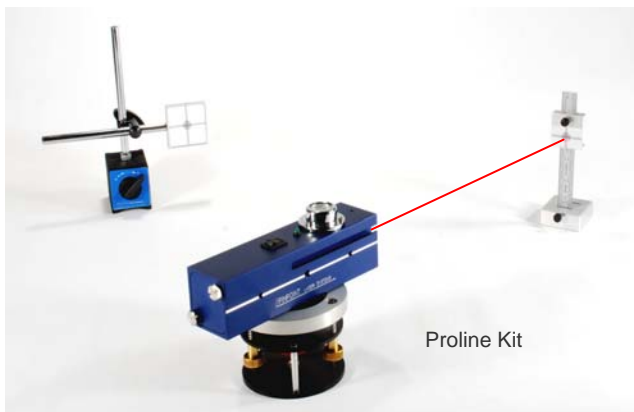


Pinpoint Introduces the Proline Alignment Kit

Pinpoint Laser Systems® now offers the new Proline Alignment Kit for those customers that may not need the precision and accuracy of the Microgage line. The Proline Kit allows you to check and measure; straightness, flatness, squareness, parallelism, leveling, and many other tasks. This kit combines the features of a transit, an infinitely long straight edge, and laser alignment all in one compact, portable, versatile product. Precision laser alignment for production, maintenance, and plant engineering projects, both large and small, has never been so easy.

The Proline Laser produces a crisp, collimated laser reference beam that forms a bulls-eye pattern for easy visual alignment and precise measuring. This innovative laser is enclosed within a precision machined housing, ensuring that the laser reference beam is parallel to the side and base surfaces within 0.003 degree, or <math><0.030</math> inch at 50 feet.

This level of accuracy is ideally suited for setting straight machinery runs, aligning production equipment, transferring mechanical points, locating shafts and bearing mounts, aligning belts and pulleys, and countless other industrial tasks.



Proline Kit

A finely ruled target and magnetic base are easily positioned for checking alignments, allowing one person to perform the work of several. The kit includes a leveling base for measuring flat planes and machined surfaces. A 90-degree laser prism is useful for squaring machinery and checking the parallelism of rails, tracks, and guides. A growing line of versatile targets, mounts, and attachments expands the versatility of the Proline Laser. The Proline Laser and all of its attachments are stored in a durable carrying case for convenience and easy transport.

The Proline Laser and all its accessories are machined from solid aluminum with stainless steel parts and protected by a hard anodized coating for years of dependable use on the factory floor.

Like all Pinpoint products, the Proline is manufactured in the United States of a well-built quality that is unsurpassed.

- ⇒ **Visual laser delivers precision, range, & versatility**
- ⇒ **Easy to use, learn, & affordable**
- ⇒ **Durable aluminum housing, stainless hardware, quality for years of use**
- ⇒ **Add-ons let you expand capabilities**



Featured Industry: The Rubber & Plastics Industry

For more than 12 years Pinpoint has been providing measurement and alignment solutions to companies in the Rubber & Plastics Industry. These have included our standard Laser Microgage products, but often customized systems to address unique projects. Pinpoint understands the many challenges faced by the Rubber and Plastics industry. Our easy-to-use, precision laser alignment products allow you to monitor and align equipment without relying on expensive outside vendors. A few of these many applications include:

- Extruder bore alignment
- Roll & web alignment
- Checking platen parallelism
- Align coating & treatment heads
- Align feed & take-up reels
- Checking tie-bar straightness
- Adjust slitters & converters
- Roll profiling

Our dedicated staff can assist you in providing product specifically designed to help solve production problems and optimize your workflow.

We hope that you will contact our engineering team to discuss your next alignment project.

A	U	T	O	M	O	B	I	L	E	A	P	B	J	P	D
C	H	I	C	A	G	O	C	X	V	B	R	K	E	E	A
O	O	G	L	R	G	S	K	A	P	R	I	L	F	A	R
R	C	E	I	C	H	T	W	H	H	K	C	J	F	R	T
N	T	R	N	H	L	O	S	A	N	G	E	L	E	S	M
E	O	K	C	T	I	N	I	R	K	C	T	B	R	A	O
L	B	R	O	W	N	I	E	V	D	N	O	E	S	U	U
L	E	O	L	V	M	A	J	A	F	A	N	N	O	G	T
I	R	Y	N	Y	T	R	U	R	C	M	G	A	N	U	H
O	A	W	D	D	F	T	L	D	M	A	Y	L	N	S	M
N	K	E	N	N	E	D	Y	S	Y	B	U	P	A	T	L
S	A	N	F	R	A	N	S	I	C	O	P	A	L	S	G

Can you find the hidden words?

THEY ARE:

- (7) Months
- (6) Major U.S. Cities
- (5) Ivy League Colleges
- (4) U.S. Presidents
- (3) Transportation
- (2) Animals in a Zoo
- (1) Fruit

You can find the answers to these puzzles on our website at www.pinlaser.com

I hope you enjoyed *Straight to the Point!* We would love to hear your ideas and suggestions for future issues. Also, if you have a puzzle you would like published, send an email to our editor, Cindy Lord, cjlord@pinlaser.com.

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improving profits. With lasers contributing to more efficient manufacturing and industrial processes, lost time, wasted materials, and manufacturing inefficiencies are reduced. This all contributes to healthier profits and fewer environmental impacts as U.S. industries thrive.

On the Road With Pinpoint's Engineers

Years ago one of our engineers, Mory Creighton, visited the Hoover Dam to advise on the use of the Laser Microgage for resetting the position and alignment of long turbine shafts running from the generator bay down into the bowls of the dam where the turbines are housed. This required a descent of about 450 feet down into the cement catacombs at the base of the dam where the sound of swirling water and the large 20 foot turbine blades whirled, just feet away, to create electric power. Water is always dripping through the dam's massive concrete structure and creating small icicles and columns of lime and furrows in the floor channel the water away. Low tunnels and dim lights complete the extensive network that runs throughout the base of the dam forming the perfect setting for a great horror movie.

While reviewing the access to one of the drained turbine pits where a laser measurement would be made, the escorting engineer was called away for an unforeseen emergency. Mory continued his work and after some time

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noticed that the engineer had not yet returned. He decided to take a short walk and see if he could find some help and after 6 passageways, 3 left turns, and 2 rights finding his way out of this sub-terrain maze was proving difficult and he was lost! The air was getting colder and his feet were now even wetter, he was convinced that Hannibal Lector might be lurking around the next bend. When you are 400 feet below the earth's surface, and surrounded by cement a cell phone signal is hard to come by. So Mory, retraced his steps, and was fortunate to find the open turbine bay where he waited for a while until voices came along above and he called out for directions. All ended well and to this day he still jokes about being lost in the base of the world's largest hydro-electric dam.

**Contact us for a Web-Ex
Conference to discuss your
Application!**

1-800-757-5383

**You have received a complimentary copy of our
technical newsletter. Please look inside for valuable insights on
factory alignment and improving efficiency!**

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www.pinlaser.com**

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