

## OUR SERVICES

Due to our experience in micro systems assembly and tritium handling we can offer you the following services or provide you further research and development in the following fields:

### Assembling of micro mechanical and micro optical parts

The laboratories of mb-microtec run a hand assembly line with 10 work stations as well as high tech assembly robots which allow amongst others the monitoring of the dimensions, the brightness and spectral curves of not only trigalights but on any other light emitting component

### Laser glass sealing, glass packing of micro-mechanical/micro optical parts, gases or others

The production line of specially modulated CO<sub>2</sub> lasers are capable of the gas tight sealing of capillaries or glass vessels. This method allows high precision packing of gases or liquids as well as solid micro components or electronics.

### Research and development in the field of GTLS and fibre optics applications

Research and development specifically in the field of optical gun sights which combine the use of a trigalight and fibre optics including improved efficiency of existing systems, on day-night vision optics, on wave guide optics and more.

### Radiation safety consulting

Our specialists will gladly give you support for licensing issues, planning of laboratory layouts, advice on the equipment needed for the safe handling of isotopes (mainly tritium and carbon 14) as well as tritium waste treatment and disposal (Switzerland only) including IATA DGR conform packing.

### Component testing as to ANSI N43.4-2005 mil. spec. standard

Our test laboratory provides the possibility to run tests in accordance to Military specifications, such as ANSI N43.4 or N540, as well as to ISO 2919 standards. Please do not hesitate to request an individual quote.

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SWISS MADE

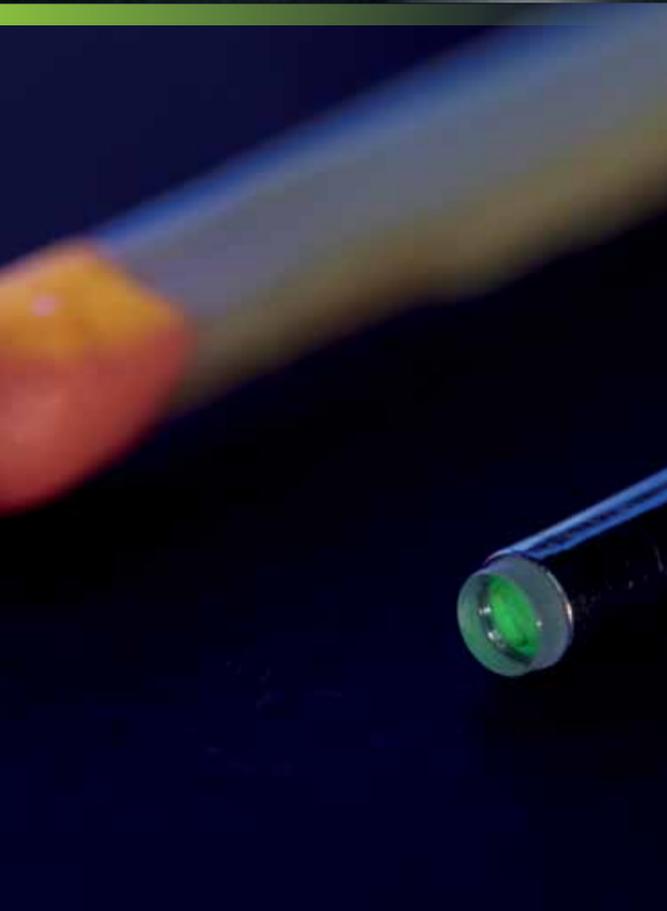
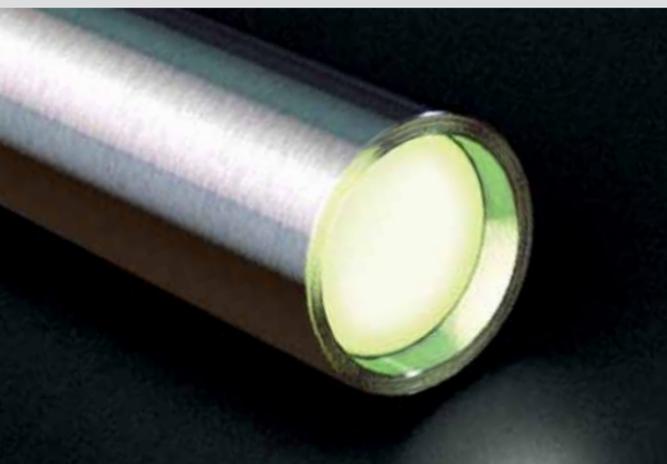
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mb-microtec  
self activated illumination

TACTICAL INSERTS  
PRODUCT INFORMATION

# TRIGALIGHT® TACTICAL INSERTS

trigalight inserts are metal sleeved, sapphire crystal protected trigalights. The so called tactical inserts find wide application within the gun sight illumination sector. Their absolutely outstanding reliability which requires no external power source has even greater benefits when it comes to after sales costs, compactness and durability. All tactical inserts are tested to withstand extreme shock and weather conditions and come with a 10 year illumination warranty.



