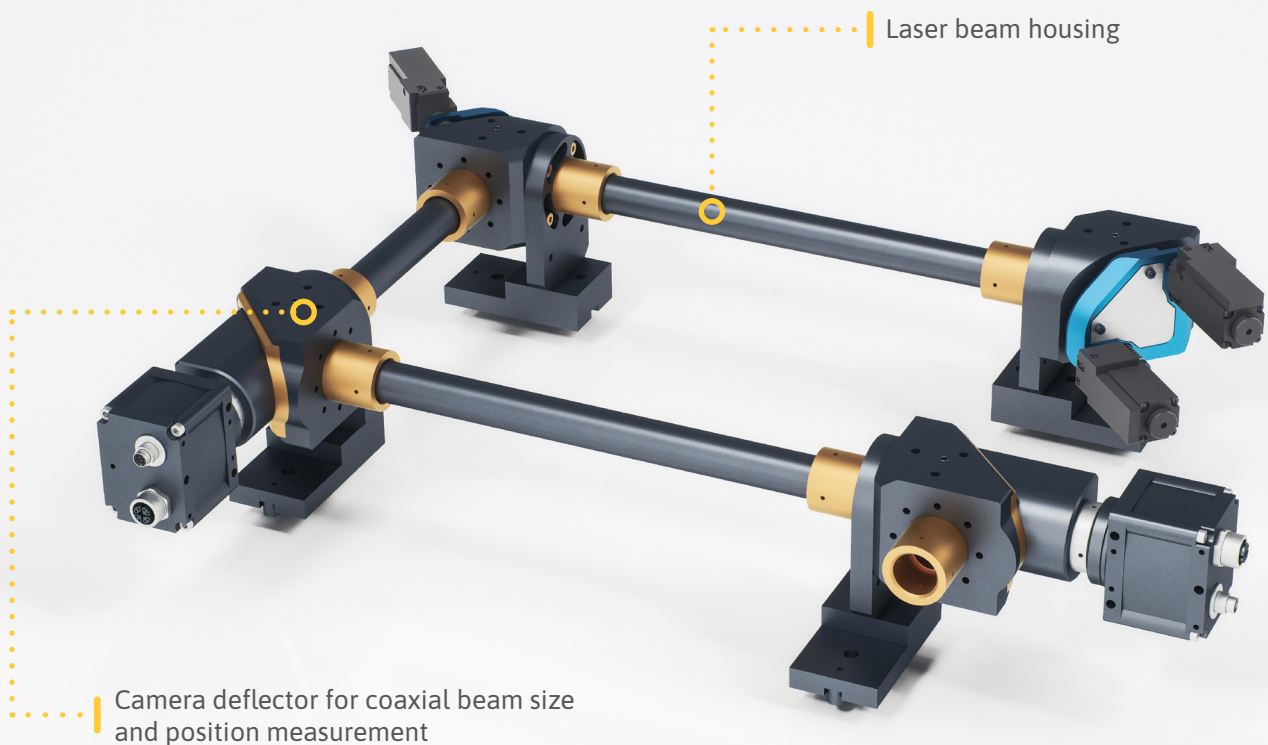


Beam Alignment Module – BAM-G1

Constant quality under industrial conditions



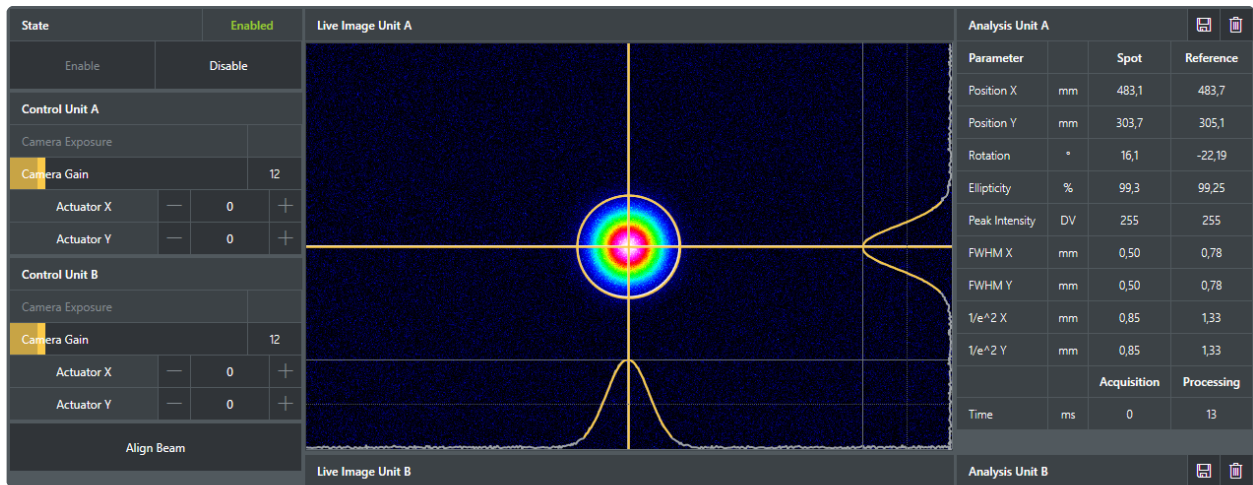
Beam Alignment Module

The Beam Alignment Module (BAM) from Pulsar Photonics is a modular solution for active beam position stabilization. Effects on the beam position due to e.g. pointing errors and thermal effects of laser sources or fluctuations of the ambient temperature can be measured and actively compensated. Thus, constant process results are possible even under fluctuating conditions.

Due to its modular design, the BAM can be flexibly adapted to different machine types, designs and applications. Furthermore, the connection of a gas or overpressure purge and the use of the Pulsar Tube System can guarantee a high degree of dust-free operation, making the module suitable for laser sources with high pulse energy and high beam quality.

Beam parameters

Software Module for Beam Alignment Module - Beam position and beam shape always in focus



In addition to the right hardware, the right software is also required for optimum control of your beam position.

In the BAM software module, not only can the correction of the beam position be activated and monitored, but the beam position can also be adjusted manually.

Due to the camera-based mode of operation of the BAM, the software determines numerous other beam parameters in addition to the position of the laser beam on the camera:

- Rotation
- Ellipticity
- FWHM diameter
- 1/e² Diameter

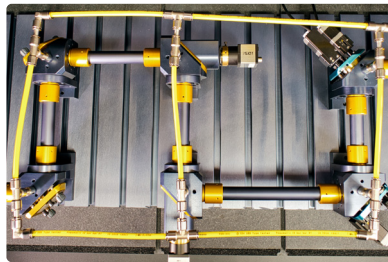
Application examples

Expandability



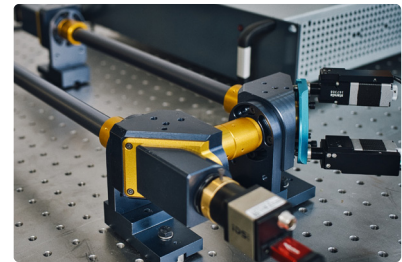
Separate control of different wavelengths and installation of several beam layers per system possible.

Beam encapsulation



Compatibility with the Pulsar Tube System and connection option for gas or positive pressure flushing guarantee dust-free operation.

Modular system



Modular system compatible with different application scenarios, also for use on optical table.

manufactured by

PULSAR
PHOTONICS
a schunk company

distributed by

SCANLAB
innovators for industry

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SCANLAB and Pulsar Photonics collaborate in a sales and development partnership.

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