

# UNILINE DL SERIES LASERS



## ***Control of Tunnel and Mine Alignment***

- *Small, portable and rugged*
- *Stainless Steel construction*
- *Long battery life, low power consumption*
- *Choice of easy-to-use mounting systems*
- *SABS Intrinsic Safe Approval*

### ***A continuous visible straight line reference for:***

***Bord and Pillar, Flat and Inclined Development Ends, Drifts, Longwalls and Tunnels***  
- Controlled accuracy, no off-line/off-grade development, smaller volumes of material to move

***Continuous Miners*** - Constant reference keeps machine on line

***Conveyors, Lifts and Track*** - Accurate installation and maintenance control, saves costs through less wear and tear

***Extending line pegs*** - Unskilled labour easily trained to extend lines, cutting time and costs

# UNILINE DL SERIES LASERS

The Uniline DL Series of alignment lasers are the culmination of more than 25 years of experience in manufacturing lasers for the demanding conditions usually experienced in tunnel and mine development.

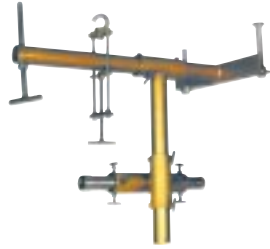
These units utilise the most advanced laser diode technology combined with a superb lens system. The result is an exceptionally well collimated beam of red laser light, producing a well defined 'spot', which can be used 24 hours a day at distances of up to 1000 metres as an accurate reference for tunnel and mine development.

Three models are available depending on the distance required and prevailing conditions in the working environment.

## MOUNTING SYSTEMS

### 716 Universal Roof/Wall Mount

Designed for easy set-up for permanent and semi-permanent installations. It has a wide range of coarse and fine adjustment and is built to continuously withstand the severe conditions found underground. This mount is usually selected for Development Ends, Drifts and Tunnels, where line and/or grade are required.



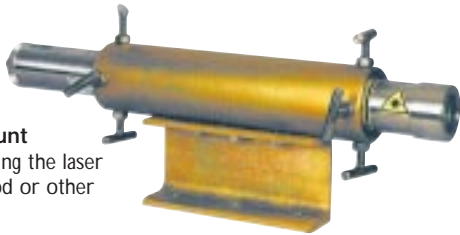
### 1617 Suspended Hooks

An Afgen invention, the hooks are used for quick and accurate suspension of the laser between survey spads or other points on the roof. The system is used for fast extension of line or the installation of line pegs and can be used by unskilled personnel with very little training. The patented design of the hooks prevents the cord from slipping out, even if the laser is knocked or slewed through a very substantial range.



### 1395 Tube Mount

Used for mounting the laser on a plinth, tripod or other suitable base.



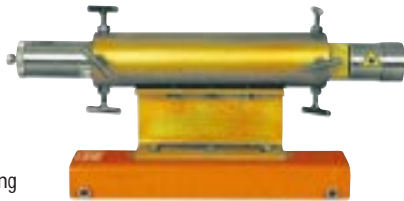
### 1083 Laser Transit

Used when horizontal and vertical angles are required. Like the Transit Base, shown below, it fits into a conventional survey tribrach.



### 718 Rail Alignment Mount.

This mount fits onto the 1395 Tube Mount for aligning track and rail.



### 998 Transit Base

Used for turning off horizontal angles.



## SPECIFICATIONS

Casing Diameter 41.5mm  
Length 406mm  
Material Stainless Steel

Mass 1.75kg  
Mass with battery 2.25kg

Power Sources: Choice of either Battery (DC) or Mains (AC)  
Battery power Rechargeable On-board NiCad Battery (Up to 60 hours continuous use per charge cycle)  
Mains power 220/240VAC/5VDC Converter (Fresh air only)

Output Power  
Uniline DL 1550 <1mW (635nm)  
Uniline DL 1510 <3mW (635nm)  
Uniline DL 1557 <5mW (635nm)

Range (good conditions)  
Uniline DL 1550 250m  
Uniline DL 1510 600m  
Uniline DL 1557 1000m

Spot size  
+- 15mm at 250m  
+- 25mm at 400m  
+- 85mm at 1000m

The Uniline laser, with the on-board battery, has South African Bureau of Standards intrinsic safe approval for use in hazardous areas. Approval number M787/J605

*AFGEN has designed, manufactured and marketed laser systems for mining, tunnelling and industrial uses for more than 25 years. We have won several Design awards for our products and were first selected as one of South Africa's Top 100 Technology companies in 1992. Our mission is to continue to create innovative, quality designed and manufactured products that enhance the working environment.*

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