## TACTICAL INSERTS (AXIAL)

Tactical inserts can be used at temperatures ranging from -94 deg. Fahrenheit to 250 deg. Fahrenheit, not only for a short period but for several years if needed.

Axial inserts are especially the first choice for gun sight illumination on small arms. T 4500 model is designed for the use on assault rifles and machine guns. The protective sapphire is additionally held in place by the crimped sleeve.

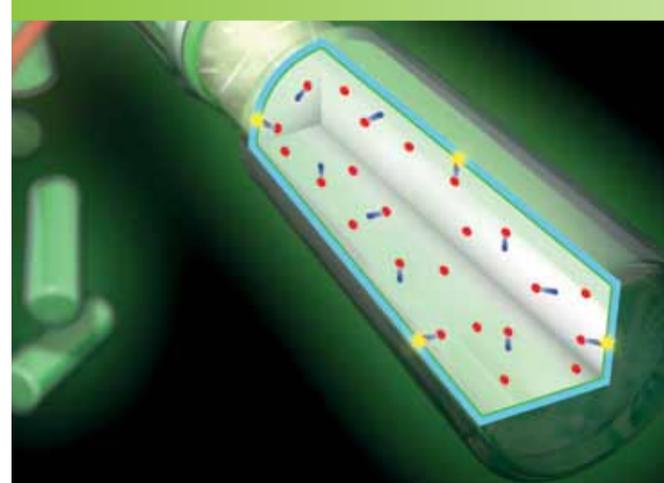
Model T 5130 is fitted with two sapphire crystals and is therefore optimal for the use on adjustable front sights. All Models with fixed sapphire are used to generate a coloured ring (mainly white) by inlaying paint in the gap between the crystal and the metal part of the front sight.



Reference	Dim. øxL [mm]	Sleeve Material/ Lens	Specials	Activity [GBq] +/- 20%
T 4500	2.6x10.0	Aluminium/ sapphire	crimped, high temp. resistant	0.48
T 4440	1.9x9.0	Aluminium/ sapphire	crimped, high temp. resistant	0.74
T 4962	1.9x7.0	Aluminium/ sapphire	sapphire not floating	0.66
T 4963	1.9x6.8	Aluminium/ sapphire	sapphire not floating	0.66
T 4582	1.9x6.5	Aluminium/ sapphire		0.66
T 4583	1.9x6.5	Aluminium/ sapphire	sapphire not floating	0.66
T 5130	1.7x5.2	Aluminium/ sapphire	double side open (2 sapphire)	0.55
T 4367	1.5x5.0	Aluminium/ sapphire		0.22
T 4964	1.5x5.1	Aluminium/ sapphire	sapphire not floating	0.22
T 5290	1.0x4.0	Aluminium/ sapphire		0.07



For further information scan our QR-code with your mobile device.  
A free App (mobiletag) available for iPhone



## TACTICAL INSERTS (RADIAL)

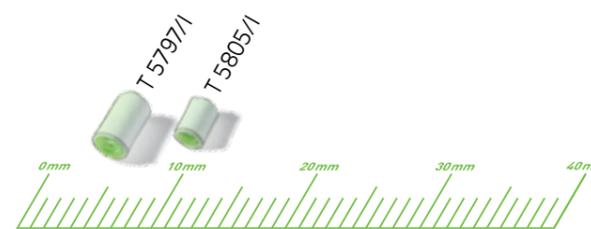
A radial inserted trigalight makes these tactical insert shorter in length and therefore optimal for all places which need a compact and most resistant application of illumination. Traditionally radial inserts are used in watch bezels or as Position markers on scope turrets.



Reference	øxL(mm) [mm]	Sleeve Material/ Lens	Activity [GBq] +/- 20%
T 4785	3.6x3.8	Aluminium/sapphire	0.09
T 4030	3.85x2.5	Aluminium/sapphire	0.22
T 5491	2.7x2.15	Stainless steel/sapphire	0.03
T 5090	2.7x2.0	German Silver/sapphire	0.05
T 5080	2.7x2.0	Aluminium/sapphire	0.05
T 5489a	2.0x1.75	Stainless steel/sapphire	0.03
T 5489	2.0x1.65	German Silver/ sapphire	0.03

## TACTICAL INSERTS (ECONOMY)

These special plastic sleeved inserts provide a perfect length/diameter ratio, as the length of the trigalight used is only twice its diameter. The white sleeve provides additional reflection and shock protection. Installed in gun sights, the sleeve appears as white ring and provides perfect day visibility. The sights are installed using a permanent elastic silicone glue and if required a protective lens using a glass clear UV-curing glue.



Reference	øxL [mm]	Sleeve Material	Activity [GBq]
T 5797/I	2.0x4.0	plastic	0.000
T 5805/I	1.5x3.0	plastic	0.000

