Laser Beam Stabilization System

The limited pointing stability of high power laser systems is a question of major concern, since fluctuations of the lateral or angular beam position can cause tremendous problems especially in industrial applications. For compensation of drift effects a Laser Beam Stabilization System was developed, which may be utilized for stabilization and realignment of practically all lasers operating in the UV-VIS-NIR spectral range.

Characteristics:

► Piezo driven adaptive mirror
► Closed-loop tip/tilt correction
► Pointing stability: < 1 μrad

Specifications

► Accuracy: < 50 mrad
► Max. beam diameter: 40 mm
► Max. divergence : 10 mrad
► Wavelengths from 190 to 1100 nm