LASERLINE MFG., INC.

DIRECT READING RODS

HIGHEST QUALITY - LARGEST SELECTION

LASER/OPTICAL

TOUGH - LIGHTWEIGHT - VERSATILE

MADE IN REDMOND, OREGON USA

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.

LASERLINE MFG., INC.

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.

		Read on rod as
Bench Elevation	2352.50	2.50
Bldg. A Footing Elevation	2351.50	1.50
Bldg. B Finish Floor Elevation	2353.85	3.85
Catch Basin #12	2349.28	9.28



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.



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.



Refer to "Detecor Brackets Match Guide" (last page) for your bracket selection.

Laserline offers the largest selection of direct reading (Lenker style) grade rods available.



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GR 1000 SERIES LASER VERSION



- · 10' Direct Reading
- · Feet. tenths. hundredths

GR1000

· Plus cut & fill

5' 10½" – 10' 1¾"



- **GR 1000T**
- · 10' Direct Reading
- · Feet, tenths, hundredths

5' 10½" - 10' 1¾"



GR 10001 · 10' Direct Reading · Feet & inches 5' 10½" - 10' 1¾"



- **GR 1000ICF** · 10' Cut & Fill only
- · Inches
- 5' 101/2" 10' 13/4"



- **GR 1000IT** · 10' Direct Reading
- · Tenths OR inches





GR 1000M · 3 Meter Direct

- Reading · Metric scale
- 5' 10½" 10' 1¾"



GR 1000MCF

- · 3 Meter Direct Reading · Plus Metric Cut & Fill
- 5' 101/2" 10' 13/4"

GR 1450 SERIES LASER VERSION



GR 1450

- · 15' Direct Reading
- Feet, tenths,
- · Plus cut & fill

8'-14' 81/4"

GR 1450T

- · 15' Direct Reading
- Feet, tenths, hundredths.

 $8' - 14' \ 8\frac{1}{4}"$



GR 1450M

- · 5 Meter **Direct Reading**
- · Metric scale.

8' - 15' 111/4"

GR 1450MCF · 5 Meter **Direct Reading** · Metric scale · Plus cut & fill 8' - 15' 111/4"

GR 10 SERIES OPTICAL VERSION



GR10T

- · 10' Direct Reading
- Feet, tenths,

5' 5" - 9' 7"



GR 10T

hundredths.

GR 101

· 10' Direct Reading · Feet, inches

· Metric scale 5' 5" - 9' 7" 5' 5" - 9' 7"

GR 10M

· 3 Meter

Direct Reading



GR 15T

· 15' Direct Reading · Feet, tenths, hundredths.

8'-14' 81/4"



GR 15 M

- · 5 Meter **Direct Reading**
- · Metric scale

8' 5" - 15' 111/4"

GR1450

DETECTOR BRACKETS - GR 1000 & GR 1450 RODS

MATCH GUIDE

DETECTOR BRAND & MODEL	B-1	B1-LA	B1-T	B-550	B1-LS70-80	B-STORM	B-LT	B-LCA	B-LCA-C	UB-1
Agatek RCR500										•
AGL LS-4	•									•
AGL LS-100							•			•
AMA D6, D7	•									•
Apache Cyclone		•								
Apache 34, 44 Lightening	•									•
Apache Lightening 2, Twister							•			•
Apache Storm						•				
Bosch LR-1										
CST Berger LD100, 120, 200, 400	•									•
CST Berger RD-5, RD-1, LD90		•								
CST Berger LD440										•
David White LD18	•									•
Futtura CR1										•
Futtura CR2+							•			•
Futtura CR3					•					•
Futtura CR4						•				
Geomax ZRP105								•		
Geomax ZRB35										•
HILTI PRA 31, 35										•
Laser Alignment 4, 5, 6, 7, 8	•									•
Laser Reference R4, R5, R7										
(R8 Old Style, threaded hole)	•									•
Laser Reference R8 newer, slide back							•			•
Laser Reference R9	•									
Leica Rod Eye Basic										•
Leica LPD 15, 30	•									•
Leica Rod Eye Digital						•				
Leica Rod Eye Pro/Classic		•								•
Leica Rod Eye Plus							•			•
Leica Rod Eye Digital 140, 160, 180								•		
Leica Combo									•	
Nikon 3, DS-30, LS-6	•									•
PLS HVD 505R, HLD 1000										•
Sokkia LR100	•									•
Sokkia MLR							•			•
Spectra Precision 1077, 1274, 1275	•									•
Spectra Precision 1175, 1177, 3075										•
Topcon LS30, LS50, LS70, LS80, LS1					•					•
Topcon LS100D		•								
Trimble HR200	•									•
Trimble HR150 (U), HR220, HR300										•
Trimble HR250, 320, 350							•			
Trimble HR400, 500, CR600			•							
Trimble HR550				•						•
Trimble HL450/700/750/760						•				
All other detectors (Most Brands)										•

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	1000-1504: 15 foot • tenths		
	1000-1026: 10 foot • tenths	1000-1035: 3 meter plus cut/fill		
	1000-1036: 10 foot • inches • cut/fill only	1000-1024: 3 meter		
	1000-1037: 10 foot • inches • tenths	1000-1503: 5 meter plus cut/fill		
	1000-1038: 10 foot • inches	1000-1502: 5 meter		
	1000-1501 : 15 foot • tenths plus cut/fill			