

AGL

SLB110

Tunnel Control Lasers



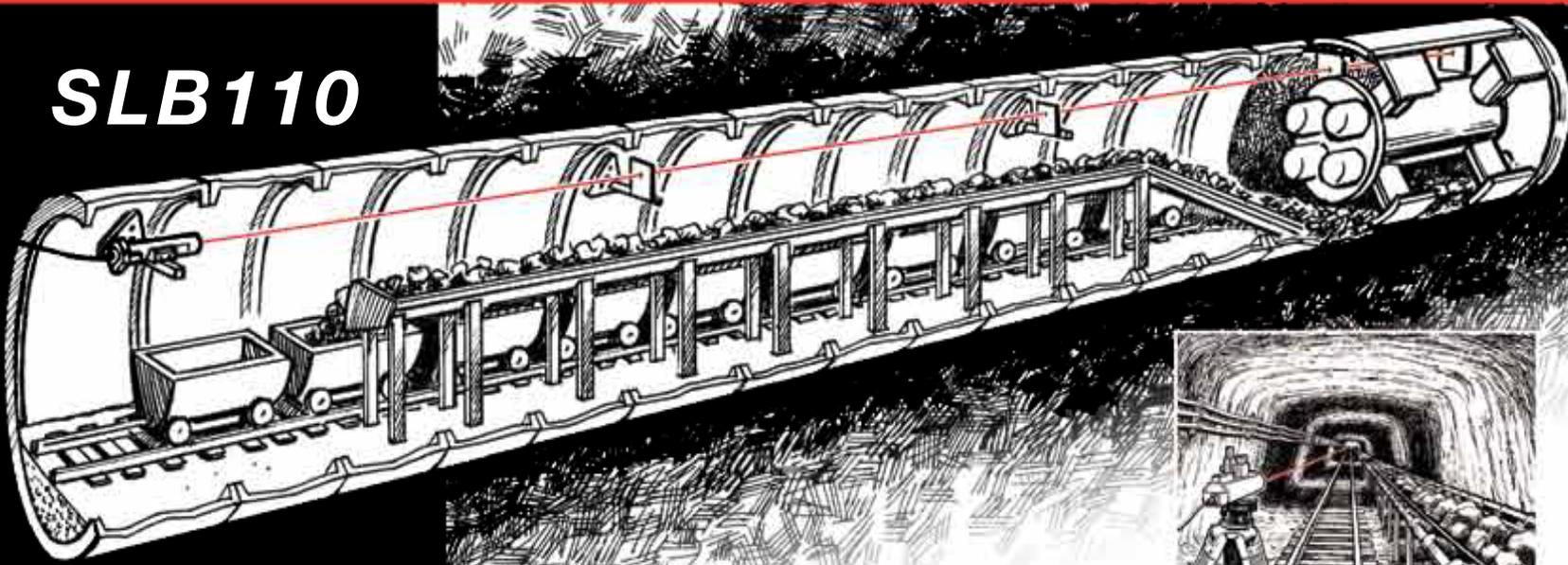
*Setup using the
AGL mounting plate*

***Ideal for
Tunneling, Mining,
or anywhere you
need accurate,
economical
alignment
control***



*Tripod Setup Using
Alignment Scope for
Critical Alignments*

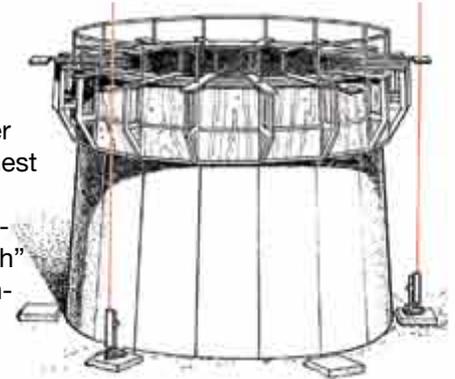
SLB110



FEATURES

- Compact Size
- Rugged and Reliable
- Wide Variety of Mounting Options
- Accurate Control for All Mining Applications
- Aligns Cables, Conveyors and Rails
- Perfect for Tunnel Boring Machines (TBM)
- Attachment Lens for Specialized Fan Lens
- Simple to Use
- Very Versatile
- Low Cost

The SLB110 is a compact, reliable, rugged, uniquely designed alignment control system that utilizes a laser diode. The SLB110 internal mechanisms use the highest quality aluminum, brass and stainless steel materials that are precisely machined. Circuit boards utilize top-of-the-line electronic components. The "Jobsite Tough" SLB110 enables accuracy and productivity in all alignment control situations.



