

hexaCUBE 190

integrated 6D motion solution

Technical Specifications

Technology

travel mechanism six ECS/HL linear piezo positioners

Size and Dimensions

footprint; height 190 x 180; 105 mm
maximum size 220 x 210; 125 mm
aperture 26 mm (1 inch)

Physical Properties

positioner body aluminum, stainless steel, plastic
weight 1.95 kg
stiffness x 1 N/ μ m
stiffness y 1 N/ μ m
stiffness z 3 N/ μ m

Load (@ ambient conditions)

maximum load 7 N (700 g)

Mounting

from the top 3 through holes for M6 screws
load on top 24 threads M2

Working Conditions

temperature range 0 .. 100 °C
minimum pressure ambient

Article Numbers

/RT version 1009493
/HV version on request
/UHV version on request

Travel Range

linear x ± 15 mm
linear y ± 15 mm
linear z ± 20 mm
rotational Θ_x $+33^\circ/-19^\circ$
rotational Θ_y $\pm 21^\circ$
rotational Θ_z $\pm 19^\circ$

Accuracy of Movement

linear repeatability x 50 nm
linear repeatability y 50 nm
linear repeatability z 50 nm
rotational repeatability Θ_x 1 μ rad
rotational repeatability y 1 μ rad
rotational repeatability z 1 μ rad

Compatibility with Electronics

ECC100 piezo positioning controller two ECC100/PRO versions required

Position Encoder

integrated encoders optoelectronic

Technical Drawings

side



top view



3d view

