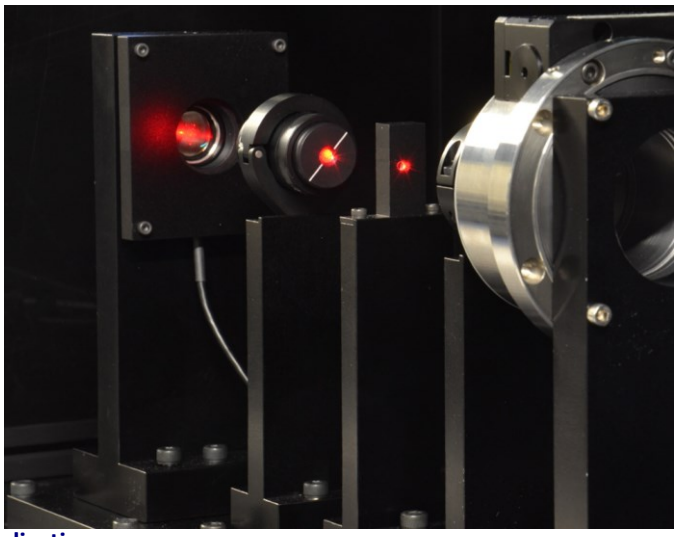
OPTICAL COMPONENTS CONTROL BENCHES – TREE

TRRE BENCHES

VALIDATION, RECEIPE, ACCEPTANCE OF PRODUCTION OPTICAL PARTS

DESCRIPTION

AdvEOTec's TREE benches (**T**ransmission, **R**eflection, **E**fficiency or **E**xtinction measurement) are designed for users and manufacturers of optical components. This range of benches was designed to characterize and validate cubic, cylindrical and prismatic optical parts up to a few cm in length.
Each bench is equipped with sources, detectors, parts support, safety systems, measurements software.



Specially designed for use in cleanrooms, they can be dismantled and easily cleaned thanks to their dedicated interfaces and supports. Operator handling is quick and easy: component loading, manual or automated optical alignment, file-based measurement configuration, results archiving, etc.
These benches are designed, built, assembled in our workshops and controlled by our laboratories.

Components to be measured

Optical parts : Optical guides
Non-linear optics (crystals)
Sources and detectors

Applications

Verification of optical components performance
Manufacturers and users of optical components as standards
Study laboratories and making of specific parts

MAIN CHARACTERISTICS

Specifications *(according to configuration)*

- 2-position angular displacement (transmission and reflection)
- Micro-displacement X, Y, Z alignment and rotation
- Systems : Lasers, photodiodes, filters, polarizers…
- Thermal support with temperature regulation
- Measurement and control instrumentation cabinet
- Optical platform with hood and safety device

Advantages

Two modes of use :

- Bench of components performance control
- GO/NOGO bench of verification of the components according to specifications

Ergonomics: Quick and easy to use, flexible thanks to quick-change brackets on precision baseplate
Control by dedicated software / Fast measurement and archiving

TYPE	DESCRIPTION	TYPE	DESCRIPTION
Measurements	Transmission, Reflection Efficiency (Optical conversion efficiency) Extinction Ratio (polarized luminaire)	**Precision**	1% to 0.05% depending on range and configuration 0,5dB depending on range and configuration
Wavelength	Visible to near infrared 380nm to 1600nm	**Measurement duration**	Optimized: from configuration to measurement validation

Safety & Training

AdvEOTec offers a training and implementation assistance. The benches meet laser safety requirements.

Control

The benches are controlled by our softwares, which can be adapted to each need (Visual Studio). Measurement files are available in text format, making them easy to use : results processing, production management, etc...
**Other configurations, contact us…*

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