



SMARPOD 110.45

The SMARPOD 110.45 is a mid-size hexapod-like positioning system. Because of its larger travel ranges it is extremely versatile. Optionally, the base plate can be equipped with mounting posts for tools, components or sensors, converting the positioning system to a core device for micro assembly and any other application involving precise alignment.

Like other SmarAct SMARPOD's, the 110.45 is also available in a high vacuum and ultra-high vacuum version or made out of fully non-magnetic materials. The middle sized SMARPOD 110.45 is able to position payloads of up to 5 N with 6 DoF.

	Mechanical
Travel [mm]	20 (X); 20 (Y); 10 (Z)
Travel [°]	21 (Θx); 24 (Θy); 38 (Θz)
Max. Normal Force [N]	5
Max. Horizontal Force [N]	2.5
Dimensions [mm]	Ø 110
Height of Platform above Ground [mm]	45
Weight [g]	400
	Closed-Loop
Sensor Types	S; SC
Smallest Increment [nm]	1
Smallest Increment [μrad]	1
Closed-Loop Repeatability, Full Stroke MCS2 [nm]	< ± 200
Closed-Loop Repeatability, 1 mm Travel MCS2 [nm]	< ± 10
Closed-Loop Repeatability, Full Stroke MCS2 [μrad]	< ± 15
	Options
Vacuum Options	HV (1E-6 mbar); UHV / UHVT (1E-11 mbar)
Non-Magnetic Option	Yes (-NM)