

**THE T8 IS DELIVERED WITH**

Robust carrying case.

**TECHNICAL SPECIFICATION**

Laser source .....	Visible diode, 635nm, class 3R
Laser output power .....	3,5mW
Optional high power .....	5mW (max 7mW)
Focus distance .....	600m
Beam diameter at 600m .....	35mm
Beam diameter at 100m .....	20mm
Power .....	12-30VDC
	110-240VAC, 50-60Hz
Dimensions with bracket .....	
Height .....	240mm
Length (beam direction) .....	270mm
Depth .....	240mm
Weight .....	6,9kg

# T8

Tunnel Laser



**THE T8 TUNNEL LASER, A NEW  
INDUSTRY BENCHMARK.  
-LONG RANGE, RELIABLE AND  
ROBUST**

# T8 Tunnel Laser from AMA Laser Systems

**BUILDING ON THE** concept of previous AMA Tunnel Lasers, but with significant improvements to make tunnelling easier. The T8 design has been perfected during more than 20 years of service. It is extremely robust, built to cope with the harsh tunnelling environment.



## ALIGNMENT

The alignment mechanism in each axis consists of two counter-working precision thread alignment screws, that lock the laser position in place for maximum stability of the alignment. The 5/8" thread in the bottom allows for use of replaceable, precision instrument positioners. This gives the possibility of dismantling the instrument during blasts when working close to the work face.



## VISIBILITY

The visibility of the T8 laser spot is excellent, making the T8 good for ranges up to 800m. The laser power output is 3,5mW (5mW as option).

The laser beam is focused at 600m, which ensures that the laser spot diameter at 600m is typically 35mm. The T8 is powered by a laser diode. The durability is superior to previous HeNe technology, and the cost of replacing a damaged laser diode is lower.



- ▶ Tried and proven adjustable locking screws with precision threads.
- ▶ Simple, compact and easy to use, with universal adjustable mount.
- ▶ Robust hard wearing metal-housing, waterproof.
- ▶ Vacuum filled with dry nitrogen = condensation free optics.
- ▶ Easy to replace front window, tilting down to avoid falling debris.
- ▶ New high quality optic giving an operating range over 600m.
- ▶ Standard UNC 5/8" thread plus 1" dia. bolt mount.
- ▶ Cable for 12-30VDC optional 110-230VAC, 50-60Hz
- ▶ Inbuilt polarity protection, very low current draw <math>< 50\text{mA}</math> / 12V. This equals more than a months use with a standard car battery.



## DURABILITY

The T8 is engineered for durability. Its thick-walled aluminium housing can take abuse. The optics are protected against blast rock damage by a thick optical glass, that is easy to replace in case of damage. The alignment mechanism is over-dimensioned

to give further protection against damage. The T8 is fully water and dust proof, and is purged with nitrogen to avoid condensation on the optics.

## POWER

The T8 comes in two power versions, 12VDC and 110-230VAC. The 12VDC version draws less than 50mA, compared to 1A for the previous T810. This means that a car battery will power the T8 for over 1000 hours. It handles 12 to 30VDC, and is

fully protected against accidental polarity switch. Fused with a self resetting thermal fuse. The AC version handles 85 to 264VAC, 47 to 63Hz. Fused with 1,6A slow fuse. Mains filter handles dirty power conditions with high transients.