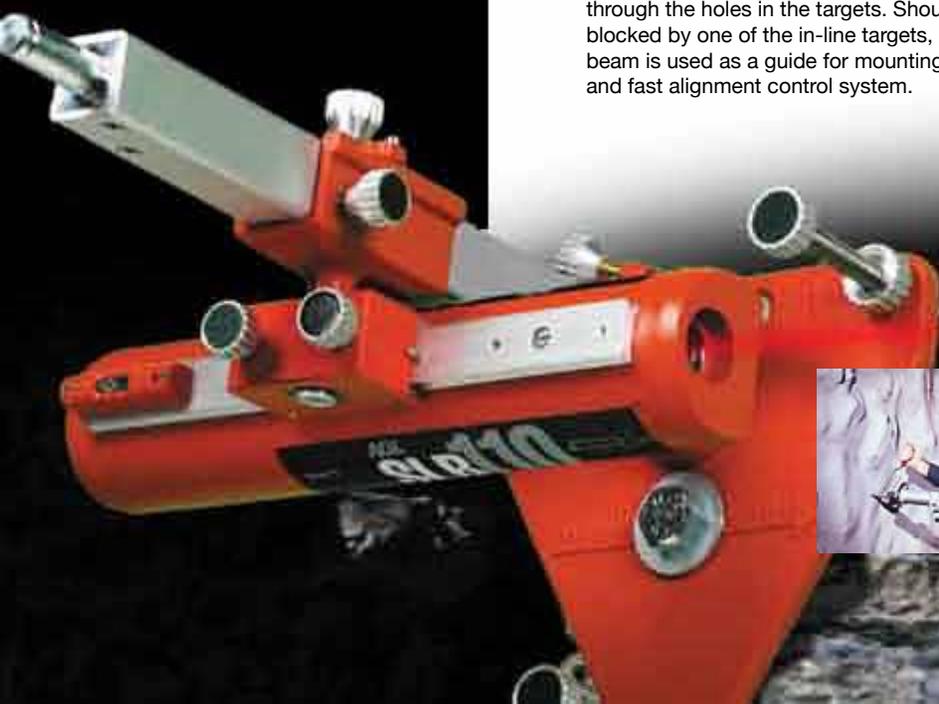
Setup & Failsafe Alignment Control

The primary mounting system for the SLB110 is the Mounting Plate (P/N 9-09030). Made of heavy aluminum castings and extrusions, it is easily secured to any surface and positioned with three leveling screws.

For applications that require frequent relocation of the laser, the SLB110 can be mounted on a tripod using one of three different mounting systems.

1. Mounting Bracket (P/N 8-07360)
2. Fixed Tripod Mounting Kit (P/N 9-09301)
3. Hanger Rail SLB110 Tripod (needed if Alignment Scope is also to be mounted) (P/N 9-09305)

A failsafe alignment control system is obtained by positioning three mounting plates (P/N 9-09030) in a row. The SLB110 is mounted on the first mounting plate and in-line targets are positioned on the other two. The in-line targets are positioned at the desired line of control and the SLB110 is adjusted so the beam passes through the holes in the targets. Should the SLB110 accidentally be moved out of alignment, the beam is blocked by one of the in-line targets, alerting the operator to check alignment setup. As the job progresses, the beam is used as a guide for mounting additional targets down range. Only the SLB110 can offer such a simple and fast alignment control system.

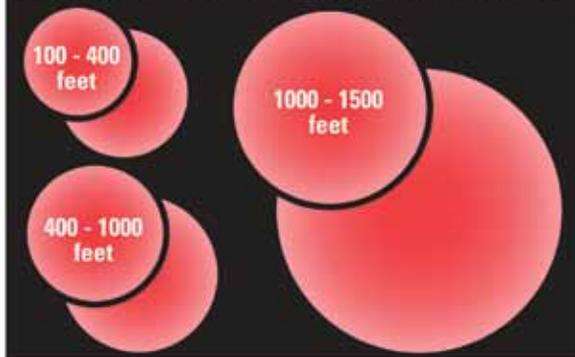


Alignment Scope

To allow you to easily spot the beam on a forward object while adjusting the SLB110. The alignment scope mounts directly to the SLB110 and provides quick one-man positioning of the beam on the target, especially when the target is far away and under conditions of poor lighting.

