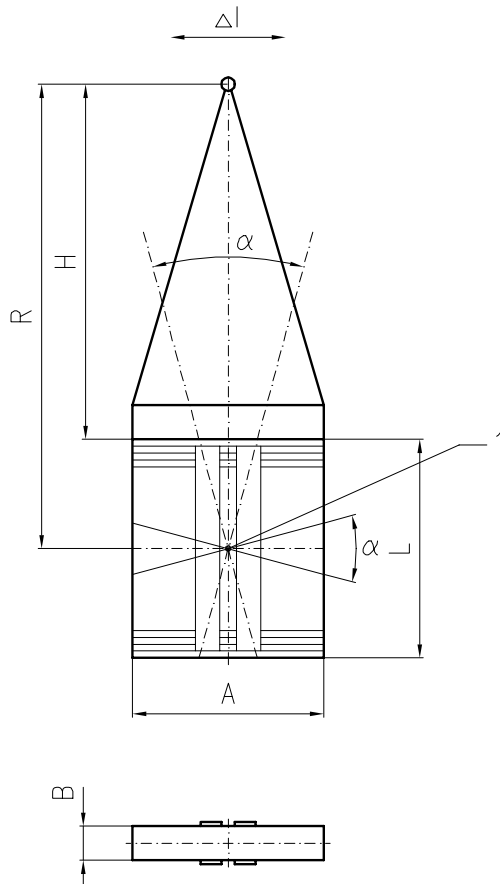


Torque-Block® technical information for customer-specific applications



In a ceramic laminate, separately controllable drive units are mounted by integrated electrode-structuring. Preliminary mechanical stress required for dynamic operation and tensile strain does not interact with operating functions. The simple structure and high reliability are achieved by reduction of load on the outside contact paths as well as absence of complicated eroded deflectors. The transformation of the translation into a tilted angle takes place directly in the laminate, and can be read at the end of the lever. Displacement and stiffness can be varied by setting the lever length H , the block height L and the block section. Hardware components of the *ase/nvs* system or of the unit *asy/hyw/e* deal with antisymmetric electric control.

Technical Data for a standard Torque-Block®

Length L	16 mm
Width A	14 mm
Depth B	2.5 mm
Preliminary mechanical stress	1 kN
Operating voltage	400 V
Capacity	$2 \times 0.5 \mu\text{F}$

Block-Specific Data

Tilt angle	± 0.17 deg
Blocking moment	6.8 Nm
Tilt stiffness	20 Nm/deg

The following applies for a lever with length $H = 26$

Rotation radius R	34 mm
Displacement Δl	$\pm 100 \mu\text{m}$
Blocking force	200 N
Resonance frequency	4.4 kHz
Resonance frequency with 2 g weight added	3.0 kHz

Application

- Valve drives
- One-axis and multi-axes positioning systems
- High-dynamic tilted-mirror systems