DIRECT READING RODS

FEATURES

Aluminum front and rear rods.
Made of high strength clear anodized aluminum for lightweight, rugged, dependable operation. They will not rust, split, splinter, swell or warp in any environment.

Tape has heavy duty matte textured face.
Easy on the eyes in bright sunlight.
Protects the tape numbers from wear and fading.

Tape lock grommets are oversized, heavy duty brass. Greatly minimizes the problem of tape tearing.

Detector rail is black, high density, U.V. stabilized for long life.
Specifically designed to not become brittle when exposed to ultraviolet rays or direct sunlight.

Solid tape lock with internal brake slide.
Stronger, trouble-free operation.

Tape lock pin cannot puncture tape.
Designed not to tear, puncture or rip tape when pushed against tape face instead of the grommet hole.

DuPont nylon parts.
Tough and rugged for long-lasting life. Same material used for ski bindings and motorcycle parts.

LASER/OPTICAL
TOUGH – LIGHTWEIGHT – VERSATILE

MADE IN REDMOND, OREGON
USA

HIGHEST QUALITY - LARGEST SELECTION
LaserLine Mfg., Inc. is the world’s largest manufacturer of direct reading (Lenker style) grade rods. We are proud to offer the highest in quality, selection and service.

HOW THEY WORK:

Direct Reading/True Elevation Grade Rod

Direct Reading, or True Elevation (also known as Lenker style) is a Grade Rod with a moveable tape face allowing you to set the actual benchmark elevation, or any elevation, above or below the bench into the rod. The actual true elevation above sea level is read on these rods, thus eliminating errors caused by adding or subtracting. Since no math is involved, grade shots are much faster than conventional style rods. On most jobsites, the bench elevation is typically established by survey, and all elevations on that project are above that or below primary bench elevation.

EXAMPLE:
In the USA, these elevations are typically represented in feet, tenths and hundredths of a foot as per the example.

<table>
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<tr>
<td>Bench Elevation</td>
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<td>Catch Basin #12</td>
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Laser Version Direct Reading/True Elevation Rods

For use with a laser detector. There is a special rail slide and Laserline detector bracket that lets the laser detector travel the full working length of the rod. This allows faster and easier readings because it takes the awkwardness out of having to loosen the detector, move the detector, then tighten the detector for each reading.

Refer to “Detector Brackets Match Guide” (last page) for your bracket selection.

Optical Version Direct Reading/True Elevation Rods

Are used with optical instruments and have no special rail for the laser detector. All tape faces have large scales and are easy to read at a distance when using an optical instrument.

Laserline offers the largest selection of direct reading (Lenker style) grade rods available.
GR 1000 SERIES  LASER VERSION

- GR 1000
  - 10’ Direct Reading
  - Feet, tenths, hundredths
  - Plus cut & fill
  5’ 10½” – 10’ 1¾”

- GR 1000T
  - 10’ Direct Reading
  - Feet, tenths, hundredths
  5’ 10½” – 10’ 1¼”

- GR 1000I
  - 10’ Direct Reading
  - Feet & inches
  5’ 10½” – 10’ 1¼”

- GR 1000ICF
  - 10’ Cut & Fill only
  - Inches
  5’ 10½” – 10’ 1¼”

- GR 1000T
  - 10’ Direct Reading
  - Tenths OR inches
  5’ 10½” – 10’ 1¼”

- GR 1000M
  - 3 Meter Direct Reading
  - Metric scale
  5’ 10½” – 10’ 1¼”

- GR 1000MCF
  - 3 Meter Direct Reading
  - Plus Metric Cut & Fill
  5’ 10½” – 10’ 1¼”

GR 1450 SERIES  LASER VERSION

- GR 1450
  - 15’ Direct Reading
  - Feet, tenths, hundredths
  - Plus cut & fill
  8’ – 14’ 8¼”

- GR 1450T
  - 15’ Direct Reading
  - Feet, tenths, hundredths
  8’ – 14’ 8¼”

- GR 1450M
  - 5 Meter Direct Reading
  - Metric scale
  8’ – 15’ 11¾”

- GR 1450MCF
  - 5 Meter Direct Reading
  - Metric scale
  - Plus cut & fill
  8’ – 15’ 11¾”

GR 10 SERIES  OPTICAL VERSION

- GR 10T
  - 10’ Direct Reading
  - Feet, tenths, hundredths
  5’ 5” – 9’ 7”

- GR 10I
  - 10’ Direct Reading
  - Feet, inches
  5’ 5” – 9’ 7”

- GR 10M
  - 3 Meter Direct Reading
  - Metric scale
  8’ – 14’ 8¼”

- GR 15T
  - 15’ Direct Reading
  - Feet, tenths, hundredths
  8’ 5” – 15’ 11¾”

NOTE: Any of the above Direct Reading Rods can be ordered with a 4 Foot Extension (EX) that slides into the rear rod section, and when deployed, adds 4 extra feet to the working range of the Grade Rod.

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### DETECTOR BRACKETS - GR 1000 & GR 1450 RODS

#### MATCH GUIDE

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<thead>
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<th>DETECTOR BRAND &amp; MODEL</th>
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<th>BI-LA</th>
<th>BI-T</th>
<th>B-550</th>
<th>BI-LS70-80</th>
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### 4-FOOT ROD EXTENSION

Works with any Laserline Direct Reading Rod! Slides conveniently inside the rear rod when not in use. Allows you to extend the rod in one-foot increments up to four additional feet! Grade rod collapses down to original size when not in use.

### CARRYING/STORAGE BAGS

Sturdy black cordova nylon with strap, velcro flap and pocket for bracket and detector.

- **1000-1301**: 10-foot • 3-meter
- **1000-1302**: 15-foot • 5-meter

### REPLACEMENT TAPES

- **1000-1023**: 10 foot • tenths plus cut/fill
- **1000-1026**: 10 foot • tenths
- **1000-1036**: 10 foot • inches • cut/fill only
- **1000-1037**: 10 foot • inches • tenths
- **1000-1038**: 10 foot • inches
- **1000-1502**: 5 meter
- **1000-1504**: 15 foot • tenths
- **1000-1035**: 3 meter plus cut/fill
- **1000-1024**: 3 meter
- **1000-1503**: 5 meter plus cut/fill

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