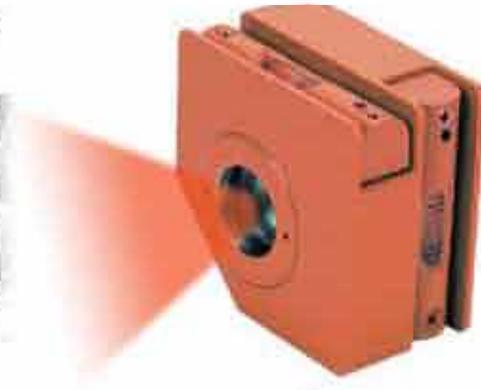
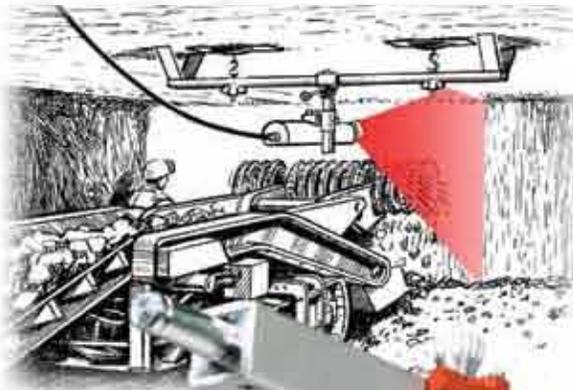


Variable Beam Sizes in Respect to Distance



Fan Lens

To spread the laser beam to form a thin plane of light that will strike a surface as a line of laser light. The fan lens attaches to the front of the SLB110 and spreads the exiting beam into a wide fan shape instead of the usual pencil thin beam. The "fan" can be rotated to provide a vertical or horizontal line.



SPECIFICATIONS

Beam Type

Visible Laser Diode / 635 Nm

Beam Output

2.2mW

Beam Size

1/2" - 9/16" @ 100'

1/2" - 9/16" @ 200'

1/2" - 9/16" @ 300'

1/2" - 9/16" @ 400'

5/8" - 11/16" @ 500'

7/8" - 15/16" @ 1000'

7/8" - 1 1/4" @ 1500'

Operating Range

1500' (feet)

Power Source

12 VDC

Level Vial

50 sec

Waterproof

Yes, purged w/ dry nitrogen

Length

15" (inches)

Weight

4.25 lbs.

Operating Temperature

0° F (-18°C) to 120° F (50°C)

ACCESSORIES

Mounting Bracket	8-07360
Fixed Tripod Mounting Kit	9-09301
Alignment Scope w/ Mounting Kit	9-09208
Mounting Plate	9-09030
w/ 6" Adjustable Legs & Fine Adjust Block	
In-Line Target w/ Mounting Bracket	9-09061
Double Male Plug	4-00313
15" Rod Section	9-09028
Height Adjustable Rod	9-09136
Hanger Rail mounting	9-09305
for tripod and scope	
5/8" x 11 Adapter w/7.5" Rod	9-09097

Alignment

Fan Lens (mounts on instrument) Special

Miscellaneous

110/220VAC to 12VDC Converter 1-08937



TWO POWER SOURCES

The SLB110 can be powered by either the 12 VDC Power converter or the 12 volt power cord.

The 12 VDC power converter connects to the AC power source and converts the AC power to a usable 12 volt DC power.

The 12 VDC power cord can be hooked to any 12 volt battery.

The converter is perfect for long term placement while the 12 VDC power cord allows easy movement of the SLB110.



Mounting & Alignment Accessories



Mounting Plate
(P/N 9-09030)
w/ optional fine adjust
block and 15" rod



In-Line Target w/Mounting
Bracket (P/N 9-09061)



Mounting Hanger Rail for
Tripod (P/N 9-09305) with
7.5" Rod (P/N 9-09097)

Mounting Bracket
(P/N 8-07360)



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Zoom 20 GeoMax Total Station

accXess™ EDM Technology

GeoMax's accXess EDM Technology delivers outstanding reliability and class leading accuracy with and without a prism in even the most difficult conditions.

Reflectorless accXess EDM Technology is available as a2 (250 m) and a4 (400m) on the GeoMax Zoom20 series.

Onboard Software

Easily control your data with the flexible and easy-to-use on-board software.

Quadruple-axis compensation

With advanced electronic compensators, GeoMax instruments are always level and collimation errors corrected.

Powerful Li-ion batteries

The GeoMax Li-Ion battery which lasts up to 36 hours is one of the standard accessories that comes with the Zoom20 